

WE MAKE  
INNOVATION  
/ 2024



 **newstark**<sup>®</sup>  
INNOVATIVE METAL SOLUTIONS



Unità molto precisa, compatta e potente.  
Accurate, compact and powerful unit.  
Einheit sehr präzise, kompakt und leistungsstark.



Unità molto precisa.  
Accurate unit.  
Einheit sehr präzise.



Velocità regolabile.  
Adjustable speed.  
Regulierbare Geschwindigkeit.



Innovativo sistema antirotativo.  
Anti-rotation system.  
Anti-Rotation System.



Prodotto in 3/4 giorni per i modelli 1500-3000.  
Product in 3/4 days for the models 1500-3000.  
Produkt in 3/4 Tage für die Modelle 1500-3000.



Prodotto in 3 settimane.  
Product in 3 weeks.  
Produkt in 3 Wochen.



Prodotto speciale in 40 giorni.  
Special Product in 40 days.  
Spezielle Produkt in 40 Tagen zur Verfügung.



Prodotto a magazzino.  
Product on stock.  
Produkt auf Lager.



Prodotto a magazzino per i modelli 400-900.  
Product on stock for the models 400-900.  
Produkt auf Lager für die Modelle 400-900.



Inclinabile su 2 assi.  
2 axis slope.  
Neigung von 2-Achsen.



Bilanciamento dello stampo.  
Balance of the die.  
Gleichgewicht der Werkzeuge.



Prezzo competitivo.  
Competitive price.  
Wettbewerbsfähigen Preis.



Utilizzo aria compressa 2-5 BAR.  
Use compressed air.  
Verwendung von Druckluft 2-5 BAR.



Riduzione dei danni durante le manutenzioni.  
Damage reduction of during maintenance.  
Reduzierung von Schäden bei der Wartung.



Uso diretto sotto la pressa.  
Direct use under the press.  
Direkte Verwendung in der Presse.



Facilità di smontaggio e manutenzione.  
Easiness of disassembly and maintenance.  
Einfachheit der Demontage und Wartung.



Facilità di applicazione e regolazione dei scivoli sulla slitta.  
Easiness of application and regulation of metal plates on the slide.  
Je nach Anforderungen können Transportbleche unterschiedlicher Abmessungen angebracht werden.



Facilità nella manutenzione.  
Easy maintenance.  
Einfache Wartung.



Dispositivo con alimentazione in bassa tensione, 24V / 2A.  
Device with low voltage power supply, 24V / 2A.  
Niederspannungsgerät, 24V / 2A.



Presenza di punti di fissaggio.  
Presence of fixing points.  
Befestigungspunkte.



Grande potenza di estrazione.  
Great power of extraction.  
Sehr hohe Abstreifkräfte.



Corsa lunga.  
Long stroke.  
Leistungsstarker Hub.



Materiali di alta qualità.  
High quality materials.  
Hochwertige Materialien.



Operatività garantita in orizzontale.  
Horizontal travel guaranteed.  
Arbeitsweise in der horizontalen Position garantiert.



Intercambiabilità.  
Interchangeability.  
Austauschbarkeit.



Lunga durata.  
Long duration.  
Lange Lebensdauer.



Basso consumo.  
Low power consumption.  
Geringer Verbrauch.



Lubrificare con olio adeguato.  
Lubricate with appropriate oil.  
Mit geeignetem Öl schmieren.



Prodotto disegnato e realizzato in Italia da Newstark.  
Product designed and manufactured in Italy by Newstark.  
Produkt konstruiert und hergestellt in Italien von Newstark.



Velocità massima: 40 colpi al minuto.  
Maximum speed: 40 strokes per minute.  
Höchstgeschwindigkeit: 40 Hube pro Minute.



Velocità massima: 50 colpi al minuto.  
Maximum speed: 50 strokes per minute.  
Höchstgeschwindigkeit: 50 Hube pro Minute.



Inclinazione minima.  
Minimum inclination.  
Minimale Neigung.



Rumorosità minima.  
Minimum noise.  
Geräuscharm.





### **NEWSTARK, PER SPINGERSI OLTRE**

Il nome Newstark è nato per essere leader nell'innovazione di componenti ad alte prestazioni per stampi. Partner ideale per garantirvi soluzioni tecnologicamente avanzate, con un know-how tecnico specifico, in sintonia con le vostre esigenze di performance e qualità. Newstark, brand di Essemec S.r.l. Unipersonale, azienda con ventennale esperienza nel settore metalmeccanico, rappresenta così la fusione tra tradizione-meccanica ed innovazione tecnologica.

### **NEWSTARK, TO GO FURTHER**

The name of Newstark was born to be leader in innovation of high performance components for dies. Ideal partner to ensure technologically advanced solutions, with specific technical know-how according with your needs for performance and quality. Newstark, a brand of Essemec S.r.l. Unipersonale, company with twenty years experience in metal mechanic, thus represents the fusion of tradition-mechanical and technological innovation.

### **NEWSTARK, UM GRENZEN ZU ÜBERSCHREITEN**

Der Name Newstark steht für Hochleistungskomponenten in Werkzeugen und ist damit der ideale Partner für fortschrittliche Lösungen mit besonderem technischen Know-How, der Ihren Ansprüchen an Leistung und Qualität gerecht wird. Newstark ist ein registrierter Markenname von Essemec S.r.l. Unipersonale, einem Unternehmen mit zwanzig Jahren Erfahrung im Maschinenbau, und vereint Maschinenbautradition mit Innovation.

### **NEWSTARK, POUR ALLER PLUS LOIN**

Le nom Newstark est né pour être un leader dans l'innovation de composants pour outils de découpe à haute performance. C'est le partenaire idéal pour vous garantir des solutions technologiquement avancées, avec un savoir-faire technique spécifique, en accord avec vos exigences de performance et de qualité. Newstark, marque d'Essemec S.r.l. Unipersonnel, une entreprise ayant vingt ans d'expérience dans le secteur de la métallurgie, représente donc la fusion entre la tradition-mécanique et l'innovation technologique.



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# CAMS

TRANCIATURA MECCANICA / FORATURA / PIEGATURA  
MECHANIC SHEARING / DRILLING / BENDING  
MECHANISCHE STANZEINHEIT-SCHIEBER / PRÄGEN / BIEGEN  
TRANCHAGE MÉCANIQUE / PERÇAGE / PLIAGE

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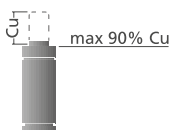
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# CAMS

|  | MAE | MASE | SMEG | SUPER<br>SMEG | M/ML | MA | MAS | MASC | MASC<br>COMPACT | ROLLER |
|--|-----|------|------|---------------|------|----|-----|------|-----------------|--------|
| <b>PORTA PUNZONE / PUNCH HOLDER / STEMPELHALTER / PORTE-POINÇON</b>                                  |     |      |      |               |      |    |     |      |                 |        |
| PUNZONE / PUNCH / STEMPEL / POINÇON  | ●   | ●    | ●    |               | ●    |    |     |      |                 |        |
| PREMILAMIERA / STRIPPER / BLECHHALTER / SERRE-FLAN<br>GOMMA-PU / GUMMY-PU / PU-FEDER / CAOUTCHOUC-PU |     |      |      |               | ●    |    |     |      |                 |        |
| MOLLA A GAS / GAS SPRING / GASDRUCKFEDER / RESSORT À GAZ   | ●   | ●    | ●    |               |      |    |     |      |                 |        |
| PIASTRA PORTA PUNZONE / PUNCH HOLDER PLATE / STEMPELHATTEPLATTE<br>PLAQUE PORTE-POINÇON              |     |      |      | ●             |      | ●  | ●   | ●    | ●               | ●      |
| <b>TRASMISSIONE D'ENERGIA / POWER TRANSMISSION / KRAFTÜBERTRAGUNG / TRANSMISSION D'ÉNERGIE</b>       |     |      |      |               |      |    |     |      |                 |        |
| LEVA / LEVER / NOCKEN / LEVIER   |     |      |      |               | ●    |    |     |      |                 |        |
| LEVA-ROLL / LEVER-ROLL / ROLLNOCKEN / LEVIER-ROLL  | ●   |      |      |               |      | ●  |     |      |                 |        |
| BATTENTE / PESTLE / KEIL / BATTANT   |     | ●    | ●    | ●             |      |    | ●   | ●    | ●               |        |
| BATTENTE-ROLL / PESTLE-ROLL / ROLLKEIL / BATTANT-ROLL  |     |      |      |               |      |    |     |      |                 | ●      |
| <b>RITORNO / RETREAT / RÜCKZUG / RETOUR</b>  |     |      |      |               |      |    |     |      |                 |        |
| MOLLA DI ACCIAIO / METAL SPRING / DRAHTFEDER / RESSORT EN ACIER                                      |     |      | ●    |               | ●    |    |     |      |                 |        |
| MOLLA A GAS / GAS SPRING / GASDRUCKFEDER / RESSORT À GAZ   | ●   | ●    |      | ●             |      | ●  | ●   | ●    | ●               | ●      |
| <b>FORZA DI LAVORO / THE WORKING FORCE / ÜBERTRAGBARE KRAFT / FORCE D'USINAGE</b>                    |     |      |      |               |      |    |     |      |                 |        |
| FINO A / TO / BIS / JUSQU'À 5000 DAN   | ●   | ●    | ●    |               | ●    | ●  | ●   | ●    | ●               | ●      |
| FINO A / TO / BIS / JUSQU'À 10000 DAN  | ●   | ●    | ●    |               |      | ●  | ●   | ●    | ●               | ●      |
| FINO A / TO / BIS / JUSQU'À 19000 DAN  | ●   | ●    | ●    |               |      |    | ●   | ●    | ●               | ●      |
| FINO A / TO / BIS / JUSQU'À 25000 DAN  | ●   | ●    | ●    |               |      |    |     |      |                 | ●      |
| FINO A / TO / BIS / JUSQU'À 30000 DAN  | ●   | ●    | ●    |               |      |    |     |      |                 |        |
| FINO A / TO / BIS / JUSQU'À 40000 DAN  |     |      |      |               |      |    |     |      |                 |        |
| FINO A / TO / BIS / JUSQU'À 60000 DAN  |     |      |      | ●             |      |    |     |      |                 |        |

# SICUREZZA

SAFETY / SICHERHEIT / SÉCURITÉ



## SICUREZZA / SAFETY / SICHERHEIT / SÉCURITÉ

EVITARE QUALSIASI MODIFICA MECCANICA. / AVOID ANY MECHANICAL MODIFICATION. / VERMEIDEN SIE MECHANISCHE ÄNDERUNGEN. / ÉVITER TOUTE MODIFICATION MÉCANIQUE.

UTILIZZARE DISPOSITIVI DI SICUREZZA INDIVIDUALI QUALI: OCCHIALI E GUANTI. / USE PERSONAL SAFETY EQUIPMENT SUCH AS: GOGGLES AND GLOVES.  
BENUTZEN SIE PERSÖNLICHE. / SCHUTZAUSRÜSTUNG, WIE: SCHUTZBRILLE UND HANDSCHUHE. / UTILISER DES ÉQUIPEMENTS DE SÉCURITÉ INDIVIDUELS TELS QUE: LUNETTES ET GANTS.

NON DISATTIVARE I DISPOSITIVI ELETTRONICI DI SICUREZZA (SE PRESENTI). / DO NOT SWITCH OFF THE ELECTRONIC SAFETY DEVICES (IF ANY). / SCHALTEN SIE NICHT DIE ELEKTRONISCHE SICHERHEITSEINRICHTUNGEN (FALLSVORHANDEN). / NE PAS DÉACTIVER LES DISPOSITIFS DE SÉCURITÉ ÉLECTRONIQUES (S'IL Y EN A).

UTILIZZARE SOLO RICAMBI ORIGINALI. / USE ONLY ORIGINAL SPARE PARTS. / VERWENDEN SIE NUR ORIGINAL-ERSATZTEILE. / N'UTILISER QUE DES PIÈCES DE RECHANGE D'ORIGINE.

ATTENZIONE: NELLA NOSTRA ATTREZZATURA È PRESENTE UN CILINDRO A GAS IN PRESSIONE! SI PREGA DI CONSULTARE IL NOSTRO MANUALE DI USO E MANUTENZIONE!  
ATTENTION: IN OUR EQUIPMENT IS PRESENT A GAS CYLINDER UNDER PRESSURE! PLEASE REFER TO OUR INSTRUCTION MANUAL.  
ACHTUNG: IN UNSEREN ANLAGEN GIBT ES GASDRUCKFEDER, DER UNTER HOHEM DRUCK STEHT! BITTE KONSULTIEREN SIE UNSERE WARTUNGSANWEISUNG!  
ATTENTION: UN CYLINDRE À GAZ SOUS PRESSION EST PRÉSENT DANS NOTRE ÉQUIPEMENT! CONSULTER NOTRE MANUEL D'UTILISATION ET DE MAINTENANCE!

TUTTI I CILINDRI HANNO UNA CORSA DICHIARATA DAL COSTRUTTORE. QUINDI IL VALORE NOMINALE CU È COMPLETAMENTE UTILIZZABILE. SI RACCOMANDA QUINDI DI NON ECCEDERE DALLA CORSA MASSIMA DICHIARATA NEL CATALOGO PER PREVENIRE EVENTUALI EXTRACORSE, CAUSATE DA MODIFICHE O ERRORI SUGLI STAMPI, CON DANNI IRREPARABILI ALLE CAM E GRAVI RISCHI PER LA SICUREZZA.

ALL NITROGEN CYLINDERS HAVE A STROKE STATED BY THE MANUFACTURER. THEREFORE THE NOMINAL VALUE (CU) IS FULLY APPLICABLE. HOWEVER, IT IS RECOMMENDED NOT TO EXCEED THE MAXIMUM STATED ON THE RACE CATALOG IN ORDER TO AVOID THE RISK OF ANY EXTRA STROKE CAUSED BY CHANGES OR ERRORS IN TOOLS. THIS WOULD RESULT IN IRREPARABLE DAMAGES TO THE CAMS AND SERIOUS DANGER TO PERSONNEL.

ALLE ZYLINDER SIND MIT EINER HUB VOM HERSTELLER ANGEGBENEN. DAHER KANN DER NENNWERT CU KOMPLETT VERWENDET WERDEN. WIR EMPFEHLEN, AUF DIE MAXIMAL AUF DAS RENNEN ANGEGBENEN NICHT ZU ÜBERSCHREITEN, UM EINEN EVENTUELLEN ÜBERLAUF ZU VERMEIDEN, DER DURCH ÄNDERUNGEN ODER FEHLER AN DEN PRESSFORMER VERURSACHT WERDEN UND IRREPARABLE SCHÄDEN AN DEN STANZEINHEITEN SOWIE SCHWERWIEGENDE SICHERHEITSRISIKOS HERRORRUFEN KÖNNTE.

TOUS LES CYLINDRES ONT UNE COURSE INDIQUÉE PAR LE FABRICANT. LA VALEUR NOMINALE CU EST DONC PLEINEMENT UTILISABLE. IL EST DONC RECOMMANDÉ DE NE PAS DÉPASSER LA COURSE MAXIMALE INDIQUÉE DANS LE CATALOGUE AFIN D'ÉVITER D'ÉVENTUELLES SURCOURSES, DUES À DES MODIFICATIONS OU DES ERREURS SUR LES OUTILS DE DÉCOUPE, AVEC DES DOMMAGES IRRÉPARABLES AUX CAMES ET DES RISQUES GRAVES POUR LA SÉCURITÉ.

DURANTE IL CARICAMENTO NON ECCEDERE LA PRESSIONE MASSIMA RACCOMANDATA PER OGNI MODELLO. / WHEN CHARGING DO NOT EXCEED THE MAXIMUM RECOMMENDED PRESSURE FOR EACH MODEL. / ÜBERSCHREITEN SIE WÄHREND DER LADUNG DEN FÜR JEDES MODELL ANGEGBENEN DRUCKWERT NICHT. / LORS DU CHARGEMENT, NE PAS DÉPASSER LA PRESSION MAXIMALE RECOMMANDÉE POUR CHAQUE MODÈLE.

DURANTE LO SCARICAMENTO CON L'USO DEL DISPOSITIVO DDS, ORIENTARE IL FLUSSO DEL GAS IN DIREZIONE OPPOSTA ALL'OPERATORE. / WHEN DISCHARGING USING A DDS DEVICE, POINT THE GAS FLOW AWAY FROM OPERATOR. / RICHTEN SIE DEN GASFLUSS WÄHREND DER ENTLADUNG MIT HILFE DER DDS-VORRICHTUNG IN DIE DEM BEDIENER ENTGEGENGESETZTE RICHTUNG. / LORS DU DÉCHARGEMENT À L'AIDE DU DISPOSITIF DDS, ORIENTER LE FLUX DE GAZ DANS LA DIRECTION OPPOSÉE À CELLE DE L'OPÉRATEUR.

EVITARE QUALSIASI LAVORAZIONE MECCANICA O IMPATTO SU CORPO E STELO. / AVOID ANY MECHANICAL TOOLING OR IMPACT ON THE BODY AND THE ROD.  
VERMEIDEN SIE MECHANISCHE BEARBEITUNGEN JEDER ART ODER SONSTIGE EINWIRKUNGEN AUF KÖRPER UND KOLBENSTANGE. / ÉVITER TOUT USINAGE MÉCANIQUE OU IMPACT SUR LE CORPS ET LA TIGE.

DURANTE IL CARICAMENTO ASSICURARSI CHE LO STELO SIA ESTRATTO AL 100%. PER CILINDRI PRIVI DI FORO FILETTATO SULLO STELO, CARICARE INIZIALMENTE CON 5 BAR (75 PSI) PER ESTRARRE COMPLETAMENTE LO STELO, QUINDI PROCEDERE FINO ALLA PRESSIONE DESIDERATA.

ENSURE THAT THE ROD IS 100% EXTRACTED WHEN CHARGING. FOR CYLINDERS WITHOUT A THREADED HOLE ON THE ROD, INITIALLY CHARGE TO 5 BAR (75 PSI) TO EXTRACT THE ROD COMPLETELY THEN CHARGE TO THE REQUIRED.

STELLEN SIE WÄHREND DER LADUNG SICHER, DASS DER SCHAFT GANZ AUSGEFAHREN IST. FÜR ZYLINDER OHNE GEWINDEBOHRUNG AM SCHAFT LADEN SIE DEN DRUCK ZU BEGINN BEI 5 BAR (75 PSI), UM DEN SCHAFT GANZ HERAUSZUZIEHEN. STEIGERN SIE DEN DRUCK DANACH AUF DEN GEWÜNSCHTEN WERT.

LORS DU CHARGEMENT, S'ASSURER QUE LA TIGE EST EXTRAITE À 100%. POUR LES CYLINDRES SANS TROU FILETÉ SUR LA TIGE, IL FAUT D'ABORD CHARGER AVEC 5 BAR (75 PSI) POUR EXTRAIRE COMPLÈTEMENT LA TIGE, PUIS PROCÉDER À LA PRESSION SOUHAITÉE.

SOLO PERSONALE QUALIFICATO DOVREBBE ESEGUIRE LA MANUTENZIONE. EVENTUALI ERRORI POSSONO ESSERE CAUSA DI GRAVI RISCHI PER LA SICUREZZA O LIMITARE LA DURATA DEI CILINDRI. PRIMA DI ESEGUIRE QUALSIASI INTERVENTO SCARICARE COMPLETAMENTE LA PRESSIONE E ASSICURARE CHE LO STELO SIA COMPLETAMENTE COMPRESSO NEL CORPO.

MAINTENANCE MUST ONLY BE CONDUCTED BY QUALIFIED PERSONNEL. ERRORS WOULD CAUSE SERIOUS INJURY OR REDUCE THE WORKING LIFE OF THE CYLINDERS. BEFORE CARRYING OUT ANY WORK ON THE SYSTEM, FULLY RELEASE ALL PRESSURE AND ENSURE THAT THE ROD IS FULLY RETRACTED INTO THE BODY.

DIE WARTUNG SOLLTE NUR VON QUALIFIZIERTEN PERSONAL VORGENOMMEN WERDEN. ETWAIGE FEHLER KÖNNEN SCHWERWIEGENDE SICHERHEITSRISIKEN HERRORRUFEN ODER DIE LEBENSDAUER DER ZYLINDER EINSCHRÄNKEN. ENTLADEN SIE DEN DRUCK UND STELLEN SIE SICHER, DASS DER SCHAFT KOMPLETT IN DEN KÖRPER EINGEFÜHRT IST, BEVOR SIE EINGRIFFE VORMEHMEN.

SEUL UN PERSONNEL QUALIFIÉ DOIT EFFECTUER LA MAINTENANCE. LES ERREURS PEUVENT ENTRAÎNER DE GRAVES DANGERS POUR LA SÉCURITÉ OU LIMITER LA DURÉE DE VIE DES CYLINDRES. AVANT D'EFFECTUER TOUTE INTERVENTION, RELÂCHER COMPLÈTEMENT LA PRESSION ET S'ASSURER QUE LA TIGE EST ENTIÈREMENT COMPRIMÉE DANS LE CORPS.

PRIMA DI GETTARE QUALSIASI CILINDRO A GAS, SCARICARE COMPLETAMENTE LA PRESSIONE. / BEFORE DISPOSING OF A GAS SPRING CENSURE THAT ALL RESIDUAL PRESSURE IS FULLY EXHAUSTED. / VOR DER ENTSORGUNG EINES GASZYLINDERS MUSS DER DRUCK KOMPLETT ABGELASSEN WERDEN. / AVANT DE JETER UN CYLINDRE À GAZ, VIDER COMPLÈTEMENT LA PRESSION.

SE UN CILINDRO HA LA STRUTTURA DANNEGGIATA, PRIMA DI QUALSIASI MANIPOLAZIONE, SCARICARE COMPLETAMENTE LA PRESSIONE. / IF A CYLINDER HAS STRUCTURAL DAMAGE, FULLY EXHAUST ALL PRESSURE BEFORE ANY FORM OF HANDLING. / WEIST DIE STRUKTUR EINES ZYLINDERS BESCHÄDIGUNGEN AUF, MUSS VOR JEDEM EINGRIFF DER DRUCK KOMPLETT ABGELASSEN WERDEN. / SI UN CYLINDRE A UNE STRUCTURE ENDOMMAGÉE, VIDER COMPLÈTEMENT LA PRESSION AVANT TOUTE MANIPULATION.



ATTENZIONE: SI PREGA DI FARE SEMPRE RIFERIMENTO ALLE NORMATIVE DI SICUREZZA VIGENTI. / ATTENTION: PLEASE ALWAYS REFER TO THE CURRENT SAFETY REGULATIONS. / ACHTUNG: BITTE LESEN SIE IMMER DIE AKTUELLEN SICHERHEITSBESTIMMUNGEN. / ATTENTION: TOUJOURS SE RÉFÉRER AUX RÈGLES DE SÉCURITÉ EN VIGUEUR.



## CAM MAE

- IT** Modello rappresentante il top di gamma della produzione Newstark, che ingloba soluzioni innovative e uniche: sistema di estrazione dell'utensile dalla lamiera mediante azoto integrato nel punzone standard ISO, quindi facilmente reperibile nel mercato, di potenza fino a 30'000 daN., che può essere eventualmente sagomato rispetto a geometrie di tranciatura desiderate. Questa innovazione permette di aumentare in modo esponenziale la durata del prodotto e le possibilità applicative. Può essere montata in posizione orizzontale o inclinata (previo confronto con l'ufficio tecnico Newstark).
- EN** This model represents the top of Newstark's production, range which incorporates market unique and innovative solutions. The system fits an ISO standard direct integrated punch, easily available on the market, that can eventually be shaped to match with required geometries with power up to 30'000 daN. This innovative system enables the increasing of the application possibilities and exponentially allows his life duration. Can be fitted horizontally or inclined (after comparison with Newstark's technical department).
- DE** Das Top-Modell der Newstark Stanzeinheiten mit einzigartigen und innovativen Lösungen. Die integrierte Stanzeinheit mit Gasdruckfederniederhalter. Diese bietet einen herausnehmbaren Niederhalterkopf mit bearbeitbarer Kontur und eine Stempelaufnahmemöglichkeit für ISO 8020- Schneidstempel, auch mit Formansatz bei einer Stanzkraft bis zu 30'000 daN ohne die Baulänge der Stanzeinheit unnötig zu vergrößern. Dieses System ermöglicht im Vergleich zu herkömmlichen Systemen eine bis zu drei mal höhere Abstreifkraft. Geeignete Anwendungen können in Abstimmung mit dem technischen Büro von Newstark ermöglicht werden.
- FR** Modèle représentant le haut de gamme de la production Newstark, qui intègre des solutions innovantes et uniques: système d'extraction de l'outil de la tôle au moyen d'azote intégré dans le poinçon standard ISO, donc facilement disponible sur le marché, d'une puissance allant jusqu'à 30'000 daN, qui peut éventuellement être façonné en fonction des formes de découpage souhaitées. Cette innovation permet une augmentation exponentielle de la durée de vie du produit et des possibilités d'application. Elle peut être montée en position horizontale ou inclinée (après discussion avec le bureau technique Newstark).



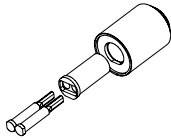
### PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE





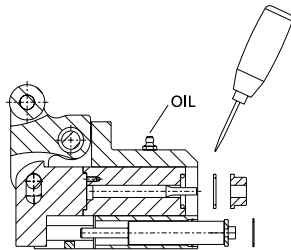
# CAM MAE

ESEMPI DI APPLICAZIONI SPECIALI / EXAMPLES OF SPECIAL APPLICATIONS / BEISPIELE FÜR SPEZIELLE ANWENDUNGEN  
EXEMPLE D'APPLICATIONS SPÉCIALES



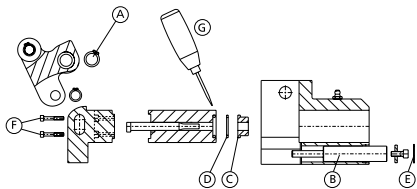
- !** È possibile inserire più punzoni nella stessa unità!  
It is possible put more punches in the same unit!  
Es ist möglich, setzen mehr Lochstempel in der gleichen Einheit!  
Il est possible d'insérer plusieurs poinçons dans la même unité!

DISEGNO DEL MONTAGGIO / MOUNTING DESIGN / MONTAGEZEICHNUNG / DESSIN DU MONTAGE



- !** **ATTENZIONE:**  
per eseguire la prova manualmente togliere il cilindro come indicato.  
**ATTENTION:**  
in order to manually perform the test, extract the cylinder as indicated.  
**ACHTUNG:**  
Stickstoffzylinder verbaut, Schieber nur in Grundstellung öffnen.  
**ATTENTION:**  
pour effectuer le test, retirer manuellement le cylindre comme indiqué.

SMONTAGGIO PRODOTTO MAE / PRODUCT DISASSEMBLY MAE / DEMONTAGE DES PRODUKTES MAE / DÉMONTAGE PRODUIT MAE



- !** **ATTENZIONE:** cilindro a gas in pressione.  
**ATTENTION:** gas cylinder under pressure.  
**ACHTUNG:** Gasdruckfeder steht unter hohem Druck.  
**ATTENTION:** cylindre à gaz sous pression.

- IT** **Attenzione:** Assicurarsi che la camma sia nella sua posizione normale prima di eseguire qualsiasi lavoro di smontaggio o manutenzione.
1. Togliere il cilindro "B" rimuovendo il seeger "E" come indicato.
  2. Togliere il cilindro speciale rimuovendo il seeger "A".
  3. Togliere viti "F" per controllare il punzone.
  4. Rimuovere il seeger "D" togliendo lo stripper "C".  
L'utensile "G" per rimuovere "D" è a disposizione su richiesta.
  5. Eseguire le verifiche.
  6. Rimontare con cura lubrificando con grasso bisolfuro di Molibdeno (MoS<sub>2</sub>). L'uso di questo grasso viene consigliato da Newstark.
  7. Assicurare il corretto riposizionamento dei singoli componenti.  
Lubrificare durante l'uso con grasso bisolfuro di Molibdeno (MoS<sub>2</sub>).

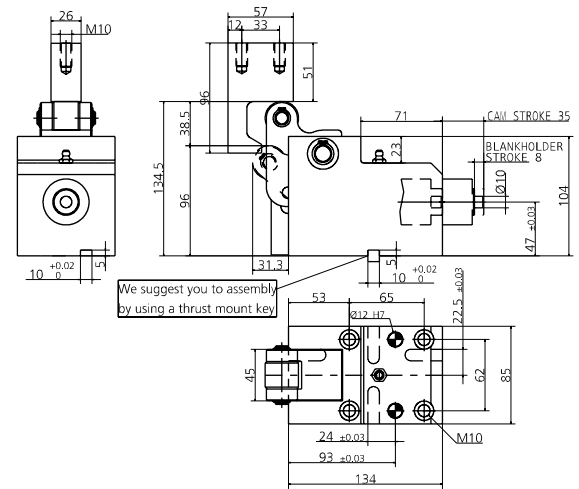
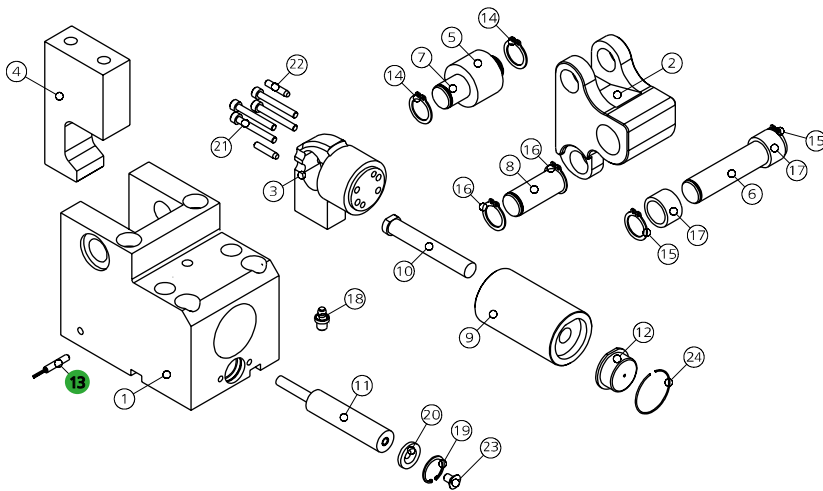
- EN** **Attention:** Undertake reassembly or maintenance work only when the cam unit is in its basic position.
1. Take off the cylinder "B" by removing the seeger "E" as shown.
  2. Take off the special cylinder by removing the seeger "A" as shown.
  3. Take off the screws "F" to change the punch.
  4. Take off the seeger "D" by removing stripper "C".  
The tool "G" to remove "D" is available on request.
  5. Check the components.
  6. Reassemble carefully using grease with disulfide molybdeno (MoS<sub>2</sub>).  
The use of this grease is recommended by Newstark.
  7. Ensure the correct positioning of the individual components.  
During use lubricate with grease with disulfide molybdeno (MoS<sub>2</sub>).

- DE** **Achtung:** Wartungs- und Demontearbeiten nur in Grundstellung der Stanzeinheit vornehmen.
1. Seegering "E" entfernen um den Gasdruckfeder "B" herauszuziehen.
  2. Spezielle Zylinder herausnehmen um Seegering "A" herausziehen.
  3. Schrauben "F" lösen um den Lochstempel zu wechseln.
  4. Sprengring "D" herausnehmen um den Abstreifer "C" zu entfernen.  
Ein Werkzeug "G" zur Entfernung von Teil "D" ist auf Anfrage lieferbar.
  5. Komponenten prüfen.
  6. Montage in umgekehrter Reihenfolge unter Verwendung von Molybdändisulfidfett (MoS<sub>2</sub>). Die Verwendung dieses Fett wird durch Newstark empfohlen.
  7. Auf richtigen Sitz der einzelnen Komponenten achten.  
Während des Gebrauches, mit Molybdändisulfidfett (MoS<sub>2</sub>) nachschmieren.

- FR** **Attention:** S'assurer que la came est dans sa position normale avant d'effectuer des travaux de démontage ou de maintenance.
1. Retirer le cylindres "B" en retirant le circlip "E" comme indiqué.
  2. Retirer le cylindre spécial en retirant le circlip "A".
  3. Retirer les vis "F" pour contrôler le poinçon.
  4. Enlever le circlip "D" en enlevant le stripper "C".  
L'outil "G" pour enlever "D" est disponible sur demande.
  5. Effectuer les contrôles.
  6. Remonter soigneusement en lubrifiant avec de la graisse au bisulfure de molybdène (MoS<sub>2</sub>). Newstark recommande l'utilisation de cette graisse.
  7. S'assurer que les différents éléments sont correctement repositionnés.  
Lubrifier avec de la graisse au bisulfure de molybdène (MoS<sub>2</sub>).

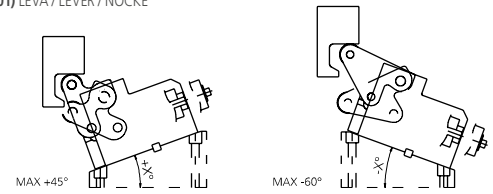
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **505 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1110 daN**  
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **4500 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE

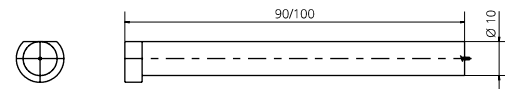


| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0043.0505</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE  | 1        |
| 002  | <b>8001.0043.0505.000</b>     | LEVA / LEVER / NOCKE 0   | 1        |
| 002  | <b>8001.0043.0505.615</b>     | LEVA / LEVER / NOCKE +1 +15  | 1*OPTION |
| 002  | <b>8001.0043.0505.630</b>     | LEVA / LEVER / NOCKE +15,01 +30  | 1*OPTION |
| 002  | <b>8001.0043.0505.645</b>     | LEVA / LEVER / NOCKE +30,01 +45  | 1*OPTION |
| 002  | <b>8001.0043.0505.715</b>     | LEVA / LEVER / NOCKE -1 -15  | 1*OPTION |
| 002  | <b>8001.0043.0505.730</b>     | LEVA / LEVER / NOCKE -15,01 -30  | 1*OPTION |
| 002  | <b>8001.0043.0505.740</b>     | LEVA / LEVER / NOCKE -30,01 -40  | 1*OPTION |
| 002  | <b>8001.0043.0505.760</b>     | LEVA / LEVER / NOCKE -40,01 -60  | 1*OPTION |
| 003  | <b>8002.0043.0505</b>         | FLANGIA / FLANGE / FLANSCH   | 1        |
| 004  | <b>8003.0960.0570.260.001</b> | INCUDINE / ANVIL / DRUCKSTÜCK  | 1*OPTION |
| 005  | <b>8004.0290.0240.120.001</b> | ROTELLA / ROLLER / ROLLE   | 1        |
| 006  | <b>8005.0850.0778.150.001</b> | PERNO / PIN / STIFT  | 1        |
| 007  | <b>8005.0510.0448.120.001</b> | PERNO / PIN / STIFT  | 1        |
| 008  | <b>8005.0446.0384.120.001</b> | PERNO / PIN / STIFT  | 1        |
| 009  | <b>9030.010.001</b>           | CILINDRO SPECIALE / SPECIAL CYLINDER / SPEZIALZYLINDER                                     | 1        |
| 010  | <b>9090.3JBM2.100.090</b>     | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 90  | 1*OPTION |
| 010  | <b>9090.3JBM2.100.100</b>     | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 100 | 1*OPTION |
| 010  | <b>093J_M2.100.090</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 90  | 1*OPTION |
| 010  | <b>093J_M2.100.100</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 100 | 1*OPTION |
| 011  | <b>9000.0038.0019.001</b>     | CILINDRO DI RITORNO / RETURN CYLINDER / RÜCK ZYLINDER                                      | 1        |
| 012  | <b>9016.090.010.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM                             | 1*CHOOSE |
| 012  | <b>9016.090.010.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM                              | 1*CHOOSE |
| 012  | <b>9016.100.010.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM                            | 1*CHOOSE |
| 012  | <b>9016.100.010.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM                             | 1*CHOOSE |
| 012  | <b>8016.090.010.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM                             | 1*OPTION |
| 012  | <b>8016.090.010.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM                              | 1*OPTION |
| 012  | <b>8016.100.010.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM                            | 1*OPTION |
| 012  | <b>8016.100.010.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM                             | 1*OPTION |
| 013  | <b>9003.0001</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT                             | 1*OPTION |
| 014  | <b>9004.1120.001</b>          | SEEGER / SEEGER / SEEGERRING   | 2        |
| 015  | <b>9004.1150.001</b>          | SEEGER / SEEGER / SEEGERRING   | 2        |
| 016  | <b>9004.1120.001</b>          | SEEGER / SEEGER / SEEGERRING   | 2        |
| 017  | <b>9005.0112.0015.001</b>     | CUSCINETTO / BEARING / LAGER   | 2        |
| 018  | <b>9006.002</b>               | INGRASSATORE / NIPPLE / SCHMIERUNG   | 1        |
| 019  | <b>9004.2220.001</b>          | SEEGER / SEEGER / SEEGERRING   | 1        |
| 020  | <b>8006.0130.0218.065.001</b> | RONDELLA / WASHER / UNTERLEGSCHIBE   | 1        |
| 021  | <b>9007.04.030.129.1.4762</b> | VITE / SCREW / SCHRAUBE M4X30  | 4        |
| 022  | <b>9028.040.010.8735</b>      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D4X10   | 2        |
| 023  | <b>9007.06.014.129.1.5933</b> | VITE / SCREW / SCHRAUBE M6X14  | 1        |
| 024  | <b>9004.2290.001</b>          | SEEGER / SEEGER / SEEGERRING   | 1        |

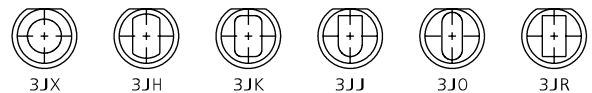
002 (8001) LEVA / LEVER / NOCKE



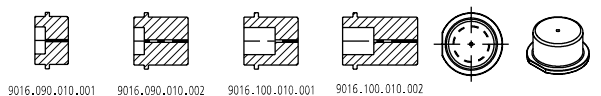
010 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



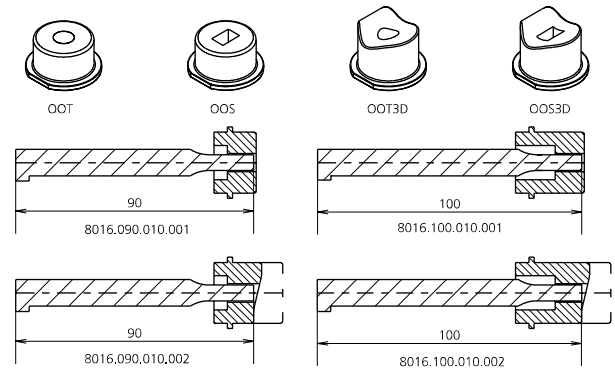
010 (093J\_) PUNZONE SAGOMATO / SHAPED PUNCH / GEFORMT SCHNEIDSTEMPEL ISO8020



012 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



012 (8016) PREMILAMIERA SAGOMATO / SHAPED BLANKHOLDER / GEFORMT BLECHHALTER



013 (9003) SENSORE / SENSOR / SENSOR



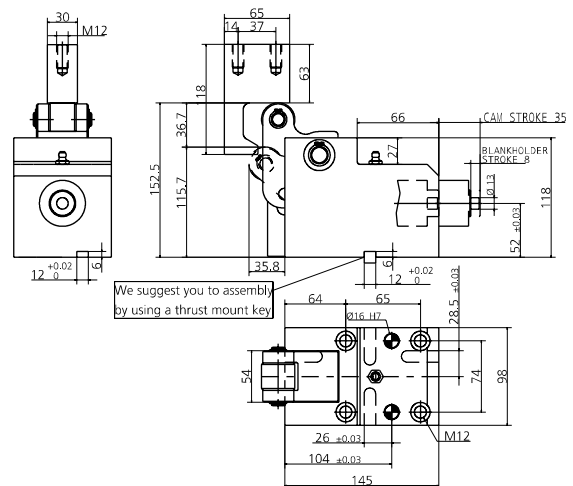
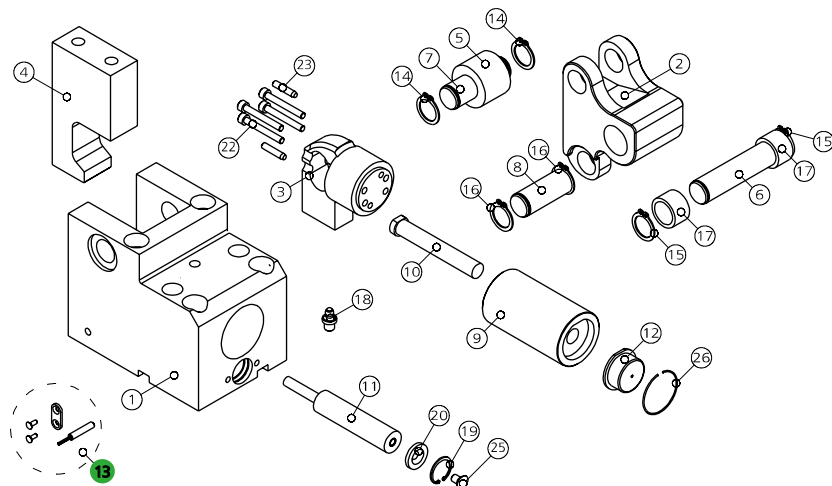
**13 PATENT PENDING**

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0143.5050** INCLINATION **+10°** BLANKHOLDER **9016/8016.** OPTION CODE **8001.0043.0505.615**

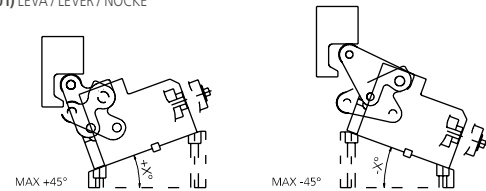
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **695 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1530 daN**  
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **6000 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE

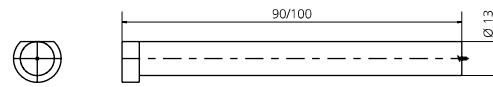


| POS. | CODE                   | DESCRIPTION  | Q.TY     |
|------|------------------------|--|----------|
| 001  | 8000.0043.0695         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE  | 1        |
| 002  | 8001.0043.0695.000     | LEVA / LEVER / NOCKE 0   | 1        |
| 002  | 8001.0043.0695.615     | LEVA / LEVER / NOCKE +0.01 +15   | 1*OPTION |
| 002  | 8001.0043.0695.630     | LEVA / LEVER / NOCKE +15.01 +30  | 1*OPTION |
| 002  | 8001.0043.0695.645     | LEVA / LEVER / NOCKE +30.01 +45  | 1*OPTION |
| 002  | 8001.0043.0695.715     | LEVA / LEVER / NOCKE -0.01 -15   | 1*OPTION |
| 002  | 8001.0043.0695.730     | LEVA / LEVER / NOCKE -15.01 -30  | 1*OPTION |
| 002  | 8001.0043.0695.745     | LEVA / LEVER / NOCKE -30.01 -45  | 1*OPTION |
| 003  | 8002.0043.0695         | FLANGIA / FLANGE / FLANSCH   | 1        |
| 004  | 8003.1180.0650.300.001 | INCUDINE / ANVIL / DRUCKSTÜCK  | 1*OPTION |
| 005  | 8004.0370.0280.200.001 | ROTELLA / ROLLER / ROLLE   | 1        |
| 006  | 8005.0980.0910.200.001 | PERNO / PIN / STIFT  | 1        |
| 007  | 8005.0610.0540.200.001 | PERNO / PIN / STIFT  | 1        |
| 008  | 8005.0530.0460.200.001 | PERNO / PIN / STIFT  | 1        |
| 009  | 9030.013.001           | CILINDRO SPECIALE / SPECIAL CYLINDER / SPEZIALZYLINDER                                     | 1        |
| 010  | 9090.3JBM2.130.090     | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 13 90  | 1*OPTION |
| 010  | 9090.3JBM2.130.100     | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 13 100 | 1*OPTION |
| 010  | 093J_M2.130.090        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 13 90  | 1*OPTION |
| 010  | 093J_M2.130.100        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 13 100 | 1*OPTION |
| 011  | 9000.0038.0019.001     | CILINDRO DI RITORNO / RETURN CYLINDER / RÜCK ZYLINDER                                      | 1        |
| 012  | 9016.090.136.001       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM                             | 1*CHOOSE |
| 012  | 9016.090.136.002       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM                              | 1*CHOOSE |
| 012  | 9016.100.136.001       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM                            | 1*CHOOSE |
| 012  | 9016.100.136.002       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM                             | 1*CHOOSE |
| 012  | 8016.090.136.001       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM                             | 1*OPTION |
| 012  | 8016.090.136.002       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM                              | 1*OPTION |
| 012  | 8016.100.136.001       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM                            | 1*OPTION |
| 012  | 8016.100.136.002       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM                             | 1*OPTION |
| 013  | 8107.0143.6953.001     | KIT SENSORE DI SICUREZZA / SECURITY SENSOR KIT / KIT SENSOR FÜR SICHERHEIT                 | 1*OPTION |
| 014  | 9004.1200.001          | SEGER / SEEGER / SEEGERRING  | 2        |
| 015  | 9004.1200.001          | SEGER / SEEGER / SEEGERRING  | 2        |
| 016  | 9004.1200.001          | SEGER / SEEGER / SEEGERRING  | 2        |
| 017  | 9005.0116.0020.001     | CUSCINETTO / BEARING / LAGER   | 2        |
| 018  | 9006.003               | INGRASSATORE / NIPPLE / SCHMIERUNG   | 1        |
| 019  | 9004.2220.001          | SEGER / SEEGER / SEEGERRING  | 1        |
| 020  | 8006.0130.0218.065.001 | RONDELLA / WASHER / UNTERLEGSCHIBE   | 1        |
| 022  | 9007.05.035.129.1.4762 | VITE / SCREW / SCHRAUBE MSX35  | 4        |
| 023  | 9028.050.016.8735      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT DSX16   | 2        |
| 025  | 9007.06.014.129.1.5933 | VITE / SCREW / SCHRAUBE M6X14  | 1        |
| 026  | 9004.2350.001          | SEGER / SEEGER / SEEGERRING  | 1        |

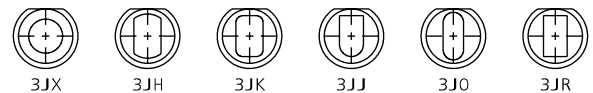
002 (8001) LEVA / LEVER / NOCKE



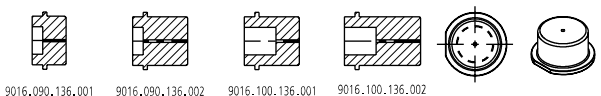
0010 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



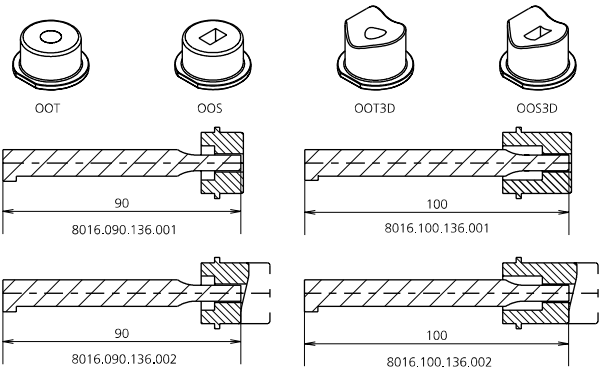
010 (093J\_) PUNZONE SAGOMATO / SHAPED PUNCH / GEFORMT SCHNEIDSTEMPEL ISO8020



012 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



012 (8016) PREMILAMIERA SAGOMATO / SHAPED BLANKHOLDER / GEFORMT BLECHHALTER



013 (8107) SENSORE / SENSOR / SENSOR



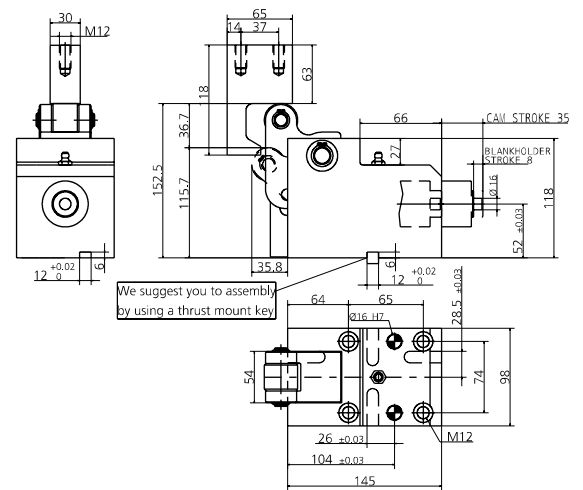
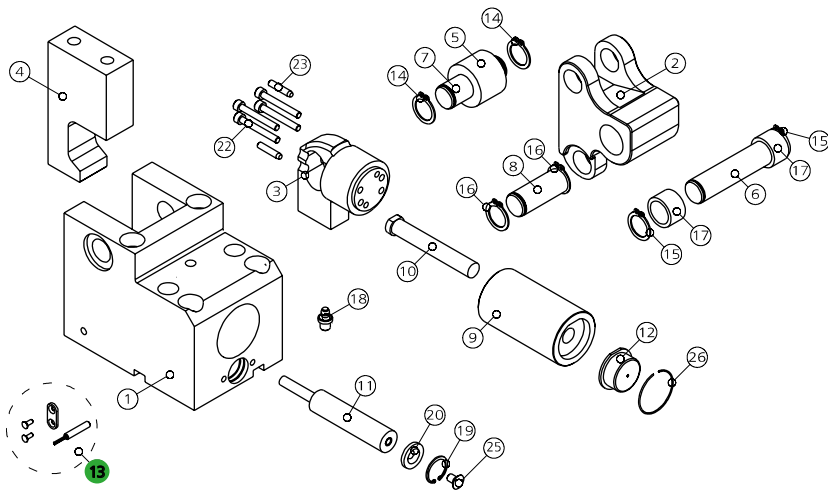
13 PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0143.6953** INCLINATION **+10°** BLANKHOLDER **9016/8016.** OPTION CODE **8001.0043.0695.615**

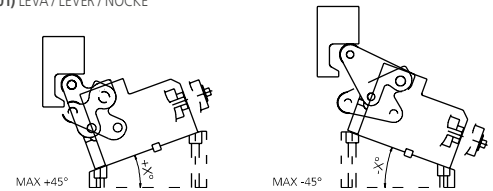
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **695 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1530 daN**  
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **6000 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE

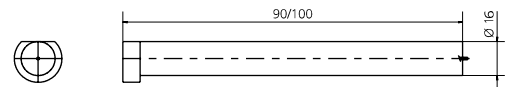


| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0043.0695</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE  | 1        |
| 002  | <b>8001.0043.0695.000</b>     | LEVA / LEVER / NOCKE 0   | 1        |
| 002  | <b>8001.0043.0695.615</b>     | LEVA / LEVER / NOCKE +0.01 +15   | 1*OPTION |
| 002  | <b>8001.0043.0695.630</b>     | LEVA / LEVER / NOCKE +15.01 +30  | 1*OPTION |
| 002  | <b>8001.0043.0695.645</b>     | LEVA / LEVER / NOCKE +30.01 +45  | 1*OPTION |
| 002  | <b>8001.0043.0695.715</b>     | LEVA / LEVER / NOCKE -0.01 -15   | 1*OPTION |
| 002  | <b>8001.0043.0695.730</b>     | LEVA / LEVER / NOCKE -15.01 -30  | 1*OPTION |
| 002  | <b>8001.0043.0695.745</b>     | LEVA / LEVER / NOCKE -30.01 -45  | 1*OPTION |
| 003  | <b>8002.0043.0695</b>         | FLANGIA / FLANGE / FLANSCH   | 1        |
| 004  | <b>8003.1180.0650.300.001</b> | INCUDINE / ANVIL / DRUCKSTÜCK  | 1*OPTION |
| 005  | <b>8004.0370.0280.200.001</b> | ROTELLA / ROLLER / ROLLE   | 1        |
| 006  | <b>8005.0980.0910.200.001</b> | PERNO / PIN / STIFT  | 1        |
| 007  | <b>8005.0610.0540.200.001</b> | PERNO / PIN / STIFT  | 1        |
| 008  | <b>8005.0530.0460.200.001</b> | PERNO / PIN / STIFT  | 1        |
| 009  | <b>9030.016.001</b>           | CILINDRO SPECIALE / SPECIAL CYLINDER / SPEZIALZYLINDER                                     | 1        |
| 010  | <b>9090.3JBM2.160.090</b>     | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 90  | 1*OPTION |
| 010  | <b>9090.3JBM2.160.100</b>     | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 100 | 1*OPTION |
| 010  | <b>093J_M2.160.090</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 90  | 1*OPTION |
| 010  | <b>093J_M2.160.100</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 100 | 1*OPTION |
| 011  | <b>9000.0038.0019.001</b>     | CILINDRO DI RITORNO / RETURN CYLINDER / RÜCK ZYLINDER                                      | 1        |
| 012  | <b>9016.090.136.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM                             | 1*CHOOSE |
| 012  | <b>9016.090.136.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM                              | 1*CHOOSE |
| 012  | <b>9016.100.136.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM                            | 1*CHOOSE |
| 012  | <b>9016.100.136.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM                             | 1*CHOOSE |
| 012  | <b>8016.090.136.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM                             | 1*OPTION |
| 012  | <b>8016.090.136.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM                              | 1*OPTION |
| 012  | <b>8016.100.136.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM                            | 1*OPTION |
| 012  | <b>8016.100.136.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM                             | 1*OPTION |
| 013  | <b>8107.0143.6956.001</b>     | KIT SENSORE DI SICUREZZA / SECURITY SENSOR KIT / KIT SENSOR FÜR SICHERHEIT                 | 1*OPTION |
| 014  | <b>9004.1200.001</b>          | SEEGER / SEEGER / SEEGERRING   | 2        |
| 015  | <b>9004.1200.001</b>          | SEEGER / SEEGER / SEEGERRING   | 2        |
| 016  | <b>9004.1200.001</b>          | SEEGER / SEEGER / SEEGERRING   | 2        |
| 017  | <b>9005.0116.0020.001</b>     | CUSCINETTO / BEARING / LAGER   | 2        |
| 018  | <b>9006.003</b>               | INGRASSATORE / NIPPLE / SCHMIERUNG   | 1        |
| 019  | <b>9004.2220.001</b>          | SEEGER / SEEGER / SEEGERRING   | 1        |
| 020  | <b>8006.0130.0218.065.001</b> | RONDELLA / WASHER / UNTERLEGSCHIBE   | 1        |
| 022  | <b>9007.05.035.129.1.4762</b> | VITE / SCREW / SCHRAUBE M5X35  | 4        |
| 023  | <b>9028.050.016.8735</b>      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D5X16   | 2        |
| 025  | <b>9007.06.014.129.1.5933</b> | VITE / SCREW / SCHRAUBE M6X14  | 1        |
| 026  | <b>9004.2350.001</b>          | SEEGER / SEEGER / SEEGERRING   | 1        |

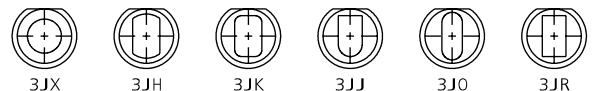
002 (8001) LEVA / LEVER / NOCKE



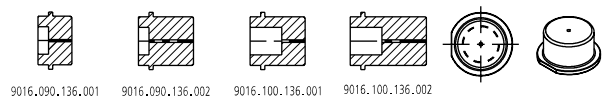
010 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



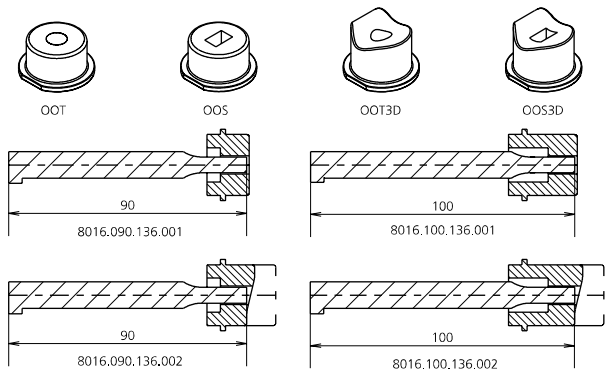
010 (093J\_) PUNZONE SAGOMATO / SHAPED PUNCH / GEFORMT SCHNEIDSTEMPEL ISO8020



012 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



012 (8016) PREMILAMIERA SAGOMATO / SHAPED BLANKHOLDER / GEFORMT BLECHHALTER



013 (8107) SENSORE / SENSOR / SENSOR



**16 PATENT PENDING**

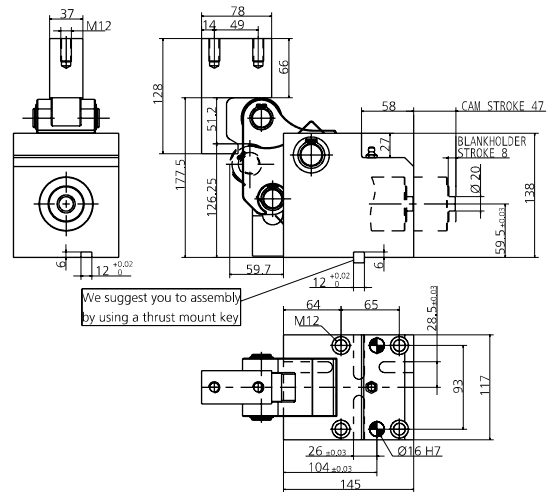
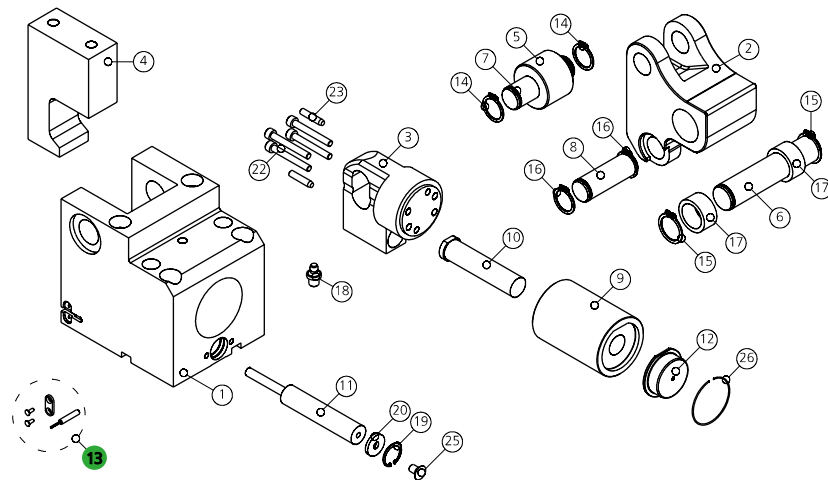
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0143.6956** INCLINATION **+10°** BLANKHOLDER **9016/8016.** OPTION CODE **8001.0043.0695.615**



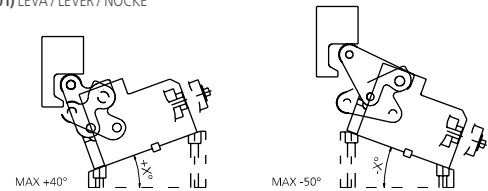
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE 1160 daN  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION 2550 daN  
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION

SPORZO MAX TRANCIO 9000 daN  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE

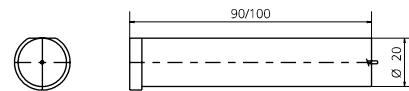


| POS. | CODE                   | DESCRIPTION  | Q.TY     |
|------|------------------------|--|----------|
| 001  | 8000.0043.1160         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE  | 1        |
| 002  | 8001.0043.1160.000     | LEVA / LEVER / NOCKE 0   | 1        |
| 002  | 8001.0043.1160.610     | LEVA / LEVER / NOCKE +0.01 +10   | 1*OPTION |
| 002  | 8001.0043.1160.620     | LEVA / LEVER / NOCKE +10.01 +20  | 1*OPTION |
| 002  | 8001.0043.1160.630     | LEVA / LEVER / NOCKE +20.01 +30  | 1*OPTION |
| 002  | 8001.0043.1160.640     | LEVA / LEVER / NOCKE +30.01 +40  | 1*OPTION |
| 002  | 8001.0043.1160.710     | LEVA / LEVER / NOCKE -0.01 -10   | 1*OPTION |
| 002  | 8001.0043.1160.720     | LEVA / LEVER / NOCKE -10.01 -20  | 1*OPTION |
| 002  | 8001.0043.1160.730     | LEVA / LEVER / NOCKE -20.01 -30  | 1*OPTION |
| 002  | 8001.0043.1160.740     | LEVA / LEVER / NOCKE -30.01 -40  | 1*OPTION |
| 002  | 8001.0043.1160.750     | LEVA / LEVER / NOCKE -40.01 -50  | 1*OPTION |
| 003  | 8002.0043.1160         | FLANGIA / FLANGE / FLANSCH   | 1        |
| 004  | 8003.1280.0780.370.001 | INCUDINE / ANVIL / DRUCKSTÜCK  | 1*OPTION |
| 005  | 8004.0450.0330.220.001 | ROTELLA / ROLLER / ROLLE   | 1        |
| 006  | 8005.1164.1078.250.001 | PERNO / PIN / STIFT  | 1        |
| 007  | 8005.0734.0648.220.001 | PERNO / PIN / STIFT  | 1        |
| 008  | 8005.0644.0558.220.001 | PERNO / PIN / STIFT  | 1        |
| 009  | 9030.020.001           | CILINDRO SPECIALE / SPECIAL CYLINDER / SPEZIALZYLINDER                                     | 1        |
| 010  | 9090.3JBM2.200.090     | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 20 90  | 1*OPTION |
| 010  | 9090.3JBM2.200.100     | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 20 100 | 1*OPTION |
| 010  | 093J_M2.200.090        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 20 90  | 1*OPTION |
| 010  | 093J_M2.200.100        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 20 100 | 1*OPTION |
| 011  | 9000.0050.0019.001     | CILINDRO DI RITORNO / RETURN CYLINDER / RÜCK ZYLINDER                                      | 1        |
| 012  | 9016.090.205.001       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM                             | 1*CHOOSE |
| 012  | 9016.090.205.002       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM                              | 1*CHOOSE |
| 012  | 9016.100.205.001       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM                            | 1*CHOOSE |
| 012  | 9016.100.205.002       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM                             | 1*CHOOSE |
| 012  | 8016.090.205.001       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM                             | 1*OPTION |
| 012  | 8016.090.205.002       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM                              | 1*OPTION |
| 012  | 8016.100.205.001       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM                            | 1*OPTION |
| 012  | 8016.100.205.002       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM                             | 1*OPTION |
| 013  | 8107.0143.1160.001     | KIT SENSORE DI SICUREZZA / SECURITY SENSOR KIT / KIT SENSOR FÜR SICHERHEIT                 | 1*OPTION |
| 014  | 9004.1220.001          | SEEGER / SEEGER / SEEGERRING   | 2        |
| 015  | 9004.1250.001          | SEEGER / SEEGER / SEEGERRING   | 2        |
| 016  | 9004.1220.001          | SEEGER / SEEGER / SEEGERRING   | 2        |
| 017  | 9005.0120.0025.001     | CUSCINETTO / BEARING / LAGER   | 2        |
| 018  | 9006.003               | INGRASSATORE / NIPPLE / SCHMIERUNG   | 1        |
| 019  | 9004.2220.001          | SEEGER / SEEGER / SEEGERRING   | 1        |
| 020  | 8006.0130.0218.065.001 | RONDELLA / WASHER / UNTERLEGSCHIBE   | 1        |
| 022  | 9007.06.035.129.1.4762 | VITE / SCREW / SCHRAUBE M6X35  | 4        |
| 023  | 9028.060.020.8735      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D6X20   | 2        |
| 025  | 9007.06.014.129.1.5933 | VITE / SCREW / SCHRAUBE M6X14  | 1        |
| 026  | 9004.2480.001          | SEEGER / SEEGER / SEEGERRING   | 1        |

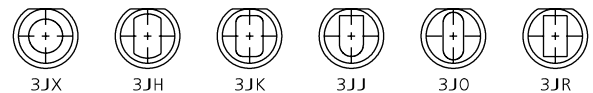
002 (8001) LEVA / LEVER / NOCKE



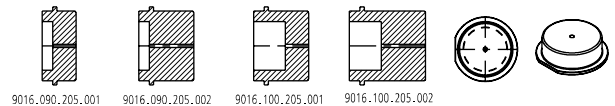
0010 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



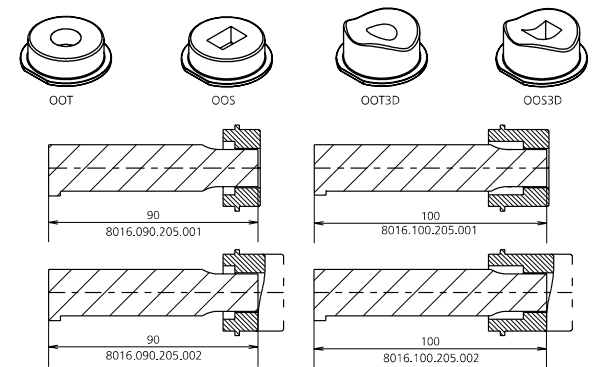
010 (093J\_) PUNZONE SAGOMATO / SHAPED PUNCH / GEFORMT SCHNEIDSTEMPEL ISO8020



012 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



012 (8016) PREMILAMIERA SAGOMATO / SHAPED BLANKHOLDER / GEFORMT BLECHHALTER

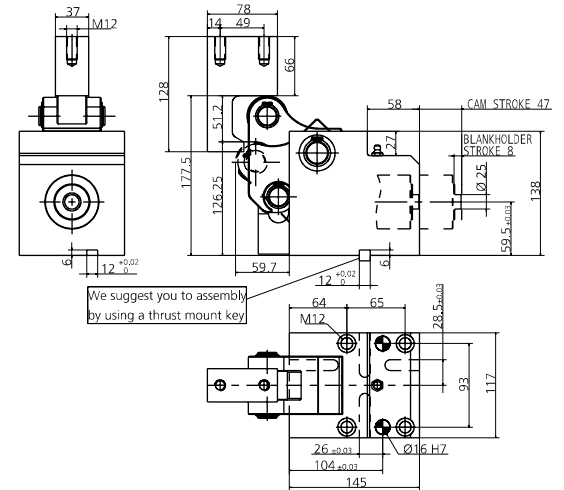
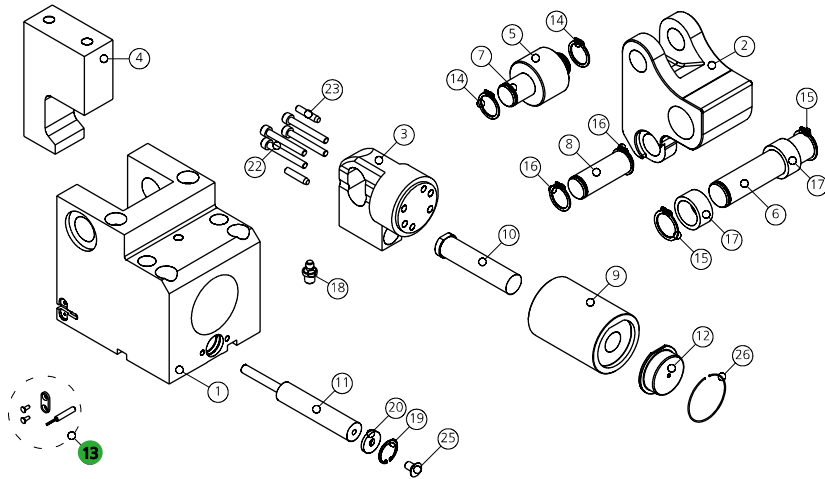


013 (8107) SENSORE / SENSOR / SENSOR



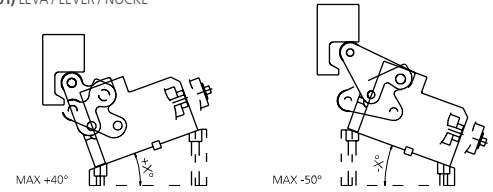
13 PATENT PENDING

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **1160 daN** SFORZO MAX TRANCIO **9000 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **2550 daN** CUTTING MAX FORCE  
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE

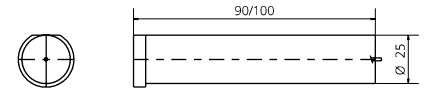


| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0043.1160</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE  | 1        |
| 002  | <b>8001.0043.1160.000</b>     | LEVA / LEVER / NOCKE 0   | 1        |
| 002  | <b>8001.0043.1160.610</b>     | LEVA / LEVER / NOCKE +0.01 +10   | 1*OPTION |
| 002  | <b>8001.0043.1160.620</b>     | LEVA / LEVER / NOCKE +10.01 +20  | 1*OPTION |
| 002  | <b>8001.0043.1160.630</b>     | LEVA / LEVER / NOCKE +20.01 +30  | 1*OPTION |
| 002  | <b>8001.0043.1160.640</b>     | LEVA / LEVER / NOCKE +30.01 +40  | 1*OPTION |
| 002  | <b>8001.0043.1160.710</b>     | LEVA / LEVER / NOCKE -0.01 -10   | 1*OPTION |
| 002  | <b>8001.0043.1160.720</b>     | LEVA / LEVER / NOCKE -10.01 -20  | 1*OPTION |
| 002  | <b>8001.0043.1160.730</b>     | LEVA / LEVER / NOCKE -20.01 -30  | 1*OPTION |
| 002  | <b>8001.0043.1160.740</b>     | LEVA / LEVER / NOCKE -30.01 -40  | 1*OPTION |
| 002  | <b>8001.0043.1160.750</b>     | LEVA / LEVER / NOCKE -40.01 -50  | 1*OPTION |
| 003  | <b>8002.0043.1160</b>         | FLANGIA / FLANGE / FLANSCH   | 1        |
| 004  | <b>8003.1280.0780.370.001</b> | INCUDINE / ANVIL / DRUCKSTÜCK  | 1*OPTION |
| 005  | <b>8004.0450.0330.220.001</b> | ROTELLA / ROLLER / ROLLE   | 1        |
| 006  | <b>8005.1164.1078.250.001</b> | PERNO / PIN / STIFT  | 1        |
| 007  | <b>8005.0734.0648.220.001</b> | PERNO / PIN / STIFT  | 1        |
| 008  | <b>8005.0644.0558.220.001</b> | PERNO / PIN / STIFT  | 1        |
| 009  | <b>9030.025.001</b>           | CILINDRO SPECIALE / SPECIAL CYLINDER / SPEZIALZYLINDER                                     | 1        |
| 010  | <b>9090.3JBM2.250.090</b>     | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 25 90  | 1*OPTION |
| 010  | <b>9090.3JBM2.250.100</b>     | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 25 100 | 1*OPTION |
| 010  | <b>093J_M2.250.090</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 25 90  | 1*OPTION |
| 010  | <b>093J_M2.250.100</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 25 100 | 1*OPTION |
| 011  | <b>9000.0050.0019.001</b>     | CILINDRO DI RITORNO / RETURN CYLINDER / RÜCK ZYLINDER                                      | 1        |
| 012  | <b>9016.090.205.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM                             | 1*CHOOSE |
| 012  | <b>9016.090.205.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM                              | 1*CHOOSE |
| 012  | <b>9016.100.205.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM                            | 1*CHOOSE |
| 012  | <b>9016.100.205.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM                             | 1*CHOOSE |
| 012  | <b>8016.090.205.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM                             | 1*OPTION |
| 012  | <b>8016.090.205.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM                              | 1*OPTION |
| 012  | <b>8016.100.205.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM                            | 1*OPTION |
| 012  | <b>8016.100.205.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM                             | 1*OPTION |
| 013  | <b>8107.0143.1165.001</b>     | KIT SENSORE DI SICUREZZA / SECURITY SENSOR KIT / KIT SENSOR FÜR SICHERHEIT                 | 1*OPTION |
| 014  | <b>9004.1220.001</b>          | SEEGER / SEEGER / SEEGERRING   | 2        |
| 015  | <b>9004.1250.001</b>          | SEEGER / SEEGER / SEEGERRING   | 2        |
| 016  | <b>9004.1220.001</b>          | SEEGER / SEEGER / SEEGERRING   | 2        |
| 017  | <b>9005.0120.0025.001</b>     | CUSCINETTO / BEARING / LAGER   | 2        |
| 018  | <b>9006.003</b>               | INGRASSATORE / NIPPLE / SCHMIERUNG   | 1        |
| 019  | <b>9004.2220.001</b>          | SEEGER / SEEGER / SEEGERRING   | 1        |
| 020  | <b>8006.0130.0218.065.001</b> | RONDELLA / WASHER / UNTERLEGSCHIBE   | 1        |
| 022  | <b>9007.06.035.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X35  | 4        |
| 023  | <b>9028.060.020.8735</b>      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D6X20   | 2        |
| 025  | <b>9007.06.014.129.1.5933</b> | VITE / SCREW / SCHRAUBE M6X14  | 1        |
| 026  | <b>9004.2480.001</b>          | SEEGER / SEEGER / SEEGERRING   | 1        |

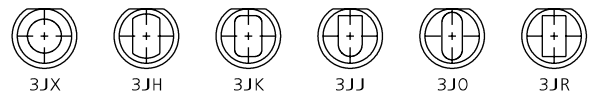
002 (8001) LEVA / LEVER / NOCKE



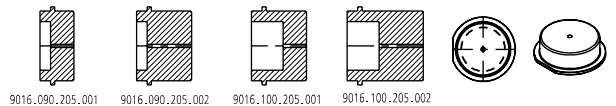
010 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



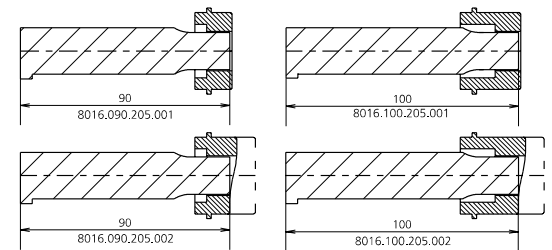
010 (093J\_) PUNZONE SAGOMATO / SHAPED PUNCH / GEFORMT SCHNEIDSTEMPEL ISO8020



012 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



012 (8016) PREMILAMIERA SAGOMATO / SHAPED BLANKHOLDER / GEFORMT BLECHHALTER



013 (8107) SENSORE / SENSOR / SENSOR



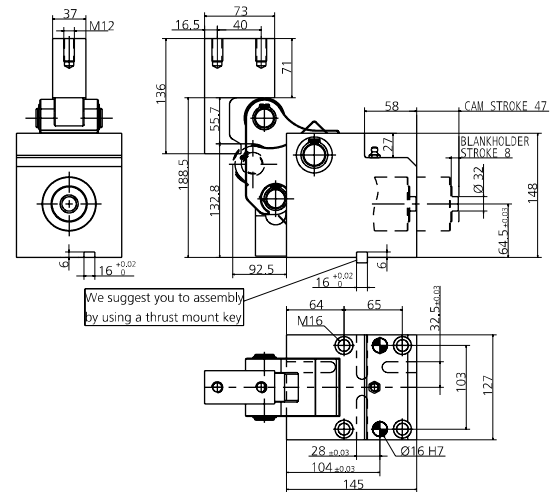
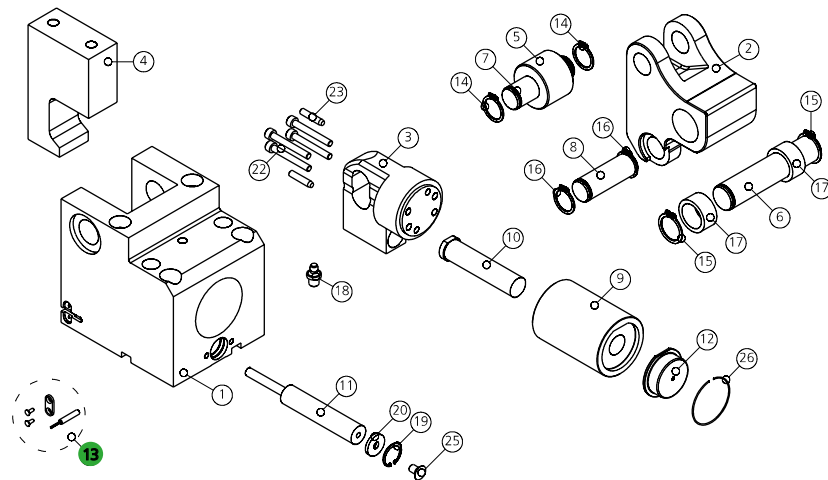
**13 PATENT PENDING**

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0143.1165** INCLINATION **+10°** BLANKHOLDER **9016/8016.** OPTION CODE **8001.0043.1160.610**

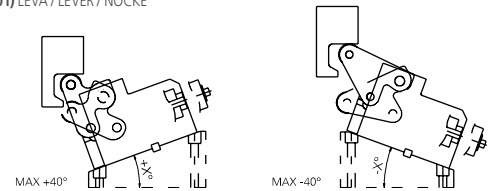
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **1390 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **3050 daN**  
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION

SPORZO MAX TRANCIO **12000 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE

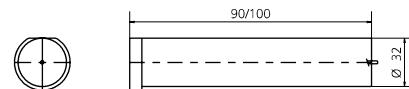


| POS. | CODE                   | DESCRIPTION  | Q.TY     |
|------|------------------------|--|----------|
| 001  | 8000.0043.1390         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE  | 1        |
| 002  | 8001.0043.1390.000     | LEVA / LEVER / NOCKE 0   | 1        |
| 002  | 8001.0043.1390.610     | LEVA / LEVER / NOCKE +0.01 +10   | 1*OPTION |
| 002  | 8001.0043.1390.620     | LEVA / LEVER / NOCKE +10.01 +20  | 1*OPTION |
| 002  | 8001.0043.1390.630     | LEVA / LEVER / NOCKE +20.01 +30  | 1*OPTION |
| 002  | 8001.0043.1390.640     | LEVA / LEVER / NOCKE +30.01 +40  | 1*OPTION |
| 002  | 8001.0043.1390.710     | LEVA / LEVER / NOCKE -0.01 -10   | 1*OPTION |
| 002  | 8001.0043.1390.720     | LEVA / LEVER / NOCKE -10.01 -20  | 1*OPTION |
| 002  | 8001.0043.1390.730     | LEVA / LEVER / NOCKE -20.01 -30  | 1*OPTION |
| 002  | 8001.0043.1390.740     | LEVA / LEVER / NOCKE -30.01 -40  | 1*OPTION |
| 003  | 8002.0043.1390         | FLANGIA / FLANGE / FLANSCH   | 1        |
| 004  | 8003.1360.0730.370.001 | INCUDINE / ANVIL / DRUCKSTÜCK  | 1*OPTION |
| 005  | 8004.0450.0330.220.001 | ROTELLA / ROLLER / ROLLE   | 1        |
| 006  | 8005.1264.1178.250.001 | PERNO / PIN / STIFT  | 1        |
| 007  | 8005.0784.0698.220.001 | PERNO / PIN / STIFT  | 1        |
| 008  | 8005.0694.0608.220.001 | PERNO / PIN / STIFT  | 1        |
| 009  | 9030.032.001           | CILINDRO SPECIALE / SPECIAL CYLINDER / SPEZIALZYLINDER                                     | 1        |
| 010  | 9090.3JBM2.320.090     | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 32 90  | 1*OPTION |
| 010  | 9090.3JBM2.320.100     | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 32 100 | 1*OPTION |
| 010  | 093J_M2.320.090        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 32 90  | 1*OPTION |
| 010  | 093J_M2.320.100        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 32 100 | 1*OPTION |
| 011  | 9000.0050.0019.001     | CILINDRO DI RITORNO / RETURN CYLINDER / RÜCK ZYLINDER                                      | 1        |
| 012  | 9016.090.032.001       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM                             | 1*CHOOSE |
| 012  | 9016.090.032.002       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM                              | 1*CHOOSE |
| 012  | 9016.100.032.001       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM                            | 1*CHOOSE |
| 012  | 9016.100.032.002       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM                             | 1*CHOOSE |
| 012  | 8016.090.032.001       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM                             | 1*OPTION |
| 012  | 8016.090.032.002       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM                              | 1*OPTION |
| 012  | 8016.100.032.001       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM                            | 1*OPTION |
| 012  | 8016.100.032.002       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM                             | 1*OPTION |
| 013  | 8107.0143.1392.001     | KIT SENSORE DI SICUREZZA / SECURITY SENSOR KIT / KIT SENSOR FÜR SICHERHEIT                 | 1*OPTION |
| 014  | 9004.1220.001          | SEEGER / SEEGER / SEEGERRING   | 2        |
| 015  | 9004.1250.001          | SEEGER / SEEGER / SEEGERRING   | 2        |
| 016  | 9004.1220.001          | SEEGER / SEEGER / SEEGERRING   | 2        |
| 017  | 9005.0120.0025.001     | CUSCINETTO / BEARING / LAGER   | 2        |
| 018  | 9006.003               | INGRASSATORE / NIPPLE / SCHMIERUNG   | 1        |
| 019  | 9004.2220.001          | SEEGER / SEEGER / SEEGERRING   | 1        |
| 020  | 8006.0130.0218.065.001 | RONDELLA / WASHER / UNTERLEGSCHIBE   | 1        |
| 022  | 9007.06.035.129.1.4762 | VITE / SCREW / SCHRAUBE M6X35  | 4        |
| 023  | 9028.060.020.8735      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D6X20   | 2        |
| 025  | 9007.06.014.129.1.5933 | VITE / SCREW / SCHRAUBE M6X14  | 1        |
| 026  | 9004.2570.001          | SEEGER / SEEGER / SEEGERRING   | 1        |

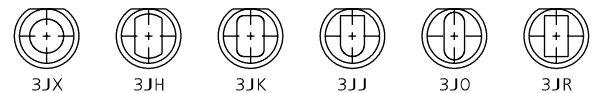
002 (8001) LEVA / LEVER / NOCKE



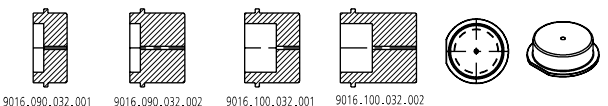
0010 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



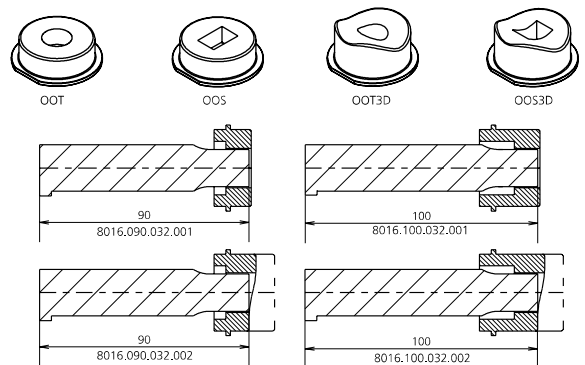
010 (093J\_) PUNZONE SAGOMATO / SHAPED PUNCH / GEFORMT SCHNEIDSTEMPEL ISO8020



012 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



012 (8016) PREMILAMIERA SAGOMATO / SHAPED BLANKHOLDER / GEFORMT BLECHHALTER



013 (8107) SENSORE / SENSOR / SENSOR

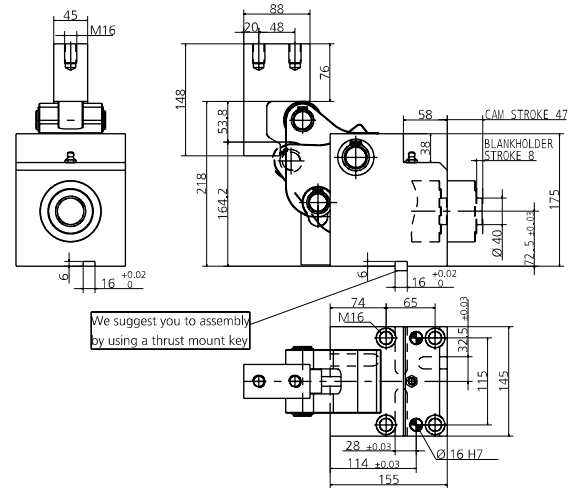
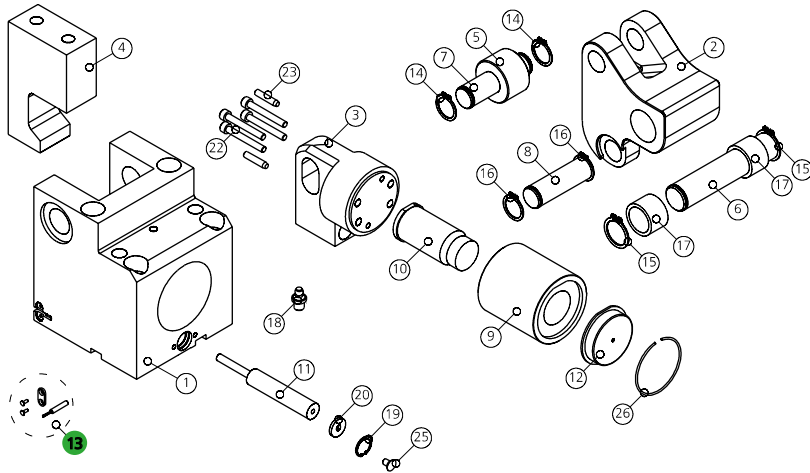


13 PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

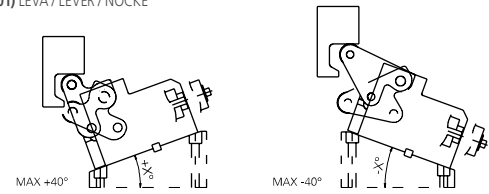
MODEL **0143.1392** INCLINATION **+10°** BLANKHOLDER **9016/8016.** OPTION CODE **8001.0043.1390.610**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **1880 daN** SFORZO MAX TRANCIO **17000 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **4100 daN** CUTTING MAX FORCE  
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE

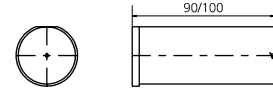


| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0043.1880</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE  | 1        |
| 002  | <b>8001.0043.1180.000</b>     | LEVA / LEVER / NOCKE 0   | 1        |
| 002  | <b>8001.0043.1180.610</b>     | LEVA / LEVER / NOCKE +0.01 +10   | 1*OPTION |
| 002  | <b>8001.0043.1180.620</b>     | LEVA / LEVER / NOCKE +10.01 +20  | 1*OPTION |
| 002  | <b>8001.0043.1180.630</b>     | LEVA / LEVER / NOCKE +20.01 +30  | 1*OPTION |
| 002  | <b>8001.0043.1180.640</b>     | LEVA / LEVER / NOCKE +30.01 +40  | 1*OPTION |
| 002  | <b>8001.0043.1180.710</b>     | LEVA / LEVER / NOCKE -0.01 -10   | 1*OPTION |
| 002  | <b>8001.0043.1180.720</b>     | LEVA / LEVER / NOCKE -10.01 -20  | 1*OPTION |
| 002  | <b>8001.0043.1180.730</b>     | LEVA / LEVER / NOCKE -20.01 -30  | 1*OPTION |
| 002  | <b>8001.0043.1180.740</b>     | LEVA / LEVER / NOCKE -30.01 -40  | 1*OPTION |
| 003  | <b>8002.0043.1880</b>         | FLANGIA / FLANGE / FLANSCH   | 1        |
| 004  | <b>8003.1480.0880.450.001</b> | INCUDINE / ANVIL / DRUCKSTÜCK  | 1*OPTION |
| 005  | <b>8004.0500.0330.250.001</b> | ROTELLA / ROLLER / ROLLE   | 1        |
| 006  | <b>8005.1450.1358.300.001</b> | PERNO / PIN / STIFT  | 1        |
| 007  | <b>8005.0924.0838.250.001</b> | PERNO / PIN / STIFT  | 1        |
| 008  | <b>8005.0834.0748.250.001</b> | PERNO / PIN / STIFT  | 1        |
| 009  | <b>9030.040.001</b>           | CILINDRO SPECIALE / SPECIAL CYLINDER / SPEZIALZYLINDER                                     | 1        |
| 010  | <b>9090.3JBM2.400.090</b>     | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 40 90  | 1*OPTION |
| 010  | <b>9090.3JBM2.400.100</b>     | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 40 100 | 1*OPTION |
| 010  | <b>093J_M2.400.090</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 40 90  | 1*OPTION |
| 010  | <b>093J_M2.400.100</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 40 100 | 1*OPTION |
| 011  | <b>9000.0050.0019.001</b>     | CILINDRO DI RITORNO / RETURN CYLINDER / RÜCK ZYLINDER                                      | 1        |
| 012  | <b>9016.090.040.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM                             | 1*CHOOSE |
| 012  | <b>9016.090.040.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM                              | 1*CHOOSE |
| 012  | <b>9016.100.040.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM                            | 1*CHOOSE |
| 012  | <b>9016.100.040.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM                             | 1*CHOOSE |
| 012  | <b>8016.090.040.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM                             | 1*OPTION |
| 012  | <b>8016.090.040.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM                              | 1*OPTION |
| 012  | <b>8016.100.040.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM                            | 1*OPTION |
| 012  | <b>8016.100.040.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM                             | 1*OPTION |
| 013  | <b>8107.0143.1880.001</b>     | KIT SENSORE DI SICUREZZA / SECURITY SENSOR KIT / KIT SENSOR FÜR SICHERHEIT                 | 1*OPTION |
| 014  | <b>9004.1250.001</b>          | SEEGER / SEEGER / SEEGERRING   | 2        |
| 015  | <b>9004.1300.001</b>          | SEEGER / SEEGER / SEEGERRING   | 2        |
| 016  | <b>9004.1250.001</b>          | SEEGER / SEEGER / SEEGERRING   | 2        |
| 017  | <b>9005.0125.0030.001</b>     | CUSCINETTO / BEARING / LAGER   | 2        |
| 018  | <b>9006.003</b>               | INGRASSATORE / NIPPLE / SCHMIERUNG   | 1        |
| 019  | <b>9004.2220.001</b>          | SEEGER / SEEGER / SEEGERRING   | 1        |
| 020  | <b>8006.0130.0218.065.001</b> | RONDELLA / WASHER / UNTERLEGSCHIBE   | 1        |
| 022  | <b>9007.08.045.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X45  | 4        |
| 023  | <b>9028.060.020.8735</b>      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D6X20   | 2        |
| 025  | <b>9007.06.014.129.1.5933</b> | VITE / SCREW / SCHRAUBE M6X14  | 1        |
| 026  | <b>9004.2680.001</b>          | SEEGER / SEEGER / SEEGERRING   | 1        |

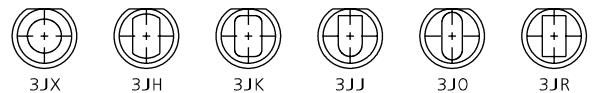
002 (8001) LEVA / LEVER / NOCKE



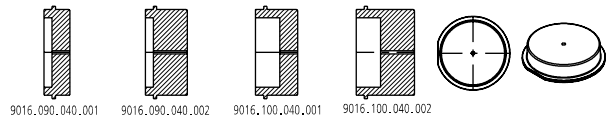
010 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



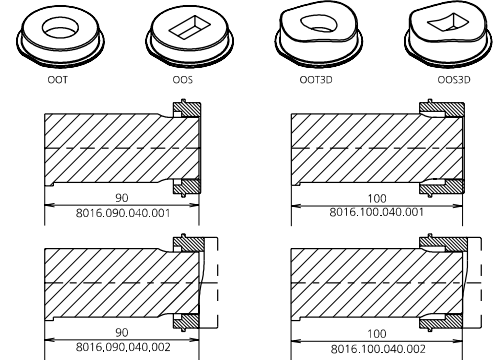
010 (093J\_) PUNZONE SAGOMATO / SHAPED PUNCH / GEFORMT SCHNEIDSTEMPEL ISO8020



012 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



012 (8016) PREMILAMIERA SAGOMATO / SHAPED BLANKHOLDER / GEFORMT BLECHHALTER



013 (8107) SENSORE / SENSOR / SENSOR



**13** PATENT PENDING

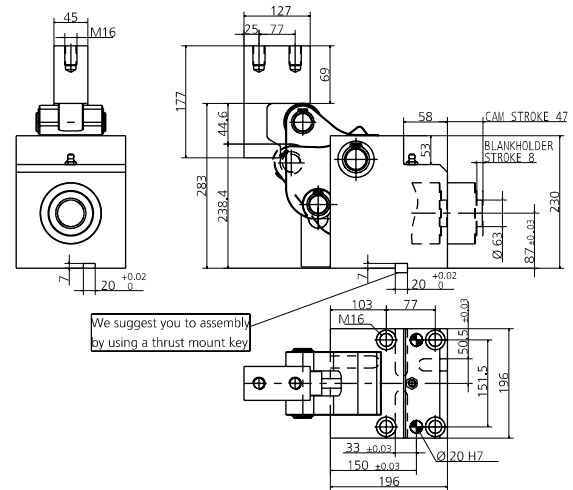
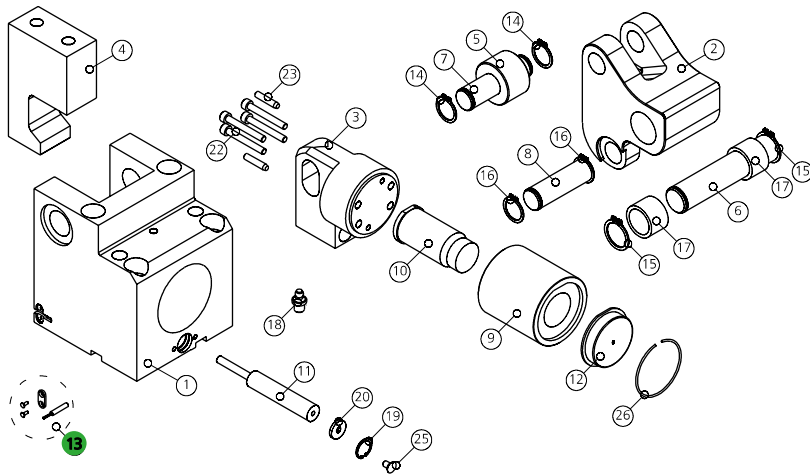
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0143.1880** INCLINAZIONE **+10°** BLANKHOLDER **9016/8016.** OPTION CODE **8001.0043.1180.610**



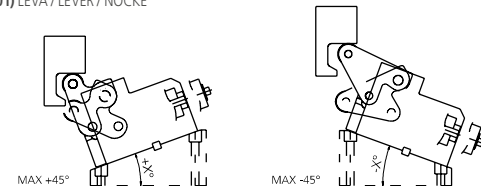
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **3300 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **7250 daN**  
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SPORZO MAX TRANCIO **30000 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE

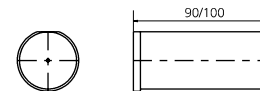


| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0043.3300</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE  | 1        |
| 002  | <b>8001.0043.3300.000</b>     | LEVA / LEVER / NOCKE 0   | 1        |
| 002  | <b>8001.0043.3300.615</b>     | LEVA / LEVER / NOCKE +0.01 +15   | 1*OPTION |
| 002  | <b>8001.0043.3300.630</b>     | LEVA / LEVER / NOCKE +15.01 +30  | 1*OPTION |
| 002  | <b>8001.0043.3300.645</b>     | LEVA / LEVER / NOCKE +30.01 +45  | 1*OPTION |
| 002  | <b>8001.0043.3300.715</b>     | LEVA / LEVER / NOCKE -0.01 -15   | 1*OPTION |
| 002  | <b>8001.0043.3300.730</b>     | LEVA / LEVER / NOCKE -15.01 -30  | 1*OPTION |
| 002  | <b>8001.0043.3300.745</b>     | LEVA / LEVER / NOCKE -30.01 -45  | 1*OPTION |
| 003  | <b>8002.0043.3300</b>         | FLANGIA / FLANGE / FLANSCH   | 1        |
| 004  | <b>8003.1770.1270.450.001</b> | INCUDINE / ANVIL / DRUCKSTÜCK  | 1*OPTION |
| 005  | <b>8004.0700.0400.350.001</b> | ROTELLA / ROLLER / ROLLE   | 1        |
| 006  | <b>8005.1955.1838.400.001</b> | PERNO / PIN / STIFT  | 1        |
| 007  | <b>8005.1160.1068.350.001</b> | PERNO / PIN / STIFT  | 1        |
| 008  | <b>8005.1060.0966.350.001</b> | PERNO / PIN / STIFT  | 1        |
| 009  | <b>9030.063.001</b>           | CILINDRO SPECIALE / SPECIAL CYLINDER / SPEZIALZYLINDER                                     | 1        |
| 010  | <b>9090.3JBM2.630.090</b>     | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 63 90  | 1*OPTION |
| 010  | <b>9090.3JBM2.630.100</b>     | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 63 100 | 1*OPTION |
| 010  | <b>093J_M2.630.090</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 63 90  | 1*OPTION |
| 010  | <b>093J_M2.630.100</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 63 100 | 1*OPTION |
| 011  | <b>9000.0050.0019.001</b>     | CILINDRO DI RITORNO / RETURN CYLINDER / RÜCK ZYLINDER                                      | 1        |
| 012  | <b>9016.090.063.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM                             | 1*CHOOSE |
| 012  | <b>9016.090.063.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM                              | 1*CHOOSE |
| 012  | <b>9016.100.063.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM                            | 1*CHOOSE |
| 012  | <b>9016.100.063.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM                             | 1*CHOOSE |
| 012  | <b>8016.090.063.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM                             | 1*OPTION |
| 012  | <b>8016.090.063.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM                              | 1*OPTION |
| 012  | <b>8016.100.063.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM                            | 1*OPTION |
| 012  | <b>8016.100.063.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM                             | 1*OPTION |
| 013  | <b>8107.0143.3303.001</b>     | KIT SENSORE DI SICUREZZA / SECURITY SENSOR KIT / KIT SENSOR FÜR SICHERHEIT                 | 1*OPTION |
| 014  | <b>9004.1350.001</b>          | SEGER / SEEGER / SEEGERRING  | 2        |
| 015  | <b>9004.1400.001</b>          | SEGER / SEEGER / SEEGERRING  | 2        |
| 016  | <b>9004.1350.001</b>          | SEGER / SEEGER / SEEGERRING  | 2        |
| 017  | <b>9005.0120.0040.001</b>     | CUSCINETTO / BEARING / LAGER   | 2        |
| 018  | <b>9006.003</b>               | INGRASSATORE / NIPPLE / SCHMIERUNG   | 1        |
| 019  | <b>9004.2220.001</b>          | SEGER / SEEGER / SEEGERRING  | 1        |
| 020  | <b>8006.0130.0218.065.001</b> | RONDELLA / WASHER / UNTERLEGSCHIBE   | 1        |
| 022  | <b>9007.08.045.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X45  | 1        |
| 023  | <b>9028.080.030.8735</b>      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D8X30   | 2        |
| 025  | <b>9007.06.014.129.1.5933</b> | VITE / SCREW / SCHRAUBE M6X14  | 1        |
| 026  | <b>9004.2980.001</b>          | SEGER / SEEGER / SEEGERRING  | 1        |

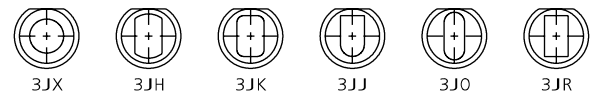
002 (8001) LEVA / LEVER / NOCKE



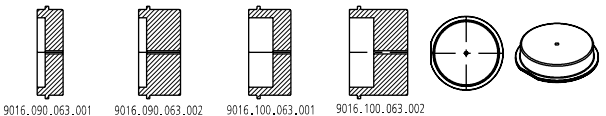
0010 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



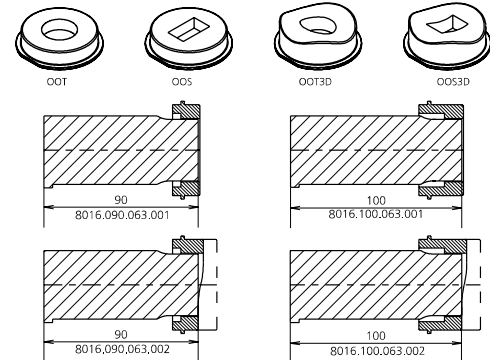
010 (093J\_) PUNZONE SAGOMATO / SHAPED PUNCH / GEFORMT SCHNEIDSTEMPEL ISO8020



012 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



012 (8016) PREMILAMIERA SAGOMATO / SHAPED BLANKHOLDER / GEFORMT BLECHHALTER



013 (8107) SENSORE / SENSOR / SENSOR



13 PATENT PENDING



## CAM MASE

- IT** Modello rappresentante il top di gamma della produzione Newstark, che ingloba soluzioni innovative e uniche: sistema di estrazione dell'utensile dalla lamiera mediante azoto integrato nel punzone standard ISO, quindi facilmente reperibile nel mercato, di potenza fino a 30'000 daN., che può essere eventualmente sagomato rispetto a geometrie di tranciatura desiderate. Questa innovazione permette di aumentare in modo esponenziale la durata del prodotto e le possibilità applicative. Può essere montata in posizione orizzontale o inclinata.
- EN** This model represents the top of Newstark's production, range which incorporates market unique and innovative solutions. The system fits an ISO standard direct integrated punch, easily available on the market, that can eventually be shaped to match with required geometries with power up to 30'000 daN. This innovative system enables the increasing of the application possibilities and exponentially allows his life duration. Can be fitted horizontally or inclined.
- DE** Das Top-Modell der Newstark Stanzeinheiten mit einzigartigen und innovativen Lösungen. Die integrierte Stanzeinheit mit Gasdruckfederniederhalter. Diese bietet einen herausnehmbaren Niederhalterkopf mit bearbeitbarer Kontur und eine Stempelaufnahmemöglichkeit für ISO 8020- Schneidstempel, auch mit Formansatz bei einer Stanzkraft bis zu 30'000 daN ohne die Baulänge der Stanzeinheit unnötig zu vergrößern. Dieses System ermöglicht im Vergleich zu herkömmlichen Systemen eine bis zu drei mal höhere Abstreifkraft.
- FR** Modèle représentant le haut de gamme de la production Newstark, qui intègre des solutions innovantes et uniques: système d'extraction de l'outil de la tôle au moyen d'azote intégré dans le poinçon standard ISO, donc facilement disponible sur le marché, d'une puissance allant jusqu'à 30'000 daN, qui peut éventuellement être façonné en fonction des formes de découpage souhaitées. Cette innovation permet une augmentation exponentielle de la durée de vie du produit et des possibilités d'application. Elle peut être montée en position horizontale ou inclinée.

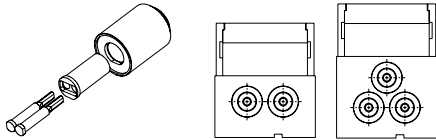


### PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE



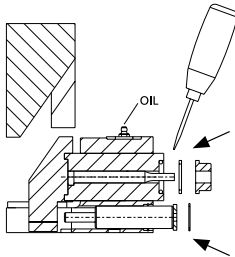
# CAM MASE

ESEMPI DI APPLICAZIONI SPECIALI / EXAMPLES OF SPECIAL APPLICATIONS / BEISPIELE FÜR SPEZIELLE ANWENDUNGEN  
EXEMPLE D'APPLICATIONS SPÉCIALES



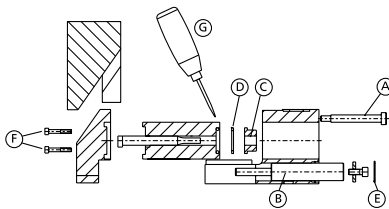
- !** È possibile inserire più punzoni nella stessa unità!  
It is possible put more punches in the same unit!  
Es ist möglich, setzen mehr Lochstempel in der gleichen Einheit!  
Il est possible d'insérer plusieurs poinçons dans la même unité!

DISEGNO DEL MONTAGGIO / MOUNTING DESIGN / MONTAGEZEICHNUNG / DESSIN DU MONTAGE



- !** **ATTENZIONE:**  
**per eseguire la prova manualmente togliere il cilindro come indicato.**  
ATTENTION:  
in order to manually perform the test, extract the cylinder as indicated.  
ACHTUNG:  
Stickstoffzylinder verbaut, Schieber nur in Grundstellung öffnen.  
ATTENTION:  
pour effectuer le test, retirer manuellement le cylindre comme indiqué.

SMONTAGGIO PRODOTTO MASE / PRODUCT DISASSEMBLY MASE / DEMONTAGE DES PRODUKTES MASE / DÉMONTAGE PRODUIT MASE



- !** **ATTENZIONE: cilindro a gas in pressione.**  
ATTENTION: gas cylinder under pressure.  
ACHTUNG: Gasdruckfeder steht unter hohem Druck.  
ATTENTION: cylindre à gaz sous pression.

- IT** **Attenzione: Assicurarsi che la camma sia nella sua posizione normale prima di eseguire qualsiasi lavoro di smontaggio o manutenzione.**
1. Togliere il cilindro "B" rimuovendo il seeger "E" come indicato.
  2. Togliere la slitta ed il cilindro speciale rimuovendo le viti "A".
  3. Togliere viti "F" per controllare il punzone.
  4. Rimuovere il seeger "D" togliendo lo stripper "C".  
L'utensile "G" per rimuovere "D" è a disposizione su richiesta.
  5. Eseguire le verifiche.
  6. Rimontare con cura lubrificando con grasso bisolfuro di Molibdeno (MoS<sub>2</sub>). L'uso di questo grasso viene consigliato da Newstark.
  7. Assicurare il corretto riposizionamento dei singoli componenti.  
Lubrificare durante l'uso con grasso bisolfuro di Molibdeno (MoS<sub>2</sub>).

- EN** **Attention: Undertake reassembly or maintenance work only when the cam unit is in its basic position.**
1. Take off the cylinder "B" by removing the seeger "E" as shown.
  2. Take off the slider and the special cylinder by removing the screws "A" as shown.
  3. Take off the screws "F" to change the punch.
  4. Take off the seeger "D" by removing stripper "C".  
The tool "G" to remove "D" is available on request.
  5. Check the components.
  6. Reassemble carefully using grease with disulfide molybdeno (MoS<sub>2</sub>).  
The use of this grease is recommended by Newstark.
  7. Ensure the correct positioning of the individual components.  
During use lubricate with grease with disulfide molybdeno (MoS<sub>2</sub>).

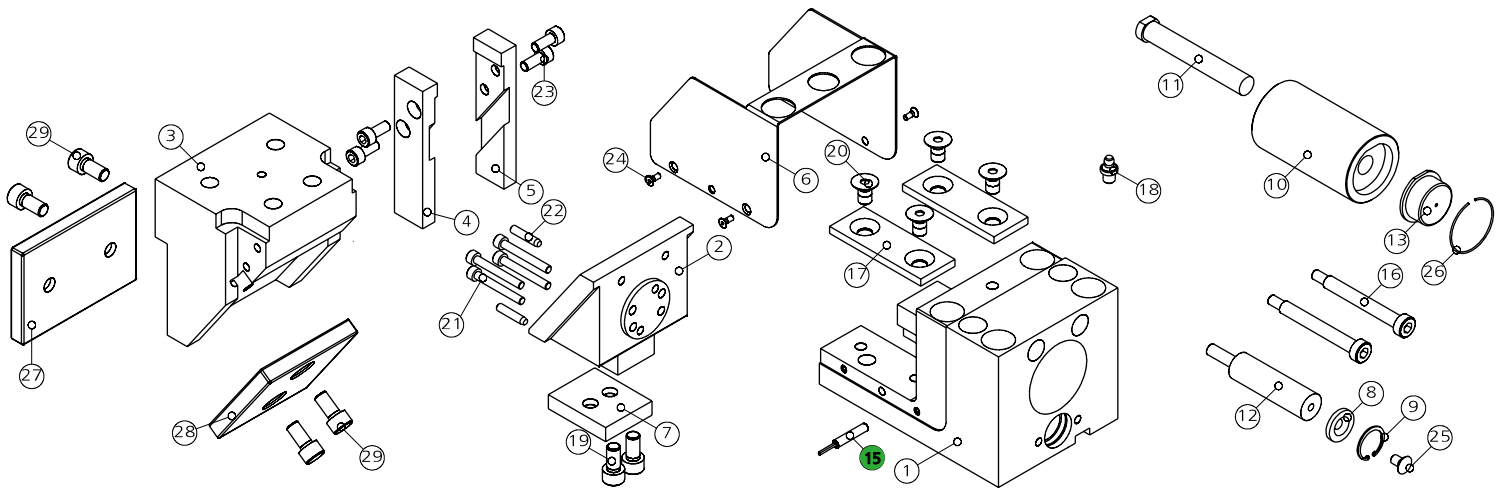
- DE** **Achtung: Wartungs- und Demontearbeiten nur in Grundstellung der Stanzeinheit vornehmen.**
1. Seegering "E" entfernen um den Gasdruckfeder "B" herauszuziehen.
  2. Lagerkeil und spezielle Zylinder herausnehmen um Schrauben "A" herausziehen.
  3. Schrauben "F" lösen um den Lochstempel zu wechseln.
  4. Sprengring "D" herausnehmen um den Abstreifer "C" zu entfernen.  
Ein Werkzeug "G" zur Entfernung von Teil "D" ist auf Anfrage lieferbar.
  5. Komponenten prüfen.
  6. Montage in umgekehrter Reihenfolge unter Verwendung von Molybdändisulfidfett (MoS<sub>2</sub>). Die Verwendung dieses Fett wird durch Newstark empfohlen.
  7. Auf richtigen Sitz der einzelnen Komponenten achten.  
Während des Gebrauches, mit Molybdändisulfidfett (MoS<sub>2</sub>) nachschmieren.

- FR** **Attention: S'assurer d'abord que la came est dans sa position normale avant d'effectuer tout travail de démontage ou de maintenance.**
1. Retirer le cylindres "B" en retirant le circlip "E" comme indiqué.
  2. Retirer la glissière et le cylindre spécial en retirant les vis "A".
  3. Retirer les vis "F" pour contrôler le poinçon.
  4. Enlever le circlip "D" en enlevant le stripper "C".  
L'outil "G" pour enlever "D" est disponible sur demande.
  5. Effectuer les contrôles.
  6. Remonter soigneusement en lubrifiant avec de la graisse au bisulfure de molybdène (MoS<sub>2</sub>). Newstark recommande l'utilisation de cette graisse.
  7. S'assurer que les différents éléments sont correctement repositionnés.  
Lubrifier avec de la graisse au bisulfure de molybdène (MoS<sub>2</sub>).

# 0147.5050 - CAM MASE505-10

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **505 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1110 daN**  
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **4500 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE



| POS. | CODE                          | DESCRIPTION   | Q.TY     |
|------|-------------------------------|---|----------|
| 001  | <b>8000.0047.0505</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE   | 1        |
| 002  | <b>8111.0047.0005.00.001</b>  | SLITTA / SLIDER / LAGERKEIL 0°  | 1*CHOOSE |
| 002  | <b>8111.0047.0005.05.001</b>  | SLITTA / SLIDER / LAGERKEIL +5°   | 1*CHOOSE |
| 002  | <b>8111.0047.0005.10.001</b>  | SLITTA / SLIDER / LAGERKEIL +10°  | 1*CHOOSE |
| 002  | <b>8111.0047.0005.15.001</b>  | SLITTA / SLIDER / LAGERKEIL +15°  | 1*CHOOSE |
| 003  | <b>8116.0047.0005.00.001</b>  | CUNEO / WEDGE / DRUCKSTÜCK 0°   | 1*CHOOSE |
| 003  | <b>8116.0047.0005.05.001</b>  | CUNEO / WEDGE / DRUCKSTÜCK -5°  | 1*CHOOSE |
| 003  | <b>8116.0047.0005.10.001</b>  | CUNEO / WEDGE / DRUCKSTÜCK -10°   | 1*CHOOSE |
| 003  | <b>8116.0047.0005.15.001</b>  | CUNEO / WEDGE / DRUCKSTÜCK -15°   | 1*CHOOSE |
| 004  | <b>8115.0047.0005.00.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 0°                               | 1*CHOOSE |
| 004  | <b>8115.0047.0005.05.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -5°                              | 1*CHOOSE |
| 004  | <b>8115.0047.0005.10.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -10°                             | 1*CHOOSE |
| 004  | <b>8115.0047.0005.15.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -15°                             | 1*CHOOSE |
| 005  | <b>8115.0047.0005.00.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 0°                               | 1*CHOOSE |
| 005  | <b>8115.0047.0005.05.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -5°                              | 1*CHOOSE |
| 005  | <b>8115.0047.0005.10.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -10°                             | 1*CHOOSE |
| 005  | <b>8115.0047.0005.15.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -15°                             | 1*CHOOSE |
| 006  | <b>8010.0047.0505</b>         | COPERCHIO / COVER / KOPFPLATTE  | 1        |
| 007  | <b>8011.0047.0505</b>         | PIASTRA / PLATE / PLATTE  | 1        |
| 008  | <b>8006.0130.0218.065.001</b> | RONDELLA / WASHER / UNTERLEGSCHIBE  | 1        |
| 009  | <b>9004.2220.001</b>          | SEEGER / SEEGER / SEEGERRING  | 1        |
| 010  | <b>9030.010.001</b>           | CILINDRO SPECIALE / SPECIAL CYLINDER / SPEZIALZYLINDER  | 1        |
| 011  | <b>9090.3JBM2.100.090</b>     | PUNZONE SBOZZATO TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 90  | 1*OPTION |
| 011  | <b>9090.3JBM2.100.100</b>     | PUNZONE SBOZZATO TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 100 | 1*OPTION |
| 011  | <b>093J_M2.100.090</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 90           | 1*OPTION |

| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 011  | <b>093J_M2.100.100</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 100 | 1*OPTION |
| 012  | <b>9000.0025.0019.004</b>     | CILINDRO DI RITORNO / RETURN CYLINDER / RÜCK ZYLINDER                                      | 1        |
| 013  | <b>9016.090.010.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM                             | 1*CHOOSE |
| 013  | <b>9016.090.010.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM                              | 1*CHOOSE |
| 013  | <b>9016.100.010.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM                            | 1*CHOOSE |
| 013  | <b>9016.100.010.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM                             | 1*CHOOSE |
| 013  | <b>8016.090.010.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM                             | 1*OPTION |
| 013  | <b>8016.090.010.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM                              | 1*OPTION |
| 013  | <b>8016.100.010.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM                            | 1*OPTION |
| 013  | <b>8016.100.010.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM                             | 1*OPTION |
| 015  | <b>9003.0001</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT                             | 1*OPTION |
| 016  | <b>9008.0608.055</b>          | VITE A COLLETO / SHOULDER SCREW / ANSATZSCHRAUBE   | 2        |
| 017  | <b>8012.0700.0280.050.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE  | 2        |
| 018  | <b>9006.002</b>               | INGRASSATORE / NIPPLES / SCHMIERUNG  | 1        |
| 019  | <b>9007.06.010.088.1.9327</b> | VITE / SCREW / SCHRAUBE M6X10  | 2        |
| 020  | <b>9007.08.010.129.1.5933</b> | VITE / SCREW / SCHRAUBE M8X10  | 4        |
| 021  | <b>9007.04.020.129.1.4762</b> | VITE / SCREW / SCHRAUBE M4X20  | 4        |
| 022  | <b>9028.04.010.8735</b>       | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D4X10   | 2        |
| 023  | <b>9007.06.012.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X12  | 4        |
| 024  | <b>9007.03.005.048.1.7687</b> | VITE / SCREW / SCHRAUBE M3X5   | 4        |
| 025  | <b>9007.06.014.129.1.5933</b> | VITE / SCREW / SCHRAUBE M6X14  | 1        |
| 026  | <b>9004.2290.001</b>          | SEEGER / SEEGER / SEEGERRING   | 1        |
| 027  | <b>8012.0810.0550.100.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE  | 1        |
| 028  | <b>8012.0650.0600.100.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE  | 1        |
| 029  | <b>9007.08.016.109.1.9327</b> | VITE / SCREW / SCHRAUBE M8X16  | 4        |



# 0147.6953 - CAM MASE695-13

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **695 daN**

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1530 daN**

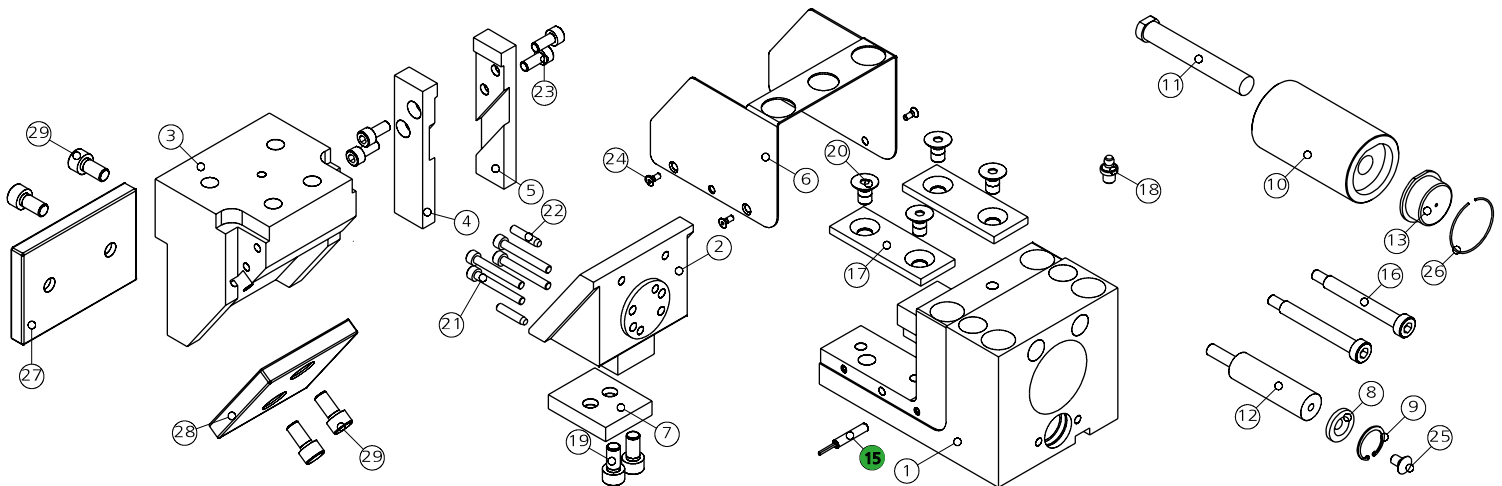
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **6000 daN**

CUTTING MAX FORCE

MAXIMALE SCHNITTKRAFT

EFFORT MAXI DÉCOUPE



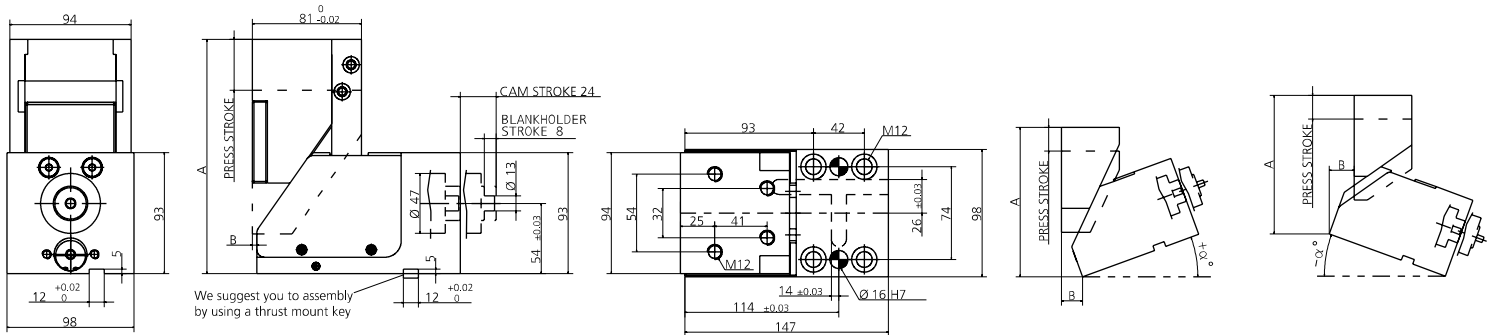
| POS. | CODE                          | DESCRIPTION   | Q.TY     |
|------|-------------------------------|---|----------|
| 001  | <b>8000.0047.0695</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE   | 1        |
| 002  | <b>8111.0047.0006.00.001</b>  | SLITTA / SLIDER / LAGERKEIL 0°  | 1*CHOOSE |
| 002  | <b>8111.0047.0006.05.001</b>  | SLITTA / SLIDER / LAGERKEIL +5°   | 1*CHOOSE |
| 002  | <b>8111.0047.0006.10.001</b>  | SLITTA / SLIDER / LAGERKEIL +10°  | 1*CHOOSE |
| 002  | <b>8111.0047.0006.15.001</b>  | SLITTA / SLIDER / LAGERKEIL +15°  | 1*CHOOSE |
| 003  | <b>8116.0047.0006.00.001</b>  | CUNEO / WEDGE / DRUCKSTÜCK 0°   | 1*CHOOSE |
| 003  | <b>8116.0047.0006.05.001</b>  | CUNEO / WEDGE / DRUCKSTÜCK -5°  | 1*CHOOSE |
| 003  | <b>8116.0047.0006.10.001</b>  | CUNEO / WEDGE / DRUCKSTÜCK -10°   | 1*CHOOSE |
| 003  | <b>8116.0047.0006.15.001</b>  | CUNEO / WEDGE / DRUCKSTÜCK -15°   | 1*CHOOSE |
| 004  | <b>8115.0047.0006.00.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 0°                               | 1*CHOOSE |
| 004  | <b>8115.0047.0006.05.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -5°                              | 1*CHOOSE |
| 004  | <b>8115.0047.0006.10.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -10°                             | 1*CHOOSE |
| 004  | <b>8115.0047.0006.15.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -15°                             | 1*CHOOSE |
| 005  | <b>8115.0047.0006.00.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 0°                               | 1*CHOOSE |
| 005  | <b>8115.0047.0006.05.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -5°                              | 1*CHOOSE |
| 005  | <b>8115.0047.0006.10.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -10°                             | 1*CHOOSE |
| 005  | <b>8115.0047.0006.15.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -15°                             | 1*CHOOSE |
| 006  | <b>8010.0047.0695</b>         | COPERCHIO / COVER / KOPFPLATTE  | 1        |
| 007  | <b>8011.0047.0695</b>         | PIASTRA / PLATE / PLATTE  | 1        |
| 008  | <b>8006.0130.0218.065.001</b> | RONDELLA / WASHER / UNTERLEGSCHIBE  | 1        |
| 009  | <b>9004.2220.001</b>          | SEEGER / SEEGER / SEEGERRING  | 1        |
| 010  | <b>9030.013.001</b>           | CILINDRO SPECIALE / SPECIAL CYLINDER / SPEZIALZYLINDER  | 1        |
| 011  | <b>9090.3JBM2.130.090</b>     | PUNZONE SBOZZATO TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 90  | 1*OPTION |
| 011  | <b>9090.3JBM2.130.100</b>     | PUNZONE SBOZZATO TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 100 | 1*OPTION |
| 011  | <b>093J_M2.130.090</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 90           | 1*OPTION |

| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 011  | <b>093J_M2.130.100</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 100 | 1*OPTION |
| 012  | <b>9000.0025.0019.004</b>     | CILINDRO DI RITORNO / RETURN CYLINDER / RÜCK ZYLINDER                                      | 1        |
| 013  | <b>9016.090.136.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM                             | 1*CHOOSE |
| 013  | <b>9016.090.136.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM                              | 1*CHOOSE |
| 013  | <b>9016.100.136.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM                            | 1*CHOOSE |
| 013  | <b>9016.100.136.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM                             | 1*CHOOSE |
| 013  | <b>8016.090.136.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM                             | 1*OPTION |
| 013  | <b>8016.090.136.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM                              | 1*OPTION |
| 013  | <b>8016.100.136.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM                            | 1*OPTION |
| 013  | <b>8016.100.136.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM                             | 1*OPTION |
| 015  | <b>9003.0001</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT                             | 1*OPTION |
| 016  | <b>9008.0608.060</b>          | VITE A COLLETO / SHOULDER SCREW / ANSATZSCHRAUBE   | 2        |
| 017  | <b>9012.0750.0280.050.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE  | 2        |
| 018  | <b>9006.002</b>               | INGRASSATORE / NIPPLES / SCHMIERUNG  | 1        |
| 019  | <b>9007.08.012.088.1.9327</b> | VITE / SCREW / SCHRAUBE M8X12  | 2        |
| 020  | <b>9007.08.010.129.1.5933</b> | VITE / SCREW / SCHRAUBE M8X10  | 4        |
| 021  | <b>9007.05.025.129.1.4762</b> | VITE / SCREW / SCHRAUBE M5X25  | 4        |
| 022  | <b>9028.05.012.8735</b>       | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D5X12   | 2        |
| 023  | <b>9007.06.012.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X12  | 4        |
| 024  | <b>9007.03.005.048.1.7687</b> | VITE / SCREW / SCHRAUBE M3X5   | 4        |
| 025  | <b>9007.06.014.129.1.5933</b> | VITE / SCREW / SCHRAUBE M6X14  | 1        |
| 026  | <b>9004.2350.001</b>          | SEEGER / SEEGER / SEEGERRING   | 1        |
| 027  | <b>8012.0940.0650.100.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE  | 1        |
| 028  | <b>8012.0750.0730.100.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE  | 1        |
| 029  | <b>9007.08.016.109.1.9327</b> | VITE / SCREW / SCHRAUBE M8X16  | 4        |



FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **695 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1530 daN**  
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION

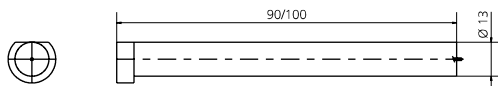
SFORZO MAX TRANCIO **6000 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE



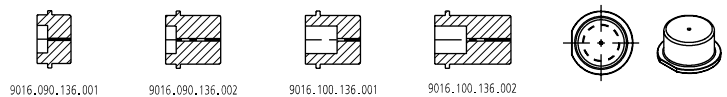
| $\alpha^\circ$ | PRESS STROKE | A      | B     |
|----------------|--------------|--------|-------|
| 0°             | 34.1         | 172.17 | 3.82  |
| +5°            | 32.05        | 174.98 | 12.37 |
| +10°           | 29.6         | 173.74 | 20.09 |
| +15°           | 26.9         | 171.99 | 31.29 |
| -5°            | 30.6         | 170.17 | 1.82  |
| -10°           | 27.8         | 158.17 | 14.68 |
| -15°           | 25.65        | 151.75 | 16.68 |

\* PER INCLINAZIONI FUORI STANDARD RIVOLGERSI ALL'UFFICIO TECNICONESTARK / \* FOR NON-STANDARD INCLINATIONS, PLEASE CONTACT NEWSTARK TECHNICAL OFFICE.  
 / \* FÜR NICHT STANDARDMÄSSIGE NEIGUNGEN WENDEN SIE SICH BITTE AN DAS TECHNISCHE BÜRO VON NEWSTARK

0011 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



013 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



011 (093J) PUNZONE SAGOMATO / SHAPED PUNCH / GEFORMT SCHNEIDSTEMPEL ISO8020



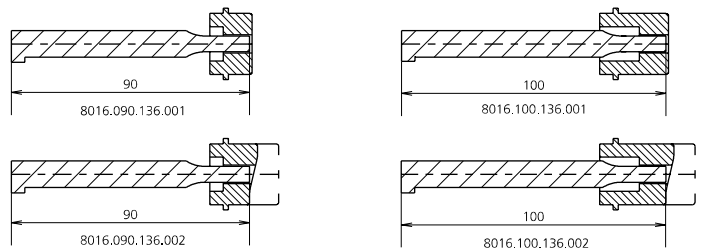
013 (8016) PREMILAMIERA SAGOMATO / SHAPED BLANKHOLDER / GEFORMT BLECHHALTER (OPTION)



015 (9003) SENSORE / SENSOR / SENSOR



15 PATENT PENDING



# 0147.6956 - CAM MASE695-16

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **695 daN**

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1530 daN**

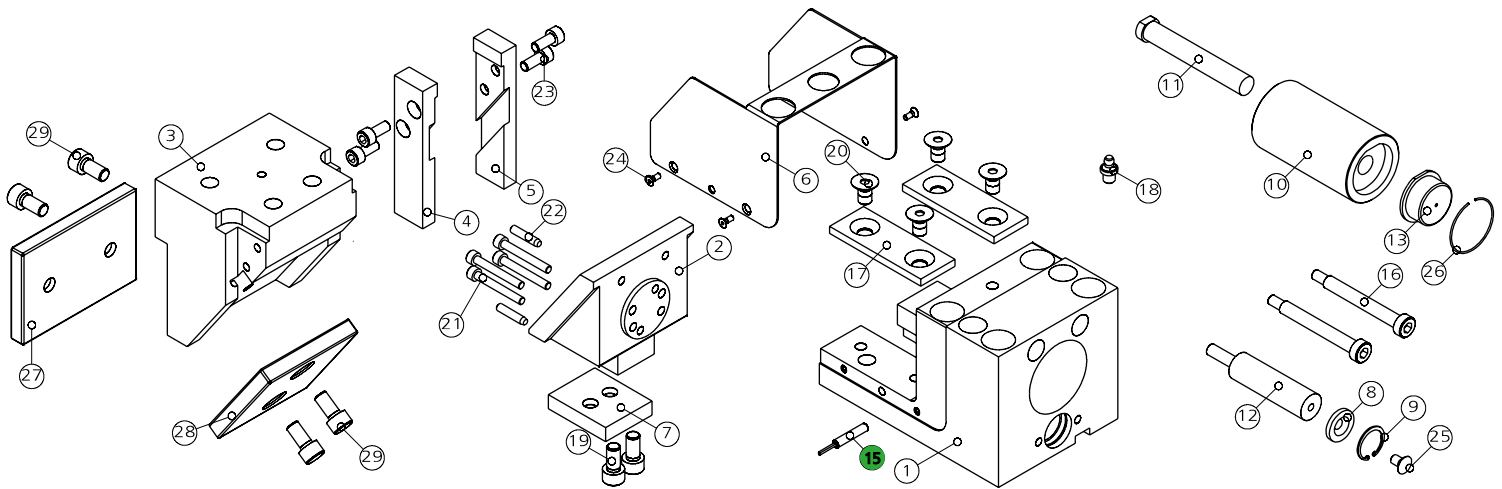
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **6000 daN**

CUTTING MAX FORCE

MAXIMALE SCHNITTKRAFT

EFFORT MAXI DÉCOUPE



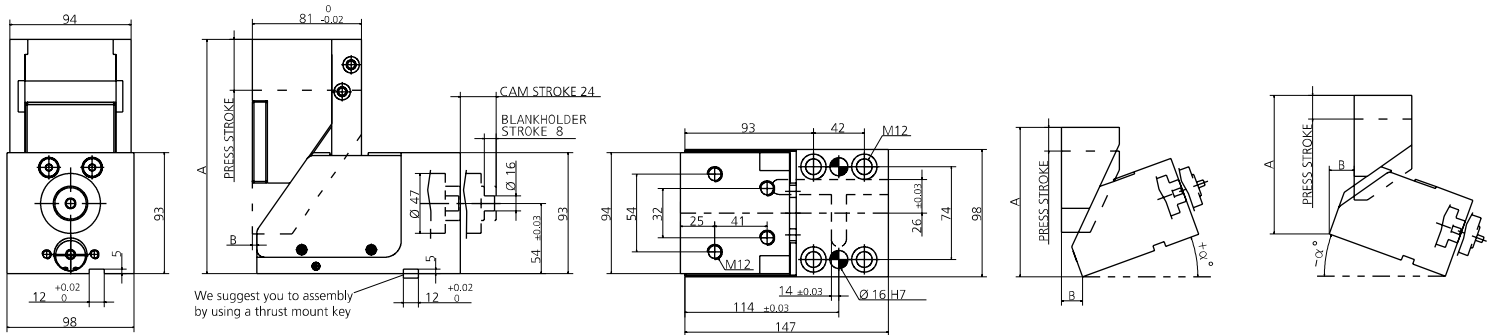
| POS. | CODE                          | DESCRIPTION   | Q.TY     |
|------|-------------------------------|---|----------|
| 001  | <b>8000.0047.0695</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE   | 1        |
| 002  | <b>8111.0047.0006.00.001</b>  | SLITTA / SLIDER / LAGERKEIL 0°  | 1*CHOOSE |
| 002  | <b>8111.0047.0006.05.001</b>  | SLITTA / SLIDER / LAGERKEIL +5°   | 1*CHOOSE |
| 002  | <b>8111.0047.0006.10.001</b>  | SLITTA / SLIDER / LAGERKEIL +10°  | 1*CHOOSE |
| 002  | <b>8111.0047.0006.15.001</b>  | SLITTA / SLIDER / LAGERKEIL +15°  | 1*CHOOSE |
| 003  | <b>8116.0047.0006.00.001</b>  | CUNEO / WEDGE / DRUCKSTÜCK 0°   | 1*CHOOSE |
| 003  | <b>8116.0047.0006.05.001</b>  | CUNEO / WEDGE / DRUCKSTÜCK -5°  | 1*CHOOSE |
| 003  | <b>8116.0047.0006.10.001</b>  | CUNEO / WEDGE / DRUCKSTÜCK -10°   | 1*CHOOSE |
| 003  | <b>8116.0047.0006.15.001</b>  | CUNEO / WEDGE / DRUCKSTÜCK -15°   | 1*CHOOSE |
| 004  | <b>8115.0047.0006.00.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 0°                               | 1*CHOOSE |
| 004  | <b>8115.0047.0006.05.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -5°                              | 1*CHOOSE |
| 004  | <b>8115.0047.0006.10.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -10°                             | 1*CHOOSE |
| 004  | <b>8115.0047.0006.15.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -15°                             | 1*CHOOSE |
| 005  | <b>8115.0047.0006.00.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 0°                               | 1*CHOOSE |
| 005  | <b>8115.0047.0006.05.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -5°                              | 1*CHOOSE |
| 005  | <b>8115.0047.0006.10.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -10°                             | 1*CHOOSE |
| 005  | <b>8115.0047.0006.15.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -15°                             | 1*CHOOSE |
| 006  | <b>8010.0047.0695</b>         | COPERCHIO / COVER / KOPFPLATTE  | 1        |
| 007  | <b>8011.0047.0695</b>         | PIASTRA / PLATE / PLATTE  | 1        |
| 008  | <b>8006.0130.0218.065.001</b> | RONDELLA / WASHER / UNTERLEGSCHIBE  | 1        |
| 009  | <b>9004.2220.001</b>          | SEEGER / SEEGER / SEEGERRING  | 1        |
| 010  | <b>9030.016.001</b>           | CILINDRO SPECIALE / SPECIAL CYLINDER / SPEZIALZYLINDER  | 1        |
| 011  | <b>9090.3JBM2.160.090</b>     | PUNZONE SBOZZATO TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 90  | 1*OPTION |
| 011  | <b>9090.3JBM2.160.100</b>     | PUNZONE SBOZZATO TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 100 | 1*OPTION |
| 011  | <b>093J_M2.160.090</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 90           | 1*OPTION |

| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 011  | <b>093J_M2.160.100</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 100 | 1*OPTION |
| 012  | <b>9000.0025.0019.004</b>     | CILINDRO DI RITORNO / RETURN CYLINDER / RÜCK ZYLINDER                                      | 1        |
| 013  | <b>9016.090.136.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM                             | 1*CHOOSE |
| 013  | <b>9016.090.136.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM                              | 1*CHOOSE |
| 013  | <b>9016.100.136.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM                            | 1*CHOOSE |
| 013  | <b>9016.100.136.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM                             | 1*CHOOSE |
| 013  | <b>8016.090.136.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM                             | 1*OPTION |
| 013  | <b>8016.090.136.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM                              | 1*OPTION |
| 013  | <b>8016.100.136.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM                            | 1*OPTION |
| 013  | <b>8016.100.136.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM                             | 1*OPTION |
| 015  | <b>9003.0001</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT                             | 1*OPTION |
| 016  | <b>9008.0608.060</b>          | VITE A COLLETTO / SHOULDER SCREW / ANSATZSCHRAUBE  | 2        |
| 017  | <b>9012.0750.0280.050.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE  | 2        |
| 018  | <b>9006.002</b>               | INGRASSATORE / NIPPLES / SCHMIERUNG  | 1        |
| 019  | <b>9007.08.012.088.1.9327</b> | VITE / SCREW / SCHRAUBE M8X12  | 2        |
| 020  | <b>9007.08.010.129.1.5933</b> | VITE / SCREW / SCHRAUBE M8X10  | 4        |
| 021  | <b>9007.05.025.129.1.4762</b> | VITE / SCREW / SCHRAUBE M5X25  | 4        |
| 022  | <b>9028.05.012.8735</b>       | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D5X12   | 2        |
| 023  | <b>9007.06.012.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X12  | 4        |
| 024  | <b>9007.03.005.048.1.7687</b> | VITE / SCREW / SCHRAUBE M3X5   | 4        |
| 025  | <b>9007.06.014.129.1.5933</b> | VITE / SCREW / SCHRAUBE M6X14  | 1        |
| 026  | <b>9004.2350.001</b>          | SEEGER / SEEGER / SEEGERRING   | 1        |
| 027  | <b>8012.0940.0650.100.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE  | 1        |
| 028  | <b>8012.0750.0730.100.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE  | 1        |
| 029  | <b>9007.08.016.109.1.9327</b> | VITE / SCREW / SCHRAUBE M8X16  | 4        |



FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **695 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1530 daN**  
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **6000 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE

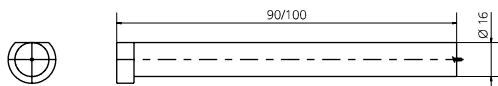


We suggest you to assembly by using a thrust mount key

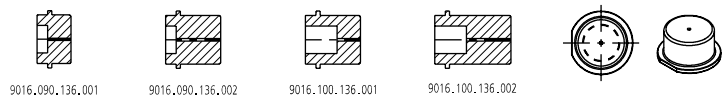
| $\alpha^\circ$ | PRESS STROKE | A      | B     |
|----------------|--------------|--------|-------|
| 0°             | 34.1         | 172.17 | 3.82  |
| +5°            | 32.05        | 174.98 | 12.37 |
| +10°           | 29.6         | 173.74 | 20.09 |
| +15°           | 26.9         | 171.99 | 31.29 |
| -5°            | 30.6         | 170.17 | 1.82  |
| -10°           | 27.8         | 158.17 | 14.68 |
| -15°           | 25.65        | 151.75 | 16.68 |

\* PER INCLINAZIONI FUORI STANDARD RIVOLGERSI ALL'UFFICIO TECNICONEWSTARK / \* FOR NON-STANDARD INCLINATIONS, PLEASECONTACT NEWSTARK TECHNICAL OFFICE.  
 / \* FÜR NICHT STANDARDMÄSSIGE NEIGUNGEN WENDEN SIE SICH BITTE AN DAS TECHNISCHE BÜRO VON NEWSTARK

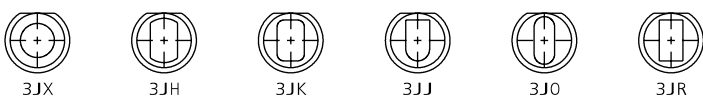
0011 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



013 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



011 (093J\_) PUNZONE SAGOMATO / SHAPED PUNCH / GEFORMT SCHNEIDSTEMPEL ISO8020



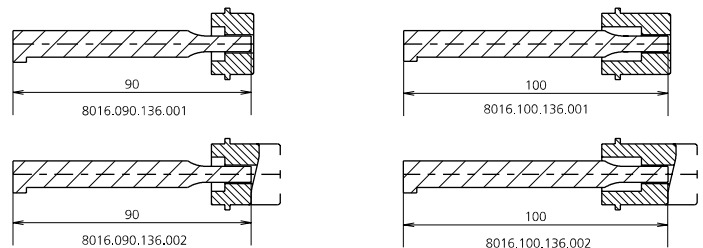
013 (8016) PREMILAMIERA SAGOMATO / SHAPED BLANKHOLDER / GEFORMT BLECHHALTER (OPTION)



015 (9003) SENSORE / SENSOR / SENSOR



15 PATENT PENDING



# 0147.1160 - CAM MASE1160-20

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **1160 daN**

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **2550 daN**

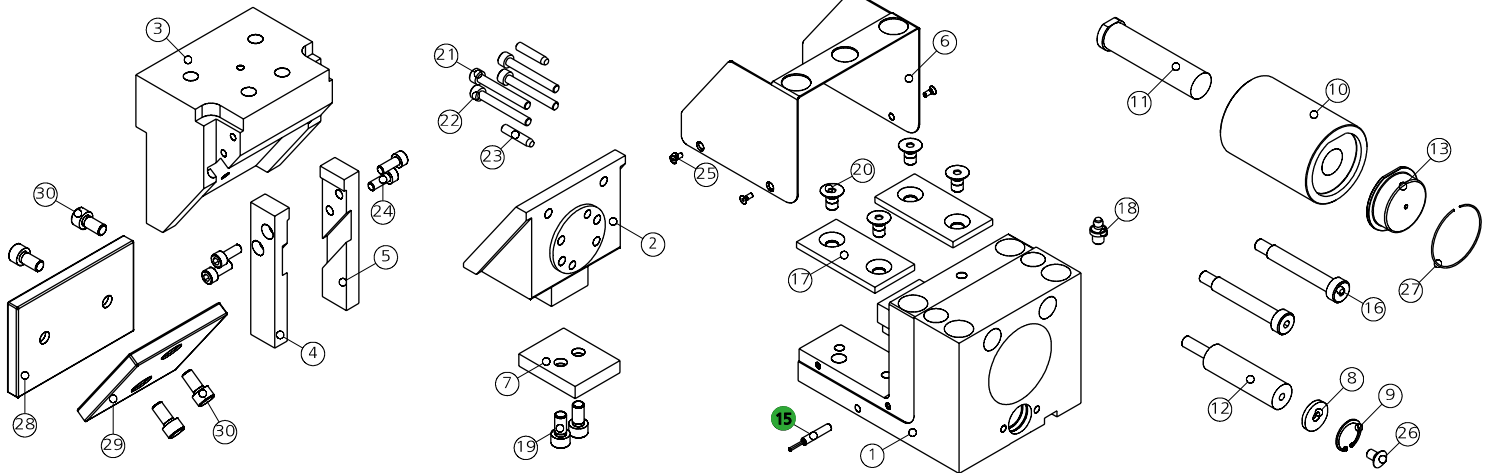
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **9000 daN**

CUTTING MAX FORCE

MAXIMALE SCHNITTKRAFT

EFFORT MAXI DÉCOUPE

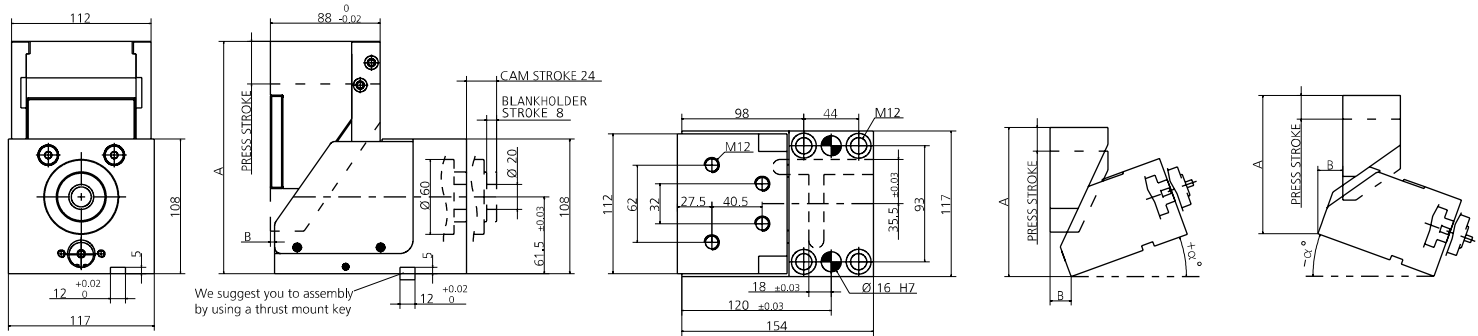


| POS. | CODE                          | DESCRIPTION   | Q.TY     |
|------|-------------------------------|---|----------|
| 001  | <b>8000.0047.1160</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE   | 1        |
| 002  | <b>8111.0047.0011.00.001</b>  | SLITTA / SLIDER / LAGERKEIL 0°  | 1*CHOOSE |
| 002  | <b>8111.0047.0011.05.001</b>  | SLITTA / SLIDER / LAGERKEIL +5°   | 1*CHOOSE |
| 002  | <b>8111.0047.0011.10.001</b>  | SLITTA / SLIDER / LAGERKEIL +10°  | 1*CHOOSE |
| 002  | <b>8111.0047.0011.15.001</b>  | SLITTA / SLIDER / LAGERKEIL +15°  | 1*CHOOSE |
| 003  | <b>8116.0047.0011.00.001</b>  | CUNEO / WEDGE / DRUCKSTÜCK 0°   | 1*CHOOSE |
| 003  | <b>8116.0047.0011.05.001</b>  | CUNEO / WEDGE / DRUCKSTÜCK -5°  | 1*CHOOSE |
| 003  | <b>8116.0047.0011.10.001</b>  | CUNEO / WEDGE / DRUCKSTÜCK -10°   | 1*CHOOSE |
| 003  | <b>8116.0047.0011.15.001</b>  | CUNEO / WEDGE / DRUCKSTÜCK -15°   | 1*CHOOSE |
| 004  | <b>8115.0047.0011.00.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 0°                               | 1*CHOOSE |
| 004  | <b>8115.0047.0011.05.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -5°                              | 1*CHOOSE |
| 004  | <b>8115.0047.0011.10.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -10°                             | 1*CHOOSE |
| 004  | <b>8115.0047.0011.15.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -15°                             | 1*CHOOSE |
| 005  | <b>8115.0047.0011.00.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 0°                               | 1*CHOOSE |
| 005  | <b>8115.0047.0011.05.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -5°                              | 1*CHOOSE |
| 005  | <b>8115.0047.0011.10.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -10°                             | 1*CHOOSE |
| 005  | <b>8115.0047.0011.15.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -15°                             | 1*CHOOSE |
| 006  | <b>8010.0047.1160</b>         | COPERCHIO / COVER / KOPFPLATTE  | 1        |
| 007  | <b>8011.0047.1160</b>         | PIASTRA / PLATE / PLATTE  | 1        |
| 008  | <b>8006.0130.0218.065.001</b> | RONDELLA / WASHER / UNTERLEGSCHIBE  | 1        |
| 009  | <b>9004.2220.001</b>          | SEEGER / SEEGER / SEEGERRING  | 1        |
| 010  | <b>9030.020.001</b>           | CILINDRO SPECIALE / SPECIAL CYLINDER / SPEZIALZYLINDER  | 1        |
| 011  | <b>9090.3JBM2.200.090</b>     | PUNZONE SBOZZATO TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 20 90  | 1*OPTION |
| 011  | <b>9090.3JBM2.200.100</b>     | PUNZONE SBOZZATO TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 20 100 | 1*OPTION |
| 011  | <b>093J_M2.200.090</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 20 90           | 1*OPTION |
| 011  | <b>093J_M2.200.100</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 20 100          | 1*OPTION |

| POS. | CODE                          | DESCRIPTION   | Q.TY     |
|------|-------------------------------|---|----------|
| 012  | <b>9000.0025.0019.004</b>     | CILINDRO DI RITORNO / RETURN CYLINDER / RÜCK ZYLINDER           | 1        |
| 013  | <b>9016.090.205.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM  | 1*CHOOSE |
| 013  | <b>9016.090.205.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM   | 1*CHOOSE |
| 013  | <b>9016.100.205.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM | 1*CHOOSE |
| 013  | <b>9016.100.205.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM  | 1*CHOOSE |
| 013  | <b>8016.090.205.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM  | 1*OPTION |
| 013  | <b>8016.090.205.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM   | 1*OPTION |
| 013  | <b>8016.100.205.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM | 1*OPTION |
| 013  | <b>8016.100.205.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM  | 1*OPTION |
| 015  | <b>9003.0001</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT  | 1*OPTION |
| 016  | <b>9008.0810.060</b>          | VITE A COLLETTO / SHOULDER SCREW / ANSATZSCHRAUBE               | 2        |
| 017  | <b>9012.0750.0380.050.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE               | 2        |
| 018  | <b>9006.002</b>               | INGRASSATORE / NIPPLES / SCHMIERUNG                             | 1        |
| 019  | <b>9007.08.012.088.1.9327</b> | VITE / SCREW / SCHRAUBE M8X12                                   | 2        |
| 020  | <b>9007.08.010.129.1.5933</b> | VITE / SCREW / SCHRAUBE M8X10                                   | 4        |
| 021  | <b>9007.06.040.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X40                                   | 2        |
| 022  | <b>9007.06.050.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X50                                   | 2        |
| 023  | <b>9028.06.020.8735</b>       | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D6X20              | 2        |
| 024  | <b>9007.06.016.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X16                                   | 4        |
| 025  | <b>9007.03.005.048.1.7687</b> | VITE / SCREW / SCHRAUBE M3X5                                    | 4        |
| 026  | <b>9007.06.014.129.1.5933</b> | VITE / SCREW / SCHRAUBE M6X14                                   | 1        |
| 027  | <b>9004.2480.001</b>          | SEEGER / SEEGER / SEEGERRING                                    | 1        |
| 028  | <b>8012.1120.0750.100.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE               | 1        |
| 029  | <b>8012.0880.0870.100.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE               | 1        |
| 030  | <b>9007.08.016.109.1.9327</b> | VITE / SCREW / SCHRAUBE M8X16                                   | 4        |

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **1160 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **2550 daN**  
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

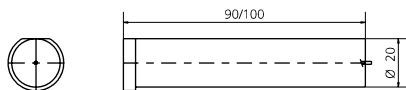
SFORZO MAX TRANCIO **9000 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE



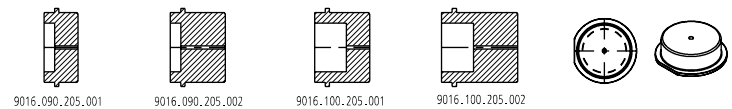
| $\alpha^\circ$ | PRESS STROKE | A      | B     |
|----------------|--------------|--------|-------|
| 0°             | 34.1         | 186.18 | 3.38  |
| +5°            | 32.05        | 189.33 | 13.46 |
| +10°           | 29.6         | 186.77 | 23.52 |
| +15°           | 26.9         | 186.43 | 34.43 |
| -5°            | 30.6         | 183.18 | 6.62  |
| -10°           | 27.8         | 182.18 | 13.12 |
| -15°           | 25.65        | 175.18 | 21.12 |

\* PER INCLINAZIONI FUORI STANDARD RIVOLGERSI ALL'UFFICIO TECNICONESTARK / \* FOR NON-STANDARD INCLINATIONS, PLEASE CONTACT NEWSTARK TECHNICAL OFFICE.  
 /\* FÜR NICHT STANDARDMÄSSIGE NEIGUNGEN WENDEN SIE SICH BITTE AN DAS TECHNISCHE BÜRO VON NEWSTARK

0011 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



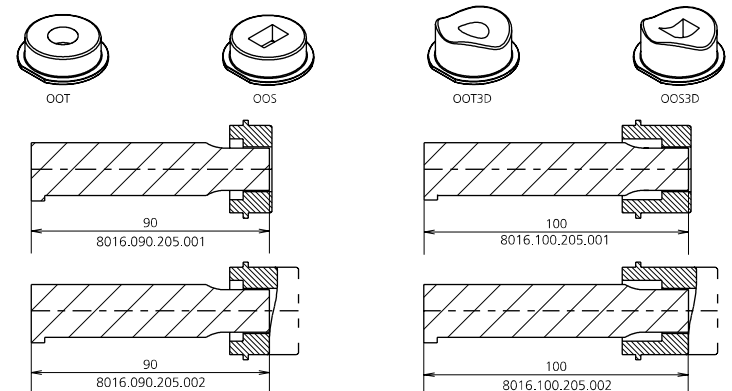
013 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



011 (093J\_) PUNZONE SAGOMATO / SHAPED PUNCH / GEFORMT SCHNEIDSTEMPEL ISO8020



013 (8016) PREMILAMIERA SAGOMATO / SHAPED BLANKHOLDER / GEFORMT BLECHHALTER (OPTION)



015 (9003) SENSORE / SENSOR / SENSOR



15 PATENT PENDING

# 0147.1165 - CAM MASE1160-25

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **1160 daN**

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **2550 daN**

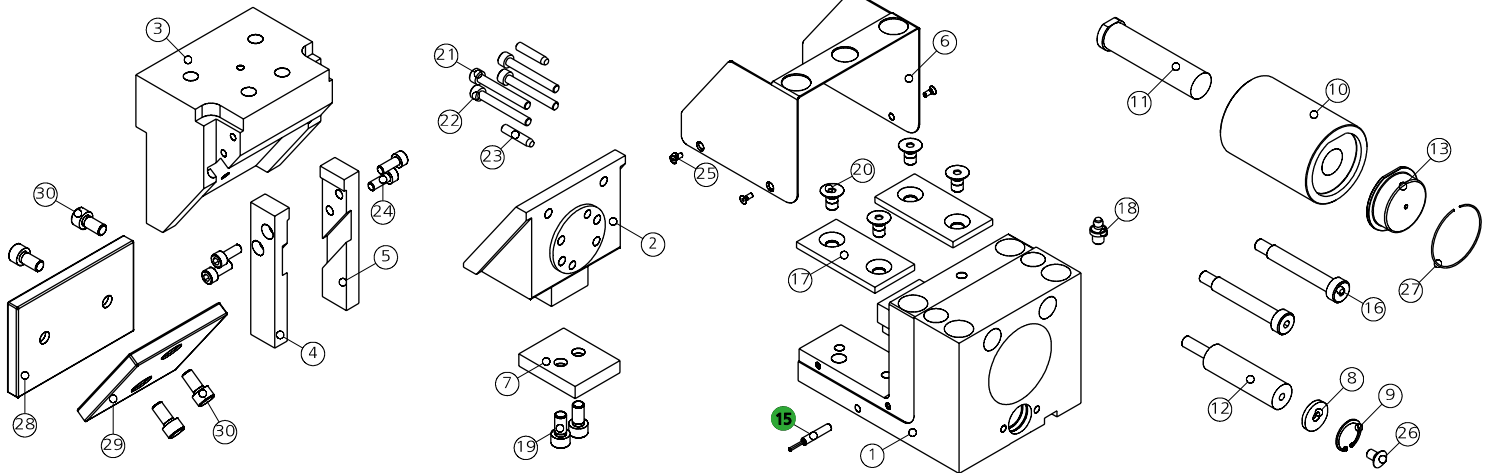
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **9000 daN**

CUTTING MAX FORCE

MAXIMALE SCHNITTKRAFT

EFFORT MAXI DÉCOUPE

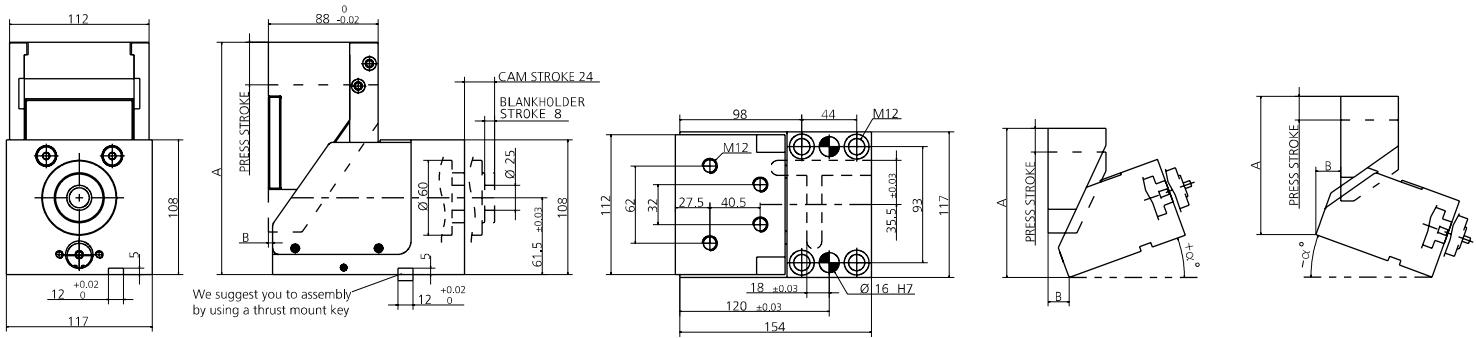


| POS. | CODE                          | DESCRIPTION   | Q.TY     |
|------|-------------------------------|---|----------|
| 001  | <b>8000.0047.1160</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE   | 1        |
| 002  | <b>8111.0047.0011.00.001</b>  | SLITTA / SLIDER / LAGERKEIL 0°  | 1*CHOOSE |
| 002  | <b>8111.0047.0011.05.001</b>  | SLITTA / SLIDER / LAGERKEIL +5°   | 1*CHOOSE |
| 002  | <b>8111.0047.0011.10.001</b>  | SLITTA / SLIDER / LAGERKEIL +10°  | 1*CHOOSE |
| 002  | <b>8111.0047.0011.15.001</b>  | SLITTA / SLIDER / LAGERKEIL +15°  | 1*CHOOSE |
| 003  | <b>8116.0047.0011.00.001</b>  | CUNEO / WEDGE / DRUCKSTÜCK 0°   | 1*CHOOSE |
| 003  | <b>8116.0047.0011.05.001</b>  | CUNEO / WEDGE / DRUCKSTÜCK -5°  | 1*CHOOSE |
| 003  | <b>8116.0047.0011.10.001</b>  | CUNEO / WEDGE / DRUCKSTÜCK -10°   | 1*CHOOSE |
| 003  | <b>8116.0047.0011.15.001</b>  | CUNEO / WEDGE / DRUCKSTÜCK -15°   | 1*CHOOSE |
| 004  | <b>8115.0047.0011.00.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 0°                               | 1*CHOOSE |
| 004  | <b>8115.0047.0011.05.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -5°                              | 1*CHOOSE |
| 004  | <b>8115.0047.0011.10.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -10°                             | 1*CHOOSE |
| 004  | <b>8115.0047.0011.15.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -15°                             | 1*CHOOSE |
| 005  | <b>8115.0047.0011.00.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 0°                               | 1*CHOOSE |
| 005  | <b>8115.0047.0011.05.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -5°                              | 1*CHOOSE |
| 005  | <b>8115.0047.0011.10.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -10°                             | 1*CHOOSE |
| 005  | <b>8115.0047.0011.15.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -15°                             | 1*CHOOSE |
| 006  | <b>8010.0047.1160</b>         | COPERCHIO / COVER / KOPFPLATTE  | 1        |
| 007  | <b>8011.0047.1160</b>         | PIASTRA / PLATE / PLATTE  | 1        |
| 008  | <b>8006.0130.0218.065.001</b> | RONDELLA / WASHER / UNTERLEGSCHIBE  | 1        |
| 009  | <b>9004.2220.001</b>          | SEEGER / SEEGER / SEEGERRING  | 1        |
| 010  | <b>9030.025.001</b>           | CILINDRO SPECIALE / SPECIAL CYLINDER / SPEZIALZYLINDER  | 1        |
| 011  | <b>9090.3JBM2.250.090</b>     | PUNZONE SBOZZATO TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 25 90  | 1*OPTION |
| 011  | <b>9090.3JBM2.250.100</b>     | PUNZONE SBOZZATO TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 25 100 | 1*OPTION |
| 011  | <b>093J_M2.250.090</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 25 90           | 1*OPTION |
| 011  | <b>093J_M2.250.100</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 25 100          | 1*OPTION |

| POS. | CODE                          | DESCRIPTION   | Q.TY     |
|------|-------------------------------|---|----------|
| 012  | <b>9000.0025.0019.004</b>     | CILINDRO DI RITORNO / RETURN CYLINDER / RÜCK ZYLINDER           | 1        |
| 013  | <b>9016.090.205.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM  | 1*CHOOSE |
| 013  | <b>9016.090.205.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM   | 1*CHOOSE |
| 013  | <b>9016.100.205.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM | 1*CHOOSE |
| 013  | <b>9016.100.205.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM  | 1*CHOOSE |
| 013  | <b>8016.090.205.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM  | 1*OPTION |
| 013  | <b>8016.090.205.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM   | 1*OPTION |
| 013  | <b>8016.100.205.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM | 1*OPTION |
| 013  | <b>8016.100.205.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM  | 1*OPTION |
| 015  | <b>9003.0001</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT  | 1*OPTION |
| 016  | <b>9008.0810.060</b>          | VITE A COLLETTO / SHOULDER SCREW / ANSATZSCHRAUBE               | 2        |
| 017  | <b>9012.0750.0380.050.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE               | 2        |
| 018  | <b>9006.002</b>               | INGRASSATORE / NIPPLES / SCHMIERUNG                             | 1        |
| 019  | <b>9007.08.012.088.1.9327</b> | VITE / SCREW / SCHRAUBE M8X12                                   | 2        |
| 020  | <b>9007.08.010.129.1.5933</b> | VITE / SCREW / SCHRAUBE M8X10                                   | 4        |
| 021  | <b>9007.06.040.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X40                                   | 2        |
| 022  | <b>9007.06.050.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X50                                   | 2        |
| 023  | <b>9028.06.020.8735</b>       | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D6X20              | 2        |
| 024  | <b>9007.06.016.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X16                                   | 4        |
| 025  | <b>9007.03.005.048.1.7687</b> | VITE / SCREW / SCHRAUBE M3X5                                    | 4        |
| 026  | <b>9007.06.014.129.1.5933</b> | VITE / SCREW / SCHRAUBE M6X14                                   | 1        |
| 027  | <b>9004.2480.001</b>          | SEEGER / SEEGER / SEEGERRING                                    | 1        |
| 028  | <b>8012.1120.0750.100.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE               | 1        |
| 029  | <b>8012.0880.0870.100.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE               | 1        |
| 030  | <b>9007.08.016.109.1.9327</b> | VITE / SCREW / SCHRAUBE M8X16                                   | 4        |

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **1160 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **2550 daN**  
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION

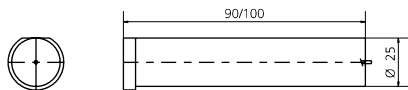
SFORZO MAX TRANCIO **9000 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE



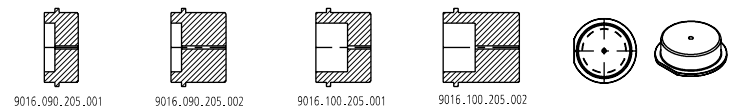
| $\alpha^\circ$ | PRESS STROKE | A      | B     |
|----------------|--------------|--------|-------|
| 0°             | 34.1         | 186.18 | 3.38  |
| +5°            | 32.05        | 189.33 | 13.46 |
| +10°           | 29.6         | 186.77 | 23.52 |
| +15°           | 26.9         | 186.43 | 34.43 |
| -5°            | 30.6         | 183.18 | 6.62  |
| -10°           | 27.8         | 182.18 | 13.12 |
| -15°           | 25.65        | 175.18 | 21.12 |

\* PER INCLINAZIONI FUORI STANDARD RIVOLGERSI ALL'UFFICIO TECNICO NEWSTARK / \* FOR NON-STANDARD INCLINATIONS, PLEASE CONTACT NEWSTARK TECHNICAL OFFICE.  
 / \* FÜR NICHT STANDARDMÄSSIGE NEIGUNGEN WENDEN SIE SICH BITTE AN DAS TECHNISCHE BÜRO VON NEWSTARK

0011 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



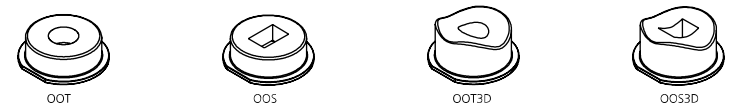
013 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



011 (093J\_) PUNZONE SAGOMATO / SHAPED PUNCH / GEFORMT SCHNEIDSTEMPEL ISO8020



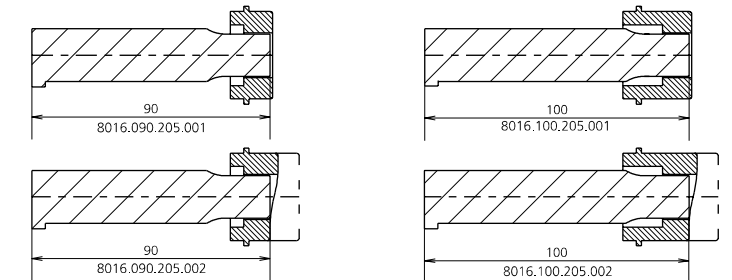
013 (8016) PREMILAMIERA SAGOMATO / SHAPED BLANKHOLDER / GEFORMT BLECHHALTER (OPTION)



015 (9003) SENSORE / SENSOR / SENSOR



15 PATENT PENDING



# 0147.1392 - CAM MASE1390-32

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **1390 daN**

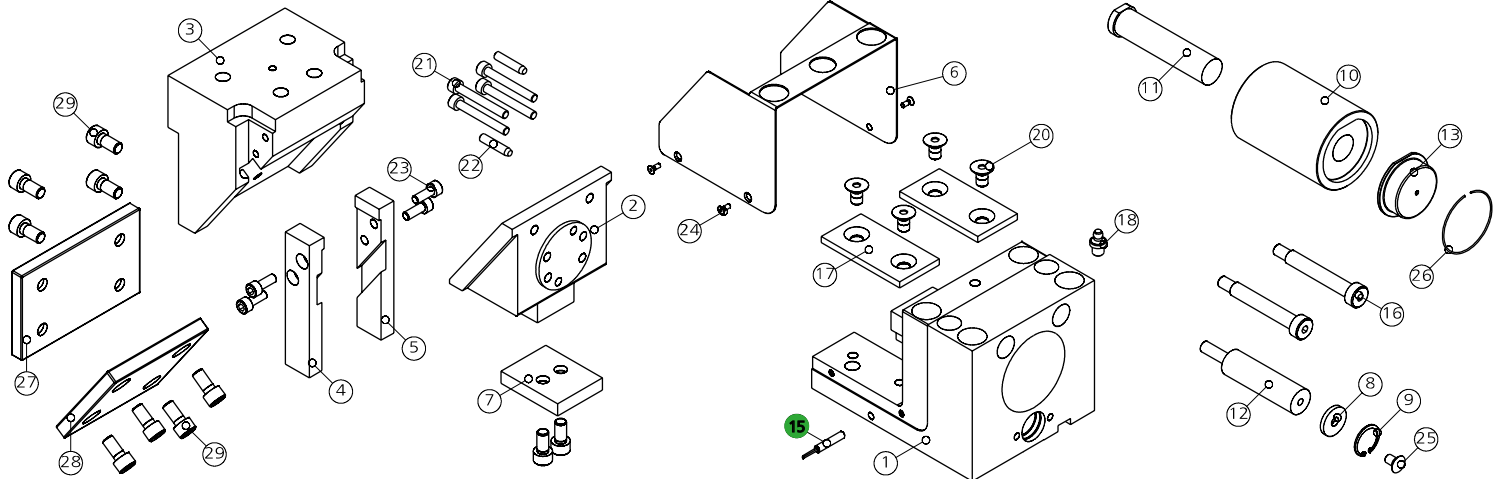
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **3050 daN**

ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **12000 daN**

CUTTING MAX FORCE  
MAXIMALE SCHNITTKRAFT  
EFFORT MAXI DÉCOUPE



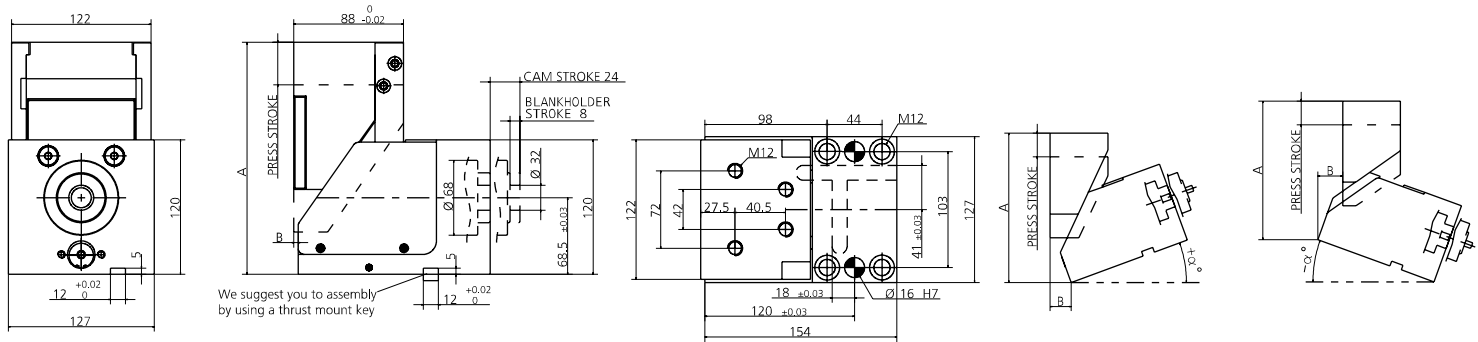
| POS. | CODE                          | DESCRIPTION   | Q.TY     |
|------|-------------------------------|---|----------|
| 001  | <b>8000.0047.1390</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE   | 1        |
| 002  | <b>8111.0047.0013.00.001</b>  | SLITTA / SLIDER / LAGERKEIL 0°  | 1*CHOOSE |
| 002  | <b>8111.0047.0013.05.001</b>  | SLITTA / SLIDER / LAGERKEIL +5°   | 1*CHOOSE |
| 002  | <b>8111.0047.0013.10.001</b>  | SLITTA / SLIDER / LAGERKEIL +10°  | 1*CHOOSE |
| 002  | <b>8111.0047.0013.15.001</b>  | SLITTA / SLIDER / LAGERKEIL +15°  | 1*CHOOSE |
| 003  | <b>8116.0047.0013.00.001</b>  | CUNEO / WEDGE / DRUCKSTÜCK 0°   | 1*CHOOSE |
| 003  | <b>8116.0047.0013.05.001</b>  | CUNEO / WEDGE / DRUCKSTÜCK -5°  | 1*CHOOSE |
| 003  | <b>8116.0047.0013.10.001</b>  | CUNEO / WEDGE / DRUCKSTÜCK -10°   | 1*CHOOSE |
| 003  | <b>8116.0047.0013.15.001</b>  | CUNEO / WEDGE / DRUCKSTÜCK -15°   | 1*CHOOSE |
| 004  | <b>8115.0047.0013.00.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 0°                               | 1*CHOOSE |
| 004  | <b>8115.0047.0013.05.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -5°                              | 1*CHOOSE |
| 004  | <b>8115.0047.0013.10.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -10°                             | 1*CHOOSE |
| 004  | <b>8115.0047.0013.15.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -15°                             | 1*CHOOSE |
| 005  | <b>8115.0047.0013.00.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 0°                               | 1*CHOOSE |
| 005  | <b>8115.0047.0013.05.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -5°                              | 1*CHOOSE |
| 005  | <b>8115.0047.0013.10.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -10°                             | 1*CHOOSE |
| 005  | <b>8115.0047.0013.15.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -15°                             | 1*CHOOSE |
| 006  | <b>8010.0047.1390</b>         | COPERCHIO / COVER / KOPFPLATTE  | 1        |
| 007  | <b>8011.0047.1390</b>         | PIASTRA / PLATE / PLATTE  | 1        |
| 008  | <b>8006.0130.0218.065.001</b> | RONDELLA / WASHER / UNTERLEGSCHIBE  | 1        |
| 009  | <b>9004.2220.001</b>          | SEEGER / SEEGER / SEEGERRING  | 1        |
| 010  | <b>9030.032.001</b>           | CILINDRO SPECIALE / SPECIAL CYLINDER / SPEZIALZYLINDER  | 1        |
| 011  | <b>9090.3JBM2.320.090</b>     | PUNZONE SBOZZATO TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 32 90  | 1*OPTION |
| 011  | <b>9090.3JBM2.320.100</b>     | PUNZONE SBOZZATO TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 32 100 | 1*OPTION |
| 011  | <b>093J_M2.320.090</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 32 90           | 1*OPTION |

| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 011  | <b>093J_M2.320.100</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 32 100 | 1*OPTION |
| 012  | <b>9000.0025.0019.004</b>     | CILINDRO DI RITORNO / RETURN CYLINDER / RÜCK ZYLINDER                                      | 1        |
| 013  | <b>9016.090.032.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM                             | 1*CHOOSE |
| 013  | <b>9016.090.032.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM                              | 1*CHOOSE |
| 013  | <b>9016.100.032.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM                            | 1*CHOOSE |
| 013  | <b>9016.100.032.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM                             | 1*CHOOSE |
| 013  | <b>8016.090.032.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM                             | 1*OPTION |
| 013  | <b>8016.090.032.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM                              | 1*OPTION |
| 013  | <b>8016.100.032.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM                            | 1*OPTION |
| 013  | <b>8016.100.032.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM                             | 1*OPTION |
| 015  | <b>9003.0001</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT                             | 1*OPTION |
| 016  | <b>9008.0810.060</b>          | VITE A COLLETO / SHOULDER SCREW / ANSATZSCHRAUBE   | 2        |
| 017  | <b>9012.0750.0380.050.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE  | 2        |
| 018  | <b>9006.002</b>               | INGRASSATORE / NIPPLES / SCHMIERUNG  | 1        |
| 019  | <b>9007.08.012.088.1.9327</b> | VITE / SCREW / SCHRAUBE M8X12  | 2        |
| 020  | <b>9007.08.010.129.1.5933</b> | VITE / SCREW / SCHRAUBE M8X10  | 4        |
| 021  | <b>9007.06.035.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X35  | 4        |
| 022  | <b>9028.06.020.8735</b>       | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D6X20   | 2        |
| 023  | <b>9007.06.016.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X16  | 4        |
| 024  | <b>9007.03.005.048.1.7687</b> | VITE / SCREW / SCHRAUBE M3X5   | 4        |
| 025  | <b>9007.06.014.129.1.5933</b> | VITE / SCREW / SCHRAUBE M6X14  | 1        |
| 026  | <b>9004.2570.001</b>          | SEEGER / SEEGER / SEEGERRING   | 1        |
| 027  | <b>8012.1220.0750.100.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE  | 1        |
| 028  | <b>8012.0970.0900.100.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE  | 1        |
| 029  | <b>9007.08.016.109.1.9327</b> | VITE / SCREW / SCHRAUBE M8X16  | 8        |



FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **1390 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **3050 daN**  
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **12000 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE

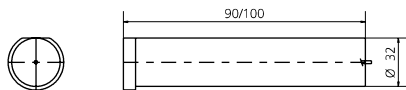


We suggest you to assembly by using a thrust mount key

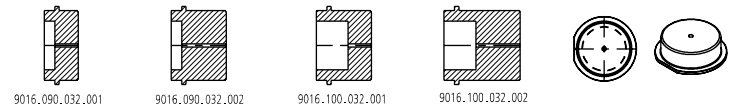
| $\alpha^\circ$ | PRESS STROKE | A      | B     |
|----------------|--------------|--------|-------|
| 0°             | 34.1         | 190.78 | 3     |
| +5°            | 32.05        | 188.73 | 14.59 |
| +10°           | 29.6         | 190.4  | 25.84 |
| +15°           | 26.9         | 187.11 | 37.75 |
| -5°            | 30.6         | 186.78 | 7     |
| -10°           | 27.8         | 183.28 | 14    |
| -15°           | 25.65        | 177.28 | 12.5  |

\* PER INCLINAZIONI FUORI STANDARD RIVOLGERSI ALL'UFFICIO TECNICO NEWSTARK / \* FOR NON-STANDARD INCLINATIONS, PLEASE CONTACT NEWSTARK TECHNICAL OFFICE.  
 / \* FÜR NICHT STANDARDMÄSSIGE NEIGUNGEN WENDEN SIE SICH BITTE AN DAS TECHNISCHE BÜRO VON NEWSTARK

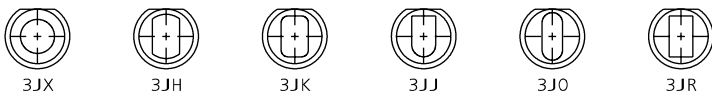
0011 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



013 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



011 (093J\_) PUNZONE SAGOMATO / SHAPED PUNCH / GEFORMT SCHNEIDSTEMPEL ISO8020



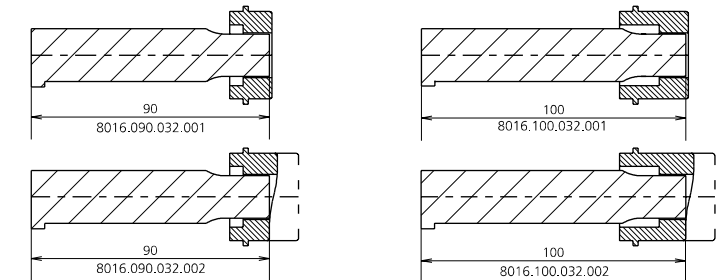
013 (8016) PREMILAMIERA SAGOMATO / SHAPED BLANKHOLDER / GEFORMT BLECHHALTER (OPTION)



015 (9003) SENSORE / SENSOR / SENSOR



15 PATENT PENDING



# 0147.1880 - CAM MASE1880-40

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **1880 daN**

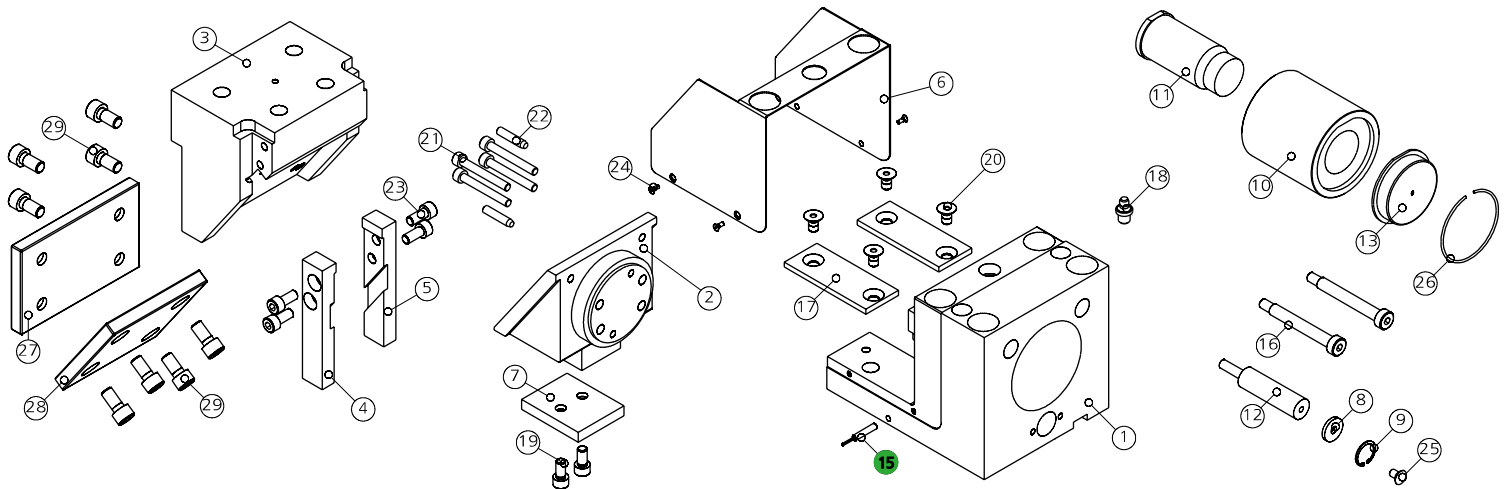
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **4100 daN**

ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **17000 daN**

CUTTING MAX FORCE  
MAXIMALE SCHNITTKRAFT  
EFFORT MAXI DÉCOUPE



| POS. | CODE                          | DESCRIPTION   | Q.TY     |
|------|-------------------------------|---|----------|
| 001  | <b>8000.0047.1880</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE   | 1        |
| 002  | <b>8111.0047.0018.00.001</b>  | SLITTA / SLIDER / LAGERKEIL 0°  | 1*CHOOSE |
| 002  | <b>8111.0047.0018.05.001</b>  | SLITTA / SLIDER / LAGERKEIL +5°   | 1*CHOOSE |
| 002  | <b>8111.0047.0018.10.001</b>  | SLITTA / SLIDER / LAGERKEIL +10°  | 1*CHOOSE |
| 002  | <b>8111.0047.0018.15.001</b>  | SLITTA / SLIDER / LAGERKEIL +15°  | 1*CHOOSE |
| 003  | <b>8116.0047.0018.00.001</b>  | CUNEO / WEDGE / DRUCKSTÜCK 0°   | 1*CHOOSE |
| 003  | <b>8116.0047.0018.05.001</b>  | CUNEO / WEDGE / DRUCKSTÜCK -5°  | 1*CHOOSE |
| 003  | <b>8116.0047.0018.10.001</b>  | CUNEO / WEDGE / DRUCKSTÜCK -10°   | 1*CHOOSE |
| 003  | <b>8116.0047.0018.15.001</b>  | CUNEO / WEDGE / DRUCKSTÜCK -15°   | 1*CHOOSE |
| 004  | <b>8115.0047.0018.00.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 0°                               | 1*CHOOSE |
| 004  | <b>8115.0047.0018.05.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -5°                              | 1*CHOOSE |
| 004  | <b>8115.0047.0018.10.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -10°                             | 1*CHOOSE |
| 004  | <b>8115.0047.0018.15.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -15°                             | 1*CHOOSE |
| 005  | <b>8115.0047.0018.00.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 0°                               | 1*CHOOSE |
| 005  | <b>8115.0047.0018.05.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -5°                              | 1*CHOOSE |
| 005  | <b>8115.0047.0018.10.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -10°                             | 1*CHOOSE |
| 005  | <b>8115.0047.0018.15.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -15°                             | 1*CHOOSE |
| 006  | <b>8010.0047.1880</b>         | COPERCHIO / COVER / KOPFPLATTE  | 1        |
| 007  | <b>8011.0047.1880</b>         | PIASTRA / PLATE / PLATTE  | 1        |
| 008  | <b>8006.0130.0218.065.001</b> | RONDELLA / WASHER / UNTERLEGSCHIBE  | 1        |
| 009  | <b>9004.2220.001</b>          | SEEGER / SEEGER / SEEGERRING  | 1        |
| 010  | <b>9030.040.001</b>           | CILINDRO SPECIALE / SPECIAL CYLINDER / SPEZIALZYLINDER  | 1        |
| 011  | <b>9090.3JBM2.400.090</b>     | PUNZONE SBOZZATO TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 40 90  | 1*OPTION |
| 011  | <b>9090.3JBM2.400.100</b>     | PUNZONE SBOZZATO TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 40 100 | 1*OPTION |
| 011  | <b>093J_M2.400.090</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 40 90           | 1*OPTION |

| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 011  | <b>093J_M2.400.100</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 40 100 | 1*OPTION |
| 012  | <b>9000.0025.0019.004</b>     | CILINDRO DI RITORNO / RETURN CYLINDER / RÜCK ZYLINDER                                      | 1        |
| 013  | <b>9016.090.040.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM                             | 1*CHOOSE |
| 013  | <b>9016.090.040.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM                              | 1*CHOOSE |
| 013  | <b>9016.100.040.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM                            | 1*CHOOSE |
| 013  | <b>9016.100.040.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM                             | 1*CHOOSE |
| 013  | <b>8016.090.040.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM                             | 1*OPTION |
| 013  | <b>8016.090.040.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM                              | 1*OPTION |
| 013  | <b>8016.100.040.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM                            | 1*OPTION |
| 013  | <b>8016.100.040.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM                             | 1*OPTION |
| 015  | <b>9003.0001</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT                             | 1*OPTION |
| 016  | <b>9008.0810.070</b>          | VITE A COLLETO / SHOULDER SCREW / ANSATZSCHRAUBE   | 2        |
| 017  | <b>8012.0950.0380.050.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE  | 2        |
| 018  | <b>9006.002</b>               | INGRASSATORE / NIPPLES / SCHMIERUNG  | 1        |
| 019  | <b>9007.08.012.088.1.9327</b> | VITE / SCREW / SCHRAUBE M8X12  | 2        |
| 020  | <b>9007.08.010.129.1.5933</b> | VITE / SCREW / SCHRAUBE M8X10  | 4        |
| 021  | <b>9007.08.050.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X50  | 4        |
| 022  | <b>9028.06.020.8735</b>       | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D6X20   | 2        |
| 023  | <b>9007.08.016.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X16  | 4        |
| 024  | <b>9007.03.005.048.1.7687</b> | VITE / SCREW / SCHRAUBE M3X5   | 4        |
| 025  | <b>9007.06.014.129.1.5933</b> | VITE / SCREW / SCHRAUBE M6X14  | 1        |
| 026  | <b>9004.2680.001</b>          | SEEGER / SEEGER / SEEGERRING   | 1        |
| 027  | <b>8012.1380.0850.120.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE  | 1        |
| 028  | <b>8012.1090.1050.120.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE  | 1        |
| 029  | <b>9007.10.020.109.1.9327</b> | VITE / SCREW / SCHRAUBE M10X20   | 8        |





# 0147.3303 - CAM MASE3300-63

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **3300 daN**

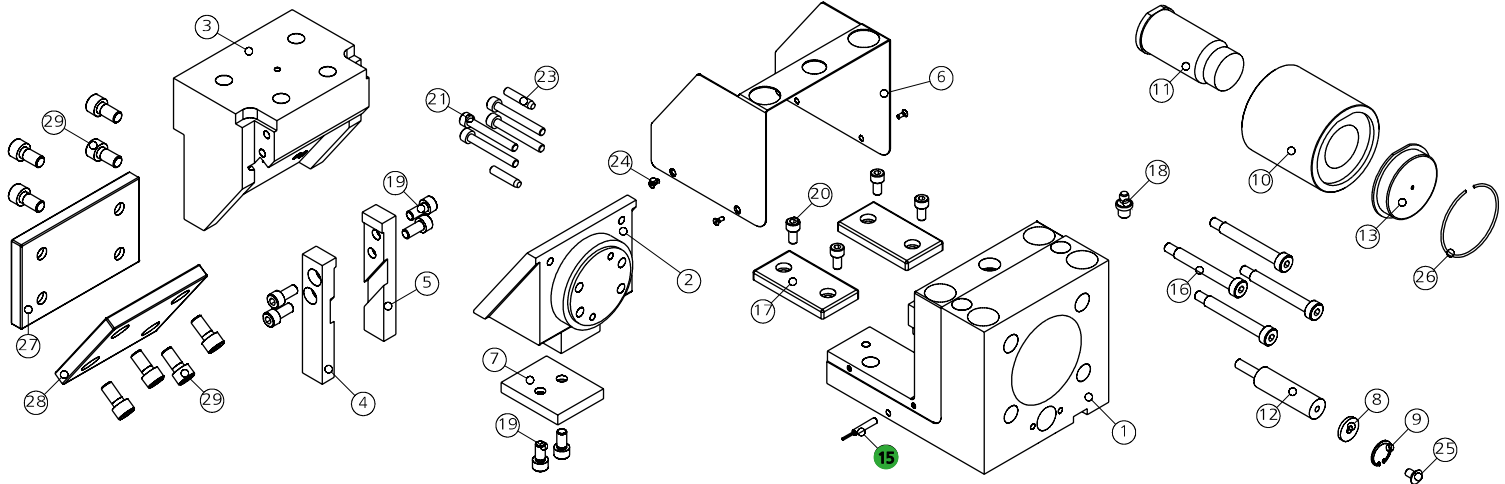
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **7250 daN**

ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **30000 daN**

CUTTING MAX FORCE  
MAXIMALE SCHNITTKRAFT  
EFFORT MAXI DÉCOUPE

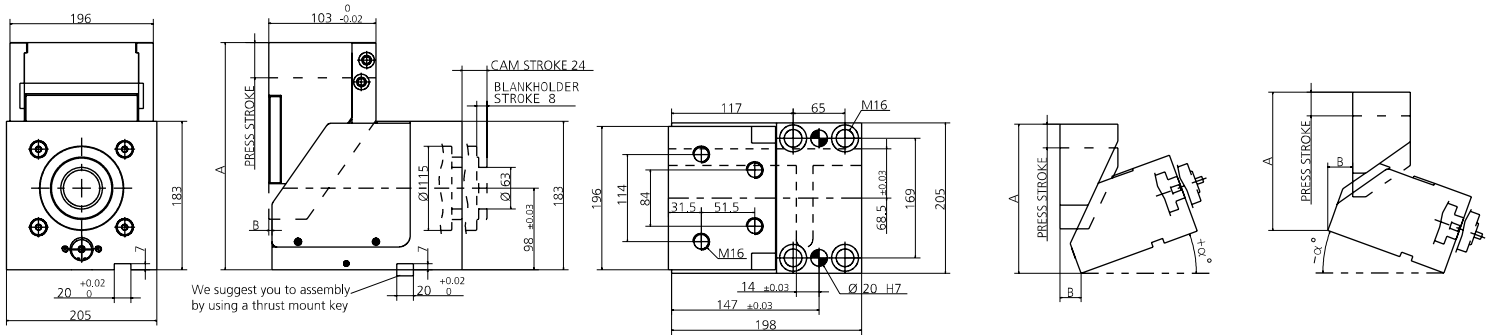


| POS. | CODE                          | DESCRIPTION   | Q.TY     |
|------|-------------------------------|---|----------|
| 001  | <b>8000.0047.3300</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE   | 1        |
| 002  | <b>8111.0047.0033.00.001</b>  | SLITTA / SLIDER / LAGERKEIL 0°  | 1*CHOOSE |
| 002  | <b>8111.0047.0033.05.001</b>  | SLITTA / SLIDER / LAGERKEIL +5°   | 1*CHOOSE |
| 002  | <b>8111.0047.0033.10.001</b>  | SLITTA / SLIDER / LAGERKEIL +10°  | 1*CHOOSE |
| 002  | <b>8111.0047.0033.15.001</b>  | SLITTA / SLIDER / LAGERKEIL +15°  | 1*CHOOSE |
| 003  | <b>8116.0047.0033.00.001</b>  | CUNEO / WEDGE / DRUCKSTÜCK 0°   | 1*CHOOSE |
| 003  | <b>8116.0047.0033.10.002</b>  | CUNEO / WEDGE / DRUCKSTÜCK +10°   | 1*CHOOSE |
| 003  | <b>8116.0047.0033.05.001</b>  | CUNEO / WEDGE / DRUCKSTÜCK -5°  | 1*CHOOSE |
| 003  | <b>8116.0047.0033.10.001</b>  | CUNEO / WEDGE / DRUCKSTÜCK -10°   | 1*CHOOSE |
| 003  | <b>8116.0047.0033.15.001</b>  | CUNEO / WEDGE / DRUCKSTÜCK -15°   | 1*CHOOSE |
| 004  | <b>8115.0047.0033.00.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 0°                               | 1*CHOOSE |
| 004  | <b>8115.0047.0033.10.003</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG +10°                             | 1*CHOOSE |
| 004  | <b>8115.0047.0033.05.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -5°                              | 1*CHOOSE |
| 004  | <b>8115.0047.0033.10.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -10°                             | 1*CHOOSE |
| 004  | <b>8115.0047.0033.15.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -15°                             | 1*CHOOSE |
| 005  | <b>8115.0047.0033.00.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 0°                               | 1*CHOOSE |
| 005  | <b>8115.0047.0033.10.004</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG +10°                             | 1*CHOOSE |
| 005  | <b>8115.0047.0033.05.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -5°                              | 1*CHOOSE |
| 005  | <b>8115.0047.0033.10.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -10°                             | 1*CHOOSE |
| 005  | <b>8115.0047.0033.15.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -15°                             | 1*CHOOSE |
| 006  | <b>8010.0047.3300</b>         | COPERCHIO / COVER / KOPFPLATTE  | 1        |
| 007  | <b>8011.0047.3300</b>         | PIASTRA / PLATE / PLATTE  | 1        |
| 008  | <b>8006.0130.0218.065.001</b> | RONDELLA / WASHER / UNTERLEGSCHEIBE   | 1        |
| 009  | <b>9004.2220.001</b>          | SEEGER / SEEGER / SEEGERRING  | 1        |
| 010  | <b>9030.063.001</b>           | CILINDRO SPECIALE / SPECIAL CYLINDER / SPEZIALZYLINDER  | 1        |
| 011  | <b>9090.3JBM2.630.090</b>     | PUNZONE SBOZZATO TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 63 90  | 1*OPTION |
| 011  | <b>9090.3JBM2.630.100</b>     | PUNZONE SBOZZATO TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 63 100 | 1*OPTION |

| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 011  | <b>093J_M2.630.090</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 63 90  | 1*OPTION |
| 011  | <b>093J_M2.630.100</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 63 100 | 1*OPTION |
| 012  | <b>9000.0025.0019.004</b>     | CILINDRO DI RITORNO / RETURN CYLINDER / RÜCK ZYLINDER                                      | 1        |
| 013  | <b>9016.090.063.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM                             | 1*CHOOSE |
| 013  | <b>9016.090.063.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM                              | 1*CHOOSE |
| 013  | <b>9016.100.063.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM                            | 1*CHOOSE |
| 013  | <b>9016.100.063.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM                             | 1*CHOOSE |
| 013  | <b>8016.090.063.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM                             | 1*OPTION |
| 013  | <b>8016.090.063.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM                              | 1*OPTION |
| 013  | <b>8016.100.063.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM                            | 1*OPTION |
| 013  | <b>8016.100.063.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM                             | 1*OPTION |
| 015  | <b>9003.0002</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT                             | 1*OPTION |
| 016  | <b>9008.1012.090</b>          | VITE A COLLETO / SHOULDER SCREW / ANSATZSCHRAUBE   | 4        |
| 017  | <b>8012.0950.0500.100.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE  | 2        |
| 018  | <b>9006.002</b>               | INGRASSATORE / NIPPLES / SCHMIERUNG  | 1        |
| 019  | <b>9007.08.016.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X16  | 6        |
| 020  | <b>9007.08.012.088.1.9327</b> | VITE / SCREW / SCHRAUBE M8X12  | 4        |
| 021  | <b>9007.08.050.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X50  | 8        |
| 023  | <b>9028.06.020.8735</b>       | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D6X20   | 2        |
| 024  | <b>9007.03.005.048.1.7687</b> | VITE / SCREW / SCHRAUBE M3X5   | 4        |
| 025  | <b>9007.06.014.129.1.5933</b> | VITE / SCREW / SCHRAUBE M6X14  | 1        |
| 026  | <b>9004.2980.001</b>          | SEEGER / SEEGER / SEEGERRING   | 1        |
| 027  | <b>8012.1960.0850.120.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE  | 1        |
| 028  | <b>8012.1670.1050.120.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE  | 1        |
| 029  | <b>9007.10.020.109.1.9327</b> | VITE / SCREW / SCHRAUBE M10X20   | 8        |

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **3300 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **7250 daN**  
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION

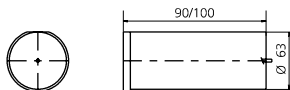
SFORZO MAX TRANCIO **30000 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE



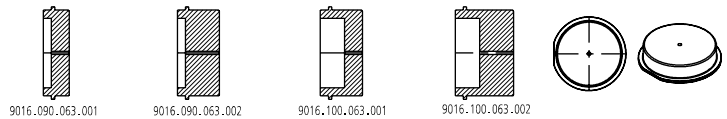
| $\alpha^\circ$ | PRESS STROKE | A      | B     |
|----------------|--------------|--------|-------|
| 0°             | 34.1         | 248.78 | 3     |
| +5°            | 32.05        | 247.2  | 20.75 |
| +10°           | 29.6         | 257.18 | 37.51 |
| +15°           | 26.9         | 257.46 | 54.25 |
| -5°            | 30.6         | 242.78 | 8     |
| -10°           | 27.8         | 236.78 | 9     |
| -15°           | 25.65        | 229.78 | 22    |

\* PER INCLINAZIONI FUORI STANDARD RIVOLGERSI ALL'UFFICIO TECNICONEWSTARK / \* FOR NON-STANDARD INCLINATIONS, PLEASE CONTACT NEWSTARK TECHNICAL OFFICE.  
 / \* FÜR NICHT STANDARDMÄSSIGE NEIGUNGEN WENDEN SIE SICH BITTE AN DAS TECHNISCHE BÜRO VON NEWSTARK

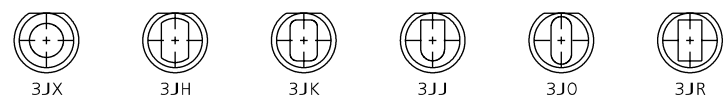
**0011 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020**



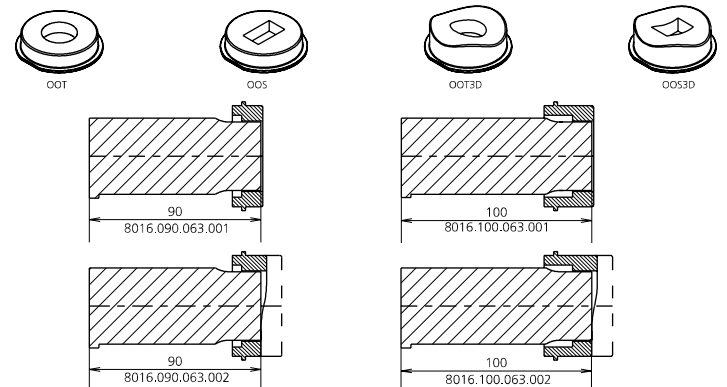
**013 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER**



**011 (093J\_) PUNZONE SAGOMATO / SHAPED PUNCH / GEFORMT SCHNEIDSTEMPEL ISO8020**



**013 (8016) PREMILAMIERA SAGOMATO / SHAPED BLANKHOLDER / GEFORMT BLECHHALTER (OPTION)**



**015 (9003) SENSORE / SENSOR / SENSOR**



**15 PATENT PENDING**



## CAM SMEG

- IT** Modello rappresentante il top di gamma della produzione Newstark, che ingloba soluzioni innovative e uniche: sistema di estrazione dell'utensile dalla lamiera mediante azoto integrato nel punzone standard ISO, quindi facilmente reperibile nel mercato, di potenza fino a 30'000 daN., che può essere eventualmente sagomato rispetto a geometrie di tranciatura desiderate. Questa innovazione permette di aumentare in modo esponenziale la durata del prodotto e le possibilità applicative.
- EN** This model represents the top of Newstark's production, range which incorporates market unique and innovative solutions. The system fits an ISO standard direct integrated punch, easily available on the market, that can eventually be shaped to match with required geometries with power up to 30'000 daN. This innovative system enables the increasing of the application possibilities and exponentially allows his life duration.
- DE** Das Top-Modell der Newstark Stanzeinheiten mit einzigartigen und innovativen Lösungen. Die integrierte Stanzeinheit mit Gasdruckfederniederhalter. Diese bietet einen herausnehmbaren Niederhalterkopf mit bearbeitbarer Kontur und eine Stempelaufnahmemöglichkeit für ISO 8020- Schneidstempel, auch mit Formansatz bei einer Stanzkraft bis zu 30'000 daN ohne die Baulänge der Stanzeinheit unnötig zu vergrößern. Dieses System ermöglicht im Vergleich zu herkömmlichen Systemen eine bis zu drei mal höhere Abstreifkraft.
- FR** Modèle représentant le haut de gamme de la production Newstark, qui intègre des solutions innovantes et uniques: système d'extraction de l'outil de la tôle au moyen d'azote intégré dans le poinçon standard ISO, donc facilement disponible sur le marché, d'une puissance allant jusqu'à 30'000 daN, qui peut éventuellement être façonné en fonction des formes de découpage souhaitées. Cette innovation permet une augmentation exponentielle de la durée de vie du produit et des possibilités d'application.

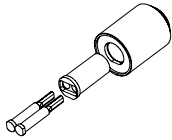


### PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE



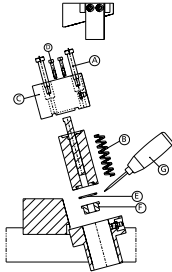
# CAM SMEG

ESEMPI DI APPLICAZIONI SPECIALI / EXAMPLES OF SPECIAL APPLICATIONS / BEISPIELE FÜR SPEZIELLE ANWENDUNGEN  
EXEMPLE D'APPLICATIONS SPÉCIALES



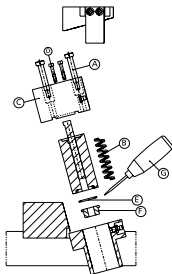
- !** È possibile inserire più punzoni nella stessa unità!  
It is possible put more punches in the same unit!  
Es ist möglich, setzen mehr Lochstempel in der gleichen Einheit!  
Il est possible d'insérer plusieurs poinçons dans la même unité!

DISEGNO DEL MONTAGGIO / MOUNTING DESIGN / MONTAGEZEICHNUNG / DESSIN DU MONTAGE



- !** ATTENZIONE:  
per eseguire la prova manualmente togliere il cilindro come indicato.  
ATTENTION:  
in order to manually perform the test, extract the cylinder as indicated.  
ACHTUNG:  
Stickstoffzylinder verbaut, Schieber nur in Grundstellung öffnen.  
ATTENTION:  
pour effectuer le test, retirer manuellement le cylindre comme indiqué.

SMONTAGGIO PRODOTTO SMEG / PRODUCT DISASSEMBLY SMEG / DEMONTAGE DES PRODUKTES SMEG / DÉMONTAGE PRODUIT SMEG



- !** ATTENZIONE: cilindro a gas in pressione.  
ATTENTION: gas cylinder under pressure.  
ACHTUNG: Gasdruckfeder steht unter hohem Druck.  
ATTENTION: cylindre à gaz sous pression.

- IT** **Attenzione: Assicurarsi che la camma sia nella sua posizione normale prima di eseguire qualsiasi lavoro di smontaggio o manutenzione.**
1. Togliere il portapunzone "C" e le molle "B" rimuovendo le viti a colletto "A".
  2. Togliere viti "D" per controllare il punzone.
  3. Rimuovere il seeger "E" togliendo lo stripper "F".  
L'utensile "G" per rimuovere "E" è a disposizione su richiesta.
  4. Eseguire le verifiche.
  5. Rimontare con cura lubrificando con grasso bisolfuro di Molibdeno (MoS<sub>2</sub>). L'uso di questo grasso viene consigliato da Newstark.
  6. Assicurare il corretto riposizionamento dei singoli componenti. Lubrificare durante l'uso con grasso bisolfuro di Molibdeno (MoS<sub>2</sub>).

- DE** **Achtung: Wartungs- und Demontearbeiten nur in Grundstellung der Stanzeinheit vornehmen.**
1. Trägerplatte "C" und Feder "B" entfernen um die Ansatzschraube "A" herauszuziehen.
  2. Schrauben "D" lösen um den Lochstempel zu wechseln.
  3. Sprengring "E" herausnehmen um den Abstreifer "F" zu entfernen.  
Ein Werkzeug "G" zur Entfernung von Teil "E" ist auf Anfrage lieferbar.
  4. Komponenten prüfen.
  5. Montage in umgekehrter Reihenfolge unter Verwendung von Molybdändisulfidfett (MoS<sub>2</sub>). Die Verwendung dieses Fett wird durch Newstark empfohlen.
  6. Auf richtigen Sitz der einzelnen Komponenten achten.  
Während des Gebrauchs, mit Molybdändisulfidfett (MoS<sub>2</sub>) nachschmieren.

- EN** **Attention: Undertake reassembly or maintenance work only when the cam unit is in its basic position.**
1. Take off the punch holder "C" and the springs "B" by removing the shoulder screws "A" as shown.
  2. Take off the screws "D" to change the punch.
  3. Take off the seeger "E" by removing stripper "F".  
The tool "G" to remove "E" is available on request.
  4. Check the components.
  5. Reassemble carefully using grease with disulfide molybdeno (MoS<sub>2</sub>).  
The use of this grease is recommended by Newstark.
  6. Ensure the correct positioning of the individual components.  
During use lubricate with grease with disulfide molybdeno (MoS<sub>2</sub>).

- FR** **Attention: S'assurer d'abord que la came est dans sa position normale avant d'effectuer tout travail de démontage ou de maintenance.**
1. Retirer le porte-poinçon "C" et les ressorts "B" en retirant les vis à collette "A".
  2. Retirer les vis "D" pour contrôler le poinçon.
  3. Enlever le circlip "E" en enlevant le stripper "F".  
L'outil "G" pour enlever "E" est disponible sur demande.
  4. Effectuer les contrôles.
  5. Remonter soigneusement en lubrifiant avec de la graisse au bisulfure de molybdène (MoS<sub>2</sub>). Newstark recommande l'utilisation de cette graisse.
  6. S'assurer que les différents éléments sont correctement repositionnés.  
Lubrifier avec de la graisse au bisulfure de molybdène (MoS<sub>2</sub>).

# 0148.5050 - CAM SMEG505-10

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE

505 daN

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION

1100 daN

ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

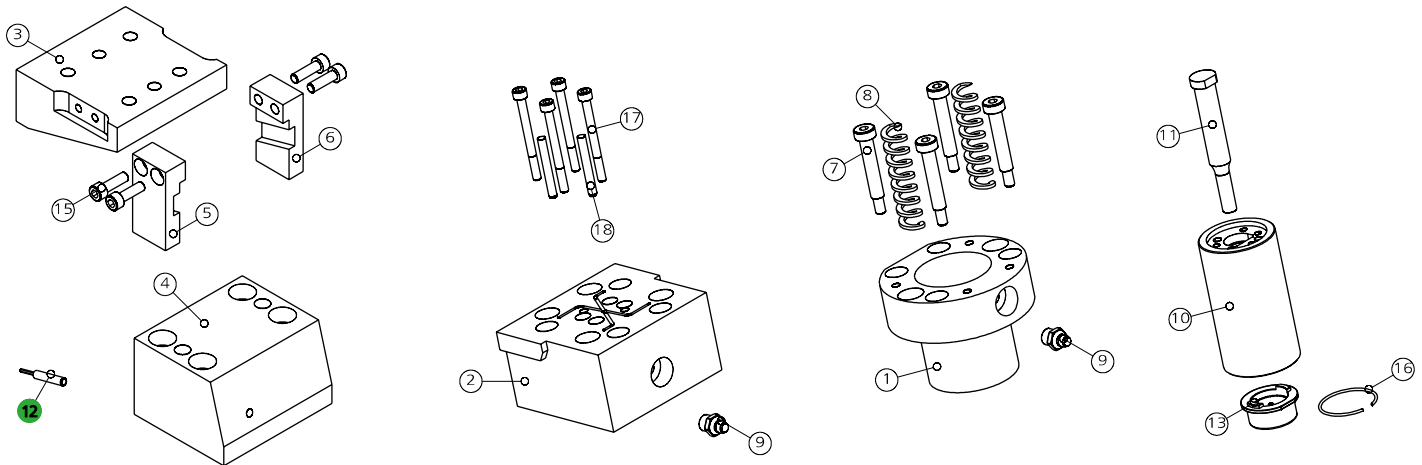
SFORZO MAX TRANCIO

4500 daN

CUTTING MAX FORCE

MAXIMALE SCHNITTKRAFT

EFFORT MAXI DÉCOUPE

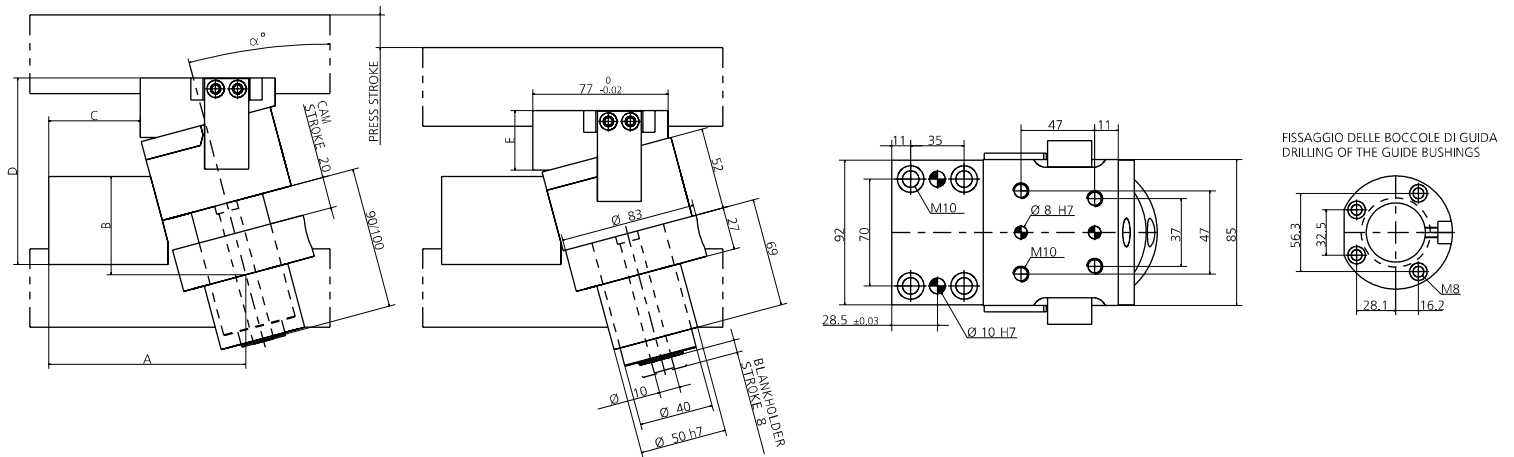


| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8013.0690.0830.400.001</b> | BOCCOLA DI GUIDA / GUIDE BUSHINGS / FÜHRUNGSBÜCHSE                     | 1        |
| 002  | <b>8014.0048.0505</b>         | PORTA PUNZONE / PUNCHES HOLDER / TRÄGERPLATTE                          | 1        |
| 003  | <b>8116.4851.0504.05.001</b>  | INCUDINE / ANVIL / TREIBER 5°  | 1*CHOOSE |
| 003  | <b>8116.4851.0504.10.001</b>  | INCUDINE / ANVIL / TREIBER 10°   | 1*CHOOSE |
| 003  | <b>8116.4851.0504.15.001</b>  | INCUDINE / ANVIL / TREIBER 15°   | 1*CHOOSE |
| 003  | <b>8116.4851.0504.20.001</b>  | INCUDINE / ANVIL / TREIBER 20°   | 1*CHOOSE |
| 003  | <b>8116.4851.0504.25.001</b>  | INCUDINE / ANVIL / TREIBER 25°   | 1*CHOOSE |
| 003  | <b>8116.4851.0504.30.001</b>  | INCUDINE / ANVIL / TREIBER 30°   | 1*CHOOSE |
| 003  | <b>8116.4851.0504.35.001</b>  | INCUDINE / ANVIL / TREIBER 35°   | 1*CHOOSE |
| 003  | <b>8116.4851.0504.40.001</b>  | INCUDINE / ANVIL / TREIBER 40°   | 1*CHOOSE |
| 003  | <b>8116.4851.0504.45.001</b>  | INCUDINE / ANVIL / TREIBER 45°   | 1*CHOOSE |
| 003  | <b>8116.4851.0504.50.001</b>  | INCUDINE / ANVIL / TREIBER 50°   | 1*CHOOSE |
| 004  | <b>8117.4851.0504.05.001</b>  | GUIDA / GUIDE / FÜHRUNG 5°   | 1*CHOOSE |
| 004  | <b>8117.4851.0504.10.001</b>  | GUIDA / GUIDE / FÜHRUNG 10°  | 1*CHOOSE |
| 004  | <b>8117.4851.0504.15.001</b>  | GUIDA / GUIDE / FÜHRUNG 15°  | 1*CHOOSE |
| 004  | <b>8117.4851.0504.20.001</b>  | GUIDA / GUIDE / FÜHRUNG 20°  | 1*CHOOSE |
| 004  | <b>8117.4851.0504.25.001</b>  | GUIDA / GUIDE / FÜHRUNG 25°  | 1*CHOOSE |
| 004  | <b>8117.4851.0504.30.001</b>  | GUIDA / GUIDE / FÜHRUNG 30°  | 1*CHOOSE |
| 004  | <b>8117.4851.0504.35.001</b>  | GUIDA / GUIDE / FÜHRUNG 35°  | 1*CHOOSE |
| 004  | <b>8117.4851.0504.40.001</b>  | GUIDA / GUIDE / FÜHRUNG 40°  | 1*CHOOSE |
| 004  | <b>8117.4851.0504.45.001</b>  | GUIDA / GUIDE / FÜHRUNG 45°  | 1*CHOOSE |
| 004  | <b>8117.4851.0504.50.001</b>  | GUIDA / GUIDE / FÜHRUNG 50°  | 1*CHOOSE |
| 005  | <b>8115.4851.0504.05.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°  | 1*CHOOSE |
| 005  | <b>8115.4851.0504.10.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10° | 1*CHOOSE |
| 005  | <b>8115.4851.0504.15.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15° | 1*CHOOSE |
| 005  | <b>8115.4851.0504.20.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20° | 1*CHOOSE |
| 005  | <b>8115.4851.0504.25.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25° | 1*CHOOSE |
| 005  | <b>8115.4851.0504.30.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30° | 1*CHOOSE |
| 005  | <b>8115.4851.0504.35.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35° | 1*CHOOSE |
| 005  | <b>8115.4851.0504.40.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40° | 1*CHOOSE |
| 005  | <b>8115.4851.0504.45.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45° | 1*CHOOSE |
| 005  | <b>8115.4851.0504.50.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50° | 1*CHOOSE |
| 006  | <b>8115.4851.0504.05.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°  | 1*CHOOSE |
| 006  | <b>8115.4851.0504.10.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10° | 1*CHOOSE |
| 006  | <b>8115.4851.0504.15.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15° | 1*CHOOSE |

| POS. | CODE                          | DESCRIPTION   | Q.TY     |
|------|-------------------------------|---|----------|
| 006  | <b>8115.4851.0504.20.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20°  | 1*CHOOSE |
| 006  | <b>8115.4851.0504.25.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25°  | 1*CHOOSE |
| 006  | <b>8115.4851.0504.30.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30°  | 1*CHOOSE |
| 006  | <b>8115.4851.0504.35.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35°  | 1*CHOOSE |
| 006  | <b>8115.4851.0504.40.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40°  | 1*CHOOSE |
| 006  | <b>8115.4851.0504.45.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°  | 1*CHOOSE |
| 006  | <b>8115.4851.0504.50.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50°  | 1*CHOOSE |
| 007  | <b>9008.0608.040</b>          | VITE A COLLETTO / SHOULDER SCREW / ANSATZSCHRAUBE   | 4        |
| 008  | <b>9009.3000.0890.160</b>     | MOLLA / SPRING / FEDER  | 2        |
| 009  | <b>9006.002</b>               | INGRASSATORE / NIPPLES / SCHMIERUNG   | 2        |
| 010  | <b>9030.010.001</b>           | CILINDRO SPECIALE / SPECIAL CYLINDER / SPEZIALZYLINDER  | 1        |
| 011  | <b>9090.3JBM2.100.090</b>     | PUNZONE SBOZZATO TC CON ESPULSORE / BLANK-HEADED PUNCH WITH EJECTOR / ROHLING SCHNEIDSTEMPEL MIT ABSTOSSER 10 90  | 1*OPTION |
| 011  | <b>9090.3JBM2.100.100</b>     | PUNZONE SBOZZATO TC CON ESPULSORE / BLANK-HEADED PUNCH WITH EJECTOR / ROHLING SCHNEIDSTEMPEL MIT ABSTOSSER 10 100 | 1*OPTION |
| 011  | <b>093J_M2.100.090</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 90                         | 1*OPTION |
| 011  | <b>093J_M2.100.100</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 100                        | 1*OPTION |
| 012  | <b>9003.0001</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT  | 1*OPTION |
| 013  | <b>9016.090.010.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM  | 1*CHOOSE |
| 013  | <b>9016.090.010.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM   | 1*CHOOSE |
| 013  | <b>9016.100.010.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM   | 1*CHOOSE |
| 013  | <b>9016.100.010.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM  | 1*CHOOSE |
| 013  | <b>8016.090.010.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM  | 1*OPTION |
| 013  | <b>8016.090.010.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM   | 1*OPTION |
| 013  | <b>8016.100.010.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM   | 1*OPTION |
| 013  | <b>8016.100.010.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM  | 1*OPTION |
| 015  | <b>9007.06.020.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X20   | 4        |
| 016  | <b>9004.2290.001</b>          | SEGER / SEGER / SEEGERRING  | 1        |
| 017  | <b>9007.04.055.129.1.4762</b> | VITE / SCREW / SCHRAUBE M4X55   | 4        |
| 018  | <b>9028.04.010.8735</b>       | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D4X10  | 2        |



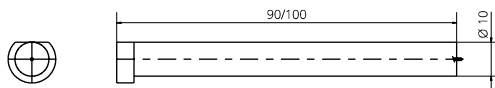
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **505 daN** SFORZO MAX TRANCIO **4500 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1100 daN** CUTTING MAX FORCE  
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE



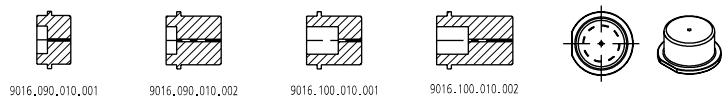
| $\alpha^\circ$ | PRESS STROKE | A      | B    | C     | D      | E  |
|----------------|--------------|--------|------|-------|--------|----|
| 5°             | 20.1         | 118.15 | 70.5 | 73.8  | 109.5  | 27 |
| 10°            | 20.3         | 120.4  | 66.5 | 68.55 | 110.75 | 28 |
| 15°            | 20.7         | 122.3  | 62.5 | 62.5  | 117.85 | 36 |
| 20°            | 21.3         | 123.2  | 56.5 | 55.9  | 125.6  | 42 |
| 25°            | 22.05        | 123.85 | 51.5 | 49.05 | 132    | 49 |
| 30°            | 23.1         | 126.85 | 46.8 | 46    | 139.1  | 57 |
| 35°            | 24.4         | 124.2  | 37.8 | 36.9  | 149.65 | 66 |
| 40°            | 26.1         | 122.5  | 31.8 | 28.65 | 157.1  | 72 |
| 45°            | 28.3         | 121.45 | 25.5 | 24    | 158.3  | 68 |
| 50°            | 31.1         | 115.45 | 17.5 | 14    | 171.25 | 81 |

\* PER INCLINAZIONI FUORI STANDARD RIVOLGERSI ALL'UFFICIO TECNICONESTARK / \* FOR NON-STANDARD INCLINATIONS, PLEASE CONTACT NEWSTARK TECHNICAL OFFICE.  
 / \* FÜR NICHT STANDARDMÄSSIGE NEIGUNGEN WENDEN SIE SICH BITTE AN DAS TECHNISCHE BÜRO VON NEWSTARK

**0011 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020**



**013 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER**



**011 (093J\_) PUNZONE SAGOMATO / SHAPED PUNCH / GEFORMT SCHNEIDSTEMPEL ISO8020**



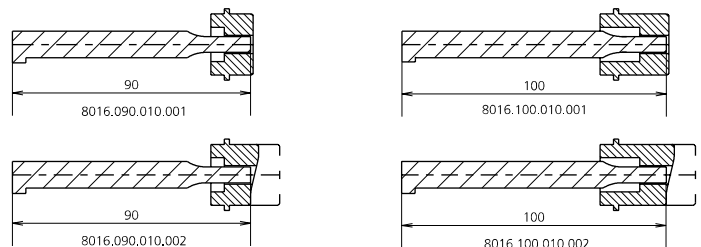
**013 (8016) PREMILAMIERA SAGOMATO / SHAPED BLANKHOLDER / GEFORMT BLECHHALTER**



**012 (9003) SENSORE / SENSOR / SENSOR**



**12 PATENT PENDING**



MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0148.5050** INCLINATION **+10°** BLANKHOLDER **9016/8016.** \_\_\_\_\_ OPTION CODE **9003.0001**

# 0148.6953 - CAM SMEG695-13

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **695 daN**

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1530 daN**

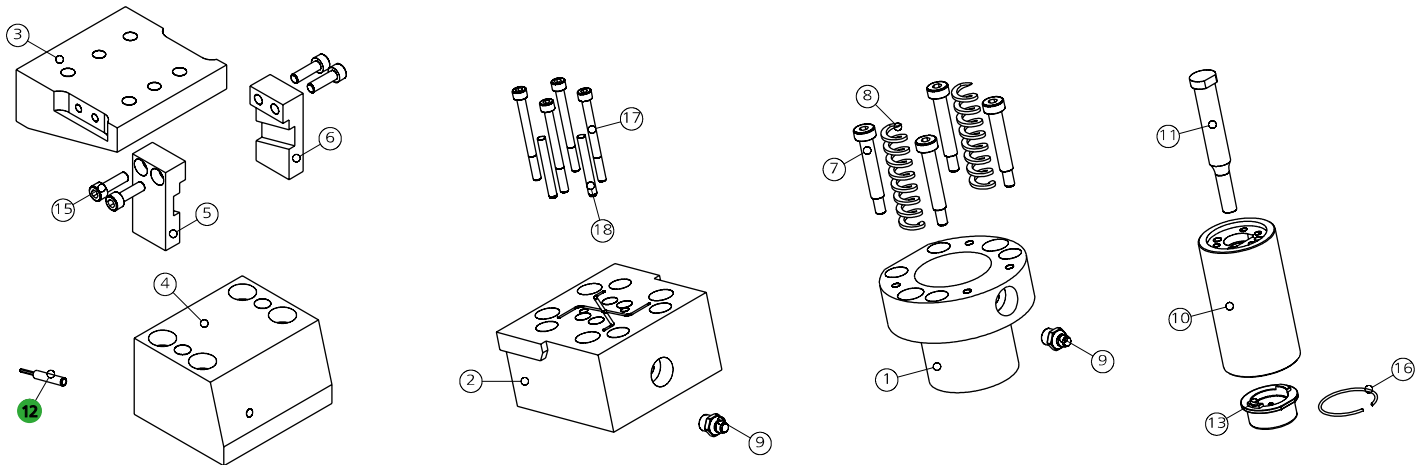
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **6000 daN**

CUTTING MAX FORCE

MAXIMALE SCHNITTKRAFT

EFFORT MAXI DÉCOUPE

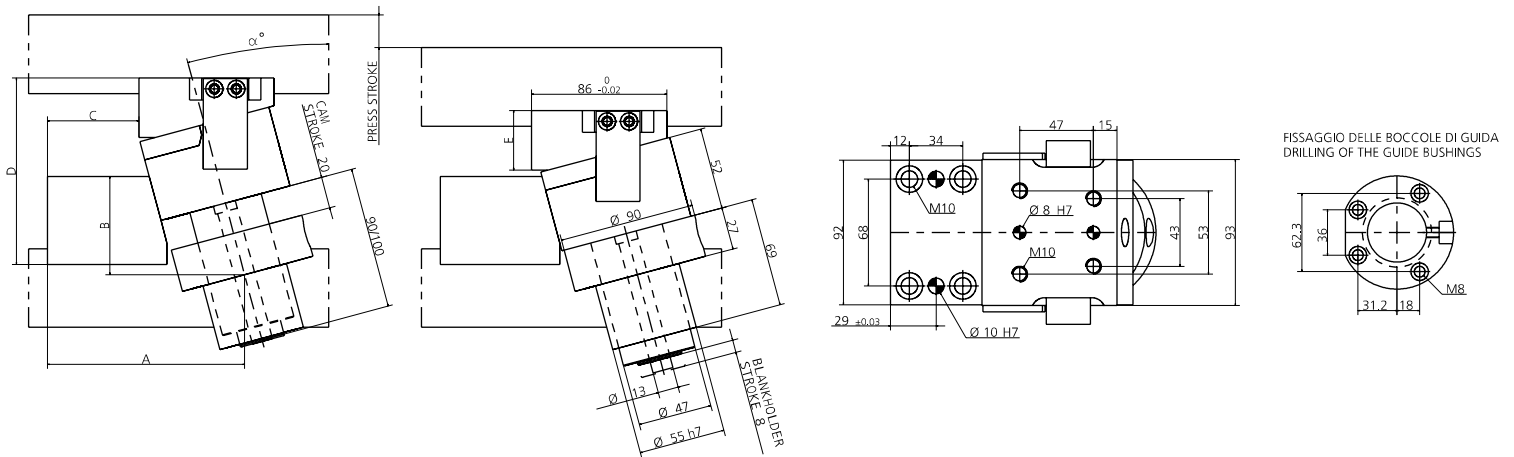


| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8013.0690.0900.470.001</b> | BOCCOLA DI GUIDA / GUIDE BUSHINGS / FÜHRUNGSBUCHSE                     | 1        |
| 002  | <b>8014.0048.0695</b>         | PORTA PUNZONE / PUNCHES HOLDER / TRÄGERPLATTE                          | 1        |
| 003  | <b>8116.4851.0605.05.001</b>  | INCUDINE / ANVIL / TREIBER 5°  | 1*CHOOSE |
| 003  | <b>8116.4851.0605.10.001</b>  | INCUDINE / ANVIL / TREIBER 10°   | 1*CHOOSE |
| 003  | <b>8116.4851.0605.15.001</b>  | INCUDINE / ANVIL / TREIBER 15°   | 1*CHOOSE |
| 003  | <b>8116.4851.0605.20.001</b>  | INCUDINE / ANVIL / TREIBER 20°   | 1*CHOOSE |
| 003  | <b>8116.4851.0605.25.001</b>  | INCUDINE / ANVIL / TREIBER 25°   | 1*CHOOSE |
| 003  | <b>8116.4851.0605.30.001</b>  | INCUDINE / ANVIL / TREIBER 30°   | 1*CHOOSE |
| 003  | <b>8116.4851.0605.35.001</b>  | INCUDINE / ANVIL / TREIBER 35°   | 1*CHOOSE |
| 003  | <b>8116.4851.0605.40.001</b>  | INCUDINE / ANVIL / TREIBER 40°   | 1*CHOOSE |
| 003  | <b>8116.4851.0605.45.001</b>  | INCUDINE / ANVIL / TREIBER 45°   | 1*CHOOSE |
| 003  | <b>8116.4851.0605.50.001</b>  | INCUDINE / ANVIL / TREIBER 50°   | 1*CHOOSE |
| 004  | <b>8117.4851.0605.05.001</b>  | GUIDA / GUIDE / FÜHRUNG 5°   | 1*CHOOSE |
| 004  | <b>8117.4851.0605.10.001</b>  | GUIDA / GUIDE / FÜHRUNG 10°  | 1*CHOOSE |
| 004  | <b>8117.4851.0605.15.001</b>  | GUIDA / GUIDE / FÜHRUNG 15°  | 1*CHOOSE |
| 004  | <b>8117.4851.0605.20.001</b>  | GUIDA / GUIDE / FÜHRUNG 20°  | 1*CHOOSE |
| 004  | <b>8117.4851.0605.25.001</b>  | GUIDA / GUIDE / FÜHRUNG 25°  | 1*CHOOSE |
| 004  | <b>8117.4851.0605.30.001</b>  | GUIDA / GUIDE / FÜHRUNG 30°  | 1*CHOOSE |
| 004  | <b>8117.4851.0605.35.001</b>  | GUIDA / GUIDE / FÜHRUNG 35°  | 1*CHOOSE |
| 004  | <b>8117.4851.0605.40.001</b>  | GUIDA / GUIDE / FÜHRUNG 40°  | 1*CHOOSE |
| 004  | <b>8117.4851.0605.45.001</b>  | GUIDA / GUIDE / FÜHRUNG 45°  | 1*CHOOSE |
| 004  | <b>8117.4851.0605.50.001</b>  | GUIDA / GUIDE / FÜHRUNG 50°  | 1*CHOOSE |
| 005  | <b>8115.4851.0605.05.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°  | 1*CHOOSE |
| 005  | <b>8115.4851.0605.10.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10° | 1*CHOOSE |
| 005  | <b>8115.4851.0605.15.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15° | 1*CHOOSE |
| 005  | <b>8115.4851.0605.20.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20° | 1*CHOOSE |
| 005  | <b>8115.4851.0605.25.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25° | 1*CHOOSE |
| 005  | <b>8115.4851.0605.30.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30° | 1*CHOOSE |
| 005  | <b>8115.4851.0605.35.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35° | 1*CHOOSE |
| 005  | <b>8115.4851.0605.40.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40° | 1*CHOOSE |
| 005  | <b>8115.4851.0605.45.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45° | 1*CHOOSE |
| 005  | <b>8115.4851.0605.50.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50° | 1*CHOOSE |
| 006  | <b>8115.4851.0605.05.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°  | 1*CHOOSE |
| 006  | <b>8115.4851.0605.10.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10° | 1*CHOOSE |
| 006  | <b>8115.4851.0605.15.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15° | 1*CHOOSE |

| POS. | CODE                          | DESCRIPTION   | Q.TY     |
|------|-------------------------------|---|----------|
| 006  | <b>8115.4851.0605.20.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20°  | 1*CHOOSE |
| 006  | <b>8115.4851.0605.25.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25°  | 1*CHOOSE |
| 006  | <b>8115.4851.0605.30.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30°  | 1*CHOOSE |
| 006  | <b>8115.4851.0605.35.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35°  | 1*CHOOSE |
| 006  | <b>8115.4851.0605.40.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40°  | 1*CHOOSE |
| 006  | <b>8115.4851.0605.45.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°  | 1*CHOOSE |
| 006  | <b>8115.4851.0605.50.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50°  | 1*CHOOSE |
| 007  | <b>9008.0608.040</b>          | VITE A COLLETTO / SHOULDER SCREW / ANSATZSCHRAUBE   | 4        |
| 008  | <b>9009.3000.0890.160</b>     | MOLLA / SPRING / FEDER  | 2        |
| 009  | <b>9006.002</b>               | INGRASSATORE / NIPPLES / SCHMIERUNG   | 2        |
| 010  | <b>9030.013.001</b>           | CILINDRO SPECIALE / SPECIAL CYLINDER / SPEZIALZYLINDER  | 1        |
| 011  | <b>9090.3JBM2.130.090</b>     | PUNZONE SBOZZATO TC CON ESPULSORE / BLANK-HEADED PUNCH WITH EJECTOR / ROHLING SCHNEIDSTEMPEL MIT ABSTOSSER 10 90  | 1*OPTION |
| 011  | <b>9090.3JBM2.130.100</b>     | PUNZONE SBOZZATO TC CON ESPULSORE / BLANK-HEADED PUNCH WITH EJECTOR / ROHLING SCHNEIDSTEMPEL MIT ABSTOSSER 10 100 | 1*OPTION |
| 011  | <b>093J_M2.130.090</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 90                         | 1*OPTION |
| 011  | <b>093J_M2.130.100</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 100                        | 1*OPTION |
| 012  | <b>9003.0001</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT  | 1*OPTION |
| 013  | <b>9016.090.136.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM  | 1*CHOOSE |
| 013  | <b>9016.090.136.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM   | 1*CHOOSE |
| 013  | <b>9016.100.136.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM   | 1*CHOOSE |
| 013  | <b>9016.100.136.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM  | 1*CHOOSE |
| 013  | <b>8016.090.136.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM  | 1*OPTION |
| 013  | <b>8016.090.136.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM   | 1*OPTION |
| 013  | <b>8016.100.136.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM   | 1*OPTION |
| 013  | <b>8016.100.136.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM  | 1*OPTION |
| 015  | <b>9007.06.020.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X20   | 4        |
| 016  | <b>9004.2350.001</b>          | SEGER / SEGER / SEEGERRING  | 1        |
| 017  | <b>9007.05.055.129.1.4762</b> | VITE / SCREW / SCHRAUBE M5X55   | 4        |
| 018  | <b>9028.05.012.8735</b>       | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D5X12  | 2        |



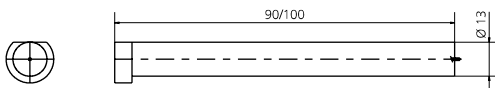
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **695 daN** SFORZO MAX TRANCIO **6000 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 CUTTING MAX FORCE  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1530 daN** MAXIMALE SCHNITTKRAFT  
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION EFFORT MAXI DÉCOUPE



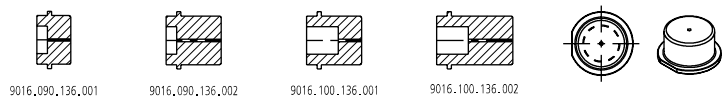
| $\alpha^\circ$ | PRESS STROKE | A      | B    | C     | D      | E  |
|----------------|--------------|--------|------|-------|--------|----|
| 5°             | 20.1         | 121.3  | 72.5 | 70    | 107.15 | 28 |
| 10°            | 20.3         | 123.65 | 67.5 | 64.3  | 114.5  | 35 |
| 15°            | 20.7         | 125.45 | 62.5 | 58.15 | 118.7  | 38 |
| 20°            | 21.3         | 126.8  | 57.5 | 52.5  | 125.8  | 46 |
| 25°            | 22.05        | 127.25 | 51.5 | 45.45 | 133.4  | 53 |
| 30°            | 23.1         | 126    | 41.8 | 38.15 | 140.7  | 58 |
| 35°            | 24.4         | 126.2  | 37.8 | 31.35 | 146.2  | 63 |
| 40°            | 26.1         | 123.55 | 30.8 | 22.7  | 155.25 | 71 |
| 45°            | 28.3         | 127.6  | 22.5 | 21.15 | 161.7  | 76 |
| 50°            | 31.1         | 123.6  | 15.5 | 14.2  | 175.2  | 86 |

\* PER INCLINAZIONI FUORI STANDARD RIVOLGERSI ALL'UFFICIO TECNICONESTARK / \* FOR NON-STANDARD INCLINATIONS, PLEASE CONTACT NEWSTARK TECHNICAL OFFICE.  
 / \* FÜR NICHT STANDARDMÄSSIGE NEIGUNGEN WENDEN SIE SICH BITTE AN DAS TECHNISCHE BÜRO VON NEWSTARK

0011 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



013 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



011 (093J\_) PUNZONE SAGOMATO / SHAPED PUNCH / GEFORMT SCHNEIDSTEMPEL ISO8020



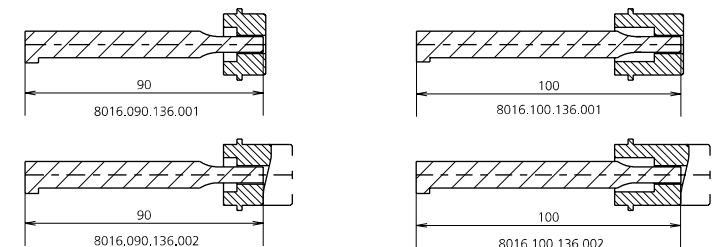
013 (8016) PREMILAMIERA SAGOMATO / SHAPED BLANKHOLDER / GEFORMT BLECHHALTER



012 (9003) SENSORE / SENSOR / SENSOR



12 PATENT PENDING



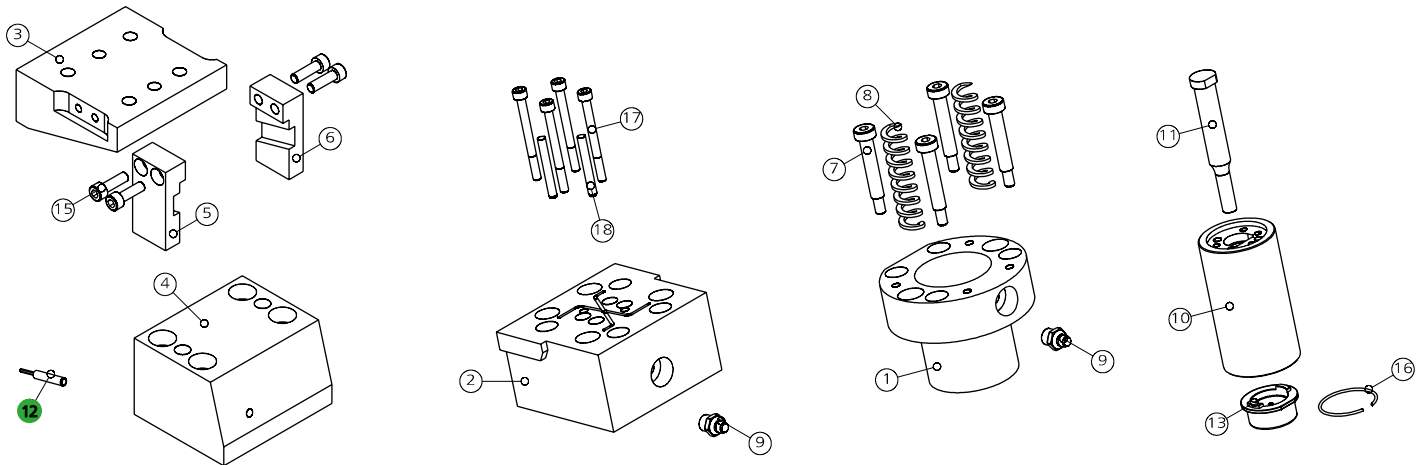
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0148.6953** INCLINATION **+10°** BLANKHOLDER **9016/8016.** \_\_\_\_\_ OPTION CODE **9003.0001**

# 0148.6956 - CAM SMEG695-16

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **695 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1530 daN**  
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION

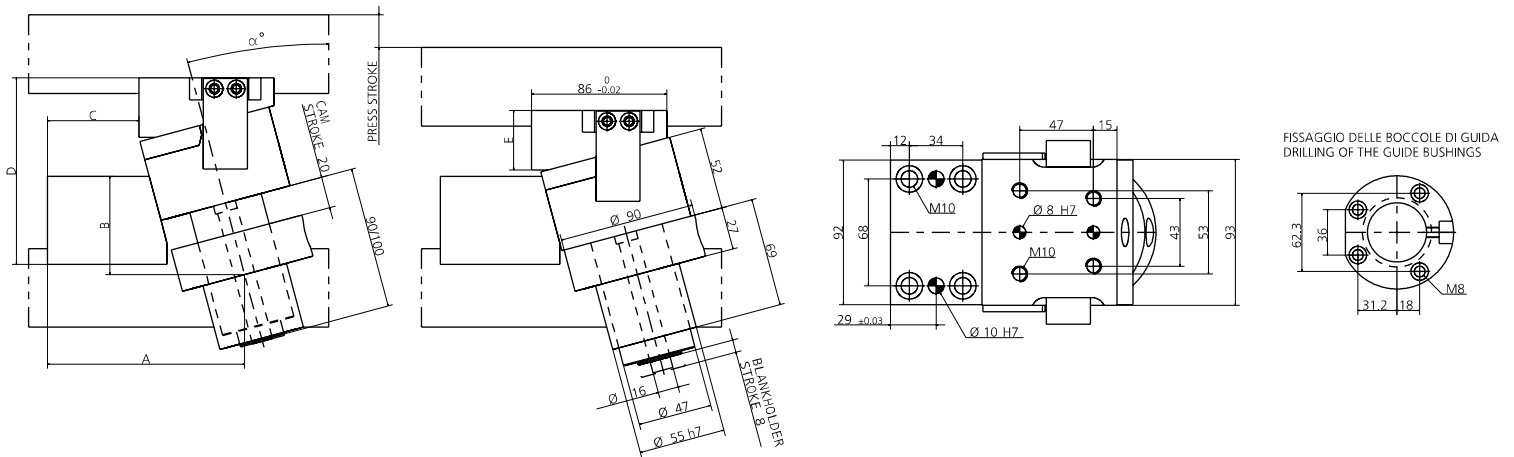
SFORZO MAX TRANCIO **6000 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE



| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8013.0690.0900.470.001</b> | BOCCOLA DI GUIDA / GUIDE BUSHINGS / FÜHRUNGSBUCHSE                     | 1        |
| 002  | <b>8014.0048.0695</b>         | PORTA PUNZONE / PUNCHES HOLDER / TRÄGERPLATTE                          | 1        |
| 003  | <b>8116.4851.0605.05.001</b>  | INCUDINE / ANVIL / TREIBER 5°  | 1*CHOOSE |
| 003  | <b>8116.4851.0605.10.001</b>  | INCUDINE / ANVIL / TREIBER 10°   | 1*CHOOSE |
| 003  | <b>8116.4851.0605.15.001</b>  | INCUDINE / ANVIL / TREIBER 15°   | 1*CHOOSE |
| 003  | <b>8116.4851.0605.20.001</b>  | INCUDINE / ANVIL / TREIBER 20°   | 1*CHOOSE |
| 003  | <b>8116.4851.0605.25.001</b>  | INCUDINE / ANVIL / TREIBER 25°   | 1*CHOOSE |
| 003  | <b>8116.4851.0605.30.001</b>  | INCUDINE / ANVIL / TREIBER 30°   | 1*CHOOSE |
| 003  | <b>8116.4851.0605.35.001</b>  | INCUDINE / ANVIL / TREIBER 35°   | 1*CHOOSE |
| 003  | <b>8116.4851.0605.40.001</b>  | INCUDINE / ANVIL / TREIBER 40°   | 1*CHOOSE |
| 003  | <b>8116.4851.0605.45.001</b>  | INCUDINE / ANVIL / TREIBER 45°   | 1*CHOOSE |
| 003  | <b>8116.4851.0605.50.001</b>  | INCUDINE / ANVIL / TREIBER 50°   | 1*CHOOSE |
| 004  | <b>8117.4851.0605.05.001</b>  | GUIDA / GUIDE / FÜHRUNG 5°   | 1*CHOOSE |
| 004  | <b>8117.4851.0605.10.001</b>  | GUIDA / GUIDE / FÜHRUNG 10°  | 1*CHOOSE |
| 004  | <b>8117.4851.0605.15.001</b>  | GUIDA / GUIDE / FÜHRUNG 15°  | 1*CHOOSE |
| 004  | <b>8117.4851.0605.20.001</b>  | GUIDA / GUIDE / FÜHRUNG 20°  | 1*CHOOSE |
| 004  | <b>8117.4851.0605.25.001</b>  | GUIDA / GUIDE / FÜHRUNG 25°  | 1*CHOOSE |
| 004  | <b>8117.4851.0605.30.001</b>  | GUIDA / GUIDE / FÜHRUNG 30°  | 1*CHOOSE |
| 004  | <b>8117.4851.0605.35.001</b>  | GUIDA / GUIDE / FÜHRUNG 35°  | 1*CHOOSE |
| 004  | <b>8117.4851.0605.40.001</b>  | GUIDA / GUIDE / FÜHRUNG 40°  | 1*CHOOSE |
| 004  | <b>8117.4851.0605.45.001</b>  | GUIDA / GUIDE / FÜHRUNG 45°  | 1*CHOOSE |
| 004  | <b>8117.4851.0605.50.001</b>  | GUIDA / GUIDE / FÜHRUNG 50°  | 1*CHOOSE |
| 005  | <b>8115.4851.0605.05.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°  | 1*CHOOSE |
| 005  | <b>8115.4851.0605.10.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10° | 1*CHOOSE |
| 005  | <b>8115.4851.0605.15.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15° | 1*CHOOSE |
| 005  | <b>8115.4851.0605.20.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20° | 1*CHOOSE |
| 005  | <b>8115.4851.0605.25.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25° | 1*CHOOSE |
| 005  | <b>8115.4851.0605.30.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30° | 1*CHOOSE |
| 005  | <b>8115.4851.0605.35.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35° | 1*CHOOSE |
| 005  | <b>8115.4851.0605.40.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40° | 1*CHOOSE |
| 005  | <b>8115.4851.0605.45.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45° | 1*CHOOSE |
| 005  | <b>8115.4851.0605.50.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50° | 1*CHOOSE |
| 006  | <b>8115.4851.0605.05.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°  | 1*CHOOSE |
| 006  | <b>8115.4851.0605.10.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10° | 1*CHOOSE |
| 006  | <b>8115.4851.0605.15.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15° | 1*CHOOSE |

| POS. | CODE                          | DESCRIPTION   | Q.TY     |
|------|-------------------------------|---|----------|
| 006  | <b>8115.4851.0605.20.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20°  | 1*CHOOSE |
| 006  | <b>8115.4851.0605.25.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25°  | 1*CHOOSE |
| 006  | <b>8115.4851.0605.30.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30°  | 1*CHOOSE |
| 006  | <b>8115.4851.0605.35.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35°  | 1*CHOOSE |
| 006  | <b>8115.4851.0605.40.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40°  | 1*CHOOSE |
| 006  | <b>8115.4851.0605.45.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°  | 1*CHOOSE |
| 006  | <b>8115.4851.0605.50.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50°  | 1*CHOOSE |
| 007  | <b>9008.0608.040</b>          | VITE A COLLETTO / SHOULDER SCREW / ANSATZSCHRAUBE   | 4        |
| 008  | <b>9009.3000.0890.160</b>     | MOLLA / SPRING / FEDER  | 2        |
| 009  | <b>9006.002</b>               | INGRASSATORE / NIPPLES / SCHMIERUNG   | 2        |
| 010  | <b>9030.016.001</b>           | CILINDRO SPECIALE / SPECIAL CYLINDER / SPEZIALZYLINDER  | 1        |
| 011  | <b>9090.3JBM2.160.090</b>     | PUNZONE SBOZZATO TC CON ESPULSORE / BLANK-HEADED PUNCH WITH EJECTOR / ROHLING SCHNEIDSTEMPEL MIT ABSTOSSER 10 90  | 1*OPTION |
| 011  | <b>9090.3JBM2.160.100</b>     | PUNZONE SBOZZATO TC CON ESPULSORE / BLANK-HEADED PUNCH WITH EJECTOR / ROHLING SCHNEIDSTEMPEL MIT ABSTOSSER 10 100 | 1*OPTION |
| 011  | <b>093J_M2.160.090</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 90                         | 1*OPTION |
| 011  | <b>093J_M2.160.100</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 100                        | 1*OPTION |
| 012  | <b>9003.0001</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT  | 1*OPTION |
| 013  | <b>9016.090.136.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM  | 1*CHOOSE |
| 013  | <b>9016.090.136.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM   | 1*CHOOSE |
| 013  | <b>9016.100.136.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM   | 1*CHOOSE |
| 013  | <b>9016.100.136.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM  | 1*CHOOSE |
| 013  | <b>8016.090.136.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM  | 1*OPTION |
| 013  | <b>8016.090.136.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM   | 1*OPTION |
| 013  | <b>8016.100.136.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM   | 1*OPTION |
| 013  | <b>8016.100.136.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM  | 1*OPTION |
| 015  | <b>9007.06.020.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X20   | 4        |
| 016  | <b>9004.2350.001</b>          | SEGER / SEGER / SEEGERRING  | 1        |
| 017  | <b>9007.05.055.129.1.4762</b> | VITE / SCREW / SCHRAUBE M5X55   | 4        |
| 018  | <b>9028.05.012.8735</b>       | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D5X12  | 2        |

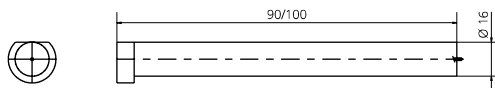
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **695 daN** SFORZO MAX TRANCIO **6000 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 CUTTING MAX FORCE  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1530 daN** MAXIMALE SCHNITTKRAFT  
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION EFFORT MAXI DÉCOUPE



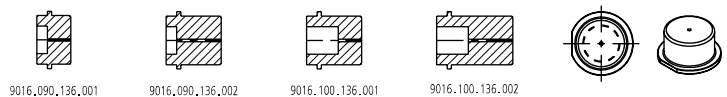
| $\alpha^\circ$ | PRESS STROKE | A      | B    | C     | D      | E  |
|----------------|--------------|--------|------|-------|--------|----|
| 5°             | 20.1         | 121.3  | 72.5 | 70    | 107.15 | 28 |
| 10°            | 20.3         | 123.65 | 67.5 | 64.3  | 114.5  | 35 |
| 15°            | 20.7         | 125.45 | 62.5 | 58.15 | 118.7  | 38 |
| 20°            | 21.3         | 126.8  | 57.5 | 52.5  | 125.8  | 46 |
| 25°            | 22.05        | 127.25 | 51.5 | 45.45 | 133.4  | 53 |
| 30°            | 23.1         | 126    | 41.8 | 38.15 | 140.7  | 58 |
| 35°            | 24.4         | 126.2  | 37.8 | 31.35 | 146.2  | 63 |
| 40°            | 26.1         | 123.55 | 30.8 | 22.7  | 155.25 | 71 |
| 45°            | 28.3         | 127.6  | 22.5 | 21.15 | 161.7  | 76 |
| 50°            | 31.1         | 123.6  | 15.5 | 14.2  | 175.2  | 86 |

\* PER INCLINAZIONI FUORI STANDARD RIVOLGERSI ALL'UFFICIO TECNICONESTARK / \* FOR NON-STANDARD INCLINATIONS, PLEASE CONTACT NEWSTARK TECHNICAL OFFICE.  
 / \* FÜR NICHT STANDARDMÄSSIGE NEIGUNGEN WENDEN SIE SICH BITTE AN DAS TECHNISCHE BÜRO VON NEWSTARK

0011 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



013 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



011 (093J\_) PUNZONE SAGOMATO / SHAPED PUNCH / GEFORMT SCHNEIDSTEMPEL ISO8020



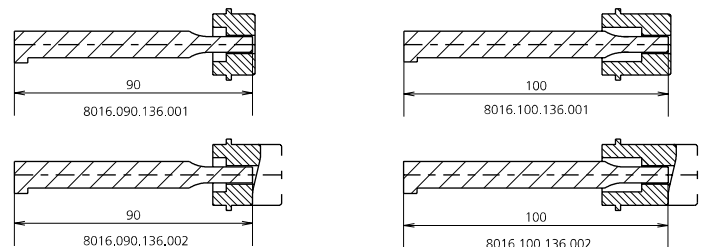
013 (8016) PREMILAMIERA SAGOMATO / SHAPED BLANKHOLDER / GEFORMT BLECHHALTER



012 (9003) SENSORE / SENSOR / SENSOR



12 PATENT PENDING



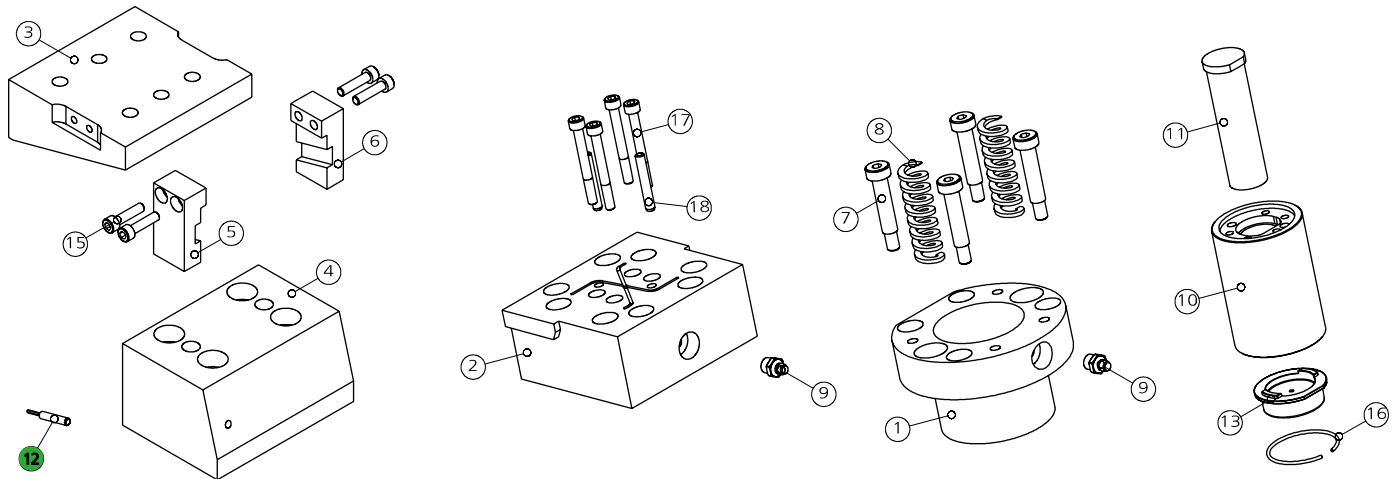
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0148.6956** INCLINATION **+10°** BLANKHOLDER **9016/8016.** \_\_\_\_\_ OPTION CODE **9003.0001**

# 0148.1160 - CAM SMEG1160-20

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **1160 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **2550 daN**  
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **9000 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE

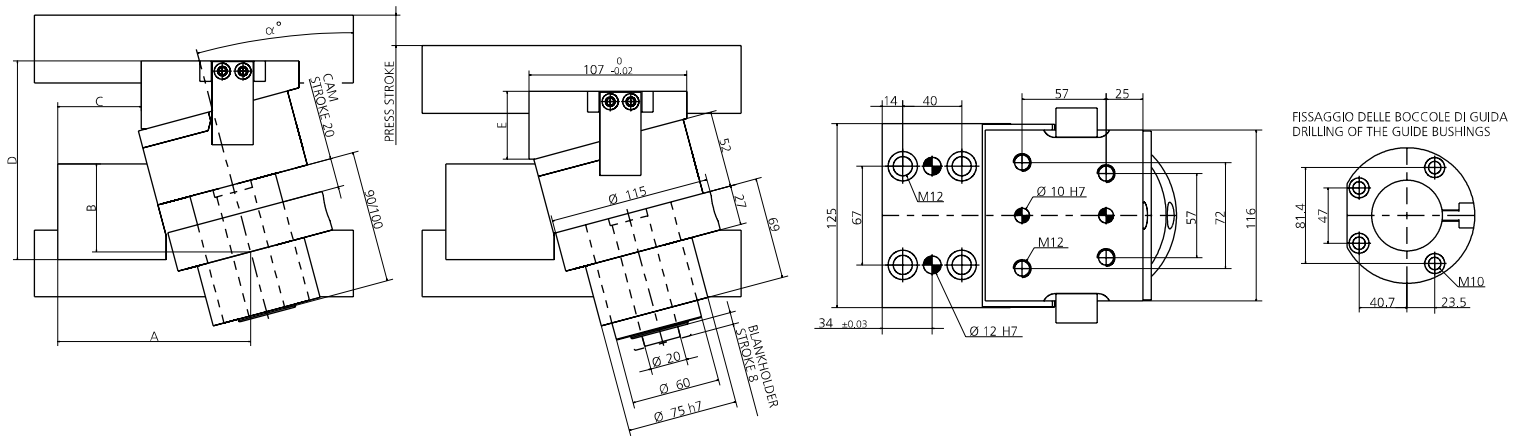


| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8013.0690.1150.600.001</b> | BOCCOLA DI GUIDA / GUIDE BUSHINGS / FÜHRUNGSBUCHSE                     | 1        |
| 002  | <b>8014.0048.1160</b>         | PORTA PUNZONE / PUNCHES HOLDER / TRÄGERPLATTE                          | 1        |
| 003  | <b>8116.4851.1106.05.001</b>  | INCUDINE / ANVIL / TREIBER 5°  | 1*CHOOSE |
| 003  | <b>8116.4851.1106.10.001</b>  | INCUDINE / ANVIL / TREIBER 10°   | 1*CHOOSE |
| 003  | <b>8116.4851.1106.15.001</b>  | INCUDINE / ANVIL / TREIBER 15°   | 1*CHOOSE |
| 003  | <b>8116.4851.1106.20.001</b>  | INCUDINE / ANVIL / TREIBER 20°   | 1*CHOOSE |
| 003  | <b>8116.4851.1106.25.001</b>  | INCUDINE / ANVIL / TREIBER 25°   | 1*CHOOSE |
| 003  | <b>8116.4851.1106.30.001</b>  | INCUDINE / ANVIL / TREIBER 30°   | 1*CHOOSE |
| 003  | <b>8116.4851.1106.35.001</b>  | INCUDINE / ANVIL / TREIBER 35°   | 1*CHOOSE |
| 003  | <b>8116.4851.1106.40.001</b>  | INCUDINE / ANVIL / TREIBER 40°   | 1*CHOOSE |
| 003  | <b>8116.4851.1106.45.001</b>  | INCUDINE / ANVIL / TREIBER 45°   | 1*CHOOSE |
| 003  | <b>8116.4851.1106.50.001</b>  | INCUDINE / ANVIL / TREIBER 50°   | 1*CHOOSE |
| 004  | <b>8117.4851.1106.05.001</b>  | GUIDA / GUIDE / FÜHRUNG 5°   | 1*CHOOSE |
| 004  | <b>8117.4851.1106.10.001</b>  | GUIDA / GUIDE / FÜHRUNG 10°  | 1*CHOOSE |
| 004  | <b>8117.4851.1106.15.001</b>  | GUIDA / GUIDE / FÜHRUNG 15°  | 1*CHOOSE |
| 004  | <b>8117.4851.1106.20.001</b>  | GUIDA / GUIDE / FÜHRUNG 20°  | 1*CHOOSE |
| 004  | <b>8117.4851.1106.25.001</b>  | GUIDA / GUIDE / FÜHRUNG 25°  | 1*CHOOSE |
| 004  | <b>8117.4851.1106.30.001</b>  | GUIDA / GUIDE / FÜHRUNG 30°  | 1*CHOOSE |
| 004  | <b>8117.4851.1106.35.001</b>  | GUIDA / GUIDE / FÜHRUNG 35°  | 1*CHOOSE |
| 004  | <b>8117.4851.1106.40.001</b>  | GUIDA / GUIDE / FÜHRUNG 40°  | 1*CHOOSE |
| 004  | <b>8117.4851.1106.45.001</b>  | GUIDA / GUIDE / FÜHRUNG 45°  | 1*CHOOSE |
| 004  | <b>8117.4851.1106.50.001</b>  | GUIDA / GUIDE / FÜHRUNG 50°  | 1*CHOOSE |
| 005  | <b>8115.4851.1106.05.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°  | 1*CHOOSE |
| 005  | <b>8115.4851.1106.10.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10° | 1*CHOOSE |
| 005  | <b>8115.4851.1106.15.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15° | 1*CHOOSE |
| 005  | <b>8115.4851.1106.20.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20° | 1*CHOOSE |
| 005  | <b>8115.4851.1106.25.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25° | 1*CHOOSE |
| 005  | <b>8115.4851.1106.30.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30° | 1*CHOOSE |
| 005  | <b>8115.4851.1106.35.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35° | 1*CHOOSE |
| 005  | <b>8115.4851.1106.40.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40° | 1*CHOOSE |
| 005  | <b>8115.4851.1106.45.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45° | 1*CHOOSE |
| 005  | <b>8115.4851.1106.50.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50° | 1*CHOOSE |
| 006  | <b>8115.4851.1106.05.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°  | 1*CHOOSE |
| 006  | <b>8115.4851.1106.10.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10° | 1*CHOOSE |
| 006  | <b>8115.4851.1106.15.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15° | 1*CHOOSE |

| POS. | CODE                          | DESCRIPTION   | Q.TY     |
|------|-------------------------------|---|----------|
| 006  | <b>8115.4851.1106.20.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20°  | 1*CHOOSE |
| 006  | <b>8115.4851.1106.25.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25°  | 1*CHOOSE |
| 006  | <b>8115.4851.1106.30.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30°  | 1*CHOOSE |
| 006  | <b>8115.4851.1106.35.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35°  | 1*CHOOSE |
| 006  | <b>8115.4851.1106.40.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40°  | 1*CHOOSE |
| 006  | <b>8115.4851.1106.45.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°  | 1*CHOOSE |
| 006  | <b>8115.4851.1106.50.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50°  | 1*CHOOSE |
| 007  | <b>9008.0810.040</b>          | VITE A COLLETTA / SHOULDER SCREW / ANSATZSCHRAUBE   | 4        |
| 008  | <b>9009.3000.0890.200</b>     | MOLLA / SPRING / FEDER  | 2        |
| 009  | <b>9006.002</b>               | INGRASSATORE / NIPPLES / SCHMIERUNG   | 2        |
| 010  | <b>9030.020.001</b>           | CILINDRO SPECIALE / SPECIAL CYLINDER / SPEZIALZYLINDER  | 1        |
| 011  | <b>9090.3JB2.200.090</b>      | PUNZONE SBOZZATO TC CON ESPULSORE / BLANK-HEADED PUNCH WITH EJECTOR / ROHLING SCHNEIDSTEMPEL MIT ABSTOSSER 10 90  | 1*OPTION |
| 011  | <b>9090.3JB2.200.100</b>      | PUNZONE SBOZZATO TC CON ESPULSORE / BLANK-HEADED PUNCH WITH EJECTOR / ROHLING SCHNEIDSTEMPEL MIT ABSTOSSER 10 100 | 1*OPTION |
| 011  | <b>093J_M2.200.090</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 90                         | 1*OPTION |
| 011  | <b>093J_M2.200.100</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 100                        | 1*OPTION |
| 012  | <b>9003.0001</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT  | 1*OPTION |
| 013  | <b>9016.090.205.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM  | 1*CHOOSE |
| 013  | <b>9016.090.205.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM   | 1*CHOOSE |
| 013  | <b>9016.100.205.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM   | 1*CHOOSE |
| 013  | <b>9016.100.205.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM  | 1*CHOOSE |
| 013  | <b>8016.090.205.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM  | 1*OPTION |
| 013  | <b>8016.090.205.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM   | 1*OPTION |
| 013  | <b>8016.100.205.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM   | 1*OPTION |
| 013  | <b>8016.100.205.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM  | 1*OPTION |
| 015  | <b>9007.06.020.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X20   | 4        |
| 016  | <b>9004.2480.001</b>          | SEGER / SEGER / SEEGERRING  | 1        |
| 017  | <b>9007.06.055.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X55   | 4        |
| 018  | <b>9028.06.020.8735</b>       | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D6X20  | 2        |

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **1160 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **2550 daN**  
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION

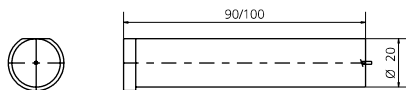
SFORZO MAX TRANCIO **9000 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE



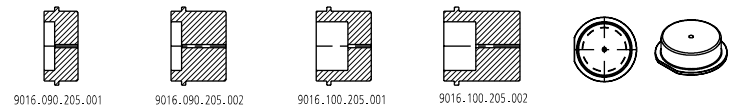
| $\alpha^\circ$ | PRESS STROKE | A      | B    | C     | D      | E   |
|----------------|--------------|--------|------|-------|--------|-----|
| 5°             | 20.1         | 141.7  | 71.6 | 83.45 | 123.4  | 35  |
| 10°            | 20.3         | 143.3  | 65.6 | 77    | 125.5  | 35  |
| 15°            | 20.7         | 144.23 | 56.6 | 70    | 135    | 46  |
| 20°            | 21.3         | 144.6  | 53.6 | 63.85 | 144.65 | 54  |
| 25°            | 22.05        | 144.15 | 47.1 | 55.9  | 154.25 | 64  |
| 30°            | 23.1         | 143.75 | 36.9 | 48    | 159    | 67  |
| 35°            | 24.4         | 142.9  | 31.9 | 41.15 | 167.75 | 76  |
| 40°            | 26.1         | 139.85 | 24.9 | 32.6  | 179.25 | 86  |
| 45°            | 28.3         | 138.35 | 14.6 | 25    | 193    | 96  |
| 50°            | 31.1         | 134.25 | 8.6  | 16.9  | 207.05 | 108 |

\* PER INCLINAZIONI FUORI STANDARD RIVOLGERSI ALL'UFFICIO TECNICONESTARK / \* FOR NON-STANDARD INCLINATIONS, PLEASE CONTACT NEWSTARK TECHNICAL OFFICE.  
 / \* FÜR NICHT STANDARDMÄSSIGE NEIGUNGEN WENDEN SIE SICH BITTE AN DAS TECHNISCHE BÜRO VON NEWSTARK

0011 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



013 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



011 (093J\_) PUNZONE SAGOMATO / SHAPED PUNCH / GEFORMT SCHNEIDSTEMPEL ISO8020



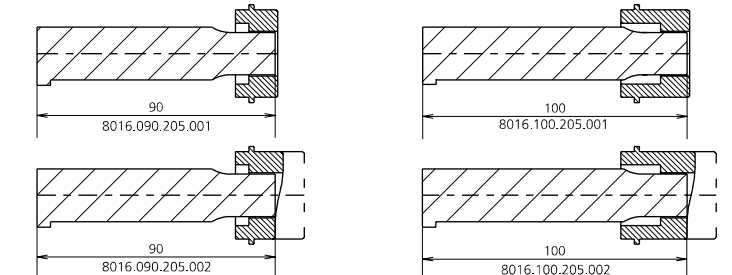
013 (8016) PREMILAMIERA SAGOMATO / SHAPED BLANKHOLDER / GEFORMT BLECHHALTER



012 (9003) SENSORE / SENSOR / SENSOR



12 PATENT PENDING



MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0148.1160** INCLINATION **+10°** BLANKHOLDER **9016/8016.** OPTION CODE **9003.0001**



# 0148.1165 - CAM SMEG1160-25

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **1160 daN**

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **2550 daN**

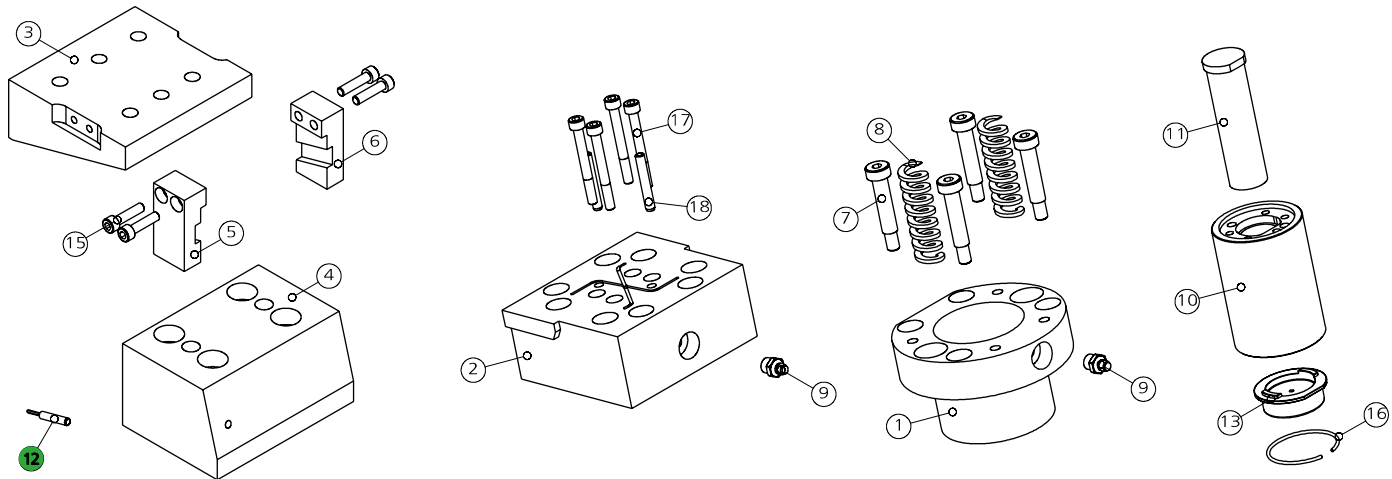
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **9000 daN**

CUTTING MAX FORCE

MAXIMALE SCHNITTKRAFT

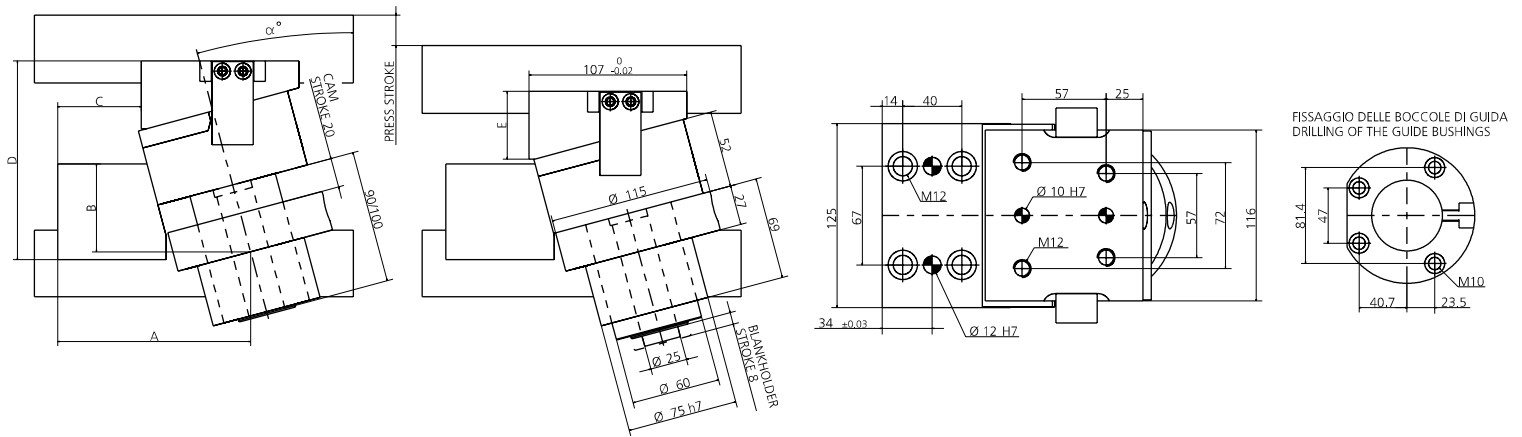
EFFORT MAXI DÉCOUPE



| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8013.0690.1150.600.001</b> | BOCCOLA DI GUIDA / GUIDE BUSHINGS / FÜHRUNGSBÜCHSE                     | 1        |
| 002  | <b>8014.0048.1160</b>         | PORTA PUNZONE / PUNCHES HOLDER / TRÄGERPLATTE                          | 1        |
| 003  | <b>8116.4851.1106.05.001</b>  | INCUDINE / ANVIL / TREIBER 5°  | 1*CHOOSE |
| 003  | <b>8116.4851.1106.10.001</b>  | INCUDINE / ANVIL / TREIBER 10°   | 1*CHOOSE |
| 003  | <b>8116.4851.1106.15.001</b>  | INCUDINE / ANVIL / TREIBER 15°   | 1*CHOOSE |
| 003  | <b>8116.4851.1106.20.001</b>  | INCUDINE / ANVIL / TREIBER 20°   | 1*CHOOSE |
| 003  | <b>8116.4851.1106.25.001</b>  | INCUDINE / ANVIL / TREIBER 25°   | 1*CHOOSE |
| 003  | <b>8116.4851.1106.30.001</b>  | INCUDINE / ANVIL / TREIBER 30°   | 1*CHOOSE |
| 003  | <b>8116.4851.1106.35.001</b>  | INCUDINE / ANVIL / TREIBER 35°   | 1*CHOOSE |
| 003  | <b>8116.4851.1106.40.001</b>  | INCUDINE / ANVIL / TREIBER 40°   | 1*CHOOSE |
| 003  | <b>8116.4851.1106.45.001</b>  | INCUDINE / ANVIL / TREIBER 45°   | 1*CHOOSE |
| 003  | <b>8116.4851.1106.50.001</b>  | INCUDINE / ANVIL / TREIBER 50°   | 1*CHOOSE |
| 004  | <b>8117.4851.1106.05.001</b>  | GUIDA / GUIDE / FÜHRUNG 5°   | 1*CHOOSE |
| 004  | <b>8117.4851.1106.10.001</b>  | GUIDA / GUIDE / FÜHRUNG 10°  | 1*CHOOSE |
| 004  | <b>8117.4851.1106.15.001</b>  | GUIDA / GUIDE / FÜHRUNG 15°  | 1*CHOOSE |
| 004  | <b>8117.4851.1106.20.001</b>  | GUIDA / GUIDE / FÜHRUNG 20°  | 1*CHOOSE |
| 004  | <b>8117.4851.1106.25.001</b>  | GUIDA / GUIDE / FÜHRUNG 25°  | 1*CHOOSE |
| 004  | <b>8117.4851.1106.30.001</b>  | GUIDA / GUIDE / FÜHRUNG 30°  | 1*CHOOSE |
| 004  | <b>8117.4851.1106.35.001</b>  | GUIDA / GUIDE / FÜHRUNG 35°  | 1*CHOOSE |
| 004  | <b>8117.4851.1106.40.001</b>  | GUIDA / GUIDE / FÜHRUNG 40°  | 1*CHOOSE |
| 004  | <b>8117.4851.1106.45.001</b>  | GUIDA / GUIDE / FÜHRUNG 45°  | 1*CHOOSE |
| 004  | <b>8117.4851.1106.50.001</b>  | GUIDA / GUIDE / FÜHRUNG 50°  | 1*CHOOSE |
| 005  | <b>8115.4851.1106.05.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°  | 1*CHOOSE |
| 005  | <b>8115.4851.1106.10.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10° | 1*CHOOSE |
| 005  | <b>8115.4851.1106.15.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15° | 1*CHOOSE |
| 005  | <b>8115.4851.1106.20.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20° | 1*CHOOSE |
| 005  | <b>8115.4851.1106.25.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25° | 1*CHOOSE |
| 005  | <b>8115.4851.1106.30.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30° | 1*CHOOSE |
| 005  | <b>8115.4851.1106.35.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35° | 1*CHOOSE |
| 005  | <b>8115.4851.1106.40.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40° | 1*CHOOSE |
| 005  | <b>8115.4851.1106.45.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45° | 1*CHOOSE |
| 005  | <b>8115.4851.1106.50.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50° | 1*CHOOSE |
| 006  | <b>8115.4851.1106.05.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°  | 1*CHOOSE |
| 006  | <b>8115.4851.1106.10.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10° | 1*CHOOSE |
| 006  | <b>8115.4851.1106.15.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15° | 1*CHOOSE |

| POS. | CODE                          | DESCRIPTION   | Q.TY     |
|------|-------------------------------|---|----------|
| 006  | <b>8115.4851.1106.20.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20°  | 1*CHOOSE |
| 006  | <b>8115.4851.1106.25.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25°  | 1*CHOOSE |
| 006  | <b>8115.4851.1106.30.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30°  | 1*CHOOSE |
| 006  | <b>8115.4851.1106.35.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35°  | 1*CHOOSE |
| 006  | <b>8115.4851.1106.40.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40°  | 1*CHOOSE |
| 006  | <b>8115.4851.1106.45.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°  | 1*CHOOSE |
| 006  | <b>8115.4851.1106.50.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50°  | 1*CHOOSE |
| 007  | <b>9008.0810.040</b>          | VITE A COLLETO / SHOULDER SCREW / ANSATZSCHRAUBE  | 4        |
| 008  | <b>9009.3000.0890.200</b>     | MOLLA / SPRING / FEDER  | 2        |
| 009  | <b>9006.002</b>               | INGRASSATORE / NIPPLES / SCHMIERUNG   | 2        |
| 010  | <b>9030.025.001</b>           | CILINDRO SPECIALE / SPECIAL CYLINDER / SPEZIALZYLINDER  | 1        |
| 011  | <b>9090.3JBM2.250.090</b>     | PUNZONE SBOZZATO TC CON ESPULSORE / BLANK-HEADED PUNCH WITH EJECTOR / ROHLING SCHNEIDSTEMPEL MIT ABSTOSSER 10 90  | 1*OPTION |
| 011  | <b>9090.3JBM2.250.100</b>     | PUNZONE SBOZZATO TC CON ESPULSORE / BLANK-HEADED PUNCH WITH EJECTOR / ROHLING SCHNEIDSTEMPEL MIT ABSTOSSER 10 100 | 1*OPTION |
| 011  | <b>093J_M2.250.090</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 90                         | 1*OPTION |
| 011  | <b>093J_M2.250.100</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 100                        | 1*OPTION |
| 012  | <b>9003.0001</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT  | 1*OPTION |
| 013  | <b>9016.090.205.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM  | 1*CHOOSE |
| 013  | <b>9016.090.205.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM   | 1*CHOOSE |
| 013  | <b>9016.100.205.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM   | 1*CHOOSE |
| 013  | <b>9016.100.205.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM  | 1*CHOOSE |
| 013  | <b>8016.090.205.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM  | 1*OPTION |
| 013  | <b>8016.090.205.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM   | 1*OPTION |
| 013  | <b>8016.100.205.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM   | 1*OPTION |
| 013  | <b>8016.100.205.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM  | 1*OPTION |
| 015  | <b>9007.06.020.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X20   | 4        |
| 016  | <b>9004.2480.001</b>          | SEEGER / SEEGER / SEEGERRING  | 1        |
| 017  | <b>9007.06.055.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X55   | 4        |
| 018  | <b>9028.06.020.8735</b>       | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D6X20  | 2        |

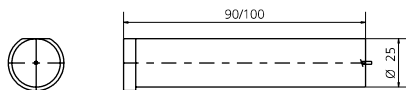
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **1160 daN** SFORZO MAX TRANCIO **9000 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **2550 daN** CUTTING MAX FORCE  
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE



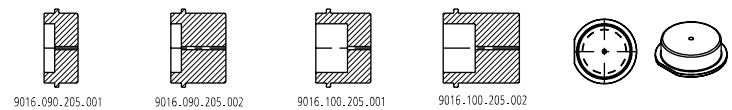
| $\alpha^\circ$ | PRESS STROKE | A      | B    | C     | D      | E   |
|----------------|--------------|--------|------|-------|--------|-----|
| 5°             | 20.1         | 141.7  | 71.6 | 83.45 | 123.4  | 35  |
| 10°            | 20.3         | 143.3  | 65.6 | 77    | 125.5  | 35  |
| 15°            | 20.7         | 144.23 | 56.6 | 70    | 135    | 46  |
| 20°            | 21.3         | 144.6  | 53.6 | 63.85 | 144.65 | 54  |
| 25°            | 22.05        | 144.15 | 47.1 | 55.9  | 154.25 | 64  |
| 30°            | 23.1         | 143.75 | 36.9 | 48    | 159    | 67  |
| 35°            | 24.4         | 142.9  | 31.9 | 41.15 | 167.75 | 76  |
| 40°            | 26.1         | 139.85 | 24.9 | 32.6  | 179.25 | 86  |
| 45°            | 28.3         | 138.35 | 14.6 | 25    | 193    | 96  |
| 50°            | 31.1         | 134.25 | 8.6  | 16.9  | 207.05 | 108 |

\* PER INCLINAZIONI FUORI STANDARD RIVOLGERSI ALL'UFFICIO TECNICONESTARK / \* FOR NON-STANDARD INCLINATIONS, PLEASE CONTACT NEWSTARK TECHNICAL OFFICE.  
 / \* FÜR NICHT STANDARDMÄSSIGE NEIGUNGEN WENDEN SIE SICH BITTE AN DAS TECHNISCHE BÜRO VON NEWSTARK

0011 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



013 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



011 (093J\_) PUNZONE SAGOMATO / SHAPED PUNCH / GEFORMT SCHNEIDSTEMPEL ISO8020



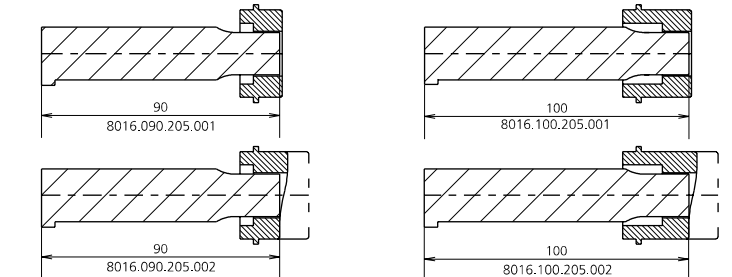
013 (8016) PREMILAMIERA SAGOMATO / SHAPED BLANKHOLDER / GEFORMT BLECHHALTER



012 (9003) SENSORE / SENSOR / SENSOR



12 PATENT PENDING



MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0148.1165** INCLINATION **+10°** BLANKHOLDER **9016/8016.** \_\_\_\_\_ OPTION CODE **9003.0001**



# 0148.1392 - CAM SMEG1390-32

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **1390 daN**

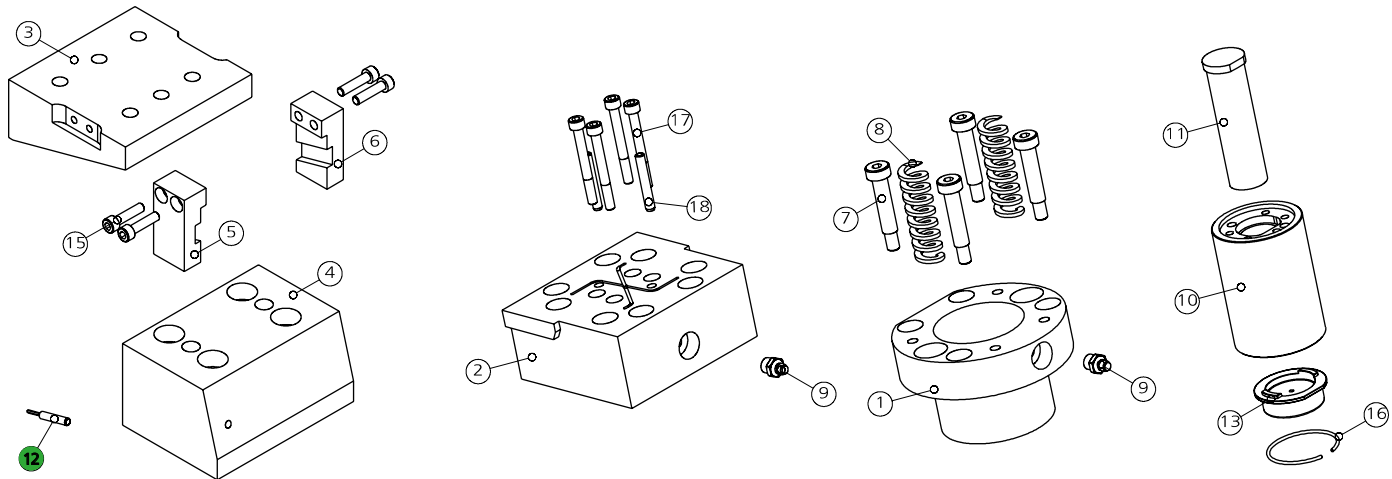
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **3050 daN**

ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **12000 daN**

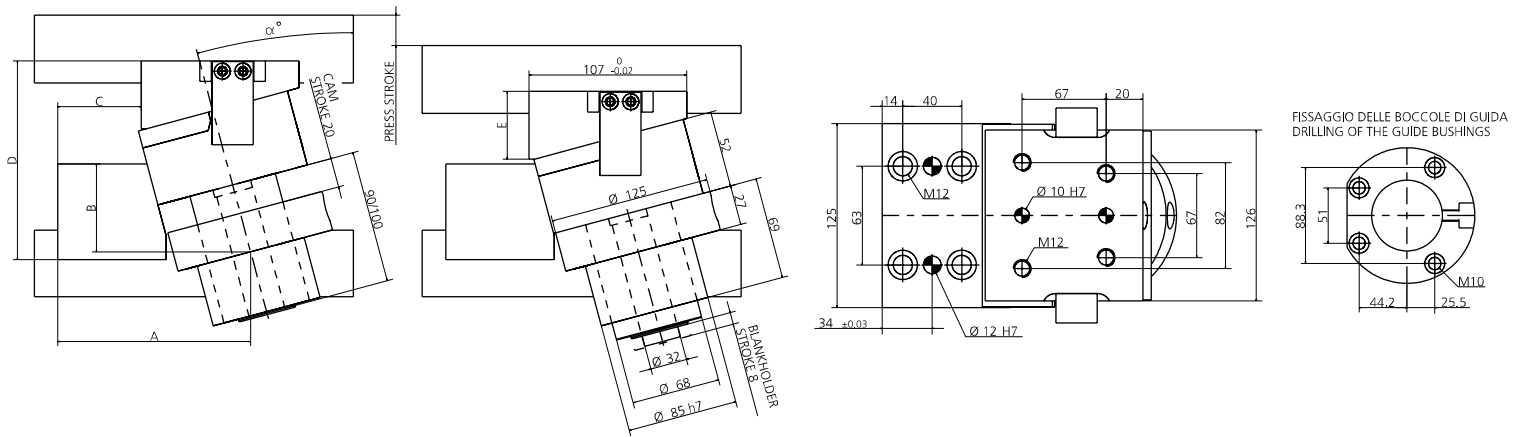
CUTTING MAX FORCE  
MAXIMALE SCHNITTKRAFT  
EFFORT MAXI DÉCOUPE



| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8013.0690.1250.680.001</b> | BOCCOLA DI GUIDA / GUIDE BUSHINGS / FÜHRUNGSBUCHSE                     | 1        |
| 002  | <b>8014.0048.1390</b>         | PORTA PUNZONE / PUNCHES HOLDER / TRÄGERPLATTE                          | 1        |
| 003  | <b>8116.4851.1307.05.001</b>  | INCUDINE / ANVIL / TREIBER 5°  | 1*CHOOSE |
| 003  | <b>8116.4851.1307.10.001</b>  | INCUDINE / ANVIL / TREIBER 10°   | 1*CHOOSE |
| 003  | <b>8116.4851.1307.15.001</b>  | INCUDINE / ANVIL / TREIBER 15°   | 1*CHOOSE |
| 003  | <b>8116.4851.1307.20.001</b>  | INCUDINE / ANVIL / TREIBER 20°   | 1*CHOOSE |
| 003  | <b>8116.4851.1307.25.001</b>  | INCUDINE / ANVIL / TREIBER 25°   | 1*CHOOSE |
| 003  | <b>8116.4851.1307.30.001</b>  | INCUDINE / ANVIL / TREIBER 30°   | 1*CHOOSE |
| 003  | <b>8116.4851.1307.35.001</b>  | INCUDINE / ANVIL / TREIBER 35°   | 1*CHOOSE |
| 003  | <b>8116.4851.1307.40.001</b>  | INCUDINE / ANVIL / TREIBER 40°   | 1*CHOOSE |
| 003  | <b>8116.4851.1307.45.001</b>  | INCUDINE / ANVIL / TREIBER 45°   | 1*CHOOSE |
| 003  | <b>8116.4851.1307.50.001</b>  | INCUDINE / ANVIL / TREIBER 50°   | 1*CHOOSE |
| 004  | <b>8117.4851.1307.05.001</b>  | GUIDA / GUIDE / FÜHRUNG 5°   | 1*CHOOSE |
| 004  | <b>8117.4851.1307.10.001</b>  | GUIDA / GUIDE / FÜHRUNG 10°  | 1*CHOOSE |
| 004  | <b>8117.4851.1307.15.001</b>  | GUIDA / GUIDE / FÜHRUNG 15°  | 1*CHOOSE |
| 004  | <b>8117.4851.1307.20.001</b>  | GUIDA / GUIDE / FÜHRUNG 20°  | 1*CHOOSE |
| 004  | <b>8117.4851.1307.25.001</b>  | GUIDA / GUIDE / FÜHRUNG 25°  | 1*CHOOSE |
| 004  | <b>8117.4851.1307.30.001</b>  | GUIDA / GUIDE / FÜHRUNG 30°  | 1*CHOOSE |
| 004  | <b>8117.4851.1307.35.001</b>  | GUIDA / GUIDE / FÜHRUNG 35°  | 1*CHOOSE |
| 004  | <b>8117.4851.1307.40.001</b>  | GUIDA / GUIDE / FÜHRUNG 40°  | 1*CHOOSE |
| 004  | <b>8117.4851.1307.45.001</b>  | GUIDA / GUIDE / FÜHRUNG 45°  | 1*CHOOSE |
| 004  | <b>8117.4851.1307.50.001</b>  | GUIDA / GUIDE / FÜHRUNG 50°  | 1*CHOOSE |
| 005  | <b>8115.4851.1307.05.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°  | 1*CHOOSE |
| 005  | <b>8115.4851.1307.10.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10° | 1*CHOOSE |
| 005  | <b>8115.4851.1307.15.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15° | 1*CHOOSE |
| 005  | <b>8115.4851.1307.20.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20° | 1*CHOOSE |
| 005  | <b>8115.4851.1307.25.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25° | 1*CHOOSE |
| 005  | <b>8115.4851.1307.30.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30° | 1*CHOOSE |
| 005  | <b>8115.4851.1307.35.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35° | 1*CHOOSE |
| 005  | <b>8115.4851.1307.40.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40° | 1*CHOOSE |
| 005  | <b>8115.4851.1307.45.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45° | 1*CHOOSE |
| 005  | <b>8115.4851.1307.50.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50° | 1*CHOOSE |
| 006  | <b>8115.4851.1307.05.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°  | 1*CHOOSE |
| 006  | <b>8115.4851.1307.10.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10° | 1*CHOOSE |
| 006  | <b>8115.4851.1307.15.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15° | 1*CHOOSE |

| POS. | CODE                          | DESCRIPTION   | Q.TY     |
|------|-------------------------------|---|----------|
| 006  | <b>8115.4851.1307.20.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20°  | 1*CHOOSE |
| 006  | <b>8115.4851.1307.25.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25°  | 1*CHOOSE |
| 006  | <b>8115.4851.1307.30.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30°  | 1*CHOOSE |
| 006  | <b>8115.4851.1307.35.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35°  | 1*CHOOSE |
| 006  | <b>8115.4851.1307.40.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40°  | 1*CHOOSE |
| 006  | <b>8115.4851.1307.45.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°  | 1*CHOOSE |
| 006  | <b>8115.4851.1307.50.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50°  | 1*CHOOSE |
| 007  | <b>9008.1012.040</b>          | VITE A COLLETTA / SHOULDER SCREW / ANSATZSCHRAUBE   | 4        |
| 008  | <b>9009.3000.0890.200</b>     | MOLLA / SPRING / FEDER  | 2        |
| 009  | <b>9006.002</b>               | INGRASSATORE / NIPPLES / SCHMIERUNG   | 2        |
| 010  | <b>9030.032.001</b>           | CILINDRO SPECIALE / SPECIAL CYLINDER / SPEZIALZYLINDER  | 1        |
| 011  | <b>9090.3JBM2.320.090</b>     | PUNZONE SBOZZATO TC CON ESPULSORE / BLANK-HEADED PUNCH WITH EJECTOR / ROHLING SCHNEIDSTEMPEL MIT ABSTOSSER 10 90  | 1*OPTION |
| 011  | <b>9090.3JBM2.320.100</b>     | PUNZONE SBOZZATO TC CON ESPULSORE / BLANK-HEADED PUNCH WITH EJECTOR / ROHLING SCHNEIDSTEMPEL MIT ABSTOSSER 10 100 | 1*OPTION |
| 011  | <b>093J_M2.320.090</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 90                         | 1*OPTION |
| 011  | <b>093J_M2.320.100</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 100                        | 1*OPTION |
| 012  | <b>9003.0001</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT  | 1*OPTION |
| 013  | <b>9016.090.032.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM  | 1*CHOOSE |
| 013  | <b>9016.090.032.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM   | 1*CHOOSE |
| 013  | <b>9016.100.032.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM   | 1*CHOOSE |
| 013  | <b>9016.100.032.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM  | 1*CHOOSE |
| 013  | <b>8016.090.032.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM  | 1*OPTION |
| 013  | <b>8016.090.032.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM   | 1*OPTION |
| 013  | <b>8016.100.032.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM   | 1*OPTION |
| 013  | <b>8016.100.032.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM  | 1*OPTION |
| 015  | <b>9007.06.020.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X20   | 4        |
| 016  | <b>9004.2570.001</b>          | SEEGER / SEEGER / SEEGERRING  | 1        |
| 017  | <b>9007.06.055.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X55   | 4        |
| 018  | <b>9028.06.020.8735</b>       | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D6X20  | 2        |

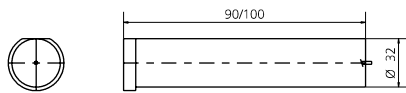
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **1390 daN** SFORZO MAX TRANCIO **12000 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **3050 daN** CUTTING MAX FORCE  
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE



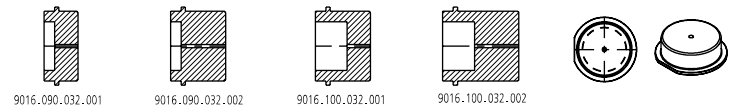
| $\alpha^\circ$ | PRESS STROKE | A      | B    | C     | D      | E   |
|----------------|--------------|--------|------|-------|--------|-----|
| 5°             | 20.1         | 144    | 69.4 | 87.65 | 127.8  | 37  |
| 10°            | 20.3         | 145.6  | 64.4 | 81.25 | 127.5  | 37  |
| 15°            | 20.7         | 146.5  | 58.4 | 73.15 | 135.95 | 46  |
| 20°            | 21.3         | 146.5  | 51.4 | 66.6  | 146.65 | 54  |
| 25°            | 22.05        | 145.65 | 44.4 | 58.25 | 156.8  | 64  |
| 30°            | 23.1         | 145.55 | 35.7 | 50.65 | 160.25 | 67  |
| 35°            | 24.4         | 144.6  | 30.7 | 43.7  | 169.1  | 77  |
| 40°            | 26.1         | 140.65 | 22.7 | 33.75 | 181.3  | 87  |
| 45°            | 28.3         | 143.65 | 15.4 | 31.15 | 191.25 | 96  |
| 50°            | 31.1         | 136.65 | 6.4  | 19.15 | 207.25 | 108 |

\* PER INCLINAZIONI FUORI STANDARD RIVOLGERSI ALL'UFFICIO TECNICONESTARK / \* FOR NON-STANDARD INCLINATIONS, PLEASE CONTACT NEWSTARK TECHNICAL OFFICE.  
 / \* FÜR NICHT STANDARDMÄSSIGE NEIGUNGEN WENDEN SIE SICH BITTE AN DAS TECHNISCHE BÜRO VON NEWSTARK

0011 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



013 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



011 (093J\_) PUNZONE SAGOMATO / SHAPED PUNCH / GEFORMT SCHNEIDSTEMPEL ISO8020



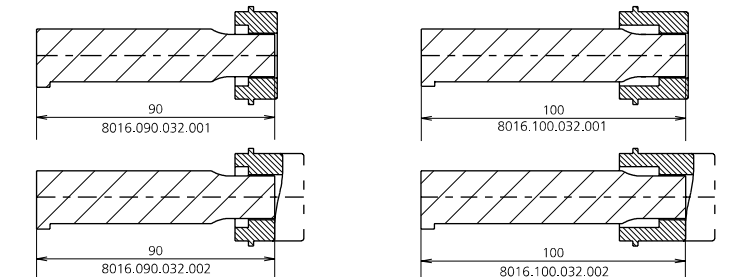
013 (8016) PREMILAMIERA SAGOMATO / SHAPED BLANKHOLDER / GEFORMT BLECHHALTER



012 (9003) SENSORE / SENSOR / SENSOR



12 PATENT PENDING



MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0148.1392** INCLINATION **+10°** BLANKHOLDER **9016/8016.** \_\_\_\_\_ OPTION CODE **9003.0001**

# 0148.1880 - CAM SMEG1880-40

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **1880 daN**

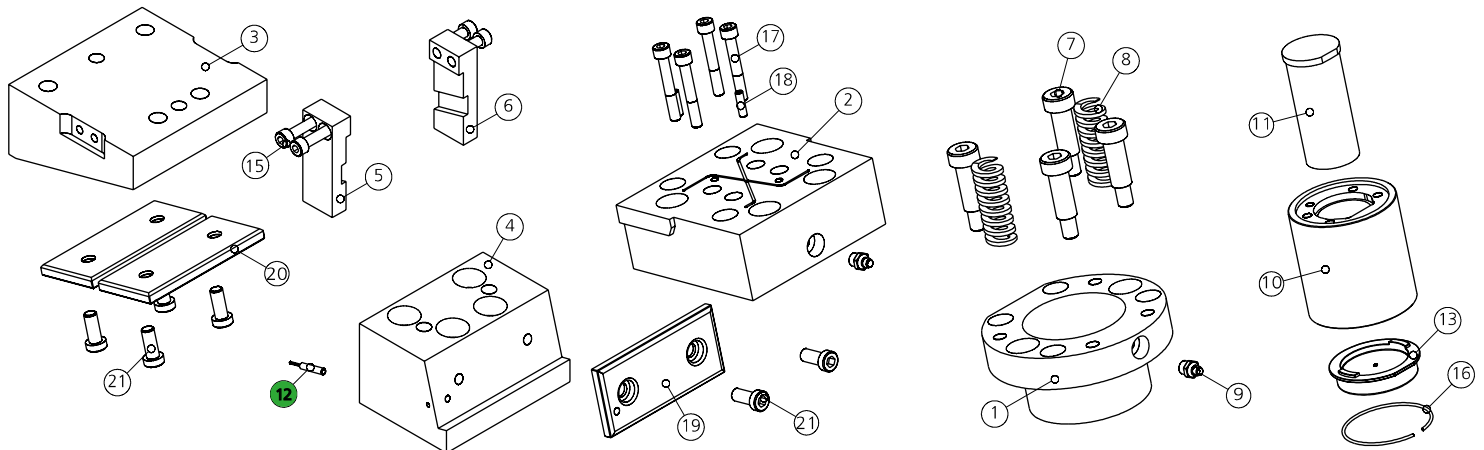
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **4100 daN**

ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **17000 daN**

CUTTING MAX FORCE  
MAXIMALE SCHNITTKRAFT  
EFFORT MAXI DÉCOUPE



| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8013.0690.1450.810.001</b> | BOCCOLA DI GUIDA / GUIDE BUSHINGS / FÜHRUNGSBÜCHSE                     | 1        |
| 002  | <b>8014.0048.1880</b>         | PORTA PUNZONE / PUNCHES HOLDER / TRÄGERPLATTE                          | 1        |
| 003  | <b>8116.4851.1808.05.001</b>  | INCUDINE / ANVIL / TREIBER 5°  | 1*CHOOSE |
| 003  | <b>8116.4851.1808.10.001</b>  | INCUDINE / ANVIL / TREIBER 10°   | 1*CHOOSE |
| 003  | <b>8116.4851.1808.15.001</b>  | INCUDINE / ANVIL / TREIBER 15°   | 1*CHOOSE |
| 003  | <b>8116.4851.1808.20.001</b>  | INCUDINE / ANVIL / TREIBER 20°   | 1*CHOOSE |
| 003  | <b>8116.4851.1808.25.001</b>  | INCUDINE / ANVIL / TREIBER 25°   | 1*CHOOSE |
| 003  | <b>8116.4851.1808.30.001</b>  | INCUDINE / ANVIL / TREIBER 30°   | 1*CHOOSE |
| 003  | <b>8116.4851.1808.35.001</b>  | INCUDINE / ANVIL / TREIBER 35°   | 1*CHOOSE |
| 003  | <b>8116.4851.1808.40.001</b>  | INCUDINE / ANVIL / TREIBER 40°   | 1*CHOOSE |
| 003  | <b>8116.4851.1808.45.001</b>  | INCUDINE / ANVIL / TREIBER 45°   | 1*CHOOSE |
| 003  | <b>8116.4851.1808.50.001</b>  | INCUDINE / ANVIL / TREIBER 50°   | 1*CHOOSE |
| 004  | <b>8117.4851.1808.05.001</b>  | GUIDA / GUIDE / FÜHRUNG 5°   | 1*CHOOSE |
| 004  | <b>8117.4851.1808.10.001</b>  | GUIDA / GUIDE / FÜHRUNG 10°  | 1*CHOOSE |
| 004  | <b>8117.4851.1808.15.001</b>  | GUIDA / GUIDE / FÜHRUNG 15°  | 1*CHOOSE |
| 004  | <b>8117.4851.1808.20.001</b>  | GUIDA / GUIDE / FÜHRUNG 20°  | 1*CHOOSE |
| 004  | <b>8117.4851.1808.25.001</b>  | GUIDA / GUIDE / FÜHRUNG 25°  | 1*CHOOSE |
| 004  | <b>8117.4851.1808.30.001</b>  | GUIDA / GUIDE / FÜHRUNG 30°  | 1*CHOOSE |
| 004  | <b>8117.4851.1808.35.001</b>  | GUIDA / GUIDE / FÜHRUNG 35°  | 1*CHOOSE |
| 004  | <b>8117.4851.1808.40.001</b>  | GUIDA / GUIDE / FÜHRUNG 40°  | 1*CHOOSE |
| 004  | <b>8117.4851.1808.45.001</b>  | GUIDA / GUIDE / FÜHRUNG 45°  | 1*CHOOSE |
| 004  | <b>8117.4851.1808.50.001</b>  | GUIDA / GUIDE / FÜHRUNG 50°  | 1*CHOOSE |
| 005  | <b>8115.4851.1808.05.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°  | 1*CHOOSE |
| 005  | <b>8115.4851.1808.10.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10° | 1*CHOOSE |
| 005  | <b>8115.4851.1808.15.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15° | 1*CHOOSE |
| 005  | <b>8115.4851.1808.20.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20° | 1*CHOOSE |
| 005  | <b>8115.4851.1808.25.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25° | 1*CHOOSE |
| 005  | <b>8115.4851.1808.30.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30° | 1*CHOOSE |
| 005  | <b>8115.4851.1808.35.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35° | 1*CHOOSE |
| 005  | <b>8115.4851.1808.40.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40° | 1*CHOOSE |
| 005  | <b>8115.4851.1808.45.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45° | 1*CHOOSE |
| 005  | <b>8115.4851.1808.50.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50° | 1*CHOOSE |
| 006  | <b>8115.4851.1808.05.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°  | 1*CHOOSE |
| 006  | <b>8115.4851.1808.10.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10° | 1*CHOOSE |
| 006  | <b>8115.4851.1808.15.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15° | 1*CHOOSE |
| 006  | <b>8115.4851.1808.20.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20° | 1*CHOOSE |

| POS. | CODE                          | DESCRIPTION   | Q.TY     |
|------|-------------------------------|---|----------|
| 006  | <b>8115.4851.1808.25.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25°  | 1*CHOOSE |
| 006  | <b>8115.4851.1808.30.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30°  | 1*CHOOSE |
| 006  | <b>8115.4851.1808.35.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35°  | 1*CHOOSE |
| 006  | <b>8115.4851.1808.40.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40°  | 1*CHOOSE |
| 006  | <b>8115.4851.1808.45.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°  | 1*CHOOSE |
| 006  | <b>8115.4851.1808.50.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50°  | 1*CHOOSE |
| 007  | <b>9008.1216.040</b>          | VITE A COLLETTA / SHOULDER SCREW / ANSATZSCHRAUBE   | 4        |
| 008  | <b>9009.3000.0890.250</b>     | MOLLA / SPRING / FEDER  | 2        |
| 009  | <b>9006.002</b>               | INGRASSATORE / NIPPLES / SCHMIERUNG   | 2        |
| 010  | <b>9030.040.001</b>           | CILINDRO SPECIALE / SPECIAL CYLINDER / SPEZIALZYLINDER  | 1        |
| 011  | <b>9090.3JBM2.400.090</b>     | PUNZONE SBOZZATO TC CON ESPULSORE / BLANK-HEADED PUNCH WITH EJECTOR / ROHLING SCHNEIDSTEMPEL MIT ABSTOSSER 10 90  | 1*OPTION |
| 011  | <b>9090.3JBM2.400.100</b>     | PUNZONE SBOZZATO TC CON ESPULSORE / BLANK-HEADED PUNCH WITH EJECTOR / ROHLING SCHNEIDSTEMPEL MIT ABSTOSSER 10 100 | 1*OPTION |
| 011  | <b>093J_M2.400.090</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 90                         | 1*OPTION |
| 011  | <b>093J_M2.400.100</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 100                        | 1*OPTION |
| 012  | <b>9003.0001</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT  | 1*OPTION |
| 013  | <b>9016.090.040.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM  | 1*CHOOSE |
| 013  | <b>9016.090.040.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM   | 1*CHOOSE |
| 013  | <b>9016.100.040.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM   | 1*CHOOSE |
| 013  | <b>9016.100.040.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM  | 1*CHOOSE |
| 013  | <b>8016.090.040.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM  | 1*OPTION |
| 013  | <b>8016.090.040.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM   | 1*OPTION |
| 013  | <b>8016.100.040.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM   | 1*OPTION |
| 013  | <b>8016.100.040.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM  | 1*OPTION |
| 015  | <b>9007.08.030.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X30   | 4        |
| 016  | <b>9004.2680.001</b>          | SEGER / SEGER / SEEGERRING  | 1        |
| 017  | <b>9007.08.055.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X55   | 4        |
| 018  | <b>9028.06.020.8735</b>       | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D6X20  | 2        |
| 019  | <b>8012.1250.0580.100.003</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE   | 1        |
| 020  | <b>9012.1250.0580.100.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE   | 2        |
| 021  | <b>9007.10.020.129.1.9327</b> | VITE / SCREW / SCHRAUBE M10X20  | 6        |



# 0148.3303 - CAM SMEG3300-63

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **3300 daN**

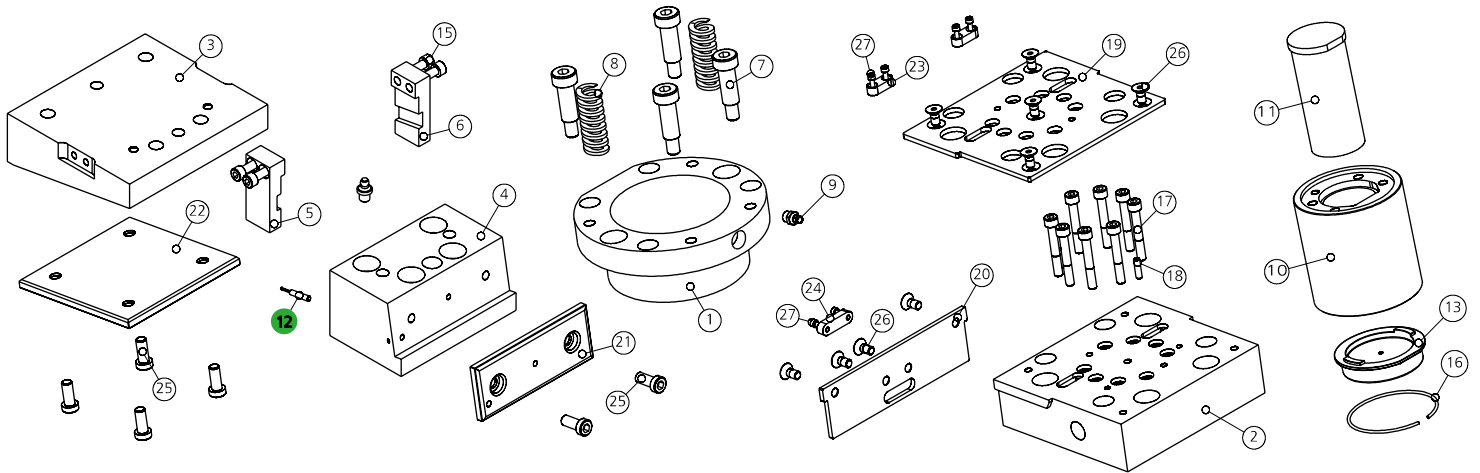
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **7250 daN**

ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **30000 daN**

CUTTING MAX FORCE  
MAXIMALE SCHNITTKRAFT  
EFFORT MAXI DÉCOUPE



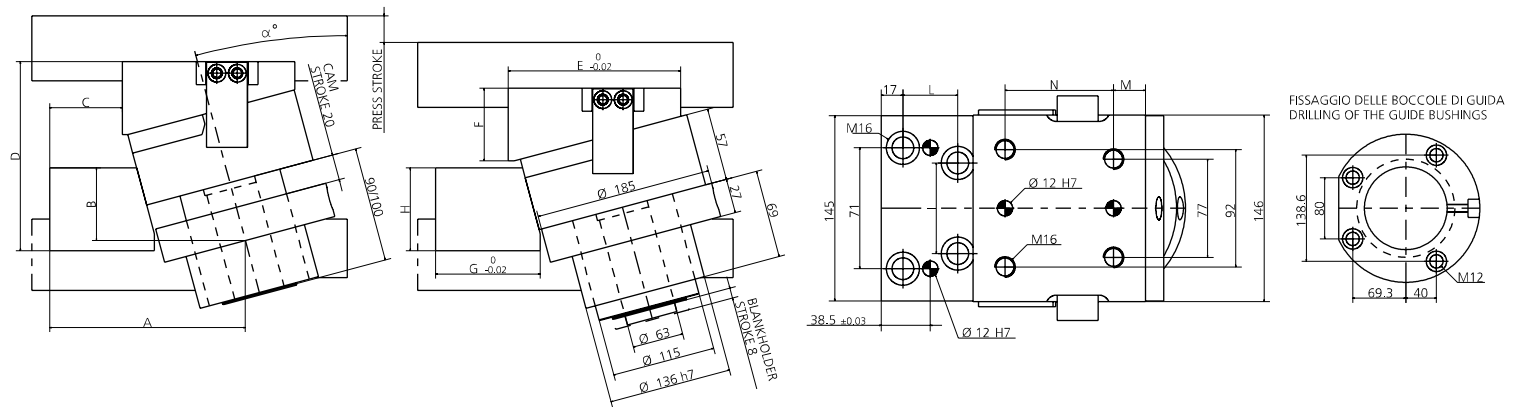
| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8013.0690.1850.115.001</b> | BOCCOLA DI GUIDA / GUIDE BUSHINGS / FÜHRUNGSBUCHSE                     | 1        |
| 002  | <b>8014.0048.3300</b>         | PORTA PUNZONE / PUNCHES HOLDER / TRÄGERPLATTE                          | 1        |
| 003  | <b>8116.4851.3311.05.001</b>  | INCUDINE / ANVIL / TREIBER 5°  | 1*CHOOSE |
| 003  | <b>8116.4851.3311.10.001</b>  | INCUDINE / ANVIL / TREIBER 10°   | 1*CHOOSE |
| 003  | <b>8116.4851.3311.15.001</b>  | INCUDINE / ANVIL / TREIBER 15°   | 1*CHOOSE |
| 003  | <b>8116.4851.3311.20.001</b>  | INCUDINE / ANVIL / TREIBER 20°   | 1*CHOOSE |
| 003  | <b>8116.4851.3311.25.001</b>  | INCUDINE / ANVIL / TREIBER 25°   | 1*CHOOSE |
| 003  | <b>8116.4851.3311.30.001</b>  | INCUDINE / ANVIL / TREIBER 30°   | 1*CHOOSE |
| 003  | <b>8116.4851.3311.35.001</b>  | INCUDINE / ANVIL / TREIBER 35°   | 1*CHOOSE |
| 003  | <b>8116.4851.3311.40.001</b>  | INCUDINE / ANVIL / TREIBER 40°   | 1*CHOOSE |
| 003  | <b>8116.4851.3311.45.001</b>  | INCUDINE / ANVIL / TREIBER 45°   | 1*CHOOSE |
| 003  | <b>8116.4851.3311.50.001</b>  | INCUDINE / ANVIL / TREIBER 50°   | 1*CHOOSE |
| 004  | <b>8117.4851.3311.05.001</b>  | GUIDA / GUIDE / FÜHRUNG 5°   | 1*CHOOSE |
| 004  | <b>8117.4851.3311.10.001</b>  | GUIDA / GUIDE / FÜHRUNG 10°  | 1*CHOOSE |
| 004  | <b>8117.4851.3311.15.001</b>  | GUIDA / GUIDE / FÜHRUNG 15°  | 1*CHOOSE |
| 004  | <b>8117.4851.3311.20.001</b>  | GUIDA / GUIDE / FÜHRUNG 20°  | 1*CHOOSE |
| 004  | <b>8117.4851.3311.25.001</b>  | GUIDA / GUIDE / FÜHRUNG 25°  | 1*CHOOSE |
| 004  | <b>8117.4851.3311.30.001</b>  | GUIDA / GUIDE / FÜHRUNG 30°  | 1*CHOOSE |
| 004  | <b>8117.4851.3311.35.001</b>  | GUIDA / GUIDE / FÜHRUNG 35°  | 1*CHOOSE |
| 004  | <b>8117.4851.3311.40.001</b>  | GUIDA / GUIDE / FÜHRUNG 40°  | 1*CHOOSE |
| 004  | <b>8117.4851.3311.45.001</b>  | GUIDA / GUIDE / FÜHRUNG 45°  | 1*CHOOSE |
| 004  | <b>8117.4851.3311.50.001</b>  | GUIDA / GUIDE / FÜHRUNG 50°  | 1*CHOOSE |
| 005  | <b>8115.4851.3311.05.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°  | 1*CHOOSE |
| 005  | <b>8115.4851.3311.10.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10° | 1*CHOOSE |
| 005  | <b>8115.4851.3311.15.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15° | 1*CHOOSE |
| 005  | <b>8115.4851.3311.20.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20° | 1*CHOOSE |
| 005  | <b>8115.4851.3311.25.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25° | 1*CHOOSE |
| 005  | <b>8115.4851.3311.30.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30° | 1*CHOOSE |
| 005  | <b>8115.4851.3311.35.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35° | 1*CHOOSE |
| 005  | <b>8115.4851.3311.40.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40° | 1*CHOOSE |
| 005  | <b>8115.4851.3311.45.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45° | 1*CHOOSE |
| 005  | <b>8115.4851.3311.50.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50° | 1*CHOOSE |
| 006  | <b>8115.4851.3311.05.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°  | 1*CHOOSE |
| 006  | <b>8115.4851.3311.10.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10° | 1*CHOOSE |
| 006  | <b>8115.4851.3311.15.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15° | 1*CHOOSE |
| 006  | <b>8115.4851.3311.20.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20° | 1*CHOOSE |
| 006  | <b>8115.4851.3311.25.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25° | 1*CHOOSE |
| 006  | <b>8115.4851.3311.30.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30° | 1*CHOOSE |

| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 006  | <b>8115.4851.3311.35.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35°                     | 1*CHOOSE |
| 006  | <b>8115.4851.3311.40.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40°                     | 1*CHOOSE |
| 006  | <b>8115.4851.3311.45.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°                     | 1*CHOOSE |
| 006  | <b>8115.4851.3311.50.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50°                     | 1*CHOOSE |
| 007  | <b>9008.1216.040</b>          | VITE A COLLETTO / SHOULDER SCREW / ANSATZSCHRAUBE  | 4        |
| 008  | <b>9009.3000.0890.250</b>     | MOLLA / SPRING / FEDER   | 2        |
| 009  | <b>9006.002</b>               | INGRASSATORE / NIPPLES / SCHMIERUNG  | 4        |
| 010  | <b>9030.063.001</b>           | CILINDRO SPECIALE / SPECIAL CYLINDER / SPEZIALZYLINDER                                     | 1        |
| 011  | <b>093JBM2.630.090</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 63 90  | 1*OPTION |
| 011  | <b>093JBM2.630.100</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 63 100 | 1*OPTION |
| 011  | <b>093J_M2.630.090</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 63 90  | 1*OPTION |
| 011  | <b>093J_M2.630.100</b>        | PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 63 100 | 1*OPTION |
| 012  | <b>9003.0001</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT                             | 1*OPTION |
| 013  | <b>9016.090.063.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM                             | 1*CHOOSE |
| 013  | <b>9016.090.063.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM                              | 1*CHOOSE |
| 013  | <b>9016.100.063.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM                            | 1*CHOOSE |
| 013  | <b>9016.100.063.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM                             | 1*CHOOSE |
| 013  | <b>8016.090.063.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM                             | 1*OPTION |
| 013  | <b>8016.090.063.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM                              | 1*OPTION |
| 013  | <b>8016.100.063.001</b>       | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM                            | 1*OPTION |
| 013  | <b>8016.100.063.002</b>       | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM                             | 1*OPTION |
| 015  | <b>9007.08.030.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X30  | 4        |
| 016  | <b>9004.2980.001</b>          | SEEEGER / SEEEGER / SEEGERRING   | 1        |
| 017  | <b>9007.08.055.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X55  | 8        |
| 018  | <b>9028.060.020.8735</b>      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D6X20   | 2        |
| 019  | <b>8030.1930.1690.048.002</b> | PIASTRINA / PLATE / PLATTE   | 1        |
| 020  | <b>8030.1930.0560.048.001</b> | PIASTRINA / PLATE / PLATTE   | 1        |
| 021  | <b>8012.1500.0580.100.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE  | 1        |
| 022  | <b>9012.1500.1500.100.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE  | 1        |
| 023  | <b>8087.0300.0120.080.001</b> | CHIAVETTA / KEY / SCHLÜSSEL  | 2        |
| 024  | <b>8087.0400.0120.080.001</b> | CHIAVETTA / KEY / SCHLÜSSEL  | 1        |
| 025  | <b>9007.10.020.129.1.9327</b> | VITE / SCREW / SCHRAUBE M10X20   | 6        |
| 026  | <b>9007.08.016.129.1.5933</b> | VITE / SCREW / SCHRAUBE M8X16  | 9        |
| 027  | <b>9007.04.010.129.1.4762</b> | VITE / SCREW / SCHRAUBE M4X10  | 6        |



FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **3300 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **7250 daN**  
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION

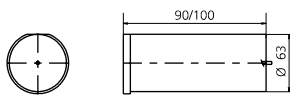
SFORZO MAX TRANCIO **30000 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE



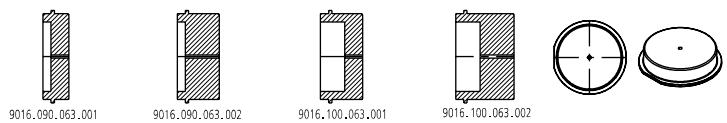
| $\alpha^\circ$ | PRESS STROKE | A      | B      | C    | D      | E   | F   | G   | H  | I  | L    | M    | N   |
|----------------|--------------|--------|--------|------|--------|-----|-----|-----|----|----|------|------|-----|
| 5°             | 20.1         | 187.35 | 77.85  | 95   | 142.05 | 165 | 46  | 96  | 76 | 56 | 43   | 27.5 | 110 |
| 10°            | 20.3         | 188.35 | 68.35  | 89.5 | 154.3  | 165 | 56  | 96  | 76 | 56 | 43   | 27.5 | 110 |
| 15°            | 20.7         | 199.35 | 59.35  | 99   | 167.65 | 155 | 67  | 106 | 76 | 56 | 43   | 22.5 | 110 |
| 20°            | 21.3         | 199.35 | 49.35  | 90   | 177.7  | 155 | 76  | 106 | 76 | 56 | 43   | 22.5 | 110 |
| 25°            | 22.05        | 198.35 | 39.35  | 81   | 187.9  | 155 | 86  | 106 | 75 | 56 | 38   | 22.5 | 110 |
| 30°            | 23.1         | 197.35 | 30.35  | 71   | 197.9  | 155 | 96  | 106 | 75 | 56 | 38   | 22.5 | 110 |
| 35°            | 24.4         | 194.85 | 19.35  | 66.5 | 206.55 | 145 | 106 | 106 | 72 | 56 | 33   | 17.5 | 110 |
| 40°            | 26.1         | 202.35 | 9.35   | 77.5 | 216.7  | 136 | 116 | 116 | 66 | 56 | 38   | 25   | 86  |
| 45°            | 28.3         | 188.35 | 0.35   | 63.5 | 229.9  | 126 | 126 | 106 | 66 | 40 | 21.5 | 20   | 86  |
| 50°            | 31.1         | 183.35 | -13.65 | 53.5 | 243.75 | 116 | 146 | 106 | 60 | 40 | 21.5 | 15   | 86  |

\* PER INCLINAZIONI FUORI STANDARD RIVOLGERSI ALL'UFFICIO TECNICO NEWSTARK / \* FOR NON-STANDARD INCLINATIONS, PLEASE CONTACT NEWSTARK TECHNICAL OFFICE.  
 / \* FÜR NICHT STANDARDMÄSSIGE NEIGUNGEN WENDEN SIE SICH BITTE AN DAS TECHNISCHE BÜRO VON NEWSTARK

0011 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



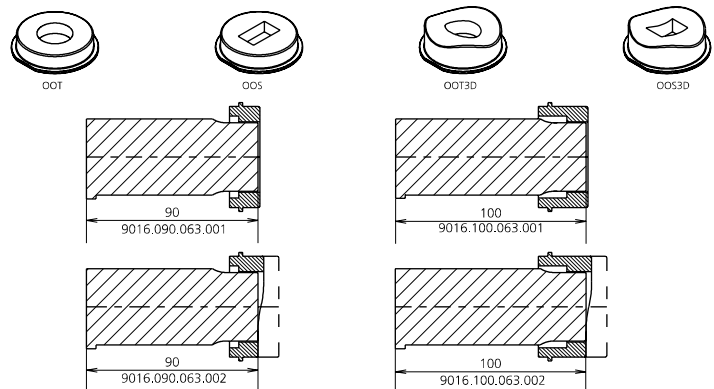
013 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



011 (093J\_) PUNZONE SAGOMATO / SHAPED PUNCH / GEFORMT SCHNEIDSTEMPEL ISO8020



013 (8016) PREMILAMIERA SAGOMATO / SHAPED BLANKHOLDER / GEFORMT BLECHHALTER



012 (9003) SENSORE / SENSOR / SENSOR



12 PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0148.3303** INCLINATION **+10°** BLANKHOLDER **9016/8016.** \_\_\_\_\_ OPTION CODE **9003.0001**



## CAM SUPER SMEG

- IT** Camma meccanica di potenza fino a 60.000 daN con ritorno garantito mediante cilindri ad azoto, su cui vengono applicati gli accessori o gli acciai per eseguire le lavorazioni desiderate. Questa camma viene montata in posizione inclinata da 5° a 50° rispetto alla verticale. Possibili applicazioni: adatta a lavori generalmente di trancitura, foratura e piegatura.
- EN** Mechanical cam with a power of up to 60.000 daN with guaranteed return through nitrogen cylinders, on which the accessories or steels are applied to perform the desired machining operations. This cam is mounted at an angle of 5° to 50° from the vertical. Means of application: generally suitable for cutting, drilling and bending works.
- DE** Mechanische Schieber mit einer Kraft von bis zu 60.000 daN und einem durch Stickstoffzylinder garantierten Rücklauf, an dem Zubehör oder Stähle angebracht werden, um die gewünschte Bearbeitung durchzuführen. Diese Stanzeinheit wird in einer geneigten Position von 5° bis 50° in Bezug auf die Vertikale montiert. Mögliche Anwendungen: Stanzen, Biegen und Prägen.
- FR** Came mécanique avec une puissance jusqu'à 60.000 daN avec retour garanti par des cylindres d'azote, sur laquelle on applique des accessoires ou des aciers pour effectuer l'usinage souhaité. Cette came est montée dans une position inclinée de 5° à 50° par rapport à la verticale. Applications possibles: convient pour les travaux de découpage, de perçage et de pliage.



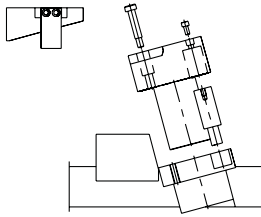
### PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE





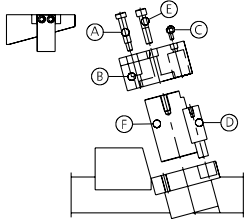
# CAM SUPER SMEG

DISEGNO DEL MONTAGGIO / MOUNTING DESIGN / MONTAGEZEICHNUNG / DESSIN DU MONTAGE



- ⚠ ATTENZIONE:**  
per eseguire la prova manualmente togliere i cilindri come indicato.  
ATTENTION:  
in order to manually perform the test, extract the cylinder as indicated.  
ACHTUNG:  
Stickstoffzylinder verbaut, Schieber nur in Grundstellung öffnen.  
ATTENTION:  
pour effectuer le test, retirer manuellement le cylindre comme indiqué.

SMONTAGGIO PRODOTTO SUPER SMEG / PRODUCT DISASSEMBLY SUPER SMEG / DEMONTAGE DES PRODUKTES SUPER SMEG / DÉMONTAGE PRODUIT SUPER SMEG



- ⚠ ATTENZIONE:** cilindro a gas in pressione.  
ATTENTION: gas cylinder under pressure.  
ACHTUNG: Gasdruckfeder steht unter hohem Druck.  
ATTENTION: cylindre à gaz sous pression.

- IT** **Attenzione:** Assicurarsi che la camma sia nella sua posizione normale prima di eseguire qualsiasi lavoro di smontaggio o manutenzione.
1. Togliere il "portapunzoni "B" rimuovendo le viti a colletto "A".
  2. Togliere i cilindri "D" rimuovendo le viti "C".
  3. Togliere il perno centrale "F" rimuovendo le viti "C".
  4. Eseguire le verifiche.
  5. Rimontare con cura lubrificando con grasso bisolfuro di Molibdeno (MoS<sub>2</sub>). L'uso di questo grasso viene consigliato da Newstark.
  6. Assicurare il corretto riposizionamento dei singoli componenti. Lubrificare durante l'uso con grasso bisolfuro di Molibdeno (MoS<sub>2</sub>).

- EN** **Attention:** Undertake reassembly or maintenance work only when the cam unit is in its basic position.
1. Take off the punch holder "B" by removing the shoulder screws "A".
  2. Remove cylinders "D" by removing screws "C".
  3. Remove the central pin "F" by removing the screws "C".
  4. Check the components.
  5. Reassemble carefully using grease with disulfide molybdeno (MoS<sub>2</sub>). The use of this grease is recommended by Newstark.
  6. Ensure the correct positioning of the individual components. During use lubricate with grease with disulfide molybdeno (MoS<sub>2</sub>).

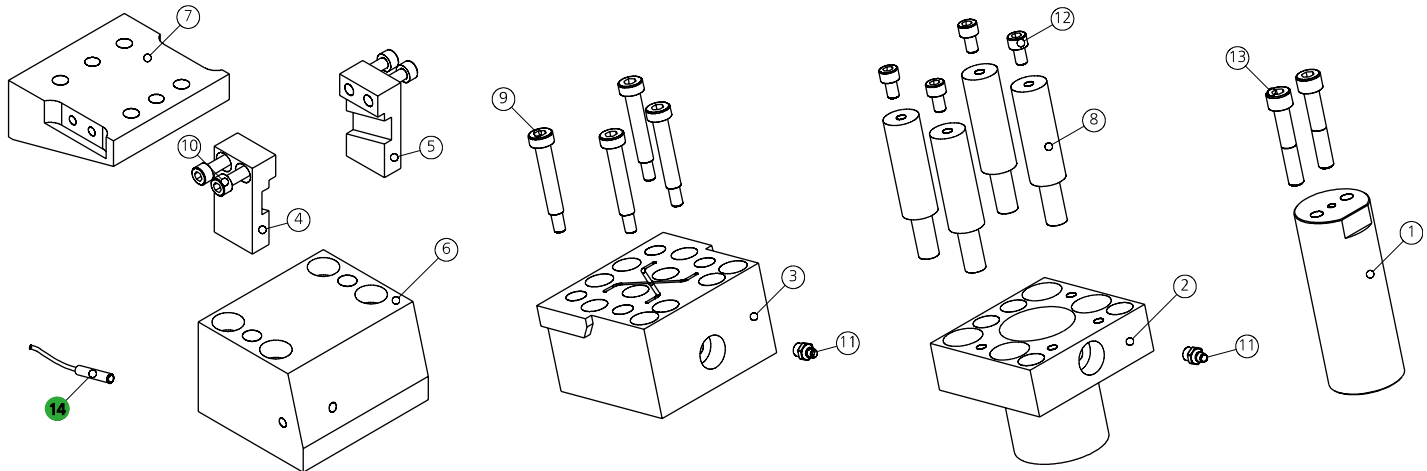
- DE** **Achtung:** Wartungs- und Demontearbeiten nur in Grundstellung der Stanzeinheit vornehmen.
1. Trägerplatte "B" entfernen um die Ansatzschraube "A" herauszuziehen.
  2. Entfernen Sie die Zylinder "D" durch Entfernen der Schrauben "C".
  3. Entfernen Sie den Mittelstift "F", indem Sie die Schrauben "C" entfernen.
  4. Komponenten prüfen.
  5. Montage in umgekehrter Reihenfolge unter Verwendung von Molybdändisulfidfett (MoS<sub>2</sub>). Die Verwendung dieses Fett wird durch Newstark empfohlen.
  6. Auf richtigen Sitz der einzelnen Komponenten achten. Während des Gebrauches, mit Molybdändisulfidfett (MoS<sub>2</sub>) nachschmieren.

- FR** **Attention:** S'assurer d'abord que la came est dans sa position normale avant d'effectuer tout travail de démontage ou de maintenance.
1. Retirer le porte-poinçon "C" en retirant les vis à colerette "A".
  2. Retirez les cylindres "D" en enlevant les vis "C".
  3. Retirez la goupille centrale "F" en enlevant les vis "C".
  4. Effectuer les contrôles.
  5. Remonter soigneusement en lubrifiant avec de la graisse au bisulfure de molybdène (MoS<sub>2</sub>). Newstark recommande l'utilisation de cette graisse.
  6. S'assurer que les différents éléments sont correctement repositionnés. Lubrifier avec de la graisse au bisulfure de molybdène (MoS<sub>2</sub>).

# 0151.0604 - CAM SUPER-SMEG0604

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **680 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1030 daN**  
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **6000 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE



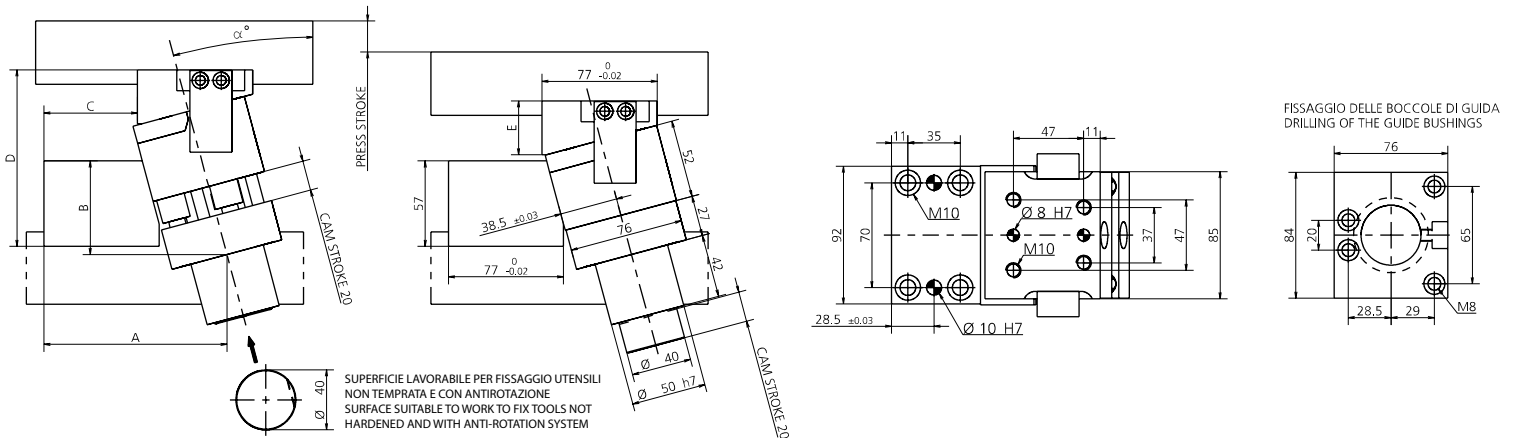
| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8018.1000.0000.400.001</b> | PERNO CENTRALE / CENTRAL PIN / HAUPTSTIFT                              | 1        |
| 002  | <b>8013.0690.0500.400.001</b> | BOCCOLA DI GUIDA / GUIDE BUSHINGS / FÜHRUNGSBUCHSE                     | 1        |
| 003  | <b>8014.0051.0604</b>         | PORTA PUNZONE / PUNCHES HOLDER / TRÄGERPLATTE                          | 1        |
| 004  | <b>8115.4851.0504.05.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°  | 1*CHOOSE |
| 004  | <b>8115.4851.0504.10.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10° | 1*CHOOSE |
| 004  | <b>8115.4851.0504.15.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15° | 1*CHOOSE |
| 004  | <b>8115.4851.0504.20.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20° | 1*CHOOSE |
| 004  | <b>8115.4851.0504.25.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25° | 1*CHOOSE |
| 004  | <b>8115.4851.0504.30.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30° | 1*CHOOSE |
| 004  | <b>8115.4851.0504.35.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35° | 1*CHOOSE |
| 004  | <b>8115.4851.0504.40.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40° | 1*CHOOSE |
| 004  | <b>8115.4851.0504.45.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45° | 1*CHOOSE |
| 004  | <b>8115.4851.0504.50.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50° | 1*CHOOSE |
| 005  | <b>8115.4851.0504.05.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°  | 1*CHOOSE |
| 005  | <b>8115.4851.0504.10.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10° | 1*CHOOSE |
| 005  | <b>8115.4851.0504.15.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15° | 1*CHOOSE |
| 005  | <b>8115.4851.0504.20.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20° | 1*CHOOSE |
| 005  | <b>8115.4851.0504.25.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25° | 1*CHOOSE |
| 005  | <b>8115.4851.0504.30.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30° | 1*CHOOSE |
| 005  | <b>8115.4851.0504.35.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35° | 1*CHOOSE |
| 005  | <b>8115.4851.0504.40.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40° | 1*CHOOSE |

| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 005  | <b>8115.4851.0504.45.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45° | 1*CHOOSE |
| 005  | <b>8115.4851.0504.50.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50° | 1*CHOOSE |
| 006  | <b>8117.4851.0504.05.001</b>  | GUIDA / GUIDE / FÜHRUNG 5°   | 1*CHOOSE |
| 006  | <b>8117.4851.0504.10.001</b>  | GUIDA / GUIDE / FÜHRUNG 10°  | 1*CHOOSE |
| 006  | <b>8117.4851.0504.15.001</b>  | GUIDA / GUIDE / FÜHRUNG 15°  | 1*CHOOSE |
| 006  | <b>8117.4851.0504.20.001</b>  | GUIDA / GUIDE / FÜHRUNG 20°  | 1*CHOOSE |
| 006  | <b>8117.4851.0504.25.001</b>  | GUIDA / GUIDE / FÜHRUNG 25°  | 1*CHOOSE |
| 006  | <b>8117.4851.0504.30.001</b>  | GUIDA / GUIDE / FÜHRUNG 30°  | 1*CHOOSE |
| 006  | <b>8117.4851.0504.35.001</b>  | GUIDA / GUIDE / FÜHRUNG 35°  | 1*CHOOSE |
| 006  | <b>8117.4851.0504.40.001</b>  | GUIDA / GUIDE / FÜHRUNG 40°  | 1*CHOOSE |
| 006  | <b>8117.4851.0504.45.001</b>  | GUIDA / GUIDE / FÜHRUNG 45°  | 1*CHOOSE |
| 006  | <b>8117.4851.0504.50.001</b>  | GUIDA / GUIDE / FÜHRUNG 50°  | 1*CHOOSE |
| 007  | <b>8116.4851.0504.05.001</b>  | INCUDINE / ANVIL / TREIBER 5°  | 1*CHOOSE |
| 007  | <b>8116.4851.0504.10.001</b>  | INCUDINE / ANVIL / TREIBER 10°   | 1*CHOOSE |
| 007  | <b>8116.4851.0504.15.001</b>  | INCUDINE / ANVIL / TREIBER 15°   | 1*CHOOSE |
| 007  | <b>8116.4851.0504.20.001</b>  | INCUDINE / ANVIL / TREIBER 20°   | 1*CHOOSE |
| 007  | <b>8116.4851.0504.25.001</b>  | INCUDINE / ANVIL / TREIBER 25°   | 1*CHOOSE |
| 007  | <b>8116.4851.0504.30.001</b>  | INCUDINE / ANVIL / TREIBER 30°   | 1*CHOOSE |
| 007  | <b>8116.4851.0504.35.001</b>  | INCUDINE / ANVIL / TREIBER 35°   | 1*CHOOSE |
| 007  | <b>8116.4851.0504.40.001</b>  | INCUDINE / ANVIL / TREIBER 40°   | 1*CHOOSE |
| 007  | <b>8116.4851.0504.45.001</b>  | INCUDINE / ANVIL / TREIBER 45°   | 1*CHOOSE |
| 007  | <b>8116.4851.0504.50.001</b>  | INCUDINE / ANVIL / TREIBER 50°   | 1*CHOOSE |
| 008  | <b>9000.0025.0019.007</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER             | 4        |
| 009  | <b>9008.0608.040</b>          | VITE A COLLETTO / SHOULDER SCREW / ANSATZSCHRAUBE                      | 4        |
| 010  | <b>9007.06.020.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X20  | 4        |
| 011  | <b>9006.002</b>               | INGRASSATORE / NIPPLES / SCHMIERUNG                                    | 2        |
| 012  | <b>9007.06.010.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X10  | 4        |
| 013  | <b>9007.08.045.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X45  | 2        |
| 014  | <b>9003.0001</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT         | 1*OPTION |

# 0151.0604 - CAM SUPER-SMEG0604

PATENT PENDING

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **680 daN** SFORZO MAX TRANCIO **6000 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1030 daN** CUTTING MAX FORCE  
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE



| α°  | PRESS STROKE | A      | B    | C     | D      | E  |
|-----|--------------|--------|------|-------|--------|----|
| 5°  | 20.1         | 118.15 | 70.5 | 73.8  | 109.5  | 27 |
| 10° | 20.3         | 120.4  | 66.5 | 68.55 | 110.75 | 28 |
| 15° | 20.7         | 122.3  | 62.5 | 62.5  | 117.85 | 36 |
| 20° | 21.3         | 123.2  | 56.5 | 55.9  | 125.6  | 42 |
| 25° | 22.05        | 123.85 | 51.5 | 49.05 | 132    | 49 |
| 30° | 23.1         | 126.85 | 46.8 | 46    | 139.1  | 57 |
| 35° | 24.4         | 124.2  | 37.8 | 36.9  | 149.65 | 66 |
| 40° | 26.1         | 122.5  | 31.8 | 28.65 | 157.1  | 72 |
| 45° | 28.3         | 121.45 | 25.5 | 24    | 158.3  | 68 |
| 50° | 31.1         | 115.45 | 17.5 | 14    | 171.25 | 81 |

\* PER INCLINAZIONI FUORI STANDARD RIVOLGERSI ALL'UFFICIO TECNICONESTARK / \* FOR NON-STANDARD INCLINATIONS, PLEASE CONTACT NEWSTARK TECHNICAL OFFICE.  
 / \* FÜR NICHT STANDARDMÄSSIGE NEIGUNGEN WENDEN SIE SICH BITTE AN DAS TECHNISCHE BÜRO VON NEWSTARK

014 (9003) SENSORE / SENSOR / SENSOR



14 PATENT PENDING

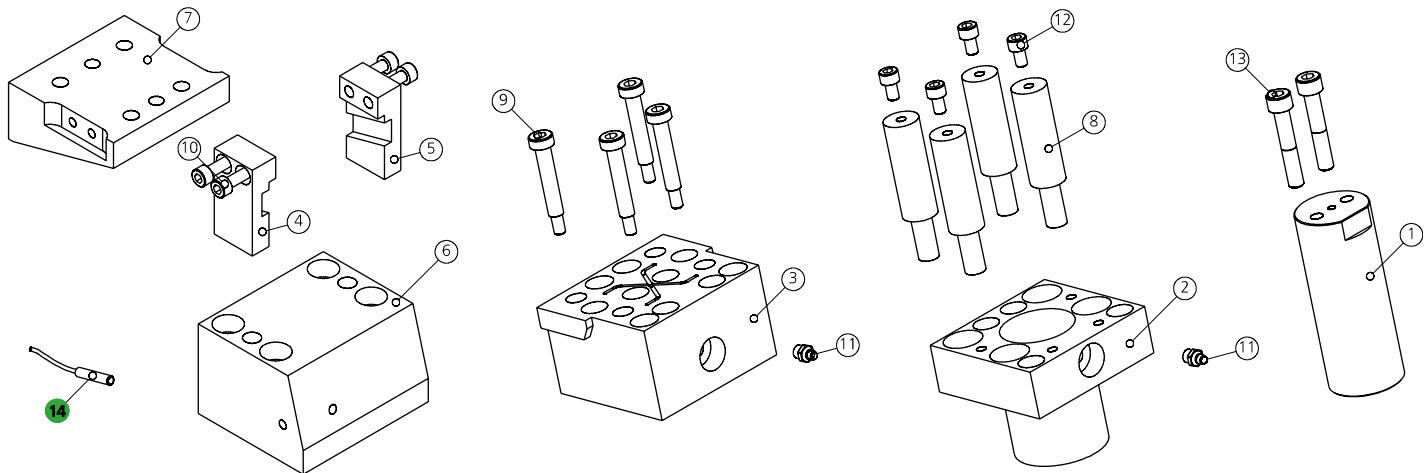
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0151.0604** INCLINATION **+10°** OPTION CODE **9003.0001**

# 0151.0605 - CAM SUPER-SMEG0605

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **680 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1030 daN**  
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **8000 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE



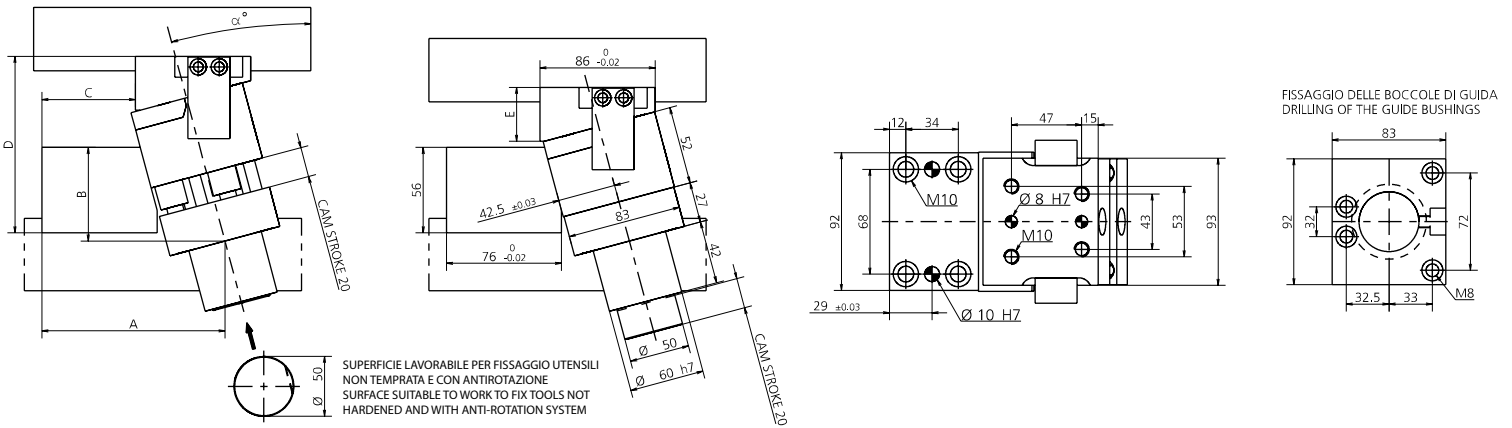
| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8018.1000.0000.500.001</b> | PERNO CENTRALE / CENTRAL PIN / HAUPTSTIFT                              | 1        |
| 002  | <b>8013.0690.0600.500.001</b> | BOCCOLA DI GUIDA / GUIDE BUSHINGS / FÜHRUNGSBUCHSE                     | 1        |
| 003  | <b>8014.0051.0605</b>         | PORTA PUNZONE / PUNCHES HOLDER / TRÄGERPLATTE                          | 1        |
| 004  | <b>8115.4851.0605.05.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°  | 1*CHOOSE |
| 004  | <b>8115.4851.0605.10.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10° | 1*CHOOSE |
| 004  | <b>8115.4851.0605.15.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15° | 1*CHOOSE |
| 004  | <b>8115.4851.0605.20.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20° | 1*CHOOSE |
| 004  | <b>8115.4851.0605.25.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25° | 1*CHOOSE |
| 004  | <b>8115.4851.0605.30.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30° | 1*CHOOSE |
| 004  | <b>8115.4851.0605.35.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35° | 1*CHOOSE |
| 004  | <b>8115.4851.0605.40.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40° | 1*CHOOSE |
| 004  | <b>8115.4851.0605.45.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45° | 1*CHOOSE |
| 004  | <b>8115.4851.0605.50.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50° | 1*CHOOSE |
| 005  | <b>8115.4851.0605.05.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°  | 1*CHOOSE |
| 005  | <b>8115.4851.0605.10.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10° | 1*CHOOSE |
| 005  | <b>8115.4851.0605.15.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15° | 1*CHOOSE |
| 005  | <b>8115.4851.0605.20.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20° | 1*CHOOSE |
| 005  | <b>8115.4851.0605.25.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25° | 1*CHOOSE |
| 005  | <b>8115.4851.0605.30.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30° | 1*CHOOSE |
| 005  | <b>8115.4851.0605.35.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35° | 1*CHOOSE |
| 005  | <b>8115.4851.0605.40.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40° | 1*CHOOSE |
| 005  | <b>8115.4851.0605.45.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45° | 1*CHOOSE |

| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 005  | <b>8115.4851.0605.50.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50° | 1*CHOOSE |
| 006  | <b>8117.4851.0605.05.001</b>  | GUIDA / GUIDE / FÜHRUNG 5°   | 1*CHOOSE |
| 006  | <b>8117.4851.0605.10.001</b>  | GUIDA / GUIDE / FÜHRUNG 10°  | 1*CHOOSE |
| 006  | <b>8117.4851.0605.15.001</b>  | GUIDA / GUIDE / FÜHRUNG 15°  | 1*CHOOSE |
| 006  | <b>8117.4851.0605.20.001</b>  | GUIDA / GUIDE / FÜHRUNG 20°  | 1*CHOOSE |
| 006  | <b>8117.4851.0605.25.001</b>  | GUIDA / GUIDE / FÜHRUNG 25°  | 1*CHOOSE |
| 006  | <b>8117.4851.0605.30.001</b>  | GUIDA / GUIDE / FÜHRUNG 30°  | 1*CHOOSE |
| 006  | <b>8117.4851.0605.35.001</b>  | GUIDA / GUIDE / FÜHRUNG 35°  | 1*CHOOSE |
| 006  | <b>8117.4851.0605.40.001</b>  | GUIDA / GUIDE / FÜHRUNG 40°  | 1*CHOOSE |
| 006  | <b>8117.4851.0605.45.001</b>  | GUIDA / GUIDE / FÜHRUNG 45°  | 1*CHOOSE |
| 006  | <b>8117.4851.0605.50.001</b>  | GUIDA / GUIDE / FÜHRUNG 50°  | 1*CHOOSE |
| 007  | <b>8116.4851.0605.05.001</b>  | INCUDINE / ANVIL / TREIBER 5°  | 1*CHOOSE |
| 007  | <b>8116.4851.0605.10.001</b>  | INCUDINE / ANVIL / TREIBER 10°   | 1*CHOOSE |
| 007  | <b>8116.4851.0605.15.001</b>  | INCUDINE / ANVIL / TREIBER 15°   | 1*CHOOSE |
| 007  | <b>8116.4851.0605.20.001</b>  | INCUDINE / ANVIL / TREIBER 20°   | 1*CHOOSE |
| 007  | <b>8116.4851.0605.25.001</b>  | INCUDINE / ANVIL / TREIBER 25°   | 1*CHOOSE |
| 007  | <b>8116.4851.0605.30.001</b>  | INCUDINE / ANVIL / TREIBER 30°   | 1*CHOOSE |
| 007  | <b>8116.4851.0605.35.001</b>  | INCUDINE / ANVIL / TREIBER 35°   | 1*CHOOSE |
| 007  | <b>8116.4851.0605.40.001</b>  | INCUDINE / ANVIL / TREIBER 40°   | 1*CHOOSE |
| 007  | <b>8116.4851.0605.45.001</b>  | INCUDINE / ANVIL / TREIBER 45°   | 1*CHOOSE |
| 007  | <b>8116.4851.0605.50.001</b>  | INCUDINE / ANVIL / TREIBER 50°   | 1*CHOOSE |
| 008  | <b>9000.0025.0019.007</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER             | 4        |
| 009  | <b>9008.0608.040</b>          | VITE A COLLETO / SHOULDER SCREW / ANSATZSCHRAUBE                       | 4        |
| 010  | <b>9007.06.020.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X20  | 4        |
| 011  | <b>9006.002</b>               | INGRASSATORE / NIPPLES / SCHMIERUNG                                    | 2        |
| 012  | <b>9007.06.010.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X10  | 4        |
| 013  | <b>9007.08.045.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X45  | 2        |
| 014  | <b>9003.0001</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT         | 1*OPTION |

# 0151.0605 - CAM SUPER-SMEG0605

PATENT PENDING

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **680 daN** SFORZO MAX TRANCIO **8000 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1030 daN** CUTTING MAX FORCE  
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE



| $\alpha^\circ$ | PRESS STROKE | A      | B    | C     | D      | E  |
|----------------|--------------|--------|------|-------|--------|----|
| 5°             | 20.1         | 121.3  | 72.5 | 70    | 107.15 | 28 |
| 10°            | 20.3         | 123.65 | 67.5 | 64.3  | 114.5  | 35 |
| 15°            | 20.7         | 125.45 | 62.5 | 58.15 | 118.7  | 38 |
| 20°            | 21.3         | 126.8  | 57.5 | 52.5  | 125.8  | 46 |
| 25°            | 22.05        | 127.25 | 51.5 | 45.45 | 133.4  | 53 |
| 30°            | 23.1         | 126    | 41.8 | 38.15 | 140.7  | 58 |
| 35°            | 24.4         | 126.2  | 37.8 | 31.35 | 146.2  | 63 |
| 40°            | 26.1         | 123.55 | 30.8 | 22.7  | 155.25 | 71 |
| 45°            | 28.3         | 127.6  | 22.5 | 21.15 | 161.7  | 76 |
| 50°            | 31.1         | 123.6  | 15.5 | 14.2  | 175.2  | 86 |

\* PER INCLINAZIONI FUORI STANDARD RIVOLGERSI ALL'UFFICIO TECNICONESTARK / \* FOR NON-STANDARD INCLINATIONS, PLEASE CONTACT NEWSTARK TECHNICAL OFFICE.  
 / \* FÜR NICHT STANDARDMÄSSIGE NEIGUNGEN WENDEN SIE SICH BITTE AN DAS TECHNISCHE BÜRO VON NEWSTARK

014 (9003) SENSORE / SENSOR / SENSOR



14 PATENT PENDING

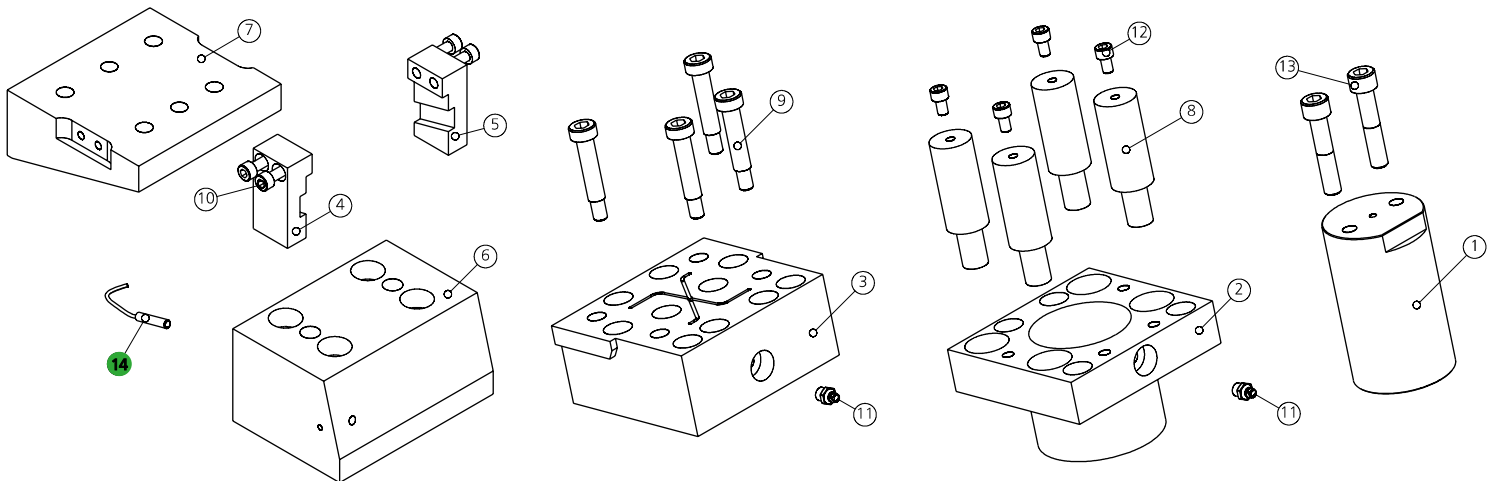
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0151.0605** INCLINATION **+10°** OPTION CODE **9003.0001**

# 0151.1206 - CAM SUPER-SMEG1206

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **1280 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1925 daN**  
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **12000 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE

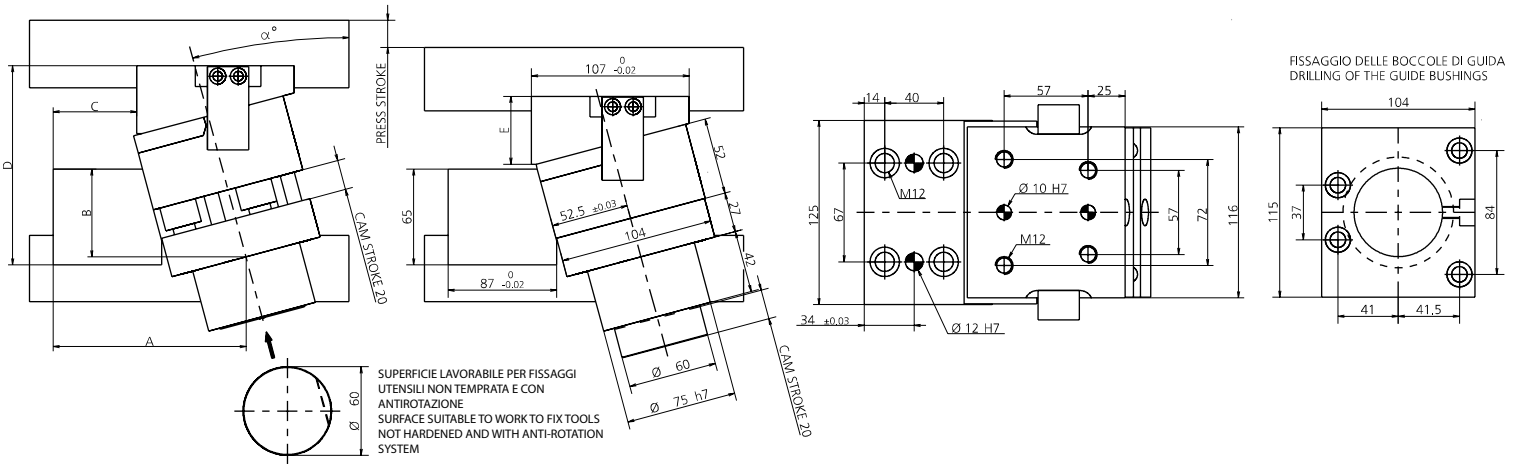


| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8018.1000.0000.600.001</b> | PERNO CENTRALE / CENTRAL PIN / HAUPTSTIFT                              | 1        |
| 002  | <b>8013.0690.0750.600.001</b> | BOCCOLA DI GUIDA / GUIDE BUSHINGS / FÜHRUNGSBUCHSE                     | 1        |
| 003  | <b>8014.0051.1206</b>         | PORTA PUNZONE / PUNCHES HOLDER / TRÄGERPLATTE                          | 1        |
| 004  | <b>8115.4851.1106.05.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°  | 1*CHOOSE |
| 004  | <b>8115.4851.1106.10.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10° | 1*CHOOSE |
| 004  | <b>8115.4851.1106.15.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15° | 1*CHOOSE |
| 004  | <b>8115.4851.1106.20.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20° | 1*CHOOSE |
| 004  | <b>8115.4851.1106.25.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25° | 1*CHOOSE |
| 004  | <b>8115.4851.1106.30.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30° | 1*CHOOSE |
| 004  | <b>8115.4851.1106.35.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35° | 1*CHOOSE |
| 004  | <b>8115.4851.1106.40.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40° | 1*CHOOSE |
| 004  | <b>8115.4851.1106.45.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45° | 1*CHOOSE |
| 004  | <b>8115.4851.1106.50.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50° | 1*CHOOSE |
| 005  | <b>8115.4851.1106.05.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°  | 1*CHOOSE |
| 005  | <b>8115.4851.1106.10.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10° | 1*CHOOSE |
| 005  | <b>8115.4851.1106.15.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15° | 1*CHOOSE |
| 005  | <b>8115.4851.1106.20.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20° | 1*CHOOSE |
| 005  | <b>8115.4851.1106.25.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25° | 1*CHOOSE |
| 005  | <b>8115.4851.1106.30.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30° | 1*CHOOSE |
| 005  | <b>8115.4851.1106.35.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35° | 1*CHOOSE |
| 005  | <b>8115.4851.1106.40.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40° | 1*CHOOSE |
| 005  | <b>8115.4851.1106.45.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45° | 1*CHOOSE |

| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 005  | <b>8115.4851.1106.50.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50° | 1*CHOOSE |
| 006  | <b>8117.4851.1106.05.001</b>  | GUIDA / GUIDE / FÜHRUNG 5°   | 1*CHOOSE |
| 006  | <b>8117.4851.1106.10.001</b>  | GUIDA / GUIDE / FÜHRUNG 10°  | 1*CHOOSE |
| 006  | <b>8117.4851.1106.15.001</b>  | GUIDA / GUIDE / FÜHRUNG 15°  | 1*CHOOSE |
| 006  | <b>8117.4851.1106.20.001</b>  | GUIDA / GUIDE / FÜHRUNG 20°  | 1*CHOOSE |
| 006  | <b>8117.4851.1106.25.001</b>  | GUIDA / GUIDE / FÜHRUNG 25°  | 1*CHOOSE |
| 006  | <b>8117.4851.1106.30.001</b>  | GUIDA / GUIDE / FÜHRUNG 30°  | 1*CHOOSE |
| 006  | <b>8117.4851.1106.35.001</b>  | GUIDA / GUIDE / FÜHRUNG 35°  | 1*CHOOSE |
| 006  | <b>8117.4851.1106.40.001</b>  | GUIDA / GUIDE / FÜHRUNG 40°  | 1*CHOOSE |
| 006  | <b>8117.4851.1106.45.001</b>  | GUIDA / GUIDE / FÜHRUNG 45°  | 1*CHOOSE |
| 006  | <b>8117.4851.1106.50.001</b>  | GUIDA / GUIDE / FÜHRUNG 50°  | 1*CHOOSE |
| 007  | <b>8116.4851.1106.05.001</b>  | INCUDINE / ANVIL / TREIBER 5°  | 1*CHOOSE |
| 007  | <b>8116.4851.1106.10.001</b>  | INCUDINE / ANVIL / TREIBER 10°   | 1*CHOOSE |
| 007  | <b>8116.4851.1106.15.001</b>  | INCUDINE / ANVIL / TREIBER 15°   | 1*CHOOSE |
| 007  | <b>8116.4851.1106.20.001</b>  | INCUDINE / ANVIL / TREIBER 20°   | 1*CHOOSE |
| 007  | <b>8116.4851.1106.25.001</b>  | INCUDINE / ANVIL / TREIBER 25°   | 1*CHOOSE |
| 007  | <b>8116.4851.1106.30.001</b>  | INCUDINE / ANVIL / TREIBER 30°   | 1*CHOOSE |
| 007  | <b>8116.4851.1106.35.001</b>  | INCUDINE / ANVIL / TREIBER 35°   | 1*CHOOSE |
| 007  | <b>8116.4851.1106.40.001</b>  | INCUDINE / ANVIL / TREIBER 40°   | 1*CHOOSE |
| 007  | <b>8116.4851.1106.45.001</b>  | INCUDINE / ANVIL / TREIBER 45°   | 1*CHOOSE |
| 007  | <b>8116.4851.1106.50.001</b>  | INCUDINE / ANVIL / TREIBER 50°   | 1*CHOOSE |
| 008  | <b>9000.0025.0025.001</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER             | 4        |
| 009  | <b>9008.0810.040</b>          | VITE A COLLETO / SHOULDER SCREW / ANSATZSCHRAUBE                       | 4        |
| 010  | <b>9007.06.020.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X20  | 4        |
| 011  | <b>9006.002</b>               | INGRASSATORE / NIPPLES / SCHMIERUNG                                    | 2        |
| 012  | <b>9007.06.010.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X10  | 4        |
| 013  | <b>9007.10.050.129.1.4762</b> | VITE / SCREW / SCHRAUBE M10X50   | 2        |
| 014  | <b>9003.0001</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT         | 1*OPTION |



FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **1280 daN** SFORZO MAX TRANCIO **12000 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1925 daN** CUTTING MAX FORCE  
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE



| $\alpha^\circ$ | PRESS STROKE | A      | B    | C     | D      | E   |
|----------------|--------------|--------|------|-------|--------|-----|
| 5°             | 20.1         | 141.7  | 71.6 | 83.45 | 123.4  | 35  |
| 10°            | 20.3         | 143.3  | 65.6 | 77    | 125.5  | 35  |
| 15°            | 20.7         | 144.23 | 56.6 | 70    | 135    | 46  |
| 20°            | 21.3         | 144.6  | 53.6 | 63.85 | 144.65 | 54  |
| 25°            | 22.05        | 144.15 | 47.1 | 55.9  | 154.25 | 64  |
| 30°            | 23.1         | 143.75 | 36.9 | 48    | 159    | 67  |
| 35°            | 24.4         | 142.9  | 31.9 | 41.15 | 167.75 | 76  |
| 40°            | 26.1         | 139.85 | 24.9 | 32.6  | 179.25 | 86  |
| 45°            | 28.3         | 138.35 | 14.6 | 25    | 193    | 96  |
| 50°            | 31.1         | 134.25 | 8.6  | 16.9  | 207.05 | 108 |

\* PER INCLINAZIONI FUORI STANDARD RIVOLGERSI ALL'UFFICIO TECNICONEWSTARK / \* FOR NON-STANDARD INCLINATIONS, PLEASE CONTACT NEWSTARK TECHNICAL OFFICE.  
 / \* FÜR NICHT STANDARDMÄSSIGE NEIGUNGEN WENDEN SIE SICH BITTE AN DAS TECHNISCHE BÜRO VON NEWSTARK

014 (9003) SENSORE / SENSOR / SENSOR

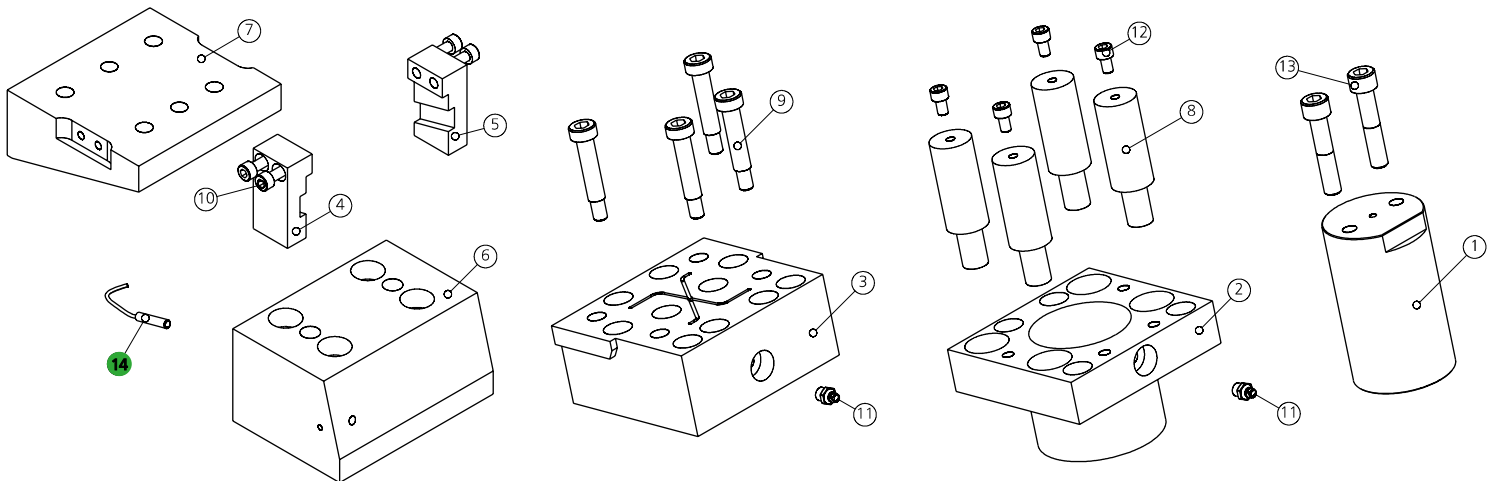


**14** PATENT PENDING

# 0151.1207 - CAM SUPER-SMEG1207

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **1280 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1925 daN**  
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION

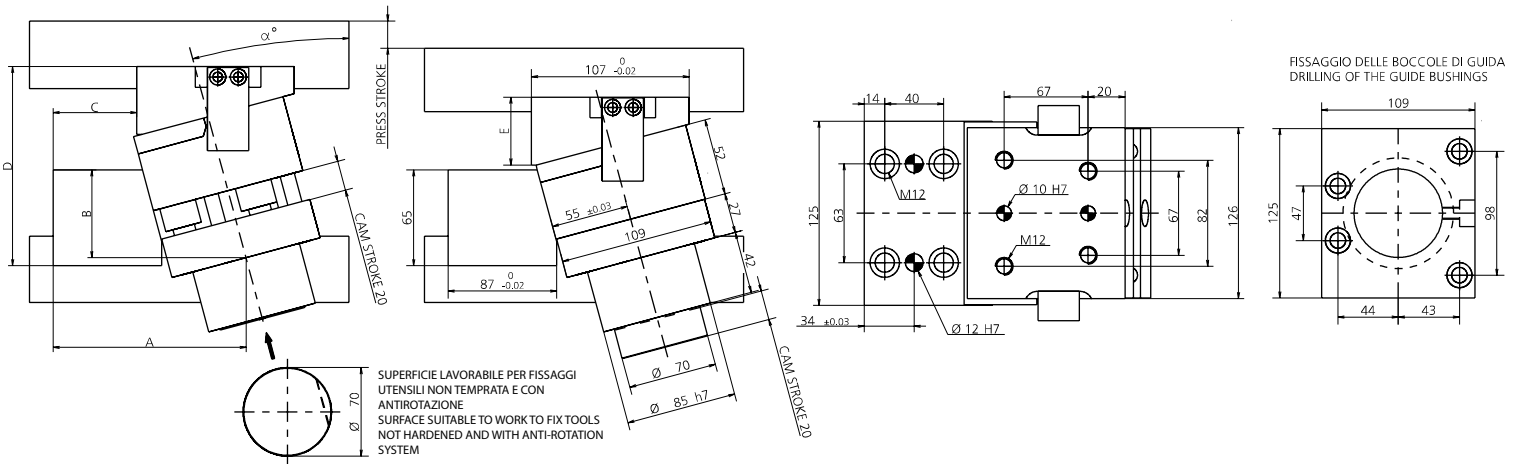
SFORZO MAX TRANCIO **15000 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE



| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8018.1000.0000.700.001</b> | PERNO CENTRALE / CENTRAL PIN / HAUPTSTIFT                              | 1        |
| 002  | <b>8013.0690.0850.700.001</b> | BOCCOLA DI GUIDA / GUIDE BUSHINGS / FÜHRUNGSBUCHSE                     | 1        |
| 003  | <b>8014.0051.1207</b>         | PORTA PUNZONE / PUNCHES HOLDER / TRÄGERPLATTE                          | 1        |
| 004  | <b>8115.4851.1307.05.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°  | 1*CHOOSE |
| 004  | <b>8115.4851.1307.10.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10° | 1*CHOOSE |
| 004  | <b>8115.4851.1307.15.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15° | 1*CHOOSE |
| 004  | <b>8115.4851.1307.20.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20° | 1*CHOOSE |
| 004  | <b>8115.4851.1307.25.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25° | 1*CHOOSE |
| 004  | <b>8115.4851.1307.30.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30° | 1*CHOOSE |
| 004  | <b>8115.4851.1307.35.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35° | 1*CHOOSE |
| 004  | <b>8115.4851.1307.40.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40° | 1*CHOOSE |
| 004  | <b>8115.4851.1307.45.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45° | 1*CHOOSE |
| 004  | <b>8115.4851.1307.50.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50° | 1*CHOOSE |
| 005  | <b>8115.4851.1307.05.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°  | 1*CHOOSE |
| 005  | <b>8115.4851.1307.10.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10° | 1*CHOOSE |
| 005  | <b>8115.4851.1307.15.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15° | 1*CHOOSE |
| 005  | <b>8115.4851.1307.20.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20° | 1*CHOOSE |
| 005  | <b>8115.4851.1307.25.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25° | 1*CHOOSE |
| 005  | <b>8115.4851.1307.30.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30° | 1*CHOOSE |
| 005  | <b>8115.4851.1307.35.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35° | 1*CHOOSE |
| 005  | <b>8115.4851.1307.40.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40° | 1*CHOOSE |
| 005  | <b>8115.4851.1307.45.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45° | 1*CHOOSE |

| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 005  | <b>8115.4851.1307.50.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50° | 1*CHOOSE |
| 006  | <b>8117.4851.1307.05.001</b>  | GUIDA / GUIDE / FÜHRUNG 5°   | 1*CHOOSE |
| 006  | <b>8117.4851.1307.10.001</b>  | GUIDA / GUIDE / FÜHRUNG 10°  | 1*CHOOSE |
| 006  | <b>8117.4851.1307.15.001</b>  | GUIDA / GUIDE / FÜHRUNG 15°  | 1*CHOOSE |
| 006  | <b>8117.4851.1307.20.001</b>  | GUIDA / GUIDE / FÜHRUNG 20°  | 1*CHOOSE |
| 006  | <b>8117.4851.1307.25.001</b>  | GUIDA / GUIDE / FÜHRUNG 25°  | 1*CHOOSE |
| 006  | <b>8117.4851.1307.30.001</b>  | GUIDA / GUIDE / FÜHRUNG 30°  | 1*CHOOSE |
| 006  | <b>8117.4851.1307.35.001</b>  | GUIDA / GUIDE / FÜHRUNG 35°  | 1*CHOOSE |
| 006  | <b>8117.4851.1307.40.001</b>  | GUIDA / GUIDE / FÜHRUNG 40°  | 1*CHOOSE |
| 006  | <b>8117.4851.1307.45.001</b>  | GUIDA / GUIDE / FÜHRUNG 45°  | 1*CHOOSE |
| 006  | <b>8117.4851.1307.50.001</b>  | GUIDA / GUIDE / FÜHRUNG 50°  | 1*CHOOSE |
| 007  | <b>8116.4851.1307.05.001</b>  | INCUDINE / ANVIL / TREIBER 5°  | 1*CHOOSE |
| 007  | <b>8116.4851.1307.10.001</b>  | INCUDINE / ANVIL / TREIBER 10°   | 1*CHOOSE |
| 007  | <b>8116.4851.1307.15.001</b>  | INCUDINE / ANVIL / TREIBER 15°   | 1*CHOOSE |
| 007  | <b>8116.4851.1307.20.001</b>  | INCUDINE / ANVIL / TREIBER 20°   | 1*CHOOSE |
| 007  | <b>8116.4851.1307.25.001</b>  | INCUDINE / ANVIL / TREIBER 25°   | 1*CHOOSE |
| 007  | <b>8116.4851.1307.30.001</b>  | INCUDINE / ANVIL / TREIBER 30°   | 1*CHOOSE |
| 007  | <b>8116.4851.1307.35.001</b>  | INCUDINE / ANVIL / TREIBER 35°   | 1*CHOOSE |
| 007  | <b>8116.4851.1307.40.001</b>  | INCUDINE / ANVIL / TREIBER 40°   | 1*CHOOSE |
| 007  | <b>8116.4851.1307.45.001</b>  | INCUDINE / ANVIL / TREIBER 45°   | 1*CHOOSE |
| 007  | <b>8116.4851.1307.50.001</b>  | INCUDINE / ANVIL / TREIBER 50°   | 1*CHOOSE |
| 008  | <b>9000.0025.0025.001</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER             | 4        |
| 009  | <b>9008.1012.040</b>          | VITE A COLLETO / SHOULDER SCREW / ANSATZSCHRAUBE                       | 4        |
| 010  | <b>9007.06.020.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X20  | 4        |
| 011  | <b>9006.002</b>               | INGRASSATORE / NIPPLES / SCHMIERUNG                                    | 2        |
| 012  | <b>9007.06.010.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X10  | 4        |
| 013  | <b>9007.12.050.129.1.4762</b> | VITE / SCREW / SCHRAUBE M12X50   | 2        |
| 014  | <b>9003.0001</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT         | 1*OPTION |

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **1280 daN** SFORZO MAX TRANCIO **15000 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1925 daN** CUTTING MAX FORCE  
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE



| $\alpha^\circ$ | PRESS STROKE | A      | B    | C     | D      | E   |
|----------------|--------------|--------|------|-------|--------|-----|
| 5°             | 20.1         | 144    | 69.4 | 87.65 | 127.8  | 37  |
| 10°            | 20.3         | 145.6  | 64.4 | 81.25 | 127.5  | 37  |
| 15°            | 20.7         | 146.5  | 58.4 | 73.15 | 135.95 | 46  |
| 20°            | 21.3         | 146.5  | 51.4 | 66.6  | 146.65 | 54  |
| 25°            | 22.05        | 145.65 | 44.4 | 58.25 | 156.8  | 64  |
| 30°            | 23.1         | 145.55 | 35.7 | 50.65 | 160.25 | 67  |
| 35°            | 24.4         | 144.6  | 30.7 | 43.7  | 169.1  | 77  |
| 40°            | 26.1         | 140.65 | 22.7 | 33.75 | 181.3  | 87  |
| 45°            | 28.3         | 143.65 | 15.4 | 31.15 | 191.25 | 96  |
| 50°            | 31.1         | 136.65 | 6.4  | 19.15 | 207.25 | 108 |

\* PER INCLINAZIONI FUORI STANDARD RIVOLGERSI ALL'UFFICIO TECNICONESTARK / \* FOR NON-STANDARD INCLINATIONS, PLEASE CONTACT NEWSTARK TECHNICAL OFFICE.  
 / \* FÜR NICHT STANDARDMÄSSIGE NEIGUNGEN WENDEN SIE SICH BITTE AN DAS TECHNISCHE BÜRO VON NEWSTARK

014 (9003) SENSORE / SENSOR / SENSOR



**14** PATENT PENDING

# 0151.2008 - CAM SUPER-SMEG2008

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **2000 daN**

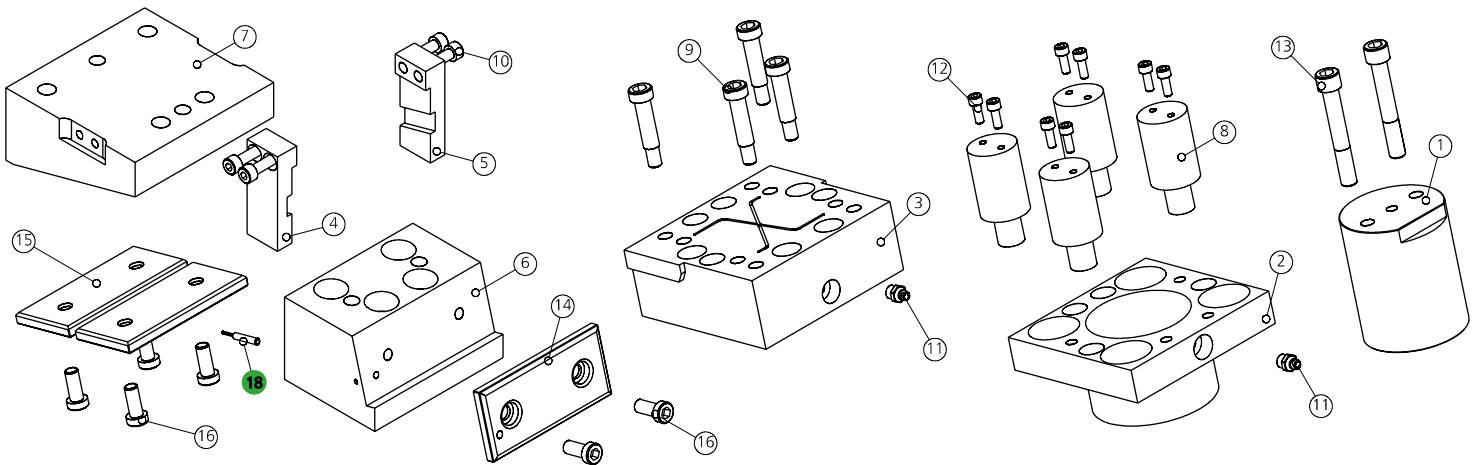
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **2700 daN**

ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **20000 daN**

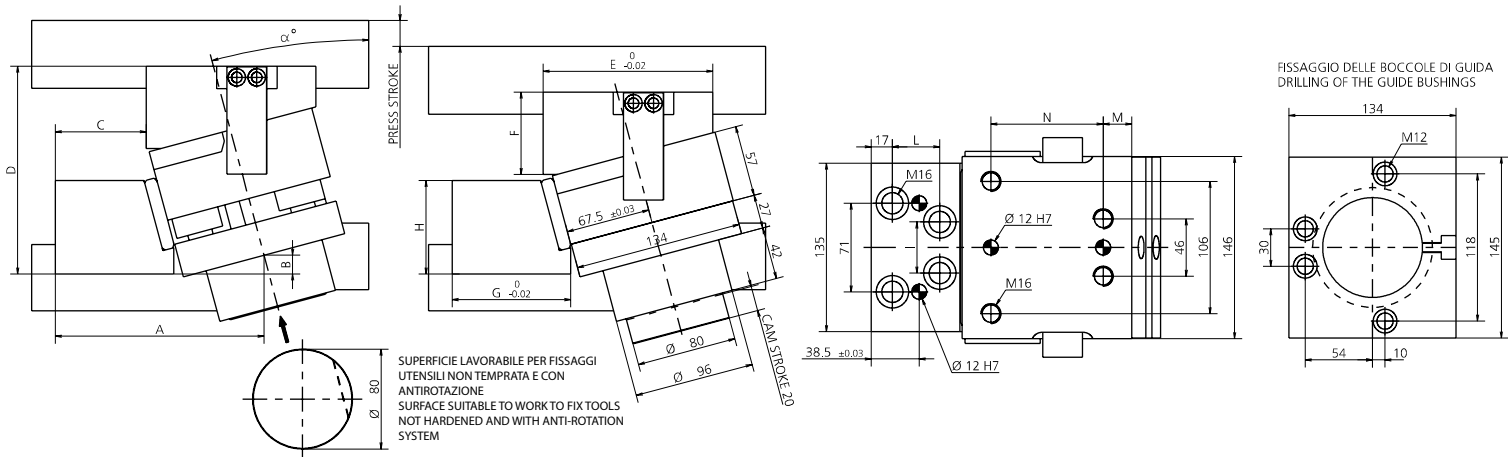
CUTTING MAX FORCE  
MAXIMALE SCHNITTKRAFT  
EFFORT MAXI DÉCOUPE



| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8018.1000.0000.800.001</b> | PERNO CENTRALE / CENTRAL PIN / HAUPTSTIFT                              | 1        |
| 002  | <b>8013.0690.0960.800.001</b> | BOCCOLA DI GUIDA / GUIDE BUSHINGS / FÜHRUNGSBUCHSE                     | 1        |
| 003  | <b>8014.0051.2008</b>         | PORTA PUNZONE / PUNCHES HOLDER / TRÄGERPLATTE                          | 1        |
| 004  | <b>8115.4851.1808.05.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°  | 1*CHOOSE |
| 004  | <b>8115.4851.1808.10.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10° | 1*CHOOSE |
| 004  | <b>8115.4851.1808.15.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15° | 1*CHOOSE |
| 004  | <b>8115.4851.1808.20.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20° | 1*CHOOSE |
| 004  | <b>8115.4851.1808.25.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25° | 1*CHOOSE |
| 004  | <b>8115.4851.1808.30.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30° | 1*CHOOSE |
| 004  | <b>8115.4851.1808.35.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35° | 1*CHOOSE |
| 004  | <b>8115.4851.1808.40.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40° | 1*CHOOSE |
| 004  | <b>8115.4851.1808.45.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45° | 1*CHOOSE |
| 004  | <b>8115.4851.1808.50.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50° | 1*CHOOSE |
| 005  | <b>8115.4851.1808.05.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°  | 1*CHOOSE |
| 005  | <b>8115.4851.1808.10.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10° | 1*CHOOSE |
| 005  | <b>8115.4851.1808.15.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15° | 1*CHOOSE |
| 005  | <b>8115.4851.1808.20.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20° | 1*CHOOSE |
| 005  | <b>8115.4851.1808.25.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25° | 1*CHOOSE |
| 005  | <b>8115.4851.1808.30.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30° | 1*CHOOSE |
| 005  | <b>8115.4851.1808.35.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35° | 1*CHOOSE |
| 005  | <b>8115.4851.1808.40.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40° | 1*CHOOSE |
| 005  | <b>8115.4851.1808.45.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45° | 1*CHOOSE |
| 005  | <b>8115.4851.1808.50.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50° | 1*CHOOSE |

| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 006  | <b>8117.4851.1808.05.001</b>  | GUIDA / GUIDE / FÜHRUNG 5°                                     | 1*CHOOSE |
| 006  | <b>8117.4851.1808.10.001</b>  | GUIDA / GUIDE / FÜHRUNG 10°                                    | 1*CHOOSE |
| 006  | <b>8117.4851.1808.15.001</b>  | GUIDA / GUIDE / FÜHRUNG 15°                                    | 1*CHOOSE |
| 006  | <b>8117.4851.1808.20.001</b>  | GUIDA / GUIDE / FÜHRUNG 20°                                    | 1*CHOOSE |
| 006  | <b>8117.4851.1808.25.001</b>  | GUIDA / GUIDE / FÜHRUNG 25°                                    | 1*CHOOSE |
| 006  | <b>8117.4851.1808.30.001</b>  | GUIDA / GUIDE / FÜHRUNG 30°                                    | 1*CHOOSE |
| 006  | <b>8117.4851.1808.35.001</b>  | GUIDA / GUIDE / FÜHRUNG 35°                                    | 1*CHOOSE |
| 006  | <b>8117.4851.1808.40.001</b>  | GUIDA / GUIDE / FÜHRUNG 40°                                    | 1*CHOOSE |
| 006  | <b>8117.4851.1808.45.001</b>  | GUIDA / GUIDE / FÜHRUNG 45°                                    | 1*CHOOSE |
| 006  | <b>8117.4851.1808.50.001</b>  | GUIDA / GUIDE / FÜHRUNG 50°                                    | 1*CHOOSE |
| 007  | <b>8116.4851.1808.05.001</b>  | INCUDINE / ANVIL / TREIBER 5°                                  | 1*CHOOSE |
| 007  | <b>8116.4851.1808.10.001</b>  | INCUDINE / ANVIL / TREIBER 10°                                 | 1*CHOOSE |
| 007  | <b>8116.4851.1808.15.001</b>  | INCUDINE / ANVIL / TREIBER 15°                                 | 1*CHOOSE |
| 007  | <b>8116.4851.1808.20.001</b>  | INCUDINE / ANVIL / TREIBER 20°                                 | 1*CHOOSE |
| 007  | <b>8116.4851.1808.25.001</b>  | INCUDINE / ANVIL / TREIBER 25°                                 | 1*CHOOSE |
| 007  | <b>8116.4851.1808.30.001</b>  | INCUDINE / ANVIL / TREIBER 30°                                 | 1*CHOOSE |
| 007  | <b>8116.4851.1808.35.001</b>  | INCUDINE / ANVIL / TREIBER 35°                                 | 1*CHOOSE |
| 007  | <b>8116.4851.1808.40.001</b>  | INCUDINE / ANVIL / TREIBER 40°                                 | 1*CHOOSE |
| 007  | <b>8116.4851.1808.45.001</b>  | INCUDINE / ANVIL / TREIBER 45°                                 | 1*CHOOSE |
| 007  | <b>8116.4851.1808.50.001</b>  | INCUDINE / ANVIL / TREIBER 50°                                 | 1*CHOOSE |
| 008  | <b>9000.0025.0038.001</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 4        |
| 009  | <b>9008.1012.040</b>          | VITE A COLLETTA / SHOULDER SCREW / ANSATZSCHRAUBE              | 4        |
| 010  | <b>9007.08.030.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X30                                  | 4        |
| 011  | <b>9006.002</b>               | INGRASSATORE / NIPPLES / SCHMIERUNG                            | 2        |
| 012  | <b>9007.06.016.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X16                                  | 8        |
| 013  | <b>9007.12.055.129.1.4762</b> | VITE / SCREW / SCHRAUBE M12X55                                 | 2        |
| 014  | <b>8012.1250.0580.100.003</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE              | 1        |
| 015  | <b>9012.1250.0580.100.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE              | 2        |
| 016  | <b>9007.10.020.129.1.9327</b> | VITE / SCREW / SCHRAUBE M10X20                                 | 6        |
| 018  | <b>9003.0001</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **2000 daN** SFORZO MAX TRANCIO **20000 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **2700 daN** CUTTING MAX FORCE  
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION EFFORT MAXI DÉCOUPE



| $\alpha^\circ$ | PRESS STROKE | A      | B    | C    | D      | E   | F   | G   | H  | I  | L  | M    | N  |
|----------------|--------------|--------|------|------|--------|-----|-----|-----|----|----|----|------|----|
| 5°             | 20.1         | 165.85 | 74.9 | 87   | 155.1  | 136 | 56  | 95  | 75 | 41 | 43 | 23   | 90 |
| 10°            | 20.3         | 166.85 | 66.9 | 80   | 156.35 | 136 | 56  | 95  | 75 | 41 | 43 | 23   | 90 |
| 15°            | 20.7         | 167.35 | 59.9 | 73   | 166.65 | 136 | 51  | 95  | 75 | 41 | 38 | 23   | 90 |
| 20°            | 21.3         | 178.35 | 50.9 | 80.5 | 168.2  | 125 | 76  | 105 | 65 | 41 | 43 | 17.5 | 90 |
| 25°            | 22.05        | 177.35 | 43.9 | 71.5 | 166.95 | 125 | 76  | 105 | 65 | 41 | 38 | 17.5 | 90 |
| 30°            | 23.1         | 186.35 | 36.9 | 72.5 | 180.5  | 125 | 90  | 115 | 65 | 41 | 43 | 17.5 | 90 |
| 35°            | 24.4         | 185.35 | 26.9 | 71   | 189.9  | 116 | 96  | 115 | 65 | 41 | 43 | 23   | 70 |
| 40°            | 26.1         | 182.35 | 19.9 | 64.5 | 200.55 | 115 | 106 | 115 | 65 | 41 | 38 | 22.5 | 70 |
| 45°            | 28.3         | 180.35 | 8.9  | 59.5 | 211.7  | 105 | 116 | 115 | 65 | 37 | 35 | 17.5 | 70 |
| 50°            | 31.1         | 176.35 | -1.1 | 48.5 | 215.55 | 105 | 125 | 115 | 56 | 37 | 35 | 17.5 | 70 |

\* PER INCLINAZIONI FUORI STANDARD RIVOLGERSI ALL'UFFICIO TECNICO NEWSTARK / \* FOR NON-STANDARD INCLINATIONS, PLEASE CONTACT NEWSTARK TECHNICAL OFFICE.  
 / \* FÜR NICHT STANDARDMÄSSIGE NEIGUNGEN WENDEN SIE SICH BITTE AN DAS TECHNISCHE BÜRO VON NEWSTARK

018 (9003) SENSORE / SENSOR / SENSOR



**18** PATENT PENDING

# 0151.3011 - CAM SUPER-SMEG3011

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **3000 daN**

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **4250 daN**

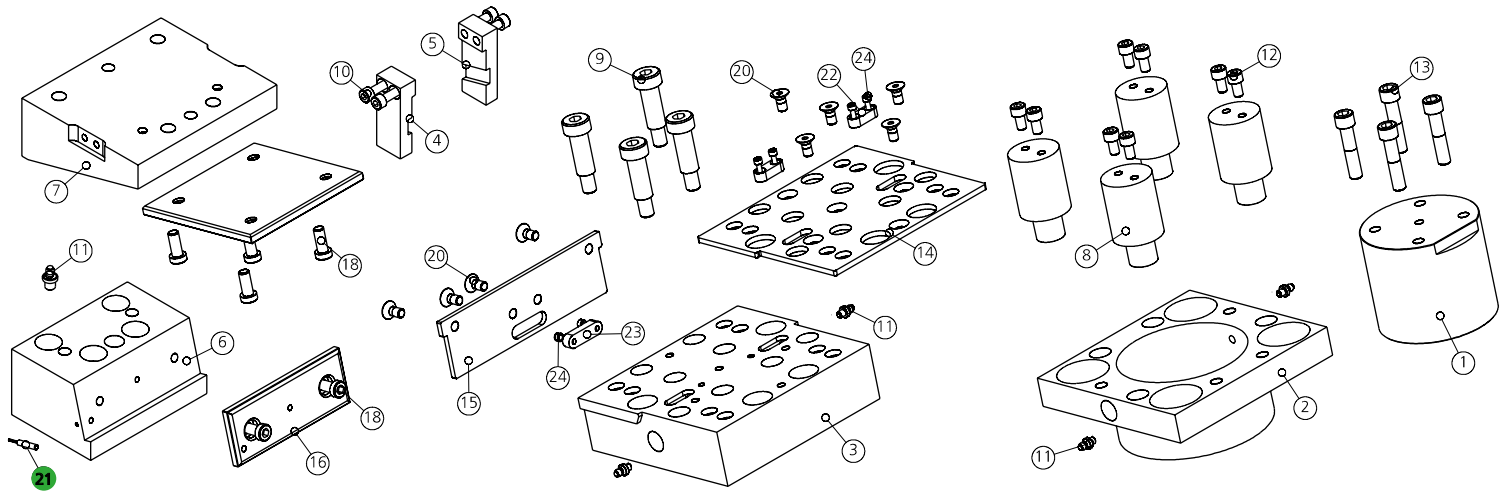
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **30000 daN**

CUTTING MAX FORCE

MAXIMALE SCHNITTKRAFT

EFFORT MAXI DÉCOUPE

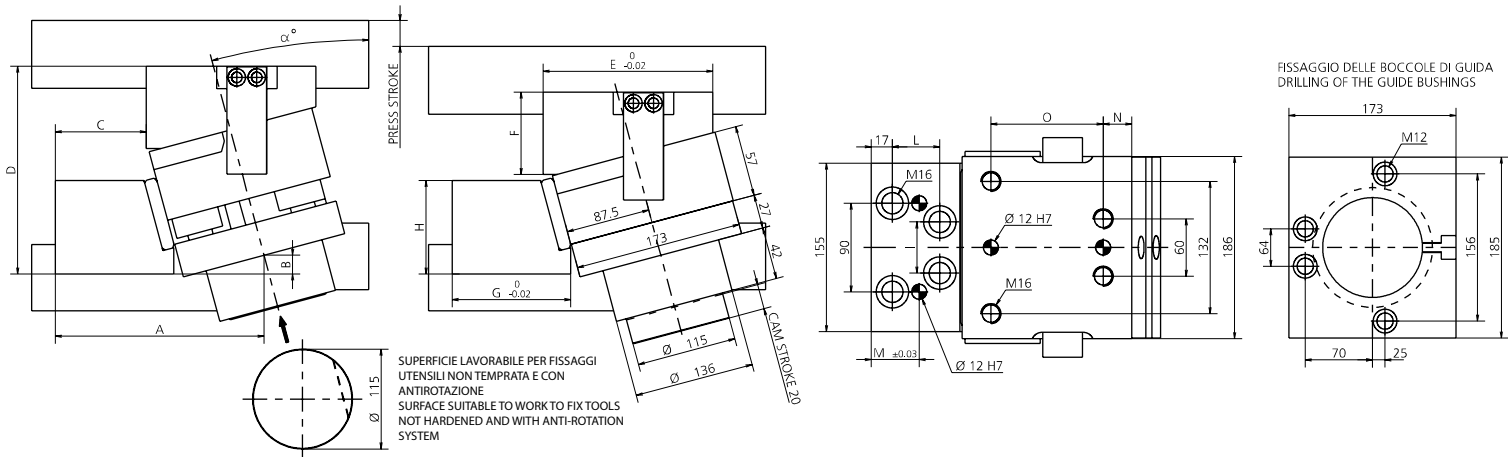


| POS. | CODE                          | DESCRIPTION   | Q.TY     |
|------|-------------------------------|---|----------|
| 001  | <b>8018.1000.0000.A10.001</b> | PERNO CENTRALE / CENTRAL PIN / HAUPTSTIFT                         | 1        |
| 002  | <b>8013.0690.1360.A10.001</b> | BOCCOLA DI GUIDA / GUIDE BUSHINGS / FÜHRUNGSBUCHSE                | 1        |
| 003  | <b>8014.0051.3011</b>         | PORTA PUNZONE / PUNCHES HOLDER / TRÄGERPLATTE                     | 1        |
| 004  | <b>8115.4851.3311.05.001</b>  | STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°  | 1*CHOOSE |
| 004  | <b>8115.4851.3311.10.001</b>  | STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10° | 1*CHOOSE |
| 004  | <b>8115.4851.3311.15.001</b>  | STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15° | 1*CHOOSE |
| 004  | <b>8115.4851.3311.20.001</b>  | STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20° | 1*CHOOSE |
| 004  | <b>8115.4851.3311.25.001</b>  | STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25° | 1*CHOOSE |
| 004  | <b>8115.4851.3311.30.001</b>  | STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30° | 1*CHOOSE |
| 004  | <b>8115.4851.3311.35.001</b>  | STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35° | 1*CHOOSE |
| 004  | <b>8115.4851.3311.40.001</b>  | STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40° | 1*CHOOSE |
| 004  | <b>8115.4851.3311.45.001</b>  | STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45° | 1*CHOOSE |
| 004  | <b>8115.4851.3311.50.001</b>  | STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50° | 1*CHOOSE |
| 005  | <b>8115.4851.3311.05.002</b>  | STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°  | 1*CHOOSE |
| 005  | <b>8115.4851.3311.10.002</b>  | STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10° | 1*CHOOSE |
| 005  | <b>8115.4851.3311.15.002</b>  | STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15° | 1*CHOOSE |
| 005  | <b>8115.4851.3311.20.002</b>  | STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20° | 1*CHOOSE |
| 005  | <b>8115.4851.3311.25.002</b>  | STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25° | 1*CHOOSE |
| 005  | <b>8115.4851.3311.30.002</b>  | STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30° | 1*CHOOSE |
| 005  | <b>8115.4851.3311.35.002</b>  | STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35° | 1*CHOOSE |
| 005  | <b>8115.4851.3311.40.002</b>  | STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40° | 1*CHOOSE |
| 005  | <b>8115.4851.3311.45.002</b>  | STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45° | 1*CHOOSE |
| 005  | <b>8115.4851.3311.50.002</b>  | STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50° | 1*CHOOSE |
| 006  | <b>8117.4851.3311.05.001</b>  | GUIDA / GUIDE / FÜHRUNG 5°  | 1*CHOOSE |
| 006  | <b>8117.4851.3311.10.001</b>  | GUIDA / GUIDE / FÜHRUNG 10°                                       | 1*CHOOSE |
| 006  | <b>8117.4851.3311.15.001</b>  | GUIDA / GUIDE / FÜHRUNG 15°                                       | 1*CHOOSE |

| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 006  | <b>8117.4851.3311.20.001</b>  | GUIDA / GUIDE / FÜHRUNG 20°                                    | 1*CHOOSE |
| 006  | <b>8117.4851.3311.25.001</b>  | GUIDA / GUIDE / FÜHRUNG 25°                                    | 1*CHOOSE |
| 006  | <b>8117.4851.3311.30.001</b>  | GUIDA / GUIDE / FÜHRUNG 30°                                    | 1*CHOOSE |
| 006  | <b>8117.4851.3311.35.001</b>  | GUIDA / GUIDE / FÜHRUNG 35°                                    | 1*CHOOSE |
| 006  | <b>8117.4851.3311.40.001</b>  | GUIDA / GUIDE / FÜHRUNG 40°                                    | 1*CHOOSE |
| 006  | <b>8117.4851.3311.45.001</b>  | GUIDA / GUIDE / FÜHRUNG 45°                                    | 1*CHOOSE |
| 006  | <b>8117.4851.3311.50.001</b>  | GUIDA / GUIDE / FÜHRUNG 50°                                    | 1*CHOOSE |
| 007  | <b>8116.4851.3311.05.001</b>  | INCUDINE / ANVIL / TREIBER 5°                                  | 1*CHOOSE |
| 007  | <b>8116.4851.3311.10.001</b>  | INCUDINE / ANVIL / TREIBER 10°                                 | 1*CHOOSE |
| 007  | <b>8116.4851.3311.15.001</b>  | INCUDINE / ANVIL / TREIBER 15°                                 | 1*CHOOSE |
| 007  | <b>8116.4851.3311.20.001</b>  | INCUDINE / ANVIL / TREIBER 20°                                 | 1*CHOOSE |
| 007  | <b>8116.4851.3311.25.001</b>  | INCUDINE / ANVIL / TREIBER 25°                                 | 1*CHOOSE |
| 007  | <b>8116.4851.3311.30.001</b>  | INCUDINE / ANVIL / TREIBER 30°                                 | 1*CHOOSE |
| 007  | <b>8116.4851.3311.35.001</b>  | INCUDINE / ANVIL / TREIBER 35°                                 | 1*CHOOSE |
| 007  | <b>8116.4851.3311.40.001</b>  | INCUDINE / ANVIL / TREIBER 40°                                 | 1*CHOOSE |
| 007  | <b>8116.4851.3311.45.001</b>  | INCUDINE / ANVIL / TREIBER 45°                                 | 1*CHOOSE |
| 007  | <b>8116.4851.3311.50.001</b>  | INCUDINE / ANVIL / TREIBER 50°                                 | 1*CHOOSE |
| 008  | <b>9000.0025.0045.001</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 4        |
| 009  | <b>9008.1216.040</b>          | VITE A COLLETTA / SHOULDER SCREW / ANSATZSCHRAUBE              | 4        |
| 010  | <b>9007.08.030.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X30                                  | 4        |
| 011  | <b>9006.002</b>               | INGRASSATORE / NIPPLES / SCHMIERUNG                            | 5        |
| 012  | <b>9007.08.010.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X10                                  | 8        |
| 013  | <b>9007.12.055.129.1.4762</b> | VITE / SCREW / SCHRAUBE M12X55                                 | 4        |
| 014  | <b>8030.1930.1690.048.001</b> | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 015  | <b>8030.1930.0560.048.001</b> | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 016  | <b>8012.1500.0580.100.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE              | 1        |
| 017  | <b>9012.1500.1500.100.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE              | 1        |
| 018  | <b>9007.10.020.129.1.9327</b> | VITE / SCREW / SCHRAUBE M10X20                                 | 6        |
| 020  | <b>9007.08.016.129.1.5933</b> | VITE / SCREW / SCHRAUBE M8X16                                  | 9        |
| 021  | <b>9003.0001</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 022  | <b>8087.0300.0120.080.001</b> | CHIAVETTA / KEY / SCHLÜSSEL                                    | 2        |
| 023  | <b>8087.0400.0120.080.001</b> | CHIAVETTA / KEY / SCHLÜSSEL                                    | 1        |
| 024  | <b>9007.04.010.129.1.4762</b> | VITE / SCREW / SCHRAUBE M4X10                                  | 6        |



FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **3000 daN** SFORZO MAX TRANCIO **30000 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **4250 daN** CUTTING MAX FORCE  
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE



| $\alpha^\circ$ | PRESS STROKE | A      | B      | C    | D      | E   | F   | G   | H  | I  | L    | M    | N   |
|----------------|--------------|--------|--------|------|--------|-----|-----|-----|----|----|------|------|-----|
| 5°             | 20.1         | 187.35 | 77.85  | 95   | 142.05 | 165 | 46  | 96  | 76 | 56 | 43   | 27.5 | 110 |
| 10°            | 20.3         | 188.35 | 68.35  | 89.5 | 154.3  | 165 | 56  | 96  | 76 | 56 | 43   | 27.5 | 110 |
| 15°            | 20.7         | 199.35 | 59.35  | 99   | 167.65 | 155 | 67  | 106 | 76 | 56 | 43   | 22.5 | 110 |
| 20°            | 21.3         | 199.35 | 49.35  | 90   | 177.7  | 155 | 76  | 106 | 76 | 56 | 43   | 22.5 | 110 |
| 25°            | 22.05        | 198.35 | 39.35  | 81   | 187.9  | 155 | 86  | 106 | 75 | 56 | 38   | 22.5 | 110 |
| 30°            | 23.1         | 197.35 | 30.35  | 71   | 197.9  | 155 | 96  | 106 | 75 | 56 | 38   | 22.5 | 110 |
| 35°            | 24.4         | 194.85 | 19.35  | 66.5 | 206.55 | 145 | 106 | 106 | 72 | 56 | 33   | 17.5 | 110 |
| 40°            | 26.1         | 202.35 | 9.35   | 77.5 | 216.7  | 136 | 116 | 116 | 66 | 56 | 38   | 25   | 86  |
| 45°            | 28.3         | 188.35 | 0.35   | 63.5 | 229.9  | 126 | 126 | 106 | 66 | 40 | 21.5 | 20   | 86  |
| 50°            | 31.1         | 183.35 | -13.65 | 53.5 | 243.75 | 116 | 146 | 106 | 60 | 40 | 21.5 | 15   | 86  |

\* PER INCLINAZIONI FUORI STANDARD RIVOLGERSI ALL'UFFICIO TECNICONEWSTARK / \* FOR NON-STANDARD INCLINATIONS, PLEASE CONTACT NEWSTARK TECHNICAL OFFICE.  
 / \* FÜR NICHT STANDARDMÄSSIGE NEIGUNGEN WENDEN SIE SICH BITTE AN DAS TECHNISCHE BÜRO VON NEWSTARK

021 (9003) SENSORE / SENSOR / SENSOR



**21** PATENT PENDING

# 0151.4815 - CAM SUPER-SMEG4815

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **4800 daN**

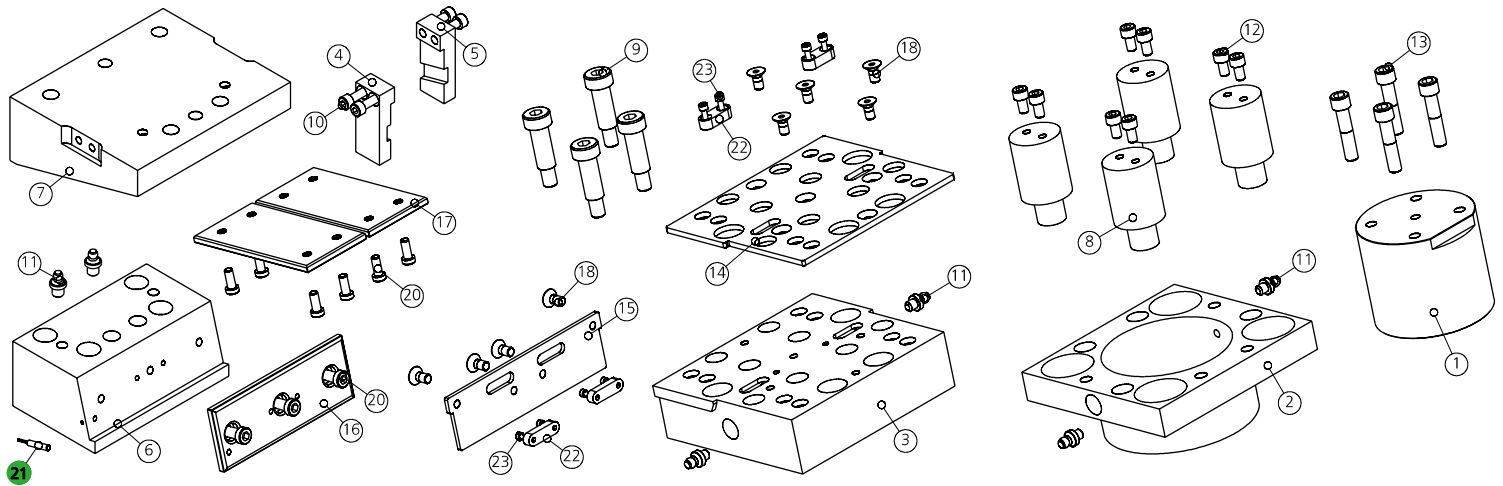
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **6600 daN**

ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **45000 daN**

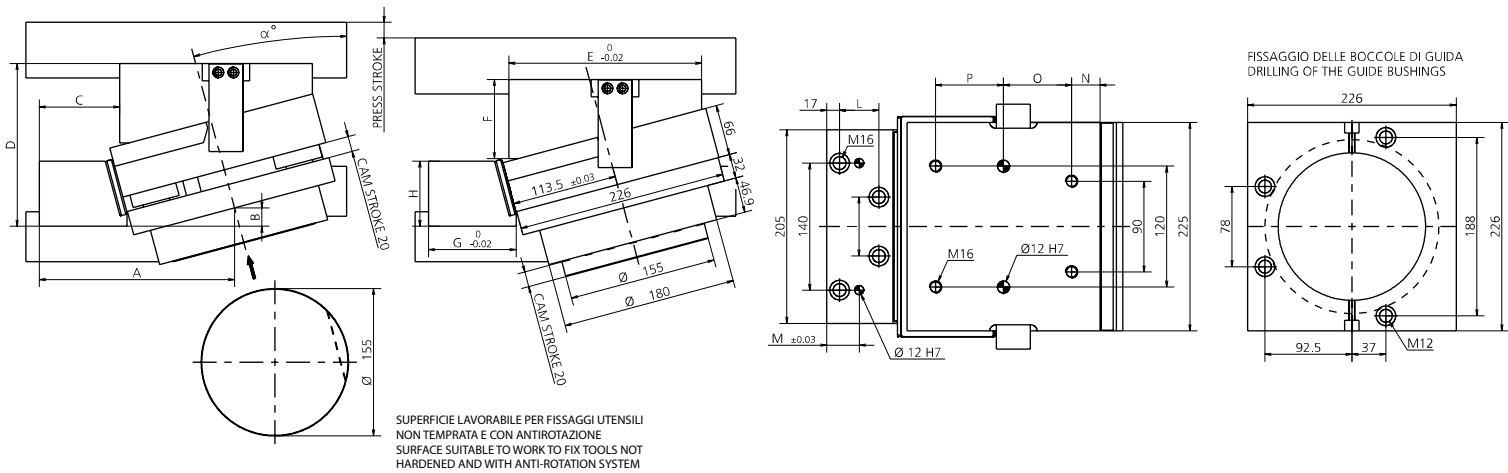
CUTTING MAX FORCE  
MAXIMALE SCHNITTKRAFT  
EFFORT MAXI DÉCOUPE



| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8018.1100.0000.A50.001</b> | PERNO CENTRALE / CENTRAL PIN / HAUPTSTIFT                              | 1        |
| 002  | <b>8013.0790.1800.A50.001</b> | BOCCOLA DI GUIDA / GUIDE BUSHINGS / FÜHRUNGSBUCHSE                     | 1        |
| 003  | <b>8014.0051.4815</b>         | PORTA PUNZONE / PUNCHES HOLDER / TRÄGERPLATTE                          | 1        |
| 004  | <b>8115.0051.0015.05.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°  | 1*CHOOSE |
| 004  | <b>8115.0051.0015.10.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10° | 1*CHOOSE |
| 004  | <b>8115.0051.0015.15.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15° | 1*CHOOSE |
| 004  | <b>8115.0051.0015.20.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20° | 1*CHOOSE |
| 004  | <b>8115.0051.0015.25.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25° | 1*CHOOSE |
| 004  | <b>8115.0051.0015.30.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30° | 1*CHOOSE |
| 004  | <b>8115.0051.0015.35.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35° | 1*CHOOSE |
| 004  | <b>8115.0051.0015.40.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40° | 1*CHOOSE |
| 004  | <b>8115.0051.0015.45.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45° | 1*CHOOSE |
| 004  | <b>8115.0051.0015.50.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50° | 1*CHOOSE |
| 005  | <b>8115.0051.0015.05.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°  | 1*CHOOSE |
| 005  | <b>8115.0051.0015.10.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10° | 1*CHOOSE |
| 005  | <b>8115.0051.0015.15.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15° | 1*CHOOSE |
| 005  | <b>8115.0051.0015.20.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20° | 1*CHOOSE |
| 005  | <b>8115.0051.0015.25.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25° | 1*CHOOSE |
| 005  | <b>8115.0051.0015.30.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30° | 1*CHOOSE |
| 005  | <b>8115.0051.0015.35.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35° | 1*CHOOSE |
| 005  | <b>8115.0051.0015.40.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40° | 1*CHOOSE |
| 005  | <b>8115.0051.0015.45.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45° | 1*CHOOSE |
| 005  | <b>8115.0051.0015.50.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50° | 1*CHOOSE |
| 006  | <b>8117.0051.0015.05.001</b>  | GUIDA / GUIDE / FÜHRUNG 5°   | 1*CHOOSE |
| 006  | <b>8117.0051.0015.10.001</b>  | GUIDA / GUIDE / FÜHRUNG 10°  | 1*CHOOSE |

| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 006  | <b>8117.0051.0015.15.001</b>  | GUIDA / GUIDE / FÜHRUNG 15°                                    | 1*CHOOSE |
| 006  | <b>8117.0051.0015.20.001</b>  | GUIDA / GUIDE / FÜHRUNG 20°                                    | 1*CHOOSE |
| 006  | <b>8117.0051.0015.25.001</b>  | GUIDA / GUIDE / FÜHRUNG 25°                                    | 1*CHOOSE |
| 006  | <b>8117.0051.0015.30.001</b>  | GUIDA / GUIDE / FÜHRUNG 30°                                    | 1*CHOOSE |
| 006  | <b>8117.0051.0015.35.001</b>  | GUIDA / GUIDE / FÜHRUNG 35°                                    | 1*CHOOSE |
| 006  | <b>8117.0051.0015.40.001</b>  | GUIDA / GUIDE / FÜHRUNG 40°                                    | 1*CHOOSE |
| 006  | <b>8117.0051.0015.45.001</b>  | GUIDA / GUIDE / FÜHRUNG 45°                                    | 1*CHOOSE |
| 006  | <b>8117.0051.0015.50.001</b>  | GUIDA / GUIDE / FÜHRUNG 50°                                    | 1*CHOOSE |
| 007  | <b>8116.0051.0015.05.001</b>  | INCUDINE / ANVIL / TREIBER 5°                                  | 1*CHOOSE |
| 007  | <b>8116.0051.0015.10.001</b>  | INCUDINE / ANVIL / TREIBER 10°                                 | 1*CHOOSE |
| 007  | <b>8116.0051.0015.15.001</b>  | INCUDINE / ANVIL / TREIBER 15°                                 | 1*CHOOSE |
| 007  | <b>8116.0051.0015.20.001</b>  | INCUDINE / ANVIL / TREIBER 20°                                 | 1*CHOOSE |
| 007  | <b>8116.0051.0015.25.001</b>  | INCUDINE / ANVIL / TREIBER 25°                                 | 1*CHOOSE |
| 007  | <b>8116.0051.0015.30.001</b>  | INCUDINE / ANVIL / TREIBER 30°                                 | 1*CHOOSE |
| 007  | <b>8116.0051.0015.35.001</b>  | INCUDINE / ANVIL / TREIBER 35°                                 | 1*CHOOSE |
| 007  | <b>8116.0051.0015.40.001</b>  | INCUDINE / ANVIL / TREIBER 40°                                 | 1*CHOOSE |
| 007  | <b>8116.0051.0015.45.001</b>  | INCUDINE / ANVIL / TREIBER 45°                                 | 1*CHOOSE |
| 007  | <b>8116.0051.0015.50.001</b>  | INCUDINE / ANVIL / TREIBER 50°                                 | 1*CHOOSE |
| 008  | <b>9000.0025.0050.001</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 4        |
| 009  | <b>9008.1216.050</b>          | VITE A COLLETO / SHOULDER SCREW / ANSATZSCHRAUBE               | 4        |
| 010  | <b>9007.08.030.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X30                                  | 4        |
| 011  | <b>9006.002</b>               | INGRASSATORE / NIPPLES / SCHMIERUNG                            | 6        |
| 012  | <b>9007.08.016.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X16                                  | 8        |
| 013  | <b>9007.16.070.129.1.4762</b> | VITE / SCREW / SCHRAUBE M16X70                                 | 4        |
| 014  | <b>8030.2320.2210.048.001</b> | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 015  | <b>8030.2320.0650.048.001</b> | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 016  | <b>8012.2000.0750.100.002</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE              | 1        |
| 017  | <b>9012.2000.1000.100.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE              | 2        |
| 018  | <b>9007.08.016.129.1.5933</b> | VITE / SCREW / SCHRAUBE M8X16                                  | 9        |
| 020  | <b>9007.10.020.129.1.9327</b> | VITE / SCREW / SCHRAUBE M10X20                                 | 11       |
| 021  | <b>9003.0001</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 022  | <b>8087.0400.0120.080.001</b> | CHIAVETTA / KEY / SCHLÜSSEL                                    | 4        |
| 023  | <b>9007.04.010.129.1.4762</b> | VITE / SCREW / SCHRAUBE M4X10                                  | 8        |

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **4800 daN** SFORZO MAX TRANCIO **45000 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **6600 daN** CUTTING MAX FORCE  
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE



| $\alpha^\circ$ | PRESS STROKE | A     | B     | C      | D      | E   | F   | G   | H  | I   | L  | M  | N    | O  | P  |
|----------------|--------------|-------|-------|--------|--------|-----|-----|-----|----|-----|----|----|------|----|----|
| 5°             | 20,1         | 222,6 | 4,05  | 109,75 | 170,4  | 216 | 56  | 106 | 96 | 110 | 52 | 43 | 38   | 70 | 70 |
| 10°            | 20,3         | 233,1 | 14,05 | 112,25 | 181,25 | 216 | 66  | 116 | 96 | 110 | 52 | 43 | 38   | 70 | 70 |
| 15°            | 20,7         | 244,1 | 18,05 | 115,75 | 192,65 | 206 | 85  | 126 | 86 | 110 | 52 | 43 | 33   | 70 | 70 |
| 20°            | 21,3         | 243,6 | 30,05 | 106,25 | 204,45 | 206 | 95  | 126 | 86 | 110 | 52 | 43 | 33   | 70 | 70 |
| 25°            | 22,05        | 241,1 | 43,05 | 96,75  | 218,2  | 200 | 106 | 126 | 86 | 110 | 52 | 43 | 30   | 70 | 70 |
| 30°            | 23,1         | 239,1 | 54,05 | 84,75  | 234,3  | 200 | 123 | 126 | 86 | 110 | 52 | 43 | 30   | 70 | 70 |
| 35°            | 24,4         | 235,1 | 67,05 | 79,75  | 247,9  | 185 | 136 | 126 | 86 | 110 | 42 | 43 | 22,5 | 70 | 70 |
| 40°            | 26,1         | 231,1 | 71,05 | 76,25  | 264,4  | 176 | 156 | 126 | 76 | 90  | 38 | 43 | 28   | 60 | 60 |
| 45°            | 28,3         | 226,1 | 85,05 | 66,75  | 277,5  | 166 | 166 | 126 | 76 | 90  | 37 | 43 | 23   | 60 | 60 |
| 50°            | 31,1         | 220,1 | 91,05 | 58,75  | 283,35 | 156 | 176 | 126 | 70 | 90  | 26 | 43 | 18   | 60 | 60 |

\* PER INCLINAZIONI FUORI STANDARD RIVOLGERSI ALL'UFFICIO TECNICONESTARK / \* FOR NON-STANDARD INCLINATIONS, PLEASE CONTACT NEWSTARK TECHNICAL OFFICE.  
 / \* FÜR NICHT STANDARDMÄSSIGE NEIGUNGEN WENDEN SIE SICH BITTE AN DAS TECHNISCHE BÜRO VON NEWSTARK

021 (9003) SENSORE / SENSOR / SENSOR



**21 PATENT PENDING**

# 0151.6019 - CAM SUPER-SMEG6019

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **6000 daN**

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **9400 daN**

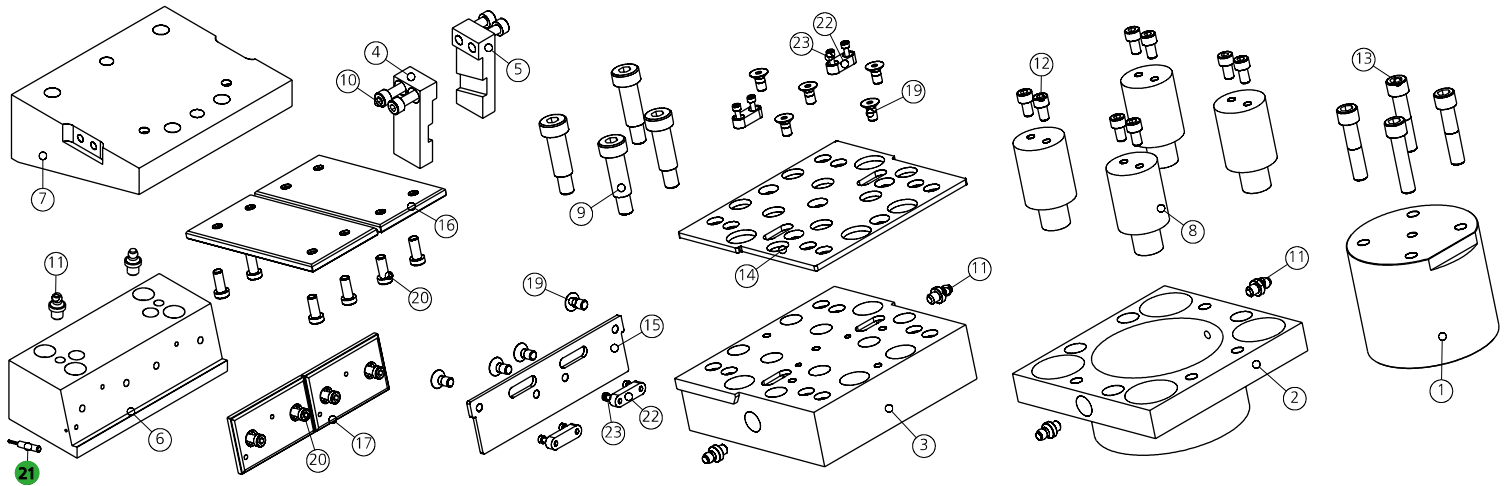
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **60000 daN**

CUTTING MAX FORCE

MAXIMALE SCHNITTKRAFT

EFFORT MAXI DÉCOUPE



| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8018.1100.0000.A90.001</b> | PERNO CENTRALE / CENTRAL PIN / HAUPTSTIFT                              | 1        |
| 002  | <b>8013.0790.2300.A90.001</b> | BOCCOLA DI GUIDA / GUIDE BUSHINGS / FÜHRUNGSBUCHSE                     | 1        |
| 003  | <b>8014.0051.6019</b>         | PORTA PUNZONE / PUNCHES HOLDER / TRÄGERPLATTE                          | 1        |
| 004  | <b>8115.0051.0019.05.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°  | 1*CHOOSE |
| 004  | <b>8115.0051.0019.10.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10° | 1*CHOOSE |
| 004  | <b>8115.0051.0019.15.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15° | 1*CHOOSE |
| 004  | <b>8115.0051.0019.20.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20° | 1*CHOOSE |
| 004  | <b>8115.0051.0019.25.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25° | 1*CHOOSE |
| 004  | <b>8115.0051.0019.30.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30° | 1*CHOOSE |
| 004  | <b>8115.0051.0019.35.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35° | 1*CHOOSE |
| 004  | <b>8115.0051.0019.40.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40° | 1*CHOOSE |
| 004  | <b>8115.0051.0019.45.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45° | 1*CHOOSE |
| 004  | <b>8115.0051.0019.50.001</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50° | 1*CHOOSE |
| 005  | <b>8115.0051.0019.05.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°  | 1*CHOOSE |
| 005  | <b>8115.0051.0019.10.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10° | 1*CHOOSE |
| 005  | <b>8115.0051.0019.15.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15° | 1*CHOOSE |
| 005  | <b>8115.0051.0019.20.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20° | 1*CHOOSE |
| 005  | <b>8115.0051.0019.25.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25° | 1*CHOOSE |
| 005  | <b>8115.0051.0019.30.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30° | 1*CHOOSE |
| 005  | <b>8115.0051.0019.35.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35° | 1*CHOOSE |
| 005  | <b>8115.0051.0019.40.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40° | 1*CHOOSE |
| 005  | <b>8115.0051.0019.45.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45° | 1*CHOOSE |
| 005  | <b>8115.0051.0019.50.002</b>  | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50° | 1*CHOOSE |
| 006  | <b>8117.0051.0019.05.001</b>  | GUIDA / GUIDE / FÜHRUNG 5°   | 1*CHOOSE |
| 006  | <b>8117.0051.0019.10.001</b>  | GUIDA / GUIDE / FÜHRUNG 10°  | 1*CHOOSE |

| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 006  | <b>8117.0051.0019.15.001</b>  | GUIDA / GUIDE / FÜHRUNG 15°                                    | 1*CHOOSE |
| 006  | <b>8117.0051.0019.20.001</b>  | GUIDA / GUIDE / FÜHRUNG 20°                                    | 1*CHOOSE |
| 006  | <b>8117.0051.0019.25.001</b>  | GUIDA / GUIDE / FÜHRUNG 25°                                    | 1*CHOOSE |
| 006  | <b>8117.0051.0019.30.001</b>  | GUIDA / GUIDE / FÜHRUNG 30°                                    | 1*CHOOSE |
| 006  | <b>8117.0051.0019.35.001</b>  | GUIDA / GUIDE / FÜHRUNG 35°                                    | 1*CHOOSE |
| 006  | <b>8117.0051.0019.40.001</b>  | GUIDA / GUIDE / FÜHRUNG 40°                                    | 1*CHOOSE |
| 006  | <b>8117.0051.0019.45.001</b>  | GUIDA / GUIDE / FÜHRUNG 45°                                    | 1*CHOOSE |
| 006  | <b>8117.0051.0019.50.001</b>  | GUIDA / GUIDE / FÜHRUNG 50°                                    | 1*CHOOSE |
| 007  | <b>8116.0051.0019.05.001</b>  | INCUDINE / ANVIL / TREIBER 5°                                  | 1*CHOOSE |
| 007  | <b>8116.0051.0019.10.001</b>  | INCUDINE / ANVIL / TREIBER 10°                                 | 1*CHOOSE |
| 007  | <b>8116.0051.0019.15.001</b>  | INCUDINE / ANVIL / TREIBER 15°                                 | 1*CHOOSE |
| 007  | <b>8116.0051.0019.20.001</b>  | INCUDINE / ANVIL / TREIBER 20°                                 | 1*CHOOSE |
| 007  | <b>8116.0051.0019.25.001</b>  | INCUDINE / ANVIL / TREIBER 25°                                 | 1*CHOOSE |
| 007  | <b>8116.0051.0019.30.001</b>  | INCUDINE / ANVIL / TREIBER 30°                                 | 1*CHOOSE |
| 007  | <b>8116.0051.0019.35.001</b>  | INCUDINE / ANVIL / TREIBER 35°                                 | 1*CHOOSE |
| 007  | <b>8116.0051.0019.40.001</b>  | INCUDINE / ANVIL / TREIBER 40°                                 | 1*CHOOSE |
| 007  | <b>8116.0051.0019.45.001</b>  | INCUDINE / ANVIL / TREIBER 45°                                 | 1*CHOOSE |
| 007  | <b>8116.0051.0019.50.001</b>  | INCUDINE / ANVIL / TREIBER 50°                                 | 1*CHOOSE |
| 008  | <b>9000.0025.0063.001</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 4        |
| 009  | <b>9008.1620.050</b>          | VITE A COLLETTA / SHOULDER SCREW / ANSATZSCHRAUBE              | 4        |
| 010  | <b>9007.08.040.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X40                                  | 4        |
| 011  | <b>9006.002</b>               | INGRASSATORE / NIPPLES / SCHMIERUNG                            | 6        |
| 012  | <b>9007.08.010.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X10                                  | 8        |
| 013  | <b>9007.16.070.129.1.4762</b> | VITE / SCREW / SCHRAUBE M16X70                                 | 4        |
| 014  | <b>8030.2910.2720.048.001</b> | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 015  | <b>8030.2910.0660.048.001</b> | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 016  | <b>9012.2500.1000.100.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE              | 2        |
| 017  | <b>8012.1250.0750.100.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE              | 2        |
| 019  | <b>9007.08.016.129.1.5933</b> | VITE / SCREW / SCHRAUBE M8X16                                  | 9        |
| 020  | <b>9007.10.020.129.1.9327</b> | VITE / SCREW / SCHRAUBE M10X20                                 | 12       |
| 021  | <b>9003.0001</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 022  | <b>8087.0450.0120.080.001</b> | CHIAVETTA / KEY / SCHLÜSSEL                                    | 4        |
| 023  | <b>9007.04.010.129.1.4762</b> | VITE / SCREW / SCHRAUBE M4X10                                  | 8        |





## CAM M/ML

- IT** Camma meccanica contenente un punzone ricavato da uno standard ISO 8020 di potenza fino a 5'000 daN con ritorno mediante molla in acciaio. M ha corsa normale, ML ha corsa lunga. L'estrazione dalla lamiera è fatta tramite gomma PU. Può essere montata in posizione orizzontale o inclinata (previo confronto con l'ufficio tecnico Newstark). Possibili applicazioni: adatta a lavori generalmente di trancitura e foratura.
- EN** Mechanical cam which contains a punch made from an ISO 8020 standard power supply up to 5'000 daN with steel spring return. M normal stroke, ML long stroke. The extraction from metal sheet is made by gummy-PU. Can be fitted horizontally or inclined (after comparison with Newstark's technical department). Means of application: generally suitable for cutting and drilling work.
- DE** Mechanische Stanzeinheit, die einen Schneidstempel nach ISO 8020 enthält, mit einer Kraft bis 5'000 daN mit einem Rücklauf, der durch eine Stahlfeder sichergestellt wird. Modell M hat normalen Hub, Modell ML hat einen längeren Hub. Das Blech wird durch eine PU-Feder abgestreift. Die Einheiten können (nach Abstimmung mit dem technische Büro von Newstark) horizontal oder geneigt montiert werden. Mögliche Anwendungen: Prägen und Lochen.
- FR** Came mécanique contenant un poinçon réalisé à partir d'un standard ISO 8020 d'une puissance allant jusqu'à 5'000 daN avec retour par ressort en acier. M a une course normale, ML a une course longue. L'extraction de la tôle est faite par un caoutchouc PU. Elle peut être montée en position horizontale ou inclinée (après discussion avec le bureau technique Newstark). Applications possibles: convient pour les travaux de découpage et de perçage.



### PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE



M

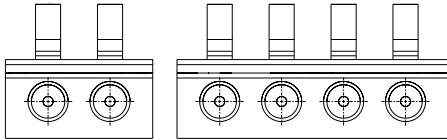


ML

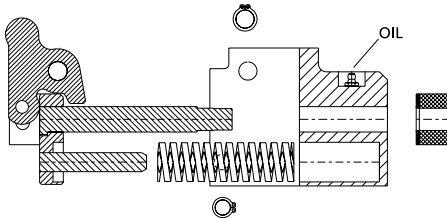


## CAM M/ML

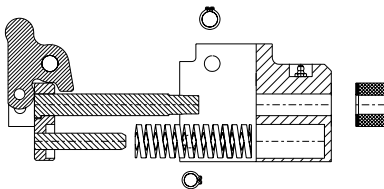
ESEMPI DI APPLICAZIONI SPECIALI / EXAMPLES OF SPECIAL APPLICATIONS / BEISPIELE FÜR SPEZIELLE ANWENDUNGEN  
EXEMPLE D'APPLICATIONS SPÉCIALES



DISEGNO DEL MONTAGGIO / MOUNTING DESIGN / MONTAGEZEICHNUNG / DESSIN DU MONTAGE



SMONTAGGIO PRODOTTO M/ML / PRODUCT DISASSEMBLY M/ML / DEMONTAGE DES PRODUKTES M/ML / DÉMONTAGE PRODUIT M/ML



- IT**
1. Togliere porta punzone e punzone rimuovendo i seeger come indicato.
  2. Eseguire le verifiche.
  3. Rimontare con cura, lubrificando con grasso bisolfuro di Molibdeno (MoS<sub>2</sub>). L'uso di questo grasso viene consigliato da Newstark.
  4. Assicurare il corretto riposizionamento dei singoli componenti.
- Lubrificare durante l'uso con grasso bisolfuro di Molibdeno (MoS<sub>2</sub>).

- DE**
1. Seegering und Bolzen entfernen um die Stempelhalterplatte und den Stempel herauszuziehen.
  2. Komponenten prüfen.
  3. Montage in umgekehrter Reihenfolge unter Verwendung von Molybdändisulfidfett (MoS<sub>2</sub>) nachschmieren. Die Verwendung dieses Fett wird durch Newstark empfohlen.
  4. Auf richtigen Sitz der einzelnen Komponenten achten. Während des Gebrauches, mit Molybdändisulfidfett (MoS<sub>2</sub>) nachschmieren.

- EN**
1. Take off the punch holder and the punch by removing the seegers as shown.
  2. Check the components.
  3. Reassemble carefully using grease with disulfide molybdeno (MoS<sub>2</sub>). The use of this grease is recommended by Newstark.
  4. Ensure the correct positioning of the individual components. During use lubricate with grease with disulfide molybdeno (MoS<sub>2</sub>).

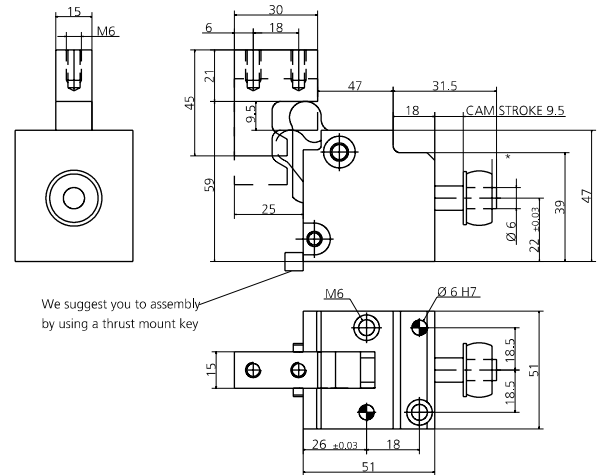
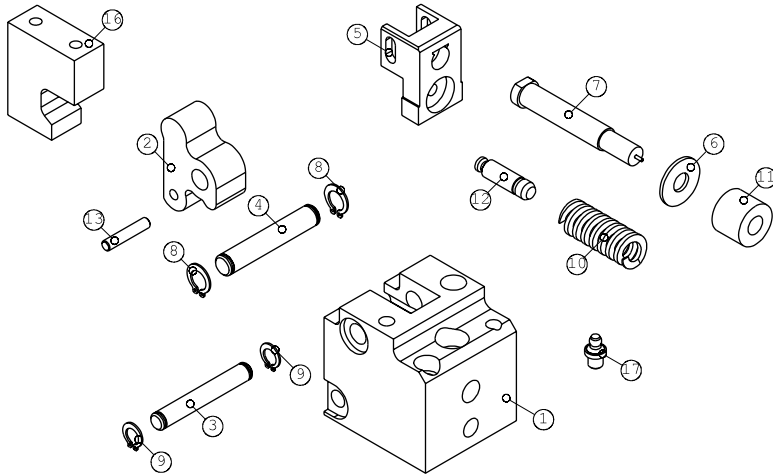
- FR**
1. Retirer le porte-poinçon et le poinçon en retirant le circlip comme indiqué.
  2. Effectuer les contrôles.
  3. Remonter soigneusement, en lubrifiant avec de la graisse au bisulfure de molybdène (MoS<sub>2</sub>). Newstark recommande l'utilisation de cette graisse.
  4. S'assurer que les différents éléments sont correctement repositionnés. Lubrifier avec de la graisse au bisulfure de molybdène (MoS<sub>2</sub>).

# 0140.0170 - CAM M170

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **25 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **170 daN**  
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION

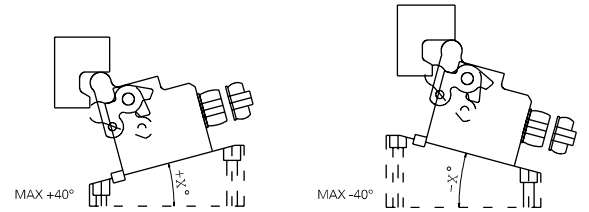
SFORZO MAX TRANCIO **1000 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE

\* MAX 30% LUNGHEZZA LIBERA

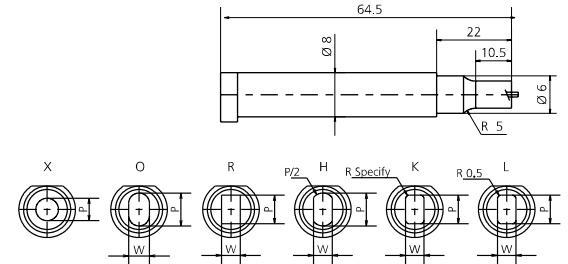


| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0040.0170</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE  | 1        |
| 002  | <b>8001.4041.0170.000</b>     | LEVA / LEVER / NOCKE 0   | 1        |
| 002  | <b>8001.4041.0170.620</b>     | LEVA / LEVER / NOCKE +0.01 +20   | 1*OPTION |
| 002  | <b>8001.4041.0170.640</b>     | LEVA / LEVER / NOCKE +20.01 +40  | 1*OPTION |
| 002  | <b>8001.4041.0170.720</b>     | LEVA / LEVER / NOCKE -0.01 -20   | 1*OPTION |
| 002  | <b>8001.4041.0170.740</b>     | LEVA / LEVER / NOCKE -20.01 -40  | 1*OPTION |
| 003  | <b>8005.0510.0474.060.001</b> | PERNO / PIN / STIFT  | 1        |
| 004  | <b>8005.0510.0476.080.001</b> | PERNO / PIN / STIFT  | 1        |
| 005  | <b>8014.4041.0170</b>         | PORTA PUNZONE / GATE PUNCH / STEMPELHALTEPLATTE  | 1        |
| 006  | <b>8006.0020.0240.062.001</b> | RONDELLA / WASHER / UNTERLEGSCHIEBE  | 1        |
| 007  | <b>09MJBM2.080.064</b>        | MJB_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 8 64.5 | 1        |
| 007  | <b>09MJXM2.080.064</b>        | MIX_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 8 64.5 | 1*OPTION |
| 007  | <b>09MJOM2.080.064</b>        | MJO_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 8 64.5 | 1*OPTION |
| 007  | <b>09MJJM2.080.064</b>        | MJJ_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 8 64.5 | 1*OPTION |
| 007  | <b>09MJHM2.080.064</b>        | MJH_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 8 64.5 | 1*OPTION |
| 007  | <b>09MJKM2.080.064</b>        | MJK_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 8 64.5 | 1*OPTION |
| 007  | <b>09MJNM2.080.064</b>        | MJN_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 8 64.5 | 1*OPTION |
| 007  | <b>09MJLM2.080.064</b>        | MJL_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 8 64.5 | 1*OPTION |
| 007  | <b>09MJRM2.080.064</b>        | MJR_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 8 64.5 | 1*OPTION |
| 007  | <b>09MJVM2.080.064</b>        | MJV_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 8 64.5 | 1*OPTION |
| 007  | <b>09MJYM2.080.064</b>        | MJY_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 8 64.5 | 1*OPTION |
| 007  | <b>09MJZM2.080.064</b>        | MJZ_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 8 64.5 | 1*OPTION |
| 008  | <b>9004.1080.001</b>          | SEEGER / SEEGER / SEEGERRING   | 2        |
| 009  | <b>9004.1060.001</b>          | SEEGER / SEEGER / SEEGERRING   | 2        |
| 010  | <b>9009.2000.0320.120</b>     | MOLLA / SPRING / FEDER   | 1        |
| 011  | <b>8060.0620.020.E090.001</b> | MOLLA IN GOMMA / RUBBER SPRING / ABSTREIFFEDER   | 1        |
| 012  | <b>8005.0265.0150.060.001</b> | PERNO / PIN / STIFT  | 1        |
| 013  | <b>8005.0230.0230.040.001</b> | PERNO / PIN / STIFT  | 1        |
| 016  | <b>8003.0450.0300.150.001</b> | INCLUDINE / ANVIL / TREIBER  | 1*OPTION |
| 017  | <b>9006.001</b>               | INGRASSATORE / NIPPLES / SCHMIERUNG  | 1        |

002 (8001) LEVA / LEVER / NOCKE



007 (09M) PUNZONE TC / HEADED PUNCH / SCHNEIDSTEMPEL ISO8020



MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

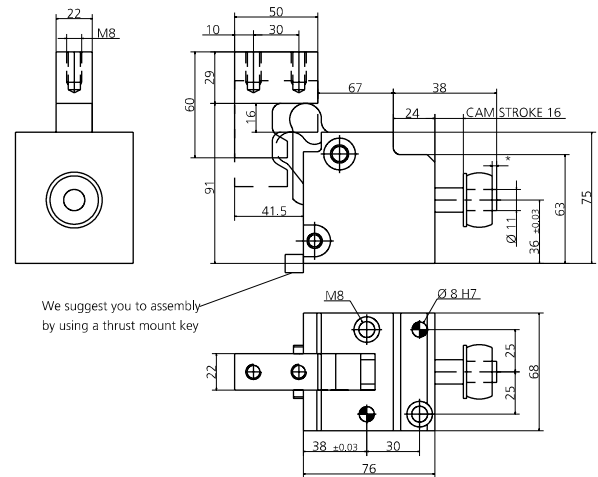
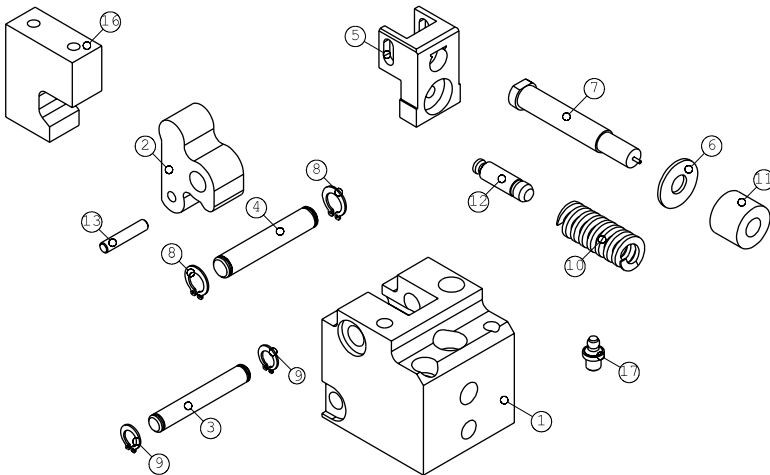
MODEL **0140.0170** INCLINATION **+10°** OPTION CODE **8001.4041.0170.620**

# 0140.0210 - CAM M210

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **40 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **210 daN**  
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

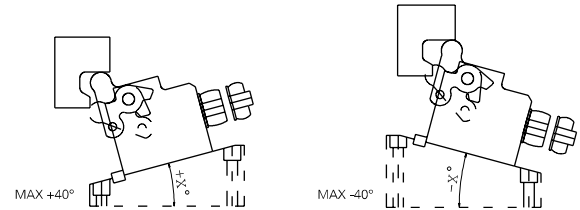
SFORZO MAX TRANCIO **3000 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE

\* MAX 30% LUNGHEZZA LIBERA

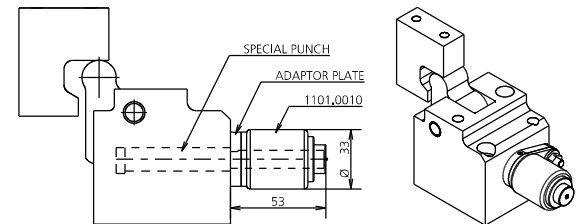


| POS. | CODE                          | DESCRIPTION   | Q.TY     |
|------|-------------------------------|---|----------|
| 001  | <b>8000.0040.0210</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE   | 1        |
| 002  | <b>8001.4041.0210.000</b>     | LEVA / LEVER / NOCKE 0  | 1        |
| 002  | <b>8001.4041.0210.620</b>     | LEVA / LEVER / NOCKE +0.01 +20  | 1*OPTION |
| 002  | <b>8001.4041.0210.640</b>     | LEVA / LEVER / NOCKE +20.01 +40   | 1*OPTION |
| 002  | <b>8001.4041.0210.720</b>     | LEVA / LEVER / NOCKE -0.01 -20  | 1*OPTION |
| 002  | <b>8001.4041.0210.730</b>     | LEVA / LEVER / NOCKE -20.01 -30   | 1*OPTION |
| 002  | <b>8001.4041.0210.740</b>     | LEVA / LEVER / NOCKE -30.01 -40   | 1*OPTION |
| 003  | <b>8005.0680.0640.100.001</b> | PERNO / PIN / STIFT   | 1        |
| 004  | <b>8005.0680.0640.120.001</b> | PERNO / PIN / STIFT   | 1        |
| 005  | <b>8014.4041.0210</b>         | PORTA PUNZONE / GATE PUNCH / STEMPHALTEPLATTE   | 1        |
| 006  | <b>8006.0020.0280.111.001</b> | RONDELLA / WASHER / UNTERLEGSCHIBE  | 1        |
| 007  | <b>09MJBM2.130.085</b>        | MJB_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 13 85.5 | 1        |
| 007  | <b>09MJXM2.130.085</b>        | MJX_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 13 85.5 | 1*OPTION |
| 007  | <b>09MJOM2.130.085</b>        | MJO_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 13 85.5 | 1*OPTION |
| 007  | <b>09MJJM2.130.085</b>        | MJJ_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 13 85.5 | 1*OPTION |
| 007  | <b>09MJHM2.130.085</b>        | MJH_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 13 85.5 | 1*OPTION |
| 007  | <b>09MJKM2.130.085</b>        | MJK_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 13 85.5 | 1*OPTION |
| 007  | <b>09MJNM2.130.085</b>        | MJN_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 13 85.5 | 1*OPTION |
| 007  | <b>09MJLM2.130.085</b>        | MJL_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 13 85.5 | 1*OPTION |
| 007  | <b>09MJRM2.130.085</b>        | MJR_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 13 85.5 | 1*OPTION |
| 007  | <b>09MJVM2.130.085</b>        | MJV_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 13 85.5 | 1*OPTION |
| 007  | <b>09MJYM2.130.085</b>        | MJY_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 13 85.5 | 1*OPTION |
| 007  | <b>09MJZM2.130.085</b>        | MJZ_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 13 85.5 | 1*OPTION |
| 008  | <b>9004.1120.001</b>          | SEGER / SEGER / SEEGERRING  | 2        |
| 009  | <b>9004.1100.001</b>          | SEGER / SEGER / SEEGERRING  | 2        |
| 010  | <b>9009.2000.0510.200</b>     | MOLLA / SPRING / FEDER  | 1        |
| 011  | <b>9010.1125.020.E090.001</b> | MOLLA IN GOMMA / RUBBER SPRING / ABSTREIFFEDER  | 1        |
| 012  | <b>8005.0385.0250.100.001</b> | PERNO / PIN / STIFT   | 1        |
| 013  | <b>8005.0310.0310.060.001</b> | PERNO / PIN / STIFT   | 1        |
| 016  | <b>8003.0600.0500.220.001</b> | INCUDINE / ANVIL / TREIBER  | 1*OPTION |
| 017  | <b>9006.002</b>               | INGRASSATORE / NIPPLE / SCHMIERUNG  | 1        |

002 (8001) LEVA / LEVER / NOCKE

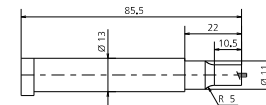


8124.0140.0210 KIT ADATTAMENTO STARK STRIPPER / STARK-STRIP ADAPTION KIT / STARK-STRIP ADAPTIONSSATZ

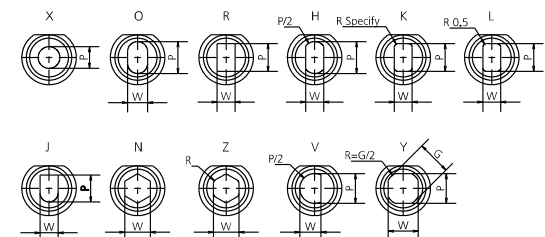
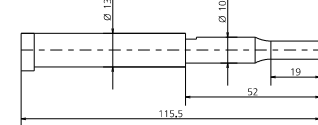


Il kit comprende il punzone, la piastrina di adattamento e le viti di fissaggio.  
 Lo stark-stripper va ordinato a parte (vedi la sezione del catalogo dedicata)  
 The kit includes the punch, the adapter plate and the fixing screws.  
 The stark-stripper must be ordered separately (see the dedicated catalog section)  
 Das Kit enthält den Stempel, die Adapterplatte und die Befestigungsschrauben.  
 Der Stark-muss separat bestellt werden (siehe den entsprechenden Abschnitt des Katalogs)

007 (09M) PUNZONE TC / HEADED PUNCH / SCHNEIDSTEMPEL ISO8020



007 (09S) PUNZONE SPECIALE PER KIT 8124 / SPECIAL PUNCH FOR KIT 8124 / SPEZIALSTEMPEL FÜR BAUSATZ 8124



MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

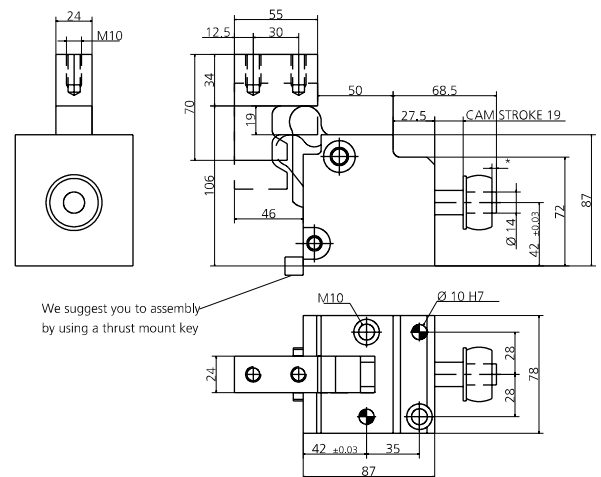
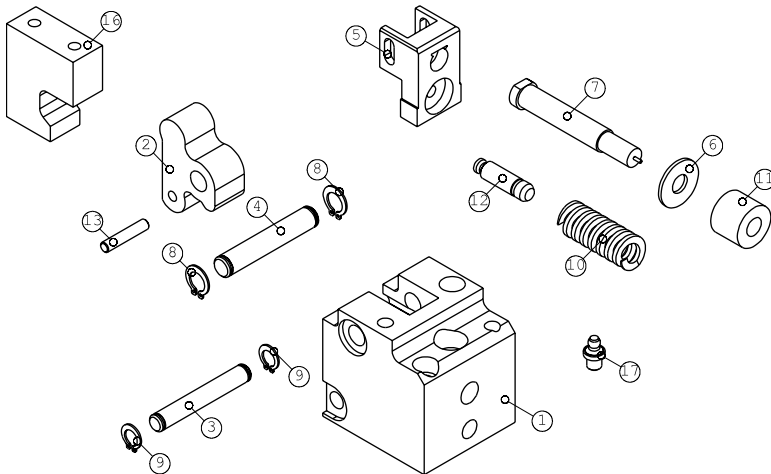
MODEL **0140.0210** INCLINAZIONE **+10°** OPTION CODE **8001.4041.0210.620**

# 0140.0320 - CAM M320

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **70 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **320 daN**  
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION

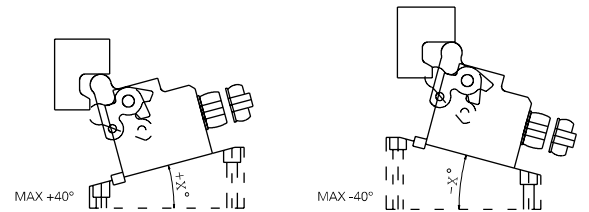
SFORZO MAX TRANCIO **5000 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE

\* MAX 30% LUNGHEZZA LIBERA

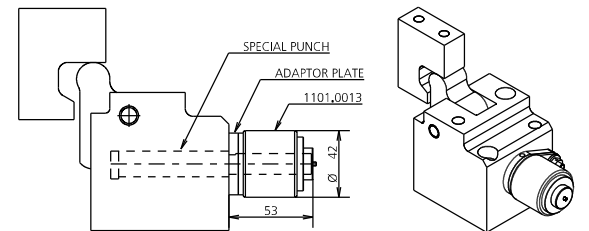


| POS. | CODE                          | DESCRIPTION   | Q.TY     |
|------|-------------------------------|---|----------|
| 001  | <b>8000.0040.0320</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE   | 1        |
| 002  | <b>8001.4041.0320.000</b>     | LEVA / LEVER / NOCKE 0  | 1        |
| 002  | <b>8001.4041.0320.620</b>     | LEVA / LEVER / NOCKE +0.01 +20  | 1*OPTION |
| 002  | <b>8001.4041.0320.640</b>     | LEVA / LEVER / NOCKE +20.01 +40   | 1*OPTION |
| 002  | <b>8001.4041.0320.720</b>     | LEVA / LEVER / NOCKE -0.01 -20  | 1*OPTION |
| 002  | <b>8001.4041.0320.740</b>     | LEVA / LEVER / NOCKE -20.01 -40   | 1*OPTION |
| 003  | <b>8005.0780.0740.100.001</b> | PERNO / PIN / STIFT   | 1        |
| 004  | <b>8005.0780.0740.120.001</b> | PERNO / PIN / STIFT   | 1        |
| 005  | <b>8014.4041.0320</b>         | PORTA PUNZONE / GATE PUNCH / STEMPELHALTEPLATTE   | 1        |
| 006  | <b>8006.0020.0350.141.001</b> | RONDELLA / WASHER / UNTERLEGSCHIBE  | 1        |
| 007  | <b>09MJBM2.160.096</b>        | MJB_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 96.5 | 1        |
| 007  | <b>09MJXM2.160.096</b>        | MIX_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 96.5 | 1*OPTION |
| 007  | <b>09MJOM2.160.096</b>        | MJO_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 96.5 | 1*OPTION |
| 007  | <b>09MJJM2.160.096</b>        | MJJ_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 96.5 | 1*OPTION |
| 007  | <b>09MJHM2.160.096</b>        | MJH_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 96.5 | 1*OPTION |
| 007  | <b>09MJKM2.160.096</b>        | MJK_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 96.5 | 1*OPTION |
| 007  | <b>09MJNM2.160.096</b>        | MJN_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 96.5 | 1*OPTION |
| 007  | <b>09MJLM2.160.096</b>        | MJL_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 96.5 | 1*OPTION |
| 007  | <b>09MJRM2.160.096</b>        | MJR_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 96.5 | 1*OPTION |
| 007  | <b>09MJVM2.160.096</b>        | MJV_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 96.5 | 1*OPTION |
| 007  | <b>09MJYM2.160.096</b>        | MJY_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 96.5 | 1*OPTION |
| 007  | <b>09MJZM2.160.096</b>        | MJZ_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 96.5 | 1*OPTION |
| 008  | <b>9004.1120.001</b>          | SEEGER / SEEGER / SEEGERRING  | 2        |
| 009  | <b>9004.1100.001</b>          | SEEGER / SEEGER / SEEGERRING  | 2        |
| 010  | <b>9009.2000.0640.250</b>     | MOLLA / SPRING / FEDER  | 1        |
| 011  | <b>8060.1432.020.E090.001</b> | MOLLA IN GOMMA / RUBBER SPRING / ABSTREIFFEDER  | 1        |
| 012  | <b>8005.0465.0300.120.001</b> | PERNO / PIN / STIFT   | 1        |
| 013  | <b>8005.0350.0350.080.001</b> | PERNO / PIN / STIFT   | 1        |
| 016  | <b>8003.0700.0550.240.001</b> | INCLUDINE / ANVIL / TREIBER   | 1*OPTION |
| 017  | <b>9006.002</b>               | INGRASSATORE / NIPPLE / SCHMIERUNG  | 1        |

002 (8001) LEVA / LEVER / NOCKE

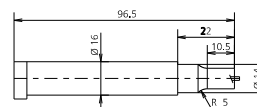


8124.0140.0320 KIT ADATTAMENTO STARK STRIPPER / STARK-STRIP ADAPTION KIT / STARK-STRIP ADAPTIONSSATZ

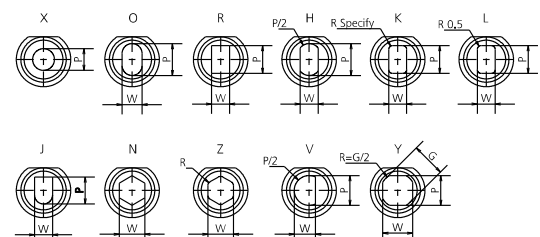
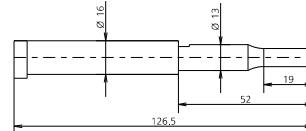


Il kit comprende il punzone, la piastrina di adattamento e le viti di fissaggio.  
 Lo stark-stripper va ordinato a parte (vedi la sezione del catalogo dedicata)  
 The kit includes the punch, the adapter plate and the fixing screws.  
 The stark-stripper must be ordered separately (see the dedicated catalog section)  
 Das Kit enthält den Stempel, die Adapterplatte und die Befestigungsschrauben.  
 Der Stark-muss separat bestellt werden (siehe den entsprechenden Abschnitt des Katalogs)

007 (09M) PUNZONE TC / HEADED PUNCH / SCHNEIDSTEMPEL ISO8020



007 (09S) PUNZONE SPECIALE PER KIT 8124 / SPECIAL PUNCH FOR KIT 8124 / SPEZIALSTEMPEL FÜR BAUSATZ 8124



MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0140.0320** INCLINATION **+10°** OPTION CODE **8001.4041.0320.620**

# 0141.0170 - CAM ML170

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE  
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

25 daN

SFORZO MAX TRANCIO

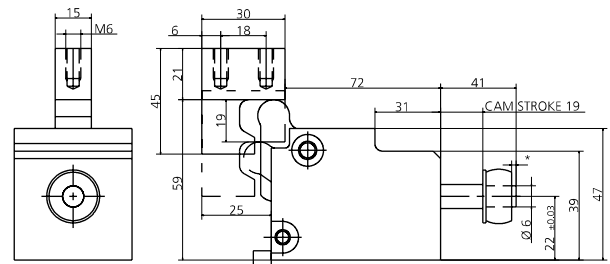
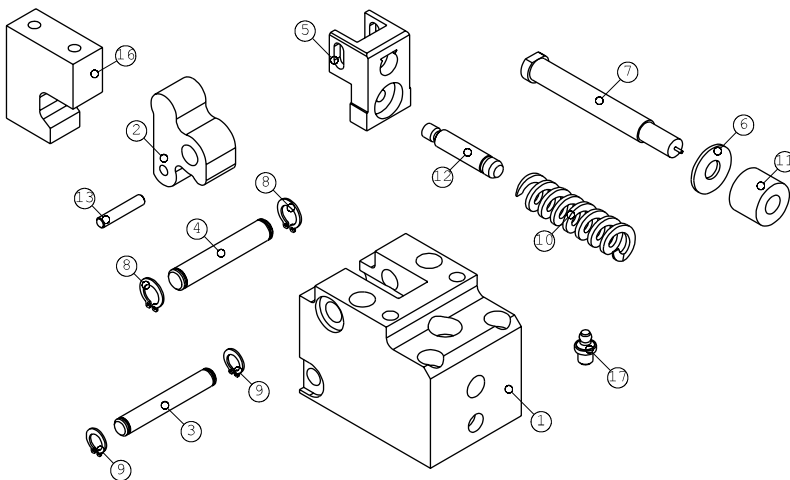
1000 daN

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION  
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

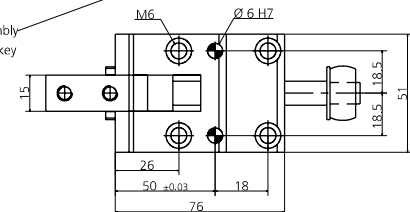
170 daN

CUTTING MAX FORCE  
MAXIMALE SCHNITTKRAFT  
EFFORT MAXI DÉCOUPE

\* MAX 30% LUNGHEZZA LIBERA

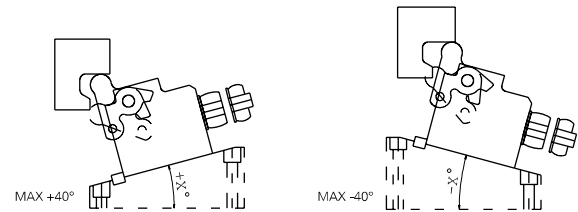


We suggest you to assembly by using a thrust mount key

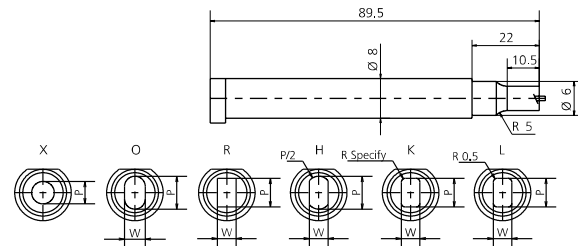


| POS. | CODE                   | DESCRIPTION  | Q.TY     |
|------|------------------------|--|----------|
| 001  | 8000.0041.0170         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE  | 1        |
| 002  | 8001.4041.0170.000     | LEVA / LEVER / NOCKE 0   | 1        |
| 002  | 8001.4041.0170.620     | LEVA / LEVER / NOCKE +0.01 +20   | 1*OPTION |
| 002  | 8001.4041.0170.640     | LEVA / LEVER / NOCKE +20.01 +40  | 1*OPTION |
| 002  | 8001.4041.0170.720     | LEVA / LEVER / NOCKE -0.01 -20   | 1*OPTION |
| 002  | 8001.4041.0170.740     | LEVA / LEVER / NOCKE -20.01 -40  | 1*OPTION |
| 003  | 8005.0510.0474.060.001 | PERNO / PIN / STIFT  | 1        |
| 004  | 8005.0510.0476.080.001 | PERNO / PIN / STIFT  | 1        |
| 005  | 8014.4041.0170         | PORTA PUNZONE / GATE PUNCH / STEMPHALTEPLATTE  | 1        |
| 006  | 8006.0020.0240.062.001 | RONDELLA / WASHER / UNTERLEGSCHIBE   | 1        |
| 007  | 09MJBM2.080.089        | MJB_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 8 89.5 | 1        |
| 007  | 09MJXM2.080.089        | MJX_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 8 89.5 | 1*OPTION |
| 007  | 09MJOM2.080.089        | MJO_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 8 89.5 | 1*OPTION |
| 007  | 09MJJM2.080.089        | MJJ_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 8 89.5 | 1*OPTION |
| 007  | 09MJHM2.080.089        | MJH_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 8 89.5 | 1*OPTION |
| 007  | 09MJKM2.080.089        | MJK_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 8 89.5 | 1*OPTION |
| 007  | 09MJNM2.080.089        | MJN_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 8 89.5 | 1*OPTION |
| 007  | 09MJLM2.080.089        | MJL_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 8 89.5 | 1*OPTION |
| 007  | 09MJRM2.080.089        | MJR_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 8 89.5 | 1*OPTION |
| 007  | 09MJVM2.080.089        | MJV_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 8 89.5 | 1*OPTION |
| 007  | 09MJYM2.080.089        | MJY_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 8 89.5 | 1*OPTION |
| 007  | 09MJZM2.080.089        | MJZ_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 8 89.5 | 1*OPTION |
| 008  | 9004.1080.001          | SEGER / SEEGER / SEEGERRING  | 2        |
| 009  | 9004.1060.001          | SEGER / SEEGER / SEEGERRING  | 2        |
| 010  | 9009.2000.0640.120     | MOLLA / SPRING / FEDER   | 1        |
| 011  | 8060.0620.020.E090.001 | MOLLA IN GOMMA / RUBBER SPRING / ABSTREIFFEDER   | 1        |
| 012  | 8005.0465.0350.060.001 | PERNO / PIN / STIFT  | 1        |
| 013  | 8005.0230.0230.040.001 | PERNO / PIN / STIFT  | 1        |
| 016  | 8003.0450.0300.150.001 | INCUDINE / ANVIL / TREIBER   | 1*OPTION |
| 017  | 9006.001               | INGRASSATORE / NIPPLES / SCHMIERUNG  | 1        |

002 (8001) LEVA / LEVER / NOCKE



007 (09M) PUNZONE TC / HEADED PUNCH / SCHNEIDSTEMPEL ISO8020



MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

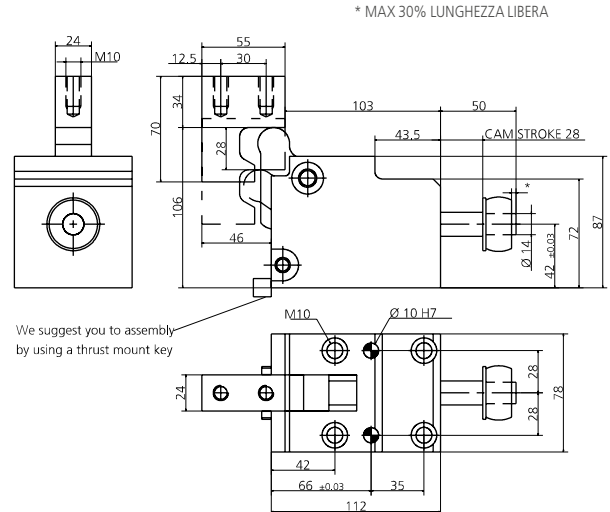
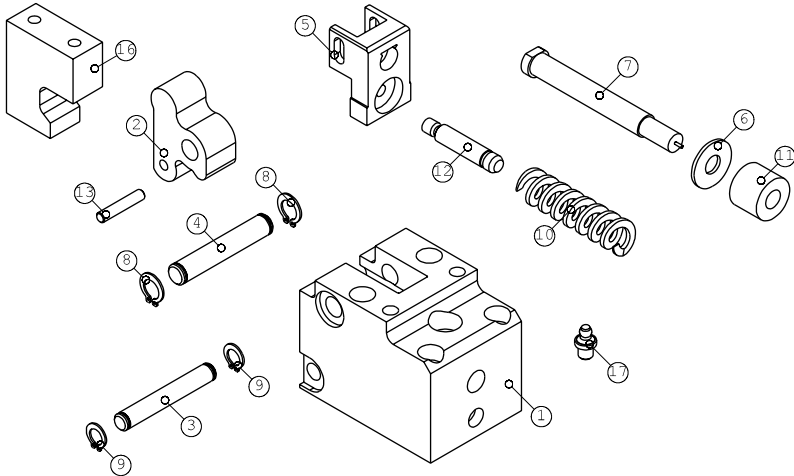
MODEL **0141.0170** INCLINATION **+10°** OPTION CODE **8001.4041.0170.620**





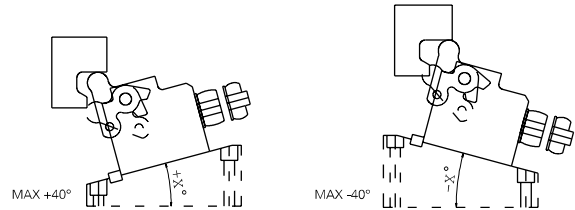
# 0141.0320 - CAM ML320

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **70 daN** SFORZO MAX TRANCIO **5000 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 CUTTING MAX FORCE  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **320 daN** MASSIMALE SCHNITTKRAFT  
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION EFFORT MAXI DÉCOUPE

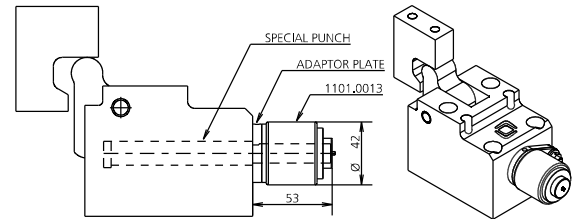


| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0041.0320</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE  | 1        |
| 002  | <b>8001.4041.0320.000</b>     | LEVA / LEVER / NOCKE 0   | 1        |
| 002  | <b>8001.4041.0320.620</b>     | LEVA / LEVER / NOCKE +0.01 +20   | 1*OPTION |
| 002  | <b>8001.4041.0320.640</b>     | LEVA / LEVER / NOCKE +20.01 +40  | 1*OPTION |
| 002  | <b>8001.4041.0320.720</b>     | LEVA / LEVER / NOCKE -0.01 -20   | 1*OPTION |
| 002  | <b>8001.4041.0320.740</b>     | LEVA / LEVER / NOCKE -20.01 -40  | 1*OPTION |
| 003  | <b>8005.0780.0740.100.001</b> | PERNO / PIN / STIFT  | 1        |
| 004  | <b>8005.0780.0740.120.001</b> | PERNO / PIN / STIFT  | 1        |
| 005  | <b>8014.4041.0320</b>         | PORTA PUNZONE / GATE PUNCH / STEMPHALTEPLATTE  | 1        |
| 006  | <b>8006.0020.0350.141.001</b> | RONDELLA / WASHER / UNTERLEGSCHIBE   | 1        |
| 007  | <b>09MJBM2.160.121</b>        | MJB_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 121.5 | 1        |
| 007  | <b>09MJXM2.160.121</b>        | MJX_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 121.5 | 1*OPTION |
| 007  | <b>09MJOM2.160.121</b>        | MJO_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 121.5 | 1*OPTION |
| 007  | <b>09MJJM2.160.121</b>        | MJJ_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 121.5 | 1*OPTION |
| 007  | <b>09MJHM2.160.121</b>        | MJH_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 121.5 | 1*OPTION |
| 007  | <b>09MJKM2.160.121</b>        | MJK_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 121.5 | 1*OPTION |
| 007  | <b>09MJNM2.160.121</b>        | MJN_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 121.5 | 1*OPTION |
| 007  | <b>09MJLM2.160.121</b>        | MJL_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 121.5 | 1*OPTION |
| 007  | <b>09MJRM2.160.121</b>        | MJR_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 121.5 | 1*OPTION |
| 007  | <b>09MJVM2.160.121</b>        | MJV_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 121.5 | 1*OPTION |
| 007  | <b>09MJYM2.160.121</b>        | MJY_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 121.5 | 1*OPTION |
| 007  | <b>09MJZM2.160.121</b>        | MJZ_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 121.5 | 1*OPTION |
| 008  | <b>9004.1120.001</b>          | SEGER / SEEGER / SEEGERRING  | 2        |
| 009  | <b>9004.1100.001</b>          | SEGER / SEEGER / SEEGERRING  | 2        |
| 010  | <b>9009.2000.0890.250</b>     | MOLLA / SPRING / FEDER   | 1        |
| 011  | <b>8060.1432.020.E090.001</b> | MOLLA IN GOMMA / RUBBER SPRING / ABSTREIFFEDER   | 1        |
| 012  | <b>8005.0665.0500.120.001</b> | PERNO / PIN / STIFT  | 1        |
| 013  | <b>8005.0350.0350.080.001</b> | PERNO / PIN / STIFT  | 1        |
| 016  | <b>8003.0700.0550.240.001</b> | INCUDINE / ANVIL / TREIBER   | 1*OPTION |
| 017  | <b>9006.002</b>               | INGRASSATORE / NIPPLE / SCHMIERUNG   | 1        |

002 (8001) LEVA / LEVER / NOCKE

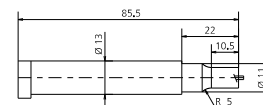


8124.0141.0320 KIT ADATTAMENTO STARK STRIPPER / STARK-STRIP ADAPTION KIT / STARK-STRIP ADAPTIONSSATZ

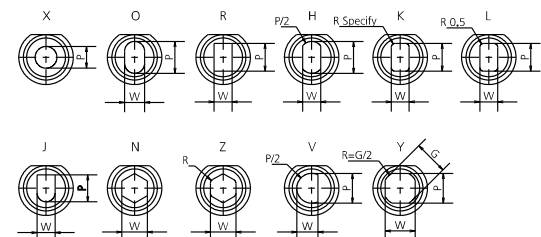
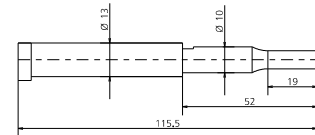


Il kit comprende il punzone, la piastrina di adattamento e le viti di fissaggio.  
 Lo stark-stripper va ordinato a parte (vedi la sezione del catalogo dedicata)  
 The kit includes the punch, the adapter plate and the fixing screws.  
 The stark-stripper must be ordered separately (see the dedicated catalog section)  
 Das Kit enthält den Stempel, die Adapterplatte und die Befestigungsschrauben.  
 Der Stark-muss separat bestellt werden (siehe den entsprechenden Abschnitt des Katalogs)

007 (09M) PUNZONE TC / HEADED PUNCH / SCHNEIDSTEMPEL ISO8020



007 (09S) PUNZONE SPECIALE PER KIT 8124 / SPECIAL PUNCH FOR KIT 8124 / SPEZIALSTEMPEL FÜR BAUSATZ 8124



MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0141.0320** INCLINATION **+10°** OPTION CODE **8001.4041.0320.620**



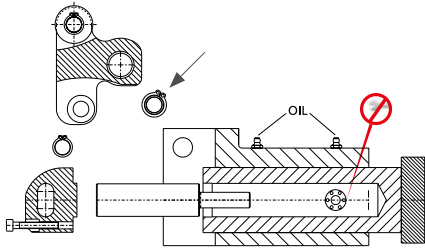
## CAM MA

- IT** Camma meccanica di potenza fino a 10'000 daN con ritorno garantito mediante una molla ad azoto, su cui vengono applicati gli accessori o gli acciai per eseguire le lavorazioni desiderate. È dotata di una struttura solida e compatta, al cui interno vi è un meccanismo antirotativo di posizionamento. Può essere montata in posizione orizzontale o inclinata (previo confronto con l'ufficio tecnico Newstark). Possibili applicazioni: adatta a lavori generalmente di trancitura, foratura e piegatura.
- EN** Mechanical cam with power supply up to 10'000 daN with return by nitrogen spring, on which are applied accessories or steel, to perform required work. It has a solid and compact structure, in which there is an anti-rotation system. Can be fitted horizontally or inclined (after comparison with Newstark's technical department). Means of application: generally suitable for cutting, drilling and bending works.
- DE** Mechanische Stanzheit mit der Kraft bis 10'000 daN und einem Rücklauf, der durch eine Stickstofffeder sichergestellt wird. An die Stahlplatte kann Zubehör je nach Bedarf angebracht werden. Diese Stanzeinheit hat eine feste und kompakte Bauweise, und verfügt über ein Anti-Rotation System für den Werkzeugträger. Die Einheiten können (nach Abstimmung mit dem technische Büro von Newstark) horizontal oder geneigt montiert werden. Mögliche Anwendungen: Stanzen, Biegen und Prägen.
- FR** Came mécanique d'une puissance allant jusqu'à 10'000 daN avec retour garanti au moyen d'un ressort à azote sur lequel sont appliqués les accessoires ou les aciers pour réaliser les usinages souhaités. Elle a une structure solide et compacte, à l'intérieur de laquelle se trouve un mécanisme de positionnement anti-rotation. Elle peut être montée en position horizontale ou inclinée (après discussion avec le bureau technique Newstark). Applications possibles: convient pour les travaux de découpage, de perçage et de pliage.



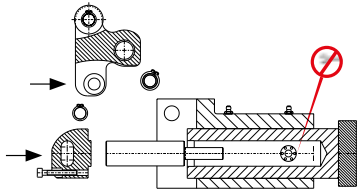
### PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS OF FORCE





- ATTENZIONE:**  
per eseguire la prova manualmente togliere il cilindro come indicato.
- ATTENTION:**  
in order to manually perform the test, extract the cylinder as indicated.
- ACHTUNG:**  
Stickstoffzylinder verbaut, Schieber nur in Grundstellung öffnen.
- ATTENTION:**  
pour effectuer le test, retirer manuellement le cylindre comme indiqué.

SMONTAGGIO PRODOTTO MA / PRODUCT DISASSEMBLY MA / DEMONTAGE DES PRODUKTES MA / DÉMONTAGE PRODUIT MA



- ATTENZIONE:** cilindro a gas in pressione.
- ATTENTION:** gas cylinder under pressure.
- ACHTUNG:** Gasdruckfeder steht unter hohem Druck.
- ATTENTION:** cylindre à gaz sous pression.

- IT** **Attenzione:** Assicurarsi che la camma sia nella sua posizione normale prima di eseguire qualsiasi lavoro di smontaggio o manutenzione.
1. Togliere il cilindro a gas rimuovendo i seeger e le viti come indicato.
  2. Eseguire le verifiche.
  3. Rimontare con cura lubrificando con grasso bisolfuro di Molibdeno (MoS<sub>2</sub>). L'uso di questo grasso viene consigliato da Newstark.
  4. Assicurare il corretto riposizionamento dei singoli componenti.
- Lubrificare durante l'uso con grasso bisolfuro di Molibdeno (MoS<sub>2</sub>).

- EN** **Attention:** Undertake reassembly or maintenance work only when the cam unit is in its basic position.
1. Take off the gas cylinder by removing the seegers and the screws as shown.
  2. Check the components.
  3. Reassemble carefully using grease with disulfide molybdeno (MoS<sub>2</sub>). The use of this grease is recommended by Newstark.
  4. Ensure the correct positioning of the individual components. During use lubricate with grease with disulfide molybdeno (MoS<sub>2</sub>).

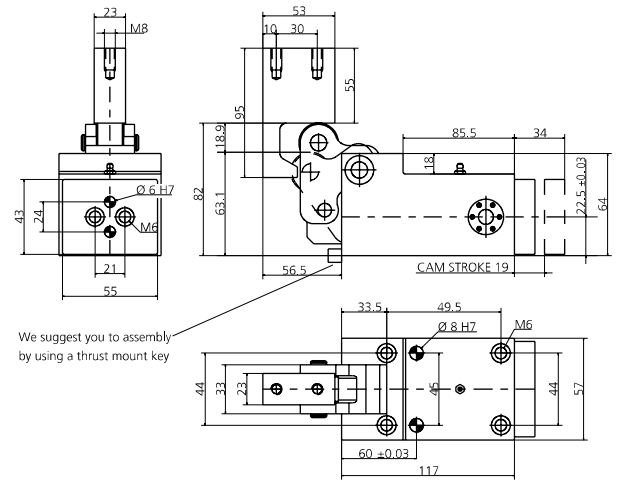
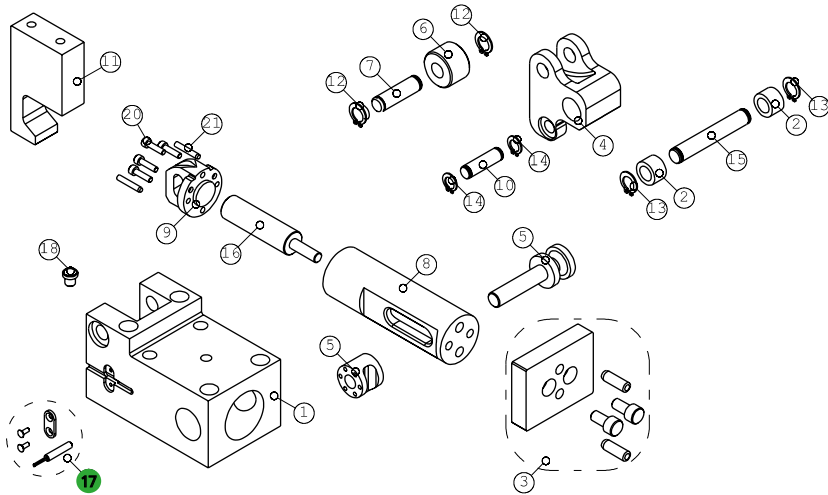
- DE** **Achtung:** Wartungs- und Demontearbeiten nur in Grundstellung der Stanzeinheit vornehmen.
1. Seegering und Schrauben entfernen um die Gasdruckfeder herauszuziehen.
  2. Komponenten prüfen.
  3. Montage in umgekehrter Reihenfolge unter Verwendung von Molybdändisulfidfett (MoS<sub>2</sub>). Die Verwendung dieses Fett wird durch Newstark empfohlen.
  4. Auf richtigen Sitz der einzelnen Komponenten achten. Während des Gebrauches, mit Molybdändisulfidfett (MoS<sub>2</sub>) nachschmieren.

- FR** **Attention:** S'assurer que la came est dans sa position normale avant d'effectuer des travaux de démontage ou de maintenance.
1. Retirer le cylindre à gaz en retirant les circlips et les vis comme indiqué.
  2. Effectuer les contrôles.
  3. Remonter soigneusement en lubrifiant avec de la graisse au bisulfure de molybdène (MoS<sub>2</sub>). Newstark recommande l'utilisation de cette graisse.
  4. S'assurer que les différents éléments sont correctement repositionnés. Lubrifier avec de la graisse au bisulfure de molybdène (MoS<sub>2</sub>).

# 0142.0100 - CAM MA100

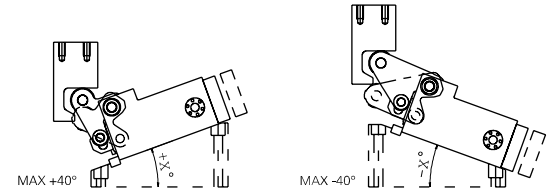
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **100 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **135 daN**  
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **2500 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE



| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0042.0100</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                                      | 1        |
| 002  | <b>9005.0112.0010.001</b>     | CUSCINETTO / BEARING / LAGER   | 2        |
| 003  | <b>8014.4244.0100</b>         | KIT PORTA PUNZONE / KIT PUNCH HOLDER / KIT TRÄGERPLATTE                    | 1*OPTION |
| 004  | <b>8001.0042.0100.000</b>     | LEVA / LEVER / NOCKE 0   | 1        |
| 004  | <b>8001.0042.0100.620</b>     | LEVA / LEVER / NOCKE +0.01 +20   | 1*OPTION |
| 004  | <b>8001.0042.0100.640</b>     | LEVA / LEVER / NOCKE +20.01 +40  | 1*OPTION |
| 004  | <b>8001.0042.0100.720</b>     | LEVA / LEVER / NOCKE -0.01 -20   | 1*OPTION |
| 004  | <b>8001.0042.0100.740</b>     | LEVA / LEVER / NOCKE -20.01 -40  | 1*OPTION |
| 005  | <b>8017.4244.0100</b>         | PERNO DI GUIDA / GUIDE PIN / FÜHRUNGSSTIFTE                                | 1        |
| 006  | <b>8004.0260.0170.100.001</b> | ROTELLA / ROLLER / ROLLE   | 1        |
| 007  | <b>8005.0376.0350.100.001</b> | PERNO / PIN / STIFT  | 1        |
| 008  | <b>8018.1120.0905.350.001</b> | PERNO CENTRALE / CENTRAL PIN / HAUPTSTIFT                                  | 1        |
| 009  | <b>8002.0042.0100</b>         | FLANGIA / FLANGE / FLANSCH   | 1        |
| 010  | <b>8005.0326.0300.100.001</b> | PERNO / PIN / STIFT  | 1        |
| 011  | <b>8003.0950.0530.230.001</b> | INCLUDINE / ANVIL / TREIBER  | 1*OPTION |
| 012  | <b>9004.1100.001</b>          | SEEGER / SEEGER / SEEGERRING   | 2        |
| 013  | <b>9004.1100.001</b>          | SEEGER / SEEGER / SEEGERRING   | 2        |
| 014  | <b>9004.1100.001</b>          | SEEGER / SEEGER / SEEGERRING   | 2        |
| 015  | <b>8005.0546.0520.100.001</b> | PERNO / PIN / STIFT  | 1        |
| 016  | <b>9000.0020.0015.001</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER                 | 1        |
| 017  | <b>8107.0142.0100.001</b>     | KIT SENSORE DI SICUREZZA / SECURITY SENSOR KIT / KIT SENSOR FÜR SICHERHEIT | 1*OPTION |
| 018  | <b>9006.004</b>               | INGRASSATORE / NIPPLES / SCHMIERUNG  | 1        |
| 020  | <b>9007.04.010.129.1.4762</b> | VITE / SCREW / SCHRAUBE M4X10  | 4        |
| 021  | <b>9028.040.010.8735</b>      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D4X10                         | 2        |

004 (8001) LEVA / LEVER / NOCKE



017 (8107) SENSORE / SENSOR / SENSOR



**17** PATENT PENDING

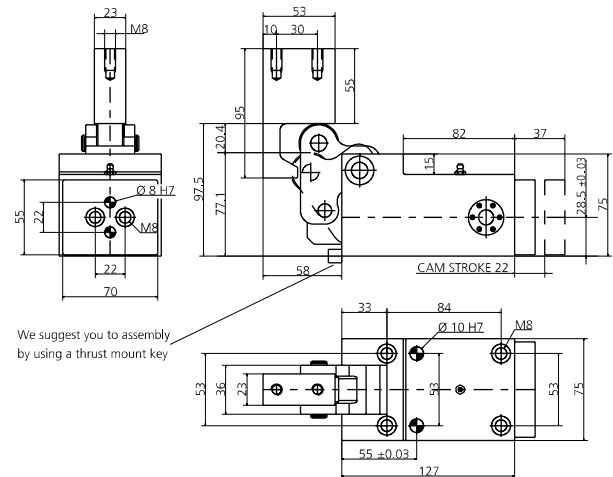
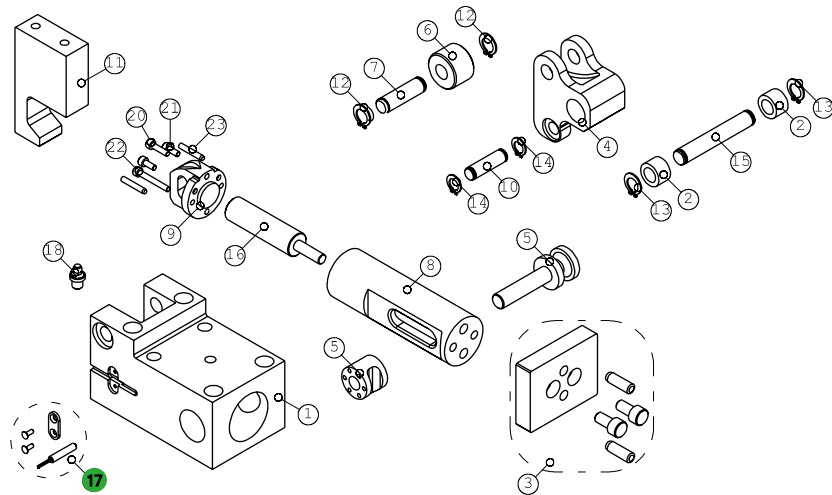
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0142.0100** INCLINATION **+10°** OPTION CODE **8001.0042.0100.620**

# 0142.0150 - CAM MA150

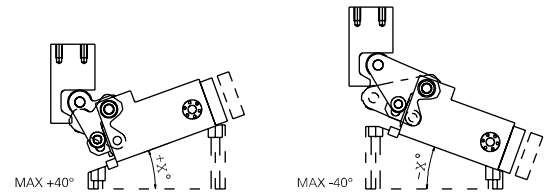
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **150 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **180 daN**  
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **3000 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE



| POS. | CODE                   | DESCRIPTION  | Q.TY     |
|------|------------------------|--|----------|
| 001  | 8000.0042.0150         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                                      | 1        |
| 002  | 9005.0112.0012.001     | CUSCINETTO / BEARING / LAGER   | 2        |
| 003  | 8014.4244.0150         | KIT PORTA PUNZONE / KIT PUNCH HOLDER / KIT TRÄGERPLATTE                    | 1*OPTION |
| 004  | 8001.0042.0150.000     | LEVA / LEVER / NOCKE 0   | 1        |
| 004  | 8001.0042.0150.620     | LEVA / LEVER / NOCKE +0.01 +20   | 1*OPTION |
| 004  | 8001.0042.0150.640     | LEVA / LEVER / NOCKE +20.01 +40  | 1*OPTION |
| 004  | 8001.0042.0150.720     | LEVA / LEVER / NOCKE -0.01 -20   | 1*OPTION |
| 004  | 8001.0042.0150.740     | LEVA / LEVER / NOCKE -20.01 -40  | 1*OPTION |
| 005  | 8017.4244.0150         | PERNO DI GUIDA / GUIDE PIN / FÜHRUNGSSTIFTE                                | 1        |
| 006  | 8004.0290.0200.120.001 | ROTELLA / ROLLER / ROLLE   | 1        |
| 007  | 8005.0420.0380.120.001 | PERNO / PIN / STIFT  | 1        |
| 008  | 8018.1220.1070.400.001 | PERNO CENTRALE / CENTRAL PIN / HAUPTSTIFT                                  | 1        |
| 009  | 8002.0042.0150         | FLANGIA / FLANGE / FLANSCH   | 1        |
| 010  | 8005.0356.0330.100.001 | PERNO / PIN / STIFT  | 1        |
| 011  | 8003.0950.0530.230.001 | INCUDINE / ANVIL / TREIBER   | 1*OPTION |
| 012  | 9004.1120.001          | SEEGER / SEEGER / SEEGERRING   | 2        |
| 013  | 9004.1120.001          | SEEGER / SEEGER / SEEGERRING   | 2        |
| 014  | 9004.1100.001          | SEEGER / SEEGER / SEEGERRING   | 2        |
| 015  | 8005.0740.0700.120.001 | PERNO / PIN / STIFT  | 1        |
| 016  | 9000.0025.0019.001     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER                 | 1        |
| 017  | 8107.0142.0150.001     | KIT SENSORE DI SICUREZZA / SECURITY SENSOR KIT / KIT SENSOR FÜR SICHERHEIT | 1*OPTION |
| 018  | 9006.002               | INGRASSATORE / NIPPLE / SCHMIERUNG   | 1        |
| 020  | 9007.04.010.129.1.4762 | VITE / SCREW / SCHRAUBE SCHRAUBE M4X10                                     | 1        |
| 021  | 9007.04.008.129.1.4762 | VITE / SCREW / SCHRAUBE M4X8   | 2        |
| 022  | 9007.04.025.129.1.4762 | VITE / SCREW / SCHRAUBE M4X25  | 1        |
| 023  | 9028.040.010.8735      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D4X10                         | 2        |

004 (8001) LEVA / LEVER / NOCKE



017 (8107) SENSORE / SENSOR / SENSOR



17 PATENT PENDING

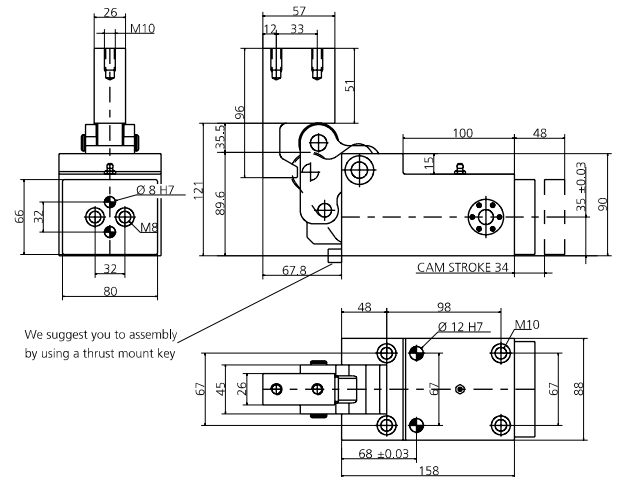
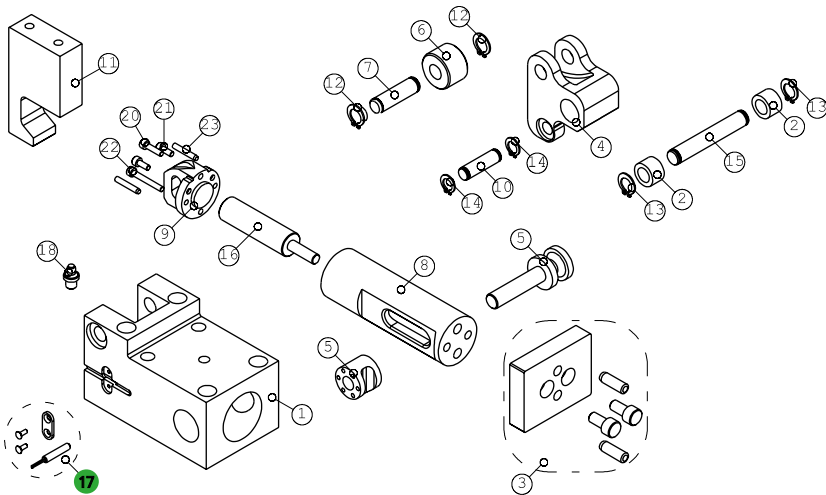
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0142.0150** INCLINAZIONE **+10°** OPTION CODE **8001.0042.0150.620**

# 0142.0240 - CAM MA240

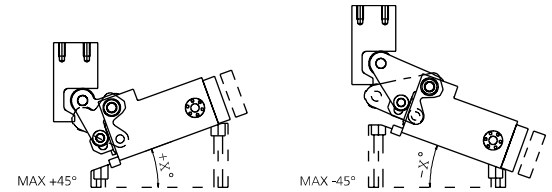
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **240 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **270 daN**  
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **5000 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE



| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0042.0240</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                                      | 1        |
| 002  | <b>9005.0112.0015.001</b>     | CUSCINETTO / BEARING / LAGER   | 2        |
| 003  | <b>8014.4244.0240</b>         | KIT PORTA PUNZONE / KIT PUNCH HOLDER / KIT TRÄGERPLATTE                    | 1*OPTION |
| 004  | <b>8001.0042.0240.000</b>     | LEVA / LEVER / NOCKE 0   | 1        |
| 004  | <b>8001.0042.0240.610</b>     | LEVA / LEVER / NOCKE +0.01 +10   | 1*OPTION |
| 004  | <b>8001.0042.0240.630</b>     | LEVA / LEVER / NOCKE +10.01 +30  | 1*OPTION |
| 004  | <b>8001.0042.0240.645</b>     | LEVA / LEVER / NOCKE +30.01 +45  | 1*OPTION |
| 004  | <b>8001.0042.0240.715</b>     | LEVA / LEVER / NOCKE -0.01 -15   | 1*OPTION |
| 004  | <b>8001.0042.0240.730</b>     | LEVA / LEVER / NOCKE -15.01 -30  | 1*OPTION |
| 004  | <b>8001.0042.0240.745</b>     | LEVA / LEVER / NOCKE -30.01 -45  | 1*OPTION |
| 005  | <b>8017.4244.0240</b>         | PERNO DI GUIDA / GUIDE PIN / FÜHRUNGSSTIFTE                                | 1        |
| 006  | <b>8004.0290.0240.120.001</b> | ROTELLA / ROLLER / ROLLE   | 1        |
| 007  | <b>8005.0510.0470.120.001</b> | PERNO / PIN / STIFT  | 1        |
| 008  | <b>8018.1524.1344.500.001</b> | PERNO CENTRALE / CENTRAL PIN / HAUPTSTIFT                                  | 1        |
| 009  | <b>8002.0042.0240</b>         | FLANGIA / FLANGE / FLANSCH   | 1        |
| 010  | <b>8005.0446.0406.120.001</b> | PERNO / PIN / STIFT  | 1        |
| 011  | <b>8003.0960.0570.260.001</b> | INCLUDINE / ANVIL / TREIBER  | 1*OPTION |
| 012  | <b>9004.1120.001</b>          | SEEGER / SEEGER / SEEGERRING   | 2        |
| 013  | <b>9004.1150.001</b>          | SEEGER / SEEGER / SEEGERRING   | 2        |
| 014  | <b>9004.1120.001</b>          | SEEGER / SEEGER / SEEGERRING   | 2        |
| 015  | <b>8005.0870.0830.150.001</b> | PERNO / PIN / STIFT  | 1        |
| 016  | <b>9000.0038.0025.001</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER                 | 1        |
| 017  | <b>8107.0142.0240.001</b>     | KIT SENSORE DI SICUREZZA / SECURITY SENSOR KIT / KIT SENSOR FÜR SICHERHEIT | 1*OPTION |
| 018  | <b>9006.002</b>               | INGRASSATORE / NIPPLE / SCHMIERUNG   | 1        |
| 020  | <b>9007.05.016.129.1.4762</b> | VITE / SCREW / SCHRAUBE M5X16  | 1        |
| 021  | <b>9007.05.010.129.1.4762</b> | VITE / SCREW / SCHRAUBE M5X10  | 2        |
| 022  | <b>9007.05.035.129.1.4762</b> | VITE / SCREW / SCHRAUBE M5X35  | 1        |
| 023  | <b>9028.050.012.8735</b>      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D5X12                         | 2        |

004 (8001) LEVA / LEVER / NOCKE



017 (8107) SENSORE / SENSOR / SENSOR



**17** PATENT PENDING

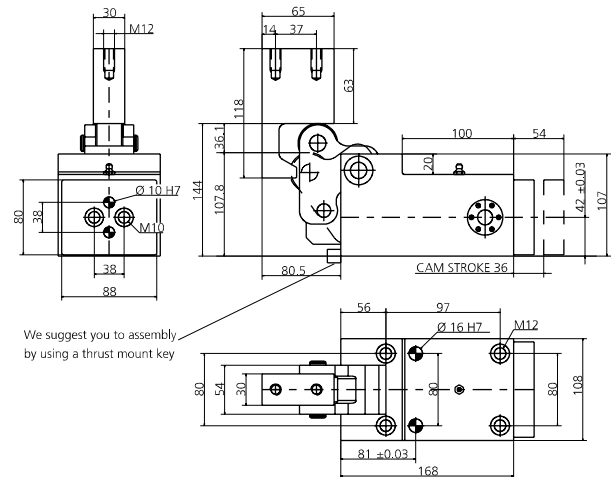
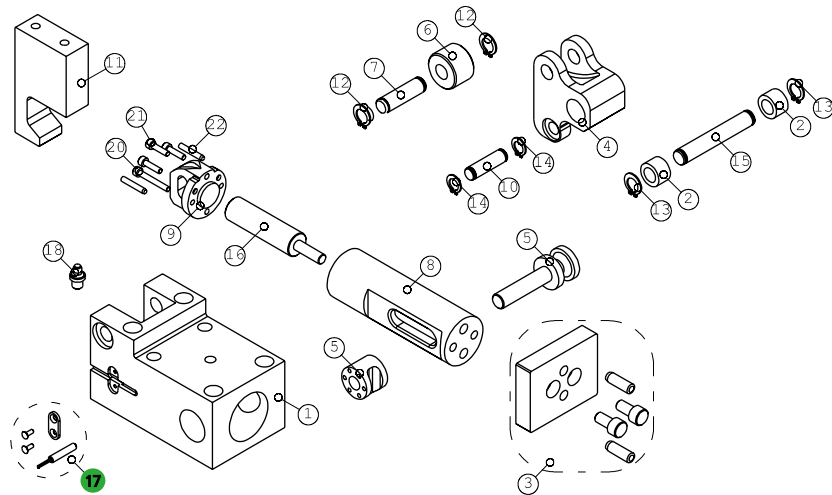
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0142.0240** INCLINATION **+10°** OPTION CODE **8001.0042.0240.610**



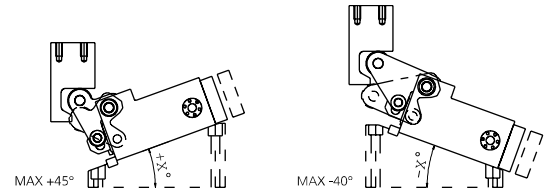
# 0142.0600 - CAM MA600

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **600 daN** SFORZO MAX TRANCIO **7000 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **880 daN** CUTTING MAX FORCE  
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE



| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0042.0600</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                                      | 1        |
| 002  | <b>9005.0116.0020.001</b>     | CUSCINETTO / BEARING / LAGER   | 2        |
| 003  | <b>8014.4244.0600</b>         | KIT PORTA PUNZONE / KIT PUNCH HOLDER / KIT TRÄGERPLATTE                    | 1*OPTION |
| 004  | <b>8001.0042.0600.000</b>     | LEVA / LEVER / NOCKE 0   | 1        |
| 004  | <b>8001.0042.0600.615</b>     | LEVA / LEVER / NOCKE +0.01 +15   | 1*OPTION |
| 004  | <b>8001.0042.0600.630</b>     | LEVA / LEVER / NOCKE +15.01 +30  | 1*OPTION |
| 004  | <b>8001.0042.0600.645</b>     | LEVA / LEVER / NOCKE +30.01 +45  | 1*OPTION |
| 004  | <b>8001.0042.0600.715</b>     | LEVA / LEVER / NOCKE -0.01 -15   | 1*OPTION |
| 004  | <b>8001.0042.0600.730</b>     | LEVA / LEVER / NOCKE -15.01 -30  | 1*OPTION |
| 004  | <b>8001.0042.0600.740</b>     | LEVA / LEVER / NOCKE -30.01 -40  | 1*OPTION |
| 005  | <b>8017.4244.0600</b>         | PERNO DI GUIDA / GUIDE PIN / FÜHRUNGSTIFTE                                 | 1        |
| 006  | <b>8004.0370.0280.200.001</b> | ROTELLA / ROLLER / ROLLE   | 1        |
| 007  | <b>8005.0610.0540.200.001</b> | PERNO / PIN / STIFT  | 1        |
| 008  | <b>8018.1500.1275.600.001</b> | PERNO CENTRALE / CENTRAL PIN / HAUPTSTIFT                                  | 1        |
| 009  | <b>8002.0042.0600</b>         | FLANGIA / FLANGE / FLANSCH   | 1        |
| 010  | <b>8005.0530.0460.200.001</b> | PERNO / PIN / STIFT  | 1        |
| 011  | <b>8003.1180.0650.300.001</b> | INCUDINE / ANVIL / TREIBER   | 1*OPTION |
| 012  | <b>9004.1200.001</b>          | SEEGER / SEEGER / SEEGERRING   | 2        |
| 013  | <b>9004.1200.001</b>          | SEEGER / SEEGER / SEEGERRING   | 2        |
| 014  | <b>9004.1200.001</b>          | SEEGER / SEEGER / SEEGERRING   | 2        |
| 015  | <b>8005.1070.1000.200.001</b> | PERNO / PIN / STIFT  | 1        |
| 016  | <b>9000.0038.0038.001</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER                 | 1        |
| 017  | <b>8107.0142.0600.001</b>     | KIT SENSORE DI SICUREZZA / SECURITY SENSOR KIT / KIT SENSOR FÜR SICHERHEIT | 1*OPTION |
| 018  | <b>9006.003</b>               | INGRASSATORE / NIPPLE / SCHMIERUNG   | 1        |
| 020  | <b>9007.06.055.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X55  | 1        |
| 021  | <b>9007.06.025.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X25  | 5        |
| 022  | <b>9028.060.025.8735</b>      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D6X25                         | 2        |

004 (8001) LEVA / LEVER / NOCKE



017 (8107) SENSORE / SENSOR / SENSOR



**17** PATENT PENDING

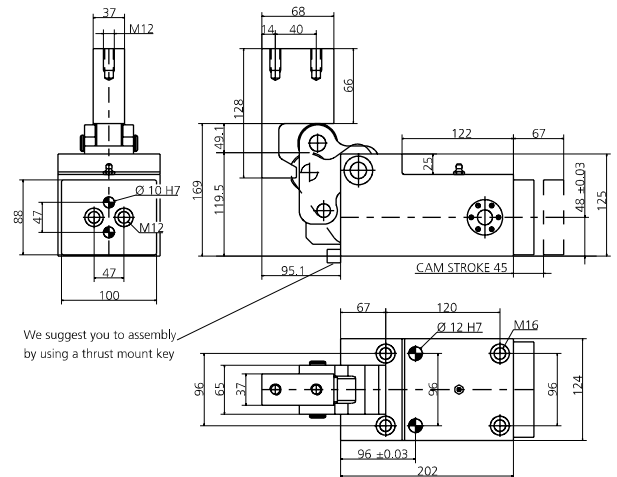
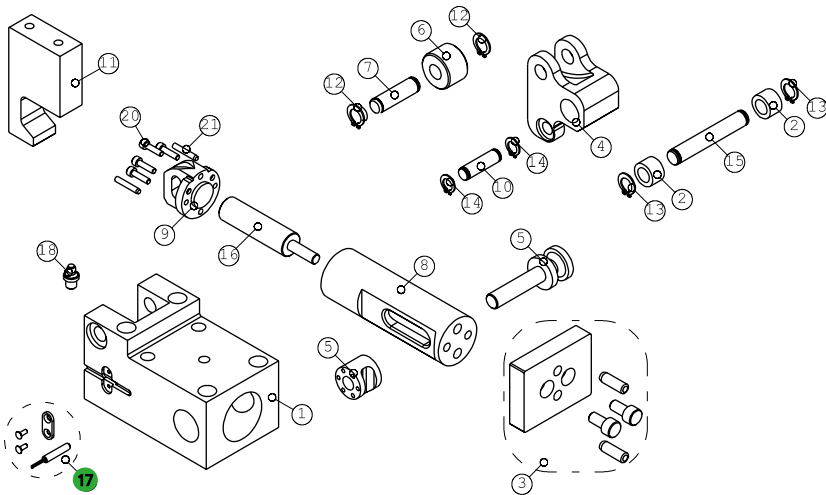
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0142.0600** INCLINAZIONE **+10°** OPTION CODE **8001.0042.0600.615**

# 0142.0850 - CAM MA850

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **850 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1360 daN**  
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

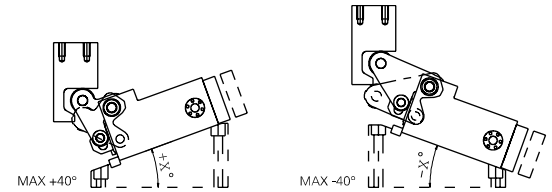
SFORZO MAX TRANCIO **10000 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE



We suggest you to assembly by using a thrust mount key

| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0042.0850</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                                      | 1        |
| 002  | <b>9005.0120.0025.001</b>     | CUSCINETTO / BEARING / LAGER   | 2        |
| 003  | <b>8014.4244.0850</b>         | KIT PORTA PUNZONE / KIT PUNCH HOLDER / KIT TRÄGERPLATTE                    | 1*OPTION |
| 004  | <b>8001.0042.0850.000</b>     | LEVA / LEVER / NOCKE 0   | 1        |
| 004  | <b>8001.0042.0850.610</b>     | LEVA / LEVER / NOCKE +0.01 +10   | 1*OPTION |
| 004  | <b>8001.0042.0850.620</b>     | LEVA / LEVER / NOCKE +10.01 +20  | 1*OPTION |
| 004  | <b>8001.0042.0850.630</b>     | LEVA / LEVER / NOCKE +20.01 +30  | 1*OPTION |
| 004  | <b>8001.0042.0850.640</b>     | LEVA / LEVER / NOCKE +30.01 +40  | 1*OPTION |
| 004  | <b>8001.0042.0850.710</b>     | LEVA / LEVER / NOCKE -0.01 -10   | 1*OPTION |
| 004  | <b>8001.0042.0850.720</b>     | LEVA / LEVER / NOCKE -10.01 -20  | 1*OPTION |
| 004  | <b>8001.0042.0850.730</b>     | LEVA / LEVER / NOCKE -20.01 -30  | 1*OPTION |
| 004  | <b>8001.0042.0850.740</b>     | LEVA / LEVER / NOCKE -30.01 -40  | 1*OPTION |
| 005  | <b>8017.4244.0850</b>         | PERNO DI GUIDA / GUIDE PIN / FÜHRUNGSSTIFTE                                | 1        |
| 006  | <b>8004.0450.0330.220.001</b> | ROTELLA / ROLLER / ROLLE   | 1        |
| 007  | <b>8005.0734.0674.220.001</b> | PERNO / PIN / STIFT  | 1        |
| 008  | <b>8018.1845.1575.700.001</b> | PERNO CENTRALE / CENTRAL PIN / HAUPTSTIFT                                  | 1        |
| 009  | <b>8002.0042.0850</b>         | FLANGIA / FLANGE / FLANSCH   | 1        |
| 010  | <b>8005.0644.0584.220.001</b> | PERNO / PIN / STIFT  | 1        |
| 011  | <b>8003.1280.0680.370.001</b> | INCUDINE / ANVIL / TREIBER   | 1*OPTION |
| 012  | <b>9004.1220.001</b>          | SEEGER / SEEGER / SEEGERRING   | 2        |
| 013  | <b>9004.1250.001</b>          | SEEGER / SEEGER / SEEGERRING   | 2        |
| 014  | <b>9004.1220.001</b>          | SEEGER / SEEGER / SEEGERRING   | 2        |
| 015  | <b>8005.1234.1174.250.001</b> | PERNO / PIN / STIFT  | 1        |
| 016  | <b>9000.0050.0045.001</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER                 | 1        |
| 017  | <b>8107.0142.0850.001</b>     | KIT SENSORE DI SICUREZZA / SECURITY SENSOR KIT / KIT SENSOR FÜR SICHERHEIT | 1*OPTION |
| 018  | <b>9006.003</b>               | INGRASSATORE / NIPPLE / SCHMIERUNG   | 1        |
| 020  | <b>9007.06.025.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X25  | 6        |
| 021  | <b>9028.060.025.8735</b>      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D6X25                         | 2        |

004 (8001) LEVA / LEVER / NOCKE



017 (8107) SENSORE / SENSOR / SENSOR



**17** PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0142.0850** INCLINATION **+10°** OPTION CODE **8001.0042.0850.610**



CAM MA



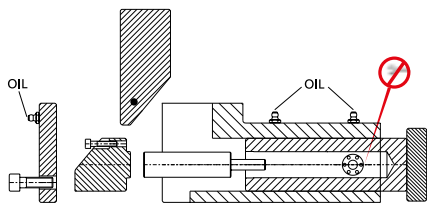
## CAM MAS

- IT** Camma meccanica, di potenza fino a 19'000 daN con un ritorno garantito mediante una molla ad azoto, su cui vengono applicati gli accessori o gli acciai per eseguire le lavorazioni desiderate. Il moto è trasferito mediante cunei inclinati ed è dotato di un sistema antirotativo. Può essere montata in posizione orizzontale o inclinata (previo confronto con l'ufficio tecnico Newstark). Possibili applicazioni: adatta a lavori generalmente di trancitura, foratura e piegatura.
- EN** Mechanical cam, with power supply up to 19'000 daN with return by nitrogen spring, on which are applied accessories or steel, to perform required work. The motion is transferred through wedges inclined and in which there is an anti-rotation system. Can be fitted horizontally or inclined (after comparison with Newstark's technical department). Means of application: generally suitable for shearing, drilling and bending work.
- DE** Mechanische Stanzeinheit, Kraft bis 19'000 daN mit einem Rücklauf der durch eine Stickstofffeder sichergestellt wird. An die Stahlplatte kann Zubehör je nach Bedarf angebracht werden. Bei diesem Modell, wird die Bewegung durch Keile umgesetzt. Des weiteren besitzt diese Einheit ein Anti-Rotationsystem, welches die Drehbewegung auf ein Minimum reduziert. Die Einheiten können (nach Abstimmung mit dem technischen Büro von Newstark) horizontal oder geneigt montiert werden. Mögliche Anwendungen: Stanzen, Biegen und Prägen.
- FR** Came mécanique d'une puissance allant jusqu'à 19'000 daN avec retour garanti au moyen d'un ressort à azote, sur lequel sont appliqués les accessoires ou les aciers pour réaliser les usinages souhaités. Le mouvement est transmis par des cales inclinées et est équipé d'un système anti-rotation. Elle peut être montée en position horizontale ou inclinée (après discussion avec le bureau technique Newstark). Applications possibles: convient pour les travaux de découpage, de perçage et de pliage.



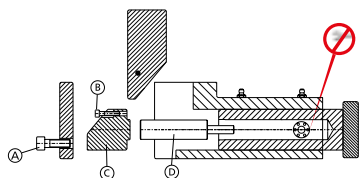
### PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE





- ATTENZIONE:**  
per eseguire la prova manualmente togliere il cilindro come indicato.
- ATTENTION:**  
in order to manually perform the test, extract the cylinder as indicated.
- ACHTUNG:**  
Stickstoffzylinder verbaut, Schieber nur in Grundstellung öffnen.
- ATTENTION:**  
pour effectuer le test, retirer manuellement le cylindre comme indiqué.

SMONTAGGIO PRODOTTO MAS / PRODUCT DISASSEMBLY MAS / DEMONTAGE DES PRODUKTES MAS / DÉMONTAGE PRODUIT MAS



- ATTENZIONE:** cilindro a gas in pressione.
- ATTENTION:** gas cylinder under pressure.
- ACHTUNG:** Gasdruckfeder steht unter hohem Druck.
- ATTENTION:** cylindre à gaz sous pression.

- IT** **Attenzione:** Assicurarsi che la camma sia nella sua posizione normale prima di eseguire qualsiasi lavoro di smontaggio o manutenzione.
1. Togliere il cilindro a gas rimuovendo le viti "A" come indicato.
  2. Togliere le viti "B", togliere la slitta "C", ed estrarre la molla a gas.
  3. Eseguire le verifiche.
  4. Rimontare con cura lubrificando con grasso bisolfuro di Molibdeno (MoS<sub>2</sub>). L'uso di questo grasso viene consigliato da Newstark.
  5. Assicurare il corretto riposizionamento dei singoli componenti. Lubrificare durante l'uso con grasso bisolfuro di Molibdeno (MoS<sub>2</sub>).

- DE** **Achtung:** Wartungs- und Demontearbeiten nur in Grundstellung der Stanzeinheit vornehmen.
1. Hintere Schrauben "A" entfernen um die Einheit zu öffnen.
  2. Schrauben "B" lösen, Lagerkeil "C" entfernen, Gasdruckfeder "D" herausziehen.
  3. Komponenten prüfen.
  4. Montage in umgekehrter Reihenfolge unter Verwendung von Molybdändisulfidfett (MoS<sub>2</sub>). Die Verwendung dieses Fett wird durch Newstark empfohlen.
  5. Auf richtigen Sitz der einzelnen Komponenten achten. Während des Gebrauches, mit Molybdändisulfidfett (MoS<sub>2</sub>) nachschmieren.

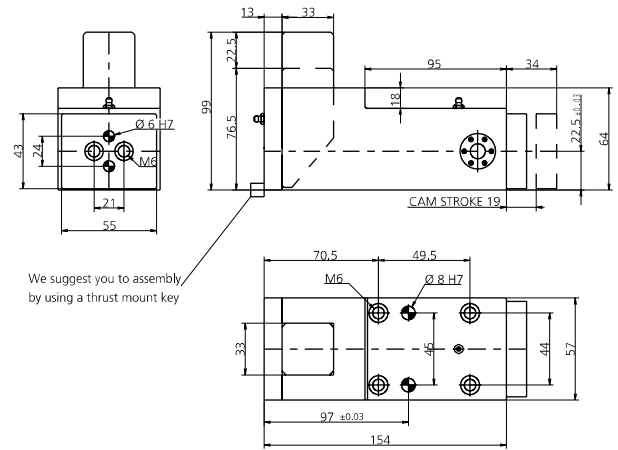
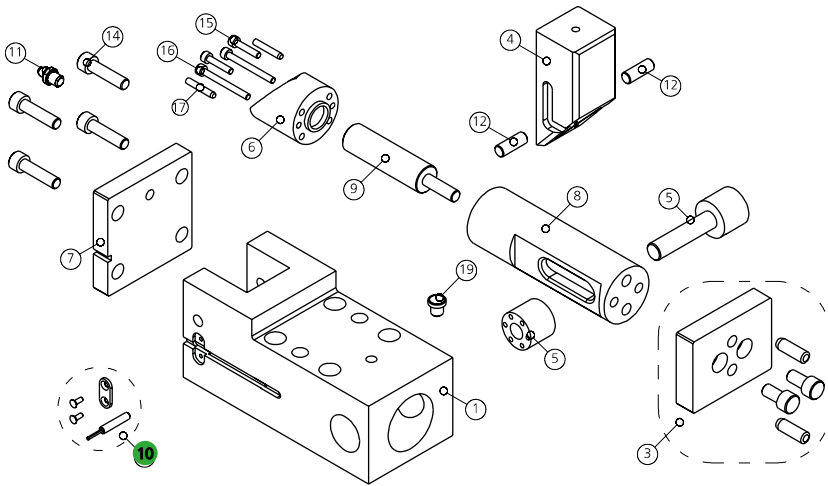
- EN** **Attention:** Undertake reassembly or maintenance work only when the cam unit is in its basic position.
1. Take off the gas cylinder by removing the screws "A" as shown.
  2. Take off the gas spring after removing the screws "B" and the slide "C".
  3. Check the components.
  4. Reassemble carefully using grease with disulfide molybdeno (MoS<sub>2</sub>). The use of this grease is recommended by Newstark.
  5. Ensure the correct positioning of the individual components. During use lubricate with grease with disulfide molybdeno (MoS<sub>2</sub>).

- FR** **Attention:** S'assurer d'abord que la came est dans sa position normale avant d'effectuer tout travail de démontage ou de maintenance.
1. Retirer le cylindres à gaz en retirant les vis "A" comme indiqué.
  2. Enlever les vis "B", retirer la glissière "C" et retirer le ressort à gaz.
  3. Effectuer les contrôles.
  4. Remonter soigneusement en lubrifiant avec de la graisse au bisulfure de molybdène (MoS<sub>2</sub>). Newstark recommande l'utilisation de cette graisse.
  5. S'assurer que les différents éléments sont correctement repositionnés. Lubrifier avec de la graisse au bisulfure de molybdène (MoS<sub>2</sub>).

# 0144.0100 - CAM MAS100

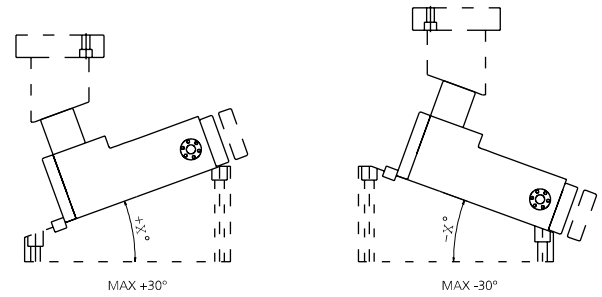
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **100 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **135 daN**  
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **3000 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE



| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0044.0100</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                                      | 1        |
| 003  | <b>8014.4244.0100</b>         | KIT PORTA PUNZONE / KIT PUNCH HOLDER / KIT TRÄGERPLATTE                    | 1*OPTION |
| 004  | <b>8008.0044.0100</b>         | CUNEO / WEDGE / DRUCKKEIL  | 1        |
| 005  | <b>8017.4244.0100</b>         | PERNO DI GUIDA / GUIDE PIN / FÜHRUNGSSTIFTE                                | 1        |
| 006  | <b>8007.0044.0100</b>         | SLITTA / SLIDER / LAGERKEIL  | 1        |
| 007  | <b>8002.0044.0100</b>         | FLANGIA POSTERIORE / REAR FLANGE   | 1        |
| 008  | <b>8018.1120.0905.350.001</b> | PERNO CENTRALE / CENTRAL PIN / HAUPTSTIFT                                  | 1        |
| 009  | <b>9000.0020.0015.001</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER                 | 1        |
| 010  | <b>8107.0144.0100.001</b>     | KIT SENSORE DI SICUREZZA / SECURITY SENSOR KIT / KIT SENSOR FÜR SICHERHEIT | 1*OPTION |
| 011  | <b>9006.001</b>               | INGRASSATORE / NIPPLE / SCHMIERUNG   | 1        |
| 012  | <b>8005.0150.0150.060.001</b> | PERNO / PIN / STIFT  | 2        |
| 014  | <b>9007.08.025.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X25  | 4        |
| 015  | <b>9007.04.016.129.1.4762</b> | VITE / SCREW / SCHRAUBE M4X16  | 2        |
| 016  | <b>9007.04.030.129.1.4762</b> | VITE / SCREW / SCHRAUBE M4X30  | 2        |
| 017  | <b>9028.040.010.8735</b>      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D4X10                         | 2        |
| 019  | <b>9006.004</b>               | INGRASSATORE / NIPPLE / SCHMIERUNG   | 1        |

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



010 (8107) SENSORE / SENSOR / SENSOR



**10** PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0144.0100** OPTION CODE **8014.4244.0100**



# 0144.0150 - CAM MAS150

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **150 daN**

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **180 daN**

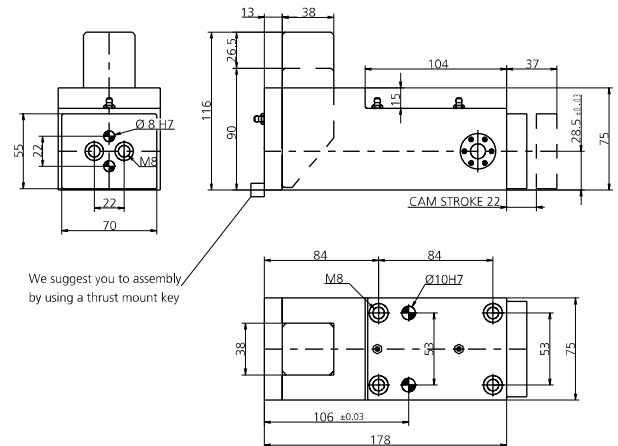
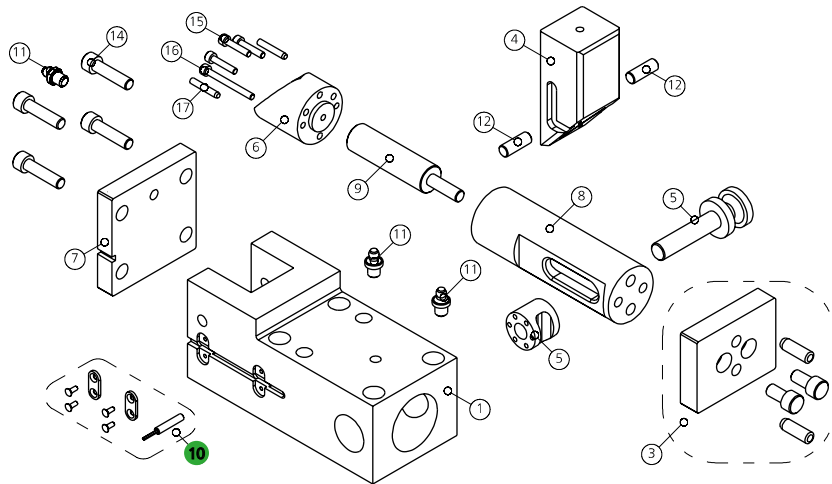
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **5000 daN**

CUTTING MAX FORCE

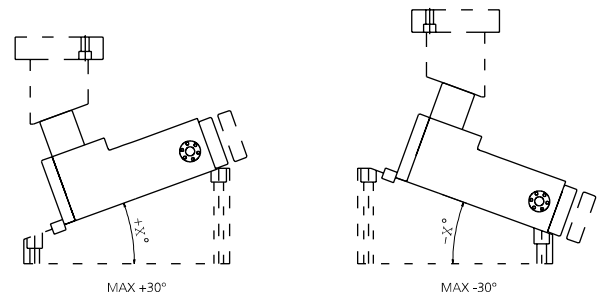
MAXIMALE SCHNITTKRAFT

EFFORT MAXI DÉCOUPE



| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0044.0150</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                                      | 1        |
| 003  | <b>8014.4244.0150</b>         | KIT PORTA PUNZONE / KIT PUNCH HOLDER / KIT TRÄGERPLATTE                    | 1*OPTION |
| 004  | <b>8008.0044.0150</b>         | CUNEO / WEDGE / DRUCKKEIL  | 1        |
| 005  | <b>8017.4244.0150</b>         | PERNO DI GUIDA / GUIDE PIN / FÜHRUNGSTIFTE                                 | 1        |
| 006  | <b>8007.0044.0150</b>         | SLITTA / SLIDER / LAGERKEIL  | 1        |
| 007  | <b>8002.0044.0150</b>         | FLANGIA POSTERIORE / REAR FLANGE   | 1        |
| 008  | <b>8018.1220.1070.400.001</b> | PERNO CENTRALE / CENTRAL PIN / HAUPTSTIFT                                  | 1        |
| 009  | <b>9000.0025.0019.001</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER                 | 1        |
| 010  | <b>8107.0144.0150.001</b>     | KIT SENSORE DI SICUREZZA / SECURITY SENSOR KIT / KIT SENSOR FÜR SICHERHEIT | 1*OPTION |
| 011  | <b>9006.002</b>               | INGRASSATORE / NIPPLE / SCHMIERUNG   | 3        |
| 012  | <b>8005.0220.0220.080.001</b> | PERNO / PIN / STIFT  | 2        |
| 014  | <b>9007.10.025.129.1.4762</b> | VITE / SCREW / SCHRAUBE M10X25   | 4        |
| 015  | <b>9007.04.020.129.1.4762</b> | VITE / SCREW / SCHRAUBE M4X20  | 3        |
| 016  | <b>9007.04.040.129.1.4762</b> | VITE / SCREW / SCHRAUBE M4X40  | 1        |
| 017  | <b>9028.040.010.8735</b>      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D4X10                         | 2        |

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



010 (8107) SENSORE / SENSOR / SENSOR



**10** PATENT PENDING

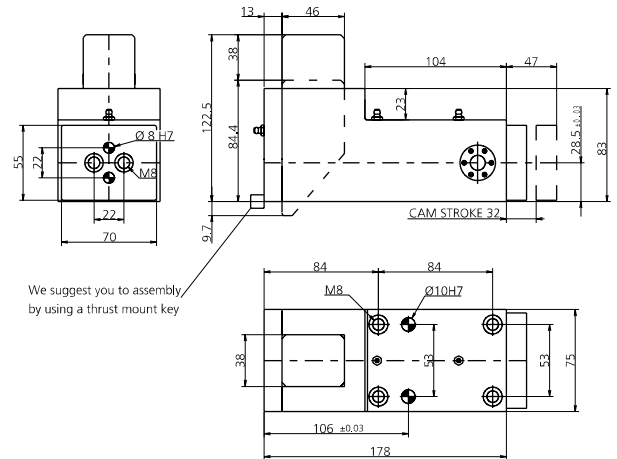
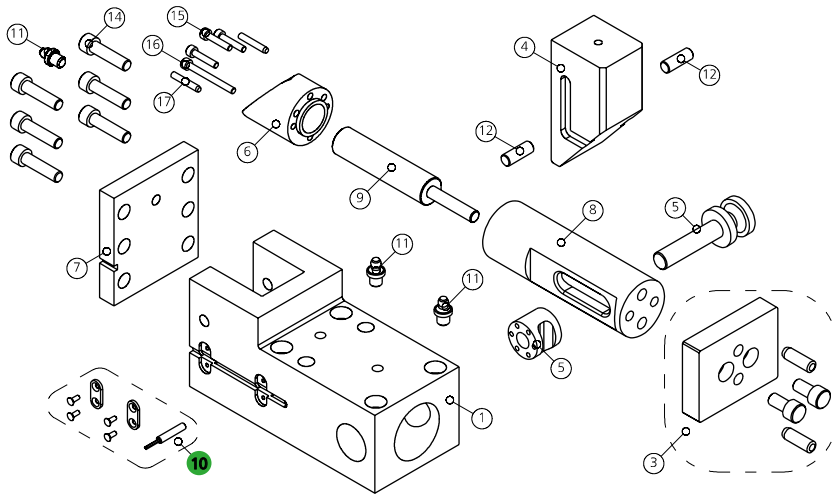
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0144.0150** OPTION CODE **8014.4244.0150**

# 0144.S150 - CAM MAS150S

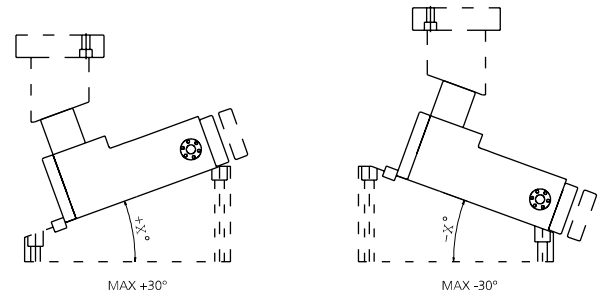
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **150 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **180 daN**  
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **5000 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE



| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0044.S150</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                                      | 1        |
| 003  | <b>8014.4244.0150</b>         | KIT PORTA PUNZONE / KIT PUNCH HOLDER / KIT TRÄGERPLATTE                    | 1*OPTION |
| 004  | <b>8008.0044.S150</b>         | CUNEO / WEDGE / DRUCKKEIL  | 1        |
| 005  | <b>8017.4244.0150</b>         | PERNO DI GUIDA / GUIDE PIN / FÜHRUNGSSTIFTE                                | 1        |
| 006  | <b>8007.0044.S150</b>         | SLITTA / SLIDER / LAGERKEIL  | 1        |
| 007  | <b>8002.0044.S150</b>         | FLANGIA POSTERIORE / REAR FLANGE   | 1        |
| 008  | <b>8018.1220.1070.400.002</b> | PERNO CENTRALE / CENTRAL PIN / HAUPTSTIFT                                  | 1        |
| 009  | <b>9000.0038.0019.004</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER                 | 1        |
| 010  | <b>8107.0144.S150.001</b>     | KIT SENSORE DI SICUREZZA / SECURITY SENSOR KIT / KIT SENSOR FÜR SICHERHEIT | 1*OPTION |
| 011  | <b>9006.002</b>               | INGRASSATORE / NIPPLE / SCHMIERUNG   | 3        |
| 012  | <b>8005.0220.0220.080.001</b> | PERNO / PIN / STIFT  | 2        |
| 014  | <b>9007.10.025.129.1.4762</b> | VITE / SCREW / SCHRAUBE M10X25   | 6        |
| 015  | <b>9007.04.020.129.1.4762</b> | VITE / SCREW / SCHRAUBE M4X20  | 3        |
| 016  | <b>9007.04.040.129.1.4762</b> | VITE / SCREW / SCHRAUBE M4X40  | 1        |
| 017  | <b>9028.040.010.8735</b>      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D4X10                         | 2        |

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



010 (8107) SENSORE / SENSOR / SENSOR



**10** PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0144.S150** OPTION CODE **8014.4244.0150**

# 0144.0240 - CAM MAS240

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **240 daN**

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **270 daN**

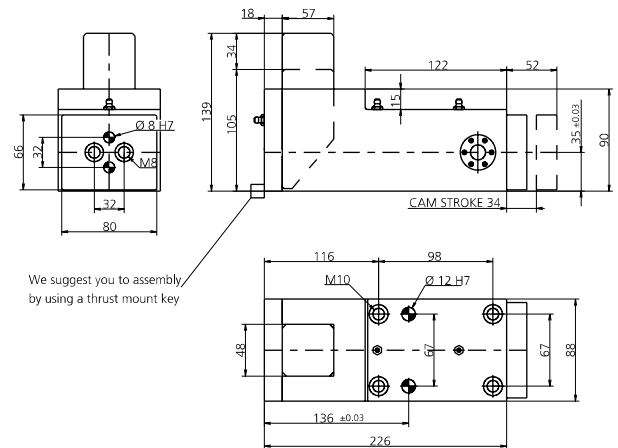
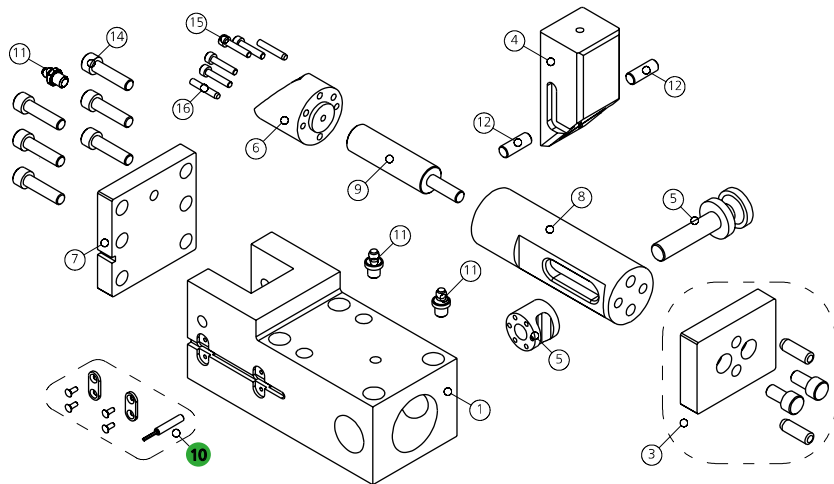
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **8000 daN**

CUTTING MAX FORCE

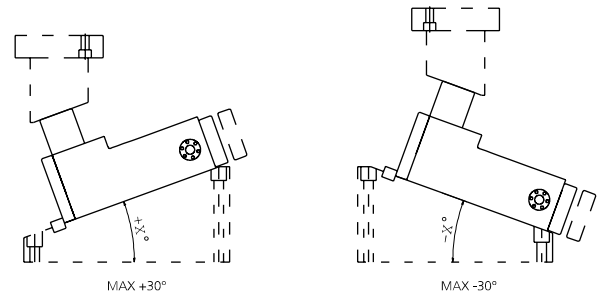
MAXIMALE SCHNITTKRAFT

EFFORT MAXI DÉCOUPE



| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0044.0240</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                                      | 1        |
| 003  | <b>8014.4244.0240</b>         | KIT PORTA PUNZONE / KIT PUNCH HOLDER / KIT TRÄGERPLATTE                    | 1*OPTION |
| 004  | <b>8008.0044.0240</b>         | CUNEO / WEDGE / DRUCKKEIL  | 1        |
| 005  | <b>8017.4244.0240</b>         | PERNO DI GUIDA / GUIDE PIN / FÜHRUNGSTIFTE                                 | 1        |
| 006  | <b>8007.0044.0240</b>         | SLITTA / SLIDER / LAGERKEIL  | 1        |
| 007  | <b>8002.0044.0240</b>         | FLANGIA POSTERIORE / REAR FLANGE   | 1        |
| 008  | <b>8018.1524.1344.500.001</b> | PERNO CENTRALE / CENTRAL PIN / HAUPTSTIFT                                  | 1        |
| 009  | <b>9000.0038.0025.001</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER                 | 1        |
| 010  | <b>8107.0144.0240.001</b>     | KIT SENSORE DI SICUREZZA / SECURITY SENSOR KIT / KIT SENSOR FÜR SICHERHEIT | 1*OPTION |
| 011  | <b>9006.002</b>               | INGRASSATORE / NIPPLE / SCHMIERUNG   | 3        |
| 012  | <b>8005.0235.0235.100.001</b> | PERNO / PIN / STIFT  | 2        |
| 014  | <b>9007.10.035.129.1.4762</b> | VITE / SCREW / SCHRAUBE M10X35   | 6        |
| 015  | <b>9007.05.020.129.1.4762</b> | VITE / SCREW / SCHRAUBE M5X20  | 4        |
| 016  | <b>9028.050.016.8735</b>      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D5X16                         | 2        |

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



010 (8107) SENSORE / SENSOR / SENSOR



**10** PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0144.0240** OPTION CODE **8014.4244.0240**



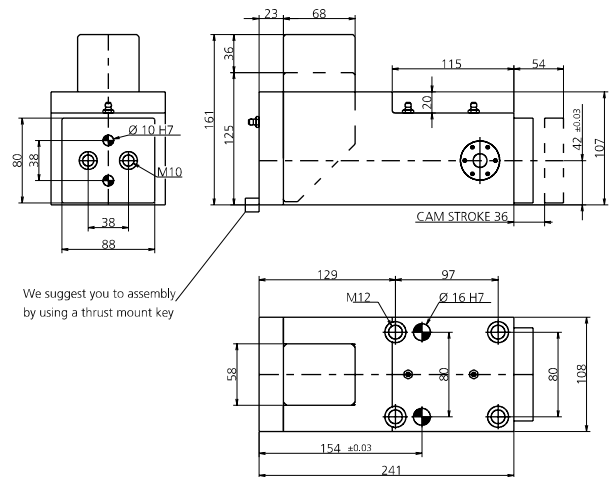
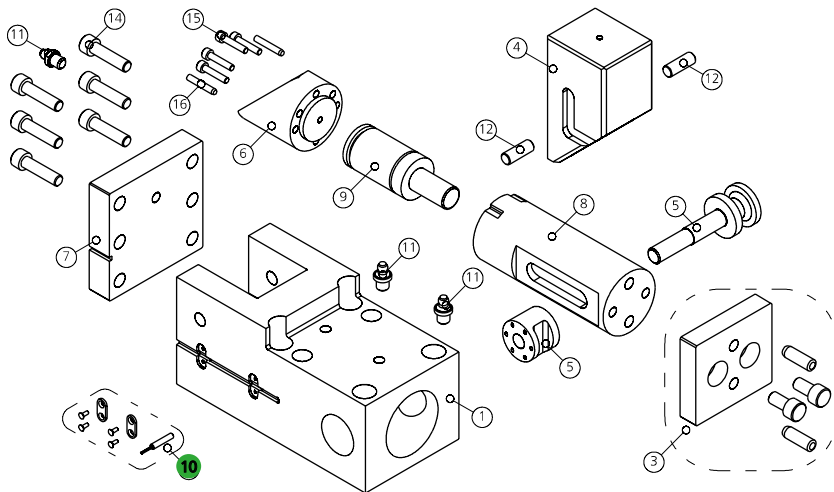
# 0144.0600 - CAM MAS600

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **600 daN**  
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

SFORZO MAX TRANCIO **13000 daN**

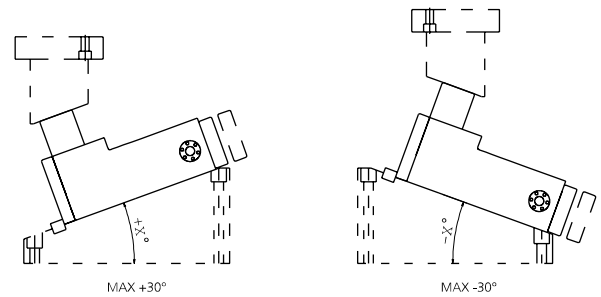
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **880 daN**  
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

CUTTING MAX FORCE  
MAXIMALE SCHNITTKRAFT  
EFFORT MAXI DÉCOUPE



| POS. | CODE                   | DESCRIPTION  | Q.TY     |
|------|------------------------|--|----------|
| 001  | 8000.0044.0600         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                                      | 1        |
| 003  | 8014.4244.0600         | KIT PORTA PUNZONE / KIT PUNCH HOLDER / KIT TRÄGERPLATTE                    | 1*OPTION |
| 004  | 8008.0044.0600         | CUNEO / WEDGE / DRUCKKEIL  | 1        |
| 005  | 8017.4244.0600         | PERNO DI GUIDA / GUIDE PIN / FÜHRUNGSTIFTE                                 | 1        |
| 006  | 8007.0044.0600         | SLITTA / SLIDER / LAGERKEIL  | 1        |
| 007  | 8002.0044.0600         | FLANGIA POSTERIORE / REAR FLANGE   | 1        |
| 008  | 8018.1500.1275.600.001 | PERNO CENTRALE / CENTRAL PIN / HAUPTSTIFT                                  | 1        |
| 009  | 9000.0038.0038.001     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER                 | 1        |
| 010  | 8107.0144.0600.001     | KIT SENSORE DI SICUREZZA / SECURITY SENSOR KIT / KIT SENSOR FÜR SICHERHEIT | 1*OPTION |
| 011  | 9006.003               | INGRASSATORE / NIPPLE / SCHMIERUNG   | 3        |
| 012  | 8005.0295.0295.120.001 | PERNO / PIN / STIFT  | 2        |
| 014  | 9007.12.040.129.1.4762 | VITE / SCREW / SCHRAUBE M12X40   | 6        |
| 015  | 9007.06.025.129.1.4762 | VITE / SCREW / SCHRAUBE M6X25  | 4        |
| 016  | 9028.060.020.8735      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D6X20                         | 2        |

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



010 (8107) SENSORE / SENSOR / SENSOR



10 PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0144.0600** OPTION CODE **8014.4244.0600**

# 0144.S600 - CAM MAS600S

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE  
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

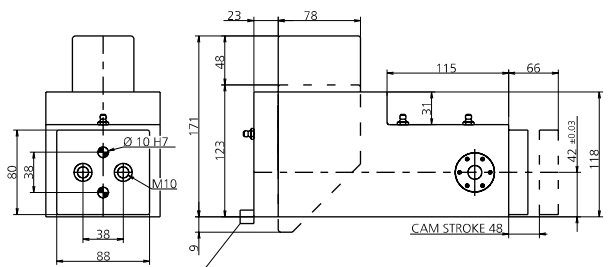
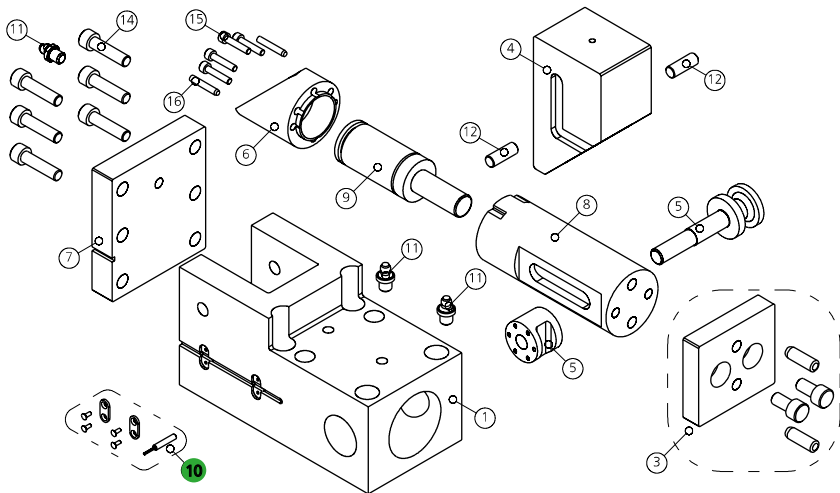
**600 daN**

SFORZO MAX TRANCIO **13000 daN**

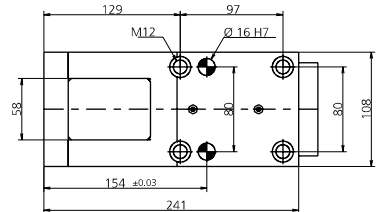
CUTTING MAX FORCE  
MAXIMALE SCHNITTKRAFT  
EFFORT MAXI DÉCOUPE

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION  
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

**880 daN**

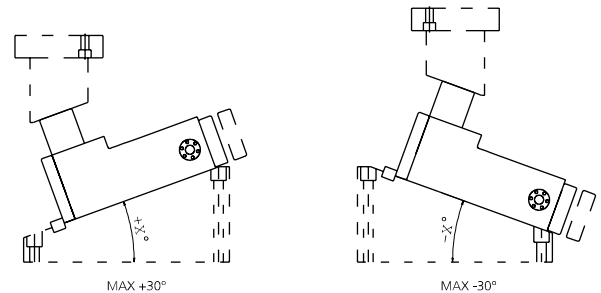


We suggest you to assembly by using a thrust mount key



| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0044.S600</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                                      | 1        |
| 003  | <b>8014.4244.0600</b>         | KIT PORTA PUNZONE / KIT PUNCH HOLDER / KIT TRÄGERPLATTE                    | 1*OPTION |
| 004  | <b>8008.0044.S600</b>         | CUNEO / WEDGE / DRUCKKEIL  | 1        |
| 005  | <b>8017.4244.0600</b>         | PERNO DI GUIDA / GUIDE PIN / FÜHRUNGSSTIFTE                                | 1        |
| 006  | <b>8007.0044.S600</b>         | SLITTA / SLIDER / LAGERKEIL  | 1        |
| 007  | <b>8002.0044.S600</b>         | FLANGIA POSTERIORE / REAR FLANGE   | 1        |
| 008  | <b>8018.1500.1275.600.002</b> | PERNO CENTRALE / CENTRAL PIN / HAUPTSTIFT                                  | 1        |
| 009  | <b>9000.0050.0038.001</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER                 | 1        |
| 010  | <b>8107.0144.S600.001</b>     | KIT SENSORE DI SICUREZZA / SECURITY SENSOR KIT / KIT SENSOR FÜR SICHERHEIT | 1*OPTION |
| 011  | <b>9006.003</b>               | INGRASSATORE / NIPPLE / SCHMIERUNG   | 3        |
| 012  | <b>8005.0295.0295.120.001</b> | PERNO / PIN / STIFT  | 2        |
| 014  | <b>9007.12.040.129.1.4762</b> | VITE / SCREW / SCHRAUBE M12X40   | 6        |
| 015  | <b>9007.06.025.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X25  | 4        |
| 016  | <b>9028.060.020.8735</b>      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D6X20                         | 2        |

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



010 (8107) SENSORE / SENSOR / SENSOR



**10** PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0144.S600** OPTION CODE **8014.4244.0600**



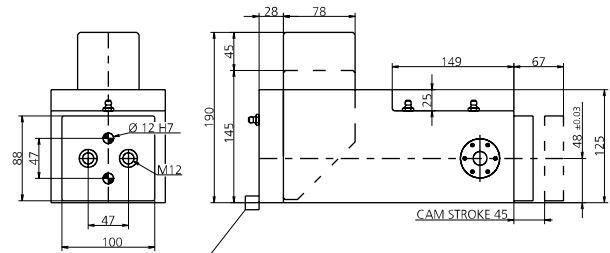
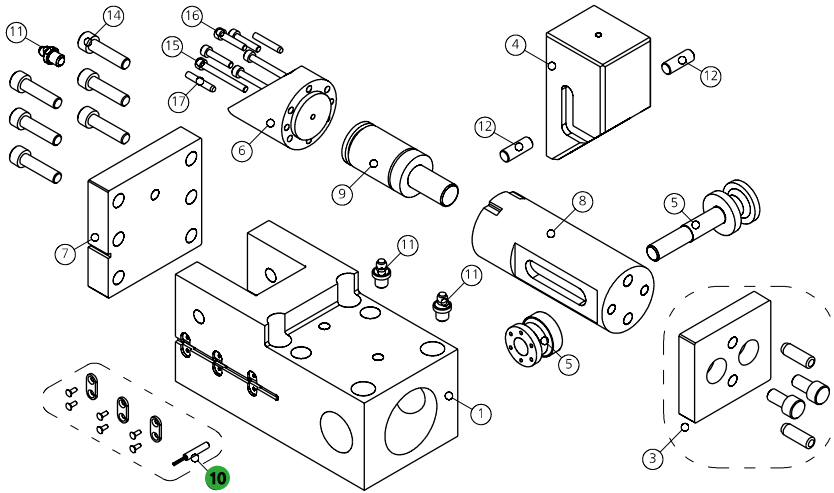
# 0144.0850 - CAM MAS850

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **850 daN**  
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

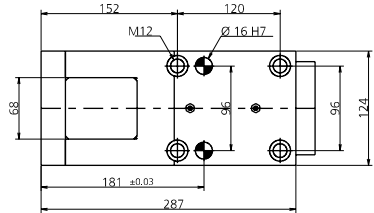
SFORZO MAX TRANCIO **19000 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1360 daN**  
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION

CUTTING MAX FORCE  
MAXIMALE SCHNITTKRAFT  
EFFORT MAXI DÉCOUPE

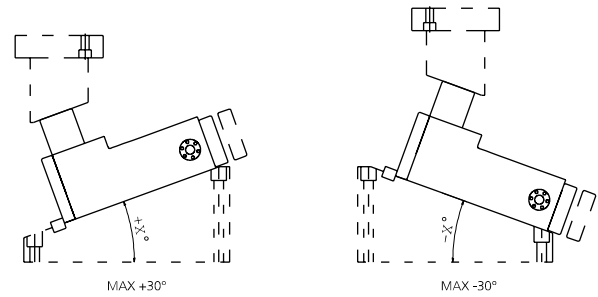


We suggest you to assembly by using a thrust mount key



| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0044.0850</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                                      | 1        |
| 003  | <b>8014.4244.0850</b>         | KIT PORTA PUNZONE / KIT PUNCH HOLDER / KIT TRÄGERPLATTE                    | 1*OPTION |
| 004  | <b>8008.0044.0850</b>         | CUNEO / WEDGE / DRUCKKEIL  | 1        |
| 005  | <b>8017.4244.0850</b>         | PERNO DI GUIDA / GUIDE PIN / FÜHRUNGSTIFTE                                 | 1        |
| 006  | <b>8007.0044.0850</b>         | SLITTA / SLIDER / LAGERKEIL  | 1        |
| 007  | <b>8002.0044.0850</b>         | FLANGIA POSTERIORE / REAR FLANGE   | 1        |
| 008  | <b>8018.1845.1575.700.001</b> | PERNO CENTRALE / CENTRAL PIN / HAUPTSTIFT                                  | 1        |
| 009  | <b>9000.0050.0045.001</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER                 | 1        |
| 010  | <b>8107.0144.0850.001</b>     | KIT SENSORE DI SICUREZZA / SECURITY SENSOR KIT / KIT SENSOR FÜR SICHERHEIT | 1*OPTION |
| 011  | <b>9006.003</b>               | INGRASSATORE / NIPPLE / SCHMIERUNG   | 3        |
| 012  | <b>8005.0295.0295.120.001</b> | PERNO / PIN / STIFT  | 2        |
| 014  | <b>9007.12.050.129.1.4762</b> | VITE / SCREW / SCHRAUBE M12X50   | 6        |
| 015  | <b>9007.06.070.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X70  | 3        |
| 016  | <b>9007.06.030.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X30  | 3        |
| 017  | <b>9028.060.020.8735</b>      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D6X20                         | 2        |

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



010 (8107) SENSORE / SENSOR / SENSOR



**10** PATENT PENDING

# 0144.S850 - CAM MAS850S

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **850 daN**

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1440 daN**

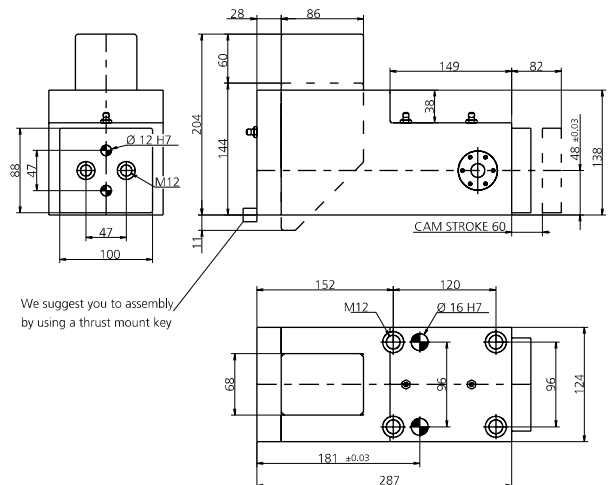
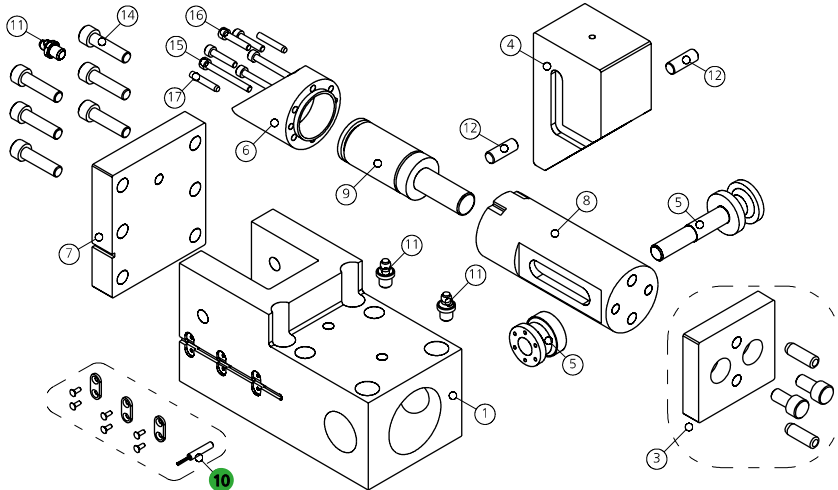
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **19000 daN**

CUTTING MAX FORCE

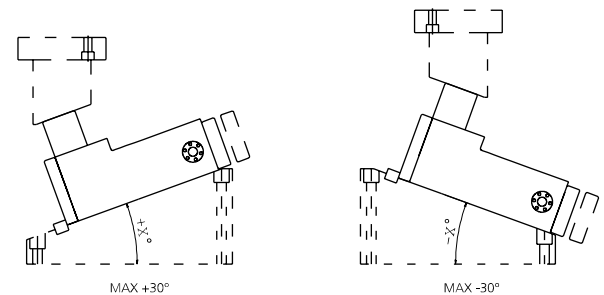
MAXIMALE SCHNITTKRAFT

EFFORT MAXI DÉCOUPE



| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0044.S850</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                                      | 1        |
| 003  | <b>8014.4244.0850</b>         | KIT PORTA PUNZONE / KIT PUNCH HOLDER / KIT TRÄGERPLATTE                    | 1*OPTION |
| 004  | <b>8008.0044.S850</b>         | CUNEO / WEDGE / DRUCKKEIL  | 1        |
| 005  | <b>8017.4244.0850</b>         | PERNO DI GUIDA / GUIDE PIN / FÜHRUNGSSTIFTE                                | 1        |
| 006  | <b>8007.0044.S850</b>         | SLITTA / SLIDER / LAGERKEIL  | 1        |
| 007  | <b>8002.0044.S850</b>         | FLANGIA POSTERIORE / REAR FLANGE   | 1        |
| 008  | <b>8018.1845.1575.700.002</b> | PERNO CENTRALE / CENTRAL PIN / HAUPTSTIFT                                  | 1        |
| 009  | <b>9000.0063.0045.001</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER                 | 1        |
| 010  | <b>8107.0144.S850.001</b>     | KIT SENSORE DI SICUREZZA / SECURITY SENSOR KIT / KIT SENSOR FÜR SICHERHEIT | 1*OPTION |
| 011  | <b>9006.003</b>               | INGRASSATORE / NIPPLE / SCHMIERUNG   | 3        |
| 012  | <b>8005.0295.0295.120.001</b> | PERNO / PIN / STIFT  | 2        |
| 014  | <b>9007.12.050.129.1.4762</b> | VITE / SCREW / SCHRAUBE M12X50   | 6        |
| 015  | <b>9007.06.070.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X70  | 3        |
| 016  | <b>9007.06.030.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X30  | 3        |
| 017  | <b>9028.060.020.8735</b>      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D6X20                         | 2        |

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



010 (8107) SENSORE / SENSOR / SENSOR



**10** PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0144.S850** OPTION CODE **8014.4244.0850**



# CAM MAS

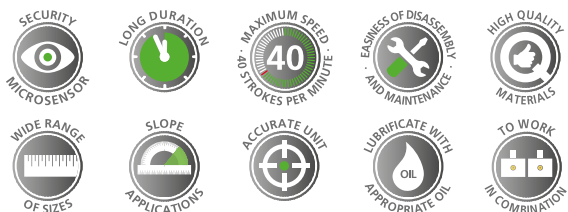


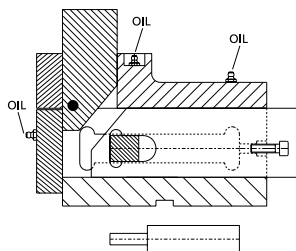
## CAM MASC

- IT** Camma meccanica di potenza fino a 20'000 daN con un ritorno garantito mediante due molle ad azoto, su cui vengono applicati gli accessori o gli acciai per eseguire le lavorazioni desiderate. Il moto è trasferito mediante cunei inclinati ed è dotato di un sistema antirotativo. Può essere montata in posizione orizzontale o inclinata (previo confronto con l'ufficio tecnico Newstark). Possibili applicazioni: adatta a lavori generalmente di tranciatura, foratura e piegatura.
- EN** Mechanical cam with power supply up to 20'000 daN with return by nitrogen spring, on which are applied accessories or steel, to perform required work. The motion is transferred through wedges inclined and in which there is an anti-rotation system. Can be fitted horizontally or inclined (after comparison with Newstark's technical department). Means of application: generally suitable for shearing, drilling and bending work.
- DE** Mechanische Stanzeinheit Kraft bis 20'000 daN mit einem Rücklauf der durch Stickstoffedern sichergestellt wird. An der Schubstange kann Zubehör je nach Bedarf angebracht werden. Bei diesem Modell, wird die Bewegung durch Keile umgesetzt. Durch die Art der Schubstange wird die Rotationsbewegung so gering wie möglich gehalten. Diese Einheit ist für die Montage von oben ausgelegt. Die Einheiten können (nach Abstimmung mit technischen Büro von Newstark) horizontal oder geneigt montiert werden. Mögliche Anwendungen: Stanzen, Biegen und Prägen.
- FR** Came mécanique d'une puissance allant jusqu'à 20'000 daN avec retour garanti au moyen de deux ressorts à azote, sur lesquels sont appliqués les accessoires ou les aciers pour réaliser les usinages souhaités. Le mouvement est transmis par des cales inclinées et est équipé d'un système anti-rotation. Elle peut être montée en position horizontale ou inclinée (après discussion avec le bureau technique Newstark). Applications possibles: convient pour les travaux de découpage, de perçage et de pliage.



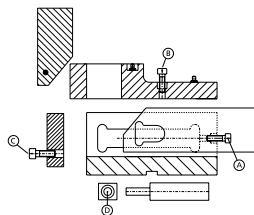
### PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE





- ATTENZIONE:**  
per eseguire la prova manualmente togliere il cilindro come indicato.
- ATTENTION:**  
in order to manually perform the test, extract the cylinder as indicated.
- ACHTUNG:**  
Stickstoffzylinder verbaut, Schieber nur in Grundstellung öffnen.
- ATTENTION:**  
pour effectuer le test, retirer manuellement le cylindre comme indiqué.

SMONTAGGIO PRODOTTO MASC / PRODUCT DISASSEMBLY MASC / DEMONTAGE DES PRODUKTES MASC / DÉMONTAGE PRODUIT MASC



- ATTENZIONE: cilindro a gas in pressione.**
- ATTENTION:** gas cylinder under pressure.
- ACHTUNG:** Gasdruckfeder steht unter hohem Druck.
- ATTENTION:** cylindre à gaz sous pression.

- IT** **Attenzione: Assicurarsi che la camma sia nella sua posizione normale prima di eseguire qualsiasi lavoro di smontaggio o manutenzione.**
1. Togliere i cilindri a gas rimuovendo le viti "A" come indicato.
  2. Togliere la piastra di testa rimuovendo le viti "B" come indicato.
  3. Togliere la piastra posteriore rimuovendo le viti "C" come indicato in modo da togliere il cuneo.
  4. Togliere i blocchetti reggimolla rimuovendo le viti "D" come indicato in modo da togliere la slitta.
  5. Eseguire le verifiche.
  6. Rimontare con cura lubrificando con grasso bisolfuro di Molibdeno (MoS<sub>2</sub>). L'uso di questo grasso viene consigliato da Newstark.
  7. Assicurare il corretto riposizionamento dei singoli componenti. Lubrificare durante l'uso con grasso bisolfuro di Molibdeno (MoS<sub>2</sub>).

- EN** **Attention: Undertake reassembly or maintenance work only when the cam unit is in its basic position.**
1. Take off the gas cylinder by removing the screws "A" as shown.
  2. Take off the cover by removing the screws "B" as shown.
  3. Take off the rear flange by removing the screws "C" as shown in order to remove the wedge.
  4. Take off the springs holder block removing the screws "D" as shown in order to remove the slider.
  5. Check the components.
  6. Reassemble carefully using grease with disulfide molybdeno (MoS<sub>2</sub>). The use of this grease is recommended by Newstark.
  7. Ensure the correct positioning of the individual components. During use lubricate with grease with disulfide molybdeno (MoS<sub>2</sub>).

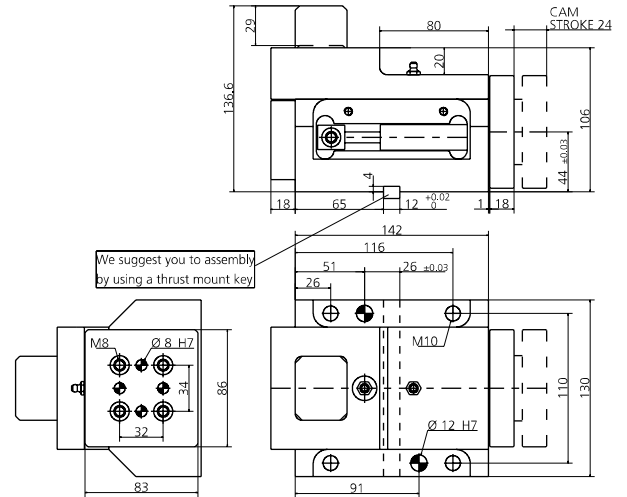
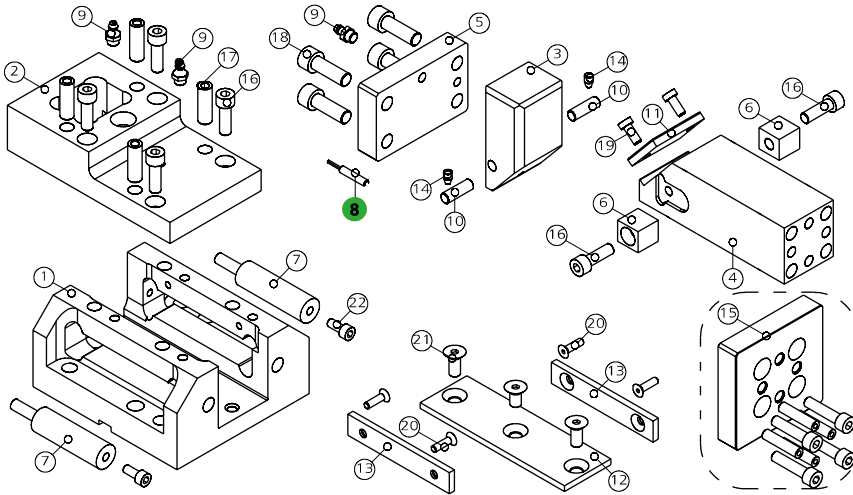
- DE** **Achtung: Wartungs- und Demontearbeiten nur in Grundstellung der Stanzeinheit vornehmen.**
1. Schrauben "A" entfernen um die Gasdruckfedern herauszuziehen.
  2. Schrauben "B" entfernen um die Kopfplatte herunter zu nehmen.
  3. Schrauben "C" entfernen um die Heckplatte herausziehen.
  4. Schrauben "D" entfernen um die Federlagerblöcke zu lösen.
  5. Komponenten prüfen.
  6. Montage in umgekehrter Reihenfolge unter Verwendung von Molybdändisulfidfett (MoS<sub>2</sub>). Die Verwendung dieses Fett wird durch Newstark empfohlen.
  7. Auf richtigen Sitz der einzelnen Komponenten achten. Während des Gebrauches, mit Molybdändisulfidfett (MoS<sub>2</sub>) nachschmieren.

- FR** **Attention: S'assurer d'abord que la came est dans sa position normale avant d'effectuer tout travail de démontage ou de maintenance.**
1. Retirer les cylindres à gaz en retirant les vis "A" comme indiqué.
  2. Retirer la plaque de tête en retirant les vis "B" comme indiqué.
  3. Retirer la plaque arrière en retirant les vis "C" comme indiqué afin d'enlever la cale.
  4. Retirer les blocs de support des ressorts en retirant les vis "D" comme indiqué afin d'enlever la glissière.
  5. Effectuer les contrôles.
  6. Remonter soigneusement en lubrifiant avec de la graisse au bisulfure de molybdène (MoS<sub>2</sub>). Newstark recommande l'utilisation de cette graisse.
  7. S'assurer que les différents éléments sont correctement repositionnés. Lubrifier avec de la graisse au bisulfure de molybdène (MoS<sub>2</sub>).

# 0145.0404 - CAM MASC400 S48

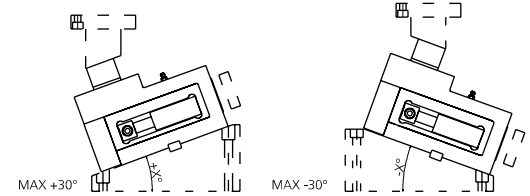
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **400 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **450 daN**  
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **8000 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE



| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0045.0404</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | <b>8010.4546.0404</b>         | COPERCHIO / COVER / KOPFPLATTE                                 | 1        |
| 003  | <b>8008.4546.0405</b>         | CUNEO / WEDGE / DRUCKKEIL                                      | 1        |
| 004  | <b>8007.4546.0404</b>         | SLITTA / SLIDER / LAGE   | 1        |
| 005  | <b>8002.4546.0404</b>         | FLANGIA POSTERIORE / REAR FLANGE / HINTERER FLANSCH            | 1        |
| 006  | <b>8026.0300.0200.180.001</b> | BLOCCHETTO REGGI MOLLA / SPRING HOLDER BLOCK / FEDERLAGERBLOCK | 2        |
| 007  | <b>9000.0025.0019.007</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 2        |
| 008  | <b>9003.0002</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 009  | <b>9006.002</b>               | INGRASSATORE / NIPPLE / SCHMIERUNG                             | 3        |
| 010  | <b>8005.0250.0250.080.001</b> | PERNO / PIN / STIFT  | 2        |
| 011  | <b>8012.0470.0380.060.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 1        |
| 012  | <b>8012.1420.0460.050.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 1        |
| 013  | <b>9012.1000.0180.050.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 2        |
| 014  | <b>9020.06.10.E090</b>        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 2        |
| 015  | <b>8014.4546.0404</b>         | KIT PORTA PUNZONE / KIT PUNCH HOLDER / KIT TRÄGERPLATTE        | 1*OPTION |
| 016  | <b>9007.08.020.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X20                                  | 6        |
| 017  | <b>9028.100.030.8735</b>      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D10X30            | 4        |
| 018  | <b>9007.10.030.129.1.4762</b> | VITE / SCREW / SCHRAUBE M10X30                                 | 4        |
| 019  | <b>9007.06.010.088.1.9327</b> | VITE / SCREW / SCHRAUBE M6X10                                  | 2        |
| 020  | <b>9007.06.012.129.1.5933</b> | VITE / SCREW / SCHRAUBE M6X12                                  | 4        |
| 021  | <b>9007.08.012.129.1.5933</b> | VITE / SCREW / SCHRAUBE M8X12                                  | 3        |
| 022  | <b>9007.06.012.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X12                                  | 2        |

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (9003) SENSORE / SENSOR / SENSOR



**8** PATENT PENDING

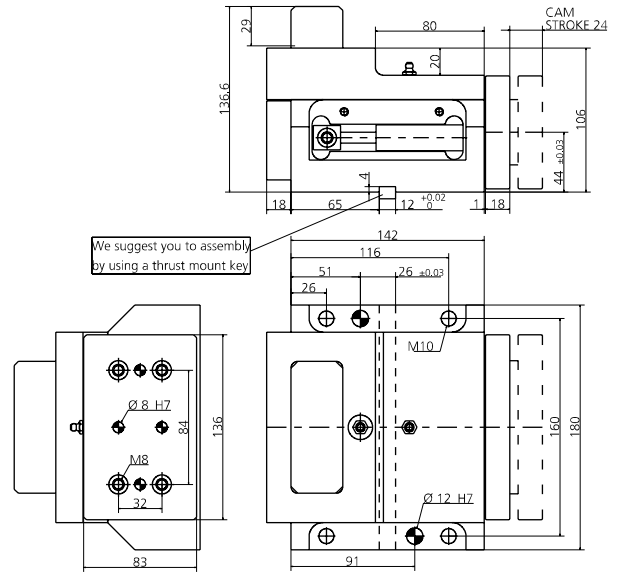
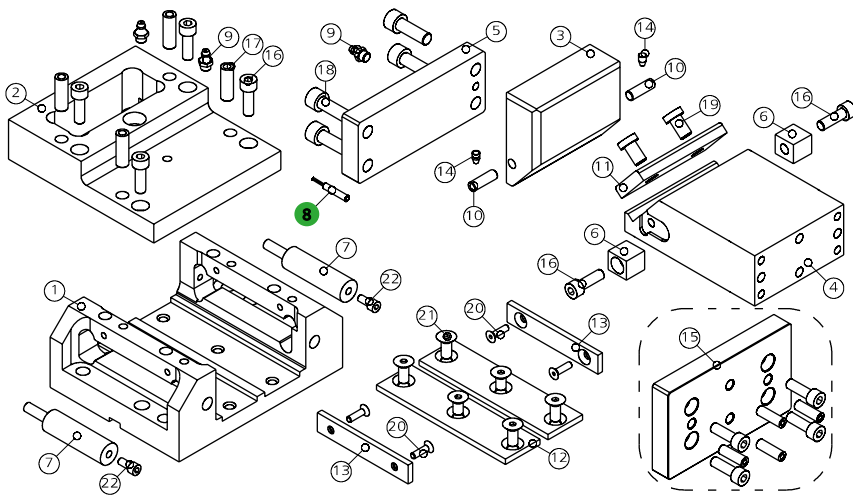
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0145.0404** OPTION CODE **8014.4546.0404**

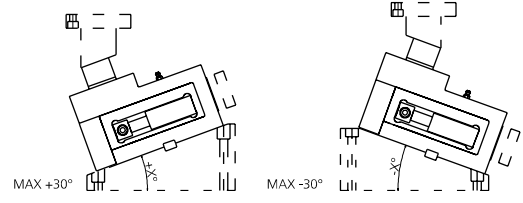


# 0145.0409 - CAM MASC400 S98

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **400 daN** SFORZO MAX TRANCIO **8000 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **450 daN** CUTTING MAX FORCE  
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE



POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (9003) SENSORE / SENSOR / SENSOR



**8** PATENT PENDING

| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0045.0409</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | <b>8010.4546.0409</b>         | COPERCHIO / COVER / KOPFPLATTE                                 | 1        |
| 003  | <b>8008.4546.0910</b>         | CUNEO / WEDGE / DRUCKKEIL                                      | 1        |
| 004  | <b>8007.4546.0409</b>         | SLITTA / SLIDER / LAGE   | 1        |
| 005  | <b>8002.4546.0409</b>         | FLANGIA POSTERIORE / REAR FLANGE / HINTERER FLANSCH            | 1        |
| 006  | <b>8026.0300.0200.180.001</b> | BLOCCHETTO REGGI MOLLA / SPRING HOLDER BLOCK / FEDERLAGERBLOCK | 2        |
| 007  | <b>9000.0025.0019.007</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 2        |
| 008  | <b>9003.0002</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 009  | <b>9006.002</b>               | INGRASSATORE / NIPPLE / SCHMIERUNG                             | 3        |
| 010  | <b>8005.0250.0250.080.001</b> | PERNO / PIN / STIFT  | 2        |
| 011  | <b>8012.0920.0380.100.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 1        |
| 012  | <b>8012.1420.0380.050.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 2        |
| 013  | <b>9012.1000.0180.050.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 2        |
| 014  | <b>9020.06.10.E090</b>        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 2        |
| 015  | <b>8014.4546.0409</b>         | KIT PORTA PUNZONE / KIT PUNCH HOLDER / KIT TRÄGERPLATTE        | 1*OPTION |
| 016  | <b>9007.08.020.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X20                                  | 6        |
| 017  | <b>9028.100.030.8735</b>      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D10X30            | 4        |
| 018  | <b>9007.10.030.129.1.4762</b> | VITE / SCREW / SCHRAUBE M10X30                                 | 4        |
| 019  | <b>9007.10.020.088.1.9327</b> | VITE / SCREW / SCHRAUBE M10X20                                 | 2        |
| 020  | <b>9007.06.012.129.1.5933</b> | VITE / SCREW / SCHRAUBE M6X12                                  | 4        |
| 021  | <b>9007.08.012.129.1.5933</b> | VITE / SCREW / SCHRAUBE M8X12                                  | 6        |
| 022  | <b>9007.06.012.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X12                                  | 2        |

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0145.0409** OPTION CODE **8014.4546.0409**

# 0145.0414 - CAM MASC400 S148

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE  
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

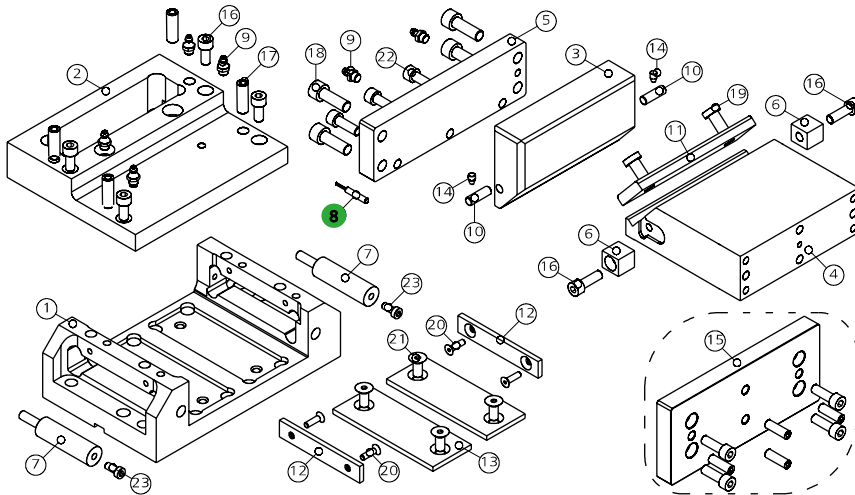
400 daN

SFORZO MAX TRANCIO 8000 daN

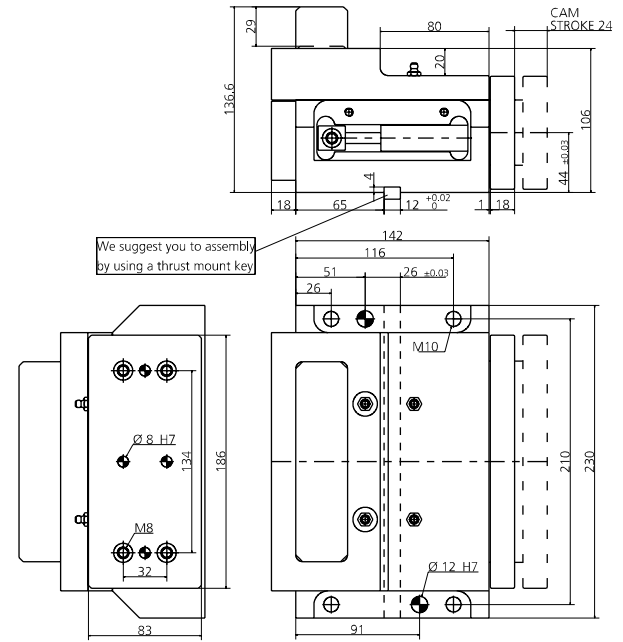
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION  
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

450 daN

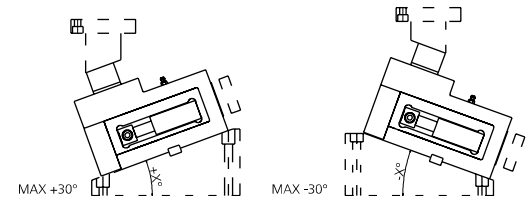
CUTTING MAX FORCE  
MAXIMALE SCHNITTKRAFT  
EFFORT MAXI DÉCOUPE



| POS. | CODE                   | DESCRIPTION  | Q.TY     |
|------|------------------------|--|----------|
| 001  | 8000.0045.0414         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | 8010.4546.0414         | COPERCHIO / COVER / KOPFPLATTE                                 | 1        |
| 003  | 8008.4546.1415         | CUNEO / WEDGE / DRUCKKEIL                                      | 1        |
| 004  | 8007.4546.0414         | SLITTA / SLIDER / LAGE   | 1        |
| 005  | 8002.4546.0414         | FLANGIA POSTERIORE / REAR FLANGE / HINTERER FLANSCH            | 1        |
| 006  | 8026.0300.0200.180.001 | BLOCCHETTO REGGI MOLLA / SPRING HOLDER BLOCK / FEDERLAGERBLOCK | 2        |
| 007  | 9000.0025.0019.007     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 2        |
| 008  | 9003.0002              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 009  | 9006.002               | INGRASSATORE / NIPPLE / SCHMIERUNG                             | 3        |
| 010  | 8005.0250.0250.080.001 | PERNO / PIN / STIFT  | 2        |
| 011  | 8012.1420.0380.100.001 | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 1        |
| 012  | 9012.1000.0180.050.001 | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 2        |
| 013  | 9012.1250.0480.050.001 | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 2        |
| 014  | 9020.06.10.E090        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 2        |
| 015  | 8014.4546.0414         | KIT PORTA PUNZONE / KIT PUNCH HOLDER / KIT TRÄGERPLATTE        | 1*OPTION |
| 016  | 9007.08.020.129.1.4762 | VITE / SCREW / SCHRAUBE M10X30                                 | 6        |
| 017  | 9028.100.030.8735      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D10X30            | 4        |
| 018  | 9007.10.030.129.1.4762 | VITE / SCREW / SCHRAUBE M10X25                                 | 4        |
| 019  | 9007.10.020.088.1.9327 | VITE / SCREW / SCHRAUBE M10X20                                 | 2        |
| 020  | 9007.06.012.129.1.5933 | VITE / SCREW / SCHRAUBE M6X12                                  | 4        |
| 021  | 9007.08.012.129.1.5933 | VITE / SCREW / SCHRAUBE M8X12                                  | 6        |
| 022  | 9007.08.030.129.1.4762 | VITE / SCREW / SCHRAUBE M8X30                                  | 3        |
| 023  | 9007.06.012.129.1.4762 | VITE / SCREW / SCHRAUBE M6X12                                  | 2        |



POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (9003) SENSORE / SENSOR / SENSOR



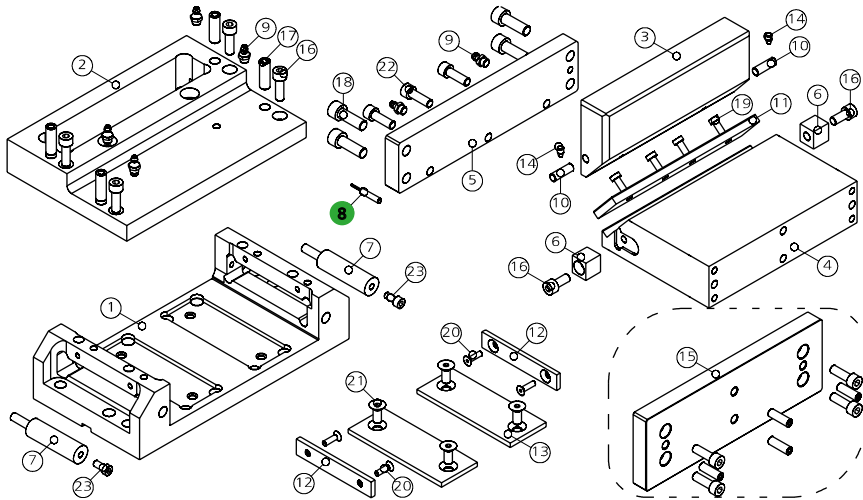
8 PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

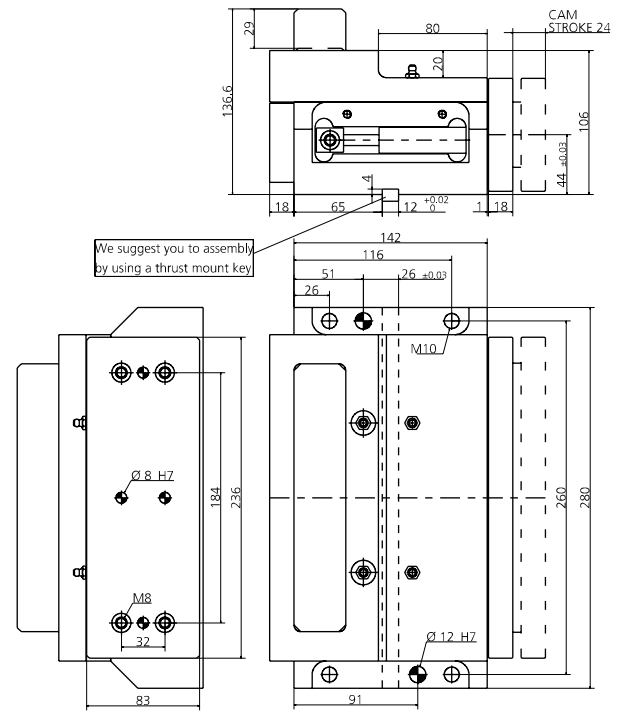
MODEL 0145.0414 OPTION CODE 8014.4546.0414

# 0145.0419 - CAM MASC400 S198

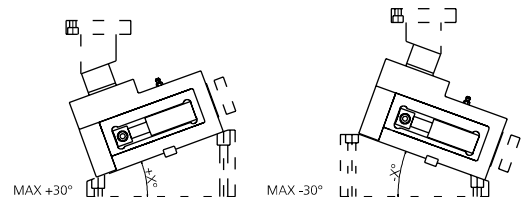
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **400 daN** SFORZO MAX TRANCIO **8000 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **450 daN** CUTTING MAX FORCE  
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE



| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0045.0419</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | <b>8010.4546.0419</b>         | COPERCHIO / COVER / KOPFPLATTE                                 | 1        |
| 003  | <b>8008.4546.1920</b>         | CUNEO / WEDGE / DRUCKKEIL                                      | 1        |
| 004  | <b>8007.4546.0419</b>         | SLITTA / SLIDER / LAGE   | 1        |
| 005  | <b>8002.4546.0419</b>         | FLANGIA POSTERIORE / REAR FLANGE / HINTERER FLANSCH            | 1        |
| 006  | <b>8026.0300.0200.180.001</b> | BLOCCHETTO REGGI MOLLA / SPRING HOLDER BLOCK / FEDERLAGERBLOCK | 2        |
| 007  | <b>9000.0025.0019.007</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 2        |
| 008  | <b>9003.0002</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 009  | <b>9006.002</b>               | INGRASSATORE / NIPPLE / SCHMIERUNG                             | 3        |
| 010  | <b>8005.0250.0250.080.001</b> | PERNO / PIN / STIFT  | 2        |
| 011  | <b>8012.0950.0370.080.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 2        |
| 012  | <b>9012.1000.0180.050.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 2        |
| 013  | <b>9012.1250.0480.050.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 2        |
| 014  | <b>9020.06.10.E090</b>        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 2        |
| 015  | <b>8014.4546.0419</b>         | KIT PORTA PUNZONE / KIT PUNCH HOLDER / KIT TRÄGERPLATTE        | 1*OPTION |
| 016  | <b>9007.08.020.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X20                                  | 6        |
| 017  | <b>9028.100.030.8735</b>      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D10X30            | 4        |
| 018  | <b>9007.10.030.129.1.4762</b> | VITE / SCREW / SCHRAUBE M10X30                                 | 4        |
| 019  | <b>9007.06.010.088.1.9327</b> | VITE / SCREW / SCHRAUBE M6X10                                  | 4        |
| 020  | <b>9007.06.012.129.1.5933</b> | VITE / SCREW / SCHRAUBE M6X12                                  | 4        |
| 021  | <b>9007.08.012.129.1.5933</b> | VITE / SCREW / SCHRAUBE M8X12                                  | 6        |
| 022  | <b>9007.08.030.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X30                                  | 3        |
| 023  | <b>9007.06.012.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X12                                  | 2        |



POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (9003) SENSORE / SENSOR / SENSOR



**8** PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0145.0419** OPTION CODE **8014.4546.0419**

# 0145.0905 - CAM MASC900 S58

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE  
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

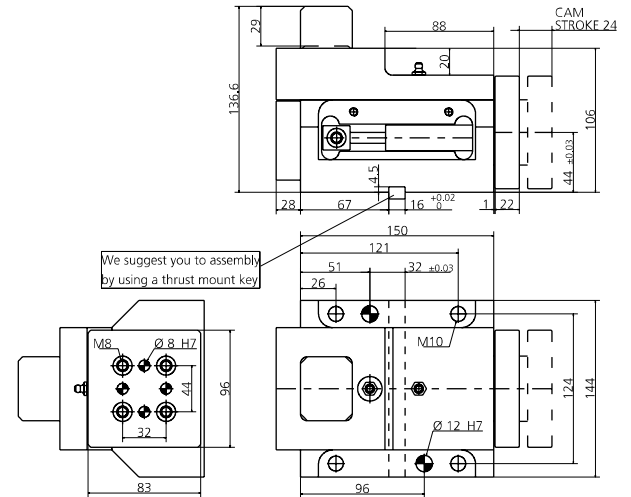
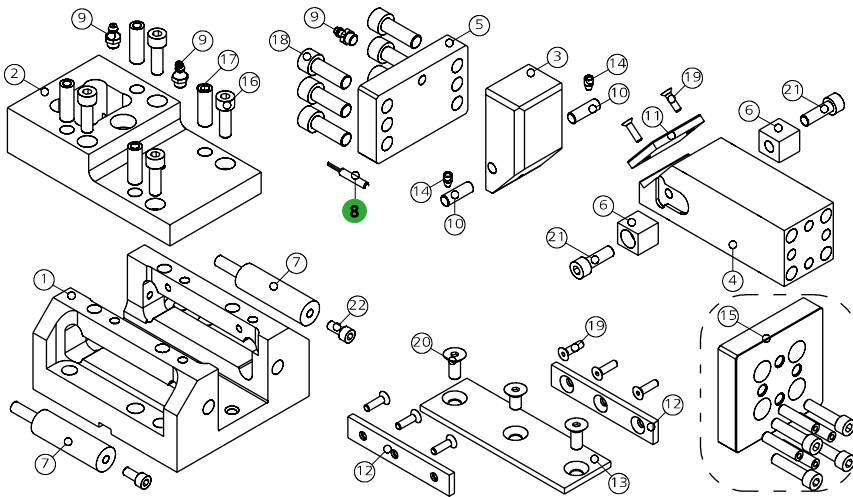
**900 daN**

SFORZO MAX TRANCIO **14000 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION  
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

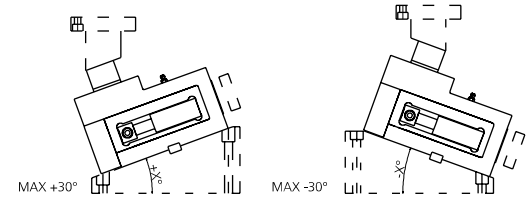
**1200 daN**

CUTTING MAX FORCE  
MAXIMALE SCHNITTKRAFT  
EFFORT MAXI DÉCOUPE



| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0045.0905</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | <b>8010.4546.0905</b>         | COPERCHIO / COVER / KOPFPLATTE                                 | 1        |
| 003  | <b>8008.4546.0405</b>         | CUNEO / WEDGE / DRUCKKEIL                                      | 1        |
| 004  | <b>8007.4546.0905</b>         | SLITTA / SLIDER / LAGE   | 1        |
| 005  | <b>8002.4546.0905</b>         | FLANGIA POSTERIORE / REAR FLANGE / HINTERER FLANSCH            | 1        |
| 006  | <b>8026.0250.0300.220.001</b> | BLOCCHETTO REGGI MOLLA / SPRING HOLDER BLOCK / FEDERLAGERBLOCK | 2        |
| 007  | <b>9000.0025.0025.001</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 2        |
| 008  | <b>9003.0002</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 009  | <b>9006.002</b>               | INGRASSATORE / NIPPLE / SCHMIERUNG                             | 3        |
| 010  | <b>8005.0250.0250.080.001</b> | PERNO / PIN / STIFT  | 2        |
| 011  | <b>8012.0550.0380.060.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 1        |
| 012  | <b>9012.1500.0180.050.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 2        |
| 013  | <b>9012.1500.0480.050.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 1        |
| 014  | <b>9020.06.10.E090</b>        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 2        |
| 015  | <b>8014.4546.0905</b>         | KIT PORTA PUNZONE / KIT PUNCH HOLDER / KIT TRÄGERPLATTE        | 1*OPTION |
| 016  | <b>9007.08.020.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X20                                  | 4        |
| 017  | <b>9028.100.030.8735</b>      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D10X30            | 4        |
| 018  | <b>9007.10.040.129.1.4762</b> | VITE / SCREW / SCHRAUBE M10X40                                 | 6        |
| 019  | <b>9007.06.012.129.1.5933</b> | VITE / SCREW / SCHRAUBE M6X12                                  | 8        |
| 020  | <b>9007.08.012.129.1.5933</b> | VITE / SCREW / SCHRAUBE M8X12                                  | 3        |
| 021  | <b>9007.08.030.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X30                                  | 2        |
| 022  | <b>9007.06.016.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X16                                  | 2        |

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (9003) SENSORE / SENSOR / SENSOR



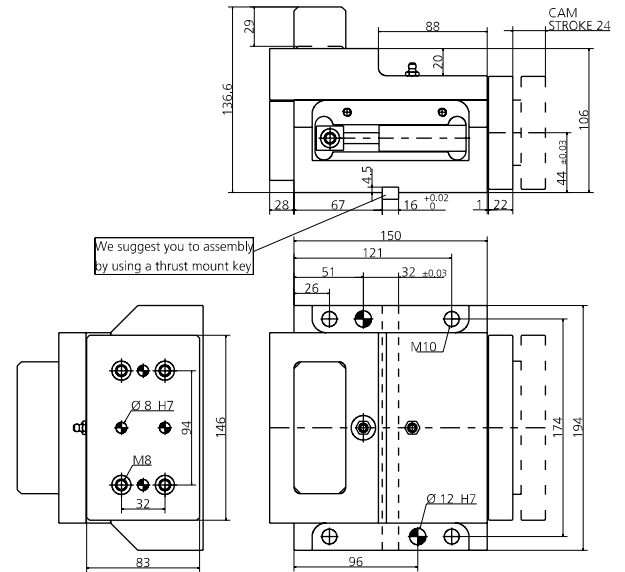
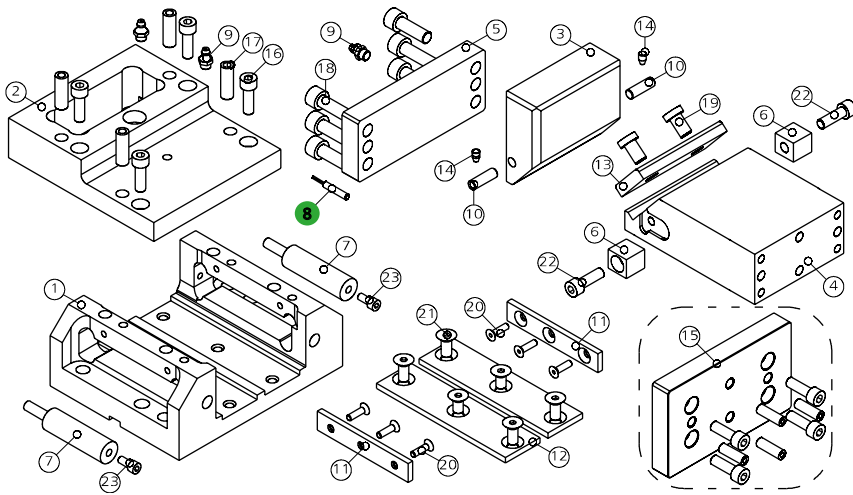
**8** PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

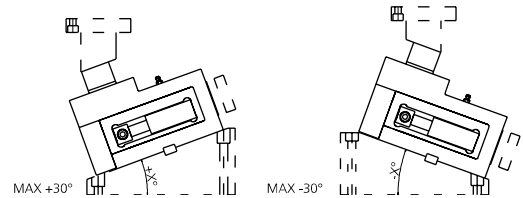
MODEL **0145.0905** OPTION CODE **8014.4546.0905**

# 0145.0910 - CAM MASC900 S108

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **900 daN** SFORZO MAX TRANCIO **14000 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1200 daN** CUTTING MAX FORCE  
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE



POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (9003) SENSORE / SENSOR / SENSOR



**8** PATENT PENDING

| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0045.0910</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | <b>8010.4546.0910</b>         | COPERCHIO / COVER / KOPFPLATTE                                 | 1        |
| 003  | <b>8008.4546.0910</b>         | CUNEO / WEDGE / DRUCKKEIL                                      | 1        |
| 004  | <b>8007.4546.0910</b>         | SLITTA / SLIDER / LAGE   | 1        |
| 005  | <b>8002.4546.0910</b>         | FLANGIA POSTERIORE / REAR FLANGE / HINTERER FLANSCH            | 1        |
| 006  | <b>8026.0250.0300.220.001</b> | BLOCCHETTO REGGI MOLLA / SPRING HOLDER BLOCK / FEDERLAGERBLOCK | 2        |
| 007  | <b>9000.0025.0025.001</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 2        |
| 008  | <b>9003.0002</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 009  | <b>9006.002</b>               | INGRASSATORE / NIPPLE / SCHMIERUNG                             | 3        |
| 010  | <b>8005.0250.0250.080.001</b> | PERNO / PIN / STIFT  | 2        |
| 011  | <b>9012.1500.0180.050.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 2        |
| 012  | <b>9012.1500.0480.050.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 2        |
| 013  | <b>9012.1000.0380.100.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 1        |
| 014  | <b>9020.06.10.E090</b>        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 2        |
| 015  | <b>8014.4546.0910</b>         | KIT PORTA PUNZONE / KIT PUNCH HOLDER / KIT TRÄGERPLATTE        | 1*OPTION |
| 016  | <b>9007.08.020.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X20                                  | 4        |
| 017  | <b>9028.100.030.8735</b>      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D10X30            | 4        |
| 018  | <b>9007.10.040.129.1.4762</b> | VITE / SCREW / SCHRAUBE M10X40                                 | 6        |
| 019  | <b>9007.10.020.088.1.9327</b> | VITE / SCREW / SCHRAUBE M10X20                                 | 2        |
| 020  | <b>9007.06.012.129.1.5933</b> | VITE / SCREW / SCHRAUBE M6X12                                  | 6        |
| 021  | <b>9007.08.012.129.1.5933</b> | VITE / SCREW / SCHRAUBE M8X12                                  | 6        |
| 022  | <b>9007.08.030.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X30                                  | 2        |
| 023  | <b>9007.06.016.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X16                                  | 2        |

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0145.0910** OPTION CODE **8014.4546.0910**

# 0145.0915 - CAM MASC900 S158

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE  
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

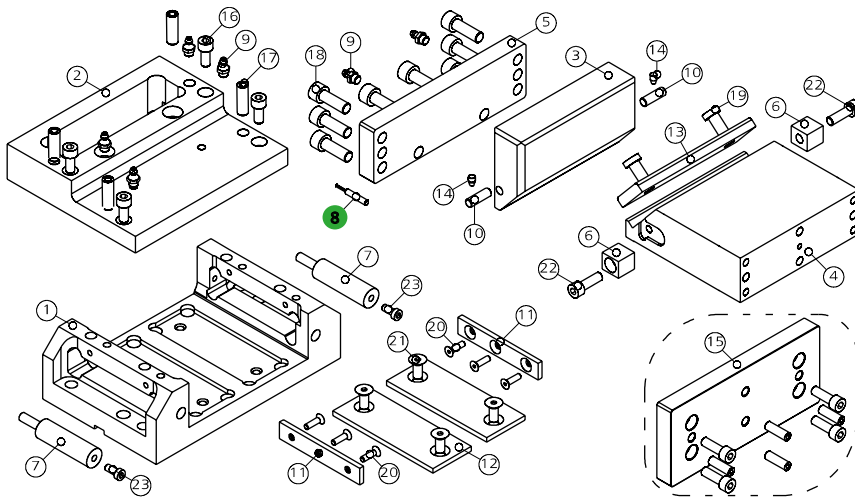
**900 daN**

SFORZO MAX TRANCIO **14000 daN**

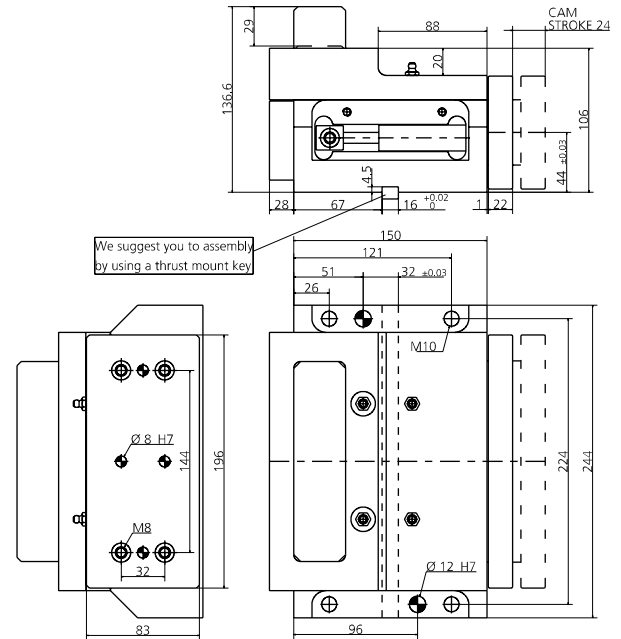
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION  
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

**1200 daN**

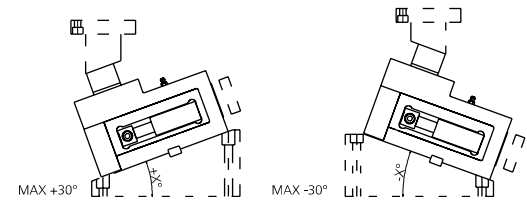
CUTTING MAX FORCE  
MAXIMALE SCHNITTKRAFT  
EFFORT MAXI DÉCOUPE



| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0045.0915</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | <b>8010.4546.0915</b>         | COPERCHIO / COVER / KOPFPLATTE                                 | 1        |
| 003  | <b>8008.4546.1415</b>         | CUNEO / WEDGE / DRUCKKEIL                                      | 1        |
| 004  | <b>8007.4546.0915</b>         | SLITTA / SLIDER / LAGE   | 1        |
| 005  | <b>8002.4546.0915</b>         | FLANGIA POSTERIORE / REAR FLANGE / HINTERER FLANSCH            | 1        |
| 006  | <b>8026.0250.0300.220.001</b> | BLOCCHETTO REGGI MOLLA / SPRING HOLDER BLOCK / FEDERLAGERBLOCK | 2        |
| 007  | <b>9000.0025.0025.001</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 2        |
| 008  | <b>9003.0002</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 009  | <b>9006.002</b>               | INGRASSATORE / NIPPLE / SCHMIERUNG                             | 3        |
| 010  | <b>8005.0250.0250.080.001</b> | PERNO / PIN / STIFT  | 2        |
| 011  | <b>9012.1500.0180.050.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 2        |
| 012  | <b>9012.1500.0480.050.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 2        |
| 013  | <b>9012.1500.0380.100.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 1        |
| 014  | <b>9020.06.10.E090</b>        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 2        |
| 015  | <b>8014.4546.0915</b>         | KIT PORTA PUNZONE / KIT PUNCH HOLDER / KIT TRÄGERPLATTE        | 1*OPTION |
| 016  | <b>9007.08.020.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X20                                  | 4        |
| 017  | <b>9028.100.030.8735</b>      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D10X30            | 4        |
| 018  | <b>9007.10.040.129.1.4762</b> | VITE / SCREW / SCHRAUBE M10X40                                 | 8        |
| 019  | <b>9007.10.020.088.1.9327</b> | VITE / SCREW / SCHRAUBE M10X20                                 | 2        |
| 020  | <b>9007.06.012.129.1.5933</b> | VITE / SCREW / SCHRAUBE M6X12                                  | 6        |
| 021  | <b>9007.08.012.129.1.5933</b> | VITE / SCREW / SCHRAUBE M8X12                                  | 6        |
| 022  | <b>9007.08.030.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X30                                  | 2        |
| 023  | <b>9007.06.016.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X16                                  | 2        |



POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (9003) SENSORE / SENSOR / SENSOR



**8** PATENT PENDING

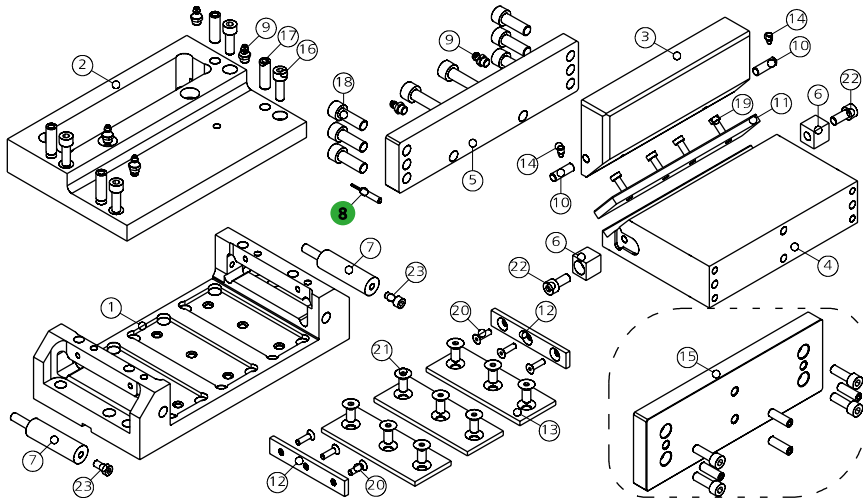
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0145.0915** OPTION CODE **8014.4546.0915**

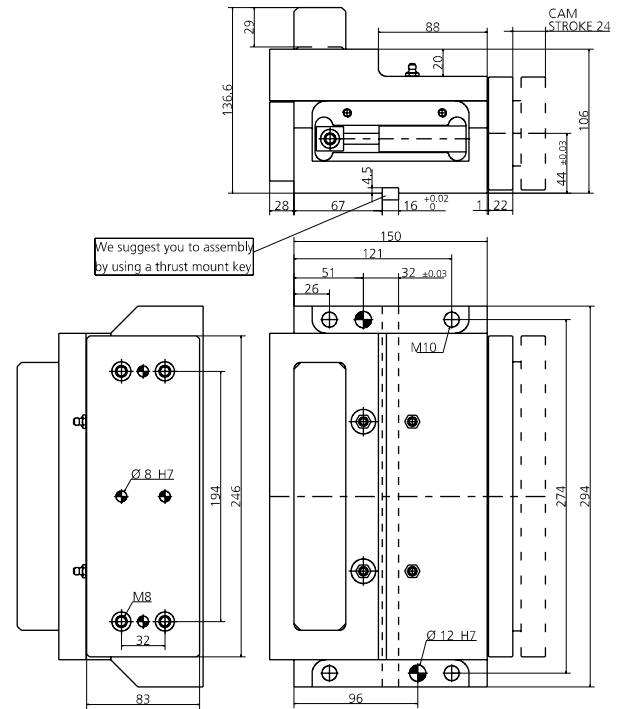


# 0145.0920 - CAM MASC900 S208

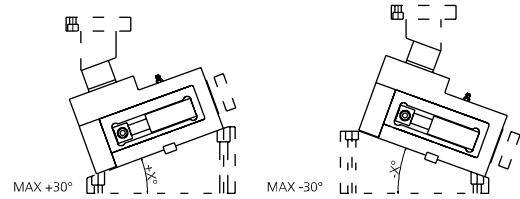
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **900 daN** SFORZO MAX TRANCIO **14000 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1200 daN** CUTTING MAX FORCE  
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE



| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0045.0920</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | <b>8010.4546.0920</b>         | COPERCHIO / COVER / KOPFPLATTE                                 | 1        |
| 003  | <b>8008.4546.1920</b>         | CUNEO / WEDGE / DRUCKKEIL                                      | 1        |
| 004  | <b>8007.4546.0920</b>         | SLITTA / SLIDER / LAGE   | 1        |
| 005  | <b>8002.4546.0920</b>         | FLANGIA POSTERIORE / REAR FLANGE / HINTERER FLANSCH            | 1        |
| 006  | <b>8026.0250.0300.220.001</b> | BLOCCHETTO REGGI MOLLA / SPRING HOLDER BLOCK / FEDERLAGERBLOCK | 2        |
| 007  | <b>9000.0025.0025.001</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 2        |
| 008  | <b>9003.0002</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 009  | <b>9006.002</b>               | INGRASSATORE / NIPPLE / SCHMIERUNG                             | 3        |
| 010  | <b>8005.0250.0250.080.001</b> | PERNO / PIN / STIFT  | 2        |
| 011  | <b>8012.1025.0380.080.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 2        |
| 012  | <b>9012.1500.0180.050.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 2        |
| 013  | <b>9012.1500.0480.050.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 3        |
| 014  | <b>9020.06.10.E090</b>        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 2        |
| 015  | <b>8014.4546.0920</b>         | KIT PORTA PUNZONE / KIT PUNCH HOLDER / KIT TRÄGERPLATTE        | 1*OPTION |
| 016  | <b>9007.08.020.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X20                                  | 4        |
| 017  | <b>9028.100.030.8735</b>      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D10X30            | 4        |
| 018  | <b>9007.10.040.129.1.4762</b> | VITE / SCREW / SCHRAUBE M10X40                                 | 8        |
| 019  | <b>9007.06.010.088.1.9327</b> | VITE / SCREW / SCHRAUBE M6X10                                  | 4        |
| 020  | <b>9007.06.012.129.1.5933</b> | VITE / SCREW / SCHRAUBE M6X12                                  | 6        |
| 021  | <b>9007.08.012.129.1.5933</b> | VITE / SCREW / SCHRAUBE M8X12                                  | 9        |
| 022  | <b>9007.08.030.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X30                                  | 2        |
| 023  | <b>9007.06.016.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X16                                  | 2        |



POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (9003) SENSORE / SENSOR / SENSOR



**8** PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0145.0920** OPTION CODE **8014.4546.0920**





CAM MASC



## CAM MASC COMPACT

- IT** Camma meccanica di potenza fino a 20'000 daN con un ritorno garantito mediante due molle ad azoto, su cui vengono applicati gli accessori o gli acciai per eseguire le lavorazioni desiderate. Il moto è trasferito mediante cunei inclinati ed è dotato di un sistema antirotativo. Può essere montata in posizione orizzontale o inclinata (previo confronto con l'ufficio tecnico Newstark). Possibili applicazioni: adatta a lavori generalmente di tranciatura, foratura e piegatura.
- EN** Mechanical cam with power supply up to 20'000 daN with return by nitrogen spring, on which are applied accessories or steel, to perform required work. The motion is transferred through wedges inclined and in which there is an anti-rotation system. Can be fitted horizontally or inclined (after comparison with Newstark's technical department). Means of application: generally suitable for shearing, drilling and bending work.
- DE** Mechanische Stanzeinheit Kraft bis 20'000 daN mit einem Rücklauf der durch Stickstofffedern sichergestellt wird. An der Schubstange kann Zubehör je nach Bedarf angebracht werden. Bei diesem Modell, wird die Bewegung durch Keile umgesetzt. Durch die Art der Schubstange wird die Rotationsbewegung so gering wie möglich gehalten. Diese Einheit ist für die Montage von oben ausgelegt. Die Einheiten können (nach Abstimmung mit technischen Büro von Newstark) horizontal oder geneigt montiert werden. Mögliche Anwendungen: Stanzen, Biegen und Prägen.
- FR** Came mécanique d'une puissance allant jusqu'à 20'000 daN avec retour garanti au moyen de deux ressorts à azote, sur lesquels sont appliqués les accessoires ou les aciers pour réaliser les usinages souhaités. Le mouvement est transmis par des cales inclinées et est équipé d'un système anti-rotation. Elle peut être montée en position horizontale ou inclinée (après discussion avec le bureau technique Newstark). Applications possibles: convient pour les travaux de découpage, de perçage et de pliage.

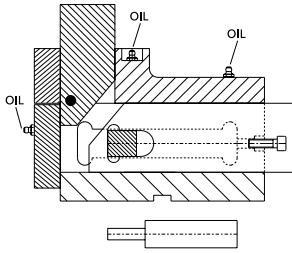


### PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE



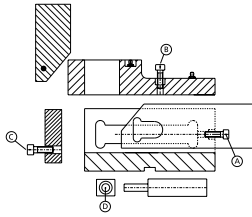
# CAM MASC COMPACT

DISEGNO DEL MONTAGGIO / MOUNTING DESIGN / MONTAGEZEICHNUNG / DESSIN DU MONTAGE



- ATTENZIONE:**  
per eseguire la prova manualmente togliere il cilindro come indicato.  
**ATTENTION:**  
in order to manually perform the test, extract the cylinder as indicated.  
**ACHTUNG:**  
Stickstoffzylinder verbaut, Schieber nur in Grundstellung öffnen.  
**ATTENTION:**  
pour effectuer le test, retirer manuellement le cylindre comme indiqué.

SMONTAGGIO PRODOTTO MASC COMPACT / PRODUCT DISASSEMBLY MASC COMPACT / DEMONTAGE DES PRODUKTES MASC COMPACT  
DÉMONTAGE PRODUIT MASC COMPACT



- ATTENZIONE:** cilindro a gas in pressione.  
**ATTENTION:** gas cylinder under pressure.  
**ACHTUNG:** Gasdruckfeder steht unter hohem Druck.  
**ATTENTION:** cylindre à gaz sous pression.

- IT** **Attenzione: Assicurarsi che la camma sia nella sua posizione normale prima di eseguire qualsiasi lavoro di smontaggio o manutenzione.**
1. Togliere i cilindri a gas rimuovendo le viti "A" come indicato.
  2. Togliere la piastra di testa rimuovendo le viti "B" come indicato.
  3. Togliere la piastra posteriore rimuovendo le viti "C" come indicato in modo da togliere il cuneo.
  4. Togliere i blocchetti reggimolla rimuovendo le viti "D" come indicato in modo da togliere la slitta.
  5. Eseguire le verifiche.
  6. Rimontare con cura lubrificando con grasso bisolfuro di Molibdeno (MoS<sub>2</sub>). L'uso di questo grasso viene consigliato da Newstark.
  7. Assicurare il corretto riposizionamento dei singoli componenti. Lubrificare durante l'uso con grasso bisolfuro di Molibdeno (MoS<sub>2</sub>).

- EN** **Attention: Undertake reassembly or maintenance work only when the cam unit is in its basic position.**
1. Take off the gas cylinder by removing the screws "A" as shown.
  2. Take off the cover by removing the screws "B" as shown.
  3. Take off the rear flange by removing the screws "C" as shown in order to remove the wedge.
  4. Take off the springs holder block removing the screws "D" as shown in order to remove the slider.
  5. Check the components.
  6. Reassemble carefully using grease with disulfide molybdeno (MoS<sub>2</sub>). The use of this grease is recommended by Newstark.
  7. Ensure the correct positioning of the individual components. During use lubricate with grease with disulfide molybdeno (MoS<sub>2</sub>).

- DE** **Achtung: Wartungs- und Demontearbeiten nur in Grundstellung der Stanzeinheit vornehmen.**
1. Schrauben "A" entfernen um die Gasdruckfedern herauszuziehen.
  2. Schrauben "B" entfernen um die Kopfplatte herunter zu nehmen.
  3. Schrauben "C" entfernen um die Heckplatte herausziehen.
  4. Schrauben "D" entfernen um die Federlagerblöcke zu lösen.
  5. Komponenten prüfen.
  6. Montage in umgekehrter Reihenfolge unter Verwendung von Molybdändisulfidfett (MoS<sub>2</sub>). Die Verwendung dieses Fett wird durch Newstark empfohlen.
  7. Auf richtigen Sitz der einzelnen Komponenten achten. Während des Gebrauches, mit Molybdändisulfidfett (MoS<sub>2</sub>) Stellen nachschmieren.

- FR** **Attention: S'assurer d'abord que la came est dans sa position normale avant d'effectuer tout travail de démontage ou de maintenance.**
1. Retirer les cylindres à gaz en retirant les vis "A" comme indiqué.
  2. Retirer la plaque de tête en retirant les vis "B" comme indiqué.
  3. Retirer la plaque arrière en retirant les vis "C" comme indiqué afin d'enlever la cale.
  4. Retirer les blocs de support des ressorts en retirant les vis "D" comme indiqué afin d'enlever la glissière.
  5. Effectuer les contrôles.
  6. Remonter soigneusement en lubrifiant avec de la graisse au bisulfure de molybdène (MoS<sub>2</sub>). Newstark recommande l'utilisation de cette graisse.
  7. S'assurer que les différents éléments sont correctement repositionnés. Lubrifier avec de la graisse au bisulfure de molybdène (MoS<sub>2</sub>).

# 0146.0404 - CAM MASC COMPACT400 S48

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE

400 daN

SFORZO MAX TRANCIO

8000 daN

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

CUTTING MAX FORCE

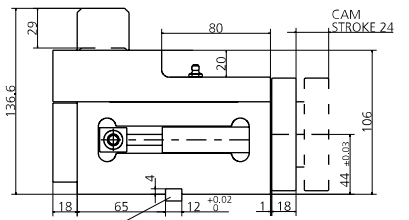
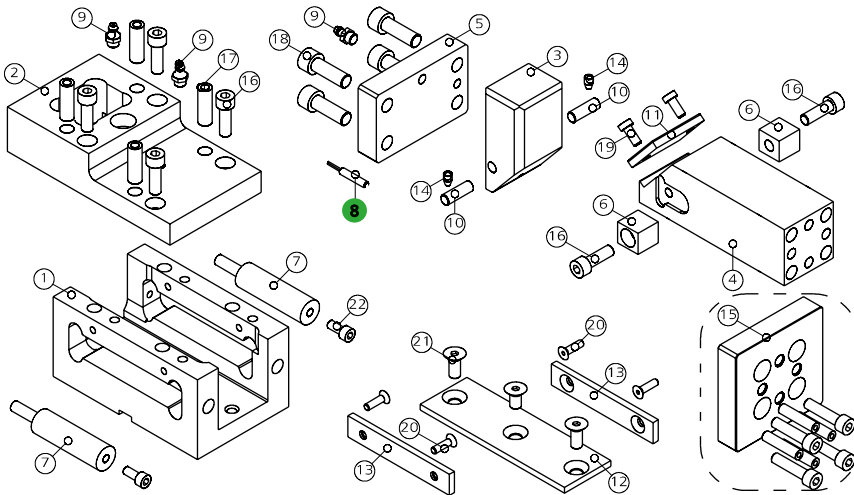
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION

450 daN

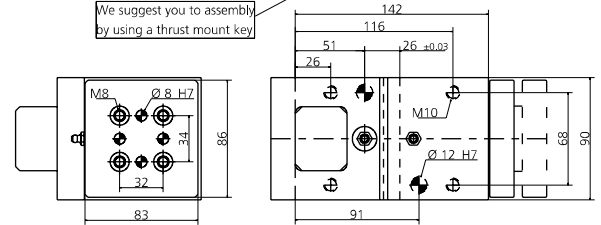
MAXIMALE SCHNITTKRAFT

ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

EFFORT MAXI DÉCOUPE

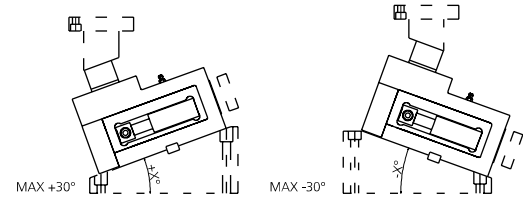


We suggest you to assembly by using a thrust mount key



| POS. | CODE                   | DESCRIPTION  | Q.TY     |
|------|------------------------|--|----------|
| 001  | 8000.0046.0404         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | 8010.4546.0404         | COPERCHIO / COVER / KOPFPLATTE                                 | 1        |
| 003  | 8008.4546.0405         | CUNEO / WEDGE / DRUCKKEIL                                      | 1        |
| 004  | 8007.4546.0404         | SLITTA / SLIDER / LAGE   | 1        |
| 005  | 8002.4546.0404         | FLANGIA POSTERIORE / REAR FLANGE / HINTERER FLANSCH            | 1        |
| 006  | 8026.0300.0200.180.001 | BLOCCHETTO REGGI MOLLA / SPRING HOLDER BLOCK / FEDERLAGERBLOCK | 2        |
| 007  | 9000.0025.0019.007     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 2        |
| 008  | 9003.0002              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 009  | 9006.002               | INGRASSATORE / NIPPLE / SCHMIERUNG                             | 3        |
| 010  | 8005.0250.0250.080.001 | PERNO / PIN / STIFT  | 2        |
| 011  | 8012.0470.0380.060.001 | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 1        |
| 012  | 8012.1420.0460.050.001 | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 1        |
| 013  | 9012.1000.0180.050.001 | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 2        |
| 014  | 9020.06.10.E090        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 2        |
| 015  | 8014.4546.0404         | KIT PORTA PUNZONE / KIT PUNCH HOLDER / KIT TRÄGERPLATTE        | 1*OPTION |
| 016  | 9007.08.020.129.1.4762 | VITE / SCREW / SCHRAUBE M8X20                                  | 6        |
| 017  | 9028.100.030.8735      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D10X30            | 4        |
| 018  | 9007.10.030.129.1.4762 | VITE / SCREW / SCHRAUBE M10X30                                 | 4        |
| 019  | 9007.06.010.088.1.9327 | VITE / SCREW / SCHRAUBE M6X10                                  | 2        |
| 020  | 9007.06.012.129.1.5933 | VITE / SCREW / SCHRAUBE M6X12                                  | 4        |
| 021  | 9007.08.012.129.1.5933 | VITE / SCREW / SCHRAUBE M8X12                                  | 3        |
| 022  | 9007.06.012.129.1.4762 | VITE / SCREW / SCHRAUBE M6X12                                  | 2        |

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (9003) SENSORE / SENSOR / SENSOR



8 PATENT PENDING

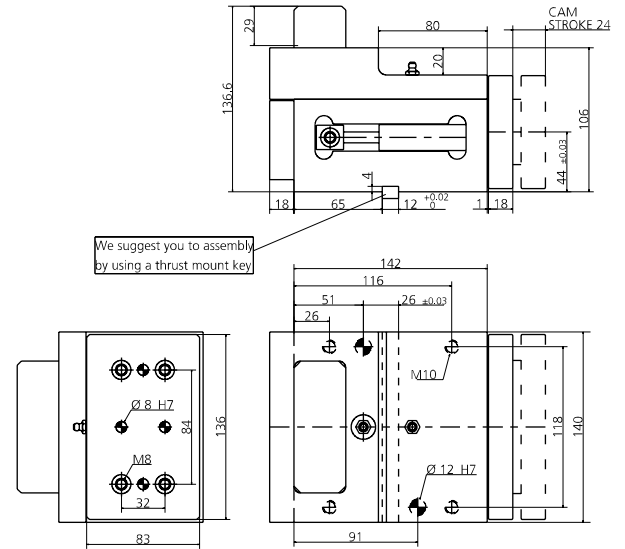
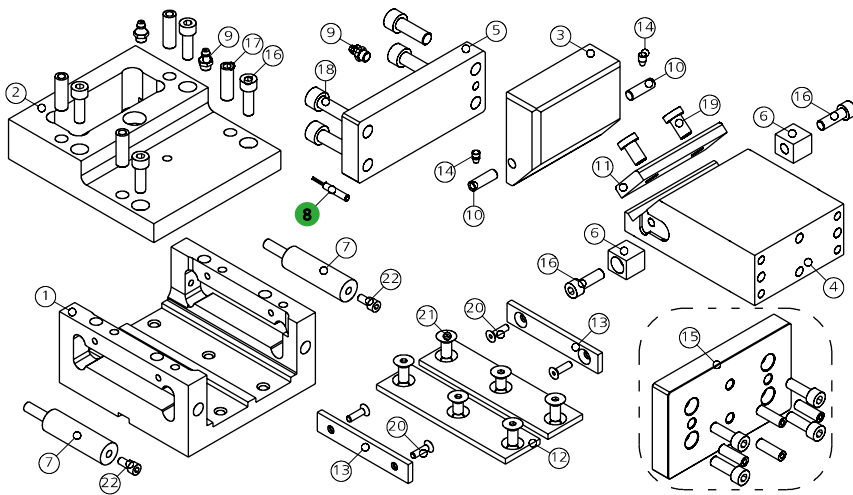
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0146.0404** OPTION CODE **8014.4546.0404**



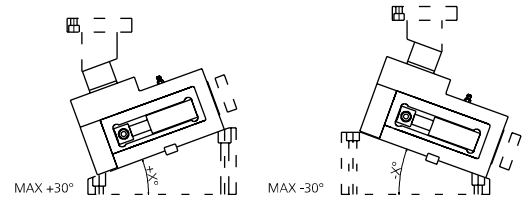
# 0146.0409 - CAM MASC COMPACT400 S98

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **400 daN** SFORZO MAX TRANCIO **8000 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **450 daN** CUTTING MAX FORCE  
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE



| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0046.0409</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | <b>8010.4546.0409</b>         | COPERCHIO / COVER / KOPFPLATTE                                 | 1        |
| 003  | <b>8008.4546.0910</b>         | CUNEO / WEDGE / DRUCKKEIL                                      | 1        |
| 004  | <b>8007.4546.0409</b>         | SLITTA / SLIDER / LAGE   | 1        |
| 005  | <b>8002.4546.0409</b>         | FLANGIA POSTERIORE / REAR FLANGE / HINTERER FLANSCH            | 1        |
| 006  | <b>8026.0300.0200.180.001</b> | BLOCCHETTO REGGI MOLLA / SPRING HOLDER BLOCK / FEDERLAGERBLOCK | 2        |
| 007  | <b>9000.0025.0019.007</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 2        |
| 008  | <b>9003.0002</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 009  | <b>9006.002</b>               | INGRASSATORE / NIPPLE / SCHMIERUNG                             | 3        |
| 010  | <b>8005.0250.0250.080.001</b> | PERNO / PIN / STIFT  | 2        |
| 011  | <b>8012.0920.0380.100.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 1        |
| 012  | <b>8012.1420.0380.050.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 2        |
| 013  | <b>9012.1000.0180.050.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 2        |
| 014  | <b>9020.06.10.E090</b>        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 2        |
| 015  | <b>8014.4546.0409</b>         | KIT PORTA PUNZONE / KIT PUNCH HOLDER / KIT TRÄGERPLATTE        | 1*OPTION |
| 016  | <b>9007.08.020.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X20                                  | 6        |
| 017  | <b>9028.100.030.8735</b>      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D10X30            | 4        |
| 018  | <b>9007.10.030.129.1.4762</b> | VITE / SCREW / SCHRAUBE M10X30                                 | 4        |
| 019  | <b>9007.10.020.088.1.9327</b> | VITE / SCREW / SCHRAUBE M10X20                                 | 2        |
| 020  | <b>9007.06.012.129.1.5933</b> | VITE / SCREW / SCHRAUBE M6X12                                  | 4        |
| 021  | <b>9007.08.012.129.1.5933</b> | VITE / SCREW / SCHRAUBE M8X12                                  | 6        |
| 022  | <b>9007.06.012.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X12                                  | 2        |

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (9003) SENSORE / SENSOR / SENSOR



**8** PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0146.0409** OPTION CODE **8014.4546.0409**

# 0146.0414 - CAM MASC COMPACT400 S148

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE

400 daN

SFORZO MAX TRANCIO

8000 daN

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

CUTTING MAX FORCE

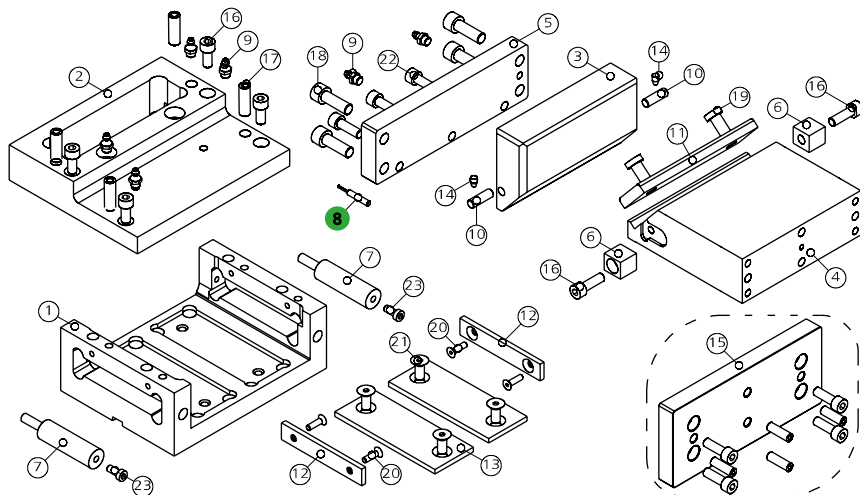
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION

450 daN

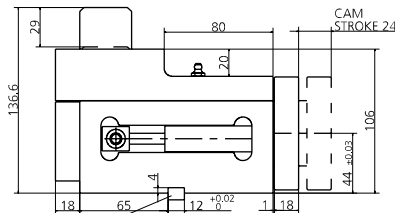
MAXIMALE SCHNITTKRAFT

ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

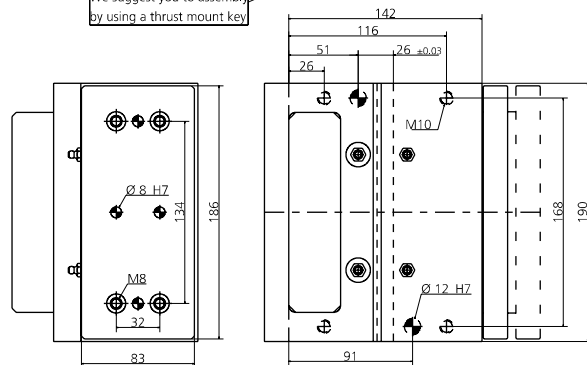
EFFORT MAXI DÉCOUPE



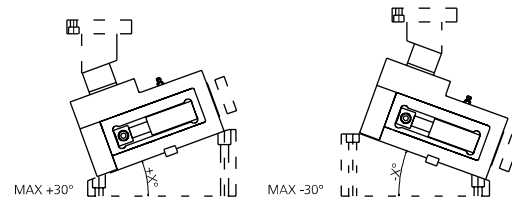
| POS. | CODE                   | DESCRIPTION  | Q.TY     |
|------|------------------------|--|----------|
| 001  | 8000.0046.0414         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | 8010.4546.0414         | COPERCHIO / COVER / KOPFFLATTE                                 | 1        |
| 003  | 8008.4546.1415         | CUNEO / WEDGE / DRUCKKEIL                                      | 1        |
| 004  | 8007.4546.0414         | SLITTA / SLIDER / LAGE   | 1        |
| 005  | 8002.4546.0414         | FLANGIA POSTERIORE / REAR FLANGE / HINTERER FLANSCH            | 1        |
| 006  | 8026.0300.0200.180.001 | BLOCCHETTO REGGI MOLLA / SPRING HOLDER BLOCK / FEDERLAGERBLOCK | 2        |
| 007  | 9000.0025.0019.007     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 2        |
| 008  | 9003.0002              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 009  | 9006.002               | INGRASSATORE / NIPPLE / SCHMIERUNG                             | 3        |
| 010  | 8005.0250.0250.080.001 | PERNO / PIN / STIFT  | 2        |
| 011  | 8012.1420.0380.100.001 | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 1        |
| 012  | 9012.1000.0180.050.001 | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 2        |
| 013  | 9012.1250.0480.050.001 | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 2        |
| 014  | 9020.06.10.E090        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 2        |
| 015  | 8014.4546.0414         | KIT PORTA PUNZONE / KIT PUNCH HOLDER / KIT TRÄGERPLATTE        | 1*OPTION |
| 016  | 9007.08.020.129.1.4762 | VITE / SCREW / SCHRAUBE M8X20                                  | 6        |
| 017  | 9028.100.030.8735      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D10X30            | 4        |
| 018  | 9007.10.030.129.1.4762 | VITE / SCREW / SCHRAUBE M10X30                                 | 4        |
| 019  | 9007.10.020.088.1.9327 | VITE / SCREW / SCHRAUBE M10X20                                 | 2        |
| 020  | 9007.06.012.129.1.5933 | VITE / SCREW / SCHRAUBE M6X12                                  | 4        |
| 021  | 9007.08.012.129.1.5933 | VITE / SCREW / SCHRAUBE M8X12                                  | 6        |
| 022  | 9007.08.030.129.1.4762 | VITE / SCREW / SCHRAUBE M8X30                                  | 3        |
| 023  | 9007.06.012.129.1.4762 | VITE / SCREW / SCHRAUBE M6X12                                  | 2        |



We suggest you to assembly by using a thrust mount key



POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (9003) SENSORE / SENSOR / SENSOR



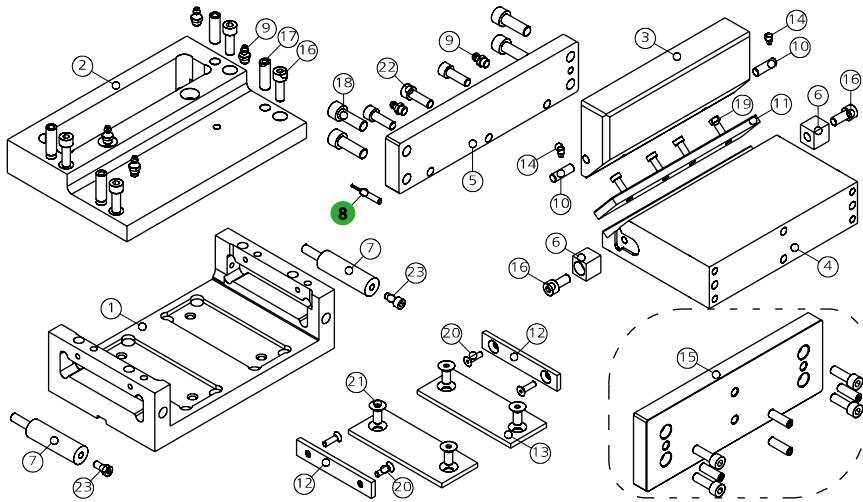
**8** PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

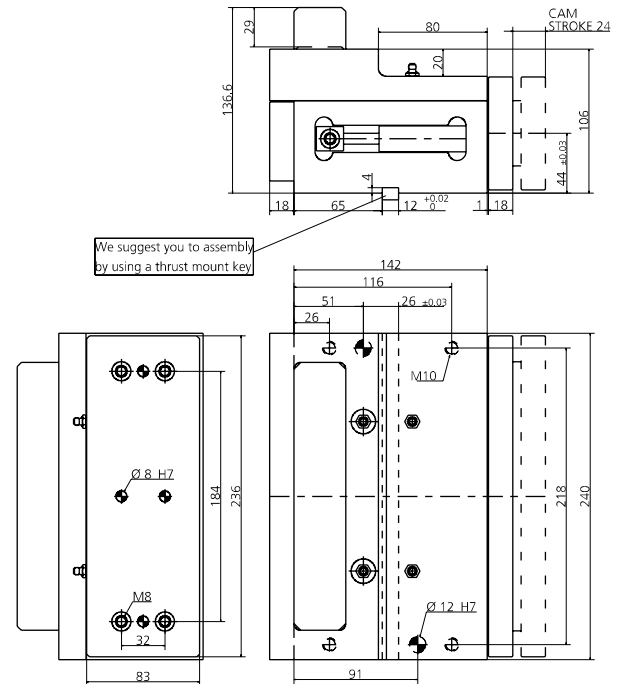
MODEL **0146.0414** OPTION CODE **8014.4546.0414**

# 0146.0419 - CAM MASC COMPACT400 S198

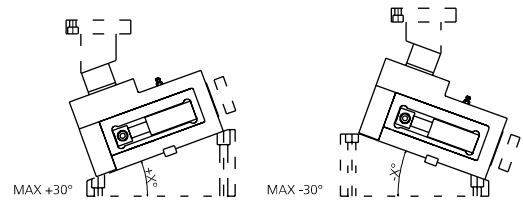
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **400 daN** SFORZO MAX TRANCIO **8000 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **450 daN** CUTTING MAX FORCE  
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE



| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0046.0419</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | <b>8010.4546.0419</b>         | COPERCHIO / COVER / KOPFPLATTE                                 | 1        |
| 003  | <b>8008.4546.1920</b>         | CUNEO / WEDGE / DRUCKKEIL                                      | 1        |
| 004  | <b>8007.4546.0419</b>         | SLITTA / SLIDER / LAGE   | 1        |
| 005  | <b>8002.4546.0419</b>         | FLANGIA POSTERIORE / REAR FLANGE / HINTERER FLANSCH            | 1        |
| 006  | <b>8026.0300.0200.180.001</b> | BLOCCHETTO REGGI MOLLA / SPRING HOLDER BLOCK / FEDERLAGERBLOCK | 2        |
| 007  | <b>9000.0025.0019.007</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 2        |
| 008  | <b>9003.0002</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 009  | <b>9006.002</b>               | INGRASSATORE / NIPPLE / SCHMIERUNG                             | 3        |
| 010  | <b>8005.0250.0250.080.001</b> | PERNO / PIN / STIFT  | 2        |
| 011  | <b>8012.0950.0370.080.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 2        |
| 012  | <b>9012.1000.0180.050.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 2        |
| 013  | <b>9012.1250.0480.050.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 2        |
| 014  | <b>9020.06.10.E090</b>        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 2        |
| 015  | <b>8014.4546.0419</b>         | KIT PORTA PUNZONE / KIT PUNCH HOLDER / KIT TRÄGERPLATTE        | 1*OPTION |
| 016  | <b>9007.08.020.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X20                                  | 6        |
| 017  | <b>9028.100.030.8735</b>      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D10X30            | 4        |
| 018  | <b>9007.10.030.129.1.4762</b> | VITE / SCREW / SCHRAUBE M10X30                                 | 4        |
| 019  | <b>9007.06.010.088.1.9327</b> | VITE / SCREW / SCHRAUBE M6X10                                  | 4        |
| 020  | <b>9007.06.012.129.1.5933</b> | VITE / SCREW / SCHRAUBE M6X12                                  | 4        |
| 021  | <b>9007.08.012.129.1.5933</b> | VITE / SCREW / SCHRAUBE M8X12                                  | 6        |
| 022  | <b>9007.08.030.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X30                                  | 3        |
| 023  | <b>9007.06.012.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X12                                  | 2        |



POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (9003) SENSORE / SENSOR / SENSOR



**8** PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0146.0419** OPTION CODE **8014.4546.0419**

# 0146.0905 - CAM MASC COMPACT900 S58

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE  
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

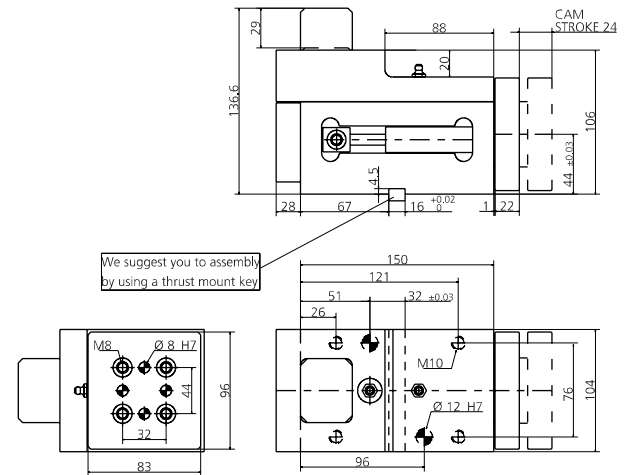
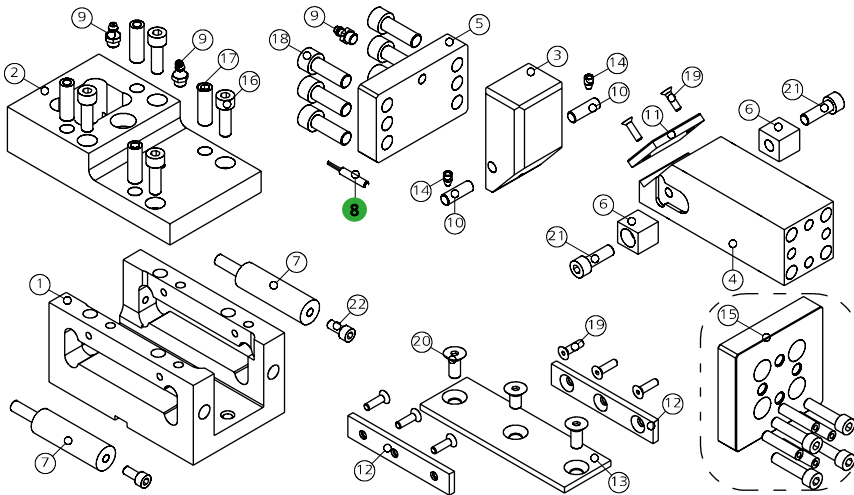
**900 daN**

SFORZO MAX TRANCIO 14000 daN

CUTTING MAX FORCE  
MAXIMALE SCHNITTKRAFT  
EFFORT MAXI DÉCOUPE

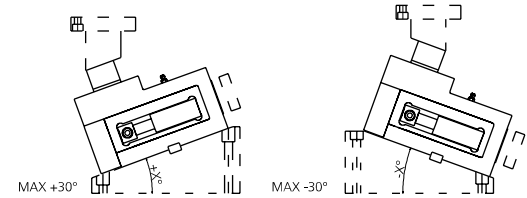
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION  
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

**1200 daN**



| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0046.0905</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | <b>8010.4546.0905</b>         | COPERCHIO / COVER / KOPFPLATTE                                 | 1        |
| 003  | <b>8008.4546.0405</b>         | CUNEO / WEDGE / DRUCKKEIL                                      | 1        |
| 004  | <b>8007.4546.0905</b>         | SLITTA / SLIDER / LAGE   | 1        |
| 005  | <b>8002.4546.0905</b>         | FLANGIA POSTERIORE / REAR FLANGE / HINTERER FLANSCH            | 1        |
| 006  | <b>8026.0250.0300.220.001</b> | BLOCCHETTO REGGI MOLLA / SPRING HOLDER BLOCK / FEDERLAGERBLOCK | 2        |
| 007  | <b>9000.0025.0025.001</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 2        |
| 008  | <b>9003.0002</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 009  | <b>9006.002</b>               | INGRASSATORE / NIPPLE / SCHMIERUNG                             | 3        |
| 010  | <b>8005.0250.0250.080.001</b> | PERNO / PIN / STIFT  | 2        |
| 011  | <b>8012.0550.0380.060.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 1        |
| 012  | <b>9012.1500.0180.050.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 2        |
| 013  | <b>9012.1500.0480.050.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 1        |
| 014  | <b>9020.06.10.E090</b>        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 2        |
| 015  | <b>8014.4546.0905</b>         | KIT PORTA PUNZONE / KIT PUNCH HOLDER / KIT TRÄGERPLATTE        | 1*OPTION |
| 016  | <b>9007.08.020.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X20                                  | 4        |
| 017  | <b>9028.100.030.8735</b>      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D10X30            | 4        |
| 018  | <b>9007.10.040.129.1.4762</b> | VITE / SCREW / SCHRAUBE M10X40                                 | 6        |
| 019  | <b>9007.06.012.129.1.5933</b> | VITE / SCREW / SCHRAUBE M6X12                                  | 8        |
| 020  | <b>9007.08.012.129.1.5933</b> | VITE / SCREW / SCHRAUBE M8X12                                  | 3        |
| 021  | <b>9007.08.030.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X30                                  | 2        |
| 022  | <b>9007.06.016.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X16                                  | 2        |

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (9003) SENSORE / SENSOR / SENSOR



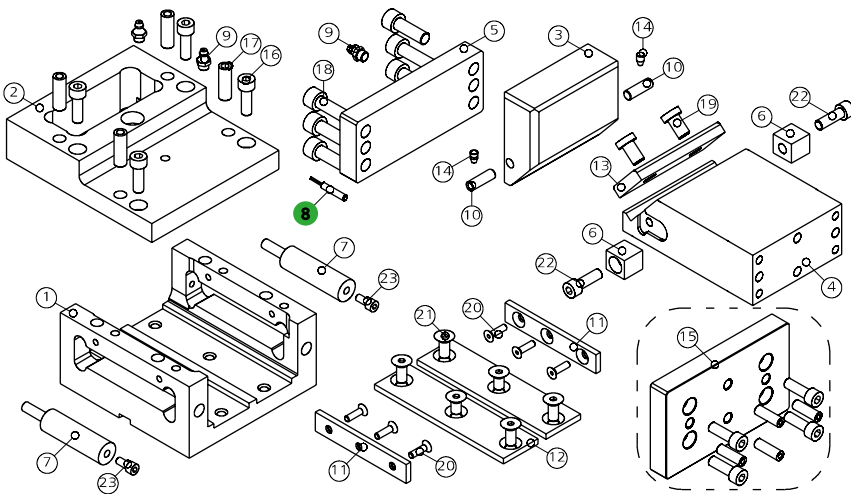
**8 PATENT PENDING**

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

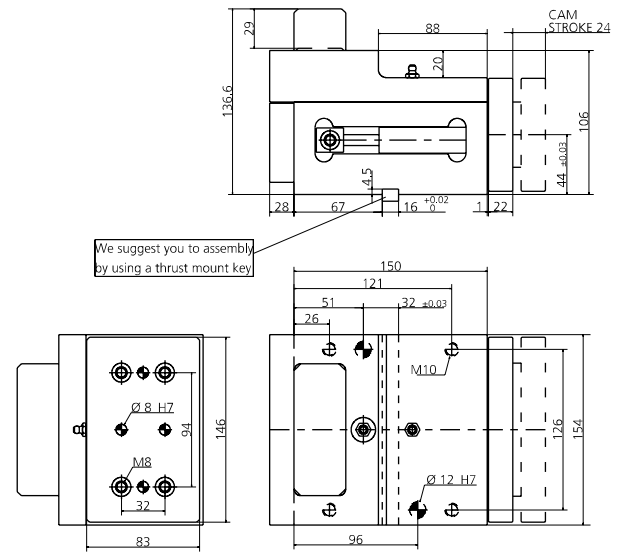
MODEL **0146.0905** OPTION CODE **8014.4546.0905**

# 0146.0910 - CAM MASC COMPACT900 S108

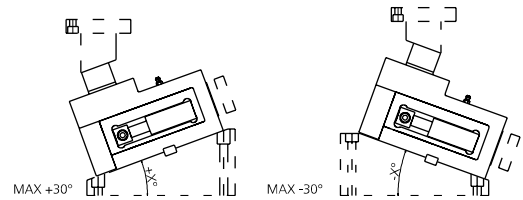
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **900 daN** SFORZO MAX TRANCIO **14000 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1200 daN** CUTTING MAX FORCE  
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE



| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0046.0910</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | <b>8010.4546.0910</b>         | COPERCHIO / COVER / KOPFPLATTE                                 | 1        |
| 003  | <b>8008.4546.0910</b>         | CUNEO / WEDGE / DRUCKKEIL                                      | 1        |
| 004  | <b>8007.4546.0910</b>         | SLITTA / SLIDER / LAGE   | 1        |
| 005  | <b>8002.4546.0910</b>         | FLANGIA POSTERIORE / REAR FLANGE / HINTERER FLANSCH            | 1        |
| 006  | <b>8026.0250.0300.220.001</b> | BLOCCHETTO REGGI MOLLA / SPRING HOLDER BLOCK / FEDERLAGERBLOCK | 2        |
| 007  | <b>9000.0025.0025.001</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 2        |
| 008  | <b>9003.0002</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 009  | <b>9006.002</b>               | INGRASSATORE / NIPPLE / SCHMIERUNG                             | 3        |
| 010  | <b>8005.0250.0250.080.001</b> | PERNO / PIN / STIFT  | 2        |
| 011  | <b>9012.1500.0180.050.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 2        |
| 012  | <b>9012.1500.0480.050.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 2        |
| 013  | <b>9012.1000.0380.100.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 1        |
| 014  | <b>9020.06.10.E090</b>        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 2        |
| 015  | <b>8014.4546.0910</b>         | KIT PORTA PUNZONE / KIT PUNCH HOLDER / KIT TRÄGERPLATTE        | 1*OPTION |
| 016  | <b>9007.08.020.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X20                                  | 4        |
| 017  | <b>9028.100.030.8735</b>      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D10X30            | 4        |
| 018  | <b>9007.10.040.129.1.4762</b> | VITE / SCREW / SCHRAUBE M10X40                                 | 6        |
| 019  | <b>9007.10.020.088.1.9327</b> | VITE / SCREW / SCHRAUBE M10X20                                 | 2        |
| 020  | <b>9007.06.012.129.1.5933</b> | VITE / SCREW / SCHRAUBE M6X12                                  | 6        |
| 021  | <b>9007.08.012.129.1.5933</b> | VITE / SCREW / SCHRAUBE M8X12                                  | 6        |
| 022  | <b>9007.08.030.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X30                                  | 2        |
| 023  | <b>9007.06.016.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X16                                  | 2        |



POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (9003) SENSORE / SENSOR / SENSOR



**8** PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0146.0910** OPTION CODE **8014.4546.0910**

# 0146.0915 - CAM MASC COMPACT900 S158

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE

900 daN

SFORZO MAX TRANCIO 14000 daN

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

CUTTING MAX FORCE

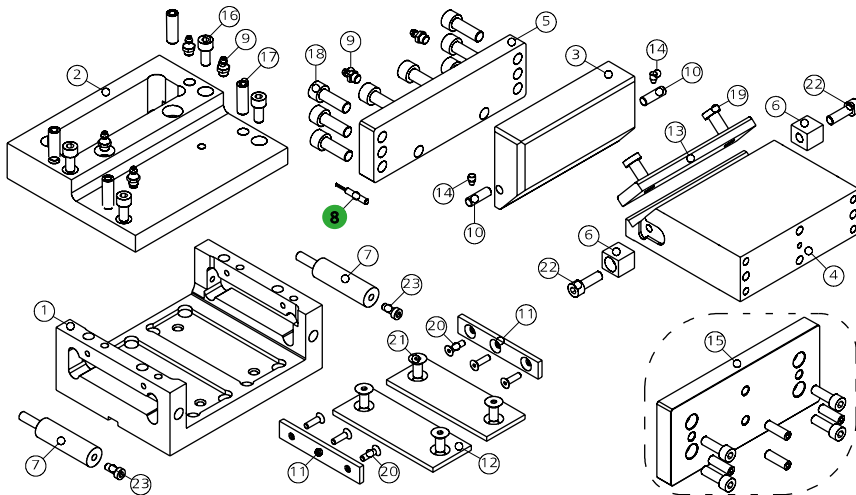
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION

1200 daN

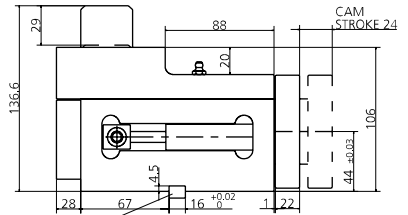
MAXIMALE SCHNITTKRAFT

ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

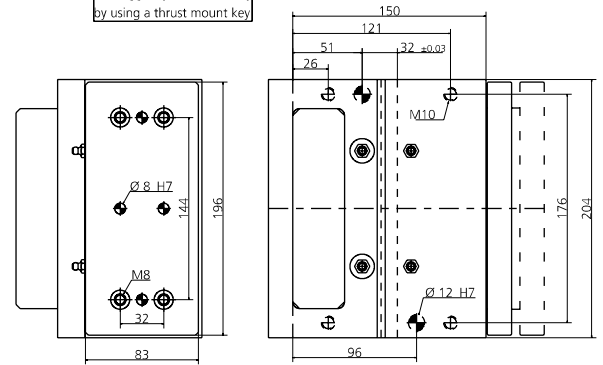
EFFORT MAXI DÉCOUPE



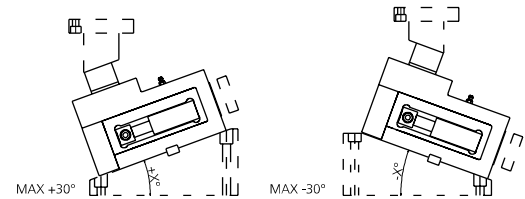
| POS. | CODE                   | DESCRIPTION  | Q.TY     |
|------|------------------------|--|----------|
| 001  | 8000.0046.0915         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | 8010.4546.0915         | COPERCHIO / COVER / KOPFPLATTE                                 | 1        |
| 003  | 8008.4546.1415         | CUNEO / WEDGE / DRUCKKEIL                                      | 1        |
| 004  | 8007.4546.0915         | SLITTA / SLIDER / LAGE   | 1        |
| 005  | 8002.4546.0915         | FLANGIA POSTERIORE / REAR FLANGE / HINTERER FLANSCH            | 1        |
| 006  | 8026.0250.0300.220.001 | BLOCCHETTO REGGI MOLLA / SPRING HOLDER BLOCK / FEDERLAGERBLOCK | 2        |
| 007  | 9000.0025.0025.001     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 2        |
| 008  | 9003.0002              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 009  | 9006.002               | INGRASSATORE / NIPPLE / SCHMIERUNG                             | 3        |
| 010  | 8005.0250.0250.080.001 | PERNO / PIN / STIFT  | 2        |
| 011  | 9012.1500.0180.050.001 | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 2        |
| 012  | 9012.1500.0480.050.001 | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 2        |
| 013  | 9012.1500.0380.100.001 | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 1        |
| 014  | 9020.06.10.E090        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 2        |
| 015  | 8014.4546.0915         | KIT PORTA PUNZONE / KIT PUNCH HOLDER / KIT TRÄGERPLATTE        | 1*OPTION |
| 016  | 9007.08.020.129.1.4762 | VITE / SCREW / SCHRAUBE M8X20                                  | 4        |
| 017  | 9028.100.030.8735      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D10X30            | 4        |
| 018  | 9007.10.040.129.1.4762 | VITE / SCREW / SCHRAUBE M10X40                                 | 8        |
| 019  | 9007.10.020.088.1.9327 | VITE / SCREW / SCHRAUBE M10X20                                 | 2        |
| 020  | 9007.06.012.129.1.5933 | VITE / SCREW / SCHRAUBE M6X12                                  | 6        |
| 021  | 9007.08.012.129.1.5933 | VITE / SCREW / SCHRAUBE M8X12                                  | 6        |
| 022  | 9007.08.030.129.1.4762 | VITE / SCREW / SCHRAUBE M8X30                                  | 2        |
| 023  | 9007.06.016.129.1.4762 | VITE / SCREW / SCHRAUBE M6X16                                  | 2        |



We suggest you to assembly by using a thrust mount key



POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (9003) SENSORE / SENSOR / SENSOR



8 PATENT PENDING

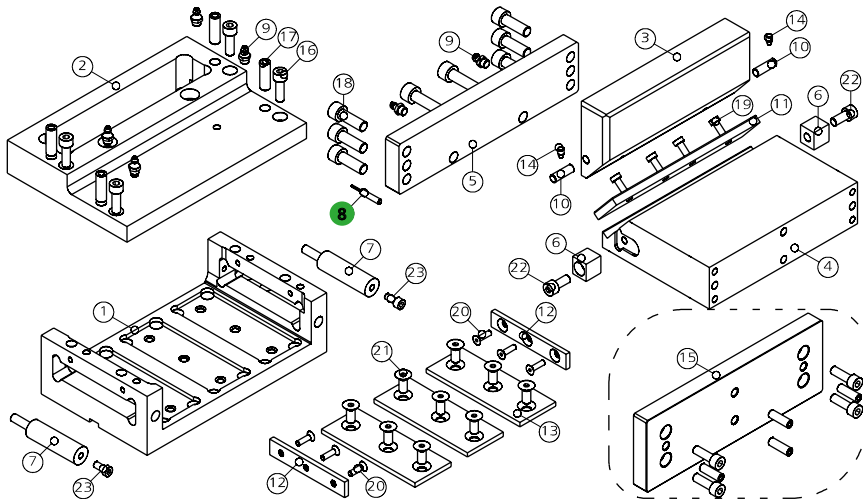
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0146.0915** OPTION CODE **8014.4546.0915**

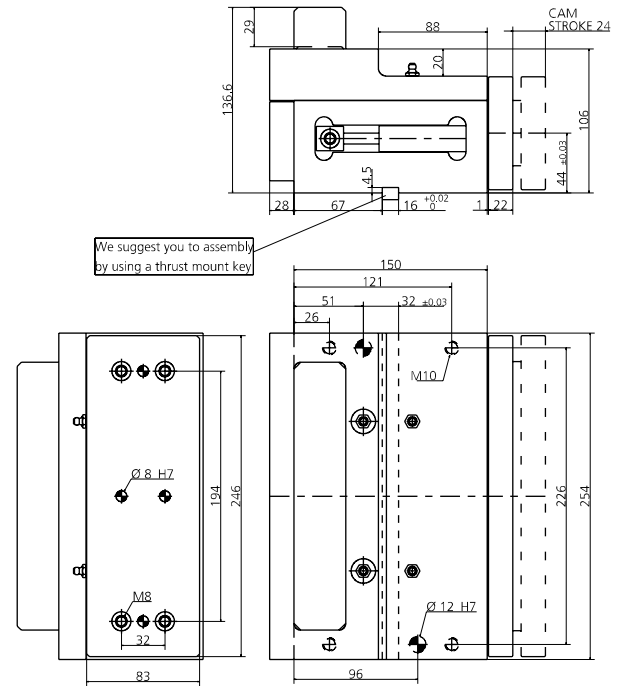


# 0146.0920 - CAM MASC COMPACT900 S208

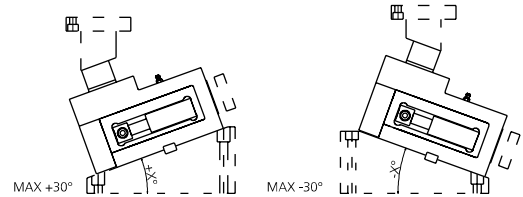
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **900 daN** SFORZO MAX TRANCIO **14000 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1200 daN** CUTTING MAX FORCE  
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE



| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0046.0920</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | <b>8010.4546.0920</b>         | COPERCHIO / COVER / KOPFPLATTE                                 | 1        |
| 003  | <b>8008.4546.1920</b>         | CUNEO / WEDGE / DRUCKKEIL                                      | 1        |
| 004  | <b>8007.4546.0920</b>         | SLITTA / SLIDER / LAGE   | 1        |
| 005  | <b>8002.4546.0920</b>         | FLANGIA POSTERIORE / REAR FLANGE / HINTERER FLANSCH            | 1        |
| 006  | <b>8026.0250.0300.220.001</b> | BLOCCHETTO REGGI MOLLA / SPRING HOLDER BLOCK / FEDERLAGERBLOCK | 2        |
| 007  | <b>9000.0025.0025.001</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 2        |
| 008  | <b>9003.0002</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 009  | <b>9006.002</b>               | INGRASSATORE / NIPPLE / SCHMIERUNG                             | 3        |
| 010  | <b>8005.0250.0250.080.001</b> | PERNO / PIN / STIFT  | 2        |
| 011  | <b>8012.1025.0380.080.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 2        |
| 012  | <b>9012.1500.0180.050.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 2        |
| 013  | <b>9012.1500.0480.050.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 3        |
| 014  | <b>9020.06.10.E090</b>        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 2        |
| 015  | <b>8014.4546.0920</b>         | KIT PORTA PUNZONE / KIT PUNCH HOLDER / KIT TRÄGERPLATTE        | 1*OPTION |
| 016  | <b>9007.08.020.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X20                                  | 4        |
| 017  | <b>9028.100.030.8735</b>      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D10X30            | 4        |
| 018  | <b>9007.10.040.129.1.4762</b> | VITE / SCREW / SCHRAUBE M10X40                                 | 8        |
| 019  | <b>9007.06.010.088.1.9327</b> | VITE / SCREW / SCHRAUBE M6X10                                  | 4        |
| 020  | <b>9007.06.012.129.1.5933</b> | VITE / SCREW / SCHRAUBE M6X12                                  | 6        |
| 021  | <b>9007.08.012.129.1.5933</b> | VITE / SCREW / SCHRAUBE M8X12                                  | 9        |
| 022  | <b>9007.08.030.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X30                                  | 2        |
| 023  | <b>9007.06.016.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X16                                  | 2        |



POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (9003) SENSORE / SENSOR / SENSOR



**8** PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0146.0920** OPTION CODE **8014.4546.0920**

# 0146.1508 - CAM MASC COMPACT1500 S88

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **1500 daN**

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1950 daN**

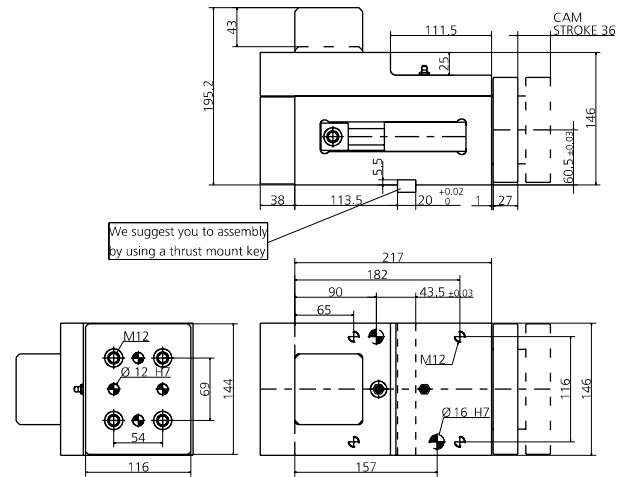
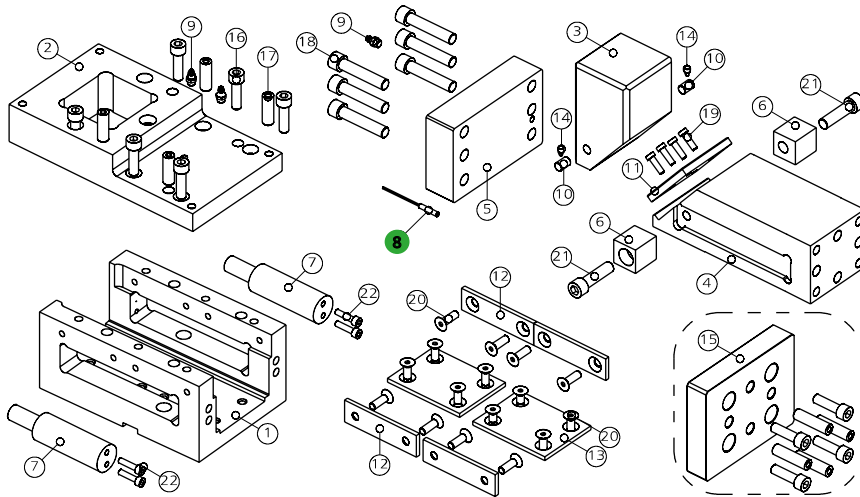
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **20000 daN**

CUTTING MAX FORCE

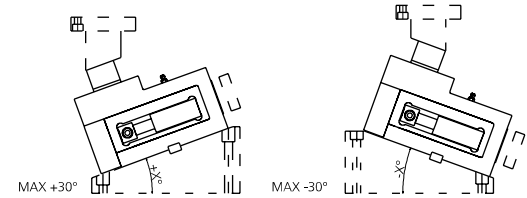
MAXIMALE SCHNITTKRAFT

EFFORT MAXI DÉCOUPE



| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0046.1508</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | <b>8010.4546.1508</b>         | COPERCHIO / COVER / KOPFPLATTE                                 | 1        |
| 003  | <b>8008.4546.0008</b>         | CUNEO / WEDGE / DRUCKKEIL                                      | 1        |
| 004  | <b>8007.4546.1508</b>         | SLITTA / SLIDER / LAGE   | 1        |
| 005  | <b>8002.4546.1508</b>         | FLANGIA POSTERIORE / REAR FLANGE / HINTERER FLANSCH            | 1        |
| 006  | <b>8026.0340.0300.300.001</b> | BLOCCHETTO REGGI MOLLA / SPRING HOLDER BLOCK / FEDERLAGERBLOCK | 2        |
| 007  | <b>9000.0038.0032.001</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 2        |
| 008  | <b>9003.0002</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 009  | <b>9006.002</b>               | INGRASSATORE / NIPPLE / SCHMIERUNG                             | 3        |
| 010  | <b>8005.0250.0250.100.001</b> | PERNO / PIN / STIFT  | 2        |
| 011  | <b>8012.0750.0750.080.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 1        |
| 012  | <b>9012.1000.0280.050.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 4        |
| 013  | <b>9012.1000.0750.050.001</b> | PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE             | 2        |
| 014  | <b>9020.06.10.E090</b>        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 2        |
| 015  | <b>8014.4546.1508</b>         | KIT PORTA PUNZONE / KIT PUNCH HOLDER / KIT TRÄGERPLATTE        | 1*OPTION |
| 016  | <b>9007.10.030.129.1.4762</b> | VITE / SCREW / SCHRAUBE M10X30                                 | 6        |
| 017  | <b>9028.120.030.8735</b>      | SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D12X30            | 4        |
| 018  | <b>9007.12.055.129.1.4762</b> | VITE / SCREW / SCHRAUBE M12X55                                 | 6        |
| 019  | <b>9007.06.010.088.1.9327</b> | VITE / SCREW / SCHRAUBE M6X10                                  | 4        |
| 020  | <b>9007.08.012.129.1.5933</b> | VITE / SCREW / SCHRAUBE M8X12                                  | 16       |
| 021  | <b>9007.12.040.129.1.4762</b> | VITE / SCREW / SCHRAUBE M12X40                                 | 2        |
| 022  | <b>9007.05.025.129.1.4762</b> | VITE / SCREW / SCHRAUBE M5X25                                  | 4        |

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (9003) SENSORE / SENSOR / SENSOR



**8** PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0146.1508** OPTION CODE **8014.4546.1508**



# CAM MASC COMPACT



## CAM ROLLER

- IT** Cam meccanica di potenza fino a 25'800 daN con ritorno garantito mediante un cilindro ad azoto, su cui vengono applicati gli accessori o gli acciai per eseguire le lavorazioni desiderate. Questa cam ha una corsa molto lunga e può essere montata in posizione orizzontale o inclinata. Possibili applicazioni: adatta a lavori generalmente di tranciatura, foratura e piegatura.
- EN** Mechanical cam with power supply up to 25'800 daN with return by a nitrogen cylinder, on which are applied accessories or steel, to perform required work. This cam has a long stroke and can be fitted horizontally or inclined. Means of application: generally suitable for shearing, drilling and bending work.
- DE** Mechanische Stanzeinheit mit einer Kraft bis 25'800 daN und einem Rücklauf, der durch eine Stickstofffeder sichergestellt wird. An der Stanzeinheit können Zubehör oder verschiedene Sorten Stahl je nach Bedarf angebracht werden. Diese Cam hat einen sehr langen Hub und kann horizontal oder geneigt montiert werden. Mögliche Anwendungen: Stanzen, Lochen und Biegen.
- FR** Came mécanique d'une puissance allant jusqu'à 25'800 daN avec retour garanti au moyen d'un vérin à azote, sur lequel sont appliqués les accessoires ou les aciers pour réaliser les usinages souhaités. Cette came a une très longue course et peut être montée en position horizontale ou inclinée. Applications possibles: convient pour les travaux de découpage, de perçage et de pliage.



### PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE



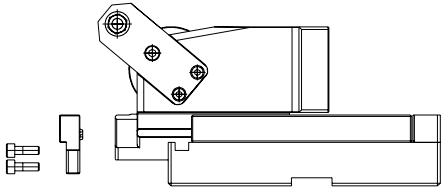
## CAM ROLLER

ESEMPI DI APPLICAZIONI SPECIALI / EXAMPLES OF SPECIAL APPLICATIONS / BEISPIELE FÜR SPEZIELLE ANWENDUNGEN  
EXEMPLE D'APPLICATIONS SPÉCIALES



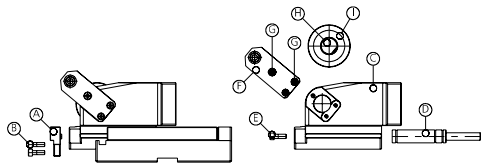
- ⚠ Forature sulla slitta a richiesta.**  
Su richiesta è possibile montare un'unità di punzonatura speciale.  
Upon request drillings are available in the slide.  
Upon request, it is possible to assemble a special punching unit.  
Auf Anfrage sind Bohrungen möglich.  
Auf Anfrage ist die Montage einer Stanzeinheit möglich.  
Perçage sur la glissière sur demande  
Une unité de poinçonnage spéciale peut être installée sur demande.

DISEGNO DEL MONTAGGIO / MOUNTING DESIGN / MONTAGEZEICHNUNG / DESSIN DU MONTAGE



- ⚠ ATTENZIONE:**  
per eseguire la prova manualmente togliere il cilindro come indicato.  
ATTENTION:  
in order to manually perform the test, extract the cylinder as indicated.  
ACHTUNG:  
Stickstoffzylinder verbaut, Schieber nur in Grundstellung öffnen.  
ATTENTION:  
pour effectuer le test, retirer manuellement le cylindre comme indiqué.

SMONTAGGIO PRODOTTO ROLLER / PRODUCT DISASSEMBLY ROLLER / DEMONTAGE DES PRODUKTES ROLLER / DÉMONTAGE PRODUIT ROLLER



- ⚠ ATTENZIONE: cilindro a gas in pressione.**  
ATTENTION: gas cylinder under pressure.  
ACHTUNG: Gasdruckfeder steht unter hohem Druck.  
ATTENTION: cylindre à gaz sous pression.

**IT** **Attenzione: Assicurarsi che la camma sia nella sua posizione normale prima di eseguire qualsiasi lavoro di smontaggio o manutenzione.**

1. Togliere le piastrine "A" rimuovendo le viti "B".
2. Sfilare la slitta "C".
3. Togliere il cilindro a gas "D" rimuovendo la vite "E".
4. Togliere le sfatte "F" rimuovendo le viti "G".
5. Sfilare il perno "H" per togliere la rotella "I".
6. Eseguire le verifiche.
7. Rimontare con cura lubrificando con grasso bisolfuro di Molibdeno (MoS<sub>2</sub>). L'uso di questo grasso viene consigliato da Newstark .  
Lubrificare durante l'uso con grasso bisolfuro di Molibdeno (MoS<sub>2</sub>).

**DE** **Achtung: Stellen Sie bei Montagearbeiten sicher, daß sich die CAM UNIT in der Basisposition befindet.**

1. Entfernen Sie die Platten „A“ durch entfernen der Schrauben „B“ wie gezeigt.
2. Entfernen Sie den Gleiter „C“.
3. Entfernen Sie den Stickstoffzylinder durch entfernen der Schraube „E“.
4. Entfernen Sie die Halter „F“ durch entfernen der Schrauben „G“.
5. Entfernen Sie den Stift „H“, um den ROLLER „I“ zu entnehmen.
6. Überprüfen Sie die Komponenten.
7. Bauen Sie alle Komponenten unter Verwendung von MoS<sub>2</sub>-Fett wieder zusammen. Die Verwendung von MoS<sub>2</sub>-Fett wird von Newstark empfohlen.  
Während der Nutzung fetten Sie mit MoS<sub>2</sub>-Fett.

**EN** **Attention: Undertake reassembly or maintenance work only when the cam unit is in its basic position.**

1. Take off the plates "A" by removing the screws "B" as shown.
2. Take off the slide "C".
3. Take off the nitrogen cylinder by removing the screw "E".
4. Take off the brackets "F" by removing the screws "G".
5. Take off the pin "H" to remove roller "I".
6. Check the components.
7. Reassemble carefully using grease with disulfide molybdeno (MoS<sub>2</sub>). The use of this grease is recommended by Newstark.  
During use lubricate with grease with disulfide molybdeno (MoS<sub>2</sub>).

**FR** **Attention: S'assurer d'abord que la came est dans sa position normale avant d'effectuer tout travail de démontage ou de maintenance.**

1. Enlever les plaques "A" en retirant les vis "B".
2. Enlever la glissière "C".
3. Retirer le cylindre à gaz "D" en enlevant la vis "E".
4. Enlever les étriers "F" en retirant les vis "G".
5. Retirer la goupille "H" pour enlever la roue "I".
6. Effectuer les contrôles.
7. Remonter soigneusement en lubrifiant avec de la graisse au bisulfure de molybdène (MoS<sub>2</sub>). Newstark recommande l'utilisation de cette graisse.  
Lubrifier avec de la graisse au bisulfure de molybdène (MoS<sub>2</sub>).

# 0149.P030 - CAM ROLLER P030

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE

50 daN

SFORZO MAX TRANCIO

3400 daN

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

CUTTING MAX FORCE

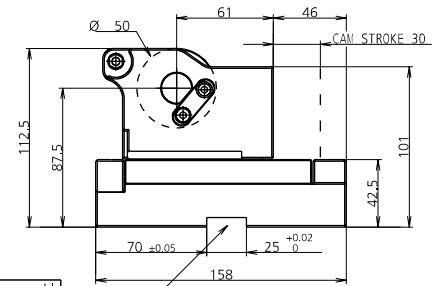
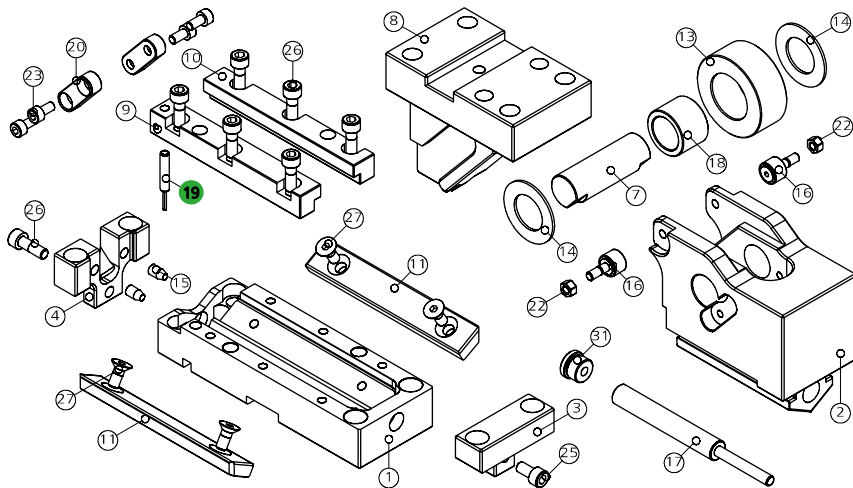
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION

100 daN

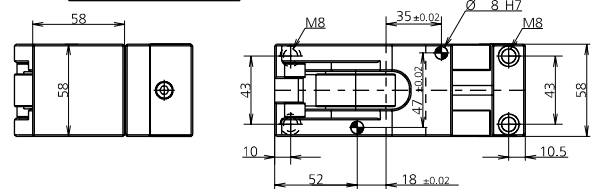
MAXIMALE SCHNITTKRAFT

ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

EFFORT MAXI DÉCOUPE

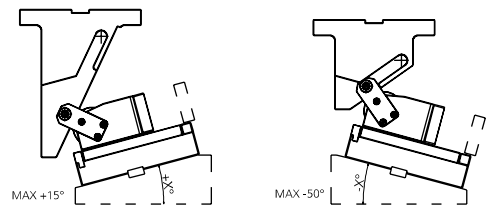


We suggest you to assembly by using a thrust mount key

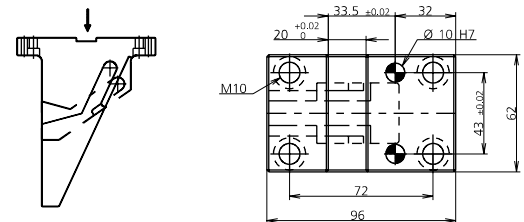


| POS. | CODE                   | DESCRIPTION  | Q.TY     |
|------|------------------------|--|----------|
| 001  | 8000.0049.0030         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | 8007.0049.0000         | SLITTA / SLIDER / LAGERKEIL                                    | 1        |
| 003  | 8088.0049.0000.001     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 004  | 8088.0049.0000.002     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 007  | 8005.0580.0417.200.001 | PERNO / PIN / STIFT  | 1        |
| 008  | 8090.0000.0030.000     | CUNEO / WEDGE / DRUCKSTÜCK 0                                   | 1*OPTION |
| 008  | 8090.0000.0030.605     | CUNEO / WEDGE / DRUCKSTÜCK +5                                  | 1*OPTION |
| 008  | 8090.0000.0030.610     | CUNEO / WEDGE / DRUCKSTÜCK +10                                 | 1*OPTION |
| 008  | 8090.0000.0030.615     | CUNEO / WEDGE / DRUCKSTÜCK +15                                 | 1*OPTION |
| 008  | 8090.0000.0030.705     | CUNEO / WEDGE / DRUCKSTÜCK -5                                  | 1*OPTION |
| 008  | 8090.0000.0030.710     | CUNEO / WEDGE / DRUCKSTÜCK -10                                 | 1*OPTION |
| 008  | 8090.0000.0030.715     | CUNEO / WEDGE / DRUCKSTÜCK -15                                 | 1*OPTION |
| 008  | 8090.0000.0030.720     | CUNEO / WEDGE / DRUCKSTÜCK -20                                 | 1*OPTION |
| 008  | 8090.0000.0030.725     | CUNEO / WEDGE / DRUCKSTÜCK -25                                 | 1*OPTION |
| 008  | 8090.0000.0030.730     | CUNEO / WEDGE / DRUCKSTÜCK -30                                 | 1*OPTION |
| 008  | 8090.0000.0030.735     | CUNEO / WEDGE / DRUCKSTÜCK -35                                 | 1*OPTION |
| 008  | 8090.0000.0030.740     | CUNEO / WEDGE / DRUCKSTÜCK -40                                 | 1*OPTION |
| 008  | 8090.0000.0030.745     | CUNEO / WEDGE / DRUCKSTÜCK -45                                 | 1*OPTION |
| 008  | 8090.0000.0030.750     | CUNEO / WEDGE / DRUCKSTÜCK -50                                 | 1*OPTION |
| 009  | 8086.1175.0165.155.001 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 010  | 8086.1175.0165.155.002 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 011  | 8012.1200.0195.080.001 | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE              | 2        |
| 013  | 8004.0500.0205.280.001 | ROTELLA / ROLLER / ROLLE                                       | 1        |
| 014  | 9033.2238.015          | RALLA / THRUST WASHER / DRUCKSCHEIBE                           | 2        |
| 015  | 9020.06.10.E090        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 2        |
| 016  | 8005.0230.0100.130.001 | PERNO / PIN / STIFT  | 2        |
| 017  | 9000.0038.0012.001     | CILINDRO AD AZOTO / NITROGER CYLINDER / STICKSTOFFZYLINDER     | 1        |
| 018  | 9035.2028.200.001      | BOCCOLA / BUSH / BUCHSE  | 1        |
| 019  | 9003.0002              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 020  | 8087.0350.0120.080.001 | CHIAVETTA / KEY / SCHLÜSSEL                                    | 2        |
| 022  | 9014.05.005.008.1.4032 | DADO / NUT / MUTTER M5   | 2        |
| 023  | 9007.05.010.129.1.4762 | VITE / SCREW / SCHRAUBE M5X10                                  | 4        |
| 025  | 9007.06.012.129.1.4762 | VITE / SCREW / SCHRAUBE M6X12                                  | 1        |
| 026  | 9007.06.018.129.1.4762 | VITE / SCREW / SCHRAUBE M6X18                                  | 7        |
| 027  | 9007.06.014.129.1.5933 | VITE / SCREW / SCHRAUBE M6X14                                  | 4        |
| 029  | 9013.0510.10.1.7089    | RONDELLA / WASHER / UNTERLEGSCHIBE                             | 2        |
| 031  | 8089.0160.0110.001     | DISTANZIALE / SPACER / ABSTANDSHALTER                          | 1        |

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

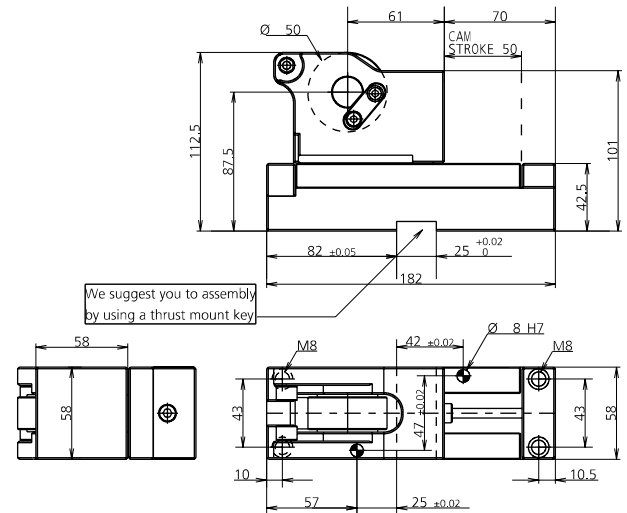
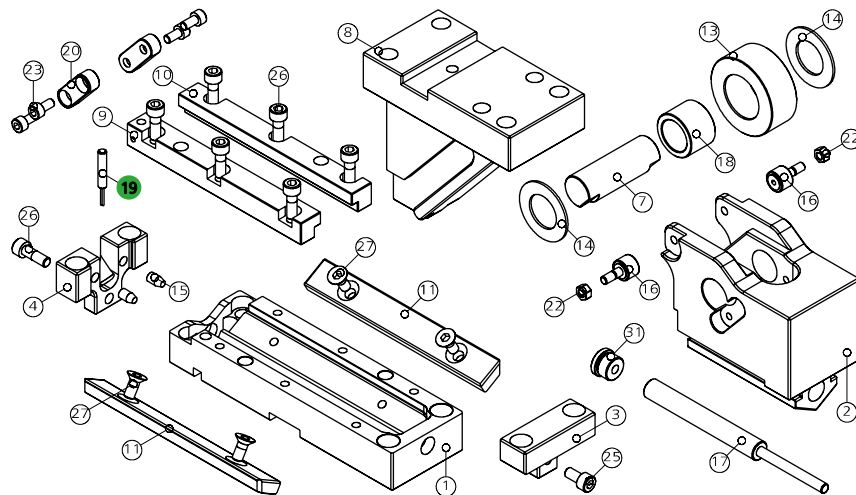
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0149.P030** INCLINATION **+10°** OPTION CODE **9003.0002**



# 0149.P050 - CAM ROLLER P050

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **50 daN** SFORZO MAX TRANCIO **3400 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **100 daN** CUTTING MAX FORCE  
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE

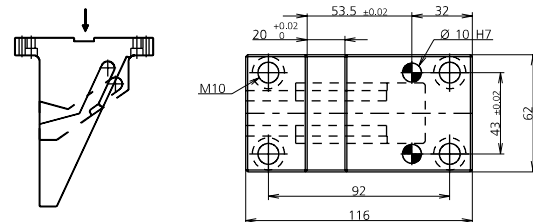


| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0049.0050</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | <b>8007.0049.0000</b>         | SLITTA / SLIDER / LAGERKEIL                                    | 1        |
| 003  | <b>8088.0049.0000.001</b>     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 004  | <b>8088.0049.0000.002</b>     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 007  | <b>8005.0580.0417.200.001</b> | PERNO / PIN / STIFT  | 1        |
| 008  | <b>8090.0000.0050.000</b>     | CUNEO / WEDGE / DRUCKSTÜCK 0                                   | 1*OPTION |
| 008  | <b>8090.0000.0050.605</b>     | CUNEO / WEDGE / DRUCKSTÜCK +5                                  | 1*OPTION |
| 008  | <b>8090.0000.0050.610</b>     | CUNEO / WEDGE / DRUCKSTÜCK +10                                 | 1*OPTION |
| 008  | <b>8090.0000.0050.615</b>     | CUNEO / WEDGE / DRUCKSTÜCK +15                                 | 1*OPTION |
| 008  | <b>8090.0000.0050.705</b>     | CUNEO / WEDGE / DRUCKSTÜCK -5                                  | 1*OPTION |
| 008  | <b>8090.0000.0050.710</b>     | CUNEO / WEDGE / DRUCKSTÜCK -10                                 | 1*OPTION |
| 008  | <b>8090.0000.0050.715</b>     | CUNEO / WEDGE / DRUCKSTÜCK -15                                 | 1*OPTION |
| 008  | <b>8090.0000.0050.720</b>     | CUNEO / WEDGE / DRUCKSTÜCK -20                                 | 1*OPTION |
| 008  | <b>8090.0000.0050.725</b>     | CUNEO / WEDGE / DRUCKSTÜCK -25                                 | 1*OPTION |
| 008  | <b>8090.0000.0050.730</b>     | CUNEO / WEDGE / DRUCKSTÜCK -30                                 | 1*OPTION |
| 008  | <b>8090.0000.0050.735</b>     | CUNEO / WEDGE / DRUCKSTÜCK -35                                 | 1*OPTION |
| 008  | <b>8090.0000.0050.740</b>     | CUNEO / WEDGE / DRUCKSTÜCK -40                                 | 1*OPTION |
| 008  | <b>8090.0000.0050.745</b>     | CUNEO / WEDGE / DRUCKSTÜCK -45                                 | 1*OPTION |
| 008  | <b>8090.0000.0050.750</b>     | CUNEO / WEDGE / DRUCKSTÜCK -50                                 | 1*OPTION |
| 009  | <b>8086.1415.0165.155.001</b> | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 010  | <b>8086.1415.0165.155.002</b> | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 011  | <b>8012.1440.0195.080.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE              | 2        |
| 013  | <b>8004.0500.0205.280.001</b> | ROTELLA / ROLLER / ROLLE                                       | 1        |
| 014  | <b>9033.2238.015</b>          | RALLA / THRUST WASHER / DRUCKSCHEIBE                           | 2        |
| 015  | <b>9020.06.10.E090</b>        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 2        |
| 016  | <b>8005.0230.0100.130.001</b> | PERNO / PIN / STIFT  | 2        |
| 017  | <b>9000.0050.0012.001</b>     | CILINDRO AD AZOTO / NITROGER CYLINDER / STICKSTOFFZYLINDER     | 1        |
| 018  | <b>9035.2028.200.001</b>      | BOCCOLA / BUSH / BUCHSE  | 1        |
| 019  | <b>9003.0002</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 020  | <b>8087.0350.0120.080.001</b> | CHIAVETTA KEY / SCHLÜSSEL                                      | 2        |
| 022  | <b>9014.05.005.008.1.4032</b> | DADO / NUT / MUTTER M5   | 2        |
| 023  | <b>9007.05.010.129.1.4762</b> | VITE / SCREW / SCHRAUBE M5X10                                  | 4        |
| 025  | <b>9007.06.012.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X12                                  | 1        |
| 026  | <b>9007.06.018.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X18                                  | 7        |
| 027  | <b>9007.06.014.129.1.5933</b> | VITE / SCREW / SCHRAUBE M6X14                                  | 4        |
| 029  | <b>9013.0510.10.1.7089</b>    | RONDELLA / WASHER / UNTERLEGSCHIEBE                            | 2        |
| 031  | <b>8089.0160.0110.001</b>     | DISTANZIALE / SPACER / ABSTANDSHALTER                          | 1        |

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



**19** PATENT PENDING

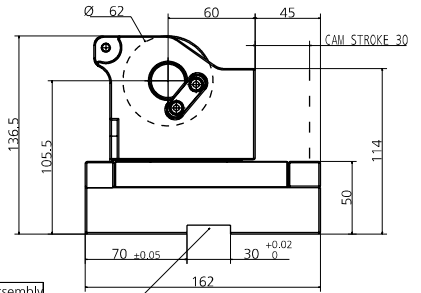
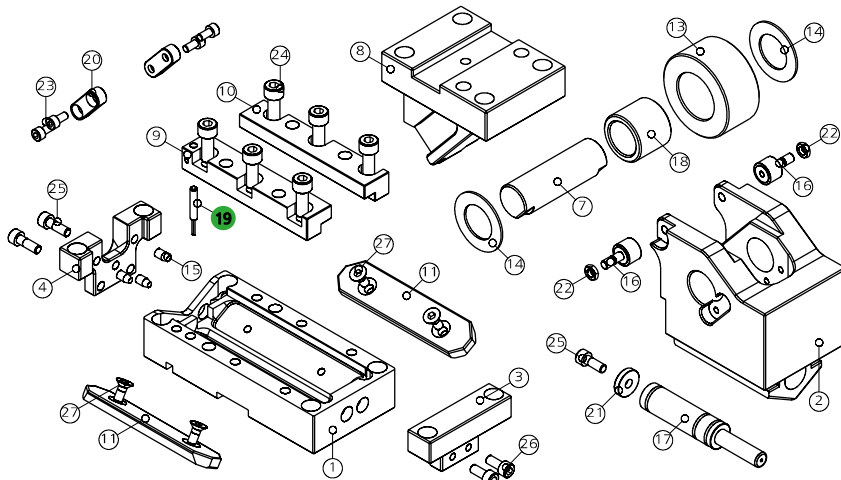
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0149.P050** INCLINATION **+10°** OPTION CODE **9003.0002**

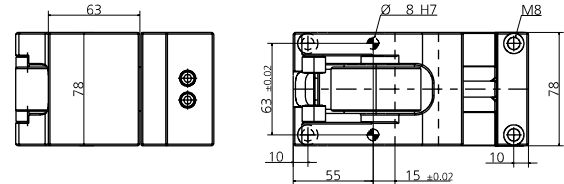
# 0149.P130 - CAM ROLLER P130

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **170 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **250 daN**  
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **4500 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE

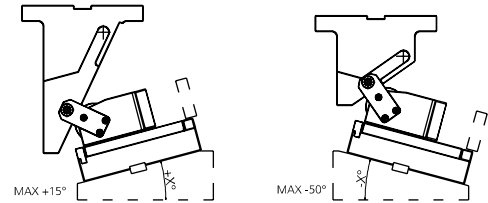


We suggest you to assembly by using a thrust mount key

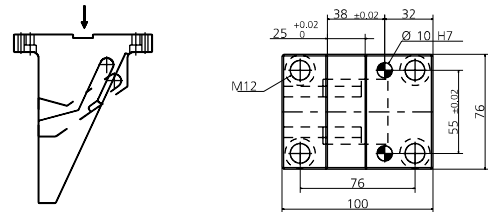


| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0049.0130</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | <b>8007.0049.0100</b>         | SLITTA / SLIDER / LAGERKEIL                                    | 1        |
| 003  | <b>8088.0049.0100.001</b>     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 004  | <b>8088.0049.0100.002</b>     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 007  | <b>8005.0780.0617.250.001</b> | PERNO / PIN / STIFT  | 1        |
| 008  | <b>8090.0001.0030.000</b>     | CUNEO / WEDGE / DRUCKSTÜCK 0                                   | 1*OPTION |
| 008  | <b>8090.0001.0030.605</b>     | CUNEO / WEDGE / DRUCKSTÜCK +5                                  | 1*OPTION |
| 008  | <b>8090.0001.0030.610</b>     | CUNEO / WEDGE / DRUCKSTÜCK +10                                 | 1*OPTION |
| 008  | <b>8090.0001.0030.615</b>     | CUNEO / WEDGE / DRUCKSTÜCK +15                                 | 1*OPTION |
| 008  | <b>8090.0001.0030.705</b>     | CUNEO / WEDGE / DRUCKSTÜCK -5                                  | 1*OPTION |
| 008  | <b>8090.0001.0030.710</b>     | CUNEO / WEDGE / DRUCKSTÜCK -10                                 | 1*OPTION |
| 008  | <b>8090.0001.0030.715</b>     | CUNEO / WEDGE / DRUCKSTÜCK -15                                 | 1*OPTION |
| 008  | <b>8090.0001.0030.720</b>     | CUNEO / WEDGE / DRUCKSTÜCK -20                                 | 1*OPTION |
| 008  | <b>8090.0001.0030.725</b>     | CUNEO / WEDGE / DRUCKSTÜCK -25                                 | 1*OPTION |
| 008  | <b>8090.0001.0030.730</b>     | CUNEO / WEDGE / DRUCKSTÜCK -30                                 | 1*OPTION |
| 008  | <b>8090.0001.0030.735</b>     | CUNEO / WEDGE / DRUCKSTÜCK -35                                 | 1*OPTION |
| 008  | <b>8090.0001.0030.740</b>     | CUNEO / WEDGE / DRUCKSTÜCK -40                                 | 1*OPTION |
| 008  | <b>8090.0001.0030.745</b>     | CUNEO / WEDGE / DRUCKSTÜCK -45                                 | 1*OPTION |
| 008  | <b>8090.0001.0030.750</b>     | CUNEO / WEDGE / DRUCKSTÜCK -50                                 | 1*OPTION |
| 009  | <b>8086.1190.0235.180.001</b> | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 010  | <b>8086.1190.0235.180.002</b> | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 011  | <b>8012.1200.0270.080.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE              | 2        |
| 013  | <b>8004.0620.0305.350.001</b> | ROTELLA / ROLLER / ROLLE                                       | 1        |
| 014  | <b>9033.2644.015</b>          | RALLA / THRUST WASHER / DRUCKSCHEIBE                           | 2        |
| 015  | <b>9020.06.10.E090</b>        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 3        |
| 016  | <b>8005.0270.0110.160.001</b> | PERNO / PIN / STIFT  | 2        |
| 017  | <b>9000.0038.0019.007</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 1        |
| 018  | <b>9035.2535.300.001</b>      | BOCCOLA / BUSH / BUCHSE  | 1        |
| 019  | <b>9003.0002</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 020  | <b>8087.0350.0120.080.001</b> | CHIAVETTA / KEY / SCHLÜSSEL                                    | 2        |
| 021  | <b>8089.0198.0040.001</b>     | DISTANZIALE / SPACER / ABSTANDSHALTER                          | 1        |
| 022  | <b>9014.06.005.008.1.4032</b> | DADO / NUT / MUTTER M6   | 2        |
| 023  | <b>9007.05.010.129.1.4762</b> | VITE / SCREW / SCHRAUBE M5X10                                  | 4        |
| 024  | <b>9007.08.020.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X20                                  | 6        |
| 025  | <b>9007.06.020.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X20                                  | 3        |
| 026  | <b>9007.06.014.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X14                                  | 2        |
| 027  | <b>9007.06.014.129.1.5933</b> | VITE / SCREW / SCHRAUBE M6X14                                  | 4        |

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



**19** PATENT PENDING

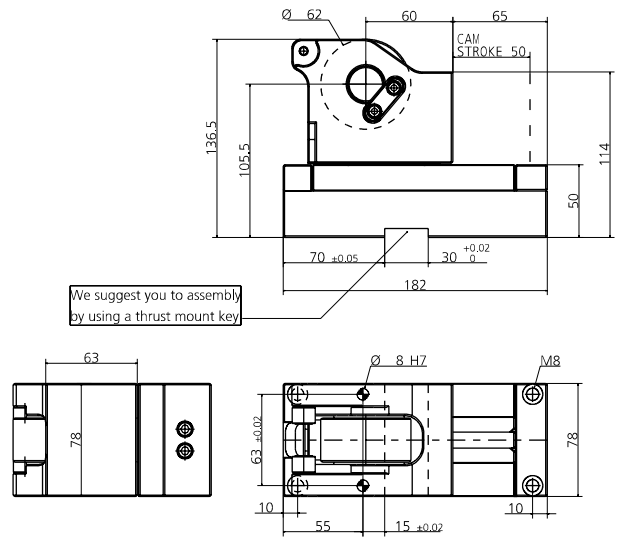
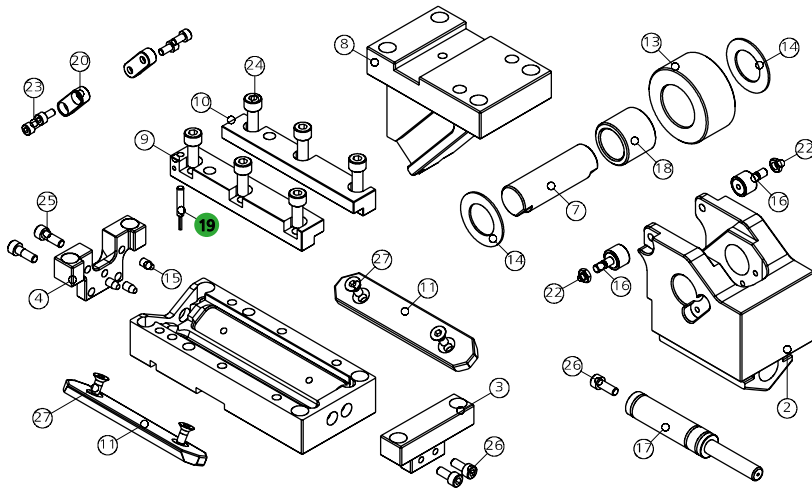
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0149.P130** INCLINATION **+10°** OPTION CODE **9003.0002**

# 0149.P150 - CAM ROLLER P150

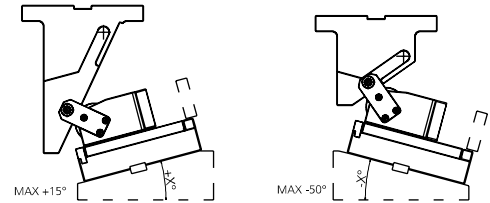
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **170 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **340 daN**  
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **4500 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE

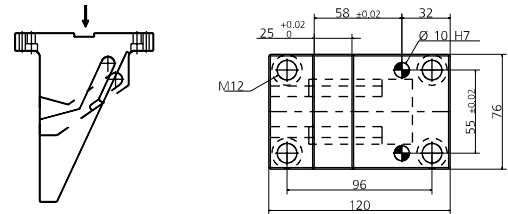


| POS. | CODE                   | DESCRIPTION  | Q.TY     |
|------|------------------------|--|----------|
| 001  | 8000.0049.0150         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | 8007.0049.0100         | SLITTA / SLIDER / LAGERKEIL                                    | 1        |
| 003  | 8088.0049.0100.001     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 004  | 8088.0049.0100.002     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 007  | 8005.0780.0617.250.001 | PERNO / PIN / STIFT  | 1        |
| 008  | 8090.0001.0050.000     | CUNEO / WEDGE / DRUCKSTÜCK 0                                   | 1*OPTION |
| 008  | 8090.0001.0050.605     | CUNEO / WEDGE / DRUCKSTÜCK +5                                  | 1*OPTION |
| 008  | 8090.0001.0050.610     | CUNEO / WEDGE / DRUCKSTÜCK +10                                 | 1*OPTION |
| 008  | 8090.0001.0050.615     | CUNEO / WEDGE / DRUCKSTÜCK +15                                 | 1*OPTION |
| 008  | 8090.0001.0050.705     | CUNEO / WEDGE / DRUCKSTÜCK -5                                  | 1*OPTION |
| 008  | 8090.0001.0050.710     | CUNEO / WEDGE / DRUCKSTÜCK -10                                 | 1*OPTION |
| 008  | 8090.0001.0050.715     | CUNEO / WEDGE / DRUCKSTÜCK -15                                 | 1*OPTION |
| 008  | 8090.0001.0050.720     | CUNEO / WEDGE / DRUCKSTÜCK -20                                 | 1*OPTION |
| 008  | 8090.0001.0050.725     | CUNEO / WEDGE / DRUCKSTÜCK -25                                 | 1*OPTION |
| 008  | 8090.0001.0050.730     | CUNEO / WEDGE / DRUCKSTÜCK -30                                 | 1*OPTION |
| 008  | 8090.0001.0050.735     | CUNEO / WEDGE / DRUCKSTÜCK -35                                 | 1*OPTION |
| 008  | 8090.0001.0050.740     | CUNEO / WEDGE / DRUCKSTÜCK -40                                 | 1*OPTION |
| 008  | 8090.0001.0050.745     | CUNEO / WEDGE / DRUCKSTÜCK -45                                 | 1*OPTION |
| 008  | 8090.0001.0050.750     | CUNEO / WEDGE / DRUCKSTÜCK -50                                 | 1*OPTION |
| 009  | 8086.1390.0235.180.001 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 010  | 8086.1390.0235.180.002 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 011  | 8012.1400.0270.080.001 | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE              | 2        |
| 013  | 8004.0620.0305.350.001 | ROTELLA / ROLLER / ROLLE                                       | 1        |
| 014  | 9033.2644.015          | RALLA / THRUST WASHER / DRUCKSCHEIBE                           | 2        |
| 015  | 9020.06.10.E090        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 3        |
| 016  | 8005.0270.0110.160.001 | PERNO / PIN / STIFT  | 2        |
| 017  | 9000.0050.0019.004     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 1        |
| 018  | 9035.2535.300.001      | BOCCOLA / BUSH / BUCHSE  | 1        |
| 019  | 9003.0002              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 020  | 8087.0350.0120.080.001 | CHIAVETTA / KEY / SCHLÜSSEL                                    | 2        |
| 022  | 9014.06.005.008.1.4032 | DADO / NUT / MUTTER M6   | 2        |
| 023  | 9007.05.010.129.1.4762 | VITE / SCREW / SCHRAUBE M5X10                                  | 4        |
| 024  | 9007.08.020.129.1.4762 | VITE / SCREW / SCHRAUBE M8X20                                  | 6        |
| 025  | 9007.06.020.129.1.4762 | VITE / SCREW / SCHRAUBE M6X20                                  | 2        |
| 026  | 9007.06.014.129.1.4762 | VITE / SCREW / SCHRAUBE M6X14                                  | 3        |
| 027  | 9007.06.014.129.1.5933 | VITE / SCREW / SCHRAUBE M6X14                                  | 4        |

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



**19** PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0149.P150** INCLINATION **+10°** OPTION CODE **9003.0002**

# 0149.P250 - CAM ROLLER P250

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE

170 daN

SFORZO MAX TRANCIO

7600 daN

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

CUTTING MAX FORCE

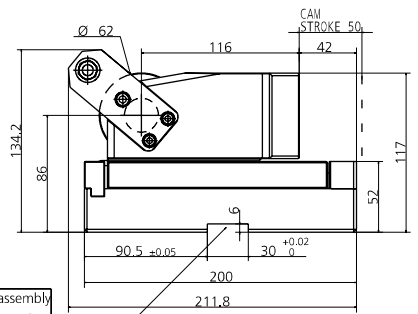
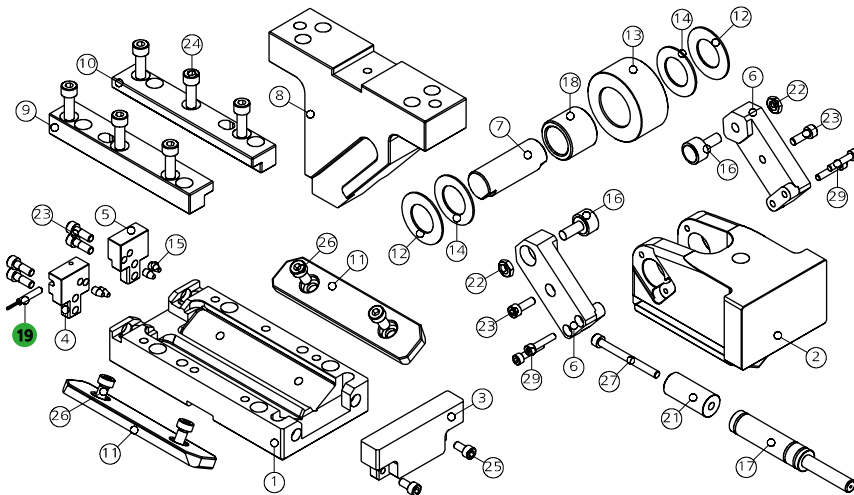
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION

340 daN

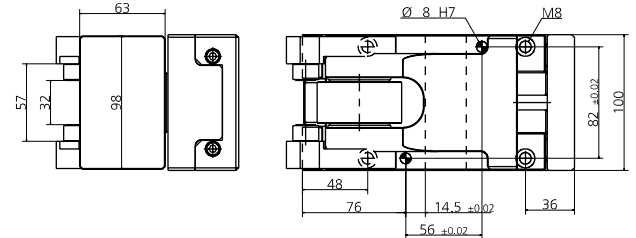
MAXIMALE SCHNITTKRAFT

ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

EFFORT MAXI DÉCOUPE

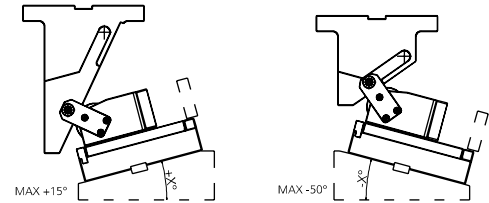


We suggest you to assembly by using a thrust mount key

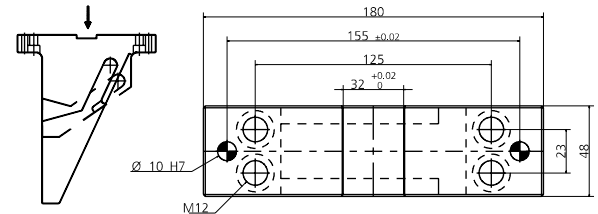


| POS. | CODE                   | DESCRIPTION  | Q.TY     |
|------|------------------------|--|----------|
| 001  | 8000.0049.0250         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | 8007.0049.0200         | SLITTA / SLIDER / LAGERKEIL                                    | 1        |
| 003  | 8088.0049.0200.001     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 004  | 8088.0049.0200.002     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 005  | 8088.0049.0200.003     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 006  | 8009.0049.0200         | STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG  | 2        |
| 007  | 8005.0670.0517.250.001 | PERNO / PIN / STIFT  | 1        |
| 008  | 8090.0203.0050.000     | CUNEO / WEDGE / DRUCKSTÜCK 0                                   | 1*OPTION |
| 008  | 8090.0203.0050.605     | CUNEO / WEDGE / DRUCKSTÜCK +5                                  | 1*OPTION |
| 008  | 8090.0203.0050.610     | CUNEO / WEDGE / DRUCKSTÜCK +10                                 | 1*OPTION |
| 008  | 8090.0203.0050.615     | CUNEO / WEDGE / DRUCKSTÜCK +15                                 | 1*OPTION |
| 008  | 8090.0203.0050.705     | CUNEO / WEDGE / DRUCKSTÜCK -5                                  | 1*OPTION |
| 008  | 8090.0203.0050.710     | CUNEO / WEDGE / DRUCKSTÜCK -10                                 | 1*OPTION |
| 008  | 8090.0203.0050.715     | CUNEO / WEDGE / DRUCKSTÜCK -15                                 | 1*OPTION |
| 008  | 8090.0203.0050.720     | CUNEO / WEDGE / DRUCKSTÜCK -20                                 | 1*OPTION |
| 008  | 8090.0203.0050.725     | CUNEO / WEDGE / DRUCKSTÜCK -25                                 | 1*OPTION |
| 008  | 8090.0203.0050.730     | CUNEO / WEDGE / DRUCKSTÜCK -30                                 | 1*OPTION |
| 008  | 8090.0203.0050.735     | CUNEO / WEDGE / DRUCKSTÜCK -35                                 | 1*OPTION |
| 008  | 8090.0203.0050.740     | CUNEO / WEDGE / DRUCKSTÜCK -40                                 | 1*OPTION |
| 008  | 8090.0203.0050.745     | CUNEO / WEDGE / DRUCKSTÜCK -45                                 | 1*OPTION |
| 008  | 8090.0203.0050.750     | CUNEO / WEDGE / DRUCKSTÜCK -50                                 | 1*OPTION |
| 009  | 8086.1620.0280.200.001 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 010  | 8086.1620.0280.200.002 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 011  | 8012.1550.0340.100.001 | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE              | 2        |
| 012  | 8006.0215.0460.255.001 | RONDELLA / WASHER / UNTERLEGSCHIBE                             | 2        |
| 013  | 8004.0620.0305.350.001 | ROTELLA / ROLLER / ROLLE                                       | 1        |
| 014  | 9033.2644.015          | RALLA / THRUST WASHER / DRUCKSCHEIBE                           | 2        |
| 015  | 9020.06.10.E090        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 4        |
| 016  | 8005.0320.0120.190.001 | PERNO / PIN / STIFT  | 2        |
| 017  | 9000.0050.0019.004     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 1        |
| 018  | 9035.2535.300.001      | BOCCOLA / BUSH / BUCHSE  | 1        |
| 019  | 9003.0002              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 021  | 8089.0198.0450.001     | DISTANZIALE / SPACER / ABSTANDSHALTER                          | 1        |
| 022  | 9014.08.005.008.1.4035 | DADO / NUT / MUTTER M8   | 2        |
| 023  | 9007.06.020.129.1.4762 | VITE / SCREW / SCHRAUBE M6X20                                  | 6        |
| 024  | 9007.08.025.129.1.4762 | VITE / SCREW / SCHRAUBE M8X25                                  | 6        |
| 025  | 9007.06.012.129.1.4762 | VITE / SCREW / SCHRAUBE M6X12                                  | 2        |
| 026  | 9007.08.016.129.1.9327 | VITE / SCREW / SCHRAUBE M8X16                                  | 4        |
| 027  | 9007.06.065.129.1.4762 | VITE / SCREW / SCHRAUBE M6X65                                  | 1        |
| 029  | 9007.05.025.129.1.4762 | VITE / SCREW / SCHRAUBE M5X25                                  | 4        |

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

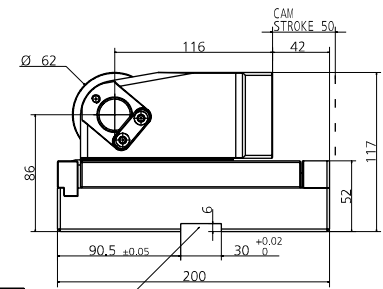
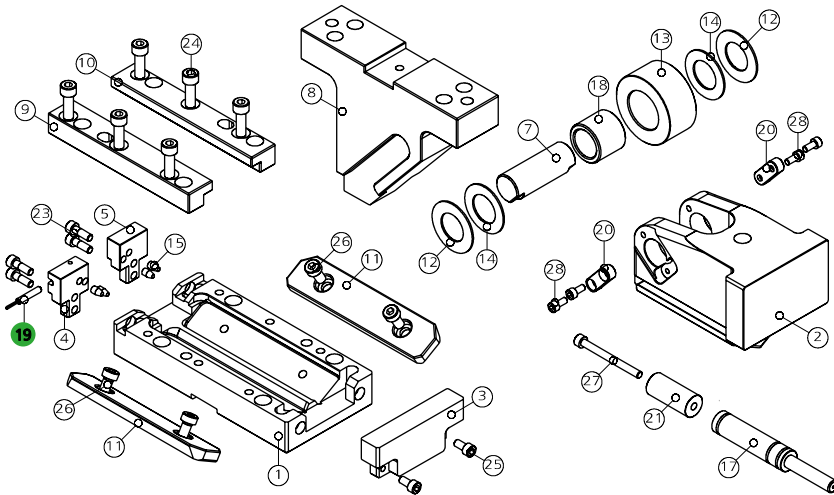
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0149.P250** INCLINATION **+10°** OPTION CODE **9003.0002**

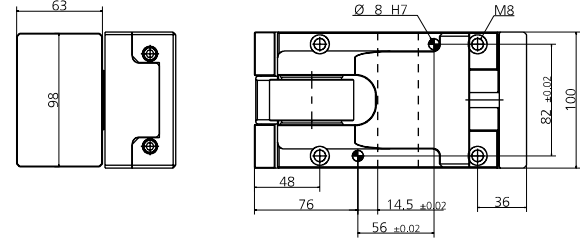
# 0149.K250 - CAM ROLLER K250

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE  
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION  
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

**170 daN** SFORZO MAX TRANCIO  
CUTTING MAX FORCE  
**340 daN** MAXIMALE SCHNITTKRAFT  
EFFORT MAXI DÉCOUPE

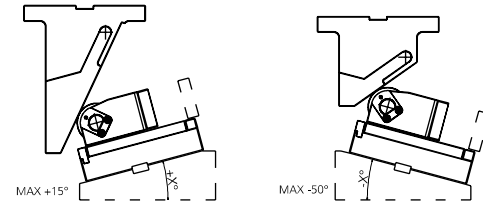


We suggest you to assembly by using a thrust mount key

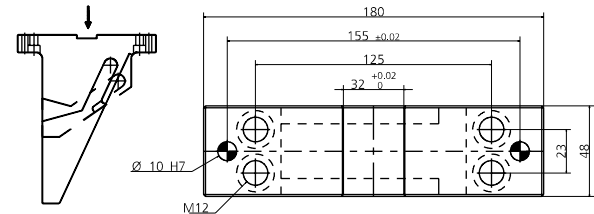


| POS. | CODE                   | DESCRIPTION  | Q.TY     |
|------|------------------------|--|----------|
| 001  | 8000.0049.0250         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | 8007.0049.0200         | SLITTA / SLIDER / LAGERKEIL                                    | 1        |
| 003  | 8088.0049.0200.001     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 004  | 8088.0049.0200.002     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 005  | 8088.0049.0200.003     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 007  | 8005.0670.0517.250.001 | PERNO / PIN / STIFT  | 1        |
| 008  | 8090.0203.0050.000     | CUNEO / WEDGE / DRUCKSTÜCK 0                                   | 1*OPTION |
| 008  | 8090.0203.0050.605     | CUNEO / WEDGE / DRUCKSTÜCK +5                                  | 1*OPTION |
| 008  | 8090.0203.0050.610     | CUNEO / WEDGE / DRUCKSTÜCK +10                                 | 1*OPTION |
| 008  | 8090.0203.0050.615     | CUNEO / WEDGE / DRUCKSTÜCK +15                                 | 1*OPTION |
| 008  | 8090.0203.0050.705     | CUNEO / WEDGE / DRUCKSTÜCK -5                                  | 1*OPTION |
| 008  | 8090.0203.0050.710     | CUNEO / WEDGE / DRUCKSTÜCK -10                                 | 1*OPTION |
| 008  | 8090.0203.0050.715     | CUNEO / WEDGE / DRUCKSTÜCK -15                                 | 1*OPTION |
| 008  | 8090.0203.0050.720     | CUNEO / WEDGE / DRUCKSTÜCK -20                                 | 1*OPTION |
| 008  | 8090.0203.0050.725     | CUNEO / WEDGE / DRUCKSTÜCK -25                                 | 1*OPTION |
| 008  | 8090.0203.0050.730     | CUNEO / WEDGE / DRUCKSTÜCK -30                                 | 1*OPTION |
| 008  | 8090.0203.0050.735     | CUNEO / WEDGE / DRUCKSTÜCK -35                                 | 1*OPTION |
| 008  | 8090.0203.0050.740     | CUNEO / WEDGE / DRUCKSTÜCK -40                                 | 1*OPTION |
| 008  | 8090.0203.0050.745     | CUNEO / WEDGE / DRUCKSTÜCK -45                                 | 1*OPTION |
| 008  | 8090.0203.0050.750     | CUNEO / WEDGE / DRUCKSTÜCK -50                                 | 1*OPTION |
| 009  | 8086.1620.0280.200.001 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 010  | 8086.1620.0280.200.002 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 011  | 8012.1550.0340.100.001 | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE              | 2        |
| 012  | 8006.0215.0460.255.001 | RONDELLA / WASHER / UNTERLEGSCHEIBE                            | 2        |
| 013  | 8004.0620.0305.350.001 | ROTELLA / ROLLER / ROLLE                                       | 1        |
| 014  | 9033.2644.015          | RALLA / THRUST WASHER / DRUCKSCHEIBE                           | 2        |
| 015  | 9020.06.10.E090        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 4        |
| 017  | 9000.0050.0019.004     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 1        |
| 018  | 9035.2535.300.001      | BOCCOLA / BUSH / BÜCHSE  | 1        |
| 019  | 9003.0002              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 020  | 8087.0350.0120.080.001 | CHIAVETTA / KEY / SCHLÜSSEL                                    | 2        |
| 021  | 8089.0198.0450.001     | DISTANZIALE / SPACER / ABSTANDSHALTER                          | 1        |
| 023  | 9007.06.020.129.1.4762 | VITE / SCREW / SCHRAUBE M6X20                                  | 4        |
| 024  | 9007.08.025.129.1.4762 | VITE / SCREW / SCHRAUBE M8X25                                  | 6        |
| 025  | 9007.06.012.129.1.4762 | VITE / SCREW / SCHRAUBE M6X12                                  | 2        |
| 026  | 9007.08.016.129.1.9327 | VITE / SCREW / SCHRAUBE M8X16                                  | 4        |
| 027  | 9007.06.065.129.1.4762 | VITE / SCREW / SCHRAUBE M6X65                                  | 1        |
| 028  | 9007.05.012.129.1.4762 | VITE / SCREW / SCHRAUBE M5X12                                  | 4        |

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



**19** PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0149.K250** INCLINATION **+10°** OPTION CODE **9003.0002**



# 0149.P280 - CAM ROLLER P280

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE

170 daN

SFORZO MAX TRANCIO

7600 daN

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

CUTTING MAX FORCE

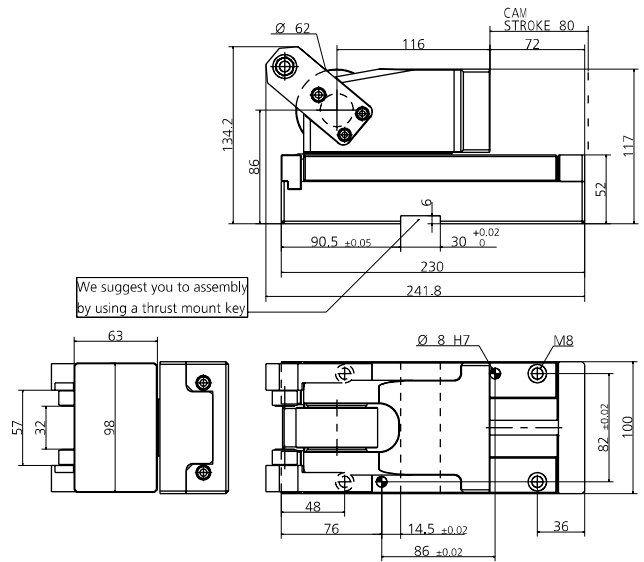
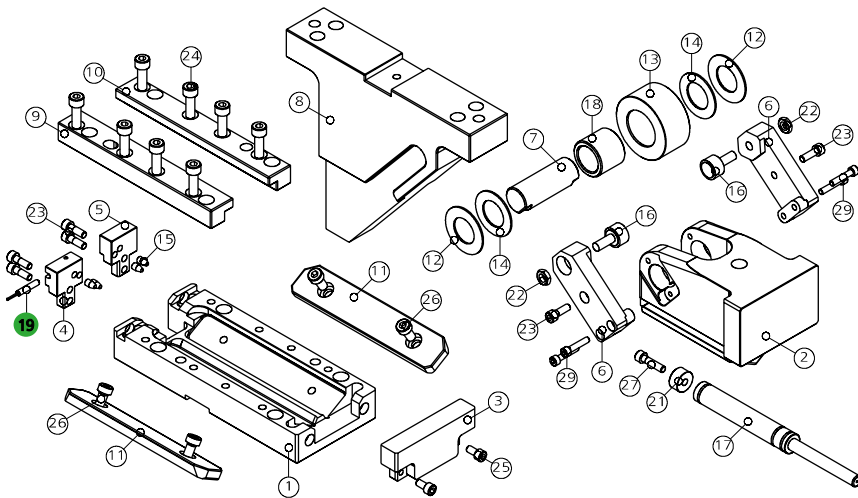
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION

340 daN

MAXIMALE SCHNITTKRAFT

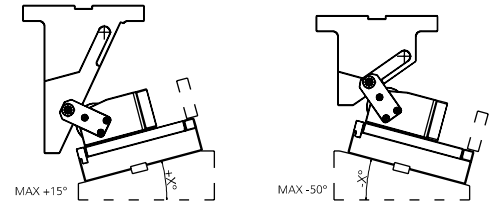
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

EFFORT MAXI DÉCOUPE

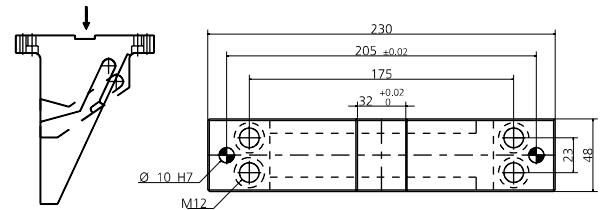


| POS. | CODE                   | DESCRIPTION  | Q.TY     |
|------|------------------------|--|----------|
| 001  | 8000.0049.0280         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | 8007.0049.0200         | SLITTA / SLIDER / LAGERKEIL                                    | 1        |
| 003  | 8088.0049.0200.001     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 004  | 8088.0049.0200.002     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 005  | 8088.0049.0200.003     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 006  | 8009.0049.0200         | STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG  | 2        |
| 007  | 8005.0670.0517.250.001 | PERNO / PIN / STIFT  | 1        |
| 008  | 8090.0203.A080.000     | CUNEO / WEDGE / DRUCKSTÜCK 0                                   | 1*OPTION |
| 008  | 8090.0203.A080.605     | CUNEO / WEDGE / DRUCKSTÜCK +5                                  | 1*OPTION |
| 008  | 8090.0203.A080.610     | CUNEO / WEDGE / DRUCKSTÜCK +10                                 | 1*OPTION |
| 008  | 8090.0203.A080.615     | CUNEO / WEDGE / DRUCKSTÜCK +15                                 | 1*OPTION |
| 008  | 8090.0203.A080.705     | CUNEO / WEDGE / DRUCKSTÜCK -5                                  | 1*OPTION |
| 008  | 8090.0203.A080.710     | CUNEO / WEDGE / DRUCKSTÜCK -10                                 | 1*OPTION |
| 008  | 8090.0203.A080.715     | CUNEO / WEDGE / DRUCKSTÜCK -15                                 | 1*OPTION |
| 008  | 8090.0203.A080.720     | CUNEO / WEDGE / DRUCKSTÜCK -20                                 | 1*OPTION |
| 008  | 8090.0203.A080.725     | CUNEO / WEDGE / DRUCKSTÜCK -25                                 | 1*OPTION |
| 008  | 8090.0203.A080.730     | CUNEO / WEDGE / DRUCKSTÜCK -30                                 | 1*OPTION |
| 008  | 8090.0203.A080.735     | CUNEO / WEDGE / DRUCKSTÜCK -35                                 | 1*OPTION |
| 008  | 8090.0203.A080.740     | CUNEO / WEDGE / DRUCKSTÜCK -40                                 | 1*OPTION |
| 008  | 8090.0203.A080.745     | CUNEO / WEDGE / DRUCKSTÜCK -45                                 | 1*OPTION |
| 008  | 8090.0203.A080.750     | CUNEO / WEDGE / DRUCKSTÜCK -50                                 | 1*OPTION |
| 009  | 8086.1920.0280.200.001 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 010  | 8086.1920.0280.200.002 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 011  | 8012.1750.0340.100.001 | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE              | 2        |
| 012  | 8006.0215.0460.255.001 | RONDELLA / WASHER / UNTERLEGSCHIBE                             | 2        |
| 013  | 8004.0620.0305.350.001 | ROTELLA / ROLLER / ROLLE                                       | 1        |
| 014  | 9033.2644.015          | RALLA / THRUST WASHER / DRUCKSCHEIBE                           | 2        |
| 015  | 9020.06.10.E090        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 4        |
| 016  | 8005.0320.0120.190.001 | PERNO / PIN / STIFT  | 2        |
| 017  | 9000.0080.0019.001     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 1        |
| 018  | 9035.2535.300.001      | BOCCOLA / BUSH / BUCHSE  | 1        |
| 019  | 9003.0002              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 021  | 8089.0198.0100.001     | DISTANZIALE / SPACER / ABSTANDSHALTER                          | 1        |
| 022  | 9014.08.005.008.1.4035 | DADO / NUT / MUTTER M8   | 2        |
| 023  | 9007.06.020.129.1.4762 | VITE / SCREW / SCHRAUBE M6X20                                  | 6        |
| 024  | 9007.08.025.129.1.4762 | VITE / SCREW / SCHRAUBE M8X25                                  | 8        |
| 025  | 9007.06.012.129.1.4762 | VITE / SCREW / SCHRAUBE M6X12                                  | 2        |
| 026  | 9007.08.016.129.1.9327 | VITE / SCREW / SCHRAUBE M8X16                                  | 4        |
| 027  | 9007.06.025.129.1.4762 | VITE / SCREW / SCHRAUBE M6X25                                  | 1        |
| 029  | 9007.05.025.129.1.4762 | VITE / SCREW / SCHRAUBE M5X25                                  | 4        |

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

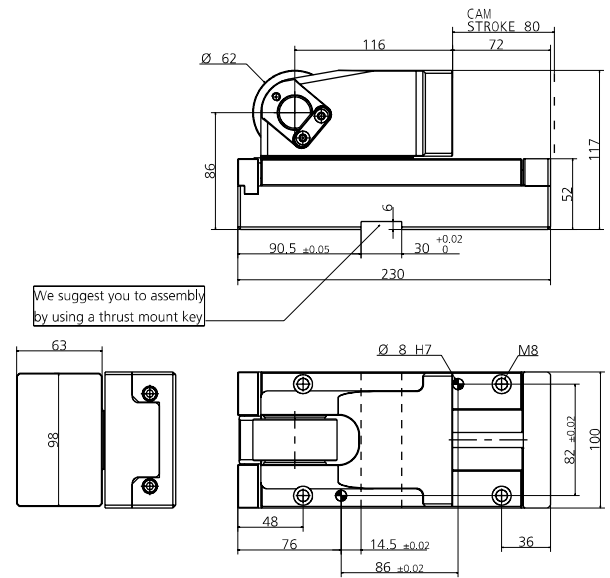
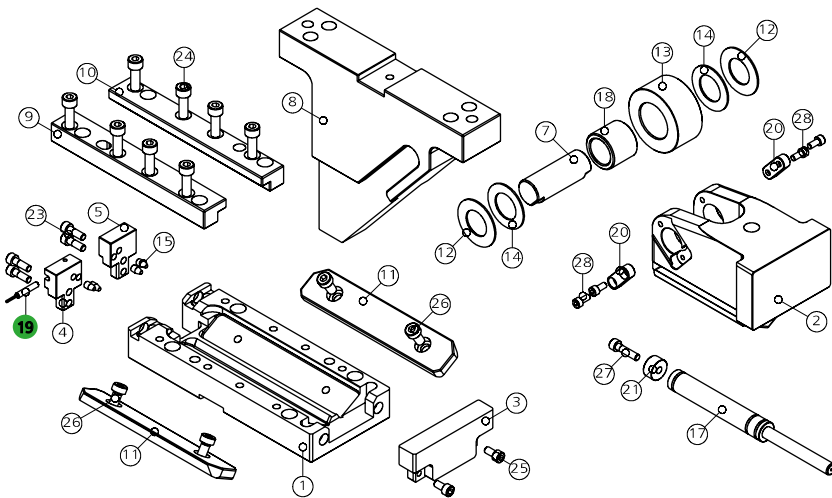
MODEL **0149.P280** INCLINATION **+10°** OPTION CODE **9003.0002**



# 0149.K280 - CAM ROLLER K280

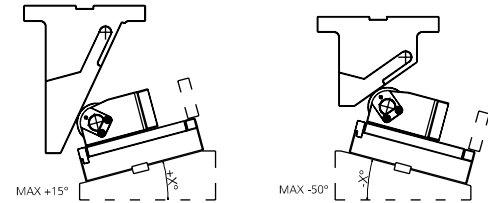
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **170 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **340 daN**  
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **7600 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE

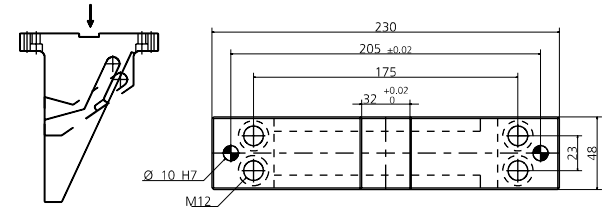


| POS. | CODE                   | DESCRIPTION  | Q.TY     |
|------|------------------------|--|----------|
| 001  | 8000.0049.0280         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | 8007.0049.0200         | SLITTA / SLIDER / LAGERKEIL                                    | 1        |
| 003  | 8088.0049.0200.001     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 004  | 8088.0049.0200.002     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 005  | 8088.0049.0200.003     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 007  | 8005.0670.0517.250.001 | PERNO / PIN / STIFT  | 1        |
| 008  | 8090.0203.A080.000     | CUNEO / WEDGE / DRUCKSTÜCK 0                                   | 1*OPTION |
| 008  | 8090.0203.A080.605     | CUNEO / WEDGE / DRUCKSTÜCK +5                                  | 1*OPTION |
| 008  | 8090.0203.A080.610     | CUNEO / WEDGE / DRUCKSTÜCK +10                                 | 1*OPTION |
| 008  | 8090.0203.A080.615     | CUNEO / WEDGE / DRUCKSTÜCK +15                                 | 1*OPTION |
| 008  | 8090.0203.A080.705     | CUNEO / WEDGE / DRUCKSTÜCK -5                                  | 1*OPTION |
| 008  | 8090.0203.A080.710     | CUNEO / WEDGE / DRUCKSTÜCK -10                                 | 1*OPTION |
| 008  | 8090.0203.A080.715     | CUNEO / WEDGE / DRUCKSTÜCK -15                                 | 1*OPTION |
| 008  | 8090.0203.A080.720     | CUNEO / WEDGE / DRUCKSTÜCK -20                                 | 1*OPTION |
| 008  | 8090.0203.A080.725     | CUNEO / WEDGE / DRUCKSTÜCK -25                                 | 1*OPTION |
| 008  | 8090.0203.A080.730     | CUNEO / WEDGE / DRUCKSTÜCK -30                                 | 1*OPTION |
| 008  | 8090.0203.A080.735     | CUNEO / WEDGE / DRUCKSTÜCK -35                                 | 1*OPTION |
| 008  | 8090.0203.A080.740     | CUNEO / WEDGE / DRUCKSTÜCK -40                                 | 1*OPTION |
| 008  | 8090.0203.A080.745     | CUNEO / WEDGE / DRUCKSTÜCK -45                                 | 1*OPTION |
| 008  | 8090.0203.A080.750     | CUNEO / WEDGE / DRUCKSTÜCK -50                                 | 1*OPTION |
| 009  | 8086.1920.0280.200.001 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 010  | 8086.1920.0280.200.002 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 011  | 8012.1750.0340.100.001 | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE              | 2        |
| 012  | 8006.0215.0460.255.001 | RONDELLA / WASHER / UNTERLEGSCHEIBE                            | 2        |
| 013  | 8004.0620.0305.350.001 | ROTELLA / ROLLER / ROLLE                                       | 1        |
| 014  | 9033.2644.015          | RALLA / THRUST WASHER / DRUCKSCHEIBE                           | 2        |
| 015  | 9020.06.10.E090        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 4        |
| 017  | 9000.0080.0019.001     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 1        |
| 018  | 9035.2535.300.001      | BOCCOLA / BUSH / BÜCHSE  | 1        |
| 019  | 9003.0002              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 020  | 8087.0350.0120.080.001 | CHIAVETTA / KEY / SCHLÜSSEL                                    | 2        |
| 021  | 8089.0198.0100.001     | DISTANZIALE / SPACER / ABSTANDSHALTER                          | 1        |
| 023  | 9007.06.020.129.1.4762 | VITE / SCREW / SCHRAUBE M6X20                                  | 4        |
| 024  | 9007.08.025.129.1.4762 | VITE / SCREW / SCHRAUBE M8X25                                  | 8        |
| 025  | 9007.06.012.129.1.4762 | VITE / SCREW / SCHRAUBE M6X12                                  | 2        |
| 026  | 9007.08.016.129.1.9327 | VITE / SCREW / SCHRAUBE M8X16                                  | 4        |
| 027  | 9007.06.025.129.1.4762 | VITE / SCREW / SCHRAUBE M6X25                                  | 1        |
| 028  | 9007.05.012.129.1.4762 | VITE / SCREW / SCHRAUBE M5X12                                  | 4        |

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

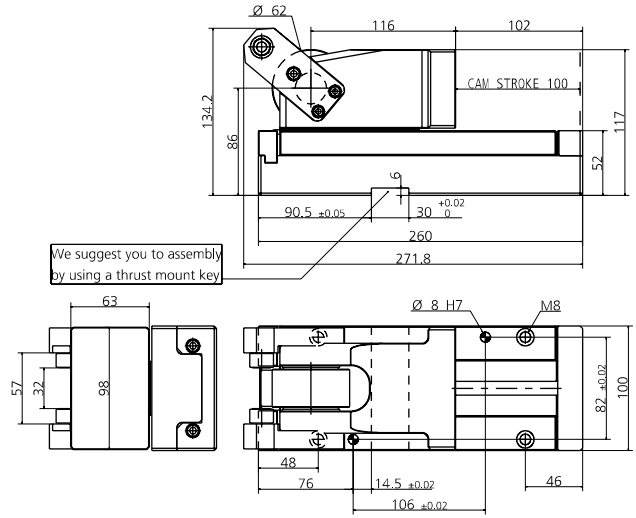
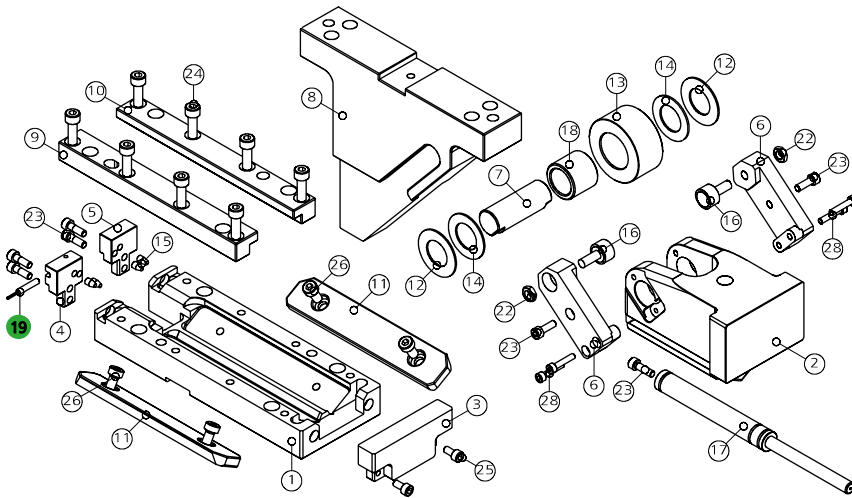
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0149.K280** INCLINATION **+10°** OPTION CODE **9003.0002**

# 0149.P2A0 - CAM ROLLER P2A0

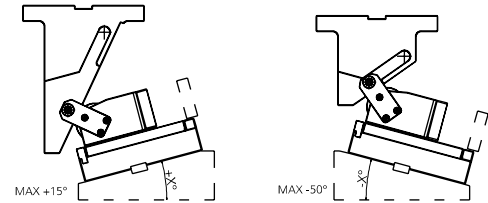
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **170 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **360 daN**  
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **7600 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE

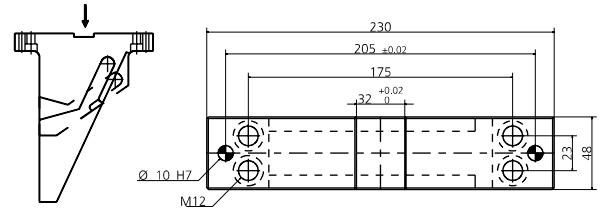


| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0049.02A0</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | <b>8007.0049.0200</b>         | SLITTA / SLIDER / LAGERKEIL                                    | 1        |
| 003  | <b>8088.0049.0200.001</b>     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 004  | <b>8088.0049.0200.002</b>     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 005  | <b>8088.0049.0200.003</b>     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 006  | <b>8009.0049.0200</b>         | STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG  | 2        |
| 007  | <b>8005.0670.0517.250.001</b> | PERNO / PIN / STIFT  | 1        |
| 008  | <b>8090.0203.A080.000</b>     | CUNEO / WEDGE / DRUCKSTÜCK 0                                   | 1*OPTION |
| 008  | <b>8090.0203.A080.605</b>     | CUNEO / WEDGE / DRUCKSTÜCK +5                                  | 1*OPTION |
| 008  | <b>8090.0203.A080.610</b>     | CUNEO / WEDGE / DRUCKSTÜCK +10                                 | 1*OPTION |
| 008  | <b>8090.0203.A080.615</b>     | CUNEO / WEDGE / DRUCKSTÜCK +15                                 | 1*OPTION |
| 008  | <b>8090.0203.A080.705</b>     | CUNEO / WEDGE / DRUCKSTÜCK -5                                  | 1*OPTION |
| 008  | <b>8090.0203.A080.710</b>     | CUNEO / WEDGE / DRUCKSTÜCK -10                                 | 1*OPTION |
| 008  | <b>8090.0203.A080.715</b>     | CUNEO / WEDGE / DRUCKSTÜCK -15                                 | 1*OPTION |
| 008  | <b>8090.0203.A080.720</b>     | CUNEO / WEDGE / DRUCKSTÜCK -20                                 | 1*OPTION |
| 008  | <b>8090.0203.A080.725</b>     | CUNEO / WEDGE / DRUCKSTÜCK -25                                 | 1*OPTION |
| 008  | <b>8090.0203.A080.730</b>     | CUNEO / WEDGE / DRUCKSTÜCK -30                                 | 1*OPTION |
| 008  | <b>8090.0203.A080.735</b>     | CUNEO / WEDGE / DRUCKSTÜCK -35                                 | 1*OPTION |
| 008  | <b>8090.0203.A080.740</b>     | CUNEO / WEDGE / DRUCKSTÜCK -40                                 | 1*OPTION |
| 008  | <b>8090.0203.A080.745</b>     | CUNEO / WEDGE / DRUCKSTÜCK -45                                 | 1*OPTION |
| 008  | <b>8090.0203.A080.750</b>     | CUNEO / WEDGE / DRUCKSTÜCK -50                                 | 1*OPTION |
| 009  | <b>8086.2220.0280.200.001</b> | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 010  | <b>8086.2220.0280.200.002</b> | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 011  | <b>8012.1850.0340.100.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE              | 2        |
| 012  | <b>8006.0215.0460.255.001</b> | RONDELLA / WASHER / UNTERLEGSCHIEBE                            | 2        |
| 013  | <b>8004.0620.0305.350.001</b> | ROTELLA / ROLLER / ROLLE                                       | 1        |
| 014  | <b>9033.2644.015</b>          | RALLA / THRUST WASHER / DRUCKSCHEIBE                           | 2        |
| 015  | <b>9020.06.10.E090</b>        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 4        |
| 016  | <b>8005.0320.0120.190.001</b> | PERNO / PIN / STIFT  | 2        |
| 017  | <b>9000.0100.0019.001</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 1        |
| 018  | <b>9035.2535.300.001</b>      | BOCCOLA / BUSH / BUCHSE  | 1        |
| 019  | <b>9003.0002</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 022  | <b>9014.08.005.008.1.4035</b> | DADO / NUT / MUTTER M8   | 2        |
| 023  | <b>9007.06.020.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X20                                  | 7        |
| 024  | <b>9007.08.025.129.1.4762</b> | VITE / SCREW / SCHRAUBE M8X25                                  | 8        |
| 025  | <b>9007.06.012.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X12                                  | 2        |
| 026  | <b>9007.08.016.129.1.9327</b> | VITE / SCREW / SCHRAUBE M8X16                                  | 4        |
| 028  | <b>9007.05.025.129.1.4762</b> | VITE / SCREW / SCHRAUBE M5X25                                  | 4        |

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



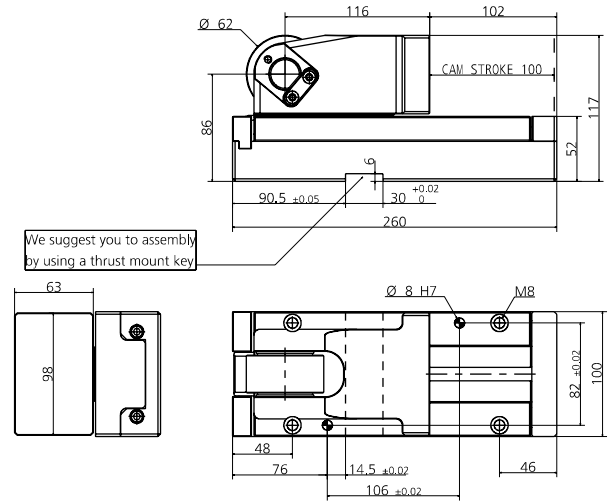
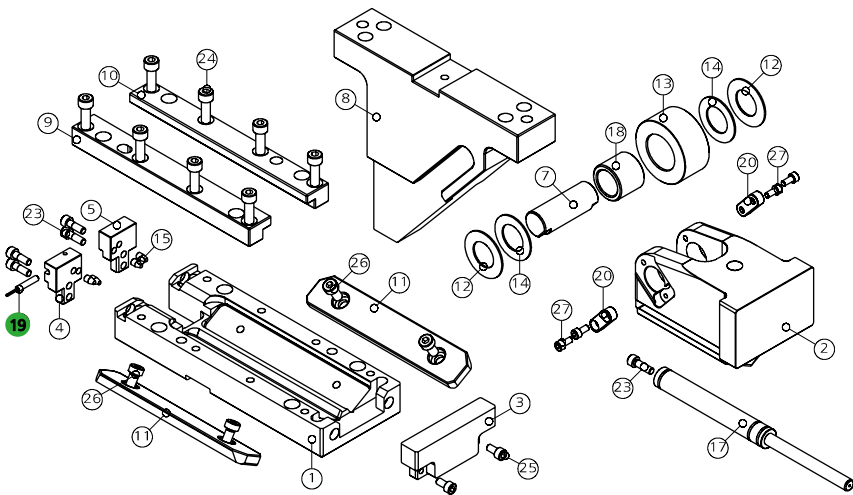
**19** PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0149.P2A0** INCLINATION **+10°** OPTION CODE **9003.0002**

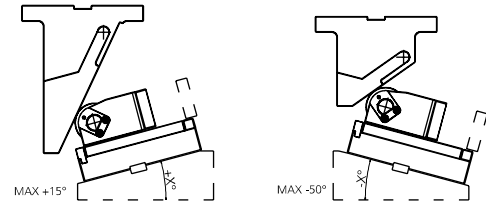
# 0149.K2A0 - CAM ROLLER K2A0

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **170 daN** SFORZO MAX TRANCIO **7600 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **360 daN** CUTTING MAX FORCE  
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE

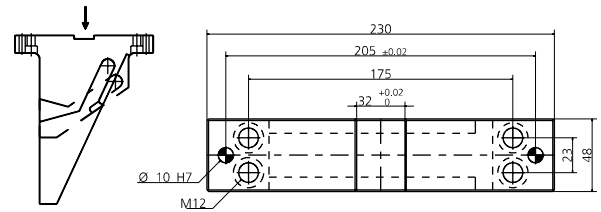


| POS. | CODE                   | DESCRIPTION  | Q.TY     |
|------|------------------------|--|----------|
| 001  | 8000.0049.02A0         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | 8007.0049.0200         | SLITTA / SLIDER / LAGERKEIL                                    | 1        |
| 003  | 8088.0049.0200.001     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 004  | 8088.0049.0200.002     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 005  | 8088.0049.0200.003     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 007  | 8005.0670.0517.250.001 | PERNO / PIN / STIFT  | 1        |
| 008  | 8090.0203.A080.000     | CUNEO / WEDGE / DRUCKSTÜCK 0                                   | 1*OPTION |
| 008  | 8090.0203.A080.605     | CUNEO / WEDGE / DRUCKSTÜCK +5                                  | 1*OPTION |
| 008  | 8090.0203.A080.610     | CUNEO / WEDGE / DRUCKSTÜCK +10                                 | 1*OPTION |
| 008  | 8090.0203.A080.615     | CUNEO / WEDGE / DRUCKSTÜCK +15                                 | 1*OPTION |
| 008  | 8090.0203.A080.705     | CUNEO / WEDGE / DRUCKSTÜCK -5                                  | 1*OPTION |
| 008  | 8090.0203.A080.710     | CUNEO / WEDGE / DRUCKSTÜCK -10                                 | 1*OPTION |
| 008  | 8090.0203.A080.715     | CUNEO / WEDGE / DRUCKSTÜCK -15                                 | 1*OPTION |
| 008  | 8090.0203.A080.720     | CUNEO / WEDGE / DRUCKSTÜCK -20                                 | 1*OPTION |
| 008  | 8090.0203.A080.725     | CUNEO / WEDGE / DRUCKSTÜCK -25                                 | 1*OPTION |
| 008  | 8090.0203.A080.730     | CUNEO / WEDGE / DRUCKSTÜCK -30                                 | 1*OPTION |
| 008  | 8090.0203.A080.735     | CUNEO / WEDGE / DRUCKSTÜCK -35                                 | 1*OPTION |
| 008  | 8090.0203.A080.740     | CUNEO / WEDGE / DRUCKSTÜCK -40                                 | 1*OPTION |
| 008  | 8090.0203.A080.745     | CUNEO / WEDGE / DRUCKSTÜCK -45                                 | 1*OPTION |
| 008  | 8090.0203.A080.750     | CUNEO / WEDGE / DRUCKSTÜCK -50                                 | 1*OPTION |
| 009  | 8086.2220.0280.200.001 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 010  | 8086.2220.0280.200.002 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 011  | 8012.1850.0340.100.001 | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE              | 2        |
| 012  | 8006.0215.0460.255.001 | RONDELLA / WASHER / UNTERLEGSCHIBE                             | 2        |
| 013  | 8004.0620.0305.350.001 | ROTELLA / ROLLER / ROLLE                                       | 1        |
| 014  | 9033.2644.015          | RALLA / THRUST WASHER / DRUCKSCHEIBE                           | 2        |
| 015  | 9020.06.10.E090        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 4        |
| 017  | 9000.0100.0019.001     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 1        |
| 018  | 9035.2535.300.001      | BOCCOLA / BUSH / BÜCHSE  | 1        |
| 019  | 9003.0002              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 020  | 8087.0350.0120.080.001 | CHIAVETTA / KEY / SCHLÜSSEL                                    | 2        |
| 023  | 9007.06.020.129.1.4762 | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 5        |
| 024  | 9007.08.025.129.1.4762 | VITE / SCREW / SCHRAUBE M8X25                                  | 8        |
| 025  | 9007.06.012.129.1.4762 | VITE / SCREW / SCHRAUBE M6X12                                  | 2        |
| 026  | 9007.08.016.129.1.9327 | VITE / SCREW / SCHRAUBE M8X16                                  | 4        |
| 027  | 9007.05.012.129.1.4762 | VITE / SCREW / SCHRAUBE M5X12                                  | 4        |

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0149.K2A0** INCLINATION **+10°** OPTION CODE **9003.0002**

# 0149.P350 - CAM ROLLER P350

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE

320 daN

SFORZO MAX TRANCIO 14200 daN

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

CUTTING MAX FORCE

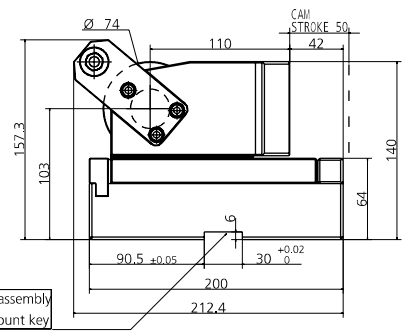
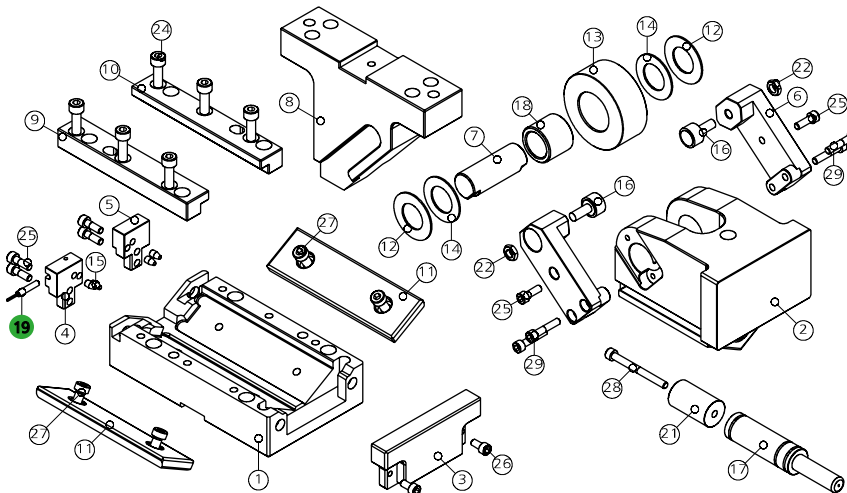
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION

636 daN

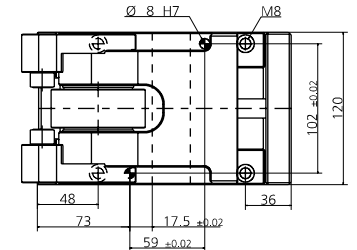
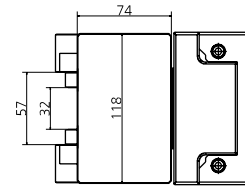
MAXIMALE SCHNITTKRAFT

ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

EFFORT MAXI DÉCOUPE

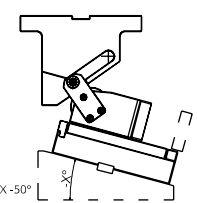
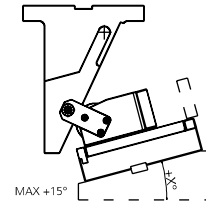


We suggest you to assembly by using a thrust mount key

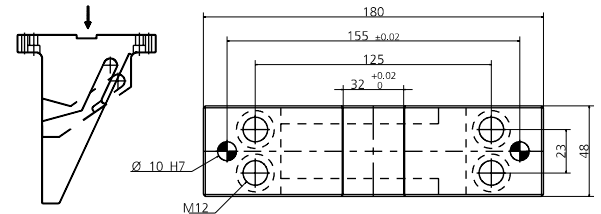


| POS. | CODE                   | DESCRIPTION  | Q.TY     |
|------|------------------------|--|----------|
| 001  | 8000.0049.0350         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | 8007.0049.0300         | SLITTA / SLIDER / LAGERKEIL                                    | 1        |
| 003  | 8088.0049.0300.001     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 004  | 8088.0049.0300.002     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 005  | 8088.0049.0300.003     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 006  | 8009.0049.0300         | STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG  | 2        |
| 007  | 8005.0860.0677.300.001 | PERNO / PIN / STIFT  | 1        |
| 008  | 8090.0203.0050.000     | CUNEO / WEDGE / DRUCKSTÜCK 0                                   | 1*OPTION |
| 008  | 8090.0203.0050.605     | CUNEO / WEDGE / DRUCKSTÜCK +5                                  | 1*OPTION |
| 008  | 8090.0203.0050.610     | CUNEO / WEDGE / DRUCKSTÜCK +10                                 | 1*OPTION |
| 008  | 8090.0203.0050.615     | CUNEO / WEDGE / DRUCKSTÜCK +15                                 | 1*OPTION |
| 008  | 8090.0203.0050.705     | CUNEO / WEDGE / DRUCKSTÜCK -5                                  | 1*OPTION |
| 008  | 8090.0203.0050.710     | CUNEO / WEDGE / DRUCKSTÜCK -10                                 | 1*OPTION |
| 008  | 8090.0203.0050.715     | CUNEO / WEDGE / DRUCKSTÜCK -15                                 | 1*OPTION |
| 008  | 8090.0203.0050.720     | CUNEO / WEDGE / DRUCKSTÜCK -20                                 | 1*OPTION |
| 008  | 8090.0203.0050.725     | CUNEO / WEDGE / DRUCKSTÜCK -25                                 | 1*OPTION |
| 008  | 8090.0203.0050.730     | CUNEO / WEDGE / DRUCKSTÜCK -30                                 | 1*OPTION |
| 008  | 8090.0203.0050.735     | CUNEO / WEDGE / DRUCKSTÜCK -35                                 | 1*OPTION |
| 008  | 8090.0203.0050.740     | CUNEO / WEDGE / DRUCKSTÜCK -40                                 | 1*OPTION |
| 008  | 8090.0203.0050.745     | CUNEO / WEDGE / DRUCKSTÜCK -45                                 | 1*OPTION |
| 008  | 8090.0203.0050.750     | CUNEO / WEDGE / DRUCKSTÜCK -50                                 | 1*OPTION |
| 009  | 8086.1620.0280.200.001 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 010  | 8086.1620.0280.200.002 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 011  | 8012.1570.0450.100.001 | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE              | 2        |
| 012  | 8006.0215.0560.305.001 | RONDELLA / WASHER / UNTERLEGSCHIBE                             | 2        |
| 013  | 8004.0740.0305.380.001 | ROTELLA / ROLLER / ROLLE                                       | 1        |
| 014  | 9033.3254.015          | RALLA / THRUST WASHER / DRUCKSCHEIBE                           | 2        |
| 015  | 9020.06.10.E090        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 4        |
| 016  | 8005.0320.0120.190.001 | PERNO / PIN / STIFT  | 2        |
| 017  | 9000.0050.0025.004     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 1        |
| 018  | 9035.3038.300.001      | BOCCOLA / BUSH / BUCHSE  | 1        |
| 019  | 9003.0002              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 021  | 8089.0258.0450.001     | DISTANZIALE / SPACER / ABSTANDSHALTER                          | 1        |
| 022  | 9014.08.005.008.1.4035 | DADO / NUT / MUTTER M8   | 2        |
| 024  | 9007.08.025.129.1.4762 | VITE / SCREW / SCHRAUBE M8X25                                  | 6        |
| 025  | 9007.06.020.129.1.4762 | VITE / SCREW / SCHRAUBE M6X20                                  | 6        |
| 026  | 9007.06.012.129.1.4762 | VITE / SCREW / SCHRAUBE M6X12                                  | 2        |
| 027  | 9007.08.016.129.1.9327 | VITE / SCREW / SCHRAUBE M8X16                                  | 4        |
| 028  | 9007.06.060.129.1.4762 | VITE / SCREW / SCHRAUBE M6X60                                  | 1        |
| 029  | 9007.06.030.129.1.4762 | VITE / SCREW / SCHRAUBE M6X30                                  | 4        |

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

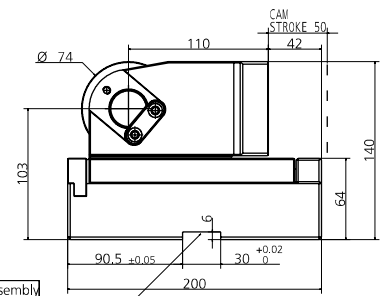
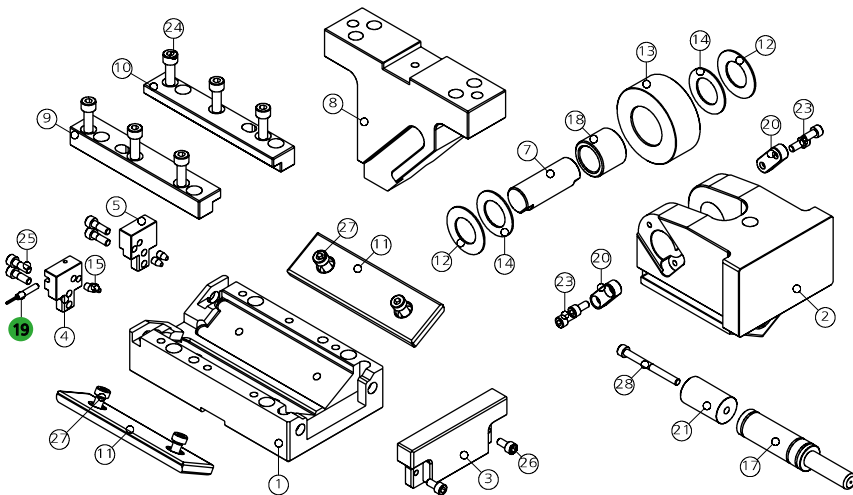
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0149.P350** INCLINATION **+10°** OPTION CODE **9003.0002**

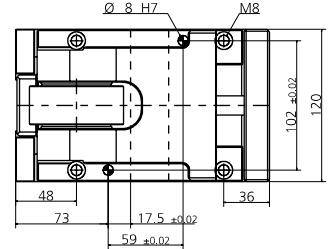
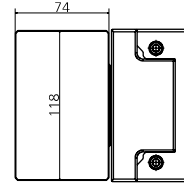
# 0149.K350 - CAM ROLLER K350

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **320 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **636 daN**  
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **14200 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE

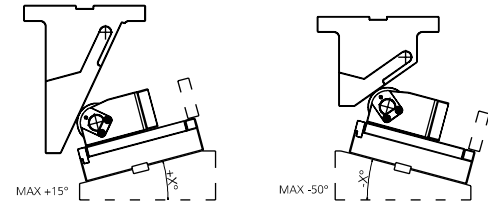


We suggest you to assembly by using a thrust mount key

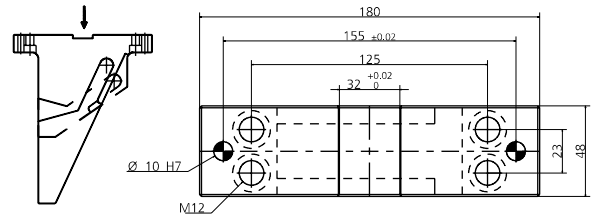


| POS. | CODE                   | DESCRIPTION  | Q.TY     |
|------|------------------------|--|----------|
| 001  | 8000.0049.0350         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | 8007.0049.0300         | SLITTA / SLIDER / LAGERKEIL                                    | 1        |
| 003  | 8088.0049.0300.001     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 004  | 8088.0049.0300.002     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 005  | 8088.0049.0300.003     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 007  | 8005.0860.0677.300.001 | PERNO / PIN / STIFT  | 1        |
| 008  | 8090.0203.0050.000     | CUNEO / WEDGE / DRUCKSTÜCK 0                                   | 1*OPTION |
| 008  | 8090.0203.0050.605     | CUNEO / WEDGE / DRUCKSTÜCK +5                                  | 1*OPTION |
| 008  | 8090.0203.0050.610     | CUNEO / WEDGE / DRUCKSTÜCK +10                                 | 1*OPTION |
| 008  | 8090.0203.0050.615     | CUNEO / WEDGE / DRUCKSTÜCK +15                                 | 1*OPTION |
| 008  | 8090.0203.0050.705     | CUNEO / WEDGE / DRUCKSTÜCK -5                                  | 1*OPTION |
| 008  | 8090.0203.0050.710     | CUNEO / WEDGE / DRUCKSTÜCK -10                                 | 1*OPTION |
| 008  | 8090.0203.0050.715     | CUNEO / WEDGE / DRUCKSTÜCK -15                                 | 1*OPTION |
| 008  | 8090.0203.0050.720     | CUNEO / WEDGE / DRUCKSTÜCK -20                                 | 1*OPTION |
| 008  | 8090.0203.0050.725     | CUNEO / WEDGE / DRUCKSTÜCK -25                                 | 1*OPTION |
| 008  | 8090.0203.0050.730     | CUNEO / WEDGE / DRUCKSTÜCK -30                                 | 1*OPTION |
| 008  | 8090.0203.0050.735     | CUNEO / WEDGE / DRUCKSTÜCK -35                                 | 1*OPTION |
| 008  | 8090.0203.0050.740     | CUNEO / WEDGE / DRUCKSTÜCK -40                                 | 1*OPTION |
| 008  | 8090.0203.0050.745     | CUNEO / WEDGE / DRUCKSTÜCK -45                                 | 1*OPTION |
| 008  | 8090.0203.0050.750     | CUNEO / WEDGE / DRUCKSTÜCK -50                                 | 1*OPTION |
| 009  | 8086.1620.0280.200.001 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 010  | 8086.1620.0280.200.002 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 011  | 8012.1570.0450.100.001 | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE              | 2        |
| 012  | 8006.0215.0560.305.001 | RONDELLA / WASHER / UNTERLEGSCHEIBE                            | 2        |
| 013  | 8004.0740.0305.380.001 | ROTELLA / ROLLER / ROLLE                                       | 1        |
| 014  | 9033.3254.015          | RALLA / THRUST WASHER / DRUCKSCHEIBE                           | 2        |
| 015  | 9020.06.10.E090        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 4        |
| 017  | 9000.0050.0025.004     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 1        |
| 018  | 9035.3038.300.001      | BOCCOLA / BUSH / BÜCHSE  | 1        |
| 019  | 9003.0002              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 020  | 8087.0400.0140.090.001 | CHIAVETTA / KEY / SCHLÜSSEL                                    | 2        |
| 021  | 8089.0258.0450.001     | DISTANZIALE / SPACER / ABSTANDSHALTER                          | 1        |
| 023  | 9007.06.016.129.1.4762 | VITE / SCREW / SCHRAUBE M6X16                                  | 4        |
| 024  | 9007.08.025.129.1.4762 | VITE / SCREW / SCHRAUBE M8X25                                  | 6        |
| 025  | 9007.06.020.129.1.4762 | VITE / SCREW / SCHRAUBE M6X20                                  | 4        |
| 026  | 9007.06.012.129.1.4762 | VITE / SCREW / SCHRAUBE M6X12                                  | 2        |
| 027  | 9007.08.016.129.1.9327 | VITE / SCREW / SCHRAUBE M8X16                                  | 4        |
| 028  | 9007.06.060.129.1.4762 | VITE / SCREW / SCHRAUBE M6X60                                  | 1        |

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0149.K350** INCLINATION **+10°** OPTION CODE **9003.0002**



# 0149.P380 - CAM ROLLER P380

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE

320 daN

SFORZO MAX TRANCIO 14200 daN

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

CUTTING MAX FORCE

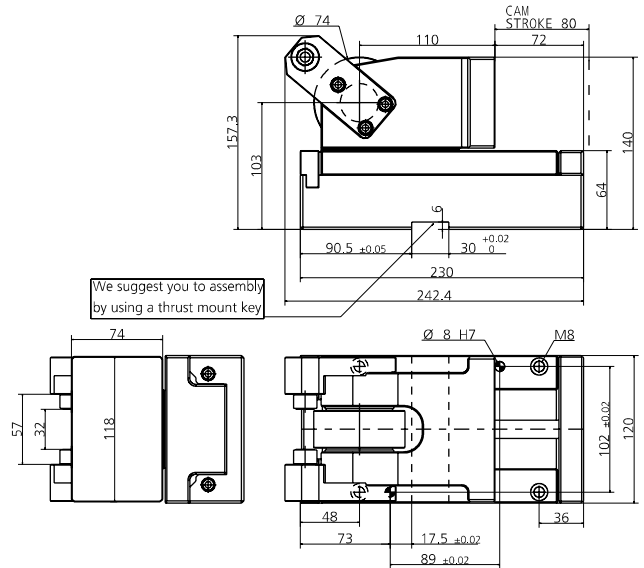
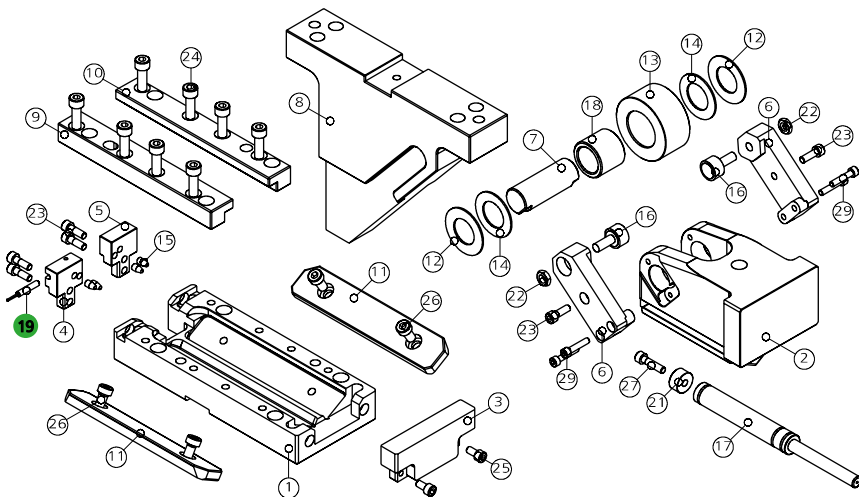
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION

643 daN

MAXIMALE SCHNITTKRAFT

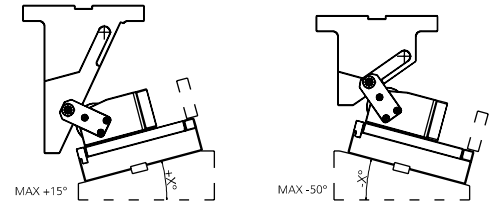
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

EFFORT MAXI DÉCOUPE

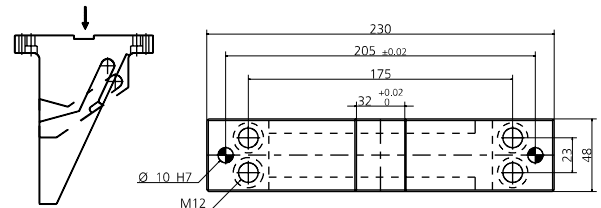


| POS. | CODE                   | DESCRIPTION  | Q.TY     |
|------|------------------------|--|----------|
| 001  | 8000.0049.0380         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | 8007.0049.0300         | SLITTA / SLIDER / LAGERKEIL                                    | 1        |
| 003  | 8088.0049.0300.001     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 004  | 8088.0049.0300.002     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 005  | 8088.0049.0300.003     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 006  | 8009.0049.0300         | STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG  | 2        |
| 007  | 8005.0860.0677.300.001 | PERNO / PIN / STIFT  | 1        |
| 008  | 8090.0203.A080.000     | CUNEO / WEDGE / DRUCKSTÜCK 0                                   | 1*OPTION |
| 008  | 8090.0203.A080.605     | CUNEO / WEDGE / DRUCKSTÜCK +5                                  | 1*OPTION |
| 008  | 8090.0203.A080.610     | CUNEO / WEDGE / DRUCKSTÜCK +10                                 | 1*OPTION |
| 008  | 8090.0203.A080.615     | CUNEO / WEDGE / DRUCKSTÜCK +15                                 | 1*OPTION |
| 008  | 8090.0203.A080.705     | CUNEO / WEDGE / DRUCKSTÜCK -5                                  | 1*OPTION |
| 008  | 8090.0203.A080.710     | CUNEO / WEDGE / DRUCKSTÜCK -10                                 | 1*OPTION |
| 008  | 8090.0203.A080.715     | CUNEO / WEDGE / DRUCKSTÜCK -15                                 | 1*OPTION |
| 008  | 8090.0203.A080.720     | CUNEO / WEDGE / DRUCKSTÜCK -20                                 | 1*OPTION |
| 008  | 8090.0203.A080.725     | CUNEO / WEDGE / DRUCKSTÜCK -25                                 | 1*OPTION |
| 008  | 8090.0203.A080.730     | CUNEO / WEDGE / DRUCKSTÜCK -30                                 | 1*OPTION |
| 008  | 8090.0203.A080.735     | CUNEO / WEDGE / DRUCKSTÜCK -35                                 | 1*OPTION |
| 008  | 8090.0203.A080.740     | CUNEO / WEDGE / DRUCKSTÜCK -40                                 | 1*OPTION |
| 008  | 8090.0203.A080.745     | CUNEO / WEDGE / DRUCKSTÜCK -45                                 | 1*OPTION |
| 008  | 8090.0203.A080.750     | CUNEO / WEDGE / DRUCKSTÜCK -50                                 | 1*OPTION |
| 009  | 8086.1920.0280.200.001 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 010  | 8086.1920.0280.200.002 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 011  | 8012.1800.0450.100.001 | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE              | 2        |
| 012  | 8006.0215.0560.305.001 | RONDELLA / WASHER / UNTERLEGSCHIBE                             | 2        |
| 013  | 8004.0740.0305.380.001 | ROTELLA / ROLLER / ROLLE                                       | 1        |
| 014  | 9033.3254.015          | RALLA / THRUST WASHER / DRUCKSCHEIBE                           | 2        |
| 015  | 9020.06.10.E090        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 4        |
| 016  | 8005.0320.0120.190.001 | PERNO / PIN / STIFT  | 2        |
| 017  | 9000.0080.0025.001     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 1        |
| 018  | 9035.3038.300.001      | BOCCOLA / BUSH / BUCHSE  | 1        |
| 019  | 9003.0002              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 021  | 8089.0258.0100.001     | DISTANZIALE / SPACER / ABSTANDSHALTER                          | 1        |
| 022  | 9014.08.005.008.1.4035 | DADO / NUT / MUTTER M8   | 2        |
| 024  | 9007.08.025.129.1.4762 | VITE / SCREW / SCHRAUBE M8X25                                  | 8        |
| 025  | 9007.06.020.129.1.4762 | VITE / SCREW / SCHRAUBE M6X20                                  | 6        |
| 026  | 9007.06.012.129.1.4762 | VITE / SCREW / SCHRAUBE M6X12                                  | 2        |
| 027  | 9007.08.016.129.1.9327 | VITE / SCREW / SCHRAUBE M8X16                                  | 4        |
| 028  | 9007.06.030.129.1.4762 | VITE / SCREW / SCHRAUBE M6X30                                  | 5        |

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

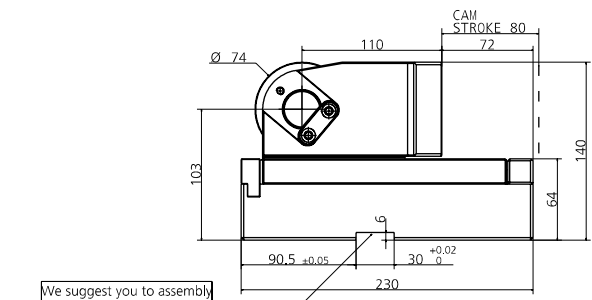
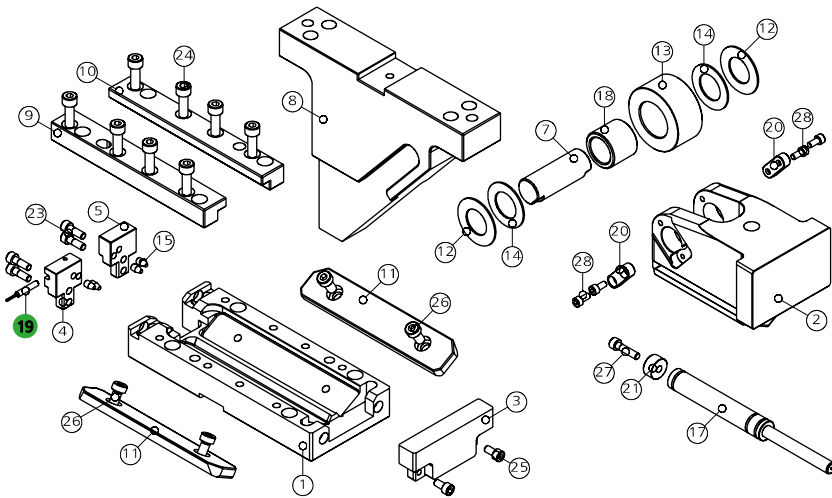
MODEL **0149.P380** INCLINATION **+10°** OPTION CODE **9003.0002**



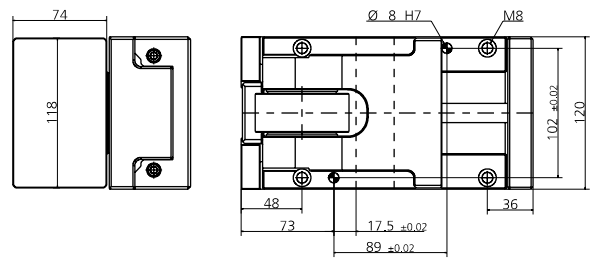
# 0149.K380 - CAM ROLLER K380

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **320 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **643 daN**  
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **14200 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE

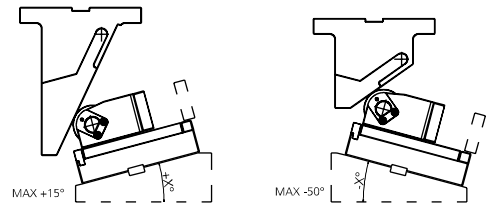


We suggest you to assembly by using a thrust mount key

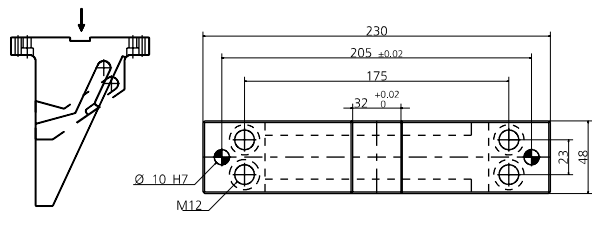


| POS. | CODE                   | DESCRIPTION  | Q.TY     |
|------|------------------------|--|----------|
| 001  | 8000.0049.0380         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | 8007.0049.0300         | SLITTA / SLIDER / LAGERKEIL                                    | 1        |
| 003  | 8088.0049.0300.001     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 004  | 8088.0049.0300.002     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 005  | 8088.0049.0300.003     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 007  | 8005.0860.0677.300.001 | PERNO / PIN / STIFT  | 1        |
| 008  | 8090.0203.A080.000     | CUNEO / WEDGE / DRUCKSTÜCK 0                                   | 1*OPTION |
| 008  | 8090.0203.A080.605     | CUNEO / WEDGE / DRUCKSTÜCK +5                                  | 1*OPTION |
| 008  | 8090.0203.A080.610     | CUNEO / WEDGE / DRUCKSTÜCK +10                                 | 1*OPTION |
| 008  | 8090.0203.A080.615     | CUNEO / WEDGE / DRUCKSTÜCK +15                                 | 1*OPTION |
| 008  | 8090.0203.A080.705     | CUNEO / WEDGE / DRUCKSTÜCK -5                                  | 1*OPTION |
| 008  | 8090.0203.A080.710     | CUNEO / WEDGE / DRUCKSTÜCK -10                                 | 1*OPTION |
| 008  | 8090.0203.A080.715     | CUNEO / WEDGE / DRUCKSTÜCK -15                                 | 1*OPTION |
| 008  | 8090.0203.A080.720     | CUNEO / WEDGE / DRUCKSTÜCK -20                                 | 1*OPTION |
| 008  | 8090.0203.A080.725     | CUNEO / WEDGE / DRUCKSTÜCK -25                                 | 1*OPTION |
| 008  | 8090.0203.A080.730     | CUNEO / WEDGE / DRUCKSTÜCK -30                                 | 1*OPTION |
| 008  | 8090.0203.A080.735     | CUNEO / WEDGE / DRUCKSTÜCK -35                                 | 1*OPTION |
| 008  | 8090.0203.A080.740     | CUNEO / WEDGE / DRUCKSTÜCK -40                                 | 1*OPTION |
| 008  | 8090.0203.A080.745     | CUNEO / WEDGE / DRUCKSTÜCK -45                                 | 1*OPTION |
| 008  | 8090.0203.A080.750     | CUNEO / WEDGE / DRUCKSTÜCK -50                                 | 1*OPTION |
| 009  | 8086.1920.0280.200.001 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 010  | 8086.1920.0280.200.002 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 011  | 8012.1800.0450.100.001 | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE              | 2        |
| 012  | 8006.0215.0560.305.001 | RONDELLA / WASHER / UNTERLEGSCHEIBE                            | 2        |
| 013  | 8004.0740.0305.380.001 | ROTELLA / ROLLER / ROLLE                                       | 1        |
| 014  | 9033.3254.015          | RALLA / THRUST WASHER / DRUCKSCHEIBE                           | 2        |
| 015  | 9020.06.10.E090        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 4        |
| 017  | 9000.0080.0025.001     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 1        |
| 018  | 9035.3038.300.001      | BOCCOLA / BUSH / BUCHSE  | 1        |
| 019  | 9003.0002              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 020  | 8087.0400.0140.090.001 | CHIAVETTA / KEY / SCHLÜSSEL                                    | 2        |
| 021  | 8089.0258.0100.001     | DISTANZIALE / SPACER / ABSTANDSHALTER                          | 1        |
| 023  | 9007.06.016.129.1.4762 | VITE / SCREW / SCHRAUBE M6X16                                  | 4        |
| 024  | 9007.08.025.129.1.4762 | VITE / SCREW / SCHRAUBE M8X25                                  | 8        |
| 025  | 9007.06.020.129.1.4762 | VITE / SCREW / SCHRAUBE M6X20                                  | 4        |
| 026  | 9007.06.012.129.1.4762 | VITE / SCREW / SCHRAUBE M6X12                                  | 2        |
| 027  | 9007.08.016.129.1.9327 | VITE / SCREW / SCHRAUBE M8X16                                  | 4        |
| 028  | 9007.06.030.129.1.4762 | VITE / SCREW / SCHRAUBE M6X30                                  | 1        |

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

# 0149.P3A0 - CAM ROLLER P3A0

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE

320 daN

SFORZO MAX TRANCIO 14200 daN

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

CUTTING MAX FORCE

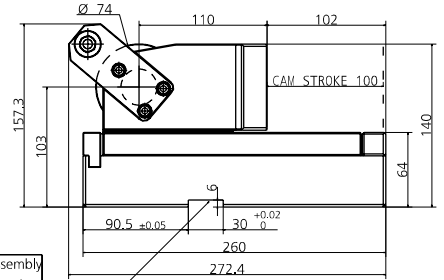
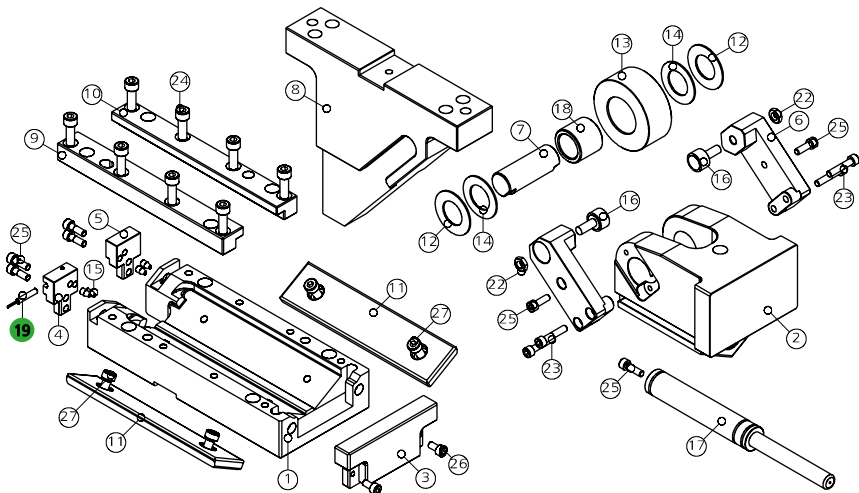
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION

646 daN

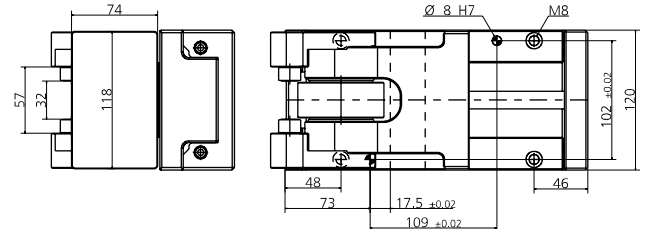
MAXIMALE SCHNITTKRAFT

ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

EFFORT MAXI DÉCOUPE

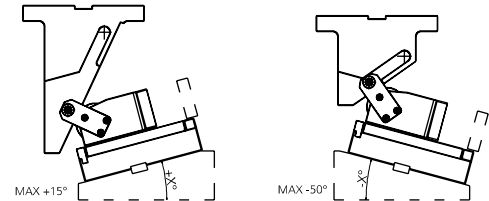


We suggest you to assembly by using a thrust mount key

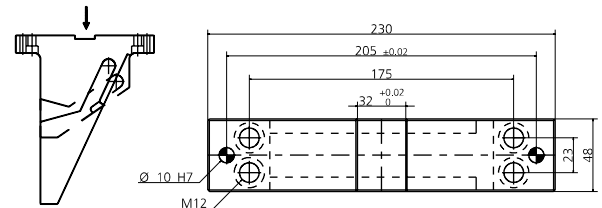


| POS. | CODE                   | DESCRIPTION  | Q.TY     |
|------|------------------------|--|----------|
| 001  | 8000.0049.03A0         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | 8007.0049.0300         | SLITTA / SLIDER / LAGERKEIL                                    | 1        |
| 003  | 8088.0049.0300.001     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 004  | 8088.0049.0300.002     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 005  | 8088.0049.0300.003     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 006  | 8009.0049.0300         | STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG  | 2        |
| 007  | 8005.0860.0677.300.001 | PERNO / PIN / STIFT  | 1        |
| 008  | 8090.0203.A080.000     | CUNEO / WEDGE / DRUCKSTÜCK 0                                   | 1*OPTION |
| 008  | 8090.0203.A080.605     | CUNEO / WEDGE / DRUCKSTÜCK +5                                  | 1*OPTION |
| 008  | 8090.0203.A080.610     | CUNEO / WEDGE / DRUCKSTÜCK +10                                 | 1*OPTION |
| 008  | 8090.0203.A080.615     | CUNEO / WEDGE / DRUCKSTÜCK +15                                 | 1*OPTION |
| 008  | 8090.0203.A080.705     | CUNEO / WEDGE / DRUCKSTÜCK -5                                  | 1*OPTION |
| 008  | 8090.0203.A080.710     | CUNEO / WEDGE / DRUCKSTÜCK -10                                 | 1*OPTION |
| 008  | 8090.0203.A080.715     | CUNEO / WEDGE / DRUCKSTÜCK -15                                 | 1*OPTION |
| 008  | 8090.0203.A080.720     | CUNEO / WEDGE / DRUCKSTÜCK -20                                 | 1*OPTION |
| 008  | 8090.0203.A080.725     | CUNEO / WEDGE / DRUCKSTÜCK -25                                 | 1*OPTION |
| 008  | 8090.0203.A080.730     | CUNEO / WEDGE / DRUCKSTÜCK -30                                 | 1*OPTION |
| 008  | 8090.0203.A080.735     | CUNEO / WEDGE / DRUCKSTÜCK -35                                 | 1*OPTION |
| 008  | 8090.0203.A080.740     | CUNEO / WEDGE / DRUCKSTÜCK -40                                 | 1*OPTION |
| 008  | 8090.0203.A080.745     | CUNEO / WEDGE / DRUCKSTÜCK -45                                 | 1*OPTION |
| 008  | 8090.0203.A080.750     | CUNEO / WEDGE / DRUCKSTÜCK -50                                 | 1*OPTION |
| 009  | 8086.2220.0280.200.001 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 010  | 8086.2220.0280.200.002 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 011  | 8012.1980.0450.100.001 | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE              | 2        |
| 012  | 8006.0215.0560.305.001 | RONDELLA / WASHER / UNTERLEGSCHIEBE                            | 2        |
| 013  | 8004.0740.0305.380.001 | ROTELLA / ROLLER / ROLLE                                       | 1        |
| 014  | 9033.3254.015          | RALLA / THRUST WASHER / DRUCKSCHEIBE                           | 2        |
| 015  | 9020.06.10.E090        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 4        |
| 016  | 8005.0320.0120.190.001 | PERNO / PIN / STIFT  | 2        |
| 017  | 9000.0100.0025.001     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 1        |
| 018  | 9035.3038.300.001      | BOCCOLA / BUSH / BUCHSE  | 1        |
| 019  | 9003.0002              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 022  | 9014.08.005.008.1.4035 | DADO / NUT / MUTTER M8   | 2        |
| 023  | 9007.06.030.129.1.4762 | VITE / SCREW / SCHRAUBE M6X30                                  | 4        |
| 024  | 9007.08.025.129.1.4762 | VITE / SCREW / SCHRAUBE M8X25                                  | 8        |
| 025  | 9007.06.020.129.1.4762 | VITE / SCREW / SCHRAUBE M6X20                                  | 6        |
| 026  | 9007.06.012.129.1.4762 | VITE / SCREW / SCHRAUBE M6X12                                  | 2        |
| 027  | 9007.08.016.129.1.9327 | VITE / SCREW / SCHRAUBE M8X16                                  | 4        |
| 028  | 9007.06.016.129.1.4762 | VITE / SCREW / SCHRAUBE M6X16                                  | 1        |

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

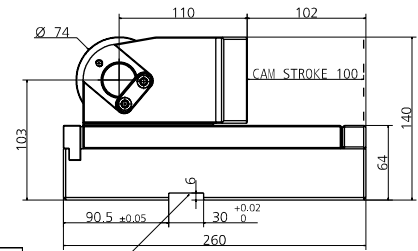
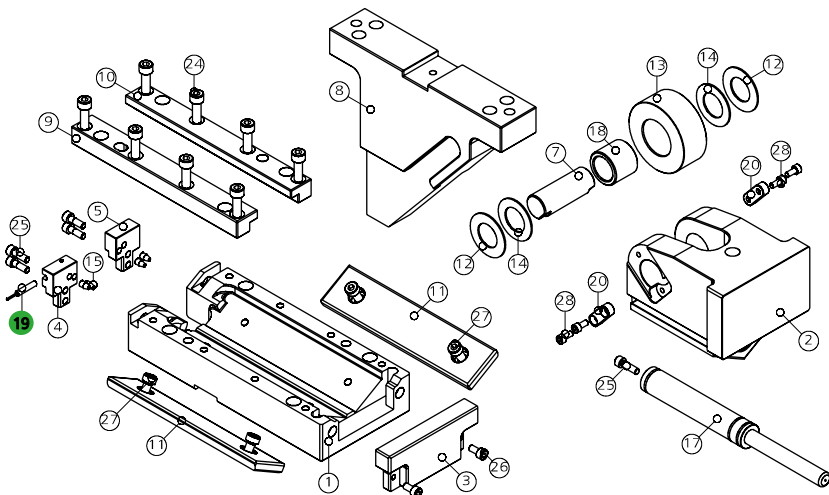
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0149.P3A0** INCLINATION **+10°** OPTION CODE **9003.0002**

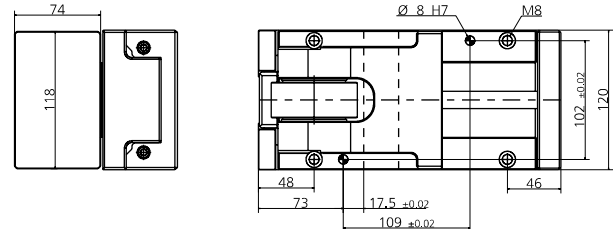
# 0149.K3A0 - CAM ROLLER K3A0

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **320 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **646 daN**  
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **14200 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE



We suggest you to assembly by using a thrust mount key

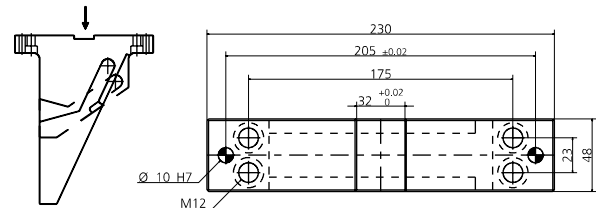


| POS. | CODE                   | DESCRIPTION  | Q.TY     |
|------|------------------------|--|----------|
| 001  | 8000.0049.03A0         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | 8007.0049.0300         | SLITTA / SLIDER / LAGERKEIL                                    | 1        |
| 003  | 8088.0049.0300.001     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 004  | 8088.0049.0300.002     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 005  | 8088.0049.0300.003     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 007  | 8005.0860.0677.300.001 | PERNO / PIN / STIFT  | 1        |
| 008  | 8090.0203.A080.000     | CUNEO / WEDGE / DRUCKSTÜCK 0                                   | 1*OPTION |
| 008  | 8090.0203.A080.605     | CUNEO / WEDGE / DRUCKSTÜCK +5                                  | 1*OPTION |
| 008  | 8090.0203.A080.610     | CUNEO / WEDGE / DRUCKSTÜCK +10                                 | 1*OPTION |
| 008  | 8090.0203.A080.615     | CUNEO / WEDGE / DRUCKSTÜCK +15                                 | 1*OPTION |
| 008  | 8090.0203.A080.705     | CUNEO / WEDGE / DRUCKSTÜCK -5                                  | 1*OPTION |
| 008  | 8090.0203.A080.710     | CUNEO / WEDGE / DRUCKSTÜCK -10                                 | 1*OPTION |
| 008  | 8090.0203.A080.715     | CUNEO / WEDGE / DRUCKSTÜCK -15                                 | 1*OPTION |
| 008  | 8090.0203.A080.720     | CUNEO / WEDGE / DRUCKSTÜCK -20                                 | 1*OPTION |
| 008  | 8090.0203.A080.725     | CUNEO / WEDGE / DRUCKSTÜCK -25                                 | 1*OPTION |
| 008  | 8090.0203.A080.730     | CUNEO / WEDGE / DRUCKSTÜCK -30                                 | 1*OPTION |
| 008  | 8090.0203.A080.735     | CUNEO / WEDGE / DRUCKSTÜCK -35                                 | 1*OPTION |
| 008  | 8090.0203.A080.740     | CUNEO / WEDGE / DRUCKSTÜCK -40                                 | 1*OPTION |
| 008  | 8090.0203.A080.745     | CUNEO / WEDGE / DRUCKSTÜCK -45                                 | 1*OPTION |
| 008  | 8090.0203.A080.750     | CUNEO / WEDGE / DRUCKSTÜCK -50                                 | 1*OPTION |
| 009  | 8086.2220.0280.200.001 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 010  | 8086.2220.0280.200.002 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 011  | 8012.1980.0450.100.001 | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE              | 2        |
| 012  | 8006.0215.0560.305.001 | RONDELLA / WASHER / UNTERLEGSCHEIBE                            | 2        |
| 013  | 8004.0740.0305.380.001 | ROTELLA / ROLLER / ROLLE                                       | 1        |
| 014  | 9033.3254.015          | RALLA / THRUST WASHER / DRUCKSCHEIBE                           | 2        |
| 015  | 9020.06.10.E090        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 4        |
| 017  | 9000.0100.0025.001     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 1        |
| 018  | 9035.3038.300.001      | BOCCOLA / BUSH / BÜCHSE  | 1        |
| 019  | 9003.0002              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 020  | 8087.0400.0140.090.001 | CHIAVETTA / KEY / SCHLÜSSEL                                    | 2        |
| 023  | 9007.06.030.129.1.4762 | VITE / SCREW / SCHRAUBE M6X30                                  | 2        |
| 024  | 9007.08.025.129.1.4762 | VITE / SCREW / SCHRAUBE M8X25                                  | 8        |
| 025  | 9007.06.020.129.1.4762 | VITE / SCREW / SCHRAUBE M6X20                                  | 4        |
| 026  | 9007.06.012.129.1.4762 | VITE / SCREW / SCHRAUBE M6X12                                  | 2        |
| 027  | 9007.08.016.129.1.9327 | VITE / SCREW / SCHRAUBE M8X16                                  | 4        |
| 028  | 9007.06.016.129.1.4762 | VITE / SCREW / SCHRAUBE M6X16                                  | 3        |

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0149.K3A0** INCLINATION **+10°** OPTION CODE **9003.0002**

# 0149.P450 - CAM ROLLER P450

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE

350 daN

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

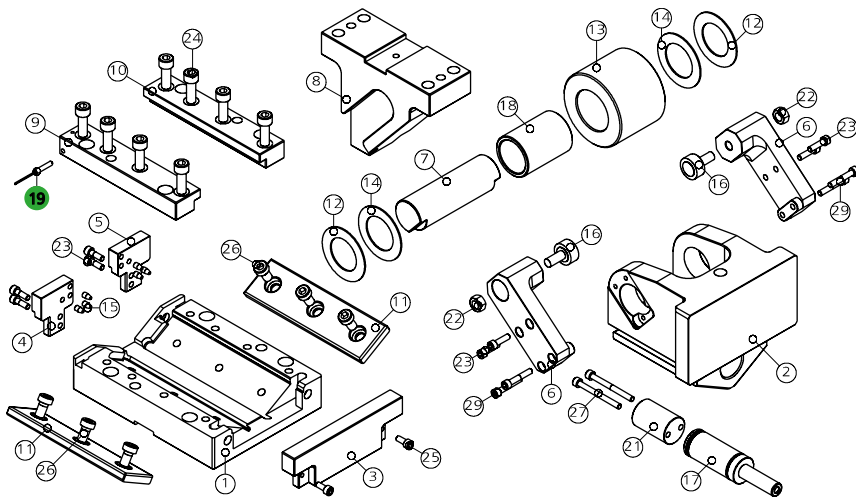
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION

645 daN

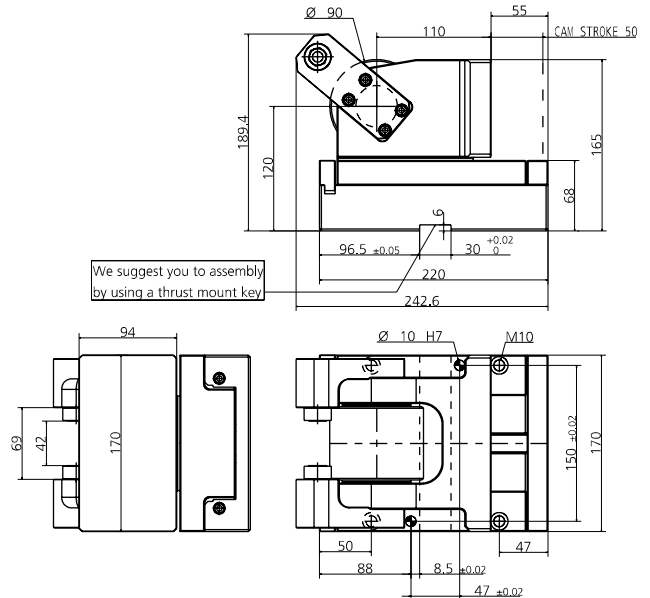
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO 16600 daN

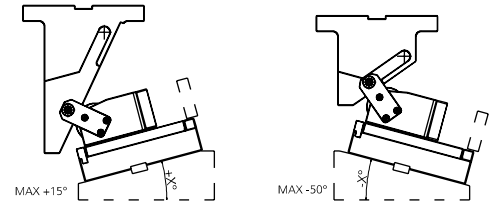
CUTTING MAX FORCE  
MAXIMALE SCHNITTKRAFT  
EFFORT MAXI DÉCOUPE



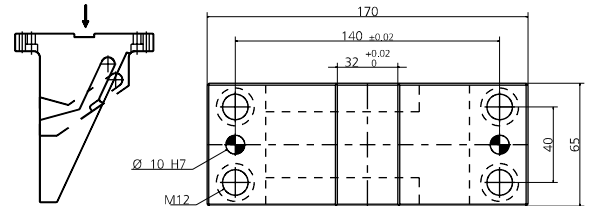
| POS. | CODE                   | DESCRIPTION  | Q.TY     |
|------|------------------------|--|----------|
| 001  | 8000.0049.0450         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | 8007.0049.0400         | SLITTA / SLIDER / LAGERKEIL                                    | 1        |
| 003  | 8088.0049.0400.001     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 004  | 8088.0049.0400.002     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 005  | 8088.0049.0400.003     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 006  | 8009.0049.0400         | STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG  | 2        |
| 007  | 8005.1250.1067.400.001 | PERNO / PIN / STIFT  | 1        |
| 008  | 8090.0405.0050.000     | CUNEO / WEDGE / DRUCKSTÜCK 0                                   | 1*OPTION |
| 008  | 8090.0405.0050.605     | CUNEO / WEDGE / DRUCKSTÜCK +5                                  | 1*OPTION |
| 008  | 8090.0405.0050.610     | CUNEO / WEDGE / DRUCKSTÜCK +10                                 | 1*OPTION |
| 008  | 8090.0405.0050.615     | CUNEO / WEDGE / DRUCKSTÜCK +15                                 | 1*OPTION |
| 008  | 8090.0405.0050.705     | CUNEO / WEDGE / DRUCKSTÜCK -5                                  | 1*OPTION |
| 008  | 8090.0405.0050.710     | CUNEO / WEDGE / DRUCKSTÜCK -10                                 | 1*OPTION |
| 008  | 8090.0405.0050.715     | CUNEO / WEDGE / DRUCKSTÜCK -15                                 | 1*OPTION |
| 008  | 8090.0405.0050.720     | CUNEO / WEDGE / DRUCKSTÜCK -20                                 | 1*OPTION |
| 008  | 8090.0405.0050.725     | CUNEO / WEDGE / DRUCKSTÜCK -25                                 | 1*OPTION |
| 008  | 8090.0405.0050.730     | CUNEO / WEDGE / DRUCKSTÜCK -30                                 | 1*OPTION |
| 008  | 8090.0405.0050.735     | CUNEO / WEDGE / DRUCKSTÜCK -35                                 | 1*OPTION |
| 008  | 8090.0405.0050.740     | CUNEO / WEDGE / DRUCKSTÜCK -40                                 | 1*OPTION |
| 008  | 8090.0405.0050.745     | CUNEO / WEDGE / DRUCKSTÜCK -45                                 | 1*OPTION |
| 008  | 8090.0405.0050.750     | CUNEO / WEDGE / DRUCKSTÜCK -50                                 | 1*OPTION |
| 009  | 8086.1820.0390.240.001 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 010  | 8086.1820.0390.240.002 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 011  | 8012.1820.0500.100.001 | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE              | 2        |
| 012  | 8006.0215.0660.400.001 | RONDELLA / WASHER / UNTERLEGSCHETBE                            | 2        |
| 013  | 8004.0900.0705.500.001 | ROTELLA / ROLLER / ROLLE                                       | 1        |
| 014  | 9033.4266.015          | RALLA / THRUST WASHER / DRUCKSCHEIBE                           | 2        |
| 015  | 9020.06.10.E090        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 5        |
| 016  | 8005.0360.0130.260.001 | PERNO / PIN / STIFT  | 2        |
| 017  | 9000.0050.0032.001     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 1        |
| 018  | 9035.4050.700.001      | BOCCOLA / BUSH / BUCHSE  | 1        |
| 019  | 9003.0002              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 021  | 8089.0328.0500.001     | DISTANZIALE / SPACER / ABSTANDSHALTER                          | 1        |
| 022  | 9014.10.008.008.1.4032 | DADO / NUT / MUTTER M10  | 2        |
| 023  | 9007.06.020.129.1.4762 | VITE / SCREW / SCHRAUBE M6X20                                  | 8        |
| 024  | 9007.10.030.129.1.4762 | VITE / SCREW / SCHRAUBE M10X30                                 | 8        |
| 025  | 9007.06.012.129.1.4762 | VITE / SCREW / SCHRAUBE M6X12                                  | 2        |
| 026  | 9007.10.020.129.1.9327 | VITE / SCREW / SCHRAUBE M10X20                                 | 6        |
| 027  | 9007.06.070.129.1.4762 | VITE / SCREW / SCHRAUBE M6X70                                  | 2        |
| 029  | 9007.06.035.129.1.4762 | VITE / SCREW / SCHRAUBE M6X35                                  | 4        |



PSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0149.P450** INCLINATION **+10°** OPTION CODE **9003.0002**

# 0149.K450 - CAM ROLLER K450

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **350 daN**

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **645 daN**

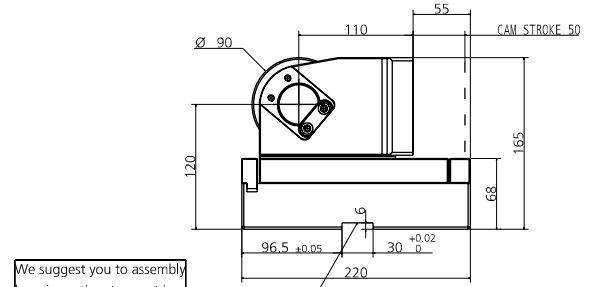
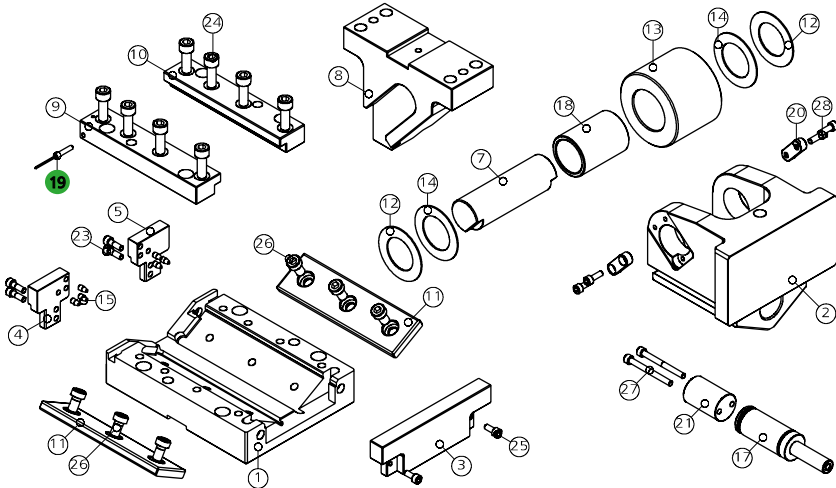
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SPORZO MAX TRANCIO **16600 daN**

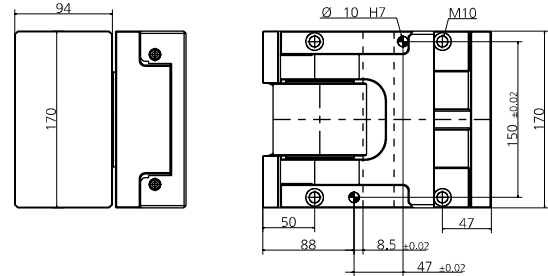
CUTTING MAX FORCE

MAXIMALE SCHNITTKRAFT

EFFORT MAXI DÉCOUPE

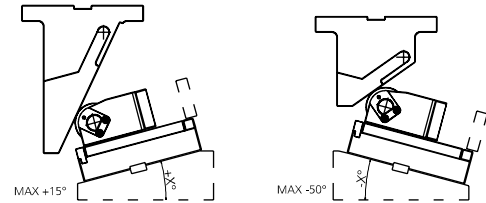


We suggest you to assembly by using a thrust mount key

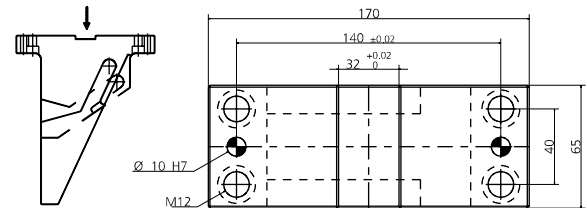


| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0049.0450</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | <b>8007.0049.0400</b>         | SLITTA / SLIDER / LAGERKEIL                                    | 1        |
| 003  | <b>8088.0049.0400.001</b>     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 004  | <b>8088.0049.0400.002</b>     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 005  | <b>8088.0049.0400.003</b>     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 007  | <b>8005.1250.1067.400.001</b> | PERNO / PIN / STIFT  | 1        |
| 008  | <b>8090.0405.0050.000</b>     | CUNEO / WEDGE / DRUCKSTÜCK 0                                   | 1*OPTION |
| 008  | <b>8090.0405.0050.605</b>     | CUNEO / WEDGE / DRUCKSTÜCK +5                                  | 1*OPTION |
| 008  | <b>8090.0405.0050.610</b>     | CUNEO / WEDGE / DRUCKSTÜCK +10                                 | 1*OPTION |
| 008  | <b>8090.0405.0050.615</b>     | CUNEO / WEDGE / DRUCKSTÜCK +15                                 | 1*OPTION |
| 008  | <b>8090.0405.0050.705</b>     | CUNEO / WEDGE / DRUCKSTÜCK -5                                  | 1*OPTION |
| 008  | <b>8090.0405.0050.710</b>     | CUNEO / WEDGE / DRUCKSTÜCK -10                                 | 1*OPTION |
| 008  | <b>8090.0405.0050.715</b>     | CUNEO / WEDGE / DRUCKSTÜCK -15                                 | 1*OPTION |
| 008  | <b>8090.0405.0050.720</b>     | CUNEO / WEDGE / DRUCKSTÜCK -20                                 | 1*OPTION |
| 008  | <b>8090.0405.0050.725</b>     | CUNEO / WEDGE / DRUCKSTÜCK -25                                 | 1*OPTION |
| 008  | <b>8090.0405.0050.730</b>     | CUNEO / WEDGE / DRUCKSTÜCK -30                                 | 1*OPTION |
| 008  | <b>8090.0405.0050.735</b>     | CUNEO / WEDGE / DRUCKSTÜCK -35                                 | 1*OPTION |
| 008  | <b>8090.0405.0050.740</b>     | CUNEO / WEDGE / DRUCKSTÜCK -40                                 | 1*OPTION |
| 008  | <b>8090.0405.0050.745</b>     | CUNEO / WEDGE / DRUCKSTÜCK -45                                 | 1*OPTION |
| 008  | <b>8090.0405.0050.750</b>     | CUNEO / WEDGE / DRUCKSTÜCK -50                                 | 1*OPTION |
| 009  | <b>8086.1820.0390.240.001</b> | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 010  | <b>8086.1820.0390.240.002</b> | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 011  | <b>8012.1820.0500.100.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE              | 2        |
| 012  | <b>8006.0215.0660.400.001</b> | RONDELLA / WASHER / UNTERLEGSCHEIBE                            | 2        |
| 013  | <b>8004.0900.0705.500.001</b> | ROTELLA / ROLLER / ROLLE                                       | 1        |
| 014  | <b>9033.4266.015</b>          | RALLA / THRUST WASHER / DRUCKSCHEIBE                           | 2        |
| 015  | <b>9020.06.10.E090</b>        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 5        |
| 017  | <b>9000.0050.0032.001</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 1        |
| 018  | <b>9035.4050.700.001</b>      | BOCCOLA / BUSH / BÜCHSE  | 1        |
| 019  | <b>9003.0002</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 020  | <b>8087.0400.0140.090.001</b> | CHIAVETTA / KEY / SCHLÜSSEL                                    | 2        |
| 021  | <b>8089.0328.0500.001</b>     | DISTANZIALE / SPACER / ABSTANDSHALTER                          | 1        |
| 023  | <b>9007.06.020.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X20                                  | 4        |
| 024  | <b>9007.10.030.129.1.4762</b> | VITE / SCREW / SCHRAUBE M10X30                                 | 8        |
| 025  | <b>9007.06.012.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X12                                  | 2        |
| 026  | <b>9007.10.020.129.1.9327</b> | VITE / SCREW / SCHRAUBE M10X20                                 | 6        |
| 027  | <b>9007.06.070.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X70                                  | 2        |
| 028  | <b>9007.06.016.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X16                                  | 4        |

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



**19** PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0149.K450** INCLINATION **+10°** OPTION CODE **9003.0002**



# 0149.P480 - CAM ROLLER P480

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE

350 daN

SFORZO MAX TRANCIO 16600 daN

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

CUTTING MAX FORCE

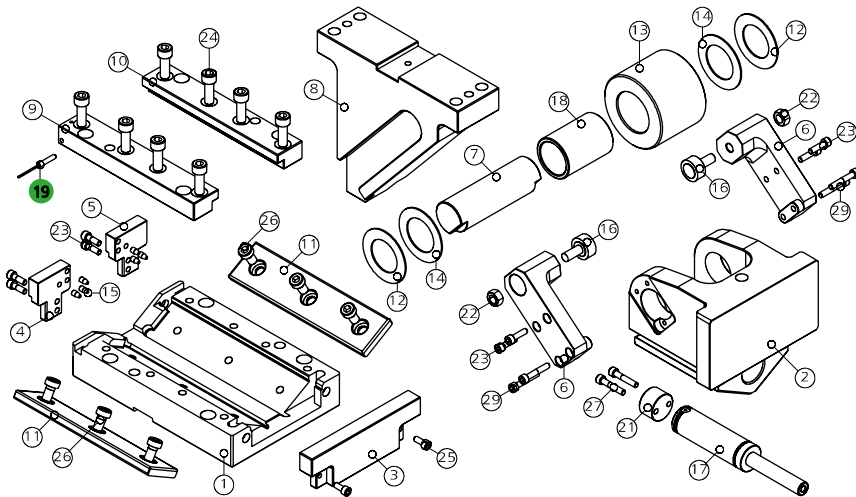
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION

657 daN

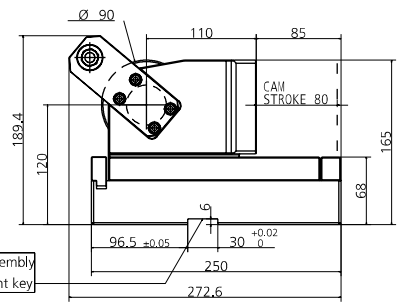
MAXIMALE SCHNITTKRAFT

ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

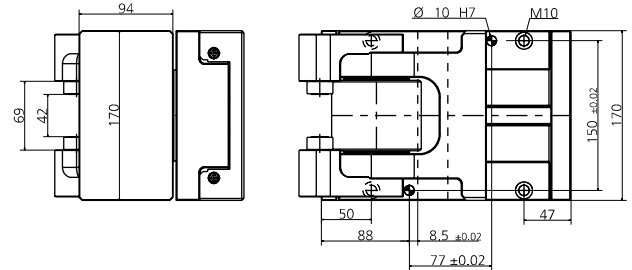
EFFORT MAXI DÉCOUPE



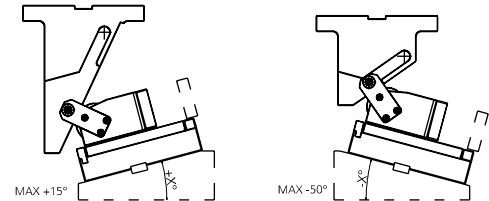
| POS. | CODE                   | DESCRIPTION  | Q.TY     |
|------|------------------------|--|----------|
| 001  | 8000.0049.0480         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | 8007.0049.0400         | SLITTA / SLIDER / LAGERKEIL                                    | 1        |
| 003  | 8088.0049.0400.001     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 004  | 8088.0049.0400.002     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 005  | 8088.0049.0400.003     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 006  | 8009.0049.0400         | STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG  | 2        |
| 007  | 8005.1250.1067.400.001 | PERNO / PIN / STIFT  | 1        |
| 008  | 8090.0405.A080.000     | CUNEO / WEDGE / DRUCKSTÜCK 0                                   | 1*OPTION |
| 008  | 8090.0405.A080.605     | CUNEO / WEDGE / DRUCKSTÜCK +5                                  | 1*OPTION |
| 008  | 8090.0405.A080.610     | CUNEO / WEDGE / DRUCKSTÜCK +10                                 | 1*OPTION |
| 008  | 8090.0405.A080.615     | CUNEO / WEDGE / DRUCKSTÜCK +15                                 | 1*OPTION |
| 008  | 8090.0405.A080.705     | CUNEO / WEDGE / DRUCKSTÜCK -5                                  | 1*OPTION |
| 008  | 8090.0405.A080.710     | CUNEO / WEDGE / DRUCKSTÜCK -10                                 | 1*OPTION |
| 008  | 8090.0405.A080.715     | CUNEO / WEDGE / DRUCKSTÜCK -15                                 | 1*OPTION |
| 008  | 8090.0405.A080.720     | CUNEO / WEDGE / DRUCKSTÜCK -20                                 | 1*OPTION |
| 008  | 8090.0405.A080.725     | CUNEO / WEDGE / DRUCKSTÜCK -25                                 | 1*OPTION |
| 008  | 8090.0405.A080.730     | CUNEO / WEDGE / DRUCKSTÜCK -30                                 | 1*OPTION |
| 008  | 8090.0405.A080.735     | CUNEO / WEDGE / DRUCKSTÜCK -35                                 | 1*OPTION |
| 008  | 8090.0405.A080.740     | CUNEO / WEDGE / DRUCKSTÜCK -40                                 | 1*OPTION |
| 008  | 8090.0405.A080.745     | CUNEO / WEDGE / DRUCKSTÜCK -45                                 | 1*OPTION |
| 008  | 8090.0405.A080.750     | CUNEO / WEDGE / DRUCKSTÜCK -50                                 | 1*OPTION |
| 009  | 8086.2120.0390.240.001 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 010  | 8086.2120.0390.240.002 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 011  | 8012.2100.0500.100.001 | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE              | 2        |
| 012  | 8006.0215.0660.400.001 | RONDELLA / WASHER / UNTERLEGSCHEIBE                            | 2        |
| 013  | 8004.0900.0705.500.001 | ROTELLA / ROLLER / ROLLE                                       | 1        |
| 014  | 9033.4266.015          | RALLA / THRUST WASHER / DRUCKSCHEIBE                           | 2        |
| 015  | 9020.06.10.E090        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 5        |
| 016  | 8005.0360.0130.260.001 | PERNO / PIN / STIFT  | 2        |
| 017  | 9000.0080.0032.001     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 1        |
| 018  | 9035.4050.700.001      | BOCCOLA / BUSH / BUCHSE  | 1        |
| 019  | 9003.0002              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 021  | 8089.0328.0200.001     | DISTANZIALE / SPACER / ABSTANDSHALTER                          | 1        |
| 022  | 9014.10.008.008.1.4032 | DADO / NUT / MUTTER M10  | 2        |
| 023  | 9007.06.020.129.1.4762 | VITE / SCREW / SCHRAUBE M6X20                                  | 8        |
| 024  | 9007.10.030.129.1.4762 | VITE / SCREW / SCHRAUBE M10X30                                 | 6        |
| 025  | 9007.06.012.129.1.4762 | VITE / SCREW / SCHRAUBE M6X12                                  | 2        |
| 026  | 9007.10.020.129.1.9327 | VITE / SCREW / SCHRAUBE M10X20                                 | 6        |
| 027  | 9007.06.030.129.1.4762 | VITE / SCREW / SCHRAUBE M6X30                                  | 2        |
| 029  | 9007.06.035.129.1.4762 | VITE / SCREW / SCHRAUBE M6X35                                  | 4        |



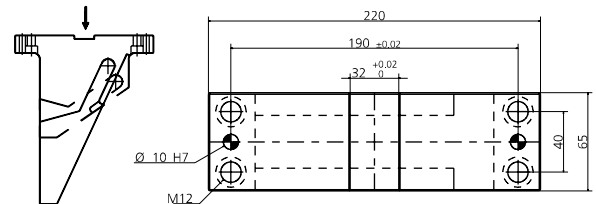
We suggest you to assembly by using a thrust mount key



POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0149.P480** INCLINATION **+10°** OPTION CODE **9003.0002**

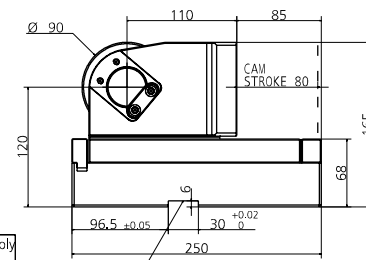
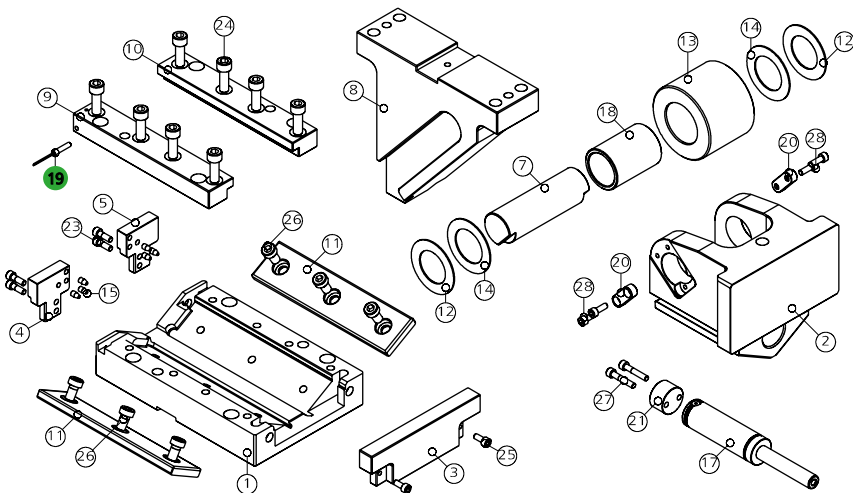


# 0149.K480 - CAM ROLLER K480

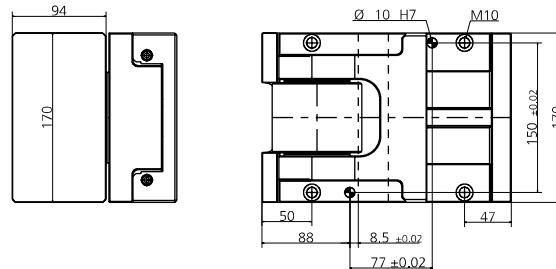
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE  
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION  
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

**350 daN**  
**657 daN**

SFORZO MAX TRANCIO **16600 daN**  
CUTTING MAX FORCE  
MAXIMALE SCHNITTKRAFT  
EFFORT MAXI DÉCOUPE

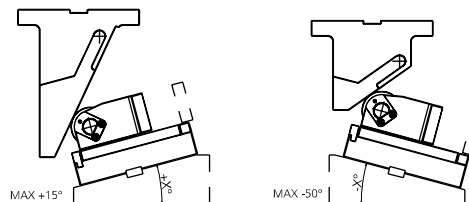


We suggest you to assembly by using a thrust mount key

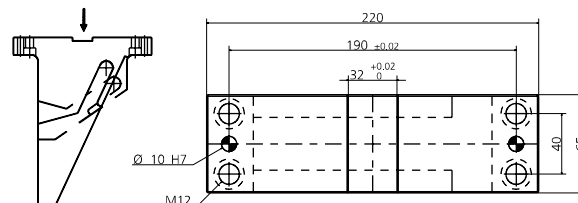


| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0049.0480</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | <b>8007.0049.0400</b>         | SLITTA / SLIDER / LAGERKEIL                                    | 1        |
| 003  | <b>8088.0049.0400.001</b>     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 004  | <b>8088.0049.0400.002</b>     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 005  | <b>8088.0049.0400.003</b>     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 007  | <b>8005.1250.1067.400.001</b> | PERNO / PIN / STIFT  | 1        |
| 008  | <b>8090.0405.A080.000</b>     | CUNEO / WEDGE / DRUCKSTÜCK 0                                   | 1*OPTION |
| 008  | <b>8090.0405.A080.605</b>     | CUNEO / WEDGE / DRUCKSTÜCK +5                                  | 1*OPTION |
| 008  | <b>8090.0405.A080.610</b>     | CUNEO / WEDGE / DRUCKSTÜCK +10                                 | 1*OPTION |
| 008  | <b>8090.0405.A080.615</b>     | CUNEO / WEDGE / DRUCKSTÜCK +15                                 | 1*OPTION |
| 008  | <b>8090.0405.A080.705</b>     | CUNEO / WEDGE / DRUCKSTÜCK -5                                  | 1*OPTION |
| 008  | <b>8090.0405.A080.710</b>     | CUNEO / WEDGE / DRUCKSTÜCK -10                                 | 1*OPTION |
| 008  | <b>8090.0405.A080.715</b>     | CUNEO / WEDGE / DRUCKSTÜCK -15                                 | 1*OPTION |
| 008  | <b>8090.0405.A080.720</b>     | CUNEO / WEDGE / DRUCKSTÜCK -20                                 | 1*OPTION |
| 008  | <b>8090.0405.A080.725</b>     | CUNEO / WEDGE / DRUCKSTÜCK -25                                 | 1*OPTION |
| 008  | <b>8090.0405.A080.730</b>     | CUNEO / WEDGE / DRUCKSTÜCK -30                                 | 1*OPTION |
| 008  | <b>8090.0405.A080.735</b>     | CUNEO / WEDGE / DRUCKSTÜCK -35                                 | 1*OPTION |
| 008  | <b>8090.0405.A080.740</b>     | CUNEO / WEDGE / DRUCKSTÜCK -40                                 | 1*OPTION |
| 008  | <b>8090.0405.A080.745</b>     | CUNEO / WEDGE / DRUCKSTÜCK -45                                 | 1*OPTION |
| 008  | <b>8090.0405.A080.750</b>     | CUNEO / WEDGE / DRUCKSTÜCK -50                                 | 1*OPTION |
| 009  | <b>8086.2120.0390.240.001</b> | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 010  | <b>8086.2120.0390.240.002</b> | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 011  | <b>8012.2100.0500.100.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE              | 2        |
| 012  | <b>8006.0215.0660.400.001</b> | RONDELLA / WASHER / UNTERLEGSCHEIBE                            | 2        |
| 013  | <b>8004.0900.0705.500.001</b> | ROTELLA / ROLLER / ROLLE                                       | 1        |
| 014  | <b>9033.4266.015</b>          | RALLA / THRUST WASHER / DRUCKSCHEIBE                           | 2        |
| 015  | <b>9020.06.10.E090</b>        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 5        |
| 017  | <b>9000.0080.0032.001</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 1        |
| 018  | <b>9035.4050.700.001</b>      | BOCCOLA / BUSH / BÜCHSE  | 1        |
| 019  | <b>9003.0002</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 020  | <b>8087.0400.0140.090.001</b> | CHIAVETTA / KEY / SCHLÜSSEL                                    | 2        |
| 021  | <b>8089.0328.0200.001</b>     | DISTANZIALE / SPACER / ABSTANDSHALTER                          | 1        |
| 023  | <b>9007.06.020.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X20                                  | 4        |
| 024  | <b>9007.10.030.129.1.4762</b> | VITE / SCREW / SCHRAUBE M10X30                                 | 6        |
| 025  | <b>9007.06.012.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X12                                  | 2        |
| 026  | <b>9007.10.020.129.1.9327</b> | VITE / SCREW / SCHRAUBE M10X20                                 | 6        |
| 027  | <b>9007.06.030.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X30                                  | 2        |
| 028  | <b>9007.06.016.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X16                                  | 4        |

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



**19** PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0149.K480** INCLINATION **+10°** OPTION CODE **9003.0002**

# 0149.P4A0 - CAM ROLLER P4A0

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE

350 daN

SFORZO MAX TRANCIO 16600 daN

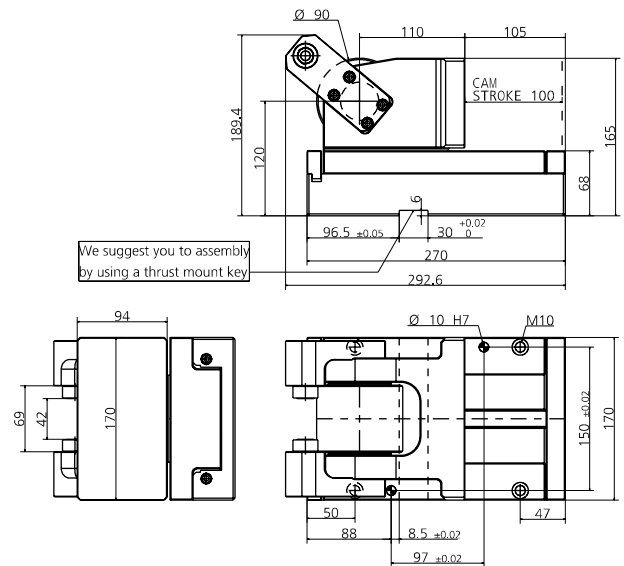
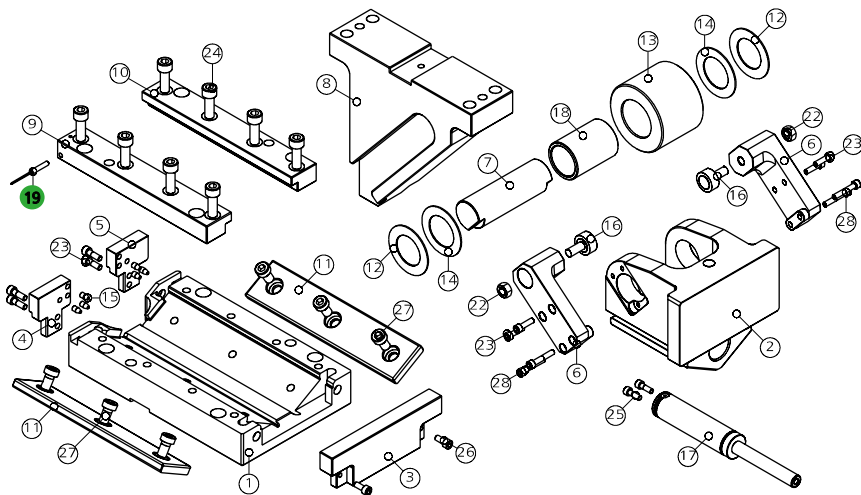
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

CUTTING MAX FORCE

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION

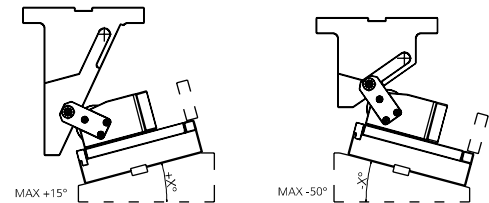
661 daN

MAXIMALE SCHNITTKRAFT  
EFFORT MAXI DÉCOUPE

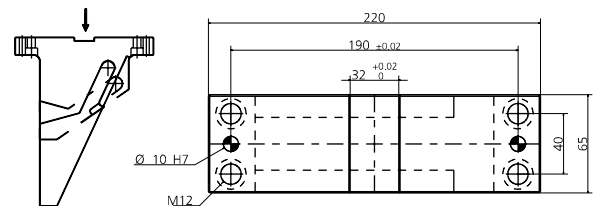


| POS. | CODE                   | DESCRIPTION  | Q.TY     |
|------|------------------------|--|----------|
| 001  | 8000.0049.04A0         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | 8007.0049.0400         | SLITTA / SLIDER / LAGERKEIL                                    | 1        |
| 003  | 8088.0049.0400.001     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 004  | 8088.0049.0400.002     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 005  | 8088.0049.0400.003     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 006  | 8009.0049.0400         | STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG  | 2        |
| 007  | 8005.1250.1067.400.001 | PERNO / PIN / STIFT  | 1        |
| 008  | 8090.0405.A080.000     | CUNEO / WEDGE / DRUCKSTÜCK 0                                   | 1*OPTION |
| 008  | 8090.0405.A080.605     | CUNEO / WEDGE / DRUCKSTÜCK +5                                  | 1*OPTION |
| 008  | 8090.0405.A080.610     | CUNEO / WEDGE / DRUCKSTÜCK +10                                 | 1*OPTION |
| 008  | 8090.0405.A080.615     | CUNEO / WEDGE / DRUCKSTÜCK +15                                 | 1*OPTION |
| 008  | 8090.0405.A080.705     | CUNEO / WEDGE / DRUCKSTÜCK -5                                  | 1*OPTION |
| 008  | 8090.0405.A080.710     | CUNEO / WEDGE / DRUCKSTÜCK -10                                 | 1*OPTION |
| 008  | 8090.0405.A080.715     | CUNEO / WEDGE / DRUCKSTÜCK -15                                 | 1*OPTION |
| 008  | 8090.0405.A080.720     | CUNEO / WEDGE / DRUCKSTÜCK -20                                 | 1*OPTION |
| 008  | 8090.0405.A080.725     | CUNEO / WEDGE / DRUCKSTÜCK -25                                 | 1*OPTION |
| 008  | 8090.0405.A080.730     | CUNEO / WEDGE / DRUCKSTÜCK -30                                 | 1*OPTION |
| 008  | 8090.0405.A080.735     | CUNEO / WEDGE / DRUCKSTÜCK -35                                 | 1*OPTION |
| 008  | 8090.0405.A080.740     | CUNEO / WEDGE / DRUCKSTÜCK -40                                 | 1*OPTION |
| 008  | 8090.0405.A080.745     | CUNEO / WEDGE / DRUCKSTÜCK -45                                 | 1*OPTION |
| 008  | 8090.0405.A080.750     | CUNEO / WEDGE / DRUCKSTÜCK -50                                 | 1*OPTION |
| 009  | 8086.2320.0390.240.001 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 010  | 8086.2320.0390.240.002 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 011  | 8012.2300.0500.100.001 | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE              | 2        |
| 012  | 8006.0215.0660.400.001 | RONDELLA / WASHER / UNTERLEGSCHIEBE                            | 2        |
| 013  | 8004.0900.0705.500.001 | ROTELLA / ROLLER / ROLLE                                       | 1        |
| 014  | 9033.4266.015          | RALLA / THRUST WASHER / DRUCKSCHEIBE                           | 2        |
| 015  | 9020.06.10.E090        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 5        |
| 016  | 8005.0360.0130.260.001 | PERNO / PIN / STIFT  | 2        |
| 017  | 9000.0100.0032.001     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 1        |
| 018  | 9035.4050.700.001      | BOCCOLA / BUSH / BUCHSE  | 1        |
| 019  | 9003.0002              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 022  | 9014.10.008.008.1.4032 | DADO / NUT / MUTTER M10  | 2        |
| 023  | 9007.06.020.129.1.4762 | VITE / SCREW / SCHRAUBE M6X20                                  | 8        |
| 024  | 9007.10.030.129.1.4762 | VITE / SCREW / SCHRAUBE M10X30                                 | 8        |
| 025  | 9007.06.014.129.1.4762 | VITE / SCREW / SCHRAUBE M6X14                                  | 4        |
| 026  | 9007.06.012.129.1.4762 | VITE / SCREW / SCHRAUBE M6X12                                  | 2        |
| 027  | 9007.10.020.129.1.9327 | VITE / SCREW / SCHRAUBE M10X20                                 | 6        |
| 028  | 9007.06.035.129.1.4762 | VITE / SCREW / SCHRAUBE M6X35                                  | 4        |

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

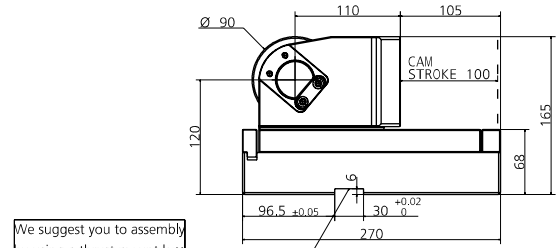
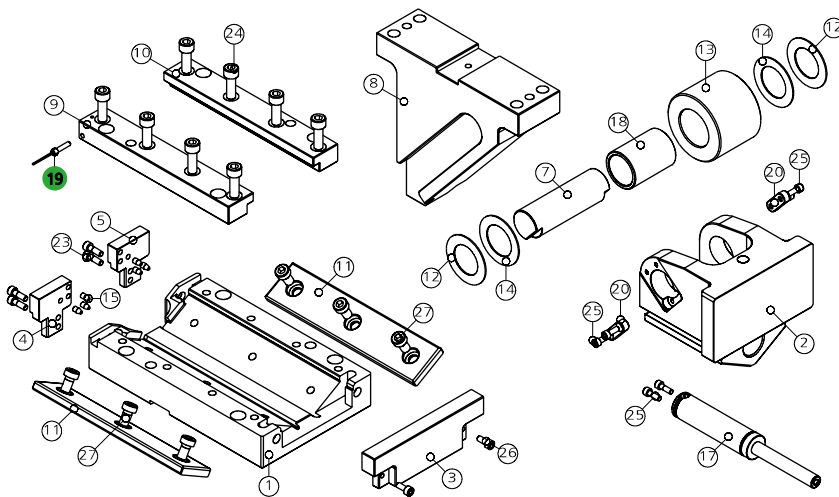
MODEL **0149.P4A0** INCLINATION **+10°** OPTION CODE **9003.0002**

# 0149.K4A0 - CAM ROLLER K4A0

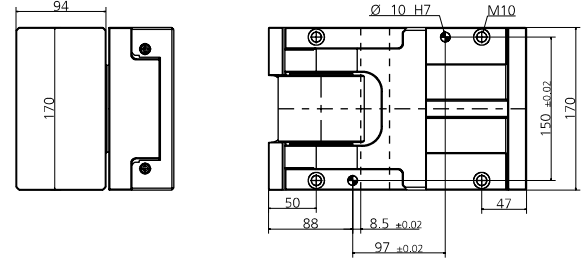
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE  
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION  
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

**350 daN**  
**661 daN**

SFORZO MAX TRANCIO 16600 daN  
CUTTING MAX FORCE  
MAXIMALE SCHNITTKRAFT  
EFFORT MAXI DÉCOUPE



We suggest you to assembly by using a thrust mount key

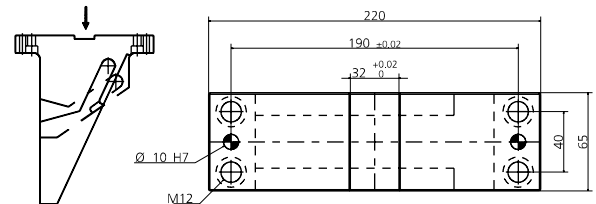


| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0049.04A0</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | <b>8007.0049.0400</b>         | SLITTA / SLIDER / LAGERKEIL                                    | 1        |
| 003  | <b>8088.0049.0400.001</b>     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 004  | <b>8088.0049.0400.002</b>     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 005  | <b>8088.0049.0400.003</b>     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 007  | <b>8005.1250.1067.400.001</b> | PERNO / PIN / STIFT  | 1        |
| 008  | <b>8090.0405.A080.000</b>     | CUNEO / WEDGE / DRUCKSTÜCK 0                                   | 1*OPTION |
| 008  | <b>8090.0405.A080.605</b>     | CUNEO / WEDGE / DRUCKSTÜCK +5                                  | 1*OPTION |
| 008  | <b>8090.0405.A080.610</b>     | CUNEO / WEDGE / DRUCKSTÜCK +10                                 | 1*OPTION |
| 008  | <b>8090.0405.A080.615</b>     | CUNEO / WEDGE / DRUCKSTÜCK +15                                 | 1*OPTION |
| 008  | <b>8090.0405.A080.705</b>     | CUNEO / WEDGE / DRUCKSTÜCK -5                                  | 1*OPTION |
| 008  | <b>8090.0405.A080.710</b>     | CUNEO / WEDGE / DRUCKSTÜCK -10                                 | 1*OPTION |
| 008  | <b>8090.0405.A080.715</b>     | CUNEO / WEDGE / DRUCKSTÜCK -15                                 | 1*OPTION |
| 008  | <b>8090.0405.A080.720</b>     | CUNEO / WEDGE / DRUCKSTÜCK -20                                 | 1*OPTION |
| 008  | <b>8090.0405.A080.725</b>     | CUNEO / WEDGE / DRUCKSTÜCK -25                                 | 1*OPTION |
| 008  | <b>8090.0405.A080.730</b>     | CUNEO / WEDGE / DRUCKSTÜCK -30                                 | 1*OPTION |
| 008  | <b>8090.0405.A080.735</b>     | CUNEO / WEDGE / DRUCKSTÜCK -35                                 | 1*OPTION |
| 008  | <b>8090.0405.A080.740</b>     | CUNEO / WEDGE / DRUCKSTÜCK -40                                 | 1*OPTION |
| 008  | <b>8090.0405.A080.745</b>     | CUNEO / WEDGE / DRUCKSTÜCK -45                                 | 1*OPTION |
| 008  | <b>8090.0405.A080.750</b>     | CUNEO / WEDGE / DRUCKSTÜCK -50                                 | 1*OPTION |
| 009  | <b>8086.2320.0390.240.001</b> | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 010  | <b>8086.2320.0390.240.002</b> | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 011  | <b>8012.2300.0500.100.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE              | 2        |
| 012  | <b>8006.0215.0660.400.001</b> | RONDELLA / WASHER / UNTERLEGSCHEIBE                            | 2        |
| 013  | <b>8004.0900.0705.500.001</b> | ROTELLA / ROLLER / ROLLE                                       | 1        |
| 014  | <b>9033.4266.015</b>          | RALLA / THRUST WASHER / DRUCKSCHEIBE                           | 2        |
| 015  | <b>9020.06.10.E090</b>        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 5        |
| 017  | <b>9000.0100.0032.001</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 1        |
| 018  | <b>9035.4050.700.001</b>      | BOCCOLA / BUSH / BÜCHSE  | 1        |
| 019  | <b>9003.0002</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 020  | <b>8087.0400.0140.090.001</b> | CHIAVETTA / KEY / SCHLÜSSEL                                    | 2        |
| 023  | <b>9007.06.020.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X20                                  | 4        |
| 024  | <b>9007.10.030.129.1.4762</b> | VITE / SCREW / SCHRAUBE M10X30                                 | 8        |
| 025  | <b>9007.06.014.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X14                                  | 6        |
| 026  | <b>9007.06.012.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X12                                  | 2        |
| 027  | <b>9007.10.020.129.1.9327</b> | VITE / SCREW / SCHRAUBE M10X20                                 | 6        |

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



**19** PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0149.K4A0** INCLINATION **+10°** OPTION CODE **9003.0002**

# 0149.P550 - CAM ROLLER P550

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE

500 daN

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

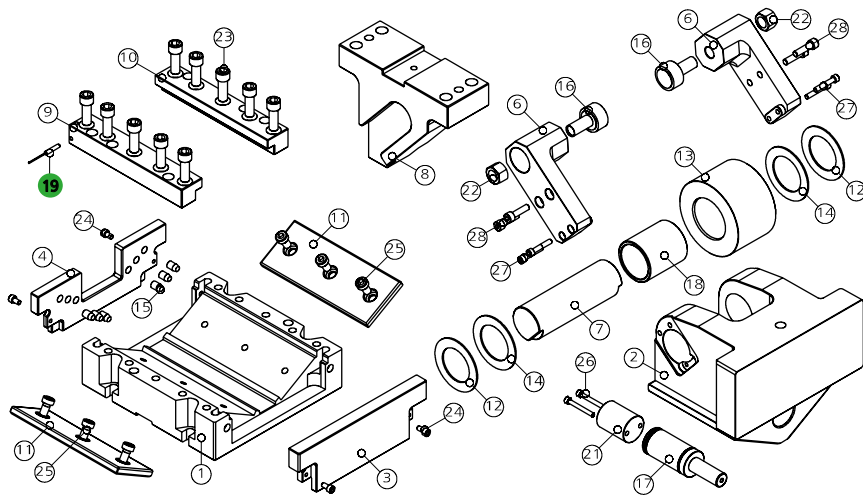
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION

926 daN

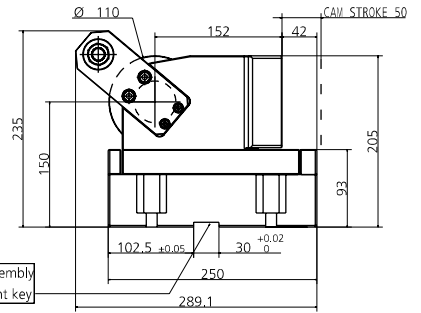
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO 25800 daN

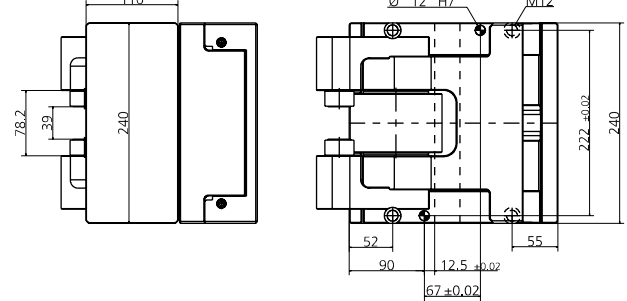
CUTTING MAX FORCE  
MAXIMALE SCHNITTKRAFT  
EFFORT MAXI DÉCOUPE



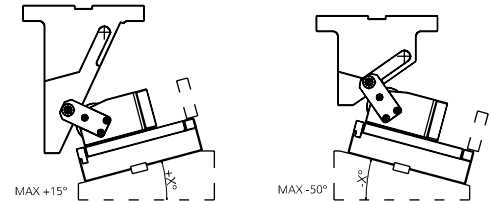
| POS. | CODE                   | DESCRIPTION  | Q.TY     |
|------|------------------------|--|----------|
| 001  | 8000.0049.0550         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | 8007.0049.0500         | SLITTA / SLIDER / LAGERKEIL                                    | 1        |
| 003  | 8088.0049.0500.001     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 004  | 8088.0049.0500.002     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 006  | 8009.0049.0500         | STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG  | 2        |
| 007  | 8005.1550.1417.500.001 | PERNO / PIN / STIFT  | 1        |
| 008  | 8090.0405.0050.000     | CUNEO / WEDGE / DRUCKSTÜCK 0                                   | 1*OPTION |
| 008  | 8090.0405.0050.605     | CUNEO / WEDGE / DRUCKSTÜCK +5                                  | 1*OPTION |
| 008  | 8090.0405.0050.610     | CUNEO / WEDGE / DRUCKSTÜCK +10                                 | 1*OPTION |
| 008  | 8090.0405.0050.615     | CUNEO / WEDGE / DRUCKSTÜCK +15                                 | 1*OPTION |
| 008  | 8090.0405.0050.705     | CUNEO / WEDGE / DRUCKSTÜCK -5                                  | 1*OPTION |
| 008  | 8090.0405.0050.710     | CUNEO / WEDGE / DRUCKSTÜCK -10                                 | 1*OPTION |
| 008  | 8090.0405.0050.715     | CUNEO / WEDGE / DRUCKSTÜCK -15                                 | 1*OPTION |
| 008  | 8090.0405.0050.720     | CUNEO / WEDGE / DRUCKSTÜCK -20                                 | 1*OPTION |
| 008  | 8090.0405.0050.725     | CUNEO / WEDGE / DRUCKSTÜCK -25                                 | 1*OPTION |
| 008  | 8090.0405.0050.730     | CUNEO / WEDGE / DRUCKSTÜCK -30                                 | 1*OPTION |
| 008  | 8090.0405.0050.735     | CUNEO / WEDGE / DRUCKSTÜCK -35                                 | 1*OPTION |
| 008  | 8090.0405.0050.740     | CUNEO / WEDGE / DRUCKSTÜCK -40                                 | 1*OPTION |
| 008  | 8090.0405.0050.745     | CUNEO / WEDGE / DRUCKSTÜCK -45                                 | 1*OPTION |
| 008  | 8090.0405.0050.750     | CUNEO / WEDGE / DRUCKSTÜCK -50                                 | 1*OPTION |
| 009  | 8086.2120.0390.300.001 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 010  | 8086.2120.0390.300.002 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 011  | 8012.2000.0750.100.001 | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE              | 2        |
| 012  | 8006.0220.0780.505.001 | RONDELLA / WASHER / UNTERLEGSCHIBE                             | 2        |
| 013  | 8004.1100.0705.600.001 | ROTELLA / ROLLER / ROLLE                                       | 1        |
| 014  | 9033.5278.020          | RALLA / THRUST WASHER / DRUCKSCHEIBE                           | 2        |
| 015  | 9020.10.15.E090        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 6        |
| 016  | 8005.0530.0190.350.001 | PERNO / PIN / STIFT  | 2        |
| 017  | 9000.0050.0038.001     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 1        |
| 018  | 9035.5060.700.001      | BOCCOLA / BUSH / BUCHSE  | 1        |
| 019  | 9003.0002              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 021  | 8089.0388.0500.001     | DISTANZIALE / SPACER / ABSTANDSHALTER                          | 1        |
| 022  | 9014.16.016.008.1.4032 | DADO / NUT / MUTTER M16  | 2        |
| 023  | 9007.12.035.129.1.4762 | VITE / SCREW / SCHRAUBE M12X35                                 | 10       |
| 024  | 9007.06.012.129.1.4762 | VITE / SCREW / SCHRAUBE M6X12                                  | 4        |
| 025  | 9007.10.020.129.1.9327 | VITE / SCREW / SCHRAUBE M10X20                                 | 6        |
| 026  | 9007.06.075.129.1.4762 | VITE / SCREW / SCHRAUBE M6X75                                  | 2        |
| 027  | 9007.06.035.129.1.4762 | VITE / SCREW / SCHRAUBE M6X35                                  | 4        |
| 028  | 9007.08.030.129.1.4762 | VITE / SCREW / SCHRAUBE M8X30                                  | 4        |



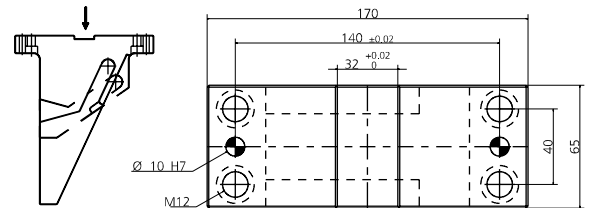
We suggest you to assembly by using a thrust mount key



POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

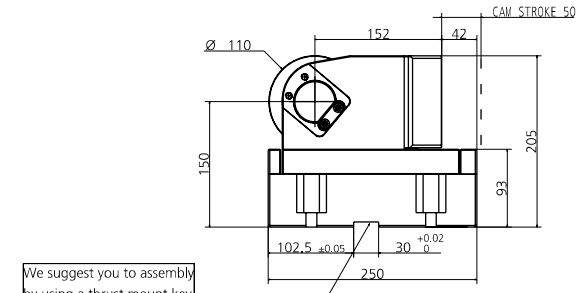
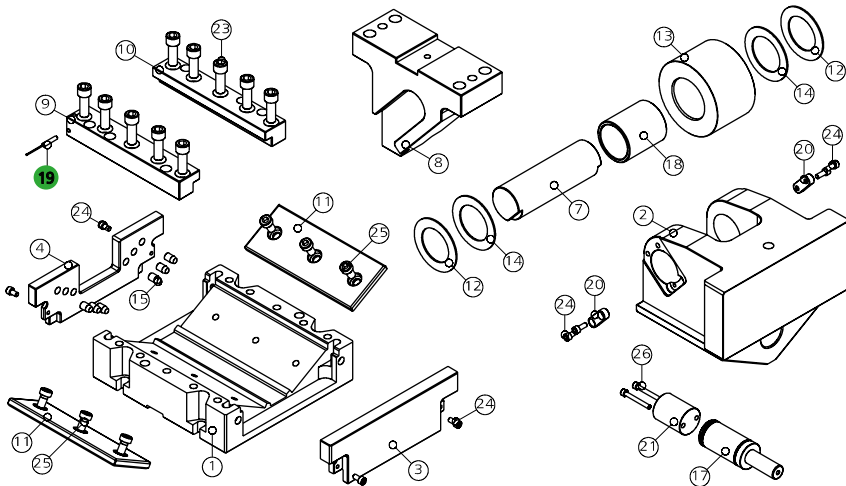
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0149.P550** INCLINATION **+10°** OPTION CODE **9003.0002**

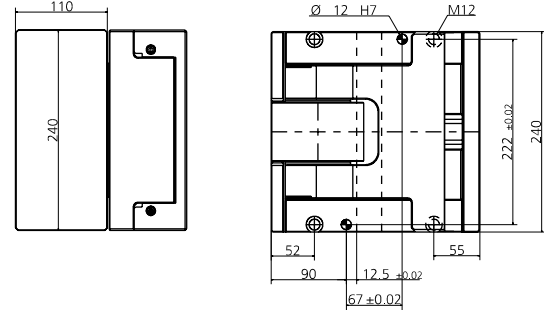
# 0149.K550 - CAM ROLLER K550

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **500 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **926 daN**  
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **25800 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE

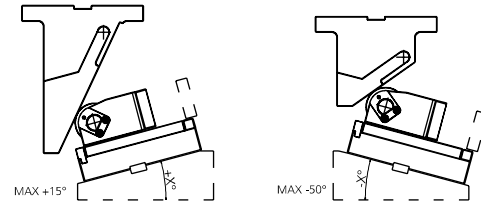


We suggest you to assembly by using a thrust mount key

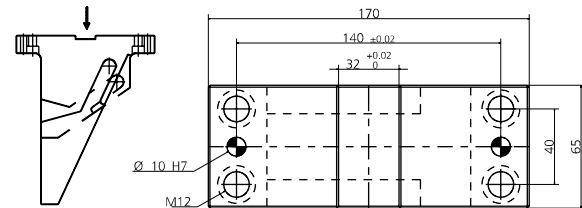


| POS. | CODE                   | DESCRIPTION  | Q.TY     |
|------|------------------------|--|----------|
| 001  | 8000.0049.0550         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | 8007.0049.0500         | SLITTA / SLIDER / LAGERKEIL                                    | 1        |
| 003  | 8088.0049.0500.001     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 004  | 8088.0049.0500.002     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 007  | 8005.1550.1417.500.001 | PERNO / PIN / STIFT  | 1        |
| 008  | 8090.0405.0050.000     | CUNEO / WEDGE / DRUCKSTÜCK 0                                   | 1*OPTION |
| 008  | 8090.0405.0050.605     | CUNEO / WEDGE / DRUCKSTÜCK +5                                  | 1*OPTION |
| 008  | 8090.0405.0050.610     | CUNEO / WEDGE / DRUCKSTÜCK +10                                 | 1*OPTION |
| 008  | 8090.0405.0050.615     | CUNEO / WEDGE / DRUCKSTÜCK +15                                 | 1*OPTION |
| 008  | 8090.0405.0050.705     | CUNEO / WEDGE / DRUCKSTÜCK -5                                  | 1*OPTION |
| 008  | 8090.0405.0050.710     | CUNEO / WEDGE / DRUCKSTÜCK -10                                 | 1*OPTION |
| 008  | 8090.0405.0050.715     | CUNEO / WEDGE / DRUCKSTÜCK -15                                 | 1*OPTION |
| 008  | 8090.0405.0050.720     | CUNEO / WEDGE / DRUCKSTÜCK -20                                 | 1*OPTION |
| 008  | 8090.0405.0050.725     | CUNEO / WEDGE / DRUCKSTÜCK -25                                 | 1*OPTION |
| 008  | 8090.0405.0050.730     | CUNEO / WEDGE / DRUCKSTÜCK -30                                 | 1*OPTION |
| 008  | 8090.0405.0050.735     | CUNEO / WEDGE / DRUCKSTÜCK -35                                 | 1*OPTION |
| 008  | 8090.0405.0050.740     | CUNEO / WEDGE / DRUCKSTÜCK -40                                 | 1*OPTION |
| 008  | 8090.0405.0050.745     | CUNEO / WEDGE / DRUCKSTÜCK -45                                 | 1*OPTION |
| 008  | 8090.0405.0050.750     | CUNEO / WEDGE / DRUCKSTÜCK -50                                 | 1*OPTION |
| 009  | 8086.2120.0390.300.001 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 010  | 8086.2120.0390.300.002 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 011  | 8012.2000.0750.100.001 | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE              | 2        |
| 012  | 8006.0220.0780.505.001 | RONDELLA / WASHER / UNTERLEGSCHIBE                             | 2        |
| 013  | 8004.1100.0705.600.001 | ROTELLA / ROLLER / ROLLE                                       | 1        |
| 014  | 9033.5278.020          | RALLA / THRUST WASHER / DRUCKSCHEIBE                           | 2        |
| 015  | 9020.10.15.E090        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 6        |
| 017  | 9000.0050.0038.001     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 1        |
| 018  | 9035.5060.700.001      | BOCCOLA / BUSH / BUCHSE  | 1        |
| 019  | 9003.0002              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 020  | 8087.0400.0140.090.001 | CHIAVETTA / KEY / SCHLÜSSEL                                    | 2        |
| 021  | 8089.0388.0500.001     | DISTANZIALE / SPACER / ABSTANDSHALTER                          | 1        |
| 023  | 9007.12.035.129.1.4762 | VITE / SCREW / SCHRAUBE M12X35                                 | 10       |
| 024  | 9007.06.012.129.1.4762 | VITE / SCREW / SCHRAUBE M6X12                                  | 8        |
| 025  | 9007.10.020.129.1.9327 | VITE / SCREW / SCHRAUBE M10X20                                 | 6        |
| 026  | 9007.06.075.129.1.4762 | VITE / SCREW / SCHRAUBE M6X75                                  | 2        |

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



**19** PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0149.K550** INCLINATION **+10°** OPTION CODE **9003.0002**



# 0149.P580 - CAM ROLLER P580

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE

500 daN

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

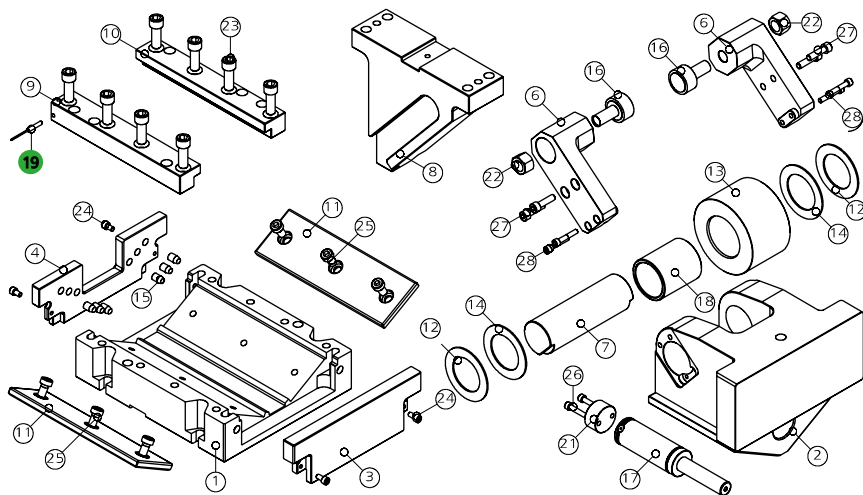
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION

936 daN

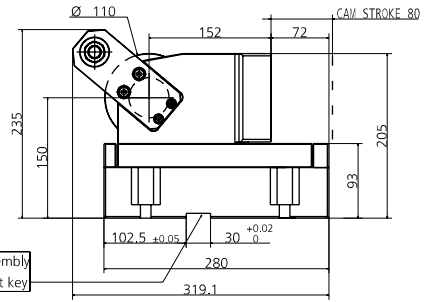
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO 25800 daN

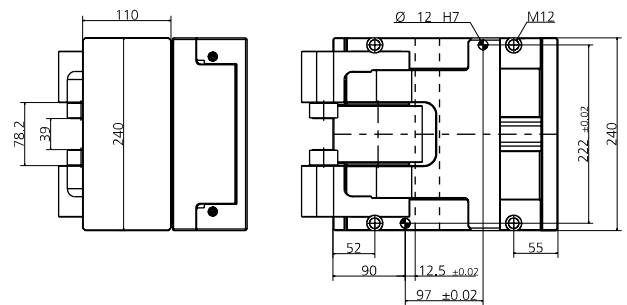
CUTTING MAX FORCE  
MAXIMALE SCHNITTKRAFT  
EFFORT MAXI DÉCOUPE



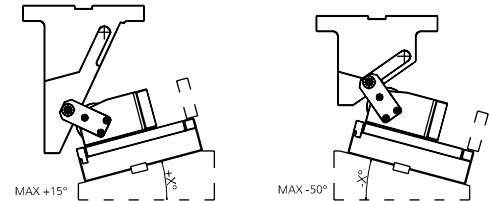
| POS. | CODE                   | DESCRIPTION  | Q.TY     |
|------|------------------------|--|----------|
| 001  | 8000.0049.0580         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                              | 1        |
| 002  | 8007.0049.0500         | SLITTA / SLIDER / LAGERKEIL  | 1        |
| 003  | 8088.0049.0500.001     | PIASTRINA / PLATE / PLATTE   | 1        |
| 004  | 8088.0049.0500.002     | PIASTRINA / PLATE / PLATTE   | 1        |
| 006  | 8009.0049.0500         | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG | 2        |
| 007  | 8005.1550.1417.500.001 | PERNO / PIN / STIFT  | 1        |
| 008  | 8090.0405.A080.000     | CUNEO / WEDGE / DRUCKSTÜCK 0                                       | 1*OPTION |
| 008  | 8090.0405.A080.605     | CUNEO / WEDGE / DRUCKSTÜCK +5                                      | 1*OPTION |
| 008  | 8090.0405.A080.610     | CUNEO / WEDGE / DRUCKSTÜCK +10                                     | 1*OPTION |
| 008  | 8090.0405.A080.615     | CUNEO / WEDGE / DRUCKSTÜCK +15                                     | 1*OPTION |
| 008  | 8090.0405.A080.705     | CUNEO / WEDGE / DRUCKSTÜCK -5                                      | 1*OPTION |
| 008  | 8090.0405.A080.710     | CUNEO / WEDGE / DRUCKSTÜCK -10                                     | 1*OPTION |
| 008  | 8090.0405.A080.715     | CUNEO / WEDGE / DRUCKSTÜCK -15                                     | 1*OPTION |
| 008  | 8090.0405.A080.720     | CUNEO / WEDGE / DRUCKSTÜCK -20                                     | 1*OPTION |
| 008  | 8090.0405.A080.725     | CUNEO / WEDGE / DRUCKSTÜCK -25                                     | 1*OPTION |
| 008  | 8090.0405.A080.730     | CUNEO / WEDGE / DRUCKSTÜCK -30                                     | 1*OPTION |
| 008  | 8090.0405.A080.735     | CUNEO / WEDGE / DRUCKSTÜCK -35                                     | 1*OPTION |
| 008  | 8090.0405.A080.740     | CUNEO / WEDGE / DRUCKSTÜCK -40                                     | 1*OPTION |
| 008  | 8090.0405.A080.745     | CUNEO / WEDGE / DRUCKSTÜCK -45                                     | 1*OPTION |
| 008  | 8090.0405.A080.750     | CUNEO / WEDGE / DRUCKSTÜCK -50                                     | 1*OPTION |
| 009  | 8086.2420.0390.300.001 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE      | 1        |
| 010  | 8086.2420.0390.300.002 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE      | 1        |
| 011  | 8012.2400.0750.100.001 | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE                  | 2        |
| 012  | 8006.0220.0780.505.001 | RONDELLA / WASHER / UNTERLEGSCHIBE                                 | 2        |
| 013  | 8004.1100.0705.600.001 | ROTELLA / ROLLER / ROLLE   | 1        |
| 014  | 9033.5278.020          | RALLA / THRUST WASHER / DRUCKSCHEIBE                               | 2        |
| 015  | 9020.10.15.E090        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                                 | 6        |
| 016  | 8005.0530.0190.350.001 | PERNO / PIN / STIFT  | 2        |
| 017  | 9000.0080.0038.002     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER         | 1        |
| 018  | 9035.5060.700.001      | BOCCOLA / BUSH / BUCHSE  | 1        |
| 019  | 9003.0002              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT     | 1*OPTION |
| 021  | 8089.0388.0200.001     | DISTANZIALE / SPACER / ABSTANDSHALTER                              | 1        |
| 022  | 9014.16.016.008.1.4032 | DADO / NUT / MUTTER M16  | 2        |
| 023  | 9007.12.035.129.1.4762 | VITE / SCREW / SCHRAUBE M12X35                                     | 8        |
| 024  | 9007.06.012.129.1.4762 | VITE / SCREW / SCHRAUBE M6X12                                      | 4        |
| 025  | 9007.10.020.129.1.9327 | VITE / SCREW / SCHRAUBE M10X20                                     | 6        |
| 026  | 9007.06.045.129.1.4762 | VITE / SCREW / SCHRAUBE M6X45                                      | 2        |
| 027  | 9007.08.030.129.1.4762 | VITE / SCREW / SCHRAUBE M8X30                                      | 4        |
| 028  | 9007.06.035.129.1.4762 | VITE / SCREW / SCHRAUBE M6X35                                      | 4        |



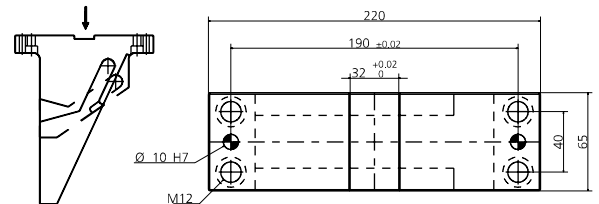
We suggest you to assembly by using a thrust mount key



POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

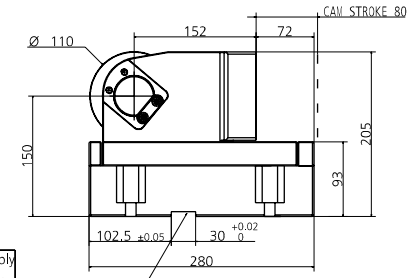
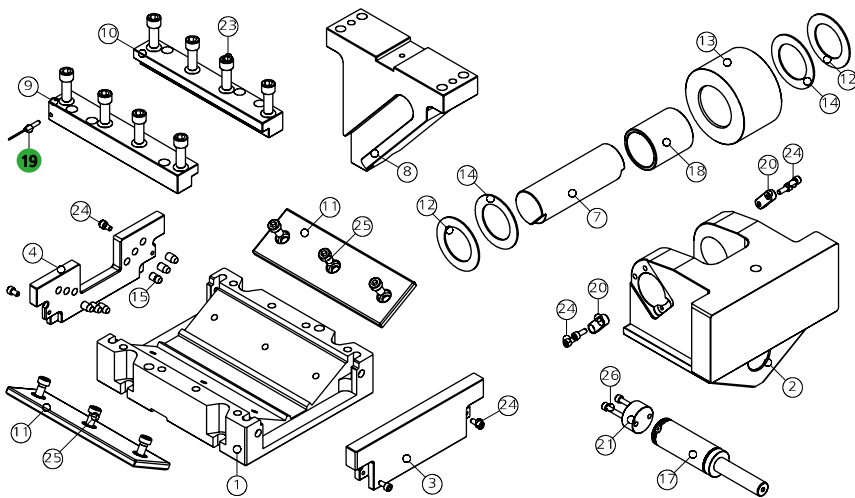
MODEL **0149.P580** INCLINATION **+10°** OPTION CODE **9003.0002**



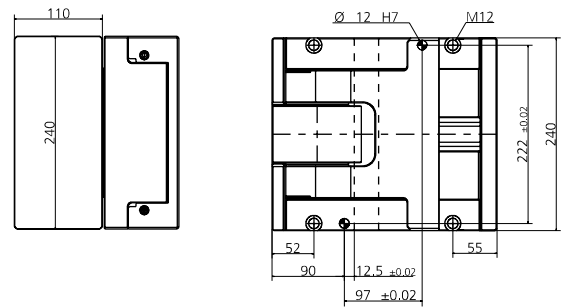
# 0149.K580 - CAM ROLLER K580

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **500 daN**  
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **936 daN**  
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION

SPORZO MAX TRANCIO **25800 daN**  
 CUTTING MAX FORCE  
 MAXIMALE SCHNITTKRAFT  
 EFFORT MAXI DÉCOUPE

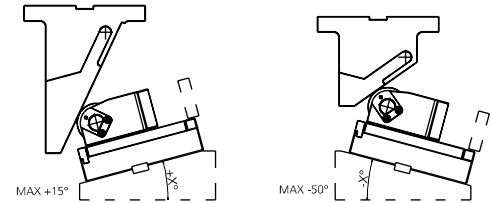


We suggest you to assembly by using a thrust mount key

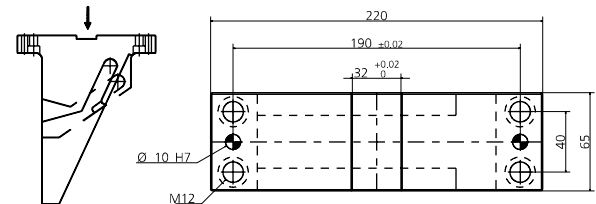


| POS. | CODE                   | DESCRIPTION  | Q.TY     |
|------|------------------------|--|----------|
| 001  | 8000.0049.0580         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | 8007.0049.0500         | SLITTA / SLIDER / LAGERKEIL                                    | 1        |
| 003  | 8088.0049.0500.001     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 004  | 8088.0049.0500.002     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 007  | 8005.1550.1417.500.001 | PERNO / PIN / STIFT  | 1        |
| 008  | 8090.0405.A080.000     | CUNEO / WEDGE / DRUCKSTÜCK 0                                   | 1*OPTION |
| 008  | 8090.0405.A080.605     | CUNEO / WEDGE / DRUCKSTÜCK +5                                  | 1*OPTION |
| 008  | 8090.0405.A080.610     | CUNEO / WEDGE / DRUCKSTÜCK +10                                 | 1*OPTION |
| 008  | 8090.0405.A080.615     | CUNEO / WEDGE / DRUCKSTÜCK +15                                 | 1*OPTION |
| 008  | 8090.0405.A080.705     | CUNEO / WEDGE / DRUCKSTÜCK -5                                  | 1*OPTION |
| 008  | 8090.0405.A080.710     | CUNEO / WEDGE / DRUCKSTÜCK -10                                 | 1*OPTION |
| 008  | 8090.0405.A080.715     | CUNEO / WEDGE / DRUCKSTÜCK -15                                 | 1*OPTION |
| 008  | 8090.0405.A080.720     | CUNEO / WEDGE / DRUCKSTÜCK -20                                 | 1*OPTION |
| 008  | 8090.0405.A080.725     | CUNEO / WEDGE / DRUCKSTÜCK -25                                 | 1*OPTION |
| 008  | 8090.0405.A080.730     | CUNEO / WEDGE / DRUCKSTÜCK -30                                 | 1*OPTION |
| 008  | 8090.0405.A080.735     | CUNEO / WEDGE / DRUCKSTÜCK -35                                 | 1*OPTION |
| 008  | 8090.0405.A080.740     | CUNEO / WEDGE / DRUCKSTÜCK -40                                 | 1*OPTION |
| 008  | 8090.0405.A080.745     | CUNEO / WEDGE / DRUCKSTÜCK -45                                 | 1*OPTION |
| 008  | 8090.0405.A080.750     | CUNEO / WEDGE / DRUCKSTÜCK -50                                 | 1*OPTION |
| 009  | 8086.2420.0390.300.001 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 010  | 8086.2420.0390.300.002 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 011  | 8012.2400.0750.100.001 | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE              | 2        |
| 012  | 8006.0220.0780.505.001 | RONDELLA / WASHER / UNTERLEGSCHIBE                             | 2        |
| 013  | 8004.1100.0705.600.001 | ROTELLA / ROLLER / ROLLE                                       | 1        |
| 014  | 9033.5278.020          | RALLA / THRUST WASHER / DRUCKSCHEIBE                           | 2        |
| 015  | 9020.10.15.E090        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 6        |
| 017  | 9000.0080.0038.002     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 1        |
| 018  | 9035.5060.700.001      | BOCCOLA / BUSH / BUCHSE  | 1        |
| 019  | 9003.0002              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 020  | 8087.0400.0140.090.001 | CHIAVETTA / KEY / SCHLÜSSEL                                    | 2        |
| 021  | 8089.0388.0200.001     | DISTANZIALE / SPACER / ABSTANDSHALTER                          | 1        |
| 023  | 9007.12.035.129.1.4762 | VITE / SCREW / SCHRAUBE M12X35                                 | 8        |
| 024  | 9007.06.012.129.1.4762 | VITE / SCREW / SCHRAUBE M6X12                                  | 8        |
| 025  | 9007.10.020.129.1.9327 | VITE / SCREW / SCHRAUBE M10X20                                 | 6        |
| 026  | 9007.06.045.129.1.4762 | VITE / SCREW / SCHRAUBE M6X45                                  | 2        |

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0149.K580** INCLINATION **+10°** OPTION CODE **9003.0002**

# 0149.P5A0 - CAM ROLLER P5A0

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE

500 daN

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

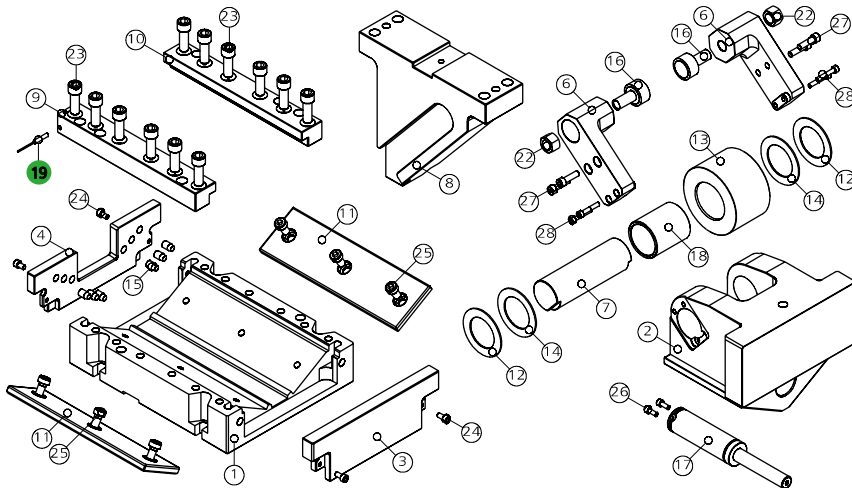
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION

938 daN

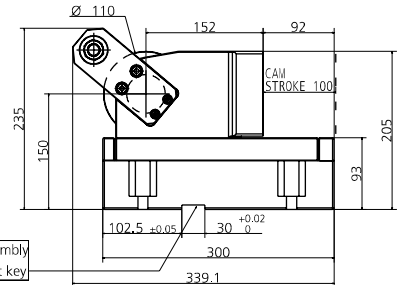
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO 25800 daN

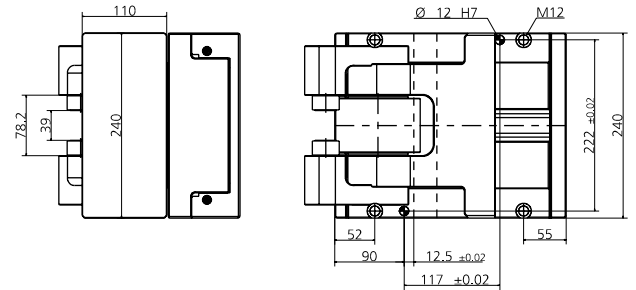
CUTTING MAX FORCE  
MAXIMALE SCHNITTKRAFT  
EFFORT MAXI DÉCOUPE



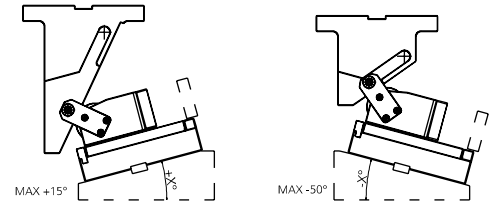
| POS. | CODE                   | DESCRIPTION  | Q.TY     |
|------|------------------------|--|----------|
| 001  | 8000.0049.05A0         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                              | 1        |
| 002  | 8007.0049.0500         | SLITTA / SLIDER / LAGERKEIL  | 1        |
| 003  | 8088.0049.0500.001     | PIASTRINA / PLATE / PLATTE   | 1        |
| 004  | 8088.0049.0500.002     | PIASTRINA / PLATE / PLATTE   | 1        |
| 006  | 8009.0049.0500         | STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG | 2        |
| 007  | 8005.1550.1417.500.001 | PERNO / PIN / STIFT  | 1        |
| 008  | 8090.0405.A080.000     | CUNEO / WEDGE / DRUCKSTÜCK 0                                       | 1*OPTION |
| 008  | 8090.0405.A080.605     | CUNEO / WEDGE / DRUCKSTÜCK +5                                      | 1*OPTION |
| 008  | 8090.0405.A080.610     | CUNEO / WEDGE / DRUCKSTÜCK +10                                     | 1*OPTION |
| 008  | 8090.0405.A080.615     | CUNEO / WEDGE / DRUCKSTÜCK +15                                     | 1*OPTION |
| 008  | 8090.0405.A080.705     | CUNEO / WEDGE / DRUCKSTÜCK -5                                      | 1*OPTION |
| 008  | 8090.0405.A080.710     | CUNEO / WEDGE / DRUCKSTÜCK -10                                     | 1*OPTION |
| 008  | 8090.0405.A080.715     | CUNEO / WEDGE / DRUCKSTÜCK -15                                     | 1*OPTION |
| 008  | 8090.0405.A080.720     | CUNEO / WEDGE / DRUCKSTÜCK -20                                     | 1*OPTION |
| 008  | 8090.0405.A080.725     | CUNEO / WEDGE / DRUCKSTÜCK -25                                     | 1*OPTION |
| 008  | 8090.0405.A080.730     | CUNEO / WEDGE / DRUCKSTÜCK -30                                     | 1*OPTION |
| 008  | 8090.0405.A080.735     | CUNEO / WEDGE / DRUCKSTÜCK -35                                     | 1*OPTION |
| 008  | 8090.0405.A080.740     | CUNEO / WEDGE / DRUCKSTÜCK -40                                     | 1*OPTION |
| 008  | 8090.0405.A080.745     | CUNEO / WEDGE / DRUCKSTÜCK -45                                     | 1*OPTION |
| 008  | 8090.0405.A080.750     | CUNEO / WEDGE / DRUCKSTÜCK -50                                     | 1*OPTION |
| 009  | 8086.2620.0390.300.001 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE      | 1        |
| 010  | 8086.2620.0390.300.002 | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE      | 1        |
| 011  | 8012.2600.0750.100.001 | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE                  | 2        |
| 012  | 8006.0220.0780.505.001 | RONDELLA / WASHER / UNTERLEGSCHIBE                                 | 2        |
| 013  | 8004.1100.0705.600.001 | ROTELLA / ROLLER / ROLLE   | 1        |
| 014  | 9033.5278.020          | RALLA / THRUST WASHER / DRUCKSCHEIBE                               | 2        |
| 015  | 9020.10.15.E090        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                                 | 6        |
| 016  | 8005.0530.0190.350.001 | PERNO / PIN / STIFT  | 2        |
| 017  | 9000.0100.0038.001     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER         | 1        |
| 018  | 9035.5060.700.001      | BOCCOLA / BUSH / BUCHSE  | 1        |
| 019  | 9003.0002              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT     | 1*OPTION |
| 022  | 9014.16.016.008.1.4032 | DADO / NUT / MUTTER M16  | 2        |
| 023  | 9007.12.035.129.1.4762 | VITE / SCREW / SCHRAUBE M12X35                                     | 12       |
| 024  | 9007.06.012.129.1.4762 | VITE / SCREW / SCHRAUBE M6X12                                      | 4        |
| 025  | 9007.10.020.129.1.9327 | VITE / SCREW / SCHRAUBE M10X20                                     | 6        |
| 026  | 9007.06.025.129.1.4762 | VITE / SCREW / SCHRAUBE M6X25                                      | 2        |
| 027  | 9007.08.030.129.1.4762 | VITE / SCREW / SCHRAUBE M8X30                                      | 4        |
| 028  | 9007.06.035.129.1.4762 | VITE / SCREW / SCHRAUBE M6X35                                      | 4        |



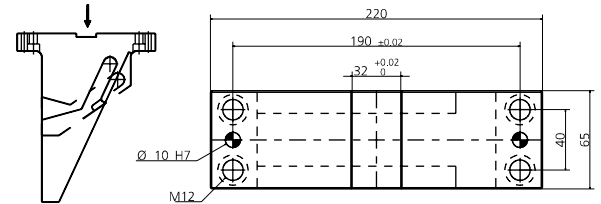
We suggest you to assembly by using a thrust mount key



POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

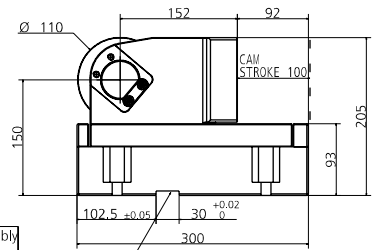
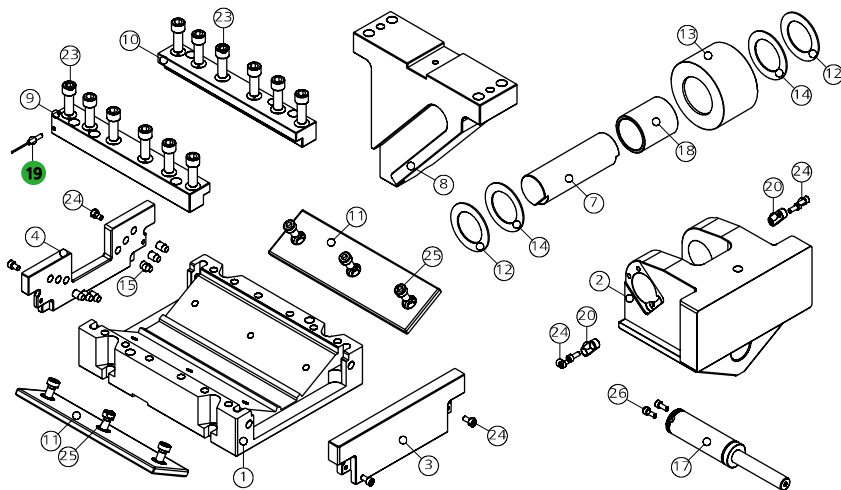
MODEL **0149.P5A0** INCLINATION **+10°** OPTION CODE **9003.0002**

# 0149.K5A0 - CAM ROLLER K5A0

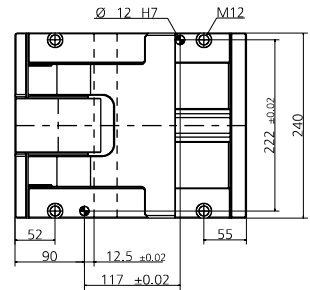
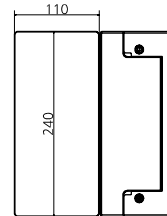
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE  
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION  
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION  
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

**500 daN**  
**938 daN**

SFORZO MAX TRANCIO **25800 daN**  
CUTTING MAX FORCE  
MAXIMALE SCHNITTKRAFT  
EFFORT MAXI DÉCOUPE



We suggest you to assembly by using a thrust mount key

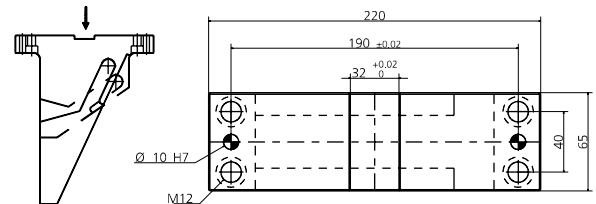


| POS. | CODE                          | DESCRIPTION  | Q.TY     |
|------|-------------------------------|--|----------|
| 001  | <b>8000.0049.05A0</b>         | CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE                          | 1        |
| 002  | <b>8007.0049.0500</b>         | SLITTA / SLIDER / LAGERKEIL                                    | 1        |
| 003  | <b>8088.0049.0500.001</b>     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 004  | <b>8088.0049.0500.002</b>     | PIASTRINA / PLATE / PLATTE                                     | 1        |
| 007  | <b>8005.1550.1417.500.001</b> | PERNO / PIN / STIFT  | 1        |
| 008  | <b>8090.0405.A080.000</b>     | CUNEO / WEDGE / DRUCKSTÜCK 0                                   | 1*OPTION |
| 008  | <b>8090.0405.A080.605</b>     | CUNEO / WEDGE / DRUCKSTÜCK +5                                  | 1*OPTION |
| 008  | <b>8090.0405.A080.610</b>     | CUNEO / WEDGE / DRUCKSTÜCK +10                                 | 1*OPTION |
| 008  | <b>8090.0405.A080.615</b>     | CUNEO / WEDGE / DRUCKSTÜCK +15                                 | 1*OPTION |
| 008  | <b>8090.0405.A080.705</b>     | CUNEO / WEDGE / DRUCKSTÜCK -5                                  | 1*OPTION |
| 008  | <b>8090.0405.A080.710</b>     | CUNEO / WEDGE / DRUCKSTÜCK -10                                 | 1*OPTION |
| 008  | <b>8090.0405.A080.715</b>     | CUNEO / WEDGE / DRUCKSTÜCK -15                                 | 1*OPTION |
| 008  | <b>8090.0405.A080.720</b>     | CUNEO / WEDGE / DRUCKSTÜCK -20                                 | 1*OPTION |
| 008  | <b>8090.0405.A080.725</b>     | CUNEO / WEDGE / DRUCKSTÜCK -25                                 | 1*OPTION |
| 008  | <b>8090.0405.A080.730</b>     | CUNEO / WEDGE / DRUCKSTÜCK -30                                 | 1*OPTION |
| 008  | <b>8090.0405.A080.735</b>     | CUNEO / WEDGE / DRUCKSTÜCK -35                                 | 1*OPTION |
| 008  | <b>8090.0405.A080.740</b>     | CUNEO / WEDGE / DRUCKSTÜCK -40                                 | 1*OPTION |
| 008  | <b>8090.0405.A080.745</b>     | CUNEO / WEDGE / DRUCKSTÜCK -45                                 | 1*OPTION |
| 008  | <b>8090.0405.A080.750</b>     | CUNEO / WEDGE / DRUCKSTÜCK -50                                 | 1*OPTION |
| 009  | <b>8086.2620.0390.300.001</b> | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 010  | <b>8086.2620.0390.300.002</b> | GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE  | 1        |
| 011  | <b>8012.2600.0750.100.001</b> | PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE              | 2        |
| 012  | <b>8006.0220.0780.505.001</b> | RONDELLA / WASHER / UNTERLEGSCHIBE                             | 2        |
| 013  | <b>8004.1100.0705.600.001</b> | ROTELLA / ROLLER / ROLLE                                       | 1        |
| 014  | <b>9033.5278.020</b>          | RALLA / THRUST WASHER / DRUCKSCHEIBE                           | 2        |
| 015  | <b>9020.10.15.E090</b>        | PUNTALINO / BUMP STOP / DRUCKSTÜCK                             | 6        |
| 017  | <b>9000.0100.0038.001</b>     | CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER     | 1        |
| 018  | <b>9035.5060.700.001</b>      | BOCCOLA / BUSH / BUCHSE  | 1        |
| 019  | <b>9003.0002</b>              | SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT | 1*OPTION |
| 020  | <b>8087.0400.0140.090.001</b> | CHIAVETTA / KEY / SCHLÜSSEL                                    | 2        |
| 023  | <b>9007.12.035.129.1.4762</b> | VITE / SCREW / SCHRAUBE M12X35                                 | 12       |
| 024  | <b>9007.06.012.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X12                                  | 8        |
| 025  | <b>9007.10.020.129.1.9327</b> | VITE / SCREW / SCHRAUBE M10X20                                 | 6        |
| 026  | <b>9007.06.025.129.1.4762</b> | VITE / SCREW / SCHRAUBE M6X25                                  | 2        |

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



**19** PATENT PENDING

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0149.K5A0** INCLINATION **+10°** OPTION CODE **9003.0002**



# PORTAPUNZONI E INSERTI

PUNCH HOLDERS AND INSERTS / STEMPELHALTER UND EINSÄTZE  
PORTE-POINÇONS ET INSERTS

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## PORTAPUNZONI E INSERTI

PUNCH HOLDERS AND INSERTS / STEMPELHALTER UND EINSÄTZE / PORTE-POINÇONS ET INSERTS

- IT** Portapunzoni adatti per punzoni ISO8020, Ballock Heavy duty o a collo di trombone, che permettono di guidare i punzoni e velocizzarne l'inserimento nello stampo. Esistono due versioni standard, quadrati e triangolari; una escludibile che permette di includere od escludere in opera i punzoni di uno stampo per mezzo di un cilindro pneumatico che ritrae il punzone quando il foro non è richiesto, ed una regolabile che consente la registrazione della posizione sotto pressa di tranciatrici e forature mediante l'ausilio di spessori rimovibili. Gli inserti di fissaggio sono invece sistemi che garantiscono la stabilità del punzone quando non c'è sufficiente spazio per poter utilizzare un portapunzone standard.
- EN** Punch holders suitable for ISO8020, Ballock Heavy duty or bottle neck punches, that allow to guide the punches and speed up their assembly into the die. There are two standard versions, square and triangular; a retractable one that allows to include or exclude the punches of a die thanks to a pneumatic cylinder that retracts the punch when the hole is not required, and an adjustable version that allows the setting of the punching and drilling position under press by removable shims. The fixing inserts are systems that guarantee the stability of the punch when there is not enough space to use a standard punch holder.
- DE** Stempelhalter geeignet für Stempel ISO8020, Ballock Heavy duty oder mit Posaunenhals. Die Stempelhalter ermöglichen, die Stempel zu führen und das Einsetzen in das Werkzeug zu beschleunigen. Es sind zwei Standard Modelle vorhanden, viereckige und dreieckige; ein rückziehbares, welches das Zu- oder Abschalten der Stempel eines Werkzeuges während die Arbeit ermöglicht, dank einem pneumatischen Zylinders, der den Stempel zurückzieht, wenn ein Loch nicht erforderlich ist. Und ein verstellbares, das die Justierung der Position beim Stanzen und Lochen unter Druck durch aufsteckbare Distanzring ermöglicht. Die Befestigungseinsätze sind Systeme die die Stabilität des Stempels garantieren wenn nicht genug Platz vorhanden ist, um einen Standard Stempelhalter einzusetzen.
- FR** Porte-poinçons adaptés aux poinçons ISO8020, Ballock Heavy duty ou à col de cygne, qui permettent de guider les poinçons et d'accélérer leur insertion dans l'outil de découpe. Il existe deux versions standard, carrée et triangulaire; une version pouvant être exclue qui permet d'inclure ou d'exclure pendant l'usinage les poinçons d'un outil de découpe au moyen d'un vérin pneumatique qui rétracte le poinçon lorsque le trou n'est pas nécessaire, et une version réglable qui permet de régler la position sous presse de découpage et de perçage des poinçons et des trous à l'aide de cales amovibles. Les inserts de fixation sont plutôt des systèmes qui garantissent la stabilité du poinçon lorsqu'il n'y a pas assez de place pour utiliser un porte-poinçon standard.



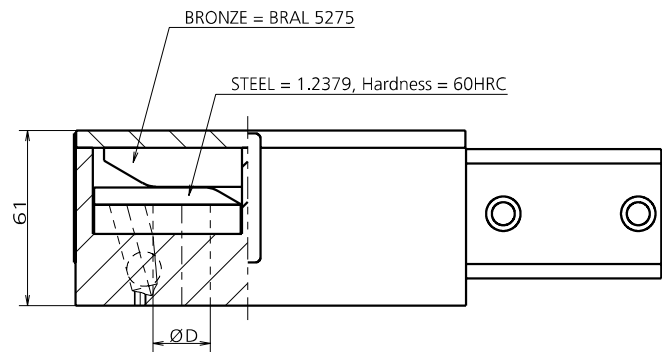
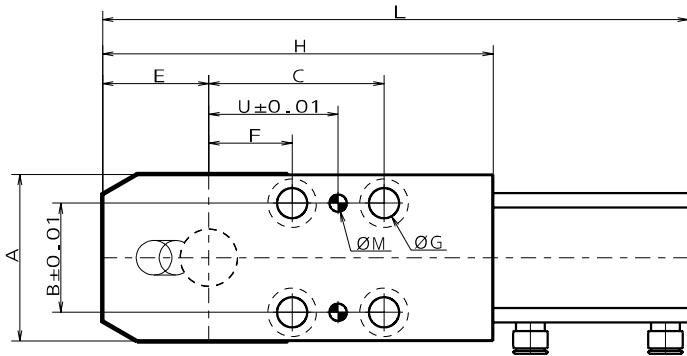
### PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE





# 1001 - PORTAPUNZONE ESCLUDIBILE PER BALLOCK HEAVY DUTY

RETRACTABLE RETAINER FOR BALLOCK HEAVY DUTY / AUSWECHSELBARE STEMPSELHALTEPLATTEN FÜR BALLOCK HEAVY DUTY  
 PORTE-POINÇON POUVANT ÊTRE EXCLU POUR BALLOCK HEAVY DUTY



| MODEL     | D  | L   | A  | B  | C   | E  | F  | H   | U  | G   | M |
|-----------|----|-----|----|----|-----|----|----|-----|----|-----|---|
| 1001.0010 | 10 | 176 | 46 | 30 | 53  | 32 | 21 | 114 | 37 | M8  | 6 |
| 1001.0013 | 13 | 187 | 50 | 30 | 57  | 34 | 25 | 120 | 41 | M10 | 6 |
| 1001.0016 | 16 | 187 | 50 | 30 | 57  | 34 | 25 | 120 | 41 | M10 | 6 |
| 1001.0020 | 20 | 204 | 58 | 38 | 61  | 37 | 29 | 136 | 45 | M10 | 6 |
| 1001.0025 | 25 | 204 | 58 | 38 | 61  | 37 | 29 | 136 | 45 | M10 | 6 |
| 1001.0032 | 32 | 257 | 80 | 56 | 100 | 44 | 38 | 174 | 60 | M12 | 8 |
| 1001.0040 | 40 | 257 | 80 | 56 | 100 | 44 | 38 | 174 | 60 | M12 | 8 |

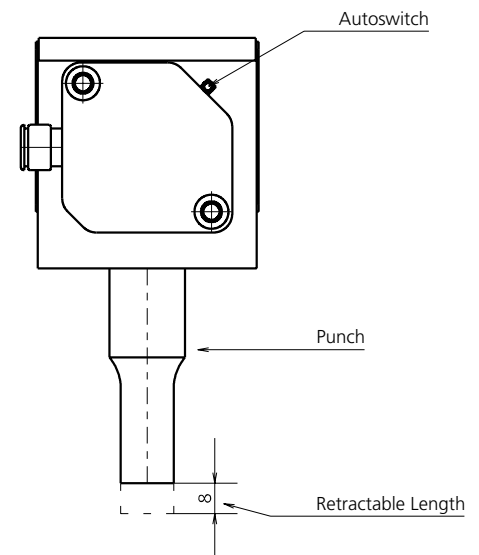
I portapunzoni escludibili Newstark vengono forniti comprensivi di viti, spine, cilindro ad aria con microsensore e relativi attacchi dell'aria. I tubi dell'aria Ø 6mm non sono inclusi nella fornitura.

Newstark retractable retainers include all necessary screws, dowels, air cylinder with microsensor and its fittings. Tubing Ø 6 mm are not included.

Zum Lieferumfang gehören alle notwendigen Schrauben und Stecker sowie ein mit Mikrosensor versehener Luftzylinder und die dazugehörigen Ventile. Die Luftschläuche Ø 6mm gehören nicht zum Lieferumfang.

Les porte-poinçons pouvant être exclus sont fournis avec des vis, des fiches, des vérins à air avec microcapteur et raccords d'air. Les tuyaux d'air Ø 6mm ne sont pas inclus dans la fourniture.

- **Sgancio Meccanico** / Mechanic Release / Mechanischauslösung / Déclenchement mécanique
- **Corsa del Punzone** / Punch Stroke / Stempelhub / Course du poinçon  
8 mm
- **Pressione d'aria consigliata** / Recommended air pressure / Empfohlener Druck für den Luftzylinder  
Pression d'air recommandée  
4,5-5,2 BAR (65-75 PSI)
- **Pressione Minima** / Minimum Pressure / Mindestdruck / Pression minimale  
3,15 BAR (45 PSI)
- **Pressione Massima** / Maximum Pressure / Maximaler Druck / Pression maximale  
10 BAR (145 PSI)



MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

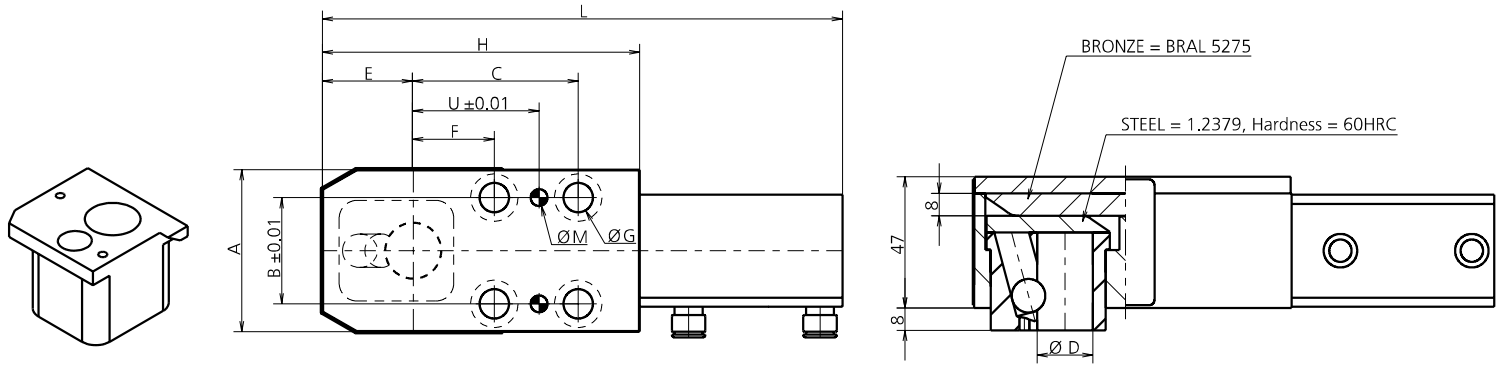
MODEL **1001** DIAMETER PUNCH **0010**



# 1002 - PORTAPUNZONE ESCLUDIBILE PER BALLOCK HEAVY DUTY

COMPACT

RETRACTABLE RETAINER FOR BALLOCK HEAVY DUTY / AUSWECHSELBARE STEMPELHALTEPLATTEN FÜR BALLOCK HEAVY DUTY  
PORTE-POINÇON POUVANT ÊTRE EXCLU POUR BALLOCK HEAVY DUTY



| MODEL     | D  | L   | A  | B  | C   | E    | F  | H     | U  | G   | M |
|-----------|----|-----|----|----|-----|------|----|-------|----|-----|---|
| 1002.0010 | 10 | 156 | 46 | 30 | -   | 28   | 21 | 93.5  | 37 | M8  | 6 |
| 1002.0013 | 13 | 167 | 50 | 30 | -   | 28   | 25 | 100   | 41 | M10 | 6 |
| 1002.0016 | 16 | 172 | 50 | 30 | -   | 31   | 25 | 104.5 | 41 | M10 | 6 |
| 1002.0020 | 20 | 186 | 58 | 38 | -   | 32.5 | 29 | 113.5 | 45 | M10 | 6 |
| 1002.0025 | 25 | 201 | 58 | 38 | -   | 35   | 29 | 123.5 | 45 | M10 | 6 |
| 1002.0032 | 32 | 234 | 80 | 56 | 100 | 38   | 38 | 152   | 60 | M12 | 8 |
| 1002.0040 | 40 | 243 | 80 | 56 | 100 | 42   | 38 | 156   | 60 | M12 | 8 |

I portapunzoni escludibili Newstark vengono forniti comprensivi di viti, spine, cilindro ad aria con microsensore e relativi attacchi dell'aria. I tubi dell'aria Ø 6mm non sono inclusi nella fornitura.

Newstark retractable retainers include all necessary screws, dowels, air cylinder with microsensor and its fittings. Tubing Ø 6 mm are not included.

Zum Lieferumfang gehören alle notwendigen Schrauben und Stecker sowie ein mit Mikrosensor versehener Luftzylinder und die dazugehörigen Ventile. Die Luftschläuche Ø 6mm gehören nicht zum Lieferumfang.

Les porte-poinçons pouvant être exclus sont fournis avec des vis, des fiches, des vérins à air avec microcapteur et raccords d'air. Les tuyaux d'air Ø 6mm ne sont pas inclus dans la fourniture.

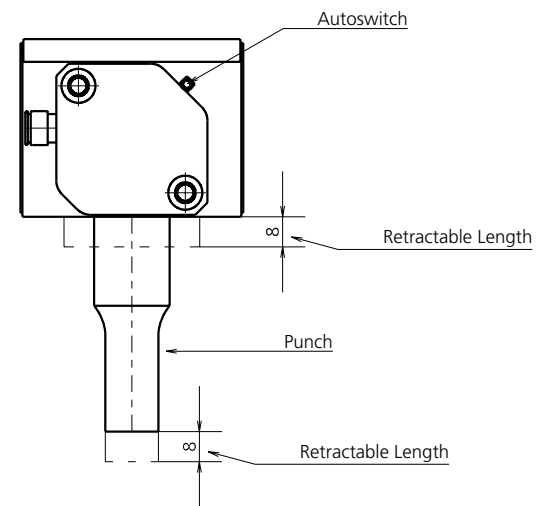
- **Sgancio Meccanico** / Mechanic Release / Mechanischauslösung / Déclenchement mécanique
- **Corsa del Punzone** / Punch Stroke / Stempelhub / Course du poinçon  
8 mm
- **Pressione d'aria consigliata** / Recommended air pressure / Empfohlener Druck für den Luftzylinder  
Pression d'air recommandée  
4,5-5,2 BAR (65-75 PSI)
- **Pressione Minima** / Minimum Pressure / Mindestdruck / Pression minimale  
3,15 BAR (45 PSI)
- **Pressione Massima** / Maximum Pressure / Maximaler Druck / Pression maximale  
10 BAR (145 PSI)

È possibile intercambiare il blochetto portapunzone con il modello 8021.0003, che permette di avvicinare il punzone alla testa del dispositivo di 12 mm.

Possibility to exchange the punch holder with model 8021.0003, which allows to move the punch 12 mm closer to the front of the retainer.

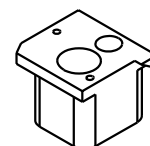
Durch das Austauschen der Stempelhalteplatte in die 8021.0003 kann der Lochstempel dem Fuß der Vorrichtung um 12 mm näher gebracht werden.

Il est possible d'échanger le bloc porte-poinçon avec le modèle 8021.0003, qui permet au poinçon de se rapprocher de la tête du dispositif de 12 mm.



| CODE           | DESCRIPTION                                 | Q.TY     |
|----------------|---|----------|
| 8021.0003.0010 | PORTA PUNZONE / PUNCH HOLDER / TRÄGERPLATTE | 1*OPTION |
| 8021.0003.0013 | PORTA PUNZONE / PUNCH HOLDER / TRÄGERPLATTE | 1*OPTION |
| 8021.0003.0016 | PORTA PUNZONE / PUNCH HOLDER / TRÄGERPLATTE | 1*OPTION |
| 8021.0003.0020 | PORTA PUNZONE / PUNCH HOLDER / TRÄGERPLATTE | 1*OPTION |
| 8021.0003.0025 | PORTA PUNZONE / PUNCH HOLDER / TRÄGERPLATTE | 1*OPTION |
| 8021.0003.0032 | PORTA PUNZONE / PUNCH HOLDER / TRÄGERPLATTE | 1*OPTION |
| 8021.0003.0040 | PORTA PUNZONE / PUNCH HOLDER / TRÄGERPLATTE | 1*OPTION |

8021.0003... PORTA PUNZONE / PUNCH HOLDER / TRÄGERPLATTE



MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL 1002

DIAMETER PUNCH 0010

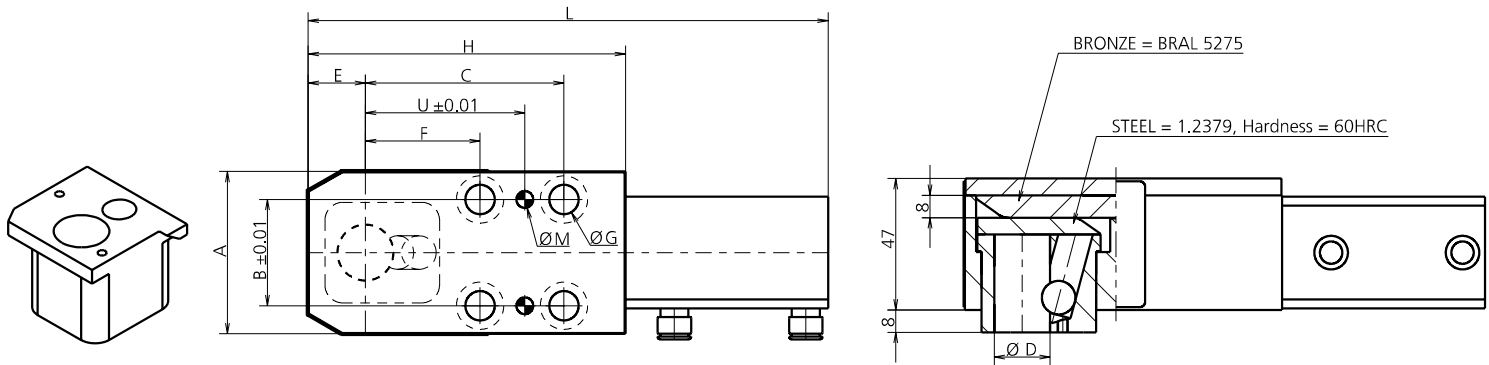
OPTION CODE 8021.0003.0010



# 1003 - PORTAPUNZONE ESCLUDIBILE PER BALLOCK HEAVY DUTY

COMPACT

RETRACTABLE RETAINER FOR BALLOCK HEAVY DUTY / AUSWECHSELBARE STEMPELHALTEPLATTEN FÜR BALLOCK HEAVY DUTY  
PORTE-POINÇON POUVANT ÊTRE EXCLU POUR BALLOCK HEAVY DUTY



| MODEL     | D  | L   | A  | B  | C   | E    | F  | H     | U  | G   | M |
|-----------|----|-----|----|----|-----|------|----|-------|----|-----|---|
| 1003.0010 | 10 | 156 | 46 | 30 | -   | 16   | 33 | 93.5  | 49 | M8  | 6 |
| 1003.0013 | 13 | 167 | 50 | 30 | -   | 16   | 37 | 100   | 53 | M10 | 6 |
| 1003.0016 | 16 | 172 | 50 | 30 | -   | 19   | 37 | 104.5 | 53 | M10 | 6 |
| 1003.0020 | 20 | 186 | 58 | 38 | -   | 20.5 | 41 | 113.5 | 57 | M10 | 6 |
| 1003.0025 | 25 | 201 | 58 | 38 | -   | 23   | 41 | 123.5 | 57 | M10 | 6 |
| 1003.0032 | 32 | 234 | 80 | 56 | 112 | 26   | 50 | 152   | 72 | M12 | 8 |
| 1003.0040 | 40 | 243 | 80 | 56 | 112 | 30   | 50 | 156   | 72 | M12 | 8 |

I portapunzoni escludibili Newstark vengono forniti comprensivi di viti, spine, cilindro ad aria con microsensore e relativi attacchi dell'aria. I tubi dell'aria Ø 6mm non sono inclusi nella fornitura.

Newstark retractable retainers include all necessary screws, dowels, air cylinder with microsensor and its fittings. Tubing Ø 6 mm are not included.

Zum Lieferumfang gehören alle notwendigen Schrauben und Stecker sowie ein mit Mikrosensor versehener Luftzylinder und die dazugehörigen Ventile. Die Luftschläuche Ø 6mm gehören nicht zum Lieferumfang.

Les porte-poinçons pouvant être exclus sont fournis avec des vis, des fiches, des vérins à air avec microcapteur et raccords d'air. Les tuyaux d'air Ø 6mm ne sont pas inclus dans la fourniture.

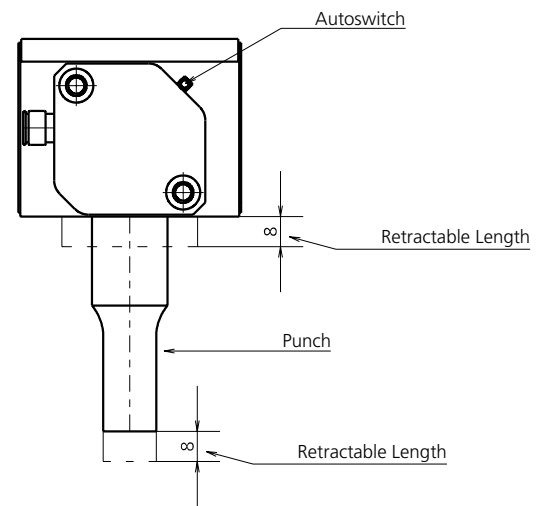
- **Sgancio Meccanico** / Mechanic Release / Mechanischauslösung / Déclenchement mécanique
- **Corsa del Punzone** / Punch Stroke / Stempelhub / Course du poinçon  
8 mm
- **Pressione d'aria consigliata** / Recommended air pressure / Empfohlener Druck für den Luftzylinder  
Pression d'air recommandée  
4,5-5,2 BAR (65-75 PSI)
- **Pressione Minima** / Minimum Pressure / Mindestdruck / Pression minimale  
3,15 BAR (45 PSI)
- **Pressione Massima** / Maximum Pressure / Maximaler Druck / Pression maximale  
10 BAR (145 PSI)

È possibile intercambiare il blochetto portapunzone con il modello 8021.0002, che permette di allontanare il punzone alla testa del dispositivo di 12 mm.

Possibility to exchange the punch holder with model 8021.0003, which allows the punch to be moved away from the retainer head by 12 mm.

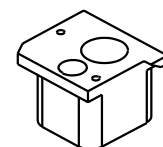
Durch das Austauschen der Stempelhalteplatte in die 8021.0003 kann der Lochstempel dem Fuß der Vorrichtung um 12 mm beseitigt gebracht werden.

Il est possible d'échanger le bloc porte-poinçon avec le modèle 8021.0003, qui permet d'éloigner le poinçon de la tête de retenue de 12 mm.



| CODE           | DESCRIPTION                                 | Q.TY     |
|----------------|---|----------|
| 8021.0002.0010 | PORTA PUNZONE / PUNCH HOLDER / TRÄGERPLATTE | 1*OPTION |
| 8021.0002.0013 | PORTA PUNZONE / PUNCH HOLDER / TRÄGERPLATTE | 1*OPTION |
| 8021.0002.0016 | PORTA PUNZONE / PUNCH HOLDER / TRÄGERPLATTE | 1*OPTION |
| 8021.0002.0020 | PORTA PUNZONE / PUNCH HOLDER / TRÄGERPLATTE | 1*OPTION |
| 8021.0002.0025 | PORTA PUNZONE / PUNCH HOLDER / TRÄGERPLATTE | 1*OPTION |
| 8021.0002.0032 | PORTA PUNZONE / PUNCH HOLDER / TRÄGERPLATTE | 1*OPTION |
| 8021.0002.0040 | PORTA PUNZONE / PUNCH HOLDER / TRÄGERPLATTE | 1*OPTION |

8021.0002... PORTA PUNZONE / PUNCH HOLDER / TRÄGERPLATTE



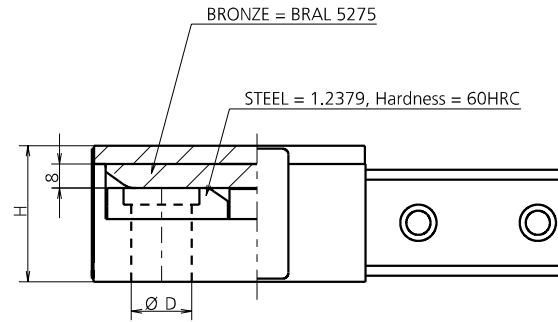
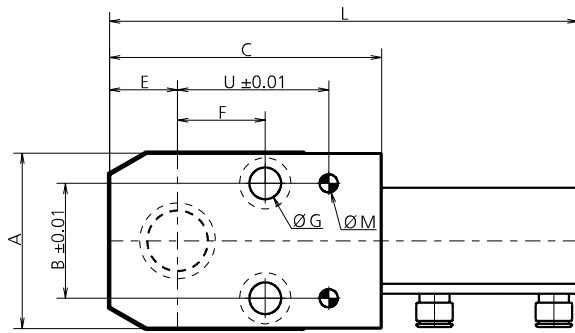
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1003** DIAMETER PUNCH **0010** OPTION CODE **8021.0002.0010**



# 1004 - PORTAPUNZONE ESCLUDIBILE PER PUNZONI A TESTA CILINDRICA TONDI

RETRACTABLE RETAINER FOR HEADED ROUND PUNCHES / AUSWECHSELBARE STEMPHELHALTEPLATTEN FÜR LOCHSTEMPEL ISO8020 OHNE VERDREHSCHUTZ  
PORTE-POINÇON POUVANT ÊTRE EXCLU POUR LES POINÇONS À TÊTE CYLINDRIQUE RONDS



| MODEL     | D  | L   | A  | B  | C   | E  | F  | H  | U  | G   | M   |
|-----------|----|-----|----|----|-----|----|----|----|----|-----|-----|
| 1004.0010 | 10 | 128 | 46 | 30 | 73  | 18 | 25 | 45 | 41 | M8  | 5.8 |
| 1004.0013 | 13 | 128 | 49 | 30 | 73  | 18 | 25 | 45 | 41 | M10 | 5.8 |
| 1004.0016 | 16 | 128 | 49 | 30 | 73  | 18 | 25 | 45 | 41 | M10 | 5.8 |
| 1004.0020 | 20 | 155 | 58 | 38 | 90  | 23 | 29 | 45 | 45 | M10 | 5.8 |
| 1004.0025 | 25 | 155 | 58 | 38 | 90  | 23 | 29 | 45 | 45 | M10 | 5.8 |
| 1004.0032 | 32 | 208 | 80 | 56 | 125 | 33 | 38 | 55 | 60 | M12 | 7.8 |
| 1004.0040 | 40 | 208 | 80 | 56 | 125 | 33 | 38 | 55 | 60 | M12 | 7.8 |

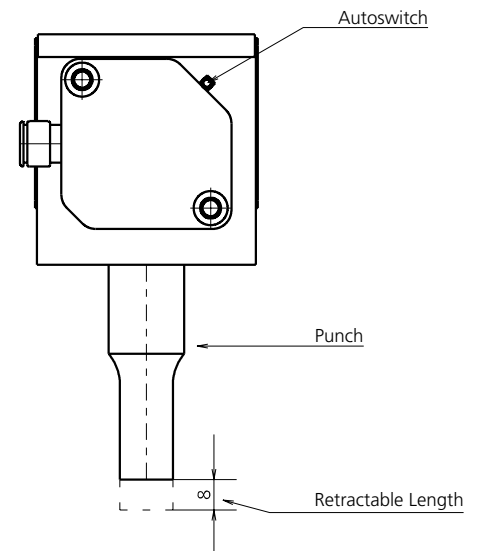
I portapunzoni escludibili Newstark vengono forniti comprensivi di viti, spine, cilindro ad aria con microsensore e relativi attacchi dell'aria. I tubi dell'aria Ø 6mm non sono inclusi nella fornitura.

Newstark retractable retainers include all necessary screws, dowels, air cylinder with microsensor and its fittings. Tubing Ø 6mm are not included.

Zum Lieferumfang gehören alle notwendigen Schrauben und Stecker sowie ein mit Mikrosensor versehener Luftzylinder und die dazugehörigen Ventile. Die Luftschläuche Ø 6mm gehören nicht zum Lieferumfang.

Les porte-poinçons pouvant être exclus sont fournis avec des vis, des fiches, des vérins à air avec microcapteur et raccords d'air. Les tuyaux d'air Ø 6mm ne sont pas inclus dans la fourniture.

- **Corsa del Punzone** / Punch Stroke / Stempelhub / Course du poinçon  
**8 mm**
- **Pressione d'aria consigliata** / Recommended air pressure / Empfohlener Druck für den Luftzylinder  
Pression d'air recommandée  
**4,5-5,2 BAR (65-75 PSI)**
- **Pressione Minima** / Minimum Pressure / Mindestdruck / Pression minimale  
**3,15 BAR (45 PSI)**
- **Pressione Massima** / Maximum Pressure / Maximaler Druck / Pression maximale  
**10 BAR (145 PSI)**

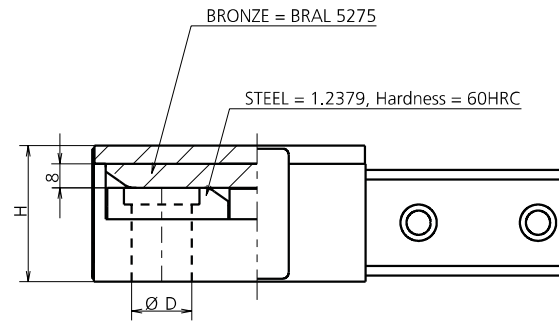
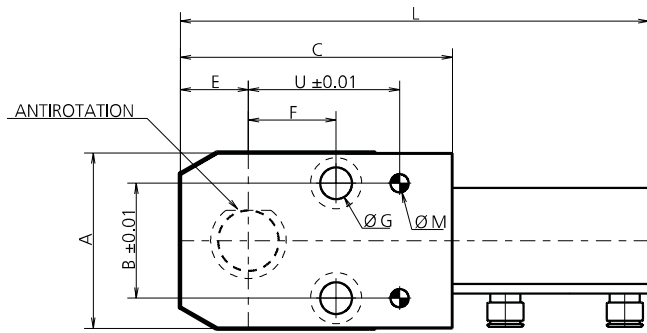


MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1004** DIAMETER PUNCH **0010**

# 1005 - PORTAPUNZONE ESCLUDIBILE PER PUNZONI A TESTA CILINDRICA SAGOMATI

RETRACTABLE RETAINER FOR HEADED SHAPED PUNCHES / AUSWECHSELBARE STEMPSELHALTEPLATTEN FÜR LOCHSTEMPEL ISO8020 MIT VERDREHSCHUTZ  
 PORTE-POINÇON POUVANT ÊTRE EXCLU POUR LES POINÇONS À TÊTE CYLINDRIQUE FAÇONNÉS



| MODEL     | D  | L   | A  | B  | C   | E  | F  | H  | U  | G   | M   |
|-----------|----|-----|----|----|-----|----|----|----|----|-----|-----|
| 1005.0010 | 10 | 128 | 46 | 30 | 73  | 18 | 25 | 45 | 41 | M8  | 5.8 |
| 1005.0013 | 13 | 128 | 49 | 30 | 73  | 18 | 25 | 45 | 41 | M10 | 5.8 |
| 1005.0016 | 16 | 128 | 49 | 30 | 73  | 18 | 25 | 45 | 41 | M10 | 5.8 |
| 1005.0020 | 20 | 155 | 58 | 38 | 90  | 23 | 29 | 45 | 45 | M10 | 5.8 |
| 1005.0025 | 25 | 155 | 58 | 38 | 90  | 23 | 29 | 45 | 45 | M10 | 5.8 |
| 1005.0032 | 32 | 208 | 80 | 56 | 125 | 33 | 38 | 55 | 60 | M12 | 7.8 |
| 1005.0040 | 40 | 208 | 80 | 56 | 125 | 33 | 38 | 55 | 60 | M12 | 7.8 |

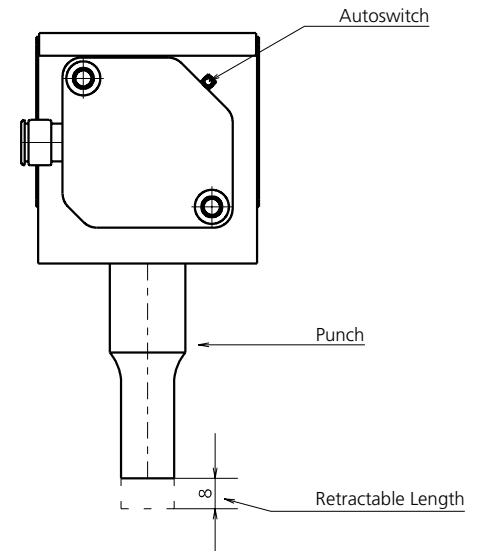
I portapunzoni escludibili Newstark vengono forniti comprensivi di viti, spine, cilindro ad aria con microsensore e relativi attacchi dell'aria. I tubi dell'aria Ø 6mm non sono inclusi nella fornitura.

Newstark retractable retainers include all necessary screws, dowels, air cylinder with microsensor and its fittings. Tubing Ø 6mm are not included.

Zum Lieferumfang gehören alle notwendigen Schrauben und Stecker sowie ein mit Mikrosensor versehener Luftzylinder und die dazugehörigen Ventile. Die Luftschläuche Ø 6mm gehören nicht zum Lieferumfang.

Les porte-poinçons pouvant être exclus sont fournis avec des vis, des fiches, des vérins à air avec microcapteur et raccords d'air. Les tuyaux d'air Ø 6mm ne sont pas inclus dans la fourniture.

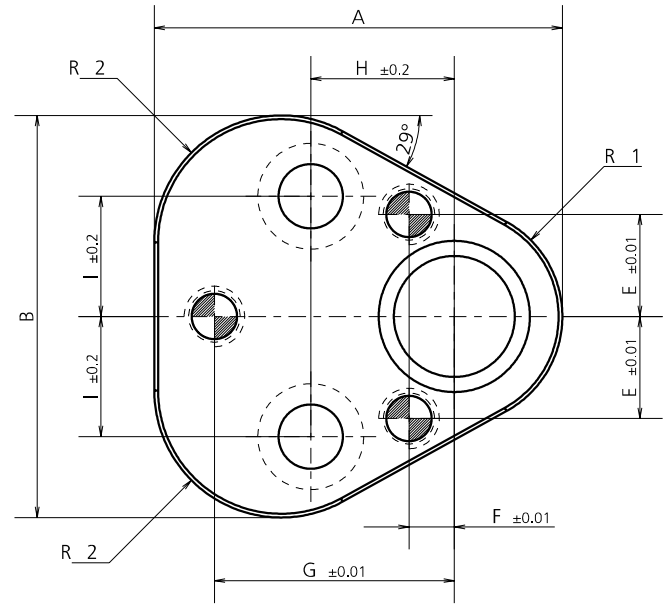
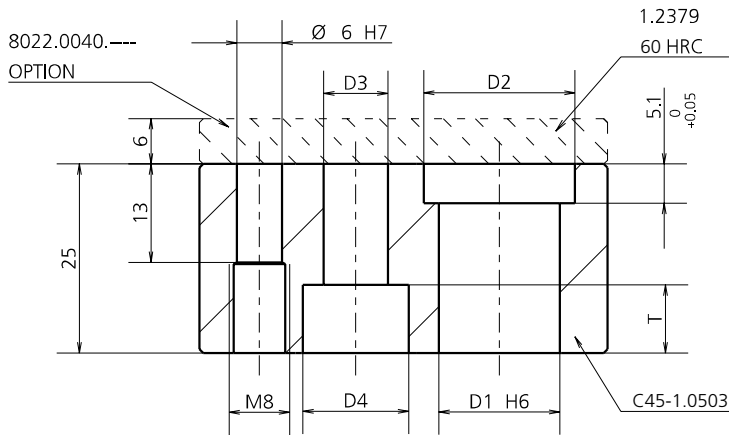
- **Corsa del Punzone** / Punch Stroke / Stempelhub / Course du poinçon  
**8 mm**
- **Pressione d'aria consigliata** / Recommended air pressure / Empfohlener Druck für den Luftzylinder  
Pression d'air recommandée  
**4,5-5,2 BAR (65-75 PSI)**
- **Pressione Minima** / Minimum Pressure / Mindestdruck / Pression minimale  
**3,15 BAR (45 PSI)**
- **Pressione Massima** / Maximum Pressure / Maximaler Druck / Pression maximale  
**10 BAR (145 PSI)**





# 1041 - PORTAPUNZONE TRIANGOLARE PER TONDO ISO8020

TRIANGULAR PUNCH HOLDER FOR ROUNDED ISO8020 / DREIECKIGER LOCHSTEMPELTRÄGER FÜR RUNDUNG ISO8020  
PORTE-POINÇON TRIANGULAIRE POUR ROND ISO8020

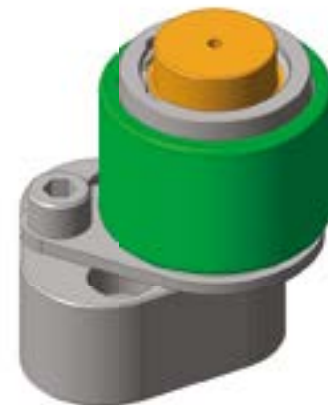


Le viti e le spine di fissaggio sono comprese nella fornitura. / Fixing screws and pins are included in the delivery. / Befestigungsschrauben und stopfen sind im lieferumfang enthalten.  
/ Les vis de fixation et les bouchons sont inclus dans la livraison.

| MODEL     | A    | B    | D1 | D2 | D3   | D4   | E    | F   | G      | H    | I    | T    | R1   | R2   |
|-----------|------|------|----|----|------|------|------|-----|--------|------|------|------|------|------|
| 1041.0006 | 35   | 37.5 | 6  | 11 | 6.5  | 11.5 | 8    | 9   | 23     | 19   | 11.1 | 7    | 8    | 8    |
| 1041.0008 | 44.5 | 43.7 | 8  | 13 | 9    | 15   | 9    | 7.5 | 26.925 | 19   | 11.1 | 9    | 9.5  | 12   |
| 1041.0010 | 44.5 | 43.7 | 10 | 14 | 9    | 15   | 9    | 7.5 | 26.925 | 19   | 11.1 | 9    | 9.5  | 12   |
| 1041.0013 | 50.8 | 50   | 13 | 17 | 9    | 15   | 12   | 6.5 | 29.97  | 19   | 14.3 | 9    | 12.7 | 15.2 |
| 1041.0016 | 54   | 53.2 | 16 | 20 | 9    | 15   | 13.5 | 6   | 31.75  | 19   | 15.9 | 9    | 14.3 | 16.8 |
| 1041.0020 | 60.3 | 59.5 | 20 | 24 | 11   | 18   | 16.5 | 5   | 33.53  | 19   | 17.5 | 11   | 17.5 | 20   |
| 1041.0025 | 69.9 | 69.1 | 25 | 29 | 13.5 | 20   | 22   | 7   | 40.64  | 23.8 | 19.8 | 13.5 | 22.2 | 24.7 |
| 1041.0032 | 69.9 | 69.1 | 32 | 36 | 13.5 | 20   | 22   | 7   | 40.64  | 23.8 | 19.8 | 13.5 | 22.2 | 24.7 |

| CODE           | DESCRIPTION                   | Q.TY     |
|----------------|-------------------------------|----------|
| 8022.0040.0006 | PIASTRINA / PLATE/ PLATTE Ø6  | 1*OPTION |
| 8022.0040.0810 | PIASTRINA / PLATE/ PLATTE Ø8  | 1*OPTION |
| 8022.0040.0810 | PIASTRINA / PLATE/ PLATTE Ø10 | 1*OPTION |
| 8022.0040.0013 | PIASTRINA / PLATE/ PLATTE Ø13 | 1*OPTION |
| 8022.0040.0016 | PIASTRINA / PLATE/ PLATTE Ø16 | 1*OPTION |
| 8022.0040.0020 | PIASTRINA / PLATE/ PLATTE Ø20 | 1*OPTION |
| 8022.0040.2532 | PIASTRINA / PLATE/ PLATTE Ø25 | 1*OPTION |
| 8022.0040.2532 | PIASTRINA / PLATE/ PLATTE Ø32 | 1*OPTION |

POSSIBILI APPLICAZIONI / POSSIBLE APPLICATIONS / MÖGLICHE ANWENDUNGEN  
APPLICATIONS POSSIBLES



POSSIBILITÀ DI UTILIZZO CON STARK STRIP / POSSIBILITY TO USE WITH STARK STRIP  
ANWENDUNGSMÖGLICHKEITEN MIT STARK STRIP / POSSIBILITE D'UTILISATION AVEC STARK STRIP

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1041**

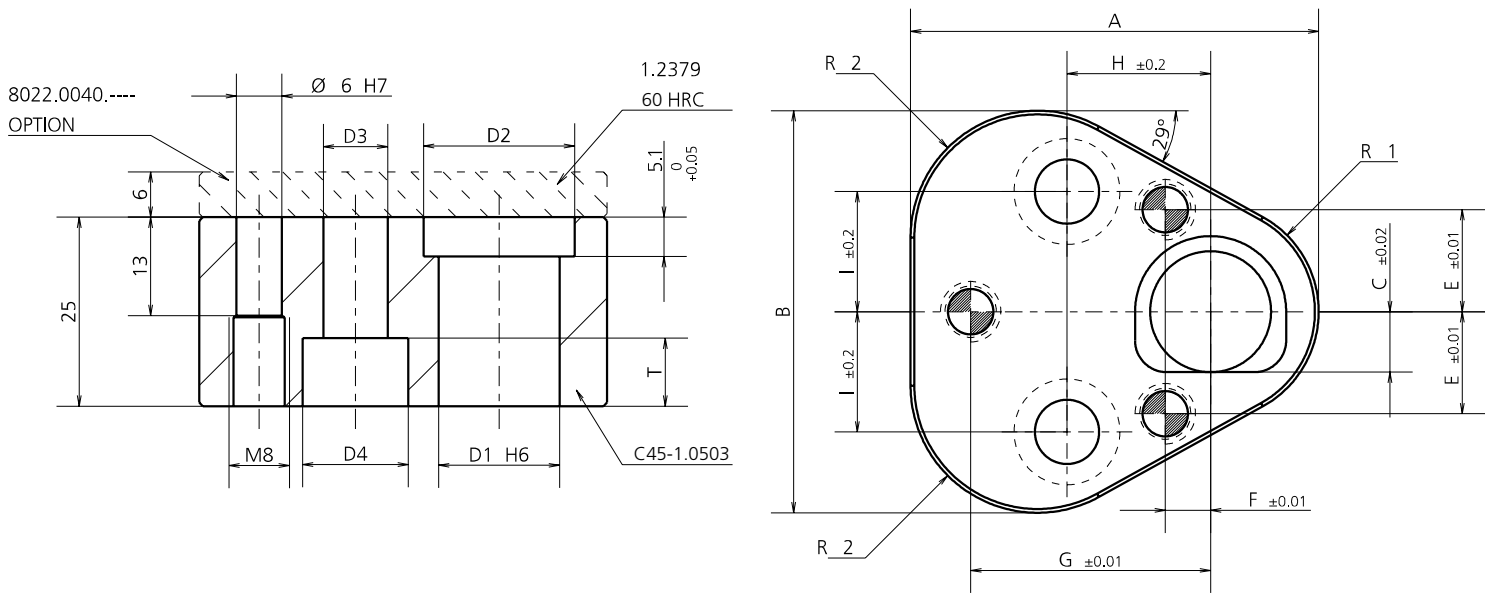
DIAMETER PUNCH **0010**

OPTION CODE **8022.0040.0810**



# 1042 - PORTAPUNZONE TRIANGOLARE CON ANTIROTAZIONE PER ISO8020

TRIANGULAR PUNCH HOLDER WITH ANTI-ROTATION SYSTEM FOR ISO8020 / DREIECKIGER LOCHSTEMPELTRÄGER MIT VERDREHSICHERUNG ISO8020  
PORTE-POINÇON TRIANGULAIRE AVEC ANTI-ROTATION POUR ISO8020



Le viti e le spine di fissaggio sono comprese nella fornitura. / Fixing screws and pins are included in the delivery. / Befestigungsschrauben und stopfen sind im lieferumfang enthalten.  
/ Les vis de fixation et les bouchons sont inclus dans la livraison.

| MODEL     | A    | B    | C    | D1 | D2 | D3   | D4   | E    | F   | G      | H    | I    | T    | R1   | R2   |
|-----------|------|------|------|----|----|------|------|------|-----|--------|------|------|------|------|------|
| 1042.0006 | 35   | 37.5 | 3    | 6  | 11 | 6.5  | 11.5 | 8    | 9   | 23     | 19   | 11.1 | 7    | 8    | 8    |
| 1042.0008 | 44.5 | 43.7 | 4    | 8  | 13 | 9    | 15   | 9    | 7.5 | 26.925 | 19   | 11.1 | 9    | 9.5  | 12   |
| 1042.0010 | 44.5 | 43.7 | 5    | 10 | 14 | 9    | 15   | 9    | 7.5 | 26.925 | 19   | 11.1 | 9    | 9.5  | 12   |
| 1042.0013 | 50.8 | 50   | 6.5  | 13 | 17 | 9    | 15   | 12   | 6.5 | 29.97  | 19   | 14.3 | 9    | 12.7 | 15.2 |
| 1042.0016 | 54   | 53.2 | 8    | 16 | 20 | 9    | 15   | 13.5 | 6   | 31.75  | 19   | 15.9 | 9    | 14.3 | 16.8 |
| 1042.0020 | 60.3 | 59.5 | 10   | 20 | 24 | 11   | 18   | 16.5 | 5   | 33.53  | 19   | 17.5 | 11   | 17.5 | 20   |
| 1042.0025 | 69.9 | 69.1 | 12.5 | 25 | 29 | 13.5 | 20   | 22   | 7   | 40.64  | 23.8 | 19.8 | 13.5 | 22.2 | 24.7 |
| 1042.0032 | 69.9 | 69.1 | 16   | 32 | 36 | 13.5 | 20   | 22   | 7   | 40.64  | 23.8 | 19.8 | 13.5 | 22.2 | 24.7 |

| CODE           | DESCRIPTION                    | Q.TY     |
|----------------|--------------------------------|----------|
| 8022.0040.0006 | PIASTRINA / PLATE / PLATTE Ø6  | 1*OPTION |
| 8022.0040.0810 | PIASTRINA / PLATE / PLATTE Ø8  | 1*OPTION |
| 8022.0040.0810 | PIASTRINA / PLATE / PLATTE Ø10 | 1*OPTION |
| 8022.0040.0013 | PIASTRINA / PLATE / PLATTE Ø13 | 1*OPTION |
| 8022.0040.0016 | PIASTRINA / PLATE / PLATTE Ø16 | 1*OPTION |
| 8022.0040.0020 | PIASTRINA / PLATE / PLATTE Ø20 | 1*OPTION |
| 8022.0040.2532 | PIASTRINA / PLATE / PLATTE Ø25 | 1*OPTION |
| 8022.0040.2532 | PIASTRINA / PLATE / PLATTE Ø32 | 1*OPTION |

POSSIBILI APPLICAZIONI / POSSIBLE APPLICATIONS / MÖGLICHE ANWENDUNGEN  
APPLICATIONS POSSIBLES



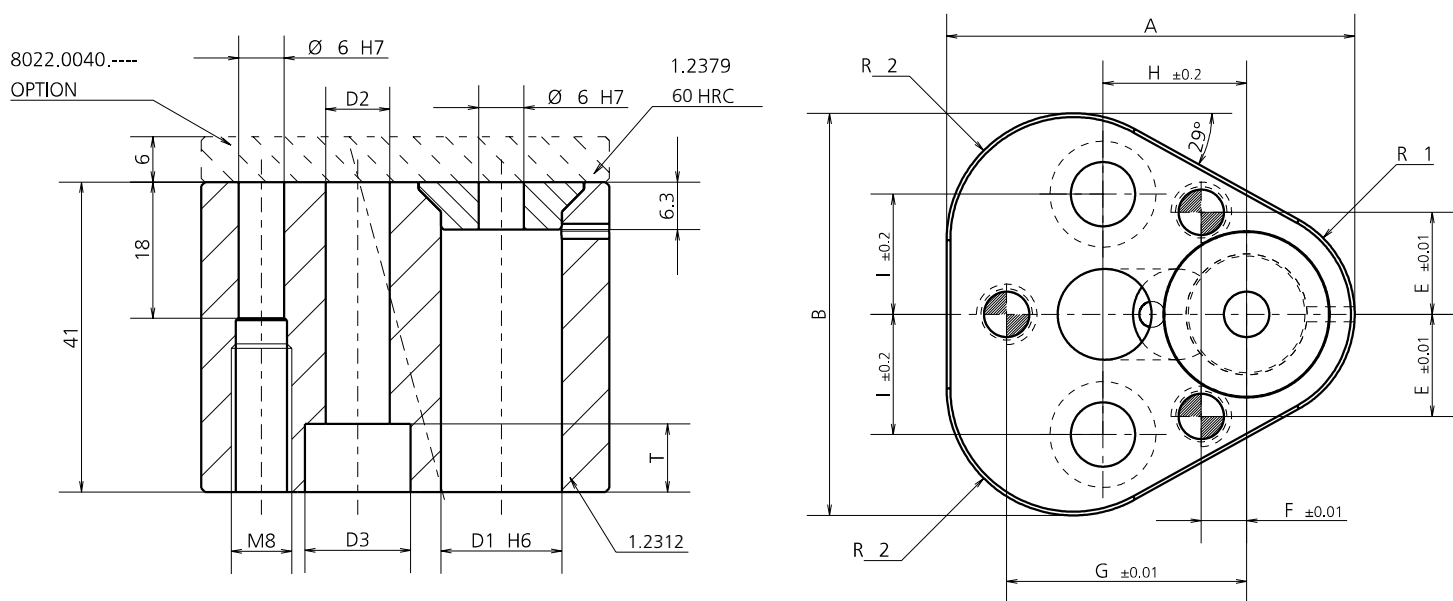
POSSIBILITÀ DI UTILIZZO CON STARK STRIP / POSSIBILITY TO USE WITH STARK STRIP  
ANWENDUNGSMÖGLICHKEITEN MIT STARK STRIP / POSSIBILITÉ D'UTILISATION AVEC STARK STRIP

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1042** DIAMETER PUNCH **0010** OPTION CODE **8022.0040.0810**

# 1044 - PORTAPUNZONE TRIANGOLARE PER BALLOCK HEAVY DUTY

TRIANGULAR PUNCH HOLDER FOR BALLOCK HEAVY DUTY / DREIECKIGER LOCHSTEMPELTRÄGER FÜR BALLOCK HEAVY DUTY  
 PORTE-POINÇON TRIANGULAIRE POUR BALLOCK HEAVY DUTY

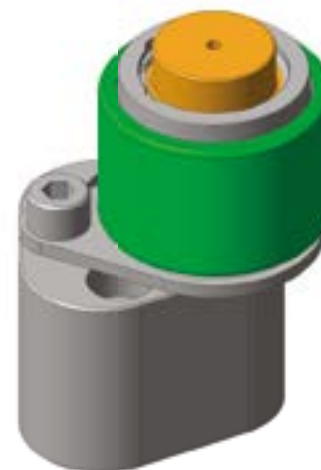


Le viti e le spine di fissaggio sono comprese nella fornitura. / Fixing screws and pins are included in the delivery. / Befestigungsschrauben und stopfen sind im lieferumfang enthalten.  
 / Les vis de fixation et les bouchons sont inclus dans la livraison.

| MODEL     | A    | B    | D1 | D2   | D3 | E    | F   | G      | H    | I    | T    | R1   | R2   |
|-----------|------|------|----|------|----|------|-----|--------|------|------|------|------|------|
| 1044.0010 | 44.5 | 43.7 | 10 | 9    | 15 | 9    | 7.5 | 26.925 | 19   | 11.1 | 9    | 9.5  | 12   |
| 1044.0013 | 50.8 | 50   | 13 | 9    | 15 | 12   | 6.5 | 29.97  | 19   | 14.3 | 9    | 12.7 | 15.2 |
| 1044.0016 | 54   | 53.2 | 16 | 9    | 15 | 13.5 | 6   | 31.75  | 19   | 15.9 | 9    | 14.3 | 16.8 |
| 1044.0020 | 60.3 | 59.5 | 20 | 11   | 18 | 16.5 | 5   | 33.53  | 19   | 17.5 | 11   | 17.5 | 20   |
| 1044.0025 | 69.9 | 69.1 | 25 | 13.5 | 20 | 22   | 7   | 40.64  | 23.8 | 19.8 | 13.5 | 22.2 | 24.7 |
| 1044.0032 | 69.9 | 69.1 | 32 | 13.5 | 20 | 22   | 7   | 40.64  | 23.8 | 19.8 | 13.5 | 22.2 | 24.7 |
| 1044.0040 | 77.4 | 76.6 | 40 | 13.5 | 20 | 26   | 10  | 43.993 | 27   | 24   | 13.5 | 26   | 28.5 |

| CODE           | DESCRIPTION                   | Q.TY     |
|----------------|-------------------------------|----------|
| 8022.0040.0810 | PIASTRINA / PLATE/ PLATTE Ø10 | 1*OPTION |
| 8022.0040.0013 | PIASTRINA / PLATE/ PLATTE Ø13 | 1*OPTION |
| 8022.0040.0016 | PIASTRINA / PLATE/ PLATTE Ø16 | 1*OPTION |
| 8022.0040.0020 | PIASTRINA / PLATE/ PLATTE Ø20 | 1*OPTION |
| 8022.0040.2532 | PIASTRINA / PLATE/ PLATTE Ø25 | 1*OPTION |
| 8022.0040.2532 | PIASTRINA / PLATE/ PLATTE Ø32 | 1*OPTION |
| 8022.0040.3840 | PIASTRINA / PLATE/ PLATTE Ø40 | 1*OPTION |

POSSIBILI APPLICAZIONI / POSSIBLE APPLICATIONS / MÖGLICHE ANWENDUNGEN  
 APPLICATIONS POSSIBLES



POSSIBILITÀ DI UTILIZZO CON STARK STRIP / POSSIBILITY TO USE WITH STARK STRIP  
 ANWENDUNGSMÖGLICHKEITEN MIT STARK STRIP / POSSIBILITÉ D'UTILISATION AVEC STARK STRIP

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL 1044

DIAMETER PUNCH 0010

OPTION CODE 8022.0040.0810

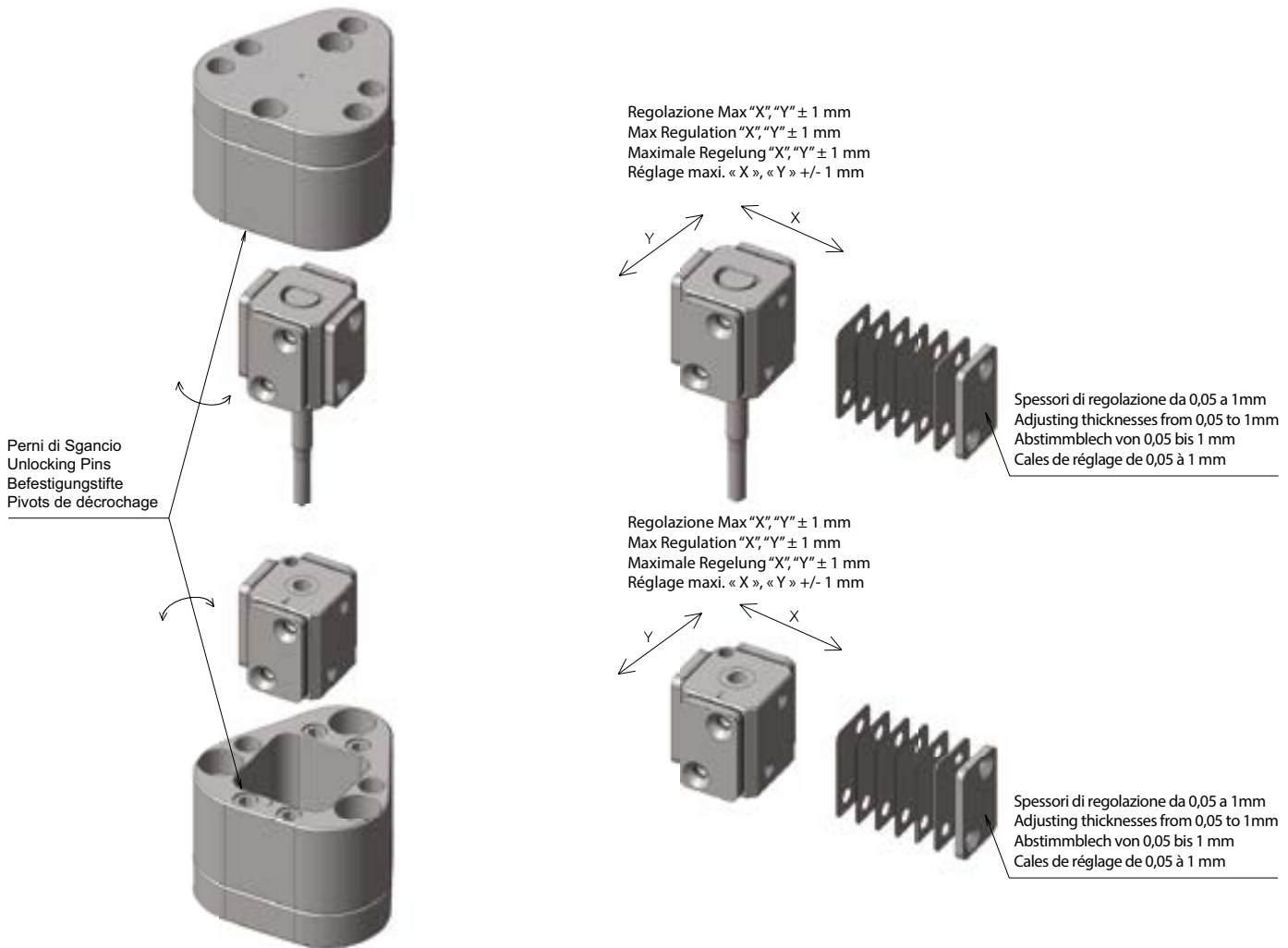


# PORTAPUNZONI TRIANGOLARI

# PORTAPUNZONI REGOLABILI

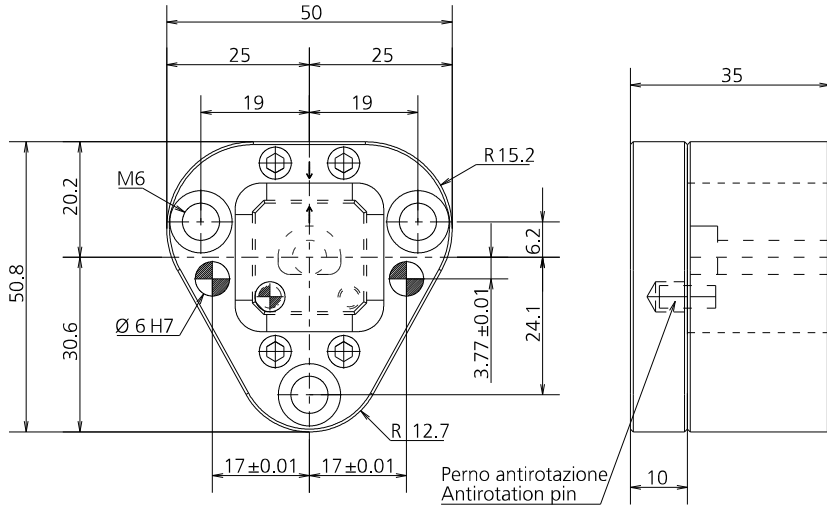
ADJUSTABLE PUNCH HOLDERS / VERSTELBARE STEMPELHALTEPLATTEN / PORTE-POINÇONS RÉGLABLES

DISEGNO DEL MONTAGGIO / MOUNTING DESIGN / MONTAGEZEICHNUNG / DESSIN DU MONTAGE



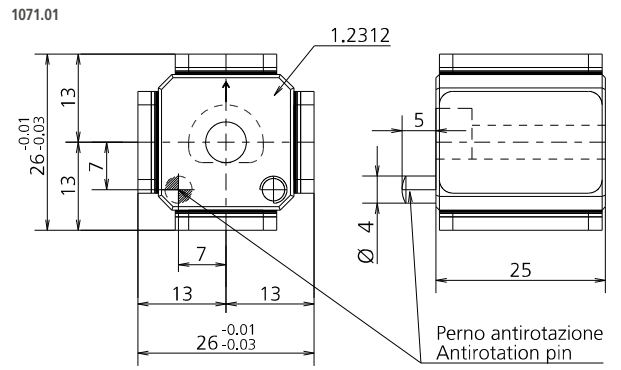
# 1011.0100 - PORTAPUNZONE REGOLABILE

ADJUSTABLE PUNCH HOLDER / VERSTELLBARE STEMPELHALTEPLATTEN / PORTE-POINÇON RÉGLABLE



| CODE      | DESCRIPTION             |
|-----------|-------------------------|
| 1011.0100 | ADJUSTABLE PUNCH HOLDER |

| CODE      | PUNCH      | Q.TY     |
|-----------|------------|----------|
| 1071.0105 | ISO8020 Ø5 | 1*CHOOSE |
| 1071.0106 | ISO8020 Ø6 | 1*CHOOSE |
| 1071.0108 | ISO8020 Ø8 | 1*CHOOSE |



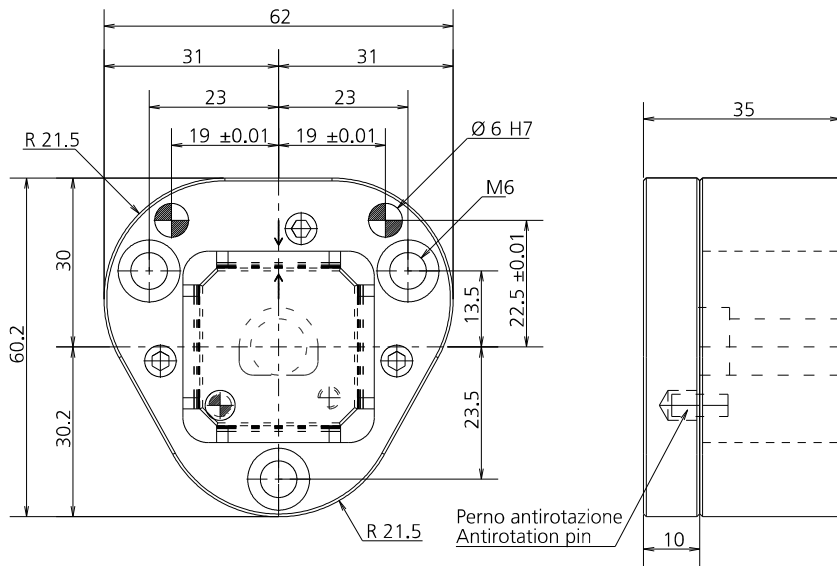
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1011.0100** OPTION CODE **1071.0105**



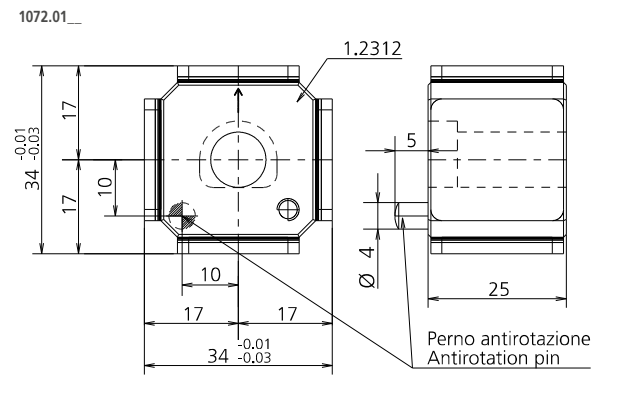
# 1012.0100 - PORTAPUNZONE REGOLABILE

ADJUSTABLE PUNCH HOLDER / VERSTELLBARE STEMPELHALTEPLATTEN / PORTE-POINÇON RÉGLABLE



| CODE      | DESCRIPTION             |
|-----------|-------------------------|
| 1012.0100 | ADJUSTABLE PUNCH HOLDER |

| CODE      | PUNCH       | Q.TY     |
|-----------|-------------|----------|
| 1072.0110 | ISO8020 Ø10 | 1*CHOOSE |
| 1072.0113 | ISO8020 Ø13 | 1*CHOOSE |
| 1072.0116 | ISO8020 Ø16 | 1*CHOOSE |



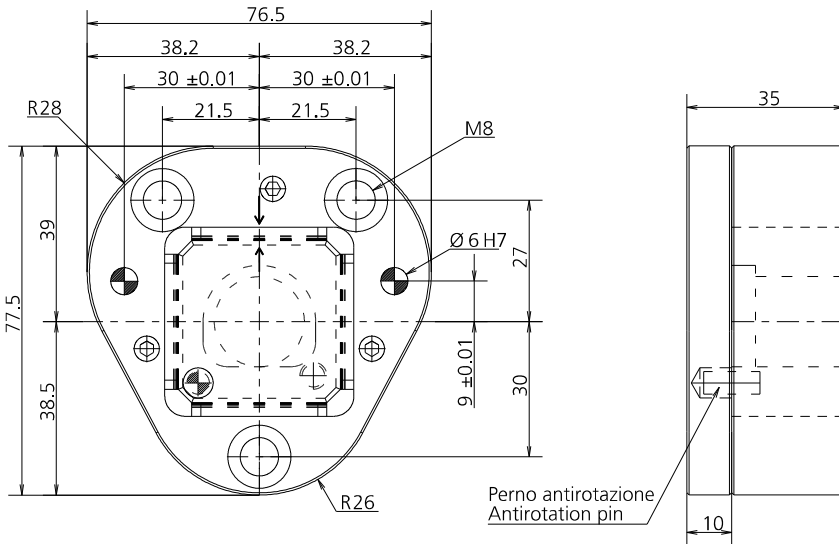
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1012.0100** OPTION CODE **1072.0110**



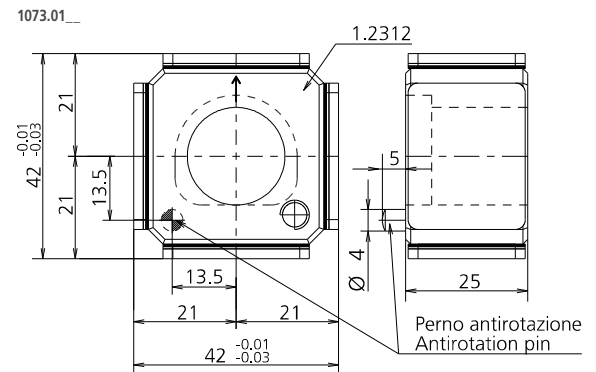
# 1013.0100 - PORTAPUNZONE REGOLABILE

ADJUSTABLE PUNCH HOLDER / VERSTELLBARE STEMPELHALTEPLATTEN / PORTE-POINÇON RÉGLABLE

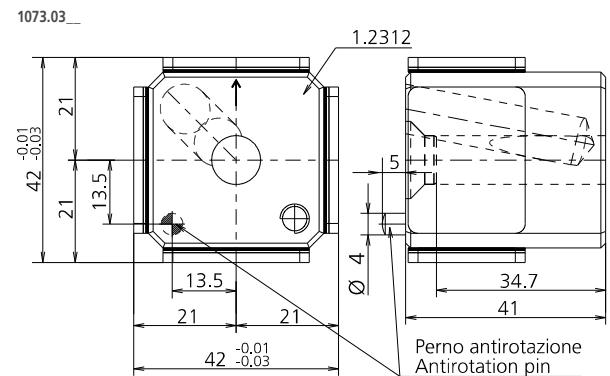


| CODE      | DESCRIPTION             |
|-----------|-------------------------|
| 1013.0100 | ADJUSTABLE PUNCH HOLDER |

| CODE      | PUNCH       | Q.TY     |
|-----------|-------------|----------|
| 1073.0120 | ISO8020 Ø20 | 1*CHOOSE |
| 1073.0125 | ISO8020 Ø25 | 1*CHOOSE |



| CODE      | PUNCH                  | Q.TY     |
|-----------|------------------------|----------|
| 1073.0310 | BALLOCK HEAVY DUTY Ø10 | 1*CHOOSE |
| 1073.0313 | BALLOCK HEAVY DUTY Ø13 | 1*CHOOSE |



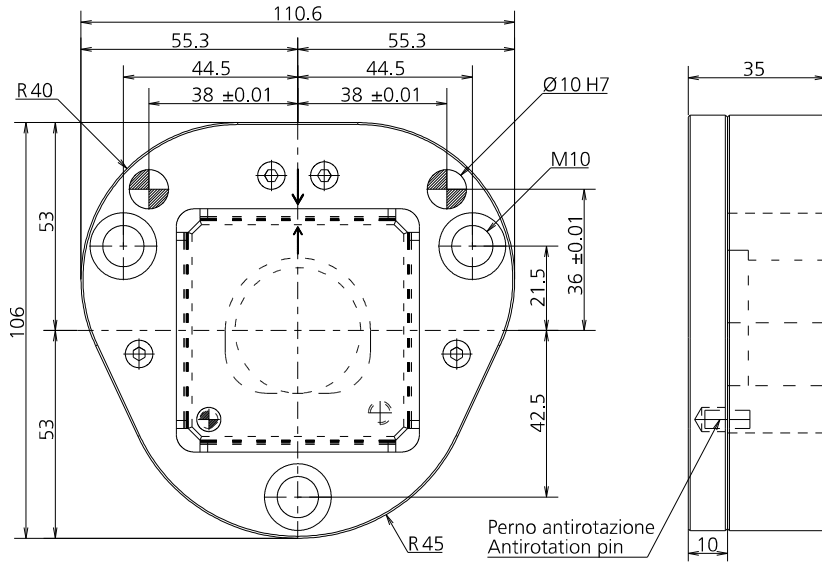
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1013.0100** OPTION CODE **1073.0310**



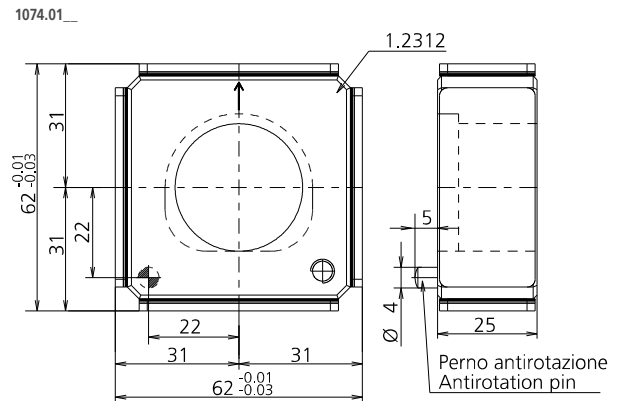
# 1014.0100 - PORTAPUNZONE REGOLABILE

ADJUSTABLE PUNCH HOLDER / VERSTELLBARE STEMPELHALTEPLATTEN / PORTE-POINÇON RÉGLABLE

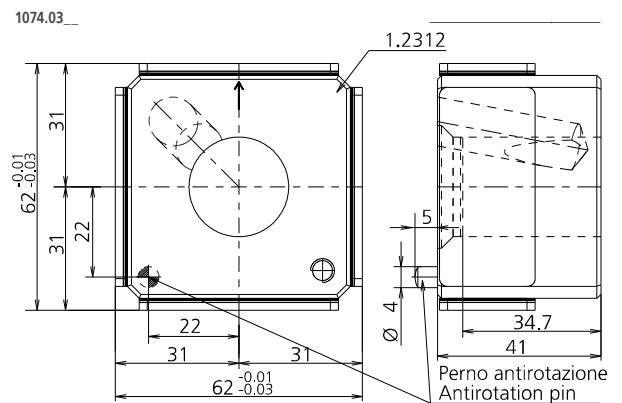


| CODE      | DESCRIPTION             |
|-----------|-------------------------|
| 1014.0100 | ADJUSTABLE PUNCH HOLDER |

| CODE      | PUNCH       | Q.TY     |
|-----------|-------------|----------|
| 1074.0132 | ISO8020 Ø32 | 1*CHOOSE |
| 1074.0140 | ISO8020 Ø40 | 1*CHOOSE |



| CODE      | PUNCH                  | Q.TY     |
|-----------|------------------------|----------|
| 1074.0316 | BALLOCK HEAVY DUTY Ø16 | 1*CHOOSE |
| 1074.0320 | BALLOCK HEAVY DUTY Ø20 | 1*CHOOSE |
| 1074.0325 | BALLOCK HEAVY DUTY Ø25 | 1*CHOOSE |
| 1074.0332 | BALLOCK HEAVY DUTY Ø32 | 1*CHOOSE |
| 1074.0340 | BALLOCK HEAVY DUTY Ø40 | 1*CHOOSE |

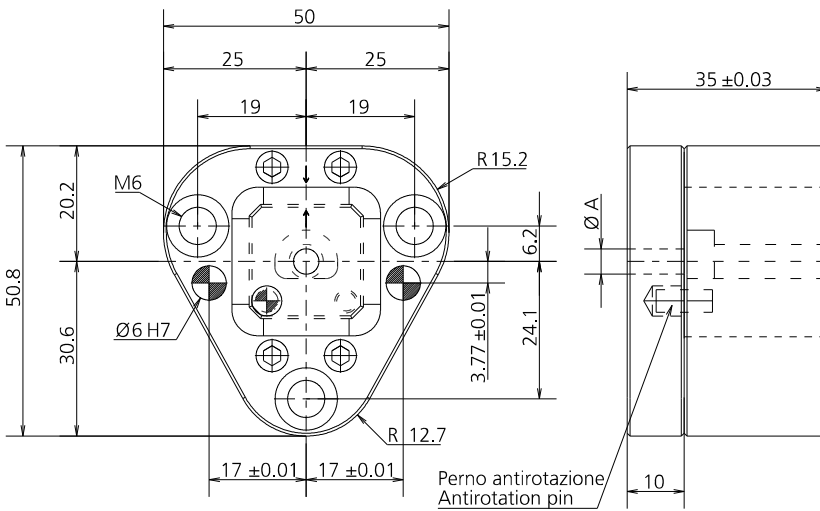


MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1014.0100** OPTION CODE **1074.0232**

# 1021 - PORTA MATRICE REGOLABILE

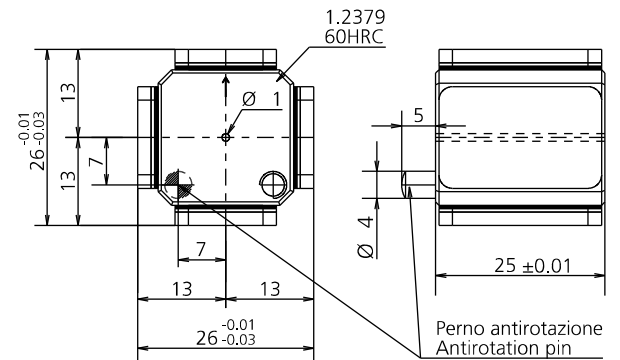
ADJUSTABLE MATRIX HOLDER / VERSTELLBARE MATRIXHALTEPLATTEN / PORTE-MATRICE RÉGLABLE



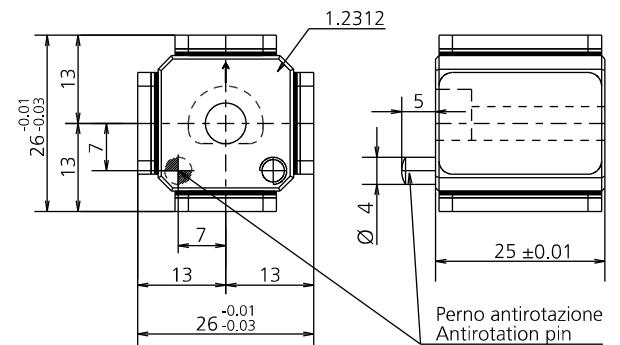
| MODEL     | MATRIX                     | Q.TY | Ø A |                     |
|-----------|----------------------------|------|-----|---------------------|
| 1021.0000 | SBOZZATA / BLANK / ROHLING | 1    | 1   | 1021.0000+1071.0000 |
| 1021.0108 | ISO 8977 Ø8                | 1    | 4.5 | 1021.0108+1071.0108 |

| CODE      | MATRIX                     | Q.TY     |
|-----------|----------------------------|----------|
| 1071.0000 | SBOZZATA / BLANK / ROHLING | 1*OPTION |
| 1071.0108 | ISO 8977 Ø8                | 1*OPTION |

1071.0000



1071.01\_



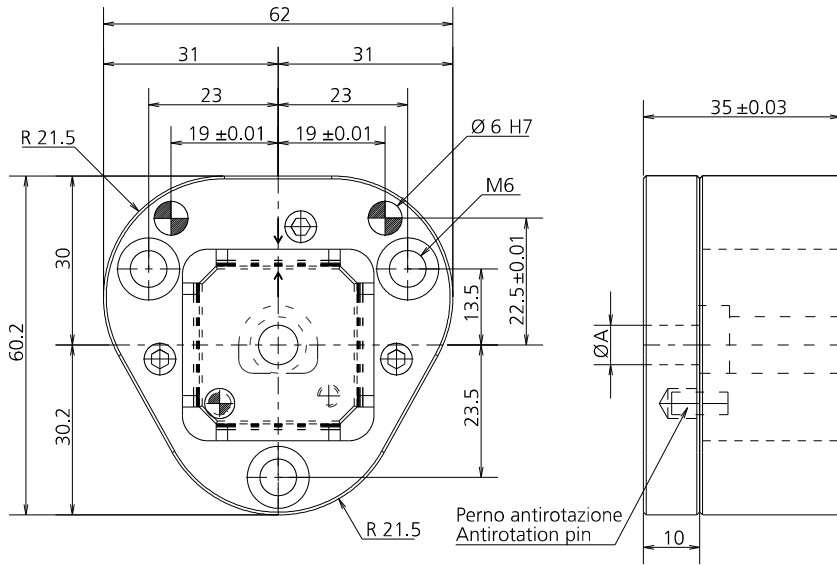
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1021.0000** OPTION CODE **1071.0000**



# 1022 - PORTA MATRICE REGOLABILE

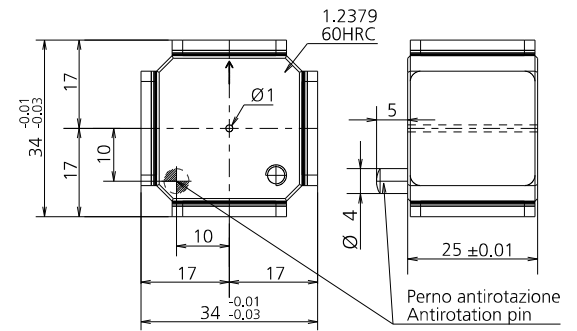
ADJUSTABLE MATRIX HOLDER / VERSTELLBARE MATRIXHALTEPLATTEN / PORTE- MATRICE RÉGLABLE



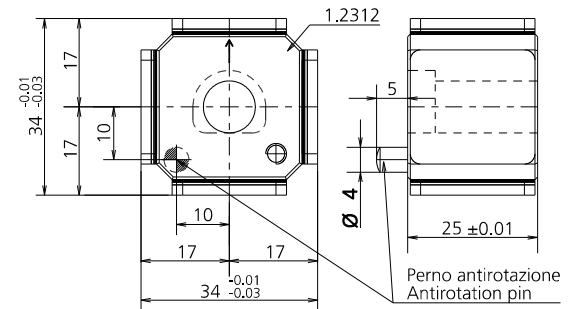
| MODEL            | MATRIX                     | Q.TY | Ø A  |                     |
|------------------|----------------------------|------|------|---------------------|
| <b>1022.0000</b> | SBOZZATA / BLANK / ROHLING | 1    | 1    | 1022.0000+1072.0000 |
| <b>1022.0110</b> | ISO 8977 Ø10               | 1    | 7    | 1022.0110+1072.0110 |
| <b>1022.0113</b> | ISO 8977 Ø13               | 1    | 9    | 1022.0113+1072.0113 |
| <b>1022.0116</b> | ISO 8977 Ø16               | 1    | 10.5 | 1022.0116+1072.0116 |

| CODE             | MATRIX                     | Q.TY     |
|------------------|----------------------------|----------|
| <b>1072.0000</b> | SBOZZATA / BLANK / ROHLING | 1*OPTION |
| <b>1072.0110</b> | ISO 8977 Ø10               | 1*OPTION |
| <b>1072.0113</b> | ISO 8977 Ø13               | 1*OPTION |
| <b>1072.0116</b> | ISO 8977 Ø16               | 1*OPTION |

1072.0000



1072.01\_

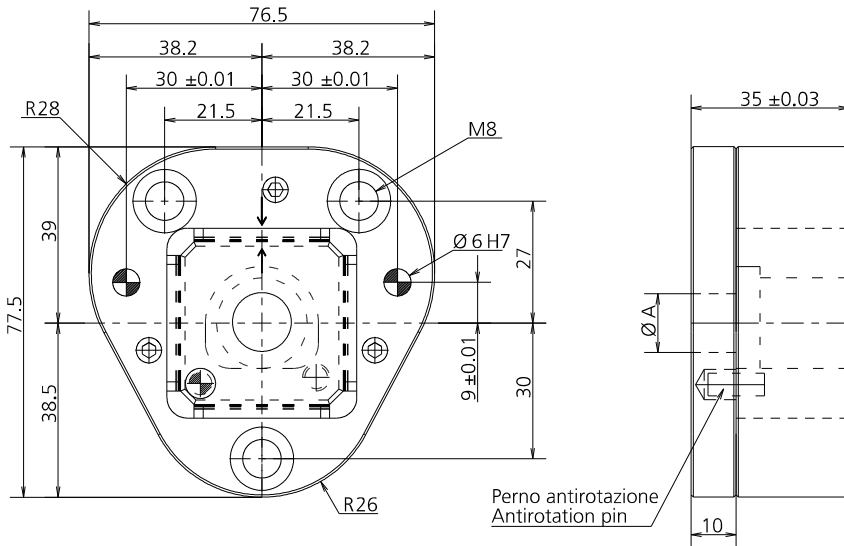


MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1022.0000** OPTION CODE **1072.0000**

# 1023 - PORTA MATRICE REGOLABILE

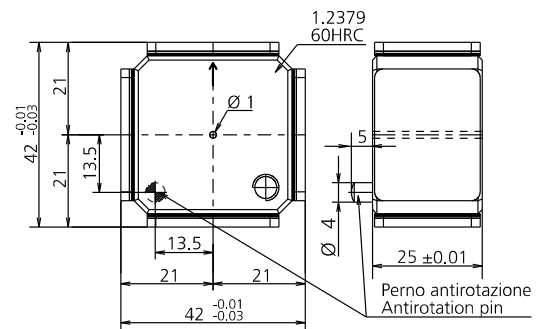
ADJUSTABLE MATRIX HOLDER / VERSTELLBARE MATRIXHALTEPLATTEN / PORTE- MATRICE RÉGLABLE



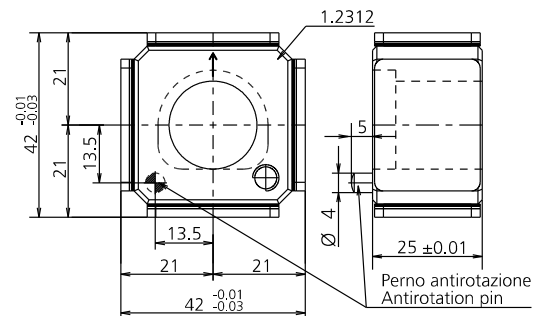
| MODEL            | MATRIX                     | Q.TY | Ø A  |                     |
|------------------|----------------------------|------|------|---------------------|
| <b>1023.0000</b> | SBOZZATA / BLANK / ROHLING | 1    | 1    | 1023.0000+1073.0000 |
| <b>1023.0120</b> | ISO 8977 Ø20               | 1    | 13   | 1023.0120+1073.0120 |
| <b>1023.0125</b> | ISO 8977 Ø25               | 1    | 18.5 | 1023.0125+1073.0125 |

| CODE             | MATRIX                     | Q.TY     |
|------------------|----------------------------|----------|
| <b>1073.0000</b> | SBOZZATA / BLANK / ROHLING | 1*OPTION |
| <b>1073.0120</b> | ISO 8977 Ø20               | 1*OPTION |
| <b>1073.0125</b> | ISO 8977 Ø25               | 1*OPTION |

1073.0000



1073.01\_



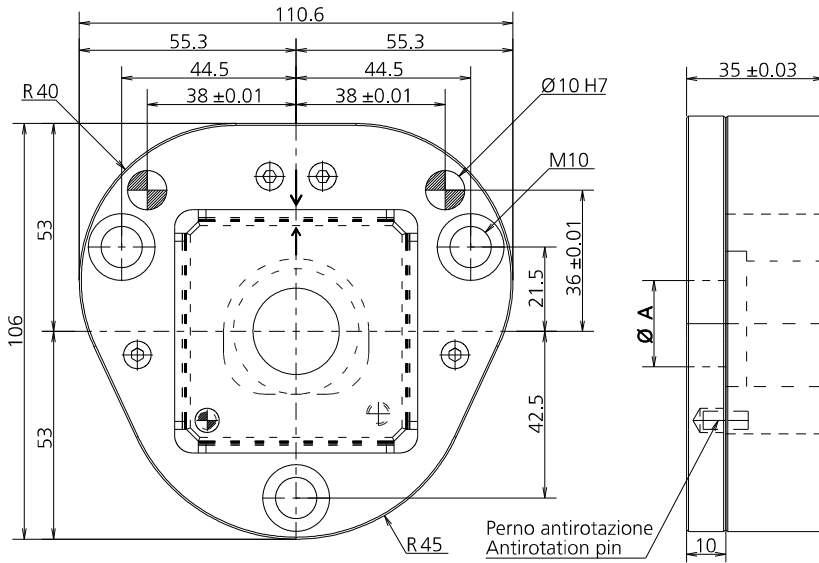
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1023.0000** OPTION CODE **1073.0000**



# 1024 - PORTA MATRICE REGOLABILE

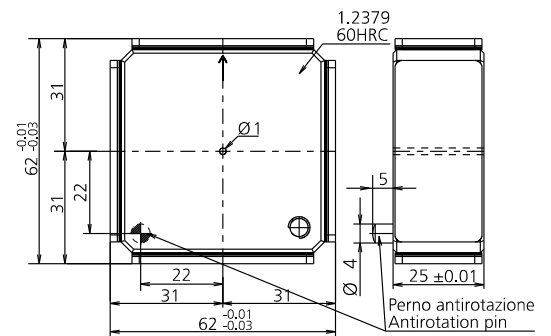
ADJUSTABLE MATRIX HOLDER / VERSTELLBARE MATRIXHALTEPLATTEN / PORTE- MATRICE RÉGLABLE



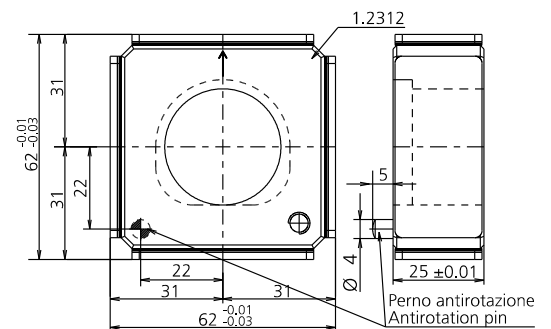
| MODEL            | MATRIX                     | Q.TY | Ø A |                     |
|------------------|----------------------------|------|-----|---------------------|
| <b>1024.0000</b> | SBOZZATA / BLANK / ROHLING | 1    | 1   | 1024.0000+1074.0000 |
| <b>1024.0132</b> | ISO 8977 Ø32               | 1    | 23  | 1024.0132+1074.0132 |
| <b>1024.0140</b> | ISO 8977 Ø40               | 1    | 28  | 1024.0140+1074.0140 |

| CODE             | MATRIX                     | Q.TY     |
|------------------|----------------------------|----------|
| <b>1074.0000</b> | SBOZZATA / BLANK / ROHLING | 1*OPTION |
| <b>1074.0132</b> | ISO 8977 Ø32               | 1*OPTION |
| <b>1074.0140</b> | ISO 8977 Ø40               | 1*OPTION |

1074.0000



1074.01\_



MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1024.0000** OPTION CODE **1074.0000**



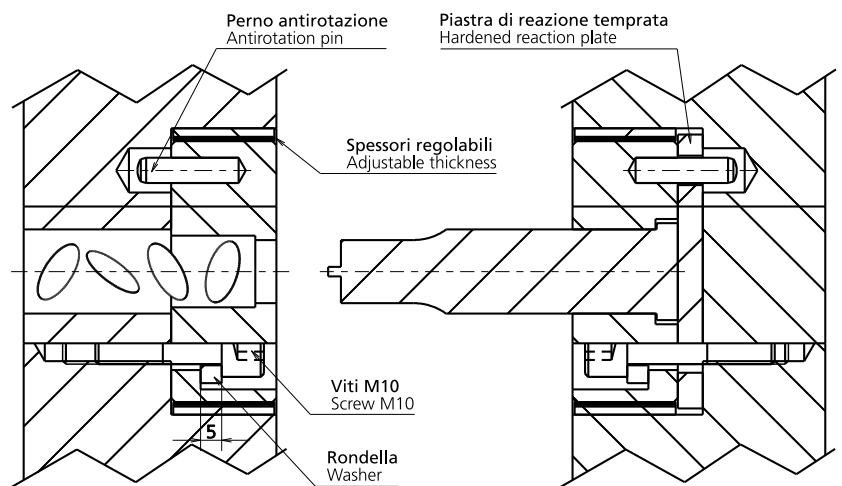
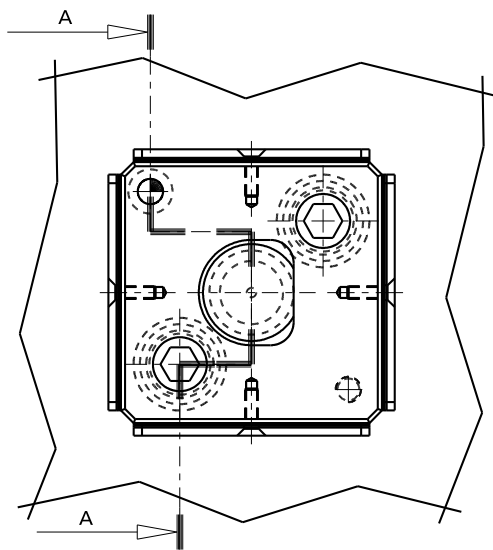
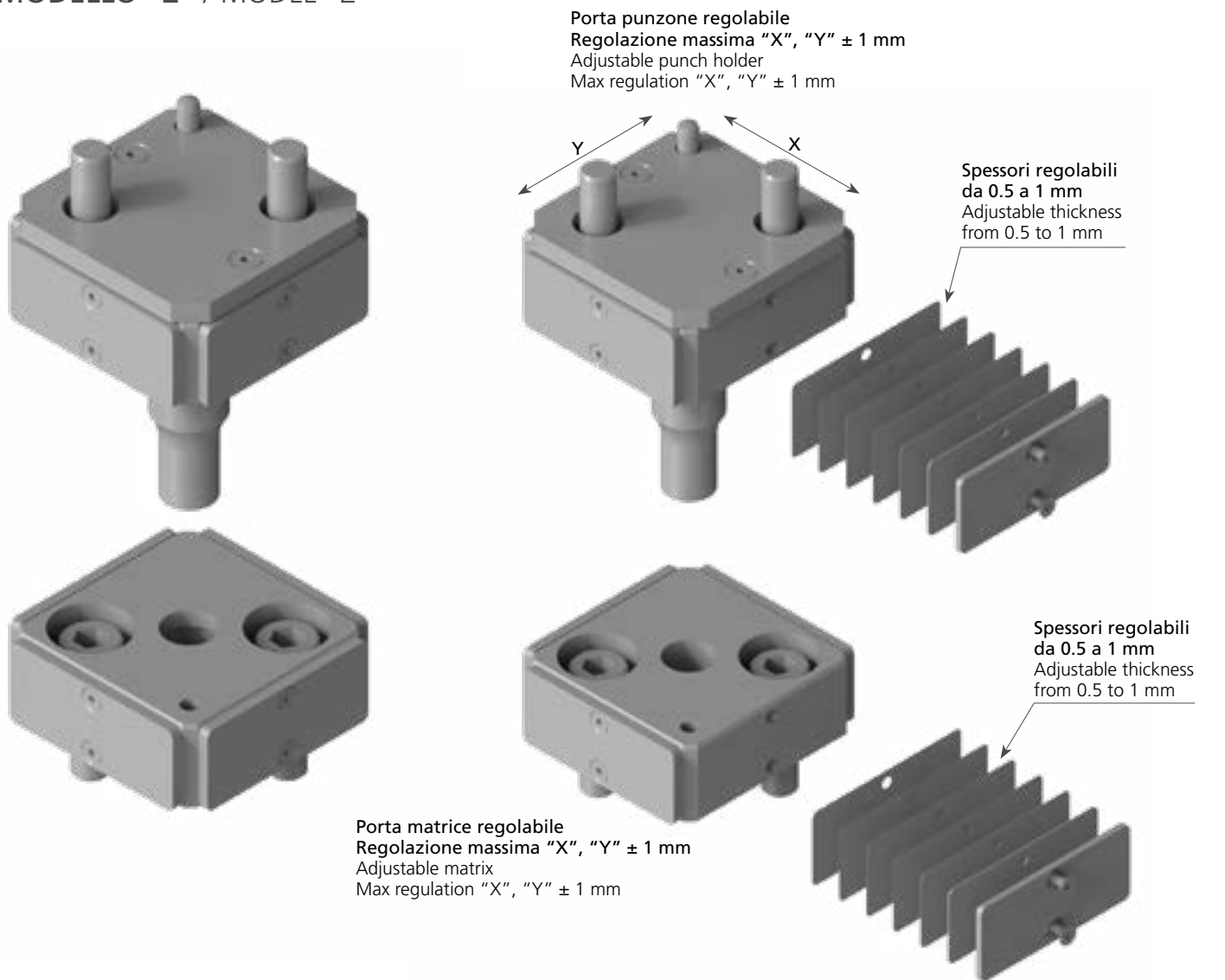


# PORTAPUNZONI REGOLABILI

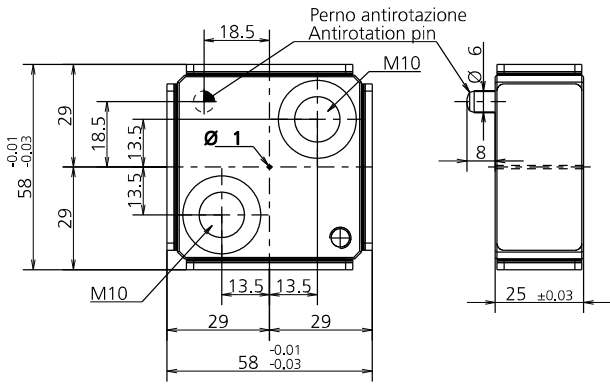
ADJUSTABLE PUNCH HOLDERS / VERSTELBARE STEMPELHALTEPLATTEN  
PORTE-POINÇONS RÉGLABLES



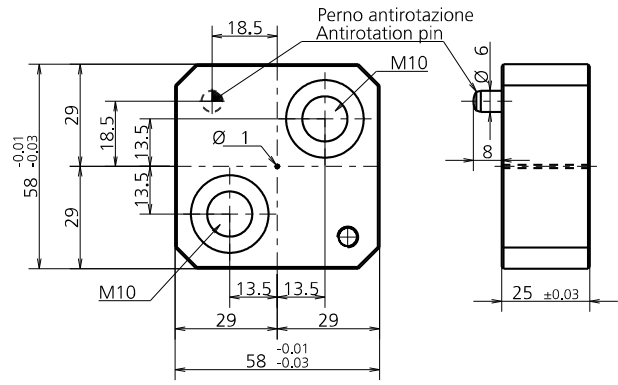
## MODELLO "Z" / MODEL "Z"



Viti, rondelle e piastrina di reazione sono comprese nella fornitura.  
Fixing screws, washer and reaction plate are included in the delivery.

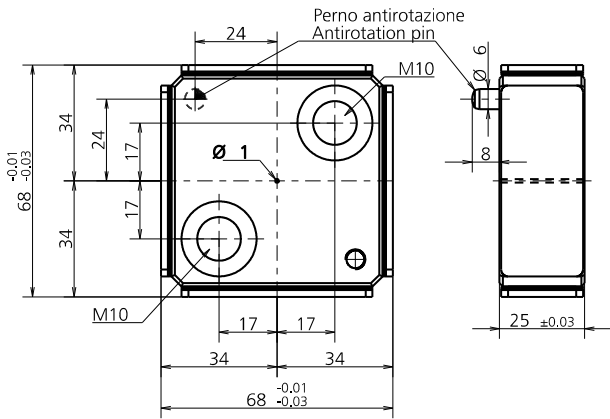


**CODICE / CODE** 1075.0002 **DESCRIZIONE / DESCRIPTION** CON SPESSORI REGOLABILI WITH ADJUSTABLE THICKNESS

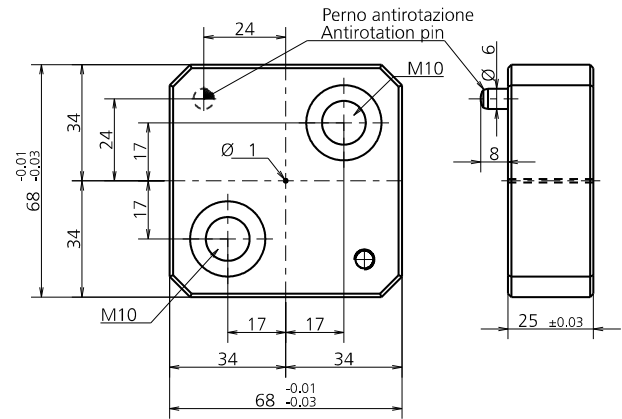


**CODICE / CODE** 1075.0001 **DESCRIZIONE / DESCRIPTION** SENZA SPESSORI REGOLABILI WITHOUT ADJUSTABLE THICKNESS

KIT SPESSORI REGOLABILI / KIT ADJUSTABLE THICKNESS | CODICE / CODE 8123.1075

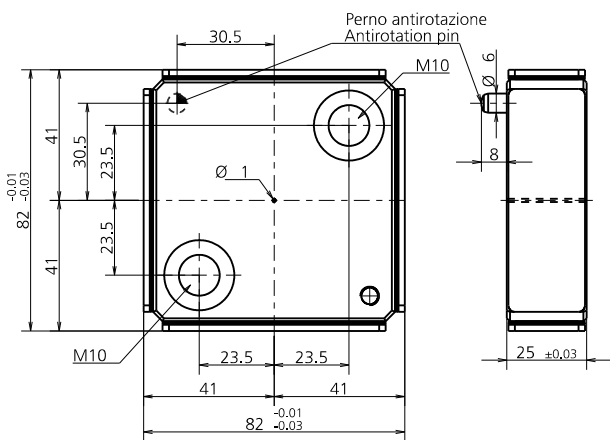


**CODICE / CODE** 1076.0002 **DESCRIZIONE / DESCRIPTION** CON SPESSORI REGOLABILI WITH ADJUSTABLE THICKNESS

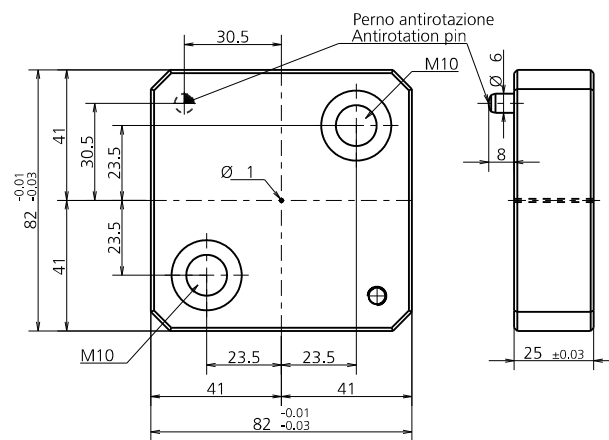


**CODICE / CODE** 1076.0001 **DESCRIZIONE / DESCRIPTION** SENZA SPESSORI REGOLABILI WITHOUT ADJUSTABLE THICKNESS

KIT SPESSORI REGOLABILI / KIT ADJUSTABLE THICKNESS | CODICE / CODE 8123.1076



**CODICE / CODE** 1077.0002 **DESCRIZIONE / DESCRIPTION** CON SPESSORI REGOLABILI WITH ADJUSTABLE THICKNESS



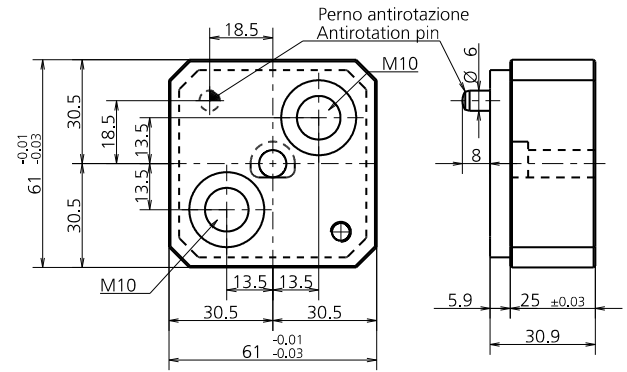
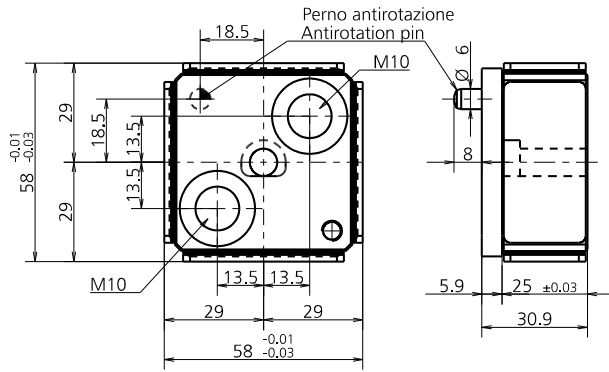
**CODICE / CODE** 1077.0001 **DESCRIZIONE / DESCRIPTION** SENZA SPESSORI REGOLABILI WITHOUT ADJUSTABLE THICKNESS

KIT SPESSORI REGOLABILI / KIT ADJUSTABLE THICKNESS | CODICE / CODE 8123.1077



# PORTAPUNZONI REGOLABILI ISO8020 / PORTAMATRICI ISO8977

ADJUSTABLE PUNCH HOLDER ISO 8020 / MATRIX HOLDER ISO 8977



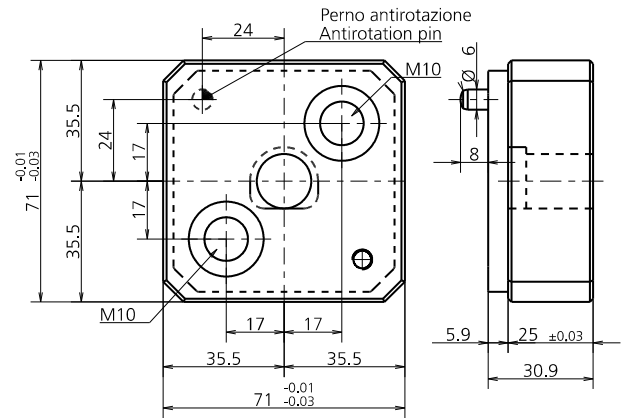
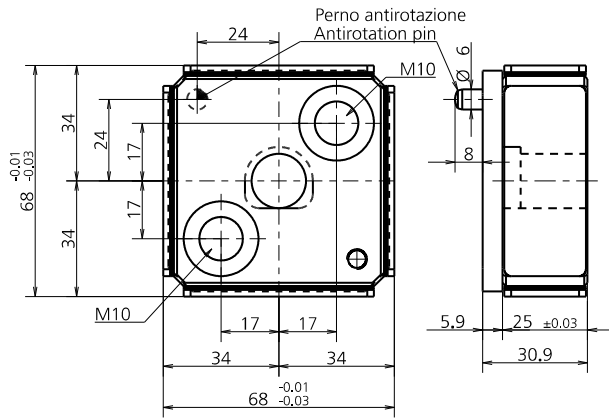
| CODICE - con spessori regolabili<br>CODE - with adjustable thickness | PUNZONE<br>PUNCH | MATRICE<br>MATRIX |
|--|------------------|-------------------|
|--|------------------|-------------------|

|                  |              |              |
|------------------|--------------|--------------|
| <b>1075.G105</b> | ISO 8020 Ø5  | \            |
| <b>1075.G106</b> | ISO 8020 Ø6  | \            |
| <b>1075.G108</b> | ISO 8020 Ø8  | ISO 8977 Ø8  |
| <b>1075.G110</b> | ISO 8020 Ø10 | ISO 8977 Ø10 |

| CODICE - senza spessori regolabili<br>CODE - without adjustable thickness | PUNZONE<br>PUNCH | MATRICE<br>MATRIX |
|---|------------------|-------------------|
|---|------------------|-------------------|

|                  |              |              |
|------------------|--------------|--------------|
| <b>1075.H105</b> | ISO 8020 Ø5  | \            |
| <b>1075.H106</b> | ISO 8020 Ø6  | \            |
| <b>1075.H108</b> | ISO 8020 Ø8  | ISO 8977 Ø8  |
| <b>1075.H110</b> | ISO 8020 Ø10 | ISO 8977 Ø10 |

KIT SPESSORI REGOLABILI / KIT ADJUSTABLE THICKNESS | CODICE / CODE 8123.1075



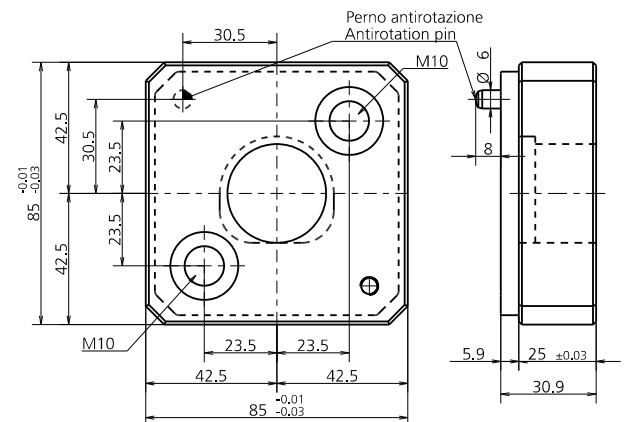
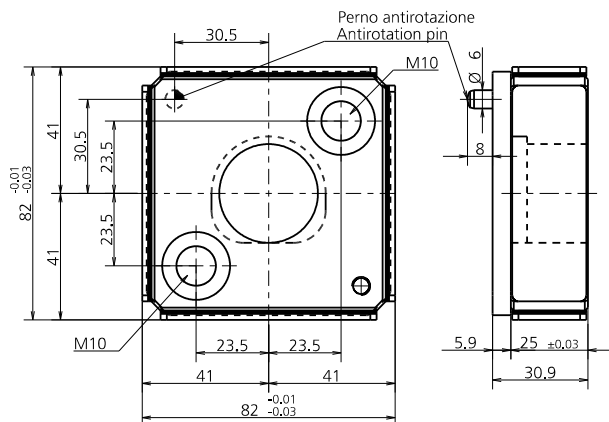
| CODICE - con spessori regolabili<br>CODE - with adjustable thickness | PUNZONE<br>PUNCH | MATRICE<br>MATRIX |
|--|------------------|-------------------|
|--|------------------|-------------------|

|                  |              |              |
|------------------|--------------|--------------|
| <b>1076.G113</b> | ISO 8020 Ø13 | ISO 8977 Ø13 |
| <b>1076.G116</b> | ISO 8020 Ø16 | ISO 8977 Ø16 |
| <b>1076.G120</b> | ISO 8020 Ø20 | ISO 8977 Ø20 |

| CODICE - senza spessori regolabili<br>CODE - without adjustable thickness | PUNZONE<br>PUNCH | MATRICE<br>MATRIX |
|---|------------------|-------------------|
|---|------------------|-------------------|

|                  |              |              |
|------------------|--------------|--------------|
| <b>1076.H113</b> | ISO 8020 Ø13 | ISO 8977 Ø13 |
| <b>1076.H116</b> | ISO 8020 Ø16 | ISO 8977 Ø16 |
| <b>1076.H120</b> | ISO 8020 Ø20 | ISO 8977 Ø20 |

KIT SPESSORI REGOLABILI / KIT ADJUSTABLE THICKNESS | CODICE / CODE 8123.1076



| CODICE - con spessori regolabili<br>CODE - with adjustable thickness | PUNZONE<br>PUNCH | MATRICE<br>MATRIX |
|--|------------------|-------------------|
|--|------------------|-------------------|

|                  |              |              |
|------------------|--------------|--------------|
| <b>1077.G125</b> | ISO 8020 Ø25 | ISO 8977 Ø25 |
| <b>1077.G132</b> | ISO 8020 Ø32 | ISO 8977 Ø32 |
| <b>1077.G140</b> | ISO 8020 Ø40 | ISO 8977 Ø40 |

| CODICE - senza spessori regolabili<br>CODE - without adjustable thickness | PUNZONE<br>PUNCH | MATRICE<br>MATRIX |
|---|------------------|-------------------|
|---|------------------|-------------------|

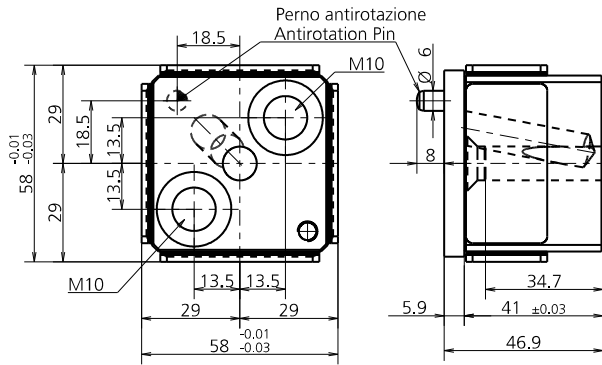
|                  |              |              |
|------------------|--------------|--------------|
| <b>1077.H125</b> | ISO 8020 Ø25 | ISO 8977 Ø25 |
| <b>1077.H132</b> | ISO 8020 Ø32 | ISO 8977 Ø32 |
| <b>1077.H140</b> | ISO 8020 Ø40 | ISO 8977 Ø40 |

KIT SPESSORI REGOLABILI / KIT ADJUSTABLE THICKNESS | CODICE / CODE 8123.1077



# PORTAPUNZONI REGOLABILI BALLOCK HEAVY DUTY

ADJUSTABLE PUNCH HOLDER BALLOCK HEAVY DUTY

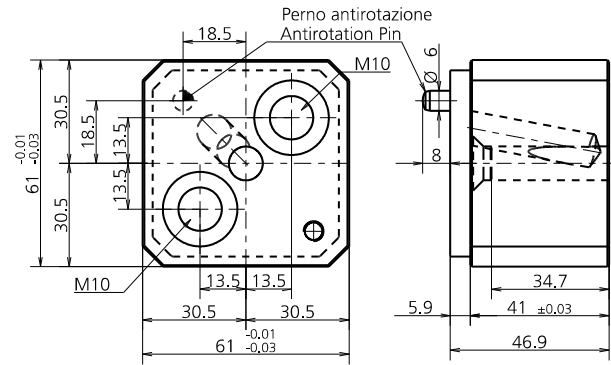


**CODICE - con spessori regolabili**  
CODE - with adjustable thickness

**PUNZONE**  
PUNCH

**1075.G310**

BALLOCK HEAVY DUTY Ø10



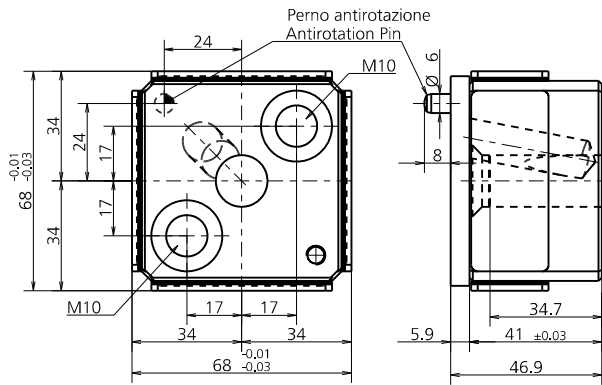
**CODICE - senza spessori regolabili**  
CODE - without adjustable thickness

**PUNZONE**  
PUNCH

**1075.H310**

BALLOCK HEAVY DUTY Ø10

KIT SPessori REGOLABILI / KIT ADJUSTABLE THICKNESS | CODICE / CODE 8123.1075



**CODICE - con spessori regolabili**  
CODE - with adjustable thickness

**PUNZONE**  
PUNCH

**1076.G313**

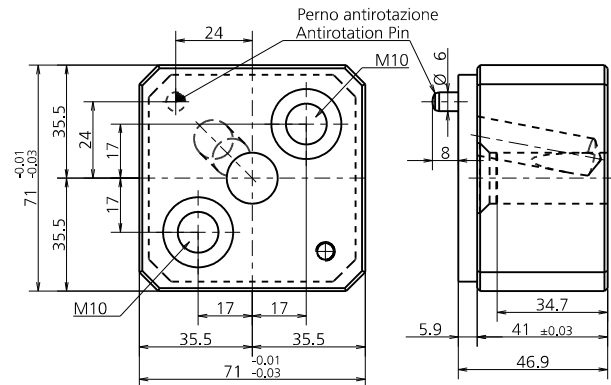
BALLOCK HEAVY DUTY Ø13

**1076.G316**

BALLOCK HEAVY DUTY Ø16

**1076.G320**

BALLOCK HEAVY DUTY Ø20



**CODICE - senza spessori regolabili**  
CODE - without adjustable thickness

**PUNZONE**  
PUNCH

**1076.H313**

BALLOCK HEAVY DUTY Ø13

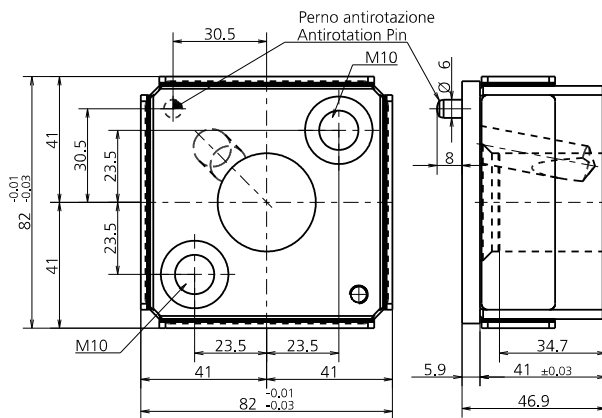
**1076.H316**

BALLOCK HEAVY DUTY Ø16

**1076.H320**

BALLOCK HEAVY DUTY Ø20

KIT SPessori REGOLABILI / KIT ADJUSTABLE THICKNESS | CODICE / CODE 8123.1076



**CODICE - con spessori regolabili**  
CODE - with adjustable thickness

**PUNZONE**  
PUNCH

**1077.G325**

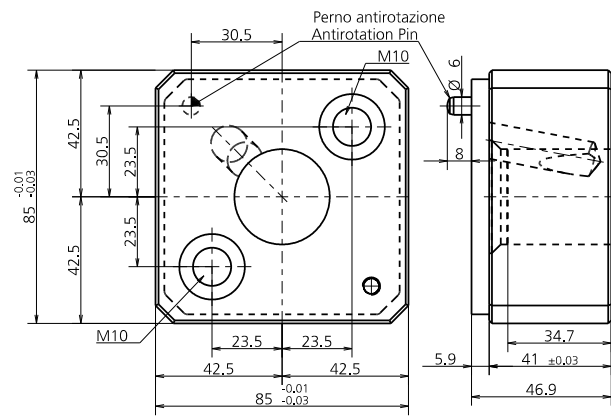
BALLOCK HEAVY DUTY Ø25

**1077.G332**

BALLOCK HEAVY DUTY Ø32

**1077.G340**

BALLOCK HEAVY DUTY Ø40



**CODICE - senza spessori regolabili**  
CODE - without adjustable thickness

**PUNZONE**  
PUNCH

**1077.H325**

BALLOCK HEAVY DUTY Ø25

**1077.H332**

BALLOCK HEAVY DUTY Ø32

**1077.H340**

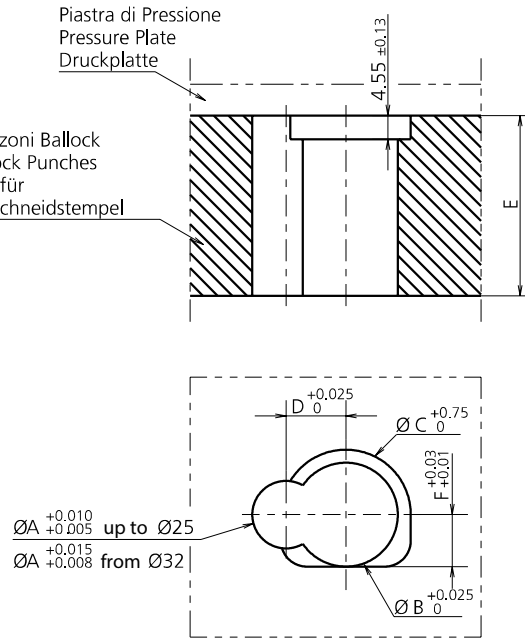
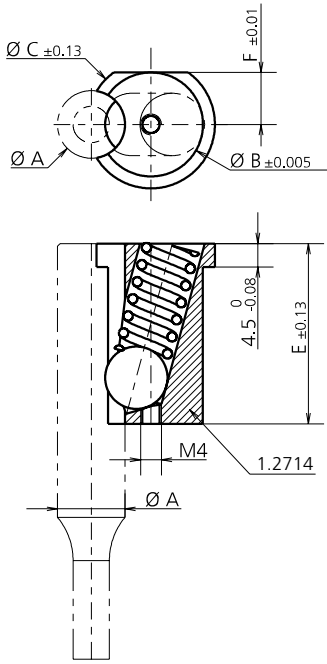
BALLOCK HEAVY DUTY Ø40

KIT SPessori REGOLABILI / KIT ADJUSTABLE THICKNESS | CODICE / CODE 8123.1077



# 1051 - INSERTO DI FISSAGGIO PER BALLOCK HEAVY DUTY

FIXTURE DEVICE FOR BALLOCK HEAVY DUTY / BEFESTIGUNGSVORRICHTUNG FÜR BALLOCK HEAVY DUTY  
 INSERT DE FIXATION POUR BALLOCK HEAVY DUTY



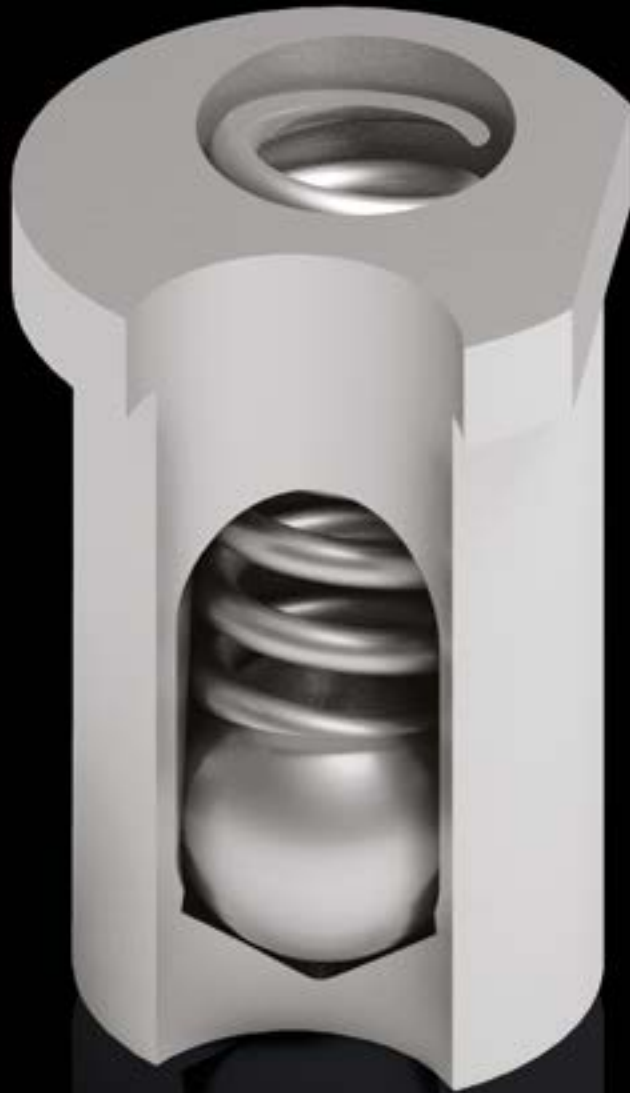
| MODEL     | Ø A | Ø B | Ø C  | D    | E    |
|-----------|-----|-----|------|------|------|
| 1051.0010 | 10  | 16  | 19.6 | 10   | 34.7 |
| 1051.0013 | 13  | 20  | 24.6 | 11.5 | 34.7 |
| 1051.0016 | 16  | 20  | 24.6 | 13   | 34.7 |
| 1051.0020 | 20  | 20  | 24.6 | 15   | 34.7 |
| 1051.0025 | 25  | 20  | 24.6 | 17.5 | 34.7 |
| 1051.0032 | 32  | 20  | 24.6 | 21   | 34.7 |
| 1051.0040 | 40  | 20  | 24.6 | 25   | 34.7 |



MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1051** Ø DIAMETER PUNCH **0010**



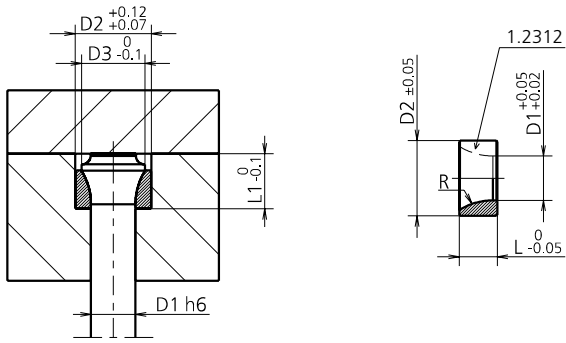


# INSERTI BALLOCK



# 1061 - INSERTO A COLLO DI TROMBONE

BOTTLE NECK INSERT / AUFNAHMEHÜLSE FÜR SCHNEIDSTEMPEL MIT POSAUNENHALS  
INSERT À COL DE CYGNE



| MODEL     | D1  | R  | D2   | D3 | L | L1 |
|-----------|-----|----|------|----|---|----|
| 1061.0050 | 5   | 10 | 8.8  | 7  | 7 | 11 |
| 1061.0051 | 5.1 | 10 | 8.8  | 7  | 7 | 11 |
| 1061.0052 | 5.2 | 10 | 8.8  | 7  | 7 | 11 |
| 1061.0053 | 5.3 | 10 | 8.8  | 7  | 7 | 11 |
| 1061.0054 | 5.4 | 10 | 8.8  | 7  | 7 | 11 |
| 1061.0055 | 5.5 | 10 | 9.8  | 8  | 7 | 11 |
| 1061.0056 | 5.6 | 10 | 9.8  | 8  | 7 | 11 |
| 1061.0057 | 5.7 | 10 | 9.8  | 8  | 7 | 11 |
| 1061.0058 | 5.8 | 10 | 9.8  | 8  | 7 | 11 |
| 1061.0059 | 5.9 | 10 | 9.8  | 8  | 7 | 11 |
| 1061.0060 | 6   | 10 | 10.8 | 9  | 7 | 11 |
| 1061.0061 | 6.1 | 10 | 10.8 | 9  | 7 | 11 |
| 1061.0062 | 6.2 | 10 | 10.8 | 9  | 7 | 11 |
| 1061.0063 | 6.3 | 10 | 10.8 | 9  | 7 | 11 |
| 1061.0064 | 6.4 | 10 | 10.8 | 9  | 7 | 11 |
| 1061.0065 | 6.5 | 12 | 11.8 | 10 | 7 | 11 |
| 1061.0066 | 6.6 | 12 | 11.8 | 10 | 7 | 11 |
| 1061.0067 | 6.7 | 12 | 11.8 | 10 | 7 | 11 |
| 1061.0068 | 6.8 | 12 | 11.8 | 10 | 7 | 11 |
| 1061.0069 | 6.9 | 12 | 11.8 | 10 | 7 | 11 |
| 1061.0070 | 7   | 12 | 11.8 | 10 | 7 | 11 |
| 1061.0071 | 7.1 | 12 | 11.8 | 10 | 7 | 11 |
| 1061.0072 | 7.2 | 12 | 11.8 | 10 | 7 | 11 |
| 1061.0073 | 7.3 | 12 | 11.8 | 10 | 7 | 11 |
| 1061.0074 | 7.4 | 12 | 11.8 | 10 | 7 | 11 |
| 1061.0075 | 7.5 | 12 | 12.8 | 11 | 7 | 11 |
| 1061.0076 | 7.6 | 12 | 12.8 | 11 | 7 | 11 |
| 1061.0077 | 7.7 | 12 | 12.8 | 11 | 7 | 11 |
| 1061.0078 | 7.8 | 12 | 12.8 | 11 | 7 | 11 |
| 1061.0079 | 7.9 | 12 | 12.8 | 11 | 7 | 11 |
| 1061.0080 | 8   | 12 | 12.8 | 11 | 7 | 11 |
| 1061.0081 | 8.1 | 12 | 12.8 | 11 | 7 | 11 |
| 1061.0082 | 8.2 | 12 | 12.8 | 11 | 7 | 11 |
| 1061.0083 | 8.3 | 12 | 12.8 | 11 | 7 | 11 |
| 1061.0084 | 8.4 | 12 | 12.8 | 11 | 7 | 11 |
| 1061.0085 | 8.5 | 15 | 14.8 | 13 | 8 | 12 |
| 1061.0086 | 8.6 | 15 | 14.8 | 13 | 8 | 12 |
| 1061.0087 | 8.7 | 15 | 14.8 | 13 | 8 | 12 |
| 1061.0088 | 8.8 | 15 | 14.8 | 13 | 8 | 12 |
| 1061.0089 | 8.9 | 15 | 14.8 | 13 | 8 | 12 |
| 1061.0090 | 9   | 15 | 14.8 | 13 | 8 | 12 |
| 1061.0091 | 9.1 | 15 | 14.8 | 13 | 8 | 12 |
| 1061.0092 | 9.2 | 15 | 14.8 | 13 | 8 | 12 |
| 1061.0093 | 9.3 | 15 | 14.8 | 13 | 8 | 12 |
| 1061.0094 | 9.4 | 15 | 14.8 | 13 | 8 | 12 |

| MODEL     | D1   | R  | D2   | D3 | L | L1 |
|-----------|------|----|------|----|---|----|
| 1061.0095 | 9.5  | 15 | 15.8 | 14 | 9 | 13 |
| 1061.0096 | 9.6  | 15 | 15.8 | 14 | 9 | 13 |
| 1061.0097 | 9.7  | 15 | 15.8 | 14 | 9 | 13 |
| 1061.0098 | 9.8  | 15 | 15.8 | 14 | 9 | 13 |
| 1061.0099 | 9.9  | 15 | 15.8 | 14 | 9 | 13 |
| 1061.0100 | 10   | 15 | 15.8 | 14 | 9 | 13 |
| 1061.0101 | 10.1 | 15 | 15.8 | 14 | 9 | 13 |
| 1061.0102 | 10.2 | 15 | 15.8 | 14 | 9 | 13 |
| 1061.0103 | 10.3 | 15 | 15.8 | 14 | 9 | 13 |
| 1061.0104 | 10.4 | 15 | 15.8 | 14 | 9 | 13 |
| 1061.0105 | 10.5 | 15 | 17.8 | 15 | 9 | 13 |
| 1061.0106 | 10.6 | 15 | 17.8 | 15 | 9 | 13 |
| 1061.0107 | 10.7 | 15 | 17.8 | 15 | 9 | 13 |
| 1061.0108 | 10.8 | 15 | 17.8 | 15 | 9 | 13 |
| 1061.0109 | 10.9 | 15 | 17.8 | 15 | 9 | 13 |
| 1061.0110 | 11   | 15 | 17.8 | 15 | 9 | 13 |
| 1061.0111 | 11.1 | 15 | 17.8 | 15 | 9 | 13 |
| 1061.0112 | 11.2 | 15 | 17.8 | 15 | 9 | 13 |
| 1061.0113 | 11.3 | 15 | 17.8 | 15 | 9 | 13 |
| 1061.0114 | 11.4 | 15 | 17.8 | 15 | 9 | 13 |
| 1061.0115 | 11.5 | 15 | 17.8 | 16 | 9 | 13 |
| 1061.0116 | 11.6 | 15 | 17.8 | 16 | 9 | 13 |
| 1061.0117 | 11.7 | 15 | 17.8 | 16 | 9 | 13 |
| 1061.0118 | 11.8 | 15 | 17.8 | 16 | 9 | 13 |
| 1061.0119 | 11.9 | 15 | 17.8 | 16 | 9 | 13 |
| 1061.0120 | 12   | 15 | 17.8 | 16 | 9 | 13 |
| 1061.0121 | 12.1 | 15 | 17.8 | 16 | 9 | 13 |
| 1061.0122 | 12.2 | 15 | 17.8 | 16 | 9 | 13 |
| 1061.0123 | 12.3 | 15 | 17.8 | 16 | 9 | 13 |
| 1061.0124 | 12.4 | 15 | 17.8 | 16 | 9 | 13 |
| 1061.0125 | 12.5 | 15 | 19.8 | 17 | 9 | 13 |
| 1061.0126 | 12.6 | 15 | 19.8 | 17 | 9 | 13 |
| 1061.0127 | 12.7 | 15 | 19.8 | 17 | 9 | 13 |
| 1061.0128 | 12.8 | 15 | 19.8 | 17 | 9 | 13 |
| 1061.0129 | 12.9 | 15 | 19.8 | 17 | 9 | 13 |
| 1061.0130 | 13   | 15 | 19.8 | 17 | 9 | 13 |
| 1061.0131 | 13.1 | 15 | 19.8 | 17 | 9 | 13 |
| 1061.0132 | 13.2 | 15 | 19.8 | 17 | 9 | 13 |
| 1061.0133 | 13.3 | 15 | 19.8 | 17 | 9 | 13 |
| 1061.0134 | 13.4 | 15 | 19.8 | 17 | 9 | 13 |
| 1061.0135 | 13.5 | 15 | 19.8 | 18 | 9 | 13 |
| 1061.0136 | 13.6 | 15 | 19.8 | 18 | 9 | 13 |
| 1061.0137 | 13.7 | 15 | 19.8 | 18 | 9 | 13 |
| 1061.0138 | 13.8 | 15 | 19.8 | 18 | 9 | 13 |
| 1061.0139 | 13.9 | 15 | 19.8 | 18 | 9 | 13 |
| 1061.0140 | 14   | 15 | 19.8 | 18 | 9 | 13 |
| 1061.0141 | 14.1 | 15 | 19.8 | 18 | 9 | 13 |
| 1061.0142 | 14.2 | 15 | 19.8 | 18 | 9 | 13 |
| 1061.0143 | 14.3 | 15 | 19.8 | 18 | 9 | 13 |
| 1061.0144 | 14.4 | 15 | 19.8 | 18 | 9 | 13 |

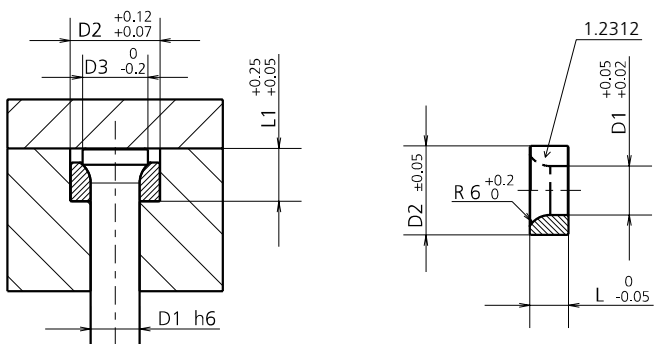
| MODEL     | D1   | R  | D2   | D3 | L | L1 |
|-----------|------|----|------|----|---|----|
| 1061.0145 | 14.5 | 15 | 21.8 | 19 | 9 | 13 |
| 1061.0146 | 14.6 | 15 | 21.8 | 19 | 9 | 13 |
| 1061.0147 | 14.7 | 15 | 21.8 | 19 | 9 | 13 |
| 1061.0148 | 14.8 | 15 | 21.8 | 19 | 9 | 13 |
| 1061.0149 | 14.9 | 15 | 21.8 | 19 | 9 | 13 |
| 1061.0150 | 15   | 15 | 21.8 | 19 | 9 | 13 |
| 1061.0151 | 15.1 | 15 | 21.8 | 19 | 9 | 13 |
| 1061.0152 | 15.2 | 15 | 21.8 | 19 | 9 | 13 |
| 1061.0153 | 15.3 | 15 | 21.8 | 19 | 9 | 13 |
| 1061.0154 | 15.4 | 15 | 21.8 | 19 | 9 | 13 |
| 1061.0155 | 15.5 | 15 | 21.8 | 20 | 9 | 13 |
| 1061.0156 | 15.6 | 15 | 21.8 | 20 | 9 | 13 |
| 1061.0157 | 15.7 | 15 | 21.8 | 20 | 9 | 13 |
| 1061.0158 | 15.8 | 15 | 21.8 | 20 | 9 | 13 |
| 1061.0159 | 15.9 | 15 | 21.8 | 20 | 9 | 13 |
| 1061.0160 | 16   | 15 | 21.8 | 20 | 9 | 13 |
| 1061.0161 | 16.1 | 15 | 21.8 | 20 | 9 | 13 |
| 1061.0162 | 16.2 | 15 | 21.8 | 20 | 9 | 13 |
| 1061.0163 | 16.3 | 15 | 21.8 | 20 | 9 | 13 |
| 1061.0164 | 16.4 | 15 | 21.8 | 20 | 9 | 13 |
| 1061.0165 | 16.5 | 15 | 23.8 | 21 | 9 | 13 |
| 1061.0166 | 16.6 | 15 | 23.8 | 21 | 9 | 13 |
| 1061.0167 | 16.7 | 15 | 23.8 | 21 | 9 | 13 |
| 1061.0168 | 16.8 | 15 | 23.8 | 21 | 9 | 13 |
| 1061.0169 | 16.9 | 15 | 23.8 | 21 | 9 | 13 |
| 1061.0170 | 17   | 15 | 23.8 | 21 | 9 | 13 |
| 1061.0171 | 17.1 | 15 | 23.8 | 21 | 9 | 13 |
| 1061.0172 | 17.2 | 15 | 23.8 | 21 | 9 | 13 |
| 1061.0173 | 17.3 | 15 | 23.8 | 21 | 9 | 13 |
| 1061.0174 | 17.4 | 15 | 23.8 | 21 | 9 | 13 |
| 1061.0175 | 17.5 | 15 | 24.8 | 22 | 9 | 13 |
| 1061.0176 | 17.6 | 15 | 24.8 | 22 | 9 | 13 |
| 1061.0177 | 17.7 | 15 | 24.8 | 22 | 9 | 13 |
| 1061.0178 | 17.8 | 15 | 24.8 | 22 | 9 | 13 |
| 1061.0179 | 17.9 | 15 | 24.8 | 22 | 9 | 13 |
| 1061.0180 | 18   | 15 | 24.8 | 22 | 9 | 13 |
| 1061.0181 | 18.1 | 15 | 24.8 | 22 | 9 | 13 |
| 1061.0182 | 18.2 | 15 | 24.8 | 22 | 9 | 13 |
| 1061.0183 | 18.3 | 15 | 24.8 | 22 | 9 | 13 |
| 1061.0184 | 18.4 | 15 | 24.8 | 22 | 9 | 13 |
| 1061.0185 | 18.5 | 15 | 25.8 | 23 | 9 | 13 |
| 1061.0186 | 18.6 | 15 | 25.8 | 23 | 9 | 13 |
| 1061.0187 | 18.7 | 15 | 25.8 | 23 | 9 | 13 |
| 1061.0188 | 18.8 | 15 | 25.8 | 23 | 9 | 13 |
| 1061.0189 | 18.9 | 15 | 25.8 | 23 | 9 | 13 |
| 1061.0190 | 19   | 15 | 25.8 | 23 | 9 | 13 |
| 1061.0191 | 19.1 | 15 | 25.8 | 23 | 9 | 13 |
| 1061.0192 | 19.2 | 15 | 25.8 | 23 | 9 | 13 |
| 1061.0193 | 19.3 | 15 | 25.8 | 23 | 9 | 13 |
| 1061.0194 | 19.4 | 15 | 25.8 | 23 | 9 | 13 |
| 1061.0195 | 19.5 | 15 | 27.8 | 25 | 9 | 13 |
| 1061.0196 | 19.6 | 15 | 27.8 | 25 | 9 | 13 |
| 1061.0197 | 19.7 | 15 | 27.8 | 25 | 9 | 13 |
| 1061.0198 | 19.8 | 15 | 27.8 | 25 | 9 | 13 |
| 1061.0199 | 19.9 | 15 | 27.8 | 25 | 9 | 13 |
| 1061.0200 | 20   | 15 | 27.8 | 25 | 9 | 13 |

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1061** Ø DIAMETER PUNCH **0050**

# 1062 - INSERTO A TESTA RINFORZATA

REINFORCED HEAD INSERT / HALTEINSÄTZE FÜR VERSTÄRKT KOPF / INSERT À TÊTE RENFORCÉE



| MODEL     | D1 | D2   | D3 | L   | L1 |
|-----------|----|------|----|-----|----|
| 1062.0050 | 5  | 12.8 | 8  | 8.5 | 11 |
| 1062.0060 | 6  | 12.8 | 9  | 8.5 | 11 |
| 1062.0070 | 7  | 14.8 | 10 | 8.5 | 11 |
| 1062.0080 | 8  | 14.8 | 11 | 8.5 | 11 |
| 1062.0090 | 9  | 17.8 | 13 | 9.5 | 12 |
| 1062.0100 | 10 | 17.8 | 14 | 9.5 | 12 |
| 1062.0110 | 11 | 17.8 | 15 | 9.5 | 13 |
| 1062.0120 | 12 | 21.8 | 16 | 9.5 | 13 |
| 1062.0130 | 13 | 21.8 | 17 | 9.5 | 13 |
| 1062.0140 | 14 | 21.8 | 18 | 9.5 | 13 |
| 1062.0150 | 15 | 24.8 | 19 | 9.5 | 13 |
| 1062.0160 | 16 | 24.8 | 20 | 9.5 | 13 |
| 1062.0170 | 17 | 24.8 | 21 | 9.5 | 13 |
| 1062.0180 | 18 | 27.8 | 22 | 9.5 | 13 |
| 1062.0190 | 19 | 27.8 | 23 | 9.5 | 13 |
| 1062.0200 | 20 | 27.8 | 24 | 9.5 | 13 |

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1062** Ø DIAMETER PUNCH **0050**



# UNITÀ DI PUNZONATURA AD AZOTO

NITROGEN PUNCHING UNITS / STICKSTOFF-STANZEINHEIT  
UNITÉ DE POINÇONNAGE À L'AZOTE



- IT** Unità di punzonatura ad azoto per punzoni ISO8020 con potenza di estrazione fino a 4'000 daN.
- EN** Nitrogen punching unit for ISO8020 punches with extraction force up to 4'000 daN.
- DE** Stickstoff-Stanzeinheit für ISO8020-Stempel mit Rückzugskraft bis zu 4'000 daN.
- FR** Unité de poinçonnage à l'azote pour les poinçons ISO8020 avec une puissance d'extraction allant jusqu'à 4'000 daN.



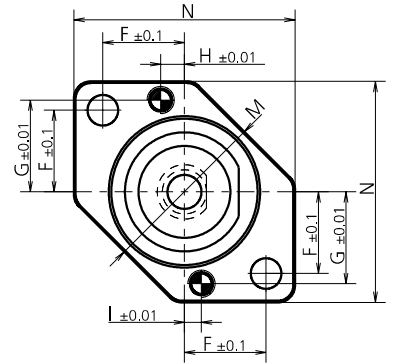
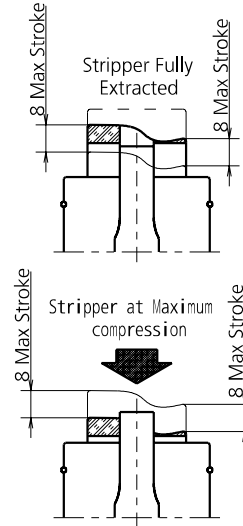
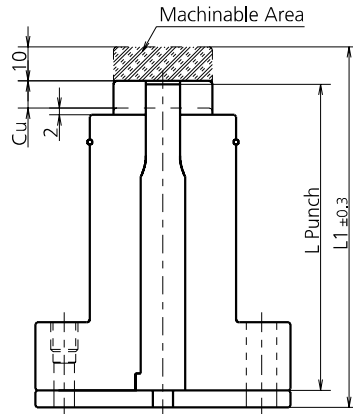
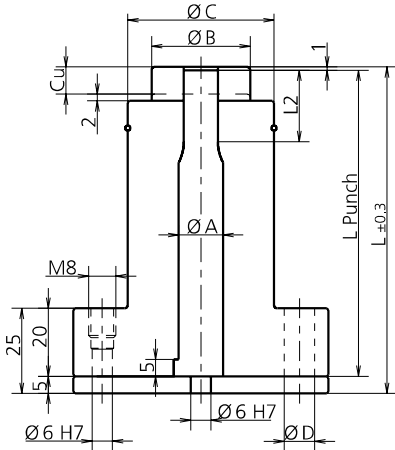
PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE





# 1501 - UNITÀ DI PUNZONATURA AD AZOTO

NITROGEN PUNCHING UNIT / STICKSTOFF-STANZEINHEIT / UNITÉ DE POINÇONNAGE À L'AZOTE



| MODEL     | Ø A | Ø B | Ø C | Ø D | F  | G    | H  | I  | M  | N  | L PUNCH | L      | L1 | L2      | STROKE | INITIAL EXTRACTION FORCE (DaN) |
|-----------|-----|-----|-----|-----|----|------|----|----|----|----|---------|--------|----|---------|--------|--------------------------------|
| 1501.1001 | 10  | 23  | 35  | 9   | 19 | 22   | 7  | 5  | 42 | 55 | 90/100  | 96/106 | 25 | 106/116 | 8      | 125                            |
| 1501.1002 | 10  | 23  | 35  | 9   | 19 | 22   | 7  | 5  | 42 | 55 | 90/100  | 96/106 | 25 | 106/116 | 8      | 255                            |
| 1501.1003 | 10  | 23  | 35  | 9   | 19 | 22   | 7  | 5  | 42 | 55 | 90/100  | 96/106 | 25 | 106/116 | 8      | 380                            |
| 1501.1004 | 10  | 23  | 35  | 9   | 19 | 22   | 7  | 5  | 42 | 55 | 90/100  | 96/106 | 25 | 106/116 | 8      | 505                            |
| 1501.1301 | 13  | 29  | 43  | 9   | 24 | 27   | 7  | 5  | 50 | 65 | 90/100  | 96/106 | 25 | 106/116 | 8      | 175                            |
| 1501.1302 | 13  | 29  | 43  | 9   | 24 | 27   | 7  | 5  | 50 | 65 | 90/100  | 96/106 | 25 | 106/116 | 8      | 350                            |
| 1501.1303 | 13  | 29  | 43  | 9   | 24 | 27   | 7  | 5  | 50 | 65 | 90/100  | 96/106 | 25 | 106/116 | 8      | 520                            |
| 1501.1304 | 13  | 29  | 43  | 9   | 24 | 27   | 7  | 5  | 50 | 65 | 90/100  | 96/106 | 25 | 106/116 | 8      | 695                            |
| 1501.1601 | 16  | 29  | 43  | 9   | 24 | 27   | 7  | 5  | 50 | 65 | 90/100  | 96/106 | 25 | 106/116 | 8      | 175                            |
| 1501.1602 | 16  | 29  | 43  | 9   | 24 | 27   | 7  | 5  | 50 | 65 | 90/100  | 96/106 | 25 | 106/116 | 8      | 350                            |
| 1501.1603 | 16  | 29  | 43  | 9   | 24 | 27   | 7  | 5  | 50 | 65 | 90/100  | 96/106 | 25 | 106/116 | 8      | 520                            |
| 1501.1604 | 16  | 29  | 43  | 9   | 24 | 27   | 7  | 5  | 50 | 65 | 90/100  | 96/106 | 25 | 106/116 | 8      | 695                            |
| 1501.2001 | 20  | 40  | 58  | 11  | 28 | 32,5 | 13 | 11 | 64 | 78 | 90/100  | 96/106 | 25 | 106/116 | 8      | 290                            |
| 1501.2002 | 20  | 40  | 58  | 11  | 28 | 32,5 | 13 | 11 | 64 | 78 | 90/100  | 96/106 | 25 | 106/116 | 8      | 580                            |
| 1501.2003 | 20  | 40  | 58  | 11  | 28 | 32,5 | 13 | 11 | 64 | 78 | 90/100  | 96/106 | 25 | 106/116 | 8      | 870                            |
| 1501.2004 | 20  | 40  | 58  | 11  | 28 | 32,5 | 13 | 11 | 64 | 78 | 90/100  | 96/106 | 25 | 106/116 | 8      | 1160                           |
| 1501.2501 | 25  | 40  | 58  | 11  | 28 | 32,5 | 13 | 11 | 64 | 78 | 90/100  | 96/106 | 25 | 106/116 | 8      | 290                            |
| 1501.2502 | 25  | 40  | 58  | 11  | 28 | 32,5 | 13 | 11 | 64 | 78 | 90/100  | 96/106 | 25 | 106/116 | 8      | 580                            |
| 1501.2503 | 25  | 40  | 58  | 11  | 28 | 32,5 | 13 | 11 | 64 | 78 | 90/100  | 96/106 | 25 | 106/116 | 8      | 870                            |
| 1501.2504 | 25  | 40  | 58  | 11  | 28 | 32,5 | 13 | 11 | 64 | 78 | 90/100  | 96/106 | 25 | 106/116 | 8      | 1160                           |
| 1501.3201 | 32  | 48  | 67  | 13  | 31 | 37   | 14 | 12 | 74 | 85 | 90/100  | 96/106 | 25 | 106/116 | 8      | 345                            |
| 1501.3202 | 32  | 48  | 67  | 13  | 31 | 37   | 14 | 12 | 74 | 85 | 90/100  | 96/106 | 25 | 106/116 | 8      | 695                            |
| 1501.3203 | 32  | 48  | 67  | 13  | 31 | 37   | 14 | 12 | 74 | 85 | 90/100  | 96/106 | 25 | 106/116 | 8      | 1040                           |
| 1501.3204 | 32  | 48  | 67  | 13  | 31 | 37   | 14 | 12 | 74 | 85 | 90/100  | 96/106 | 25 | 106/116 | 8      | 1390                           |
| 1501.4001 | 40  | 60  | 81  | 13  | 36 | 42,5 | 21 | 19 | 90 | 96 | 90/100  | 96/106 | 25 | 106/116 | 8      | 470                            |
| 1501.4002 | 40  | 60  | 81  | 13  | 36 | 42,5 | 21 | 19 | 90 | 96 | 90/100  | 96/106 | 25 | 106/116 | 8      | 940                            |
| 1501.4003 | 40  | 60  | 81  | 13  | 36 | 42,5 | 21 | 19 | 90 | 96 | 90/100  | 96/106 | 25 | 106/116 | 8      | 1410                           |
| 1501.4004 | 40  | 60  | 81  | 13  | 36 | 42,5 | 21 | 19 | 90 | 96 | 90/100  | 96/106 | 25 | 106/116 | 8      | 1880                           |

| CODE          | DESCRIPTION                              | Q.TY                         |
|---------------|--|------------------------------|
| 9016/8016.... | PREMILAMIERA / BLANKHOLDER / BLECHHALTER | 1*CHOOSE<br>REF. PAG.<br>165 |

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1501.4004** OPTION CODE **9016/8016. \_\_**



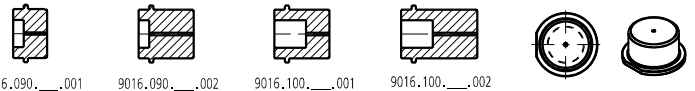
# 9016/8016 - PREMILAMIERA CILINDRICA

BLANKHOLDER / BLECHHALTER / SERRE-FLAN CYLINDRIQUE

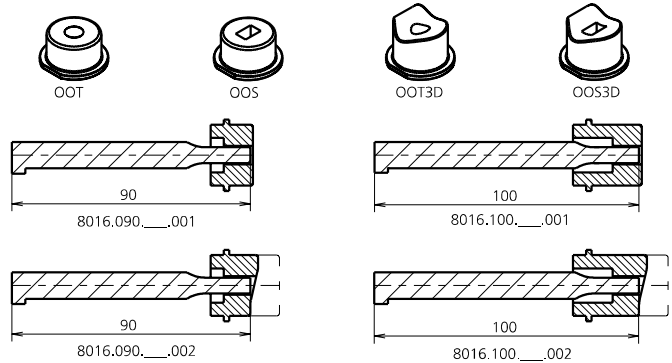
| CODE             | DESCRIPTION   | Q.TY     |
|------------------|---|----------|
| 9016.090.010.001 | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM Ø10  | 1*CHOOSE |
| 9016.090.010.002 | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM Ø10   | 1*CHOOSE |
| 9016.100.010.001 | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM Ø10 | 1*CHOOSE |
| 9016.100.010.002 | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM Ø10  | 1*CHOOSE |
| 8016.090.010.001 | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM Ø10  | 1*CHOOSE |
| 8016.090.010.002 | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM Ø10   | 1*CHOOSE |
| 8016.100.010.001 | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM Ø10 | 1*CHOOSE |
| 8016.100.010.002 | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM Ø10  | 1*CHOOSE |
| 9016.090.136.001 | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM Ø13  | 1*CHOOSE |
| 9016.090.136.002 | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM Ø13   | 1*CHOOSE |
| 9016.100.136.001 | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM Ø13 | 1*CHOOSE |
| 9016.100.136.002 | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM Ø13  | 1*CHOOSE |
| 8016.090.136.001 | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM Ø13  | 1*CHOOSE |
| 8016.090.136.002 | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM Ø13   | 1*CHOOSE |
| 8016.100.136.001 | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM Ø13 | 1*CHOOSE |
| 8016.100.136.002 | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM Ø13  | 1*CHOOSE |
| 9016.090.136.001 | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM Ø16  | 1*CHOOSE |
| 9016.090.136.002 | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM Ø16   | 1*CHOOSE |
| 9016.100.136.001 | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM Ø16 | 1*CHOOSE |
| 9016.100.136.002 | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM Ø16  | 1*CHOOSE |
| 8016.090.136.001 | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM Ø16  | 1*CHOOSE |
| 8016.090.136.002 | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM Ø16   | 1*CHOOSE |
| 8016.100.136.001 | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM Ø16 | 1*CHOOSE |
| 8016.100.136.002 | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM Ø16  | 1*CHOOSE |
| 9016.090.205.001 | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM Ø20  | 1*CHOOSE |
| 9016.090.205.002 | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM Ø20   | 1*CHOOSE |
| 9016.100.205.001 | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM Ø20 | 1*CHOOSE |
| 9016.100.205.002 | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM Ø20  | 1*CHOOSE |
| 8016.090.205.001 | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM Ø20  | 1*CHOOSE |
| 8016.090.205.002 | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM Ø20   | 1*CHOOSE |
| 8016.100.205.001 | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM Ø20 | 1*CHOOSE |
| 8016.100.205.002 | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM Ø20  | 1*CHOOSE |
| 9016.090.205.001 | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM Ø25  | 1*CHOOSE |
| 9016.090.205.002 | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM Ø25   | 1*CHOOSE |
| 9016.100.205.001 | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM Ø25 | 1*CHOOSE |
| 9016.100.205.002 | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM Ø25  | 1*CHOOSE |
| 8016.090.205.001 | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM Ø25  | 1*CHOOSE |
| 8016.090.205.002 | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM Ø25   | 1*CHOOSE |
| 8016.100.205.001 | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM Ø25 | 1*CHOOSE |
| 8016.100.205.002 | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM Ø25  | 1*CHOOSE |
| 9016.090.032.001 | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM Ø32  | 1*CHOOSE |
| 9016.090.032.002 | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM Ø32   | 1*CHOOSE |

| CODE             | DESCRIPTION   | Q.TY     |
|------------------|---|----------|
| 9016.100.032.001 | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM Ø32 | 1*CHOOSE |
| 9016.100.032.002 | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM Ø32  | 1*CHOOSE |
| 8016.090.032.001 | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM Ø32  | 1*CHOOSE |
| 8016.090.032.002 | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM Ø32   | 1*CHOOSE |
| 8016.100.032.001 | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM Ø32 | 1*CHOOSE |
| 8016.100.032.002 | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM Ø32  | 1*CHOOSE |
| 9016.090.040.001 | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM Ø40  | 1*CHOOSE |
| 9016.090.040.002 | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM Ø40   | 1*CHOOSE |
| 9016.100.040.001 | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM Ø40 | 1*CHOOSE |
| 9016.100.040.002 | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM Ø40  | 1*CHOOSE |
| 8016.090.040.001 | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM Ø40  | 1*CHOOSE |
| 8016.090.040.002 | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM Ø40   | 1*CHOOSE |
| 8016.100.040.001 | PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM Ø40 | 1*CHOOSE |
| 8016.100.040.002 | PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM Ø40  | 1*CHOOSE |

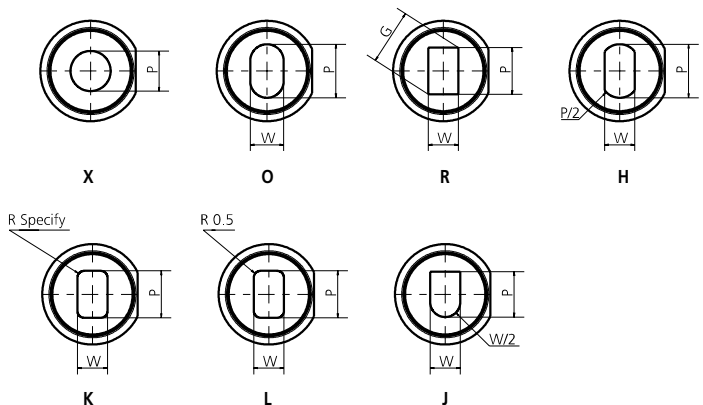
9016 PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER BRONZE = BRAL 5275



8016 TESTINA SAGOMATA / SHAPED HEAD / GEFORMT BLECHHALTERKOPF



PREMILAMIERA SAGOMATO / SHAPED BLANKHOLDER / GEFORMT BLECHHALTER



Attenzione: per sagome speciali, è necessario un disegno 3D del cliente.  
 Attention: In case of special shape, the customer's 3D drawing is necessary.  
 Achtung: Kundenspezifische Profile werden ausschließlich nach Vorlage einer 3D-Zeichnung gefertigt.  
 Attention: pour les formes spéciales, un dessin en 3D du client est nécessaire.  
 Luce per lato / Clearance / Lichtstrahlung auf jeder Seite / Espace par côté: 0,15mm



## 8061.01 - MASCHERA PER LAVORAZIONE DEL PREMILAMIERA

JIG FOR MACHINING THE BLANKHOLDER / BAUTEIL FÜR BLECHHALTERBEARBEITUNG / GABARIT POUR USINAGE DU SERRE-FLAN

### SMONTAGGIO / DISASSEMBLY / DEMONTAGE / DÉMONTAGE



#### ATTENZIONE

- Per sagomare la testina:
- rimuoverla dall'unità;
  - inserirla nel dispositivo;
  - avvitare la ghiera di bloccaggio;
  - posizionare il dispositivo su macchina utensile, elettroerosione o stampo per eseguire la sagoma richiesta;
  - rimontare la testina.

#### ATTENTION

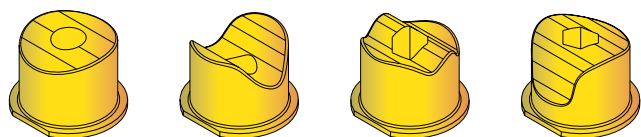
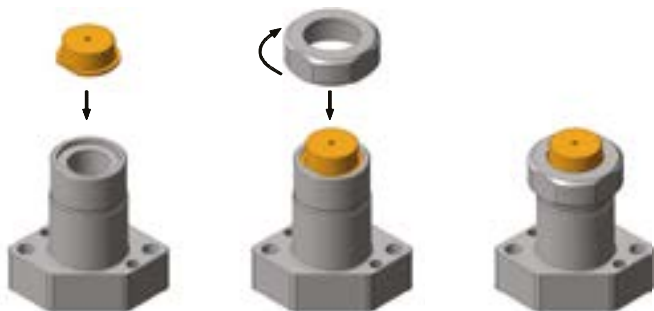
- Pour façonner la tête:
- l'enlever de l'unité;
  - l'insérer dans le dispositif;
  - visser la bague de verrouillage;
  - placer l'appareil sur une machine outil, électroérosion ou outil de découpe pour exécuter le modèle requis;
  - remonter la tête.

#### ATTENTION

- In order to shape the head:
- remove it from the unit;
  - insert the head into the special device;
  - tighten the locking ring nut;
  - place the device on the machine stain, EDM or tool plate to perform the required shape;
  - put back together the head with the body.

#### ACHTUNG

- Zum Profilieren bitte folgenden Schritten folgen:
- den Kopf von der Einheit entfernen;
  - den Kopf in die Vorrichtung einsetzen;
  - den Verriegelungsring festschrauben;
  - die Vorrichtung in die Werkzeugmaschine einbauen, Elektroerosion oder Werkzeug zum Profilieren;
  - den Kopf einbauen.



Esempi di premilamiera speciali. / Examples of special blankholder.  
Beispiel von besonderen Blechhaltern. / Exemples de serre-flans spéciaux.

| MODEL     | Ø PUNCH |
|-----------|---------|
| 8061.0110 | 10      |
| 8061.0113 | 13-16   |
| 8061.0120 | 20-25   |
| 8061.0132 | 32      |
| 8061.0140 | 40      |

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **8061.0110**



# UNITÀ DI PUNZONATURA AD AZOTO

NITROGEN PUNCHING UNITS / STICKSTOFF-STANZEINHEIT  
UNITÉ DE POINÇONNAGE À L'AZOTE



# STARK STRIPPERS

STARK STRIPPERS / STARK STRIPPERS / STARK STRIPPERS



## STARK STRIPPERS

STARK STRIPPERS / STARK STRIPPERS / STARK STRIPPERS

- IT** Dispositivi applicabili alla maggior parte dei porta punzoni in commercio, con testa cilindrica o Ballock (Light-Heavy Duty), che permettono di estrarre il punzone dalla lamiera garantendo forza e sicurezza con ingombri minimi. Questi estrattori, grazie all'alta qualità della gomma in poliuretano EFFEBE, aumentano la durata di vita del punzone in quanto supportano la punta del punzone e ne assorbono le vibrazioni in fase di foratura, permettendo inoltre di ridurre i tempi di attrezzaggio e manutenzione. Le testine in BRAL, che variano in base alla lunghezza del punzone, sono facilmente intercambiabili, sagomabili e dotate di un sistema di antirotazione.
- EN** Stark strippers are designed to be mount directly to most industry standard retainers, for both Ballock (Light-Heavy Duty) and headed punches, which allow the extraction of the punch from the metal sheet, providing strength and security with minimum dimensions. These strippers, thanks to the high quality of the polyurethane EFFEBE rubber, not only increase the punch life supporting its tip and dampening the vibrations during drilling stage, but also allow to reduce the setup time and maintenance. The inserts made in BRAL, which vary according to the length of the punch, are easily interchangeable, machinable and equipped with an anti-rotation system.
- DE** Dieser Abstreifer lässt sich bei den meisten herkömmlichen Lochstempeln mit zylindrischem Kopf bzw. mit dem Ballock System (Light-Heavy Duty) anwenden. Bei kleinem Platzbedarf wird der Lochstempel somit kraftvoll und sicher vom Blech abgestreift. Dank der hohen Qualität der EFFEBE-Feder aus Polyurethan werden die Schäfte der Lochstempel besser gestützt, die Schwingungen gedämpft und somit die Lebensdauer des Lochstempels verlängert. Ferner werden die Nachrüst- und Wartungszeiten ebenfalls verkürzt. Die BRAL-Köpfe unterscheiden sich je nach Lochstempel. Diese können ausgetauscht und profiliert werden und sind mit einem Anti-Rotationsystem versehen.
- FR** Dispositifs applicables à la plupart des porte-poinçons présent sur le marché, à tête cylindrique ou Ballock (Light-Heavy Duty), qui permettent d'extraire le poinçon de la tôle en garantissant la résistance et la sécurité avec des dimensions d'encombrement minimales. Ces extracteurs, grâce à la haute qualité du caoutchouc polyuréthane EFFEBE, augmentent la durée de vie du poinçon car ils soutiennent la pointe du poinçon et absorbent les vibrations pendant le forage, ce qui permet également de réduire les temps d'outillage et de maintenance. Les têtes en BRAL, qui varient en fonction de la longueur du poinçon, sont facilement interchangeables, profilées et équipées d'un système anti-rotation.

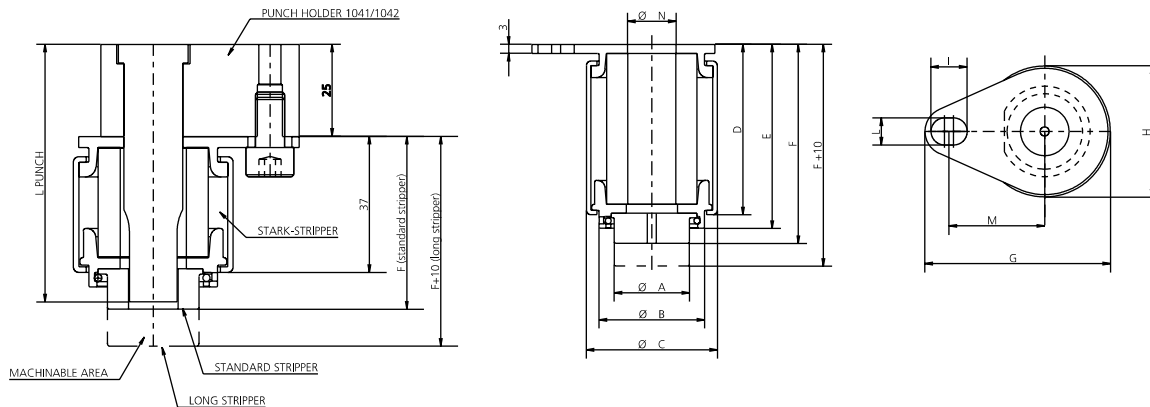


### PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE





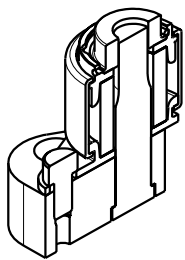
# 1101 - STARK STRIPPERS PER PORTA PUNZONI A TESTA CILINDRICA ISO 8020



## TESTA CILINDRICA / HEADED PUNCHES / ZYLINDRISCHEM KOPF / TÊTE CYLINDRIQUE

| MODEL     | Ø PUNCH | Ø A | Ø B  | Ø C  | D  | E    | F            |           |           |            | G    | H    | I  | L | M      | Ø N  | MAX STROKE | EXTRACTION FORCE daN |      |
|-----------|---------|-----|------|------|----|------|--------------|-----------|-----------|------------|------|------|----|---|--------|------|------------|----------------------|------|
|           |         |     |      |      |    |      | Pun. L=70/71 | Pun. L=80 | Pun. L=90 | Pun. L=100 |      |      |    |   |        |      |            | F0                   | F1   |
| 1101.0010 | 10      | 16  | 25   | 33   | 37 | 40.5 | 47           | 56        | 66        | 76         | 51.5 | 33   | 12 | 9 | 26.925 | 10.1 | 8          | 20                   | 135  |
| 1101.0013 | 13      | 20  | 34   | 42   | 37 | 41   | 47           | 56        | 66        | 76         | 59   | 42   | 12 | 9 | 30     | 13.1 | 8          | 25                   | 230  |
| 1101.0016 | 16      | 25  | 39   | 47.5 | 37 | 41   | 47           | 56        | 66        | 76         | 63.5 | 47.5 | 12 | 9 | 31.75  | 16.1 | 8          | 40                   | 300  |
| 1101.0020 | 20      | 35  | 45.5 | 53   | 37 | 41.5 | 47           | 56        | 66        | 76         | 68   | 53   | 12 | 9 | 33.5   | 20.1 | 8          | 90                   | 750  |
| 1101.0025 | 25      | 44  | 57.5 | 67   | 37 | 42   | 47           | 56        | 66        | 76         | 82   | 67   | 12 | 9 | 40.65  | 25.1 | 8          | 90                   | 1000 |
| 1101.0032 | 32      | 44  | 57.5 | 67   | 37 | 42   | 47           | 56        | 66        | 76         | 82   | 67   | 12 | 9 | 40.65  | 32.1 | 8          | 120                  | 800  |
| 1101.0040 | 40      | 48  | 65   | 73.5 | 37 | 42.5 | 47           | 56        | 66        | 76         | 88.5 | 73.5 | 12 | 9 | 44     | 40.1 | 8          | 100                  | 700  |

## COMBINAZIONI D'ORDINE STARK-STRIP + TESTINE / ORDER SCHEMES STARK-STRIP + HEADS MÖGLICHE BESTELLKOMBINATIONEN STARK-STRIP + KÖPFE / COMBINAISONS D'ORDRE STARK-STRIP + TÊTES



| Ø  | PUNCH'S LENGTH |                                   |                                   |                                   |                                   |
|----|----------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
|    | 70/71          | 80                                | 90                                | 100                               |                                   |
| 10 | 1101.0010 +    | 8058.1010.002 (STANDARD STRIPPER) | 8058.1020.002 (STANDARD STRIPPER) | 8058.1030.002 (STANDARD STRIPPER) | 8058.1040.002 (STANDARD STRIPPER) |
|    |                | 8058.1020.001 (LONG STRIPPER)     | 8058.1030.001 (LONG STRIPPER)     | 8058.1040.001 (LONG STRIPPER)     | 8058.1050.001 (LONG STRIPPER)     |
| 13 | 1101.0013 +    | 8058.1310.002 (STANDARD STRIPPER) | 8058.1320.002 (STANDARD STRIPPER) | 8058.1330.002 (STANDARD STRIPPER) | 8058.1340.002 (STANDARD STRIPPER) |
|    |                | 8058.1320.001 (LONG STRIPPER)     | 8058.1330.001 (LONG STRIPPER)     | 8058.1340.001 (LONG STRIPPER)     | 8058.1350.001 (LONG STRIPPER)     |
| 16 | 1101.0016 +    | 8058.1610.002 (STANDARD STRIPPER) | 8058.1620.002 (STANDARD STRIPPER) | 8058.1630.002 (STANDARD STRIPPER) | 8058.1640.002 (STANDARD STRIPPER) |
|    |                | 8058.1620.001 (LONG STRIPPER)     | 8058.1630.001 (LONG STRIPPER)     | 8058.1640.001 (LONG STRIPPER)     | 8058.1650.001 (LONG STRIPPER)     |
| 20 | 1101.0020 +    | 8058.2010.002 (STANDARD STRIPPER) | 8058.2020.002 (STANDARD STRIPPER) | 8058.2030.002 (STANDARD STRIPPER) | 8058.2040.002 (STANDARD STRIPPER) |
|    |                | 8058.2020.001 (LONG STRIPPER)     | 8058.2030.001 (LONG STRIPPER)     | 8058.2040.001 (LONG STRIPPER)     | 8058.2050.001 (LONG STRIPPER)     |
| 25 | 1101.0025 +    | 8058.2510.002 (STANDARD STRIPPER) | 8058.2520.002 (STANDARD STRIPPER) | 8058.2530.002 (STANDARD STRIPPER) | 8058.2540.002 (STANDARD STRIPPER) |
|    |                | 8058.2520.001 (LONG STRIPPER)     | 8058.2530.001 (LONG STRIPPER)     | 8058.2540.001 (LONG STRIPPER)     | 8058.2550.001 (LONG STRIPPER)     |
| 32 | 1101.0032 +    | 8058.3210.002 (STANDARD STRIPPER) | 8058.3220.002 (STANDARD STRIPPER) | 8058.3230.002 (STANDARD STRIPPER) | 8058.3240.002 (STANDARD STRIPPER) |
|    |                | 8058.3220.001 (LONG STRIPPER)     | 8058.3230.001 (LONG STRIPPER)     | 8058.3240.001 (LONG STRIPPER)     | 8058.3250.001 (LONG STRIPPER)     |
| 40 | 1101.0040 +    | 8058.4010.002 (STANDARD STRIPPER) | 8058.4020.002 (STANDARD STRIPPER) | 8058.4030.002 (STANDARD STRIPPER) | 8058.4040.002 (STANDARD STRIPPER) |
|    |                | 8058.4020.001 (LONG STRIPPER)     | 8058.4030.001 (LONG STRIPPER)     | 8058.4040.001 (LONG STRIPPER)     | 8058.4050.001 (LONG STRIPPER)     |

Per le lavorazioni della testina premilamiera vedere la pagina dedicata "8058 - PREMILAMIERA"

For the machining of the blank holder, see the dedicated page "8058 - BLANK HOLDER" / Für die Vorfärbearbeitung siehe die spezielle Seite "8058 - BLECHPRESSPLATTE".

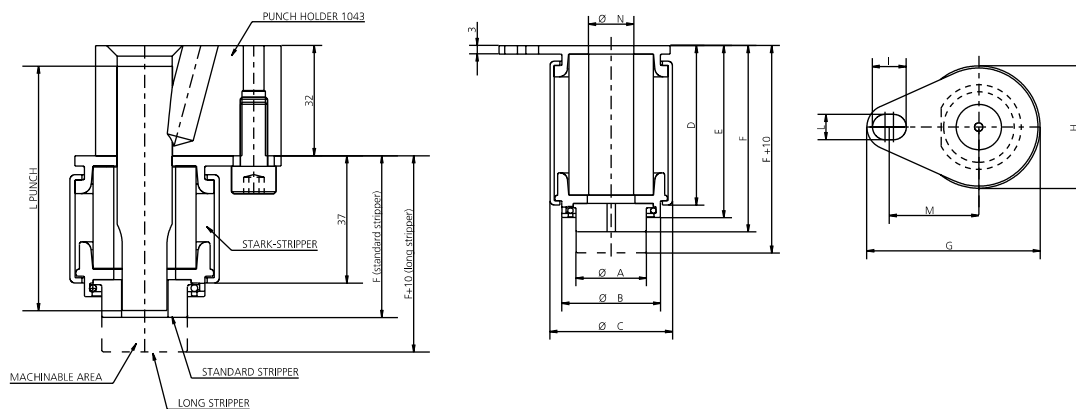
ESEMPIO DI ORDINE: / ORDER EXAMPLE: / BESTELLBEISPIEL:

Punzone Ø16 lunghezza 80: Stark stripper 1101.0016 + 8058.1630.002 (se necessarie specificare le lavorazioni come descritto alla pagina dedicata "8058 - PREMILAMIERA")

Punch Ø16 length 80: Stark stripper 1101.0016 + 8058.1630.002 (if necessary, specify the machining as described on the dedicated page "8058 - BLANK HOLDER")

Stempel Ø16 Länge 80: Stark Abstreifer 1101.0016 + 8058.1630.002 (ggf. Bearbeitung angeben, wie auf der entsprechenden Seite "8058 - BLECHPRESSPLATTE" beschrieben)



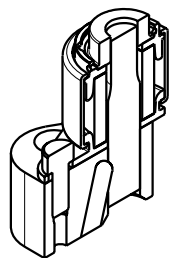


**BALLOCK LIGHT DUTY**

| MODEL     | Ø PUNCH | Ø A | Ø B  | Ø C  | D  | E    | F            |           |           |            | G    | H    | I  | L | M      | Ø N  | MAX STROKE | EXTRACTION FORCE daN |      |
|-----------|---------|-----|------|------|----|------|--------------|-----------|-----------|------------|------|------|----|---|--------|------|------------|----------------------|------|
|           |         |     |      |      |    |      | Pun. L=70/71 | Pun. L=80 | Pun. L=90 | Pun. L=100 |      |      |    |   |        |      |            | F0                   | F1   |
| 1101.0010 | 10      | 16  | 25   | 33   | 37 | 40.5 | 47           | 56        | 66        | 76         | 51.5 | 33   | 12 | 9 | 26.925 | 10.1 | 8          | 20                   | 135  |
| 1101.0013 | 13      | 20  | 34   | 42   | 37 | 41   | 47           | 56        | 66        | 76         | 59   | 42   | 12 | 9 | 30     | 13.1 | 8          | 25                   | 230  |
| 1101.0016 | 16      | 25  | 39   | 47.5 | 37 | 41   | 47           | 56        | 66        | 76         | 63.5 | 47.5 | 12 | 9 | 31.75  | 16.1 | 8          | 40                   | 300  |
| 1101.0020 | 20      | 35  | 45.5 | 53   | 37 | 41.5 | 47           | 56        | 66        | 76         | 68   | 53   | 12 | 9 | 33.5   | 20.1 | 8          | 90                   | 750  |
| 1101.0025 | 25      | 44  | 57.5 | 67   | 37 | 42   | 47           | 56        | 66        | 76         | 82   | 67   | 12 | 9 | 40.65  | 25.1 | 8          | 90                   | 1000 |
| 1101.0032 | 32      | 44  | 57.5 | 67   | 37 | 42   | 47           | 56        | 66        | 76         | 82   | 67   | 12 | 9 | 40.65  | 32.1 | 8          | 120                  | 800  |
| 1101.0040 | 40      | 48  | 65   | 73.5 | 37 | 42.5 | 47           | 56        | 66        | 76         | 88.5 | 73.5 | 12 | 9 | 44     | 40.1 | 8          | 100                  | 700  |

**COMBINAZIONI D'ORDINE STARK-STRIP + TESTINE / ORDER SCHEMES STARK-STRIP + HEADS**  
**MÖGLICHE BESTELLKOMBINATIONEN STARK-STRIP + KÖPFE / COMBINAISONS D'ORDRE STARK-STRIP + TÊTES**

| Ø  | PUNCH'S LENGTH                                |                                   |                                   |                                   |
|----|---|-----------------------------------|-----------------------------------|-----------------------------------|
|    | 70/71   | 80                                | 90                                | 100                               |
| 10 | 1101.0010 + 8058.1010.002 (STANDARD STRIPPER) | 8058.1020.002 (STANDARD STRIPPER) | 8058.1030.002 (STANDARD STRIPPER) | 8058.1040.002 (STANDARD STRIPPER) |
|    | 8058.1020.001 (LONG STRIPPER)                 | 8058.1030.001 (LONG STRIPPER)     | 8058.1040.001 (LONG STRIPPER)     | 8058.1050.001 (LONG STRIPPER)     |
| 13 | 1101.0013 + 8058.1310.002 (STANDARD STRIPPER) | 8058.1320.002 (STANDARD STRIPPER) | 8058.1330.002 (STANDARD STRIPPER) | 8058.1340.002 (STANDARD STRIPPER) |
|    | 8058.1320.001 (LONG STRIPPER)                 | 8058.1330.001 (LONG STRIPPER)     | 8058.1340.001 (LONG STRIPPER)     | 8058.1350.001 (LONG STRIPPER)     |
| 16 | 1101.0016 + 8058.1610.002 (STANDARD STRIPPER) | 8058.1620.002 (STANDARD STRIPPER) | 8058.1630.002 (STANDARD STRIPPER) | 8058.1640.002 (STANDARD STRIPPER) |
|    | 8058.1620.001 (LONG STRIPPER)                 | 8058.1630.001 (LONG STRIPPER)     | 8058.1640.001 (LONG STRIPPER)     | 8058.1650.001 (LONG STRIPPER)     |
| 20 | 1101.0020 + 8058.2010.002 (STANDARD STRIPPER) | 8058.2020.002 (STANDARD STRIPPER) | 8058.2030.002 (STANDARD STRIPPER) | 8058.2040.002 (STANDARD STRIPPER) |
|    | 8058.2020.001 (LONG STRIPPER)                 | 8058.2030.001 (LONG STRIPPER)     | 8058.2040.001 (LONG STRIPPER)     | 8058.2050.001 (LONG STRIPPER)     |
| 25 | 1101.0025 + 8058.2510.002 (STANDARD STRIPPER) | 8058.2520.002 (STANDARD STRIPPER) | 8058.2530.002 (STANDARD STRIPPER) | 8058.2540.002 (STANDARD STRIPPER) |
|    | 8058.2520.001 (LONG STRIPPER)                 | 8058.2530.001 (LONG STRIPPER)     | 8058.2540.001 (LONG STRIPPER)     | 8058.2550.001 (LONG STRIPPER)     |
| 32 | 1101.0032 + 8058.3210.002 (STANDARD STRIPPER) | 8058.3220.002 (STANDARD STRIPPER) | 8058.3230.002 (STANDARD STRIPPER) | 8058.3240.002 (STANDARD STRIPPER) |
|    | 8058.3220.001 (LONG STRIPPER)                 | 8058.3230.001 (LONG STRIPPER)     | 8058.3240.001 (LONG STRIPPER)     | 8058.3250.001 (LONG STRIPPER)     |
| 40 | 1101.0040 + 8058.4010.002 (STANDARD STRIPPER) | 8058.4020.002 (STANDARD STRIPPER) | 8058.4030.002 (STANDARD STRIPPER) | 8058.4040.002 (STANDARD STRIPPER) |
|    | 8058.4020.001 (LONG STRIPPER)                 | 8058.4030.001 (LONG STRIPPER)     | 8058.4040.001 (LONG STRIPPER)     | 8058.4050.001 (LONG STRIPPER)     |



Per le lavorazioni della testina premilamiera vedere la pagina dedicata "8058 - PREMILAMIERA"  
 For the machining of the blank holder, see the dedicated page "8058 - BLANK HOLDER" / Für die Vorfräsbearbeitung siehe die spezielle Seite "8058 - BLECHPRESSPLATTE".

ESEMPIO DI ORDINE: / ORDER EXAMPLE: / BESTELLBEISPIEL:

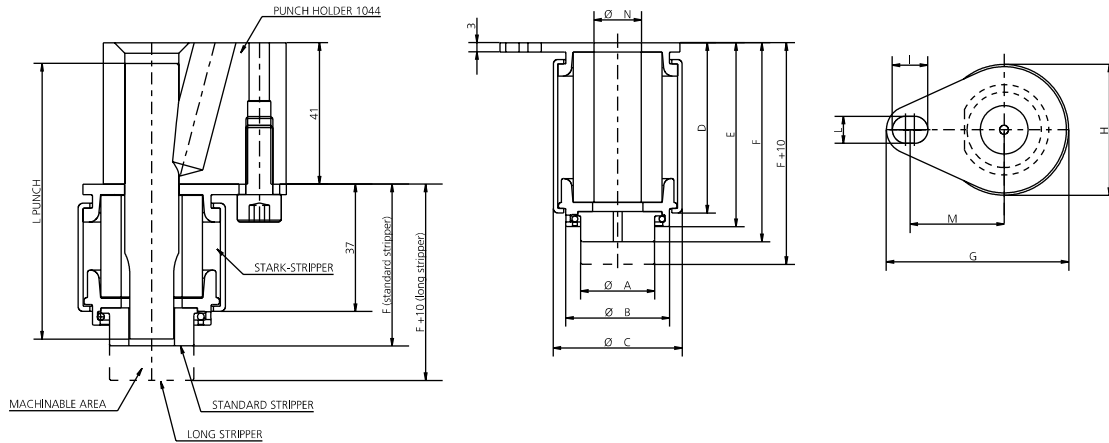
Punzone Ø20 lunghezza 100: Stark stripper 1101.0020 + 8058.2040.002 (se necessarie specificare le lavorazioni come descritto alla pagina dedicata "8058 - PREMILAMIERA")

Punch Ø20 length 100: Stark stripper 1101.0020 + 8058.2040.002 (if necessary, specify the machining as described on the dedicated page "8058 - BLANK HOLDER")

Stempel Ø20 Länge 100: Stark Abstreifer 1101.0020 + 8058.1240.002 (ggf. Bearbeitung angeben, wie auf der entsprechenden Seite "8058 - BLECHPRESSPLATTE" beschrieben)



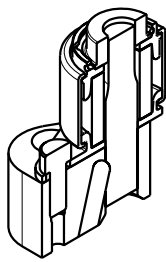
# 1101 - STARK STRIPPERS PER PORTA PUNZONI BALLOCK HEAVY DUTY



## BALLOCK HEAVY DUTY

| MODEL     | Ø PUNCH | Ø A | Ø B  | Ø C  | D  | E    | F            |           |           |            | G    | H    | I  | F0 | F1     |      |   |     |      |
|-----------|---------|-----|------|------|----|------|--------------|-----------|-----------|------------|------|------|----|----|--------|------|---|-----|------|
|           |         |     |      |      |    |      | Pun. L=70/71 | Pun. L=80 | Pun. L=90 | Pun. L=100 |      |      |    |    |        |      |   |     |      |
| 1101.0010 | 10      | 16  | 25   | 33   | 37 | 40.5 | 47           | 56        | 66        | 76         | 51.5 | 33   | 12 | 9  | 26.925 | 10.1 | 8 | 20  | 135  |
| 1101.0013 | 13      | 20  | 34   | 42   | 37 | 41   | 47           | 56        | 66        | 76         | 59   | 42   | 12 | 9  | 30     | 13.1 | 8 | 25  | 230  |
| 1101.0016 | 16      | 25  | 39   | 47.5 | 37 | 41   | 47           | 56        | 66        | 76         | 63.5 | 47.5 | 12 | 9  | 31.75  | 16.1 | 8 | 40  | 300  |
| 1101.0020 | 20      | 35  | 45.5 | 53   | 37 | 41.5 | 47           | 56        | 66        | 76         | 68   | 53   | 12 | 9  | 33.5   | 20.1 | 8 | 90  | 750  |
| 1101.0025 | 25      | 44  | 57.5 | 67   | 37 | 42   | 47           | 56        | 66        | 76         | 82   | 67   | 12 | 9  | 40.65  | 25.1 | 8 | 90  | 1000 |
| 1101.0032 | 32      | 44  | 57.5 | 67   | 37 | 42   | 47           | 56        | 66        | 76         | 82   | 67   | 12 | 9  | 40.65  | 32.1 | 8 | 120 | 800  |
| 1101.0040 | 40      | 48  | 65   | 73.5 | 37 | 42.5 | 47           | 56        | 66        | 76         | 88.5 | 73.5 | 12 | 9  | 44     | 40.1 | 8 | 100 | 700  |

## COMBINAZIONI D'ORDINE STARK-STRIP + TESTINE / ORDER SCHEMES STARK-STRIP + HEADS MÖGLICHE BESTELLKOMBINATIONEN STARK-STRIP + KÖPFE / COMBINAISONS D'ORDRE STARK-STRIP + TÊTES



| Ø  |             | PUNCH'S LENGTH                    |                                   |                                   |
|----|-------------|-----------------------------------|-----------------------------------|-----------------------------------|
|    |             | 80                                | 90                                | 100                               |
| 10 | 1101.0010 + | 8058.1010.002 (STANDARD STRIPPER) | 8058.1020.002 (STANDARD STRIPPER) | 8058.1030.002 (STANDARD STRIPPER) |
|    |             | 8058.1020.001 (LONG STRIPPER)     | 8058.1030.001 (LONG STRIPPER)     | 8058.1040.001 (LONG STRIPPER)     |
| 13 | 1101.0013 + | 8058.1310.002 (STANDARD STRIPPER) | 8058.1320.002 (STANDARD STRIPPER) | 8058.1330.002 (STANDARD STRIPPER) |
|    |             | 8058.1320.001 (LONG STRIPPER)     | 8058.1330.001 (LONG STRIPPER)     | 8058.1340.001 (LONG STRIPPER)     |
| 16 | 1101.0016 + | 8058.1610.002 (STANDARD STRIPPER) | 8058.1620.002 (STANDARD STRIPPER) | 8058.1630.002 (STANDARD STRIPPER) |
|    |             | 8058.1620.001 (LONG STRIPPER)     | 8058.1630.001 (LONG STRIPPER)     | 8058.1640.001 (LONG STRIPPER)     |
| 20 | 1101.0020 + | 8058.2010.002 (STANDARD STRIPPER) | 8058.2020.002 (STANDARD STRIPPER) | 8058.2030.002 (STANDARD STRIPPER) |
|    |             | 8058.2020.001 (LONG STRIPPER)     | 8058.2030.001 (LONG STRIPPER)     | 8058.2040.001 (LONG STRIPPER)     |
| 25 | 1101.0025 + | 8058.2510.002 (STANDARD STRIPPER) | 8058.2520.002 (STANDARD STRIPPER) | 8058.2530.002 (STANDARD STRIPPER) |
|    |             | 8058.2520.001 (LONG STRIPPER)     | 8058.2530.001 (LONG STRIPPER)     | 8058.2540.001 (LONG STRIPPER)     |
| 32 | 1101.0032 + | 8058.3210.002 (STANDARD STRIPPER) | 8058.3220.002 (STANDARD STRIPPER) | 8058.3230.002 (STANDARD STRIPPER) |
|    |             | 8058.3220.001 (LONG STRIPPER)     | 8058.3230.001 (LONG STRIPPER)     | 8058.3240.001 (LONG STRIPPER)     |
| 40 | 1101.0040 + | 8058.4010.002 (STANDARD STRIPPER) | 8058.4020.002 (STANDARD STRIPPER) | 8058.4030.002 (STANDARD STRIPPER) |
|    |             | 8058.4020.001 (LONG STRIPPER)     | 8058.4030.001 (LONG STRIPPER)     | 8058.4040.001 (LONG STRIPPER)     |

Per le lavorazioni della testina premilamiera vedere la pagina dedicata "8058 - PREMILAMIERA"

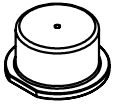
For the machining of the blank holder, see the dedicated page "8058 - BLANK HOLDER" / Für die Vorfräsbearbeitung siehe die spezielle Seite "8058 - BLECHPRESSPLATTE".

ESEMPIO DI ORDINE: / ORDER EXAMPLE: / BESTELLBEISPIEL:

Punzone Ø13 lunghezza 90: Stark stripper 1101.0013 + 8058.1320.002 (se necessarie specificare le lavorazioni come descritto alla pagina dedicata "8058 - PREMILAMIERA")

Punch Ø13 length 90: Stark stripper 1101.0013 + 8058.1320.002 (if necessary, specify the machining as described on the dedicated page "8058 - BLANK HOLDER")

Stempel Ø13 Länge 90: Stark Abstreifer 1101.0013 + 8058.1320.002 (ggf. Bearbeitung angeben, wie auf der entsprechenden Seite "8058 - BLECHPRESSPLATTE" beschrieben)



8058..... : Testina premilamiera sbazzata / Blank head / Rohling blechhalterkopf (vedi codici nelle pagine precedenti / see codes on previous pages / siehe Codes auf den vorherigen Seiten)



00T : Testina premilamiera con foratura tonda / Blank holder head with round hole / Rohlingshalterkopf mit rundem Loch (shape X)



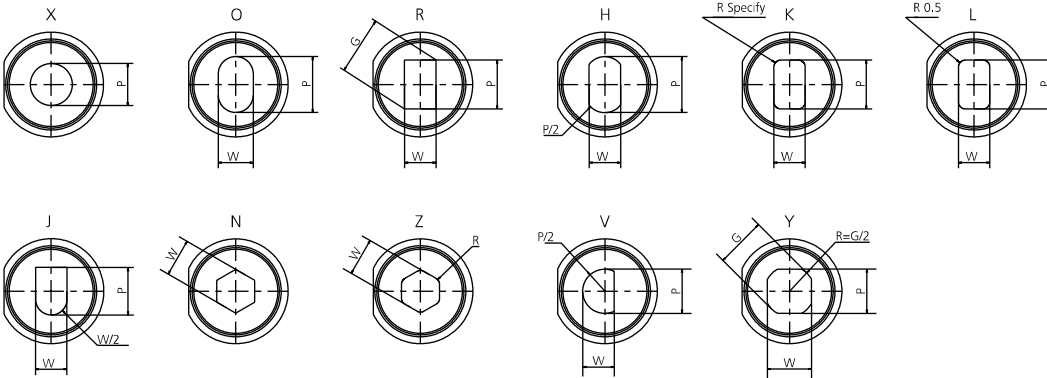
00S : Testina premilamiera con foratura sagomata / Blank holder head with shaped hole / Rohlingshalterkopf mit geformtem Loch (shape O-R-H-K-L-J-N-Z-V-Y or special shape)



00T3D : Testina premilamiera con foratura tonda (shape X) e lavorazione 3D / Blank holder head with round drilling (shape X) and 3D machining / Rohlingshalterkopf mit Rundbohrung und 3D-Bearbeitung

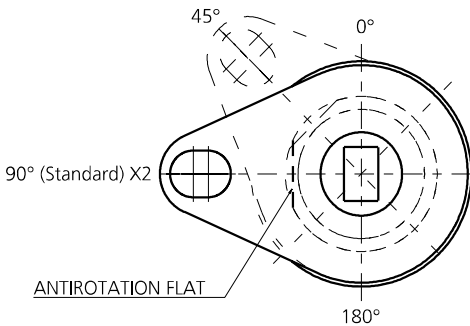


00S3D : Testina premilamiera con foratura sagomata (shape O-R-H-K-L-J-N-Z-V-Y or special shape) e lavorazione 3D / Blank holder head with shaped hole and 3D machining / Rohlingshalterkopf mit geformtem Loch und 3D-Bearbeitung



In fase di ordine specificare le misure P/W/R della lavorazione sul premilamiera, non del punzone.  
When ordering, specify the P/W/R measurements of the machining on the blank holder, not of the punch.  
Geben Sie bei der Bestellung die P/W/R-Maße des Werkstücks am Niederhalter an, nicht die des Stempels.

In caso di sagome speciali e lavorazioni 3D è necessario un file del cliente per eseguire le lavorazioni.  
In the case of special shapes and 3D machining, a customer file is required to perform the machining.  
Bei Sonderformen und 3D-Bearbeitungen ist eine Kundendatei erforderlich, um die Bearbeitung durchzuführen.



Specificare l'angolo per la lavorazione  
Specify the angle for machining  
Winkel für die Bearbeitung angeben

**ESEMPIO DI ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL:**

1. Punzone ISO 8020 Ø25 lunghezza 80 con premilamiera sbazzato standard / Punch ISO 8020 Ø25 length 80 with standard blank holder  
Stanzen Sie ISO 8020 Ø25 Länge 80 mit Standard-Blechhalter: 1101.0025 + 8058.2520.002
2. Punzone ISO 8020 Ø25 lunghezza 80 con premilamiera sbazzato lungo / Punch ISO 8020 Ø25 length 80 with long blank holder  
Stanzen Sie ISO 8020 Ø25 Länge 80 mit langem Niederhalter: 1101.0025 + 8058.2530.001
3. Punzone ISO 8020 Ø25 lunghezza 80 con premilamiera sagoma "O" standard / Punch ISO 8020 Ø25 length 80 with standard "O" shape blank holder  
Stanzen Sie ISO 8020 Ø25, Länge 80, mit Standard-Blechhalter in „O“-Form: 1101.0025 + 8058.250.002 (00S shape "O" P=22 W=15 X2)



# 8061.00\_\_\_ - MASCHERA PER LAVORAZIONE DELLA TESTINA

JIG FOR MACHINING THE STRIPPER HEAD / BAUTEIL FÜR KOPFBEARBEITUNG / GABARIT POUR USINAGE DE LA TÊTE

## SMONTAGGIO / DISASSEMBLY / DEMONTAGE / DÉMONTAGE



### ATTENZIONE

- Per sagomare la testina:
- rimuoverla dallo stripper;
  - inserirla nel dispositivo;
  - avvitare la ghiera di bloccaggio;
  - posizionare il dispositivo su macchina utensile, elettroerosione o stampo per eseguire la sagoma richiesta;
  - rimontare la testina.

### ATTENTION

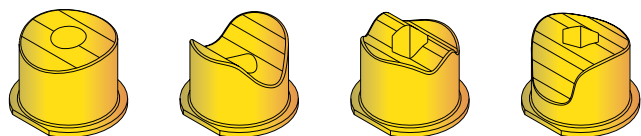
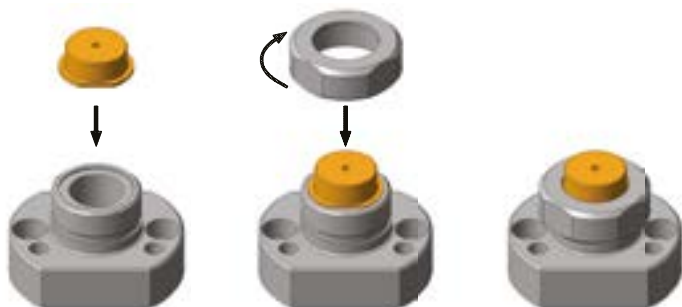
- Pour façonner la tête:
- l'enlever du stripper;
  - l'insérer dans le dispositif;
  - visser la bague de verrouillage;
  - positionner le dispositif sur la machine-outil; l'électroérosion ou l'outil de découpe pour réaliser le gabarit demandé;
  - remonter la tête.

### ATTENTION

- In order to shape the head:
- remove it from the stripper;
  - insert the head into the special device;
  - tighten the locking ring nut;
  - place the device on the machine staim, EDM or tool plate to perform the required shape;
  - put back together the head with the body.

### ACHTUNG

- Zum Profilieren bitte folgenden Schritten folgen:
- den Kopf vom Stripper entfernen;
  - den Kopf in die Vorrichtung einsetzen;
  - den Verriegelungsring festschrauben;
  - die Vorrichtung in die Werkzeugmaschine einbauen, Elektroerosion oder Werkzeug zum Profilieren;
  - den Kopf einbauen.



Esempi di testine speciali. / Examples of special heads.  
 Beispiel von besonderen Blechhaltern. / Exemples de têtes spéciales.

| MODEL     | Ø PUNCH |
|-----------|---------|
| 8061.0010 | 10      |
| 8061.0013 | 13      |
| 8061.0016 | 16      |
| 8061.0020 | 20      |
| 8061.0025 | 25      |
| 8061.0032 | 32      |
| 8061.0040 | 40      |

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **8061** DIAMETER PUNCH **0010**



# STARK STRIPPERS

STARK STRIPPERS / STARK STRIPPERS / STARK STRIPPERS



# ROLL

UNITÀ DI PIEGA / BENDING UNITS / ROLLBIEGER  
UNITÉ DE PLIAGE





## ROLL

UNITÀ DI PIEGA / BENDING UNITS / ROLLBIEGER / UNITÉ DE PLIAGE

- IT** Accessorio che permette di eseguire la piegatura e calibratura in contemporanea della lamiera o acciaio. Permette inoltre di eseguire svariati tipi di piegature quali piega in sottosquadra (con angolazioni inferiori ai 90°), aperta (superiori ai 90°), ad ampio raggio mantenendo la tolleranza richiesta nell'angolazione. Esegue inoltre pieghe a "Z" aperte, doppia piega, ecc. Il sistema è composto da un rotante precedentemente sagomato a seconda delle applicazioni desiderate. Il prodotto è costruito con materiali molto tenaci e resistenti all'usura e compressione, temprati e trattati in superficie in modo tale da diminuire considerevolmente gli attriti. La tolleranza generale di piegatura è di  $\pm 0,5^\circ$ . Il prodotto è brevettato.
- EN** Device that allows simultaneous calibration and bending of metal sheet or steel. It also allows the execution of many different types of folds, such as undersquare folds (with an angulation less than 90 °), open folds (greater than 90 °), large radius, maintaining requested tolerance angulation. Also performs "Z" open folds, doublefold etc. The system consists of a rotating previously shaped according to required applications. The product is built with very strong materials, wear and compression resistant, hardened and surface treated in order to considerably reduce friction. The general tolerance of bending is  $\pm 0,5^\circ$ . The product is patented.
- DE** Rollbieger, der gleichzeitig die Biegung und die Verformung von Blechen erlaubt. Er ermöglicht außerdem auch andere Biegeformen wie das Überbiegen (mit Winkeln unter 90°), geöffnetes Biegen (über 90°), mit weitem Radius, innerhalb der angeforderten Toleranz. Er ermöglicht auch geöffnetes "Z" Biegen und "U" Biegen möglich. Das System besteht aus einem vorher definierten Drehteil. Der Rollbieger wird oberflächenbehandelt, was die Reibung sehr stark vermindert. Die allgemeine Biegetoleranz beträgt  $\pm 0,5^\circ$ . Das Produkt ist patentiert.
- FR** Accessoire qui permet le pliage et le calibrage simultanés de la tôle ou de l'acier. Il permet également de réaliser différents types de pliage tels que des contre-dépouilles (avec des angles inférieurs à 90°), des pliages ouverts (supérieurs à 90°), des pliages à grand rayon tout en conservant la tolérance requise dans l'angle. Il effectue également des pliages en "Z" ouverts, des doubles pliages, etc. Le système est constitué d'une roue rotative préalablement façonnée en fonction des applications souhaitées. Le produit est fabriqué à partir de matériaux très résistants à l'usure et à la compression, trempés et traités en surface de manière à réduire considérablement les frottements. La tolérance générale de pliage est de  $\pm 0,5^\circ$ . Le produit est breveté.



PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE



# ROLL

SCEGLIERE LA PROPRIA APPLICAZIONE / PLEASE DESCRIBE YOUR APPLICATION  
 BITTE BESCHREIBEN SIE IHRE ANWENDUNG / CHOISIR L'APPLICATION

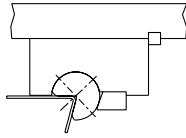
MODELLO / MODEL / MODELL  
 MODÈLE

01 = ROLLA  02 = ROLLB  03 = ROLLC  04 = ROLLD  05 = ROLLE

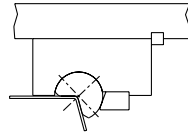
DIAMETRO / DIAMETER / DURCHMESSER  
 DIAMÈTRE

Ø15  Ø25  Ø40  Ø50  Ø65  Ø75  Ø100

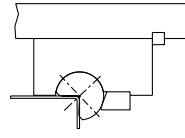
TIPO DI PIEGA / TYPE OF BEND / TYP FÜR BIEGUNG / TYPE DE PLIAGE



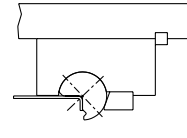
01 = TD  
 PIEGA SOTTOSQUADRA  
 ANGLE BEND / ÜBERBIEGUNG  
 PLIAGE CONTRE-DÉPOUILLE



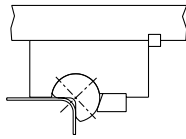
02 = TE  
 PIEGA APERTA  
 OPENED BEND / OFFENE BIEGUNG  
 PLIAGE OUVERT



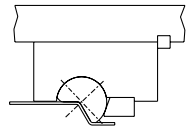
03 = TI  
 PIEGA NORMALE  
 NORMAL BEND / NORMALE BIEGUNG  
 PLIAGE NORMAL



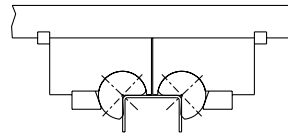
04 = TA  
 PIEGA CON BORDO CORTO  
 BEND WITH SHORT EDGE / BIEGUNG  
 MIT KURZEM SCHENKEL / PLIAGE À  
 BORD COURT



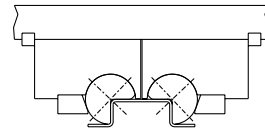
05 = TB  
 PIEGA AD AMPIO RAGGIO  
 BEND WITH WIDE RADIUS / BIEGUNG  
 MIT WEITEM RADIUS / PLIAGE À  
 LARGE RAYON



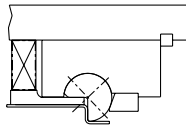
06 = TH  
 PIEGA A "Z" APERTA  
 OPENED "Z" BEND / OFFENE "Z"  
 BIEGUNG / PLIAGE EN "Z" OUVERT



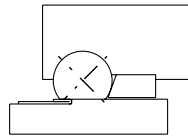
07 = TC  
 DOPPIA PIEGA  
 DOUBLE BEND / DOPPELTE BIEGUNG  
 DOUBLE PLIAGE



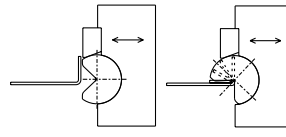
08 = TG  
 DOPPIA PIEGA APERTA A "Z"  
 DOUBLE OPENED "Z" BEND  
 DOPPELTE "Z" BIEGUNG  
 DOUBLE PLIAGE OUVERT EN "Z"



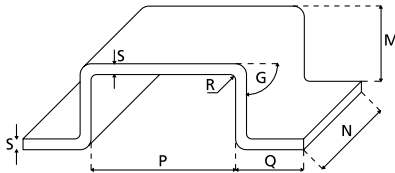
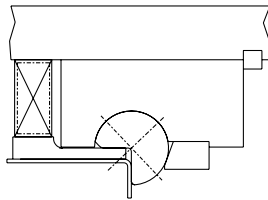
09 = TF  
 PIEGA A "Z"  
 "Z" BEND / "Z" BIEGUNG  
 PLIAGE EN "Z"



10 = TL  
 PIEGA SCHIACCIATA  
 CRUSHED BEND / FALTUNG  
 PLIAGE ÉCRASÉ



11  
 PIEGA SCHIACCIATA CON CAM  
 CRUSHED BEND WITH CAM  
 FALTUNG MIT SCHIEBER  
 PLIAGE ÉCRASÉ AVEC CAM



PREMILAMIERA / BLANK HOLDER / BLECHHALTER / SERRE-FLAN

SI / YES / YA / OUI

NO / NO / NEIN / NON

NOTE / NOTES

PRODUZIONE PREVISTA ANNUA

EXPECTED YEARLY PRODUCTION / ERWARTETE PRODUKTION PRODUKTION STÜCKZAHLEN PRO JAHR

PRODUCTION ANNUELLE PRÉVUE

SPESSORE S / THICKNESS S / DICKE S / ÉPAISSEUR S

TIPO DI MATERIALE / TYPE OF MATERIAL / MATERIAL BEZEICHNUNG / TYPE DE MATÉRIAU

DUREZZA / HARDNESS / HÄRTE ZUGFESTIGKEIT / DURETÉ N/mm<sup>2</sup>

TIPO DI PIEGA / TYPE OF BEND / TYP FÜR BIEGUNG / TYPE DE PLIAGE

LUNGHEZZA N / LENGTH N / LÄNGE / LONGUEUR N

ANGOLAZIONE G / ANGULATION G / WINKEL / ANGLE G

ALTEZZA M / HEIGHT M / HÖHE / HAUTEUR M

LARGHEZZA P / WIDTH P / INNENMAß / LARGEUR P

LARGHEZZA Q / WIDTH Q / BREITE / LARGEUR Q

RAGGIO R / RADIUS R / RADIUS / RAYON R

ALLEGARE DISEGNO TECNICO DELLA PIEGA / ATTACH TECHNICAL DRAWING OF THE BEND / IM FALL EINER BESTELLUNG SENDEN SIE UNS EINE  
 SKIZZE ODER TEILEZEICHNUNG / JOINDRE DESSIN TECHNIQUE DU PLIAGE

PER RICAMBI INDICARE LA COMMESSA MARCHIATA SUL PRODOTTO

FOR SPARE PARTS INDICATE THE PROJECT NUMBER MARKED ON THE PRODUCT / BEI ERSATZTEILEN KENNZEICHNEN SIE DIE PROJEKTNUMMER AUF DEM PRODUKT  
 POUR LES PIÈCES DE RECHANGE INDIQUER LA COMMANDE MARQUÉE SUR LE PRODUIT

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL 0201

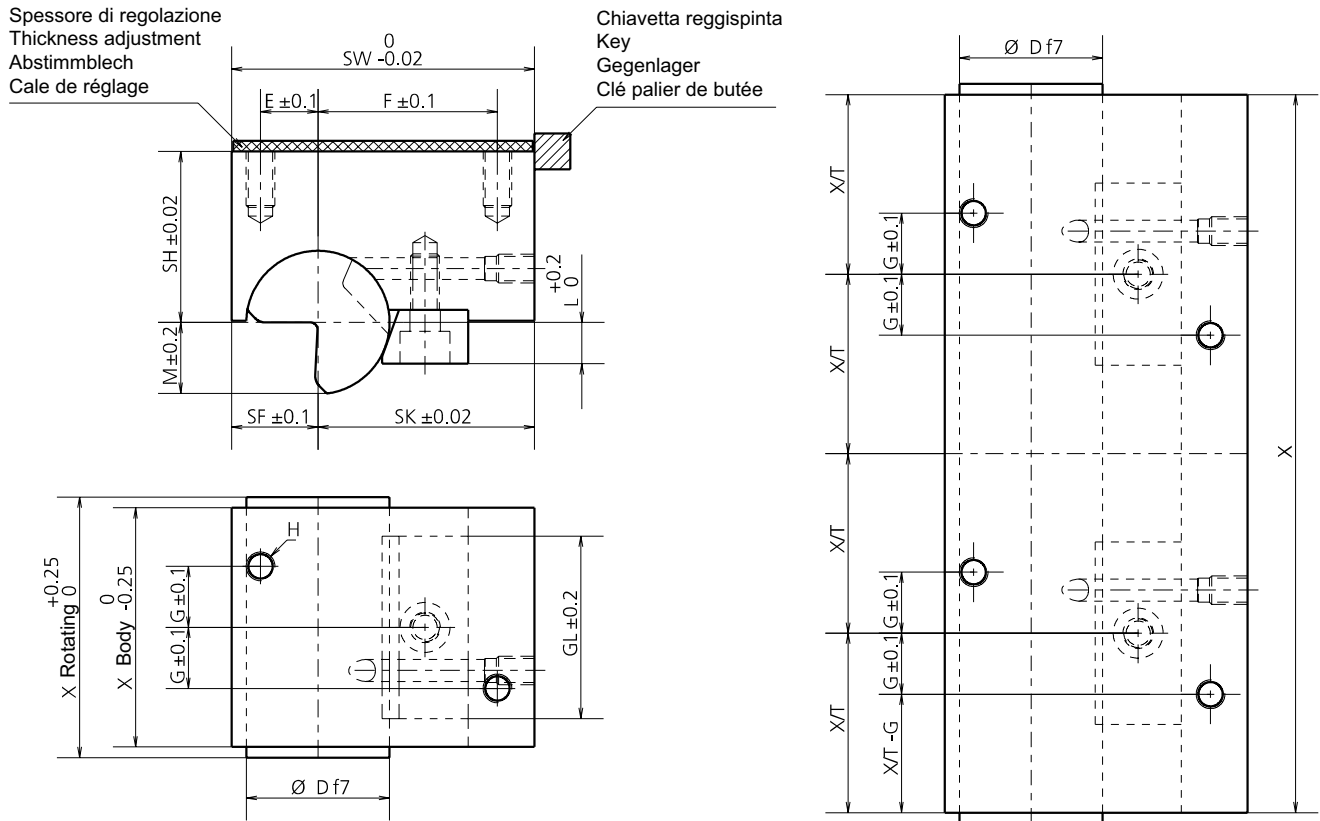
TYPE BEND 03

Ø DIAMETER Ø50

LENGHT 500

ANGLE 90°





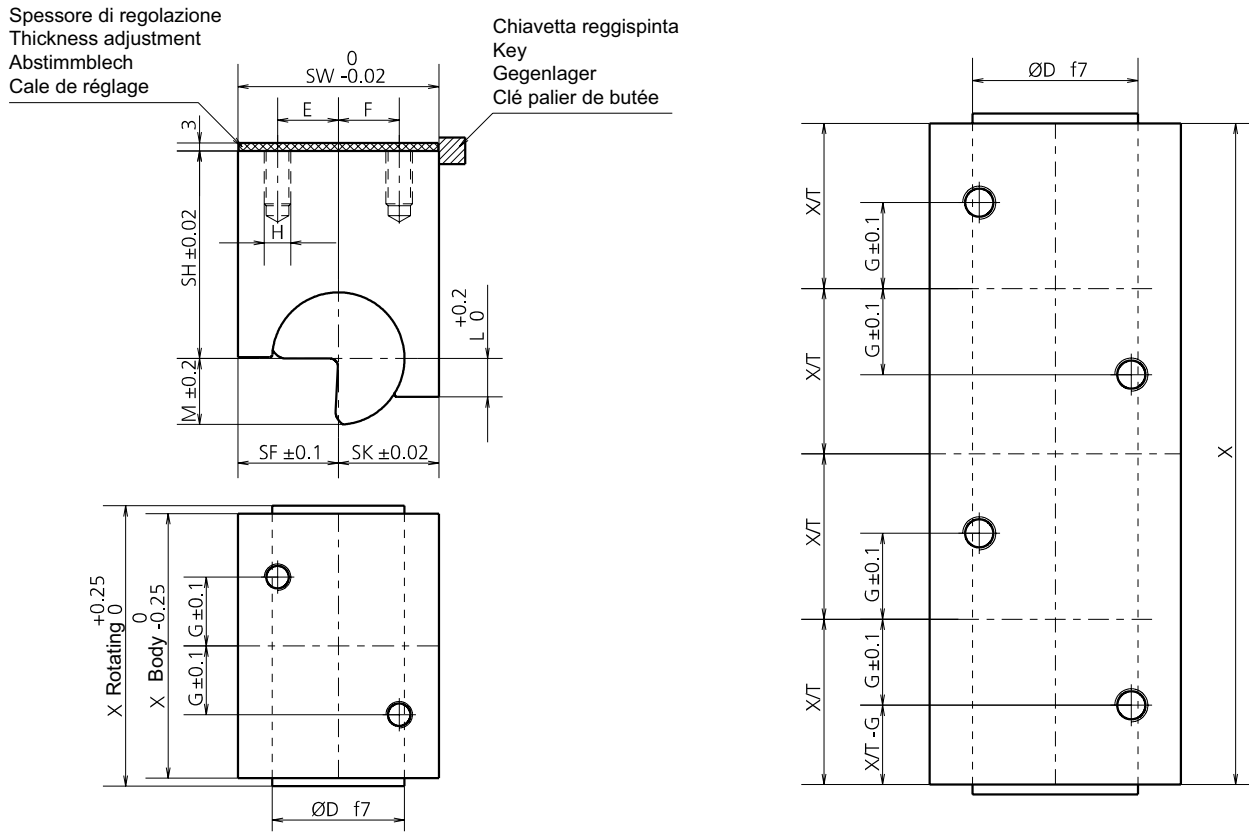
| MODEL              | X       | X/T | BRACKET | X       | X/T | BRACKET | X       | X/T | BRACKET | X       | X/T  | BRACKET | X       | X/T  | BRACKET | G    | E   | F    |
|--------------------|---------|-----|---------|---------|-----|---------|---------|-----|---------|---------|------|---------|---------|------|---------|------|-----|------|
| <b>0202....15</b>  | 77-150  | X/4 | 2       | 152-225 | X/6 | 3       | 227-300 | X/8 | 4       | 302-375 | X/10 | 5       | 377-420 | X/12 | 6       | 14.5 | 4.5 | 29.5 |
| <b>0202....25</b>  | 102-200 | X/4 | 2       | 202-300 | X/6 | 3       | 302-400 | X/8 | 4       | 402-500 | X/10 | 5       | 502-600 | X/12 | 6       | 17.5 | 7.5 | 37.5 |
| <b>0202....40</b>  | 132-260 | X/4 | 2       | 262-390 | X/6 | 3       | 392-520 | X/8 | 4       | 522-600 | X/10 | 5       | /       | /    | /       | 22   | 15  | 48   |
| <b>0202....50</b>  | 152-300 | X/4 | 2       | 302-450 | X/6 | 3       | 452-600 | X/8 | 4       | /       | /    | /       | /       | /    | /       | 26   | 19  | 65   |
| <b>0202....65</b>  | 182-360 | X/4 | 2       | 362-540 | X/6 | 3       | 542-600 | X/8 | 4       | /       | /    | /       | /       | /    | /       | 32   | 25  | 80   |
| <b>0202....75</b>  | 202-400 | X/4 | 2       | 402-600 | X/6 | 3       | /       | /   | /       | /       | /    | /       | /       | /    | /       | 35   | 32  | 90   |
| <b>0202....100</b> | 241-480 | X/4 | 2       | 482-600 | X/6 | 3       | /       | /   | /       | /       | /    | /       | /       | /    | /       | 45   | 46  | 104  |

|  | <b>0202....15</b> | <b>0202....25</b> | <b>0202....40</b> | <b>0202....50</b> | <b>0202....65</b> | <b>0202....75</b> | <b>0202....100</b> |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| SPESSORE LAMIERA / METAL SHEET THICKNESS / DICKE DES BLECHS                                    | 0.5-0.9           | 0.9-1.7           | 1.7-2.8           | 2.8-3.8           | 3.8-4.9           | 4.9-6.0           | 6.0-8.0            |
| (X) LUNGHEZZE / LENGTHS / LÄNGEN MIN-MAX   | 25-420            | 30-600            | 35-600            | 45-600            | 50-600            | 50-600            | 60-600             |
| (D) DIAMETRO ROTANTE / ROTATING DIAMETER / Ø BIEGEEINSATZ                                      | 15                | 25                | 40                | 50                | 65                | 75                | 100                |
| (SW) LARGHEZZA CORPO / BODY WIDTH / BREITE DES GRUNDKÖRPERS                                    | 44                | 59                | 84                | 106               | 131               | 149               | 178                |
| (SF) DIST. MIN. ROTANTE-FRONTA / DIST. MIN. ROTATING BODY-FRONT PART / ABSTAND MIN. DREHKÖRPER | 9                 | 14                | 26                | 30                | 39                | 44                | 60                 |
| (SK) DIST. ROTANTE-CHIAVETTA / DIST. ROTATING BODY - WEDGE / ABSTAND DREHKÖRPER                | 35                | 45                | 58                | 76                | 92                | 105               | 118                |
| (SH) DIST. ROTANTE-BASE - DIST. BODY-ROTATING BODY / ABSTAND DREHKÖRPER-GRUNDKÖRPER            | 22                | 35                | 48                | 60                | 73                | 86                | 96                 |
| (GL) LARGHEZZA SUPPORTO / SUPPORT WIDTH / BREITE HALTER  | 28.6              | 38.1              | 50.8              | 63.5              | 76.2              | 88.9              | 116                |
| (L) INGOMBRO SUPPORTO / HOLDER OVERALL / HÖHE HALTER   | 5.4               | 8.2               | 12                | 16.35             | 20                | 24                | 30                 |
| (M) INGOMBRO / HOLDER / HALTER   | 7.9               | 12.4              | 19.9              | 24.8              | 31.6              | 38                | 49.7               |
| (H) DIAMETRI FISSAGGI / DIAMETERS OF THE FIXING / BEFESTIGUNGSDURCHMESSER                      | M5                | M8                | M10               | M10               | M12               | M12               | M16                |
| (E) POSIZIONE DEI FISSAGGI / POSITION OF THE FIXING / BEFESTIGUNGSPPOSITION                    | 4.5               | 7.5               | 15                | 19                | 25                | 32                | 46                 |
| (F) POSIZIONE DEI FISSAGGI / POSITION OF THE FIXING / BEFESTIGUNGSPPOSITION                    | 29.5              | 37.5              | 48                | 65                | 80                | 90                | 104                |
| (G) POSIZIONE DEI FISSAGGI / POSITION OF THE FIXING / BEFESTIGUNGSPPOSITION                    | 14.5              | 17.5              | 22                | 26                | 32                | 35                | 45                 |

Può lavorare anche senza lubrificazione / It works also without lubrication / Es funktioniert auch ohne Schmierung / Il peut fonctionner sans lubrification

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0202** TYPE BEND **03** Ø DIAMETER **Ø50** LENGTH **500** ANGLE **90°**



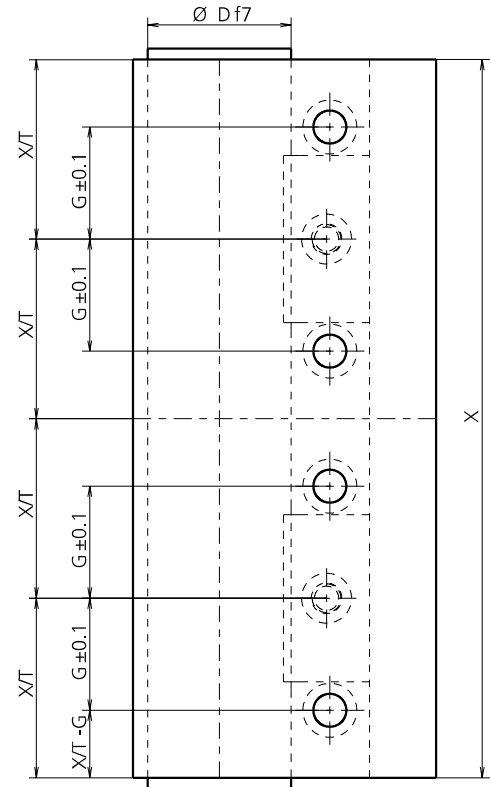
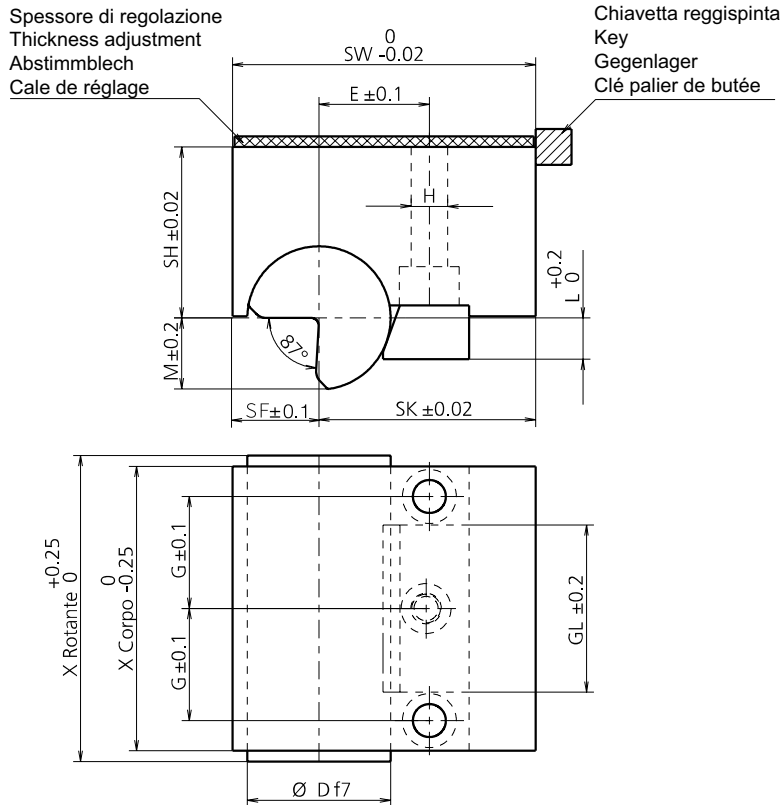
| MODEL       | X       | X/T | X       | X/T | X       | X/T | X       | X/T  | X       | X/T  | G  | E   | F   |
|-------------|---------|-----|---------|-----|---------|-----|---------|------|---------|------|----|-----|-----|
| 0203....15  | 77-150  | X/4 | 152-225 | X/6 | 227-300 | X/8 | 302-375 | X/10 | 377-420 | X/12 | 12 | 7.5 | 7.5 |
| 0203....25  | 102-200 | X/4 | 202-300 | X/6 | 302-400 | X/8 | 402-500 | X/10 | 502-600 | X/12 | 16 | 10  | 10  |
| 0203....40  | 132-260 | X/4 | 262-390 | X/6 | 392-520 | X/8 | 522-600 | X/10 | /       | /    | 18 | 18  | 18  |
| 0203....50  | 152-300 | X/4 | 302-450 | X/6 | 452-600 | X/8 | /       | /    | /       | /    | 30 | 23  | 23  |
| 0203....65  | 182-360 | X/4 | 362-540 | X/6 | 542-600 | X/8 | /       | /    | /       | /    | 37 | 30  | 30  |
| 0203....75  | 202-400 | X/4 | 402-600 | X/6 | /       | /   | /       | /    | /       | /    | 40 | 37  | 37  |
| 0203....100 | 241-480 | X/4 | 482-600 | X/6 | /       | /   | /       | /    | /       | /    | 42 | 51  | 51  |

|   | 0203....15 | 0203....25 | 0203....40 | 0203....50 | 0203....65 | 0203....75 | 0203....100 |
|---|------------|------------|------------|------------|------------|------------|-------------|
| SPESSORE LAMIERA / METAL SHEET THICKNESS / DICKE DES BLECHS                                   | 0.5-0.9    | 0.9-1.7    | 1.7-2.8    | 2.8-3.8    | 3.8-4.9    | 4.9-6.0    | 6.0-8.0     |
| (X) LUNGHEZZE / LENGTHS / LÄNGEN MIN-MAX  | 25-420     | 30-600     | 35-600     | 45-600     | 50-600     | 50-600     | 60-600      |
| (D) DIAMETRO ROTANTE / ROTATING DIAMETER / Ø BIEGEEINSATZ                                     | 15         | 25         | 40         | 50         | 65         | 75         | 100         |
| (SW) LARGHEZZA CORPO / BODY WIDTH / BREITE DES GRUNDKÖRPERS                                   | 25         | 38         | 56         | 76         | 95         | 105        | 140         |
| (SF) DIST. MIN. ROTANTE-FRONT / DIST. MIN. ROTATING BODY-FRONT PART / ABSTAND MIN. DREHKÖRPER | 12.5       | 19         | 28         | 38         | 47.5       | 52.5       | 70          |
| (SK) DIST. ROTANTE-CHIAVETTA / DIST. ROTATING BODY - WEDGE / ABSTAND DREHKÖRPER               | 12.5       | 19         | 28         | 38         | 47.5       | 52.5       | 70          |
| (SH) DIST. ROTANTE-BASE - DIST. BODY-ROTATING BODY / ABSTAND DREHKÖRPER-GRUNDKÖRPER           | 32.5       | 44         | 59.5       | 78.5       | 91.5       | 104        | 123.5       |
| (L) INGOMBRO SUPPORTO / HOLDER OVERALL / HOHE HALTER  | 4.3        | 7.5        | 11.5       | 14.5       | 19.5       | 23.5       | 29.5        |
| (M) INGOMBRO / HOLDER / HALTER  | 7.9        | 12.4       | 19.9       | 24.8       | 31.6       | 38         | 49.7        |
| (H) DIAMETRI FISSAGGI / DIAMETERS OF THE FIXING / BEFESTIGUNGSDURCHMESSER                     | M6         | M8         | M8         | M10        | M12        | M12        | M16         |
| (E) POSIZIONE DEI FISSAGGI / POSITION OF THE FIXING / BEFESTIGUNGSPPOSITION                   | 7.5        | 10         | 18         | 23         | 30         | 37         | 51          |
| (F) POSIZIONE DEI FISSAGGI / POSITION OF THE FIXING / BEFESTIGUNGSPPOSITION                   | 7.5        | 10         | 18         | 23         | 30         | 37         | 51          |
| (G) POSIZIONE DEI FISSAGGI / POSITION OF THE FIXING / BEFESTIGUNGSPPOSITION                   | 12         | 16         | 18         | 30         | 37         | 40         | 42          |

Può lavorare anche senza lubrificazione / It works also without lubrication / Es funktioniert auch ohne Schmierung / Il peut fonctionner sans lubrification

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0203** TYPE BEND **03** Ø DIAMETER **Ø50** LENGHT **500** ANGLE **90°**



| MODEL              | X       | X/T | BRACKET | X       | X/T | BRACKET | X       | X/T | BRACKET | X       | X/T  | BRACKET | X       | X/T  | BRACKET | G    | E  |
|--------------------|---------|-----|---------|---------|-----|---------|---------|-----|---------|---------|------|---------|---------|------|---------|------|----|
| <b>0204....15</b>  | 77-160  | X/4 | 2       | 162-225 | X/6 | 3       | 227-300 | X/8 | 4       | 302-375 | X/10 | 5       | 377-420 | X/12 | 6       | 20   | 16 |
| <b>0204....25</b>  | 102-210 | X/4 | 2       | 212-300 | X/6 | 3       | 302-400 | X/8 | 4       | 402-500 | X/10 | 5       | 502-600 | X/12 | 6       | 26.5 | 23 |
| <b>0204....40</b>  | 132-270 | X/4 | 2       | 272-390 | X/6 | 3       | 392-520 | X/8 | 4       | 522-600 | X/10 | 5       | /       | /    | /       | 35   | 33 |
| <b>0204....50</b>  | 152-320 | X/4 | 2       | 322-450 | X/6 | 3       | 452-600 | X/8 | 4       | /       | /    | /       | /       | /    | /       | 42   | 41 |
| <b>0204....65</b>  | 202-400 | X/4 | 2       | 402-550 | X/6 | 3       | 552-600 | X/8 | 4       | /       | /    | /       | /       | /    | /       | 52   | 52 |
| <b>0204....75</b>  | 212-450 | X/4 | 2       | 452-600 | X/6 | 3       | /       | /   | /       | /       | /    | /       | /       | /    | /       | 58   | 58 |
| <b>0204....100</b> | 260-550 | X/4 | 2       | 552-600 | X/6 | 3       | /       | /   | /       | /       | /    | /       | /       | /    | /       | 75   | 71 |

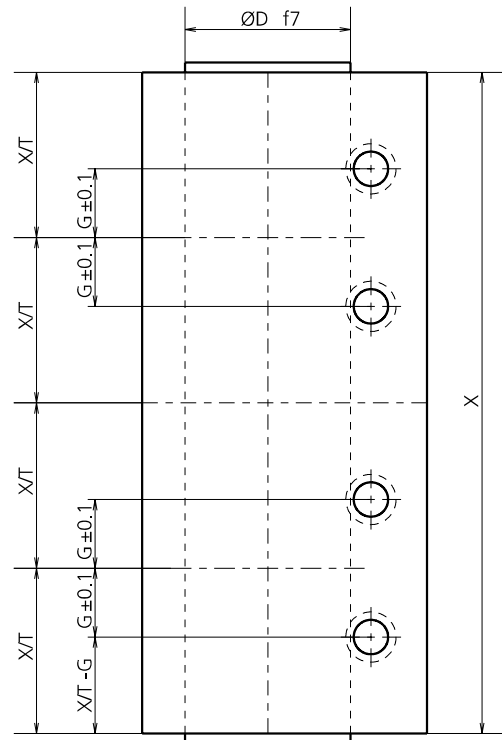
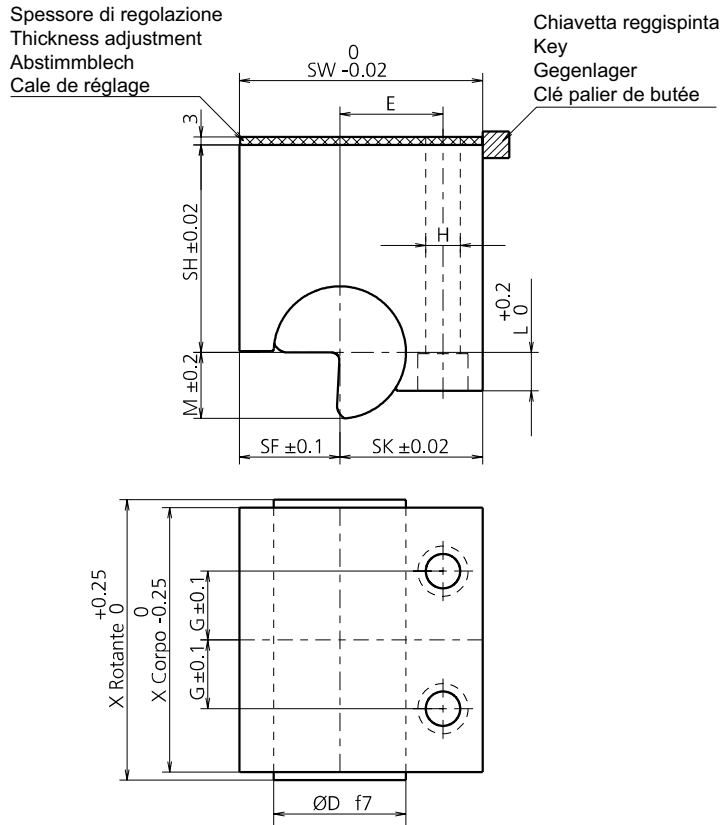
|   | <b>0204....15</b> | <b>0204....25</b> | <b>0204....40</b> | <b>0204....50</b> | <b>0204....65</b> | <b>0204....75</b> | <b>0204....100</b> |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| SPESORE LAMIERA / METAL SHEET THICKNESS / DICKE DES BLECHS                                    | 0.5-0.9           | 0.9-1.7           | 1.7-2.8           | 2.8-3.8           | 3.8-4.9           | 4.9-6.0           | 6.0-8.0            |
| LUNGHEZZE / LENGTHS / LÄNGEN MIN-MAX (X)  | 40-420            | 51-600            | 66-600            | 75-600            | 100-600           | 105-600           | 130-600            |
| DIAMETRO ROTANTE / ROTATING DIAMETER / Ø BIEGEEINSATZ (D)                                     | 15                | 25                | 40                | 50                | 65                | 75                | 100                |
| LARGHEZZA CORPO / BODY WIDTH / BREITE DES GRUNDKÖRPERS (SW)                                   | 44                | 59                | 84                | 106               | 131               | 149               | 178                |
| DIST. MIN. ROTANTE-FRONT / DIST. MIN. ROTATING BODY-FRONT PART / ABSTAND MIN. DREHKÖRPER (SF) | 9                 | 14                | 26                | 30                | 39                | 44                | 60                 |
| DIST. ROTANTE-CHIAVETTA / DIST. ROTATING BODY - WEDGE / ABSTAND DREHKÖRPER (SK)               | 35                | 45                | 58                | 76                | 92                | 105               | 118                |
| DIST. ROTANTE-BASE (SH) - DIST. BODY-ROTATING BODY / ABSTAND DREHKÖRPER-GRUNDKÖRPER           | 22                | 35                | 48                | 60                | 73                | 86                | 96                 |
| LARGHEZZA SUPPORTO (GL) / SUPPORT WIDTH / BREITE HALTER                                       | 28.6              | 38.1              | 50.8              | 63.5              | 76.2              | 88.9              | 116                |
| INGOMBRO SUPPORTO (L) / HOLDER OVERALL / HÖHE HALTER  | 5.4               | 8.2               | 12                | 16.35             | 20                | 24                | 30                 |
| INGOMBRO (M) / HOLDER / HALTER  | 7.9               | 12.4              | 19.9              | 24.8              | 31.6              | 38                | 49.7               |
| DIAMETRI FISSAGGI (H) / DIAMETERS OF THE FIXING / BEFESTIGUNGSDURCHMESSER                     | M6                | M8                | M10               | M12               | M16               | M16               | M20                |
| POSIZIONE DEI FISSAGGI (E) / POSITION OF THE FIXING / BEFESTIGUNGSPPOSITION                   | 16                | 23                | 33                | 41                | 52                | 58                | 71                 |

Può lavorare anche senza lubrificazione / It works also without lubrication / Es funktioniert auch ohne Schmierung / Il peut fonctionner sans lubrification

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0204** TYPE BEND **03** Ø DIAMETER **Ø50** LENGTH **500** ANGLE **90°**





| MODEL       | X       | X/T | X       | X/T | X       | X/T | X       | X/T  | G       | E    |      |      |
|-------------|---------|-----|---------|-----|---------|-----|---------|------|---------|------|------|------|
| 0205....15  | 77-150  | X/4 | 152-225 | X/6 | 227-300 | X/8 | 302-375 | X/10 | 377-420 | X/12 | 12.5 | 15.5 |
| 0205....25  | 102-200 | X/4 | 202-300 | X/6 | 302-400 | X/8 | 402-500 | X/10 | 502-600 | X/12 | 15   | 23   |
| 0205....40  | 132-260 | X/4 | 262-390 | X/6 | 392-520 | X/8 | 522-600 | X/10 | /       | /    | 17.5 | 33.5 |
| 0205....50  | 152-300 | X/4 | 302-450 | X/6 | 452-600 | X/8 | /       | /    | /       | /    | 22.5 | 40   |
| 0205....65  | 182-360 | X/4 | 362-540 | X/6 | 542-600 | X/8 | /       | /    | /       | /    | 27.5 | 53   |
| 0205....75  | 202-400 | X/4 | 402-600 | X/6 | /       | /   | /       | /    | /       | /    | 29   | 57.5 |
| 0205....100 | 241-480 | X/4 | 482-600 | X/6 | /       | /   | /       | /    | /       | /    | 40   | 74   |

|   | 0205....15 | 0205....25 | 0205....40 | 0205....50 | 0205....65 | 0205....75 | 0205....100 |
|---|------------|------------|------------|------------|------------|------------|-------------|
| SPESSORE LAMIERA / METAL SHEET THICKNESS / DICKE DES BLECHS                                   | 0.5-0.9    | 0.9-1.7    | 1.7-2.8    | 2.8-3.8    | 3.8-4.9    | 4.9-6.0    | 6.0-8.0     |
| LUNGHEZZE / LENGTHS / LÄNGEN MIN-MAX (X)  | 35-420     | 35-600     | 40-600     | 50-600     | 70-600     | 70-600     | 80-600      |
| DIAMETRO ROTANTE / ROTATING DIAMETER / Ø BIEGEEINSATZ (D)                                     | 15         | 25         | 40         | 50         | 65         | 75         | 100         |
| LARGHEZZA CORPO / BODY WIDTH / BREITE DES GRUNDKÖRPERS (SW)                                   | 36         | 53         | 74         | 92         | 120        | 130        | 166         |
| DIST. MIN. ROTANTE-FRONT / DIST. MIN. ROTATING BODY-FRONT PART / ABSTAND MIN. DREHKÖRPER (SF) | 12.5       | 19         | 28         | 38         | 47.5       | 52.5       | 70          |
| DIST. ROTANTE-CHIAVETTA / DIST. ROTATING BODY - WEDGE / ABSTAND DREHKÖRPER (SK)               | 23.5       | 34         | 46         | 54         | 72.5       | 77.5       | 96          |
| DIST. ROTANTE-BASE (SH) - DIST. BODY-ROTATING BODY / ABSTAND DREHKÖRPER-GRUNDKÖRPER           | 32.5       | 44         | 59.5       | 78.5       | 91.5       | 104        | 123.5       |
| INGOMBRO SUPPORTO (L) / HOLDER OVERALL / HÖHE HALTER  | 4.3        | 7.5        | 11.5       | 14.5       | 19.5       | 23.5       | 29.5        |
| INGOMBRO (M) / HOLDER / HALTER  | 7.9        | 12.4       | 19.9       | 24.8       | 31.6       | 38         | 49.7        |
| DIAMETRI FISSAGGI (H) / DIAMETERS OF THE FIXING / BEFESTIGUNGSDURCHMESSER                     | M6         | M8         | M10        | M12        | M16        | M16        | M20         |
| POSIZIONE DEI FISSAGGI (E) / POSITION OF THE FIXING / BEFESTIGUNGSPPOSITION                   | 15.5       | 23         | 33.5       | 40         | 53         | 57.5       | 74          |
| POSIZIONE DEI FISSAGGI (G) / POSITION OF THE FIXING / BEFESTIGUNGSPPOSITION                   | 12.5       | 15         | 17.5       | 22.5       | 27.5       | 29         | 40          |

Può lavorare anche senza lubrificazione / It works also without lubrication / Es funktioniert auch ohne Schmierung / Il peut fonctionner sans lubrification

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0205** TYPE BEND **03** Ø DIAMETER **Ø50** LENGHT **500** ANGLE **90°**



# PRESTAM PRESTAUTO SPECIAL UNITS

UNITÀ DI FORATURA E SAGOMATURA / THREAD FORMING UNITS  
GEWINDEPRAEGESTEMPEL / UNITÉ DE PERÇAGE ET FAÇONNAGE

# PRESTAM PRESTAUTO SPECIAL UNITS

UNITÀ DI FORATURA E SAGOMATURA / THREAD FORMING UNITS  
GEWINDEPRAEGESTEMPEL / UNITÉ DE PERÇAGE ET FAÇONNAGE

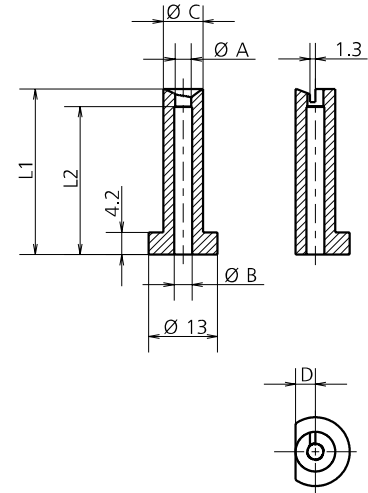
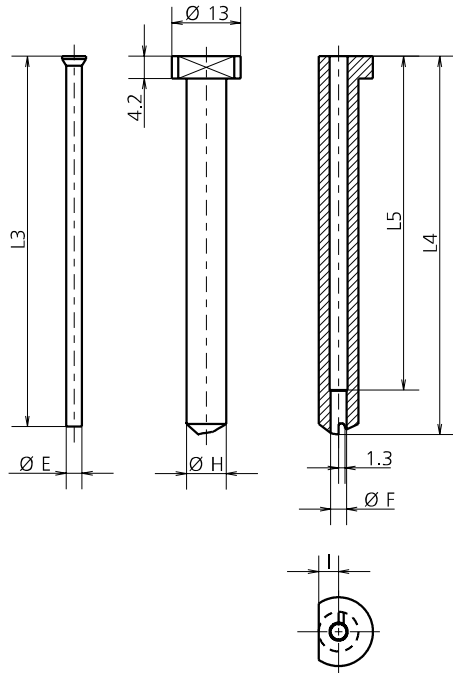


- IT** Sono unità di tranciatura e sagomatura della lamiera che permettono di realizzare la "spirale" o "chiocciola" nella lamiera stessa, tale da far avvitare viti autofilettanti evitando l'utilizzo del normale collarino realizzato mediante "punta chiodo", poco affidabile. La sagomatura speciale ottenuta tramite queste unità permette di aumentare la tenuta del filetto della vite. È possibile inoltre realizzare modelli speciali, costruiti su misura.
- EN** These units are used for shear and shape the metal sheet in order to realize the "twist" or "spiral" in the metal sheet itself, such that to tighten self-threading screws avoiding the use of standard collar made by "tip" end, which is unreliable. The special shape obtained by these units allows to enhance the tightness of the thread of the thread. It is also possible to manufacture special models, tailored according to the customer's drawings.
- DE** Die Einheiten lochen und prägen das Blech, wodurch eine "Spirale" oder ein "Verdrehung" ins Blech gebracht wird. Dadurch kann man selbstschneidende Schrauben verwenden, ohne den mit einem Stempel gemachten, üblichen und wenig zuverlässigen Bundring zu verwenden. Die durch die Gewindeprägestempel erhaltene Sonderform erlaubt, die Dichte im Bereich des geprägten Gewindes zu steigern. Es ist auch möglich, spezielle Modelle nach Maß herzustellen.
- FR** Il s'agit d'unités de découpage et de façonnage de la tôle qui permettent de faire la "spirale" ou la "vis sans fin" dans la tôle elle-même, de sorte que des vis autotaraudeuses peuvent être vissées en évitant l'utilisation du collier normal réalisé avec la "pointe du clou", qui n'est pas très fiable. La forme spéciale obtenue grâce à ces unités permet d'augmenter la tenue du filetage de la vis. Il est également possible de réaliser des modèles spéciaux, sur mesure.



PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE





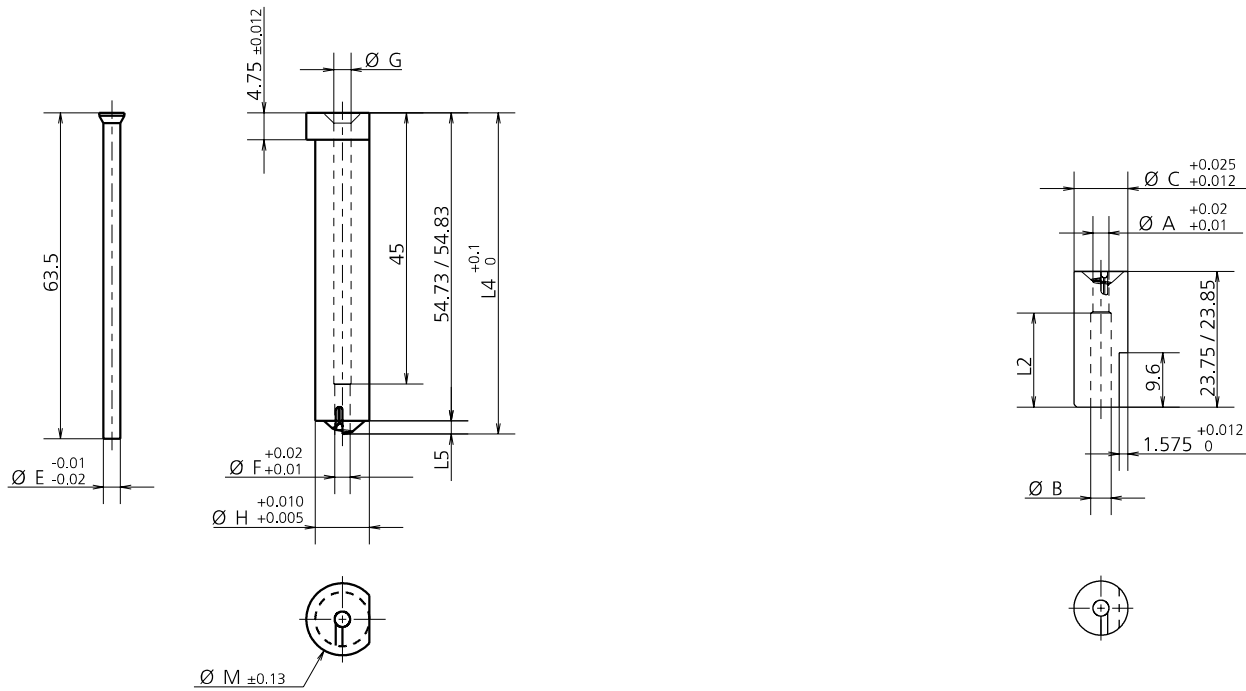
001 (8064) PUNZONE / PUNCH / LOCHER  
HSS-62HRC

002 (8053) MATRICE / MATRIX / MATRIX  
HSS-62HRC

| POS. | MODEL            | DESCRIPTION                                      | Ø SCREW | Ø A H7 | Ø B  | Ø Ch6 | D K6 | Ø E h6 | Ø FH7 | Ø H h6 | I K6 | L1   | L2 | L3   | L4   | L5 | MAX THICKNESS |
|------|------------------|--|---------|--------|------|-------|------|--------|-------|--------|------|------|----|------|------|----|---------------|
|      | <b>0301.0035</b> | UNITÀ / UNIT / PRESTAM B3.5                      | B3.5    | 2.75   | 3.2  | 7.5   | 3.75 | 2.7    | 2.7   | 7.5    | 3.75 | 31.3 | 28 | 74.5 | 71.5 | 60 | 0.6           |
| 001  | <b>8064.0135</b> | PUNZONE / PUNCH / LOCHER PRESTAM B3.5 + DIN 9861 | /       | /      | /    | /     | /    | 2.7    | 2.7   | 7.5    | 3.75 | /    | /  | 74.5 | 71.5 | 60 |               |
| 002  | <b>8053.0135</b> | MATRICE / MATRIX / MATRIX PRESTAM B3.5           | 2.75    | 3.2    | 7.5  | 3.75  | /    | /      | /     | /      | 31.3 | 28   | /  | /    | /    |    |               |
|      | <b>0301.0039</b> | UNITÀ / UNIT / PRESTAM B3.9                      | B3.9    | 3.05   | 3.4  | 7.5   | 3.75 | 3.0    | 3.0   | 7.5    | 3.75 | 31.3 | 28 | 74.5 | 71.5 | 60 | 0.6           |
| 001  | <b>8064.0139</b> | PUNZONE / PUNCH / LOCHER PRESTAM B3.9 + DIN 9861 | /       | /      | /    | /     | /    | 3.0    | 3.0   | 7.5    | 3.75 | /    | /  | 74.5 | 71.5 | 60 |               |
| 002  | <b>8053.0139</b> | MATRICE / MATRIX / MATRIX PRESTAM B3.9           | 3.05    | 3.4    | 7.5  | 3.75  | /    | /      | /     | /      | 31.3 | 28   | /  | /    | /    |    |               |
|      | <b>0301.0042</b> | UNITÀ / UNIT / PRESTAM B4.2                      | B4.2    | 3.15   | 3.5  | 8.5   | 4.25 | 3.1    | 3.1   | 8.0    | 4.0  | 31.3 | 28 | 74.5 | 71.5 | 60 | 0.8           |
| 001  | <b>8064.0142</b> | PUNZONE / PUNCH / LOCHER PRESTAM B4.2 + DIN 9861 | /       | /      | /    | /     | /    | 3.1    | 3.1   | 8.0    | 4.0  | /    | /  | 74.5 | 71.5 | 60 |               |
| 002  | <b>8053.0142</b> | MATRICE / MATRIX / MATRIX PRESTAM B4.2           | 3.15    | 3.5    | 8.5  | 4.25  | /    | /      | /     | /      | 31.3 | 28   | /  | /    | /    |    |               |
|      | <b>0301.0048</b> | UNITÀ / UNIT / PRESTAM B4.8                      | B4.8    | 3.85   | 4.2  | 9.0   | 4.50 | 3.8    | 3.8   | 8.0    | 4.0  | 31.3 | 28 | 74.5 | 71.5 | 60 | 0.9           |
| 001  | <b>8064.0148</b> | PUNZONE / PUNCH / LOCHER PRESTAM B4.8 + DIN 9861 | /       | /      | /    | /     | /    | 3.8    | 3.8   | 8.0    | 4.0  | /    | /  | 74.5 | 71.5 | 60 |               |
| 002  | <b>8053.0148</b> | MATRICE / MATRIX / MATRIX PRESTAM B4.8           | 3.85    | 4.2    | 9.0  | 4.50  | /    | /      | /     | /      | 31.3 | 28   | /  | /    | /    |    |               |
|      | <b>0301.0055</b> | UNITÀ / UNIT / PRESTAM B5.5                      | B5.5    | 4.35   | 4.8  | 9.0   | 4.50 | 4.3    | 4.3   | 8.0    | 4.0  | 31.3 | 28 | 74.5 | 71.5 | 60 | 1             |
| 001  | <b>8064.0155</b> | PUNZONE / PUNCH / LOCHER PRESTAM B5.5 + DIN 9861 | /       | /      | /    | /     | /    | 4.3    | 4.3   | 8.0    | 4.0  | /    | /  | 74.5 | 71.5 | 60 |               |
| 002  | <b>8053.0155</b> | MATRICE / MATRIX / MATRIX PRESTAM B5.5           | 4.35    | 4.8    | 9.0  | 4.50  | /    | /      | /     | /      | 31.3 | 28   | /  | /    | /    |    |               |
|      | <b>0301.0063</b> | UNITÀ / UNIT / PRESTAM B6.3                      | B6.3    | 4.85   | 5.3  | 10.5  | 5.25 | 4.8    | 4.8   | 10.0   | 5.0  | 31.3 | 28 | 74.5 | 71.5 | 60 | 1             |
| 001  | <b>8064.0163</b> | PUNZONE / PUNCH / LOCHER PRESTAM B6.3 + DIN 9861 | /       | /      | /    | /     | /    | 4.8    | 4.8   | 10.0   | 5.0  | /    | /  | 74.5 | 71.5 | 60 |               |
| 002  | <b>8053.0163</b> | MATRICE / MATRIX / MATRIX PRESTAM B6.3           | 4.85    | 5.3    | 10.5 | 5.25  | /    | /      | /     | /      | 31.3 | 28   | /  | /    | /    |    |               |

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0301** Ø DIAMETER **0035**



001 (8064) PUNZONE / PUNCH / LOCHER  
HSS-62HRC

002 (8053) MATRICE / MATRIX / MATRIX  
HSS-62HRC

| POS. | MODEL            | DESCRIPTION  | Ø SCREW | Ø A | Ø B | Ø C   | Ø E | Ø F | Ø G | Ø H   | Ø M  | L2   | L4    | L5   | MAX THICKNESS |
|------|------------------|--|---------|-----|-----|-------|-----|-----|-----|-------|------|------|-------|------|---------------|
|      | <b>0302.0035</b> | UNITÀ / UNIT / PRESTAUTO B3.5                      | B3.5    | 2.5 | 3.5 | 9.525 | 2.5 | 2.5 | 2.8 | 9.525 | 14.2 | 20   | 56.8  | 2    | 0.75          |
| 001  | <b>8064.0235</b> | PUNZONE / PUNCH / LOCHER PRESTAUTO B3.5 + DIN 9861 |         | /   | /   | /     | 2.5 | 2.5 | 2.8 | 9.525 | 14.2 | /    | 56.8  | 2    |               |
| 002  | <b>8053.0235</b> | MATRICE / MATRIX / MATRIX PRESTAUTO B3.5           |         | 2.5 | 3.5 | 9.525 | /   | /   | /   | /     | /    | 20   | /     | /    |               |
|      | <b>0302.0042</b> | UNITÀ / UNIT / PRESTAUTO B4.2                      | B4.2    | 2.9 | 3.9 | 12.7  | 2.9 | 2.9 | 3.2 | 12.7  | 17.3 | 19   | 57.45 | 2.65 | 1             |
| 001  | <b>8064.0242</b> | PUNZONE / PUNCH / LOCHER PRESTAUTO B4.2 + DIN 9861 |         | /   | /   | /     | 2.9 | 2.9 | 3.2 | 12.7  | 17.3 | /    | 57.45 | 2.65 |               |
| 002  | <b>8053.0242</b> | MATRICE / MATRIX / MATRIX PRESTAUTO B4.2           |         | 2.9 | 3.9 | 12.7  | /   | /   | /   | /     | /    | 19   | /     | /    |               |
|      | <b>0302.0048</b> | UNITÀ / UNIT / PRESTAUTO B4.8                      | B4.8    | 3.3 | 4.3 | 12.7  | 3.3 | 3.3 | 3.6 | 12.7  | 17.3 | 19   | 57.45 | 2.65 | 1.4           |
| 001  | <b>8064.0248</b> | PUNZONE / PUNCH / LOCHER PRESTAUTO B4.8 + DIN 9861 |         | /   | /   | /     | 3.3 | 3.3 | 3.6 | 12.7  | 17.3 | /    | 57.45 | 2.65 |               |
| 002  | <b>8053.0248</b> | MATRICE / MATRIX / MATRIX PRESTAUTO B4.8           |         | 3.3 | 4.3 | 12.7  | /   | /   | /   | /     | /    | 19   | /     | /    |               |
|      | <b>0302.0055</b> | UNITÀ / UNIT / PRESTAUTO B5.5                      | B5.5    | 3.9 | 4.9 | 15.87 | 3.9 | 3.9 | 4.2 | 15.87 | 22   | 18.5 | 58.1  | 3.3  | 1.4           |
| 001  | <b>8064.0255</b> | PUNZONE / PUNCH / LOCHER PRESTAUTO B5.5 + DIN 9861 |         | /   | /   | /     | 3.9 | 3.9 | 4.2 | 15.87 | 22   | /    | 58.1  | 3.3  |               |
| 002  | <b>8053.0255</b> | MATRICE / MATRIX / MATRIX PRESTAUTO B5.5           |         | 3.9 | 4.9 | 15.87 | /   | /   | /   | /     | /    | 19   | /     | /    |               |
|      | <b>0302.0063</b> | UNITÀ / UNIT / PRESTAUTO B6.3                      | B6.3    | 4.5 | 5.5 | 15.87 | 4.5 | 4.5 | 4.8 | 15.87 | 22   | 18.5 | 58.1  | 3.3  | 1.5           |
| 001  | <b>8064.0263</b> | PUNZONE / PUNCH / LOCHER PRESTAUTO B6.3 + DIN 9861 |         | /   | /   | /     | 4.5 | 4.5 | 4.8 | 15.87 | 22   | /    | 58.1  | 3.3  |               |
| 002  | <b>8053.0263</b> | MATRICE / MATRIX / MATRIX PRESTAUTO B6.3           |         | 4.5 | 5.5 | 15.87 | /   | /   | /   | /     | /    | 19   | /     | /    |               |
|      | <b>0302.0080</b> | UNITÀ / UNIT / PRESTAUTO B8                        | B8      | 5.8 | 7.1 | 20    | 5.8 | 5.8 | 6.1 | 20    | 25   | 17.5 | 59    | 4.2  | 1.7           |
| 001  | <b>8064.0280</b> | PUNZONE / PUNCH / LOCHER PRESTAUTO B8 + DIN 9861   |         | /   | /   | /     | 5.8 | 5.8 | 6.1 | 20    | 25   | /    | 59    | 4.2  |               |
| 002  | <b>8053.0280</b> | MATRICE / MATRIX / MATRIX PRESTAUTO B8             |         | 5.8 | 7.1 | 20    | /   | /   | /   | /     | /    | 18   | /     | /    |               |



# PILOTI

PILOT UNITS / PILOT EINHEITSPECIAL  
UNITÉS PILOTES





## PILOTI

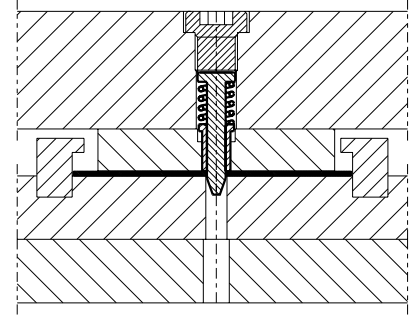
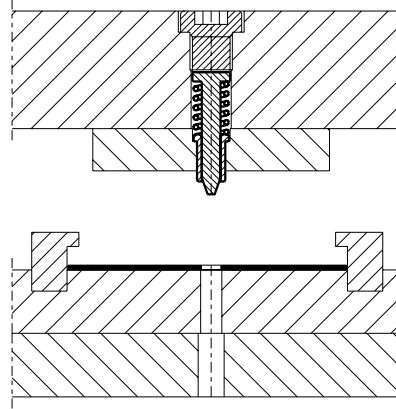
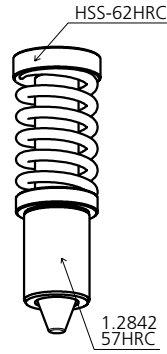
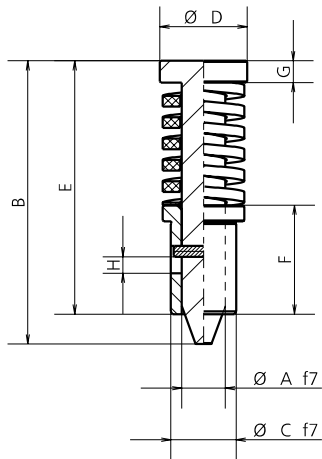
PILOT UNITS / PILOT EINHEITSPECIAL / PILOTES

- IT** Perno preciso dotato di estrattore che permette di centrare la lamiera attraverso fori precedentemente eseguiti.
- EN** Precise pin equipped with ejector that allows to balance the metal sheet by previously performed holes.
- DE** Präziser Stift, ausgerüstet mit einem Abstreifer, der zur Zentrierung des Bleches durch vorher ausgeführte Löcher dient.
- FR** Pivot précis équipé d'un extracteur qui permet de centrer la tôle à travers des trous préalablement percés.



PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE



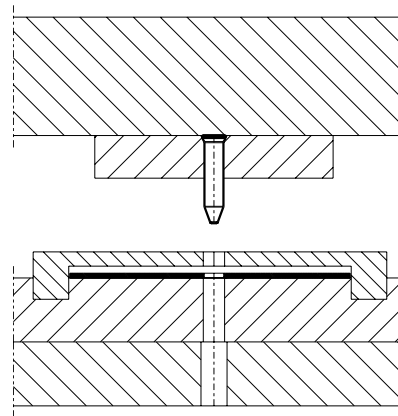
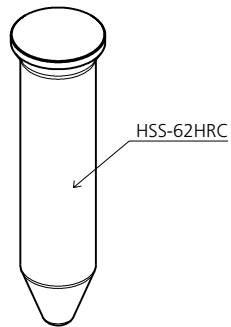
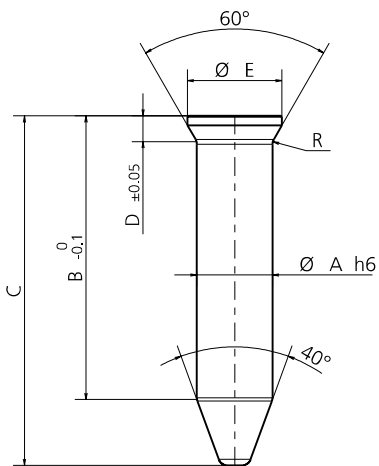


| MODEL     | F0 PRELOADED (N) | F1 PRESSED (N) | Ø A  | B    | Ø C | Ø D  | E    | F  | G | H   | STANDARD      |
|-----------|------------------|----------------|------|------|-----|------|------|----|---|-----|---------------|
| 1411.0536 | 25               | 70             | 5    | 36   | 8   | 11   | 34   | 8  | 3 | 4.5 |               |
| 1412.0536 | 40               | 112            | 5    | 36   | 8   | 11   | 34   | 8  | 3 | 4.5 |               |
| 1413.0536 | 55               | 155            | 5    | 36   | 8   | 11   | 34   | 8  | 3 | 4.5 |               |
| 1411.0540 | 25               | 70             | 5    | 40   | 8   | 11   | 38   | 12 | 3 | 4.5 |               |
| 1412.0540 | 40               | 112            | 5    | 40   | 8   | 11   | 38   | 12 | 3 | 4.5 |               |
| 1413.0540 | 55               | 155            | 5    | 40   | 8   | 11   | 38   | 12 | 3 | 4.5 |               |
| 1411.0544 | 25               | 70             | 5    | 44   | 8   | 11   | 42   | 16 | 3 | 4.5 |               |
| 1412.0544 | 40               | 112            | 5    | 44   | 8   | 11   | 42   | 16 | 3 | 4.5 |               |
| 1413.0544 | 55               | 155            | 5    | 44   | 8   | 11   | 42   | 16 | 3 | 4.5 |               |
| 1411.0645 | 45               | 125            | 6    | 45   | 10  | 12.5 | 40   | 16 | 3 | 4.5 |               |
| 1412.0645 | 75               | 210            | 6    | 45   | 10  | 12.5 | 40   | 16 | 3 | 4.5 |               |
| 1413.0645 | 105              | 295            | 6    | 45   | 10  | 12.5 | 40   | 16 | 3 | 4.5 |               |
| 1411.0649 | 45               | 125            | 6    | 49   | 10  | 12.5 | 44   | 20 | 3 | 4.5 |               |
| 1412.0649 | 75               | 210            | 6    | 49   | 10  | 12.5 | 44   | 20 | 3 | 4.5 |               |
| 1413.0649 | 105              | 295            | 6    | 49   | 10  | 12.5 | 44   | 20 | 3 | 4.5 |               |
| 1411.0848 | 58               | 164            | 8    | 48   | 12  | 16   | 41   | 16 | 4 | 4.5 |               |
| 1412.0848 | 123              | 346            | 8    | 48   | 12  | 16   | 41   | 16 | 4 | 4.5 |               |
| 1413.0848 | 189              | 530            | 8    | 48   | 12  | 16   | 41   | 16 | 4 | 4.5 |               |
| 1411.0852 | 58               | 164            | 8    | 52   | 12  | 16   | 45   | 20 | 4 | 4.5 |               |
| 1412.0852 | 123              | 346            | 8    | 52   | 12  | 16   | 45   | 20 | 4 | 4.5 |               |
| 1413.0852 | 189              | 530            | 8    | 52   | 12  | 16   | 45   | 20 | 4 | 4.5 |               |
| 1411.1054 | 140              | 391            | 10   | 54   | 15  | 20   | 46   | 20 | 5 | 4.5 |               |
| 1412.1054 | 245              | 686            | 10   | 54   | 15  | 20   | 46   | 20 | 5 | 4.5 |               |
| 1413.1054 | 540              | 1512           | 10   | 54   | 15  | 20   | 46   | 20 | 5 | 4.5 |               |
| 1411.1059 | 140              | 391            | 10   | 59   | 15  | 20   | 51   | 25 | 5 | 4.5 |               |
| 1412.1059 | 245              | 686            | 10   | 59   | 15  | 20   | 51   | 25 | 5 | 4.5 |               |
| 1413.1059 | 540              | 1512           | 10   | 59   | 15  | 20   | 51   | 25 | 5 | 4.5 |               |
| 1420.1063 | 49               | 62             | 9.8  | 63.2 | 15  | 18   | 53   | 28 | 4 | 3.5 | MERCEDES-BENZ |
| 1420.1362 | 48               | 56             | 12.8 | 62   | 23  | 21   | 51.5 | 28 | 4 | 3.5 |               |
| 1420.1672 | 48               | 56             | 15.8 | 72.5 | 26  | 24   | 60   | 28 | 4 | 3.5 | MERCEDES-BENZ |



MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1411.0540**

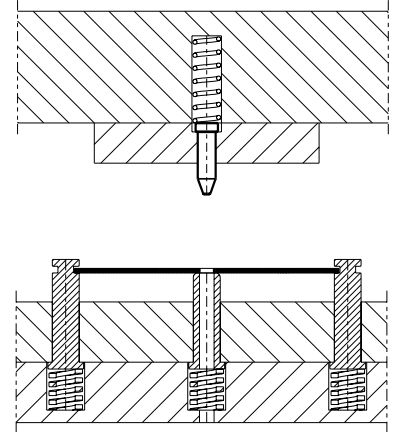
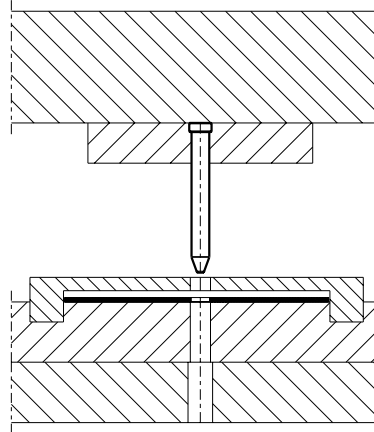
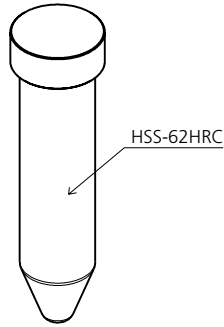
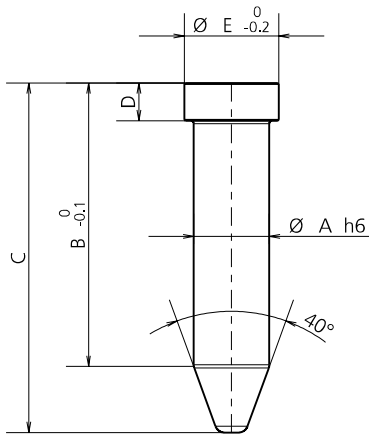


| MODEL     | Ø A | B  | C    | D    | Ø E | R   |
|-----------|-----|----|------|------|-----|-----|
| 141A.0312 | 3   | 12 | 15.5 | 1.8  | 4.5 | 0.5 |
| 141A.0320 | 3   | 20 | 23.5 | 1.8  | 4.5 | 0.5 |
| 141A.0330 | 3   | 30 | 33.5 | 1.8  | 4.5 | 0.5 |
| 141A.0370 | 3   | 70 | 73.5 | 1.8  | 4.5 | 0.5 |
| 141A.0412 | 4   | 12 | 16   | 1.8  | 5.5 | 0.5 |
| 141A.0420 | 4   | 20 | 24   | 1.8  | 5.5 | 0.5 |
| 141A.0430 | 4   | 30 | 34   | 1.8  | 5.5 | 0.5 |
| 141A.0470 | 4   | 70 | 74   | 1.8  | 5.5 | 0.5 |
| 141A.0612 | 6   | 12 | 17   | 2.23 | 8   | 1   |
| 141A.0620 | 6   | 20 | 25   | 2.23 | 8   | 1   |
| 141A.0630 | 6   | 30 | 35   | 2.23 | 8   | 1   |
| 141A.0670 | 6   | 70 | 75   | 2.23 | 8   | 1   |
| 141A.0820 | 8   | 20 | 27   | 2.73 | 10  | 1   |
| 141A.0830 | 8   | 30 | 37   | 2.73 | 10  | 1   |
| 141A.0840 | 8   | 40 | 47   | 2.73 | 10  | 1   |
| 141A.0880 | 8   | 80 | 84   | 2.73 | 10  | 1   |



# 141B - PILOTA

PILOT UNIT / PILOTEINHEIT / PILOTE



| MODEL     | Ø A | B  | C    | D | Ø E |
|-----------|-----|----|------|---|-----|
| 141B.0312 | 3   | 12 | 15.5 | 2 | 5   |
| 141B.0316 | 3   | 16 | 19.5 | 2 | 5   |
| 141B.0320 | 3   | 20 | 23.5 | 2 | 5   |
| 141B.0325 | 3   | 25 | 28.5 | 2 | 5   |
| 141B.0330 | 3   | 30 | 33.5 | 2 | 5   |
| 141B.0360 | 3   | 60 | 63.5 | 2 | 5   |
| 141B.0370 | 3   | 70 | 73.5 | 2 | 5   |
| 141B.0412 | 4   | 12 | 16   | 3 | 6   |
| 141B.0416 | 4   | 16 | 20   | 3 | 6   |
| 141B.0420 | 4   | 20 | 24   | 3 | 6   |
| 141B.0425 | 4   | 25 | 29   | 3 | 6   |
| 141B.0430 | 4   | 30 | 34   | 3 | 6   |
| 141B.0450 | 4   | 50 | 54   | 3 | 6   |
| 141B.0470 | 4   | 70 | 74   | 3 | 6   |
| 141B.0480 | 4   | 80 | 84   | 3 | 6   |
| 141B.0512 | 5   | 12 | 17   | 3 | 7   |
| 141B.0516 | 5   | 16 | 21   | 3 | 7   |
| 141B.0520 | 5   | 20 | 25   | 3 | 7   |
| 141B.0525 | 5   | 25 | 30   | 3 | 7   |
| 141B.0530 | 5   | 30 | 35   | 3 | 7   |
| 141B.0550 | 5   | 50 | 55   | 3 | 7   |
| 141B.0570 | 5   | 70 | 75   | 3 | 7   |
| 141B.0580 | 5   | 80 | 85   | 3 | 7   |
| 141B.0612 | 6   | 12 | 17   | 3 | 8   |
| 141B.0616 | 6   | 16 | 21   | 3 | 8   |
| 141B.0620 | 6   | 20 | 25   | 3 | 8   |
| 141B.0625 | 6   | 25 | 30   | 3 | 8   |
| 141B.0630 | 6   | 30 | 35   | 3 | 8   |
| 141B.0650 | 6   | 50 | 55   | 3 | 8   |
| 141B.0670 | 6   | 70 | 75   | 3 | 8   |
| 141B.0680 | 6   | 80 | 85   | 3 | 8   |
| 141B.0812 | 8   | 12 | 19   | 4 | 10  |
| 141B.0816 | 8   | 16 | 23   | 4 | 10  |
| 141B.0820 | 8   | 20 | 27   | 4 | 10  |
| 141B.0825 | 8   | 25 | 32   | 4 | 10  |
| 141B.0830 | 8   | 30 | 37   | 4 | 10  |
| 141B.0840 | 8   | 40 | 47   | 4 | 10  |
| 141B.0880 | 8   | 80 | 87   | 4 | 10  |
| 141B.0890 | 8   | 90 | 97   | 4 | 10  |
| 141B.1020 | 10  | 20 | 28   | 5 | 16  |
| 141B.1025 | 10  | 25 | 33   | 5 | 16  |
| 141B.1030 | 10  | 30 | 38   | 5 | 16  |
| 141B.1040 | 10  | 40 | 48   | 5 | 16  |
| 141B.1080 | 10  | 80 | 88   | 5 | 16  |
| 141B.1090 | 10  | 90 | 98   | 5 | 16  |
| 141B.1220 | 12  | 20 | 30   | 5 | 16  |
| 141B.1225 | 12  | 25 | 35   | 5 | 16  |
| 141B.1230 | 12  | 30 | 40   | 5 | 16  |
| 141B.1240 | 12  | 40 | 50   | 5 | 16  |
| 141B.1280 | 12  | 80 | 90   | 5 | 16  |

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **141B.0312**



# PILOTI

PILOT UNITS / PILOT EINHEITSPECIAL  
UNITÉS PILOTES



# SOLLEVATORI

LIFTERS / HUBEINRICHTUNGEN / ÉLÉVATEURS



# SOLLEVATORI

LIFTERS / HUBEINRICHTUNGEN / ÉLÉVATEURS

- IT** Meccanismi che permettono di guidare la lamiera durante lo stampaggio, garantendo anche la velocizzazione dell'avanzamento del nastro grazie ad un sistema di sollevamento.
- EN** Mechanisms that allow to guide the metal sheet during the stamping process, guaranteeing the increment of the band feeding speed thanks to a lifting system.
- DE** Mechanismen, welche die Führung des Bleches während des Formverfahren ermöglichen und eine höhere Bandgeschwindigkeit durch ein Hubsystem garantieren.
- FR** Mécanismes qui permettent de guider la tôle pendant l'emboutissage, en garantissant également une avance rapide du feuillard grâce à un système de levage.



PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE

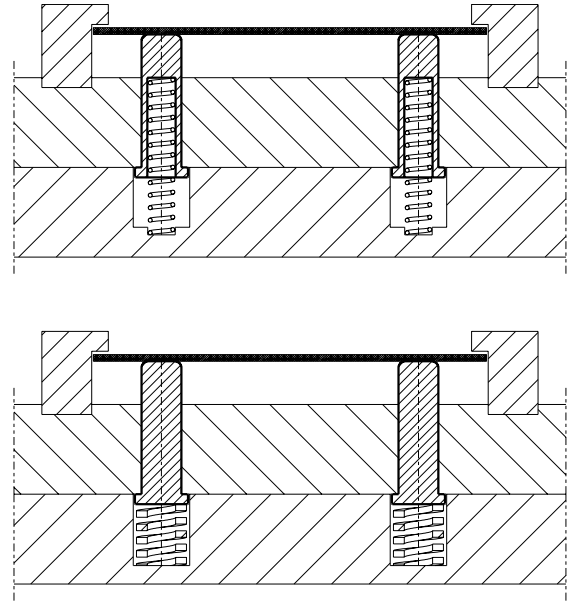
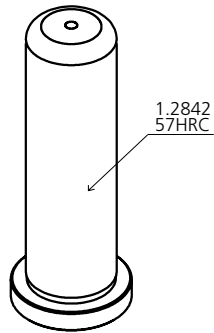
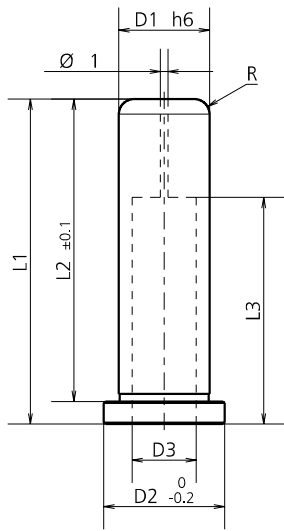






# 1201 - SOLLEVATORE

LIFTER / HUBZAPFEN / ÉLÉVATEUR



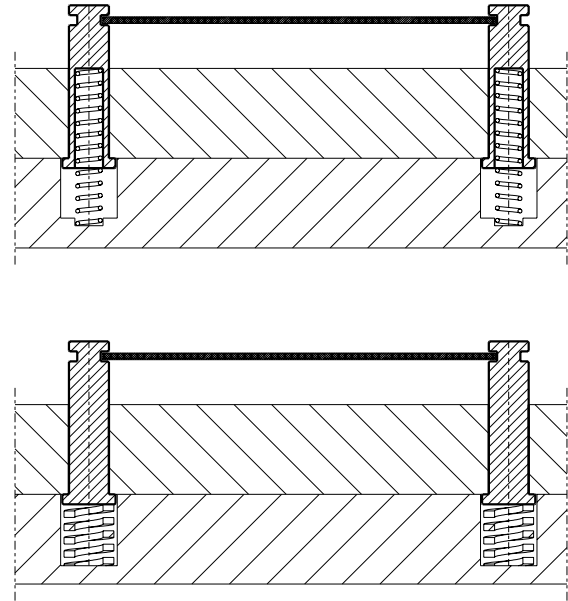
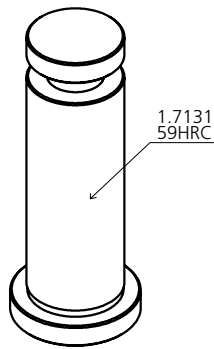
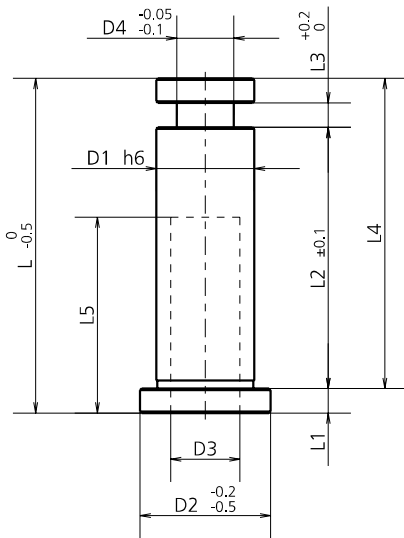
| MODEL     | D1 | D2 | D3   | L1 | L2 | L3 | R   |
|-----------|----|----|------|----|----|----|-----|
| 1201.0418 | 4  | 6  | -    | 18 | 16 | -  | 0.5 |
| 1201.0422 | 4  | 6  | -    | 22 | 20 | -  | 0.5 |
| 1201.0425 | 4  | 6  | -    | 25 | 23 | -  | 0.5 |
| 1201.0427 | 4  | 6  | -    | 27 | 25 | -  | 0.5 |
| 1201.0623 | 6  | 8  | -    | 23 | 20 | -  | 0.8 |
| 1201.0626 | 6  | 8  | -    | 26 | 23 | -  | 0.8 |
| 1201.0628 | 6  | 8  | -    | 28 | 25 | -  | 0.8 |
| 1201.0635 | 6  | 8  | -    | 35 | 32 | -  | 0.8 |
| 1201.0643 | 6  | 8  | -    | 43 | 40 | -  | 0.8 |
| 1201.0826 | 8  | 10 | -    | 26 | 23 | -  | 1   |
| 1201.0828 | 8  | 10 | -    | 28 | 25 | -  | 1   |
| 1201.0835 | 8  | 10 | -    | 35 | 32 | -  | 1   |
| 1201.0843 | 8  | 10 | -    | 43 | 40 | -  | 1   |
| 1201.1028 | 10 | 14 | 6.5  | 28 | 25 | 17 | 1.5 |
| 1201.1035 | 10 | 14 | 6.5  | 35 | 32 | 24 | 1.5 |
| 1201.1043 | 10 | 14 | 6.5  | 43 | 40 | 30 | 1.5 |
| 1201.1053 | 10 | 14 | 6.5  | 53 | 50 | 40 | 1.5 |
| 1201.1228 | 12 | 16 | 8.5  | 28 | 25 | 17 | 2   |
| 1201.1235 | 12 | 16 | 8.5  | 35 | 32 | 24 | 2   |
| 1201.1243 | 12 | 16 | 8.5  | 43 | 40 | 30 | 2   |
| 1201.1253 | 12 | 16 | 8.5  | 53 | 50 | 40 | 2   |
| 1201.1635 | 16 | 20 | 10.5 | 35 | 32 | 24 | 3.5 |
| 1201.1643 | 16 | 20 | 10.5 | 43 | 40 | 30 | 3.5 |
| 1201.1653 | 16 | 20 | 10.5 | 53 | 50 | 40 | 3.5 |
| 1201.1666 | 16 | 20 | 10.5 | 66 | 63 | 50 | 3.5 |
| 1201.2045 | 20 | 25 | 12.5 | 45 | 40 | 30 | 4   |
| 1201.2055 | 20 | 25 | 12.5 | 55 | 50 | 40 | 4   |
| 1201.2068 | 20 | 25 | 12.5 | 68 | 63 | 50 | 4   |

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1201** DIAMETER **D1 04** LENGHT **L1 22**

# 1202 - SOLLEVATORE GUIDA-NASTRO

LIFTER-METAL STRIP GUIDE / HUBZAPFEN STREIFENFÜHRUNG / ÉLÉVATEUR GUIDE FEUILLARD



| MODEL     | D1 | D2   | D3   | D4 | L    | L1 | L2 | L3  | L4   | L5 |
|-----------|----|------|------|----|------|----|----|-----|------|----|
| 1202.0629 | 6  | 8    | -    | 3  | 29.5 | 2  | 25 | 0.5 | 27.5 | -  |
| 1202.0630 | 6  | 8    | -    | 3  | 30   | 2  | 25 | 1   | 28   | -  |
| 1202.0636 | 6  | 8    | -    | 3  | 36.5 | 2  | 32 | 0.5 | 34.5 | -  |
| 1202.0637 | 6  | 8    | -    | 3  | 37   | 2  | 32 | 1   | 35   | -  |
| 1202.0831 | 8  | 10   | -    | 5  | 31   | 3  | 25 | 1   | 28   | -  |
| 1202.0832 | 8  | 10   | -    | 5  | 32   | 3  | 25 | 2   | 29   | -  |
| 1202.0838 | 8  | 10   | -    | 5  | 38   | 3  | 32 | 1   | 35   | -  |
| 1202.0839 | 8  | 10   | -    | 5  | 39   | 3  | 32 | 2   | 36   | -  |
| 1202.0846 | 8  | 10   | -    | 5  | 46   | 3  | 40 | 1   | 43   | -  |
| 1202.0847 | 8  | 10   | -    | 5  | 47   | 3  | 40 | 2   | 44   | -  |
| 1202.1033 | 10 | 12.5 | 6.5  | 6  | 33   | 3  | 25 | 2   | 30   | 18 |
| 1202.1034 | 10 | 12.5 | 6.5  | 6  | 34   | 3  | 25 | 3   | 31   | 18 |
| 1202.1040 | 10 | 12.5 | 6.5  | 6  | 40   | 3  | 32 | 2   | 37   | 24 |
| 1202.1041 | 10 | 12.5 | 6.5  | 6  | 41   | 3  | 32 | 3   | 38   | 24 |
| 1202.1048 | 10 | 12.5 | 6.5  | 6  | 48   | 3  | 40 | 2   | 45   | 30 |
| 1202.1049 | 10 | 12.5 | 6.5  | 6  | 49   | 3  | 40 | 3   | 46   | 30 |
| 1202.1233 | 12 | 16   | 8.5  | 7  | 33   | 3  | 25 | 2   | 30   | 18 |
| 1202.1234 | 12 | 16   | 8.5  | 7  | 34   | 3  | 25 | 3   | 31   | 18 |
| 1202.1240 | 12 | 16   | 8.5  | 7  | 40   | 3  | 32 | 2   | 37   | 24 |
| 1202.1241 | 12 | 16   | 8.5  | 7  | 41   | 3  | 32 | 3   | 38   | 24 |
| 1202.1248 | 12 | 16   | 8.5  | 7  | 48   | 3  | 40 | 2   | 45   | 30 |
| 1202.1249 | 12 | 16   | 8.5  | 7  | 49   | 3  | 40 | 3   | 46   | 30 |
| 1202.1642 | 16 | 20   | 10.5 | 8  | 42   | 3  | 32 | 3   | 39   | 24 |
| 1202.1644 | 16 | 20   | 10.5 | 8  | 44   | 3  | 32 | 5   | 41   | 24 |
| 1202.1650 | 16 | 20   | 10.5 | 8  | 50   | 3  | 40 | 3   | 47   | 30 |
| 1202.1652 | 16 | 20   | 10.5 | 8  | 52   | 3  | 40 | 5   | 49   | 30 |
| 1202.1660 | 16 | 20   | 10.5 | 8  | 60   | 3  | 50 | 3   | 57   | 40 |
| 1202.1662 | 16 | 20   | 10.5 | 8  | 62   | 3  | 50 | 5   | 59   | 40 |
| 1202.2052 | 20 | 25   | 12.5 | 12 | 52   | 5  | 40 | 3   | 47   | 30 |
| 1202.2054 | 20 | 25   | 12.5 | 12 | 54   | 5  | 40 | 5   | 49   | 30 |
| 1202.2062 | 20 | 25   | 12.5 | 12 | 62   | 5  | 50 | 3   | 57   | 40 |
| 1202.2064 | 20 | 25   | 12.5 | 12 | 64   | 5  | 50 | 5   | 59   | 40 |
| 1202.2075 | 20 | 25   | 12.5 | 12 | 75   | 5  | 63 | 3   | 70   | 50 |
| 1202.2077 | 20 | 25   | 12.5 | 12 | 77   | 5  | 63 | 5   | 72   | 50 |

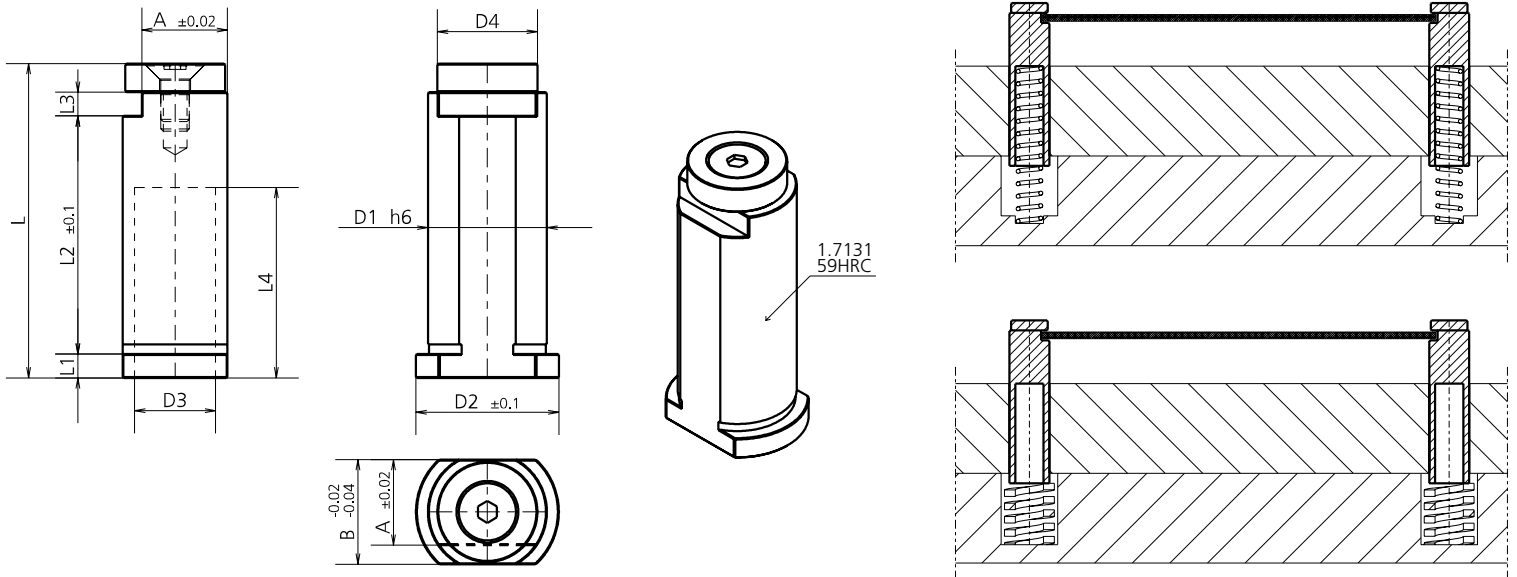
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1202** DIAMETER **D1 06** LENGHT **L1 29**



# 1203 - SOLLEVATORE GUIDA-NASTRO CON ANTIROTAZIONE

LIFTER-METAL STRIP GUIDE WITH ANTIROTATION SYSTEM / HUBZAPPEN STREIFENFÜHRUNG MIT ROTATIONSSTOP  
ÉLÉVATEUR GUIDE FEUILLARD ANTI-ROTATION



| MODEL     | D1 | D2 | D3  | D4 | L  | L1 | L2 | L3 | L4 | A    | B  |
|-----------|----|----|-----|----|----|----|----|----|----|------|----|
| 1203.1234 | 12 | 16 | 8.5 | 10 | 34 | 3  | 25 | 3  | 18 | 9    | 11 |
| 1203.1241 | 12 | 16 | 8.5 | 10 | 41 | 3  | 32 | 3  | 24 | 9    | 11 |
| 1203.1249 | 12 | 16 | 8.5 | 10 | 49 | 3  | 40 | 3  | 30 | 9    | 11 |
| 1203.1644 | 16 | 20 | 11  | 13 | 44 | 3  | 32 | 5  | 24 | 11   | 14 |
| 1203.1652 | 16 | 20 | 11  | 13 | 52 | 3  | 40 | 5  | 30 | 11   | 14 |
| 1203.1662 | 16 | 20 | 11  | 13 | 62 | 3  | 50 | 5  | 40 | 11   | 14 |
| 1203.2056 | 20 | 25 | 13  | 17 | 56 | 5  | 40 | 5  | 30 | 15   | 18 |
| 1203.2066 | 20 | 25 | 13  | 17 | 66 | 5  | 50 | 5  | 40 | 15   | 18 |
| 1203.2079 | 20 | 25 | 13  | 17 | 79 | 5  | 63 | 5  | 50 | 15   | 18 |
| 1203.2556 | 25 | 30 | 17  | 21 | 56 | 5  | 40 | 5  | 30 | 18   | 22 |
| 1203.2566 | 25 | 30 | 17  | 21 | 66 | 5  | 50 | 5  | 40 | 18   | 22 |
| 1203.2579 | 25 | 30 | 17  | 21 | 79 | 5  | 63 | 5  | 50 | 18   | 22 |
| 1203.3056 | 30 | 35 | 21  | 25 | 56 | 5  | 40 | 5  | 30 | 21.5 | 26 |
| 1203.3066 | 30 | 35 | 21  | 25 | 66 | 5  | 50 | 5  | 40 | 21.5 | 26 |
| 1203.3079 | 30 | 35 | 21  | 25 | 79 | 5  | 63 | 5  | 50 | 21.5 | 26 |



MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1203** DIAMETER **D1 12** LENGHT **L1 34**



# SOLLEVATORI

LIFTERS / HUBEINRICHTUNGEN / ÉLÉVATEURS



# PRESSORI MOLLEGGIATI

SPRUNG PRESSERS / GEFEDERTE NIEDERHALTER-DRUCKROLLEN  
PRESSEURS À RESSORT



## PRESSORI MOLLEGGIATI

SPRUNG PRESSERS / GEFEDERTE NIEDERHALTER-DRUCKROLLEN / PRESSEURS À RESSORT

- IT** Sistemi molleggiati a sfere o rulli, che facilitano la movimentazione di piastre e stampi pesanti.
- EN** Ball bearings or rollers sprung systems, that facilitate the movement of heavy plates and dies.
- DE** Gefederte Systeme mit Kugeln oder Rollen welche die Fortbewegung von schwere Blechen und Pressformen erleichtern.
- FR** Systèmes à ressorts à billes ou à rouleaux, qui facilitent la manipulation des plaques et des outils de découpe lourds.



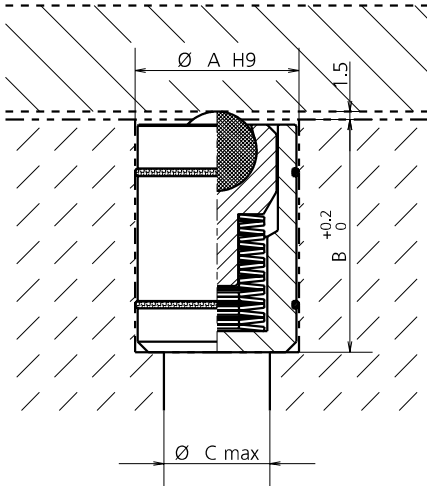
PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE





## 1301 - PRESSORE MOLLEGGIATO A SFERA

BALL BEARING PRESSER / KUGELLAGERANDRÜCKER / PRESSEUR À RESSORT À BILLES



| MODEL     | Ø A | Ø BALL BEARING | B  | Ø C | LOAD (daN) |
|-----------|-----|----------------|----|-----|------------|
| 1301.0020 | 20  | 10             | 30 | 10  | 25         |
| 1301.0024 | 24  | 12             | 38 | 14  | 40         |
| 1301.0030 | 30  | 15             | 44 | 20  | 63         |
| 1301.0040 | 40  | 20             | 53 | 30  | 100        |

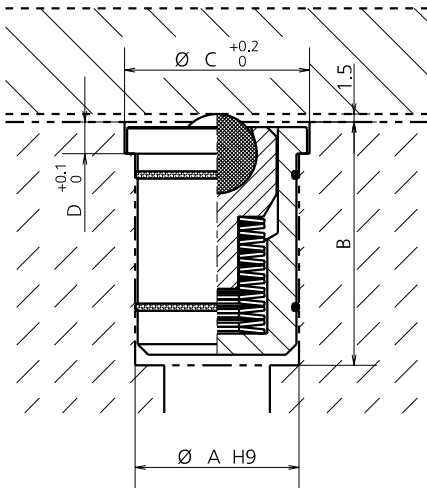
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1301** Ø DIAMETER **0020**



## 1302 - PRESSORE MOLLEGGIATO A SFERA CON COLLARE

BALL BEARING PRESSER WITH COLLAR / KUGELLAGERANDRÜCKER GEKRÖPFT / PRESSEUR À RESSORT À BILLES AVEC COLLIER



| MODEL     | Ø A | Ø BALL BEARING | B  | Ø C | D   | LOAD (daN) |
|-----------|-----|----------------|----|-----|-----|------------|
| 1302.0020 | 20  | 10             | 31 | 25  | 3,5 | 25         |
| 1302.0024 | 24  | 12             | 39 | 30  | 4   | 40         |
| 1302.0030 | 30  | 15             | 45 | 35  | 5   | 63         |
| 1302.0040 | 40  | 20             | 54 | 50  | 6   | 100        |

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

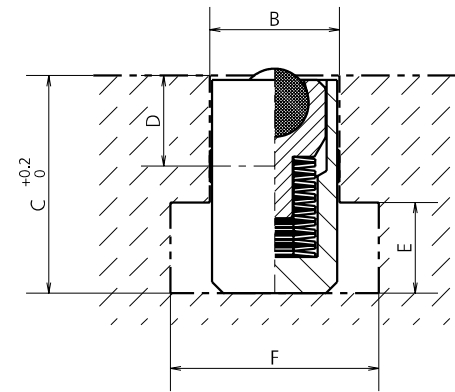
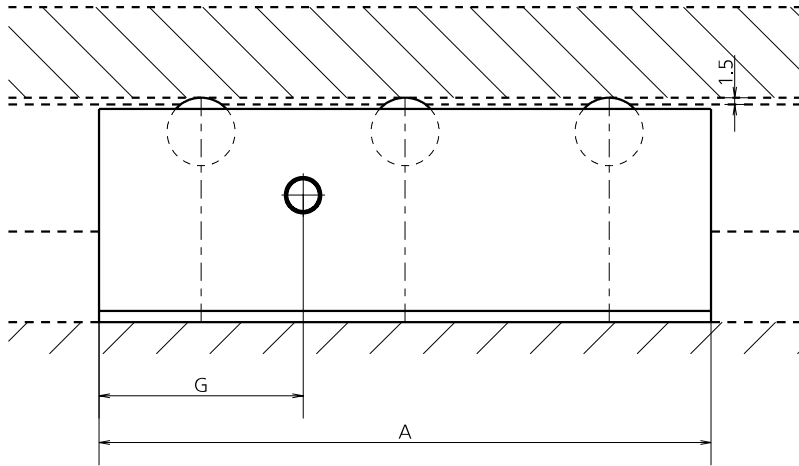
MODEL **1302** Ø DIAMETER **0020**





# 1303 - LISTELLO PORTA-PRESSORI MOLLEGGIATI A SFERA

BALL BEARING PRESSER RAIL / KUGELLAGERANDRÜCKERSCHIENE / LISTEL PORTE-PRESSEUR À RESSORT À BILLES

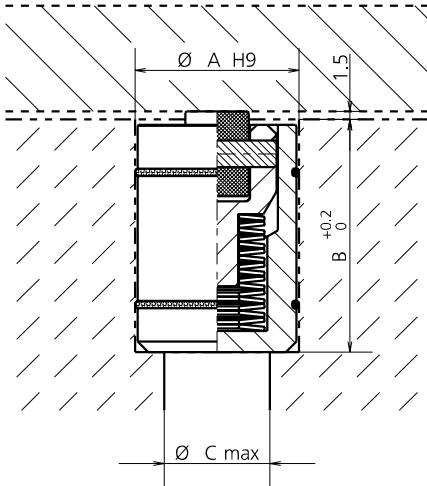


| MODEL     | Ø BALL BEARING | Q.TY | A   | B  | C  | D    | E  | F  | G  | LOAD (daN) |
|-----------|----------------|------|-----|----|----|------|----|----|----|------------|
| 1303.A105 | 10             | 3    | 105 | 18 | 30 | 14,5 | 12 | 30 | 35 | 75         |
| 1303.A140 | 10             | 4    | 140 | 18 | 30 | 14,5 | 12 | 30 | 35 | 100        |
| 1303.A175 | 10             | 5    | 175 | 18 | 30 | 14,5 | 12 | 30 | 35 | 125        |
| 1303.A210 | 10             | 6    | 210 | 18 | 30 | 14,5 | 12 | 30 | 35 | 150        |
| 1303.A280 | 10             | 8    | 280 | 18 | 30 | 14,5 | 12 | 30 | 35 | 200        |
| 1303.A350 | 10             | 10   | 350 | 18 | 30 | 14,5 | 12 | 30 | 35 | 250        |
| 1303.B120 | 12             | 3    | 120 | 22 | 38 | 14,5 | 16 | 37 | 40 | 120        |
| 1303.B160 | 12             | 4    | 160 | 22 | 38 | 14,5 | 16 | 37 | 40 | 160        |
| 1303.B200 | 12             | 5    | 200 | 22 | 38 | 14,5 | 16 | 37 | 40 | 200        |
| 1303.B240 | 12             | 6    | 240 | 22 | 38 | 14,5 | 16 | 37 | 40 | 240        |
| 1303.B320 | 12             | 8    | 320 | 22 | 38 | 14,5 | 16 | 37 | 40 | 320        |
| 1303.B400 | 12             | 10   | 400 | 22 | 38 | 14,5 | 16 | 37 | 40 | 400        |
| 1303.C135 | 15             | 3    | 135 | 28 | 48 | 19   | 20 | 46 | 45 | 190        |
| 1303.C180 | 15             | 4    | 180 | 28 | 48 | 19   | 20 | 46 | 45 | 250        |
| 1303.C225 | 15             | 5    | 225 | 28 | 48 | 19   | 20 | 46 | 45 | 320        |
| 1303.C270 | 15             | 6    | 270 | 28 | 48 | 19   | 20 | 46 | 45 | 380        |
| 1303.C360 | 15             | 8    | 360 | 28 | 48 | 19   | 20 | 46 | 45 | 500        |
| 1303.C450 | 15             | 10   | 450 | 28 | 48 | 19   | 20 | 46 | 45 | 630        |
| 1303.D150 | 20             | 3    | 150 | 36 | 61 | 24,5 | 25 | 56 | 50 | 300        |
| 1303.D200 | 20             | 4    | 200 | 36 | 61 | 24,5 | 25 | 56 | 50 | 400        |
| 1303.D250 | 20             | 5    | 250 | 36 | 61 | 24,5 | 25 | 56 | 50 | 500        |
| 1303.D300 | 20             | 6    | 300 | 36 | 61 | 24,5 | 25 | 56 | 50 | 600        |
| 1303.D400 | 20             | 8    | 400 | 36 | 61 | 24,5 | 25 | 56 | 50 | 800        |
| 1303.D500 | 20             | 10   | 500 | 36 | 61 | 24,5 | 25 | 56 | 50 | 1000       |



## 1304 - PRESSORE MOLLEGGIATO A RULLO

ROLLER PRESSER / WÄZLAGERANDRÜCKER / PRESSEUR À RESSORT À ROULEAUX



| MODEL     | Ø A | Ø ROLLER | B  | Ø C | LOAD (daN) |
|-----------|-----|----------|----|-----|------------|
| 1304.0020 | 20  | 10       | 30 | 10  | 50         |
| 1304.0024 | 24  | 13       | 38 | 14  | 80         |
| 1304.0030 | 30  | 16       | 44 | 20  | 125        |
| 1304.0040 | 40  | 19       | 53 | 30  | 200        |

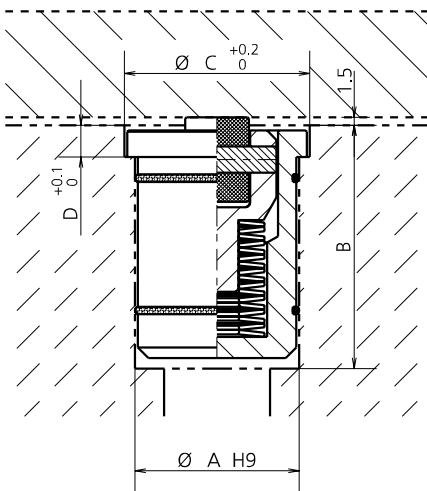
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1304** Ø DIAMETER **0020**



## 1305 - PRESSORE MOLLEGGIATO A RULLO CON COLLARE

ROLLER PRESSER WITH COLLAR / WÄZLAGERANDRÜCKER GEKRÖPFT / PRESSEUR À RESSORT À ROULEAUX AVEC COLLIER



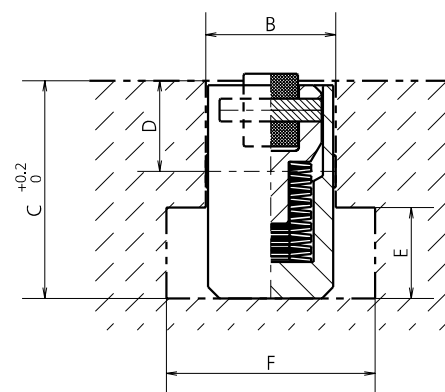
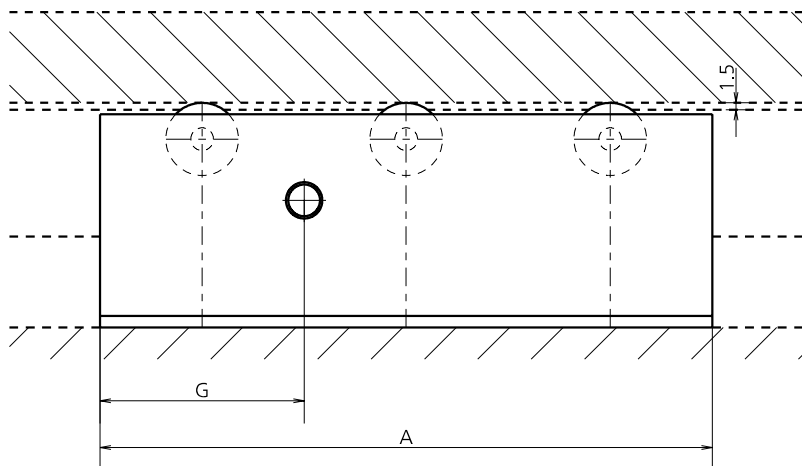
| MODEL     | Ø A | Ø ROLLER | B  | Ø C | D   | LOAD (daN) |
|-----------|-----|----------|----|-----|-----|------------|
| 1305.0020 | 20  | 10       | 31 | 25  | 3,5 | 50         |
| 1305.0024 | 24  | 13       | 39 | 30  | 4   | 80         |
| 1305.0030 | 30  | 16       | 45 | 35  | 5   | 125        |
| 1305.0040 | 40  | 19       | 54 | 50  | 6   | 200        |

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1305** Ø DIAMETER **0020**

# 1306 - LISTELLO PORTA-PRESSORI MOLLEGGIATI A RULLI

ROLLER PRESSER RAIL / WÄZLAGERANDRÜCKERSCHIENE / LISTEL PORTE-PRESSEUR À RESSORT À ROULEAUX



| MODEL     | Ø ROLLER | Q.TY | A   | B  | C  | D    | E  | F  | G  | LOAD (daN) |
|-----------|----------|------|-----|----|----|------|----|----|----|------------|
| 1306.A105 | 10       | 3    | 105 | 18 | 30 | 14,5 | 12 | 30 | 35 | 150        |
| 1306.A140 | 10       | 4    | 140 | 18 | 30 | 14,5 | 12 | 30 | 35 | 200        |
| 1306.A175 | 10       | 5    | 175 | 18 | 30 | 14,5 | 12 | 30 | 35 | 250        |
| 1306.A210 | 10       | 6    | 210 | 18 | 30 | 14,5 | 12 | 30 | 35 | 300        |
| 1306.A280 | 10       | 8    | 280 | 18 | 30 | 14,5 | 12 | 30 | 35 | 400        |
| 1306.A350 | 10       | 10   | 350 | 18 | 30 | 14,5 | 12 | 30 | 35 | 500        |
| 1306.B120 | 13       | 3    | 120 | 22 | 38 | 14,5 | 16 | 37 | 40 | 240        |
| 1306.B160 | 13       | 4    | 160 | 22 | 38 | 14,5 | 16 | 37 | 40 | 320        |
| 1306.B200 | 13       | 5    | 200 | 22 | 38 | 14,5 | 16 | 37 | 40 | 400        |
| 1306.B240 | 13       | 6    | 240 | 22 | 38 | 14,5 | 16 | 37 | 40 | 480        |
| 1306.B320 | 13       | 8    | 320 | 22 | 38 | 14,5 | 16 | 37 | 40 | 640        |
| 1306.B400 | 13       | 10   | 400 | 22 | 38 | 14,5 | 16 | 37 | 40 | 800        |
| 1306.C135 | 16       | 3    | 135 | 28 | 48 | 19   | 20 | 46 | 45 | 380        |
| 1306.C180 | 16       | 4    | 180 | 28 | 48 | 19   | 20 | 46 | 45 | 500        |
| 1306.C225 | 16       | 5    | 225 | 28 | 48 | 19   | 20 | 46 | 45 | 630        |
| 1306.C270 | 16       | 6    | 270 | 28 | 48 | 19   | 20 | 46 | 45 | 750        |
| 1306.C360 | 16       | 8    | 360 | 28 | 48 | 19   | 20 | 46 | 45 | 1000       |
| 1306.C450 | 16       | 10   | 450 | 28 | 48 | 19   | 20 | 46 | 45 | 1250       |
| 1306.D150 | 19       | 3    | 150 | 36 | 61 | 24,5 | 25 | 56 | 50 | 600        |
| 1306.D200 | 19       | 4    | 200 | 36 | 61 | 24,5 | 25 | 56 | 50 | 800        |
| 1306.D250 | 19       | 5    | 250 | 36 | 61 | 24,5 | 25 | 56 | 50 | 1000       |
| 1306.D300 | 19       | 6    | 300 | 36 | 61 | 24,5 | 25 | 56 | 50 | 1200       |
| 1306.D400 | 19       | 8    | 400 | 36 | 61 | 24,5 | 25 | 56 | 50 | 1600       |
| 1306.D500 | 19       | 10   | 500 | 36 | 61 | 24,5 | 25 | 56 | 50 | 2000       |

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1306.A105**



# SUPPORTI PER STAMPI

SUPPORTS FOR DIES / WERKZEUGE ENTLASTUNG  
SUPPORTS POUR OUTILS DE DÉCOUPE



## SUPPORTI PER STAMPI

SUPPORTS FOR DIES / WERKZEUGE ENTLASTUNG / SUPPORTS POUR OUTILS DE DÉCOUPE

- IT** Pensati e costruiti per lo stoccaggio ed il trasporto dello stampo. Questo tipo di prodotto serve a distanziare le parti. In questo modo le molle ed i cilindri non vengono sovra-caricati. È indispensabile per la protezione degli stampi, in quanto vi è un perfetto centraggio tra bussola e colonna. Ogni supporto ha una portata proporzionata al peso dello stampo. Anche “visivamente” cattura l’attenzione dell’osservatore.
- EN** Designed and built for the storage and transport of the die. This type of product is necessary to distance the parts. In this way the springs and the cylinders are not over-loaded. It is essential for the protection of the dies, as there is a perfect centring between bushing and column. Every “SSD” has a proportionate carrying capacity to the weight of the die. Also “visually” captures the viewer’s attention.
- DE** Dieses Produkt ist für die Lagerung und den Transport von Werkzeugen konzipiert. Es eignet sich um Werkzeuge zu distanzieren. Auf diese Weise werden Schnitte, Formen und Gasdruckfedern geschont. Es ist wichtig für den Schutz des Werkzeuges, da es eine perfekte Zentrierung zwischen Buchse und Säule. Jeder “SSD” hat eine Tragfähigkeit proportional zum Gewicht des Werkzeuges. Auch “visuell” fängt die Aufmerksamkeit des Betrachters.
- FR** Conçus et fabriqués pour le stockage et le transport d’outil de découpe. Ce type de produit est utilisé pour éloigner les pièces. De cette façon, les ressorts et les vérins ne sont pas surchargés. Il est indispensable pour la protection des outils de découpe, car il permet un centrage parfait entre le manchon et la colonne. Chaque support a une capacité de charge proportionnelle au poids de l’outil de découpe. Même “visuellement” il capture l’attention de l’observateur.



PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE



# SUPPORTI PER STAMPI

SUPPORTS FOR DIES / WERKZEUGE ENTLASTUNG / SUPPORTS POUR OUTILS DE DÉCOUPE

USO SENZA / USE WITHOUT / NUTZUNG OHNE  
UTILISATION SANS  
SSD - SMD - CD

Nessuna protezione per lo stampo. Nessuna stabilità. Pericolo di ammassamento.  
No protection for the die. No stability. Risk of crush.  
Keine Schutz für das Werkzeug. Keine Stabilität. Gefahr der Kollision.  
Aucune protection pour l'outil de découpe. Pas de stabilité. Danger de cabossage.

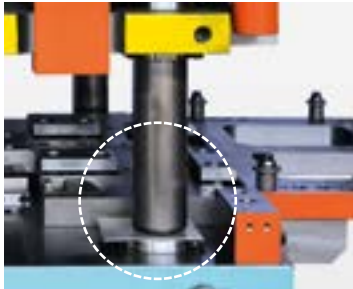
USO CON / USE WITH / NUTZUNG MIT  
UTILISATION AVEC  
SSD - SMD - CD

Protezione per lo stampo. Stabilità. Nessun danno. Nessun pericolo di ammassamento.  
Protection for the die. Stability. No damages. No risk of crush.  
Schutz für die Werkzeug. Stabilität. Keine Schäden. Keine Kollisionsgefahr.  
Protection pour l'outil de découpe. Stabilité. Aucun dommage. Aucun danger de cabossage.

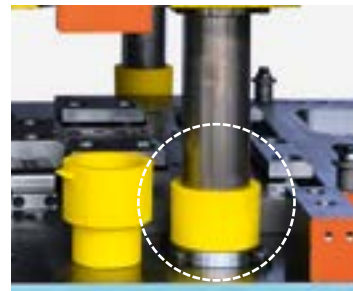
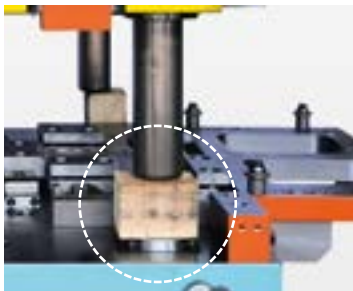


**I supporti devono essere rimossi prima di testare lo stampo.**  
The supports must be removed before testing the die.  
Distanzstücke müssen vor dem Test aus dem Werkzeug entfernen.  
Les supports doivent être retirés avant de tester l'outil de découpe.

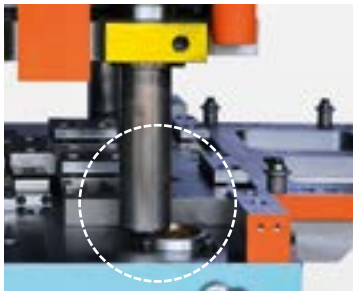
PEZZI DI METALLO / METAL PIECES / METALSTÜCKE / PIÈCES DE MÉTAL



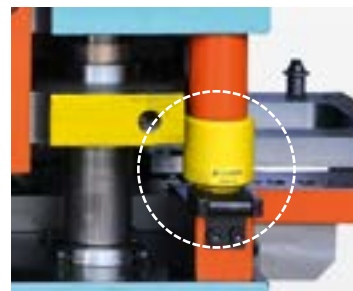
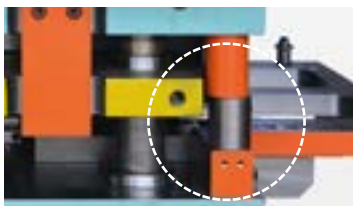
PEZZI DI LEGNO / WOOD PIECES / HOLZSTÜCKE / PIÈCES DE BOIS



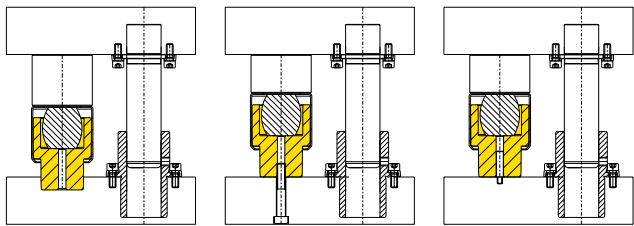
APPOGGIO CASUALE SULLE COLONNE DELLO STAMPO / CASUAL SUPPORT ON THE COLUMNS OF THE DIE / ZUFÄLLIGE UNTERSTÜTZUNG AUF DEN SÄULEN DER MATRIZE / SUPPORT ALÉATOIRE SUR LES COLONNES DE L'OUTIL DE DÉCOUPE



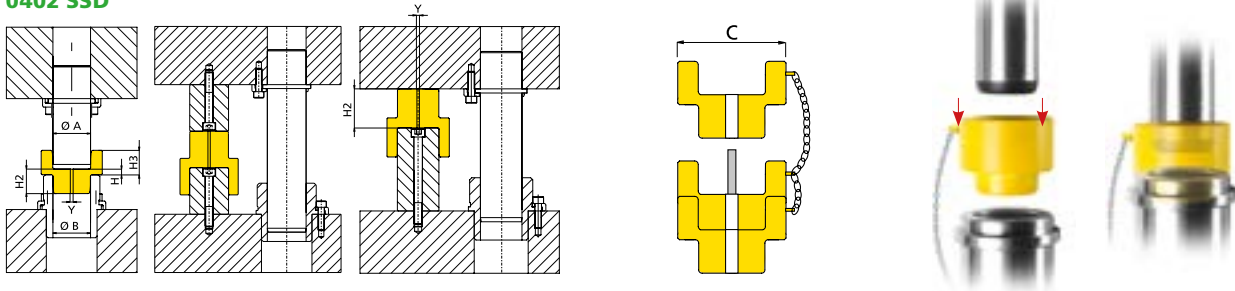
APPOGGIO CASUALE CON UN PEZZO DI METALLO / CASUAL SUPPORT WITH A PIECE OF METAL / ZUFÄLLIGE UNTERSTÜTZUNG MIT EINEM METALLSTÜCK / SUPPORT ALÉATOIRE AVEC UNE PIÈCE DE MÉTAL



**0401 SMD**

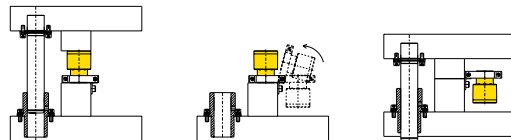


**0402 SSD**

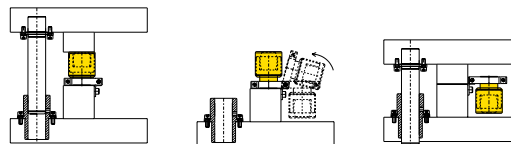


**0403 CD**

SENZA AMMORTIZZAZIONE  
WITHOUT DAMPING  
OHNE DÄMPFUNG  
SANS AMORTISSEUR



CON AMMORTIZZAZIONE  
WITH DAMPING  
MIT DÄMPFUNG  
AVEC AMORTISSEUR



**PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE**

- 1** Visione dello stampo senza rischi.  
Vision of the die without risks. / Vision des Werkzeuges ohne gefahr. / Vue de l'outil de découpe sans risque.
- 2** Si può lavorare senza causare danni.  
You can work without causing damages. / Es kann, ohne Schaden zu arbeiten. / Possibilità di travailler sans causer de dommage.
- 3** Il supporto garantisce stabilità adeguata.  
The support guarantees adequate stability. / Jedes Distanzstück garantiert ausreichende Stabilität. / Le support garantit une stabilité adéquate.
- 4** Varietà di applicazioni ed assemblaggi.  
Variety of applications and assemblies. / Vielzahl von Anwendungen und Montagen. / Variété des applications et des assemblages.
- 5** Facilità di apertura dello stampo.  
Ease of opening of the die. / Einfache Öffnung des Werkzeuges. / Ouverture facile de l'outil de découpe.
- 6** Il premiamiera non tocca la matrice. Le molle non vanno in compressione ed il peso dello stampo viene bilanciato.  
The stripper does not touch the matrix. The springs do not go into compression and the weight of the die will be balanced. / Der Stripper berührt die Matrize nicht. Die Federn unter Kompression gehen nicht, und das Gewicht des Werkzeuges ausgeglichen ist. / Le serre-flan ne touche pas la matrice. Les ressorts ne se compriment pas et le poids d'outil de découpe est équilibré.
- 7** Tutela per gli elementi guida.  
Protection for the guiding elements. / Schutz für die Führungselemente. / Protection des éléments guides.
- 8** Possibilità di filetto all' interno del foro.  
Possibility of thread inside the hole. / Möglichkeit vom dem Gewinde im Loch. / Possibilité de filetage à l'intérieur du trou.
- 9** Possibilità di utilizzo di un apposito foro per fissare l' "SSD" con una catena allo stampo.  
Possibility of using a special hole to fix the "SSD" with a chain to the die. / Möglichkeit der Verwendung einer speziellen Loch um "SSD" mit einer Kettchen in dem Werkzeug zu sichern. / Possibilité d'utiliser un trou spécial pour fixer le "SSD" avec une chaîne à l'outil de découpe.
- 10** Trasporto sicuro fino al magazzino.  
Transport sicuro fino al magazzino. / Einen sicheren Transport zum Lager. / Transport sécurisé vers le magasin.
- 11** Staffaggio in "sicurezza" nella pressa.  
Clamping in "safety". / Festklemmen in "Sicherheit". / Étrier sécurisé sur la presse.
- 12** L'apertura dello stampo e la sua disattivazione è data dal CD.  
The opening of the die and its deactivation is given by the CD. / Die Öffnung des Werkzeuges und ihrer Deaktivierung wird durch CD gegeben. / L'ouverture de l'outil de découpe et sa désactivation sont données par le CD.
- 13** Possibilità di inserimento di spessori per regolare altezze.  
Possibility to insert thicknesses to adjust heights. / Die Möglichkeit des Einsetzens die Stärke um die Höhen einstellen. / Possibilité d'insérer des cales pour régler les hauteurs.

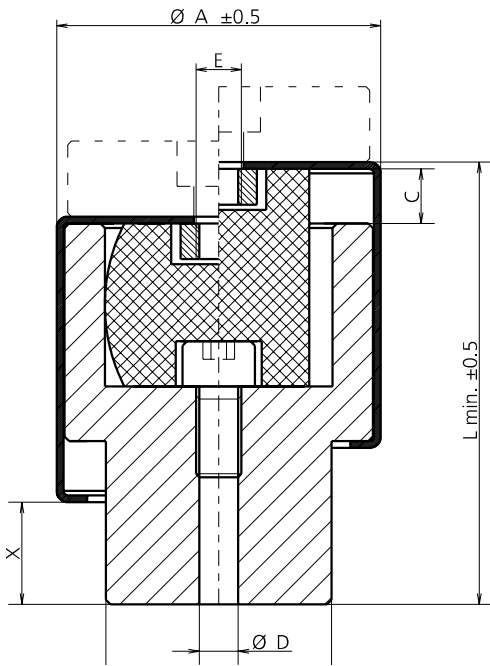




# 0401 - SUPPORTO CON MOLLA

SUPPORT BAR WITH SPRING / ABSTELLBOLZEN MIT FEDER / SUPPORT AVEC RESSORT

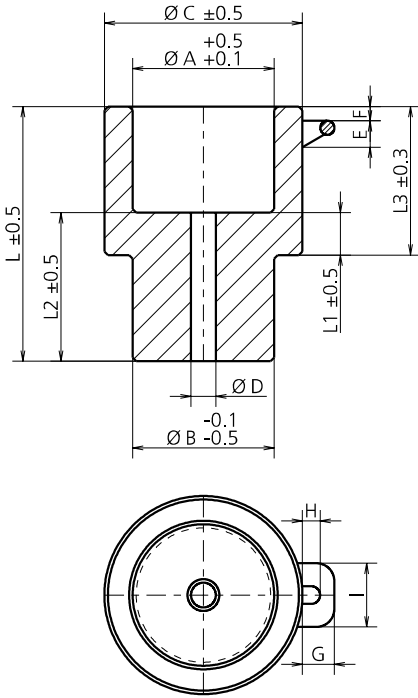
PATENT PENDING



| MODEL     | Ø A   | Ø B   | C  | Ø D | E   | L MIN | X  | CARICO A FINE CORSA (daN)<br>LOAD AT THE END OF THE STROKE (daN)<br>BELASTUNG AM ENDE DES HUBES (daN)<br>CHARGEMENT EN FIN DE COURSE (daN) | CARICO TOTALE (daN)<br>TOTAL LOAD (daN)<br>GESAMTBELASTUNG (daN)<br>CHARGEMENT TOTAL (daN) |
|-----------|-------|-------|----|-----|-----|-------|----|--|--|
| 0401.0040 | 60.5  | 39.8  | 10 | 6.8 | M8  | 84    | 18 | 600  | 6000   |
| 0401.0050 | 72.5  | 49.8  | 10 | 8.6 | M10 | 95.5  | 24 | 800  | 7500   |
| 0401.0063 | 87    | 62.8  | 10 | 8.6 | M10 | 103   | 27 | 1250   | 9400   |
| 0401.0080 | 109   | 79.8  | 10 | 8.6 | M10 | 105.5 | 27 | 2300   | 12000  |
| 0401.0100 | 129   | 99.8  | 10 | 8.6 | M10 | 107   | 27 | 3600   | 15000  |
| 0401.0125 | 155.5 | 124.8 | 10 | 8.6 | M10 | 108   | 27 | 7000   | 18000  |

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0401** DIAMETER **0040**



MATERIALE / MATERIAL / MATERIAL / MATÉRIAU Greenamid PA6 (GF30)  
 COLORE / COLOR / FARBE / COULEUR Giallo / Yellow / Gelb / Jaune

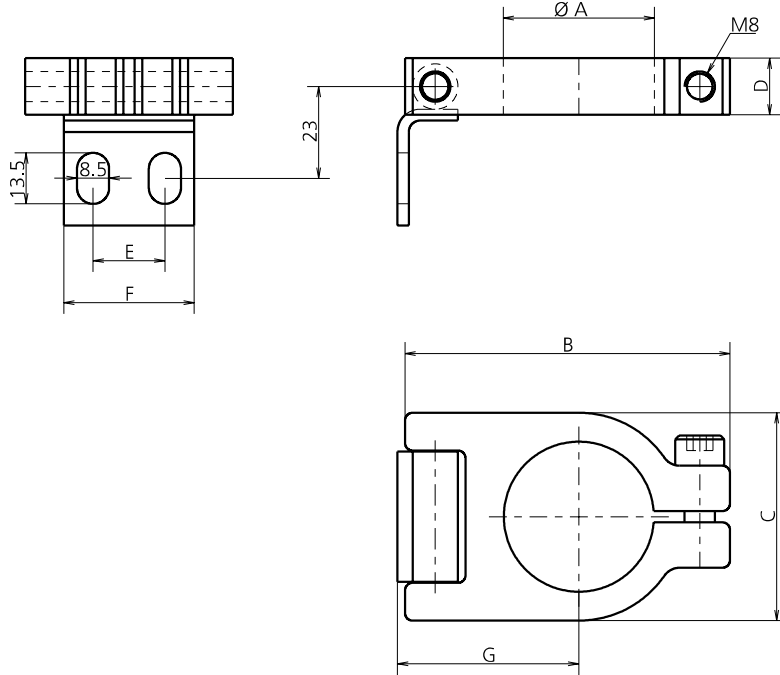
| MODEL     | Ø A   | Ø B   | Ø C | Ø D | E | F   | G   | H | I  | L  | L1 | L2 | L3 | PORTATA CAD. UNO (daN)<br>CARRYING CAPACITY PER UNIT (daN)<br>TRAGFÄHIGKEIT PRO-STÜCK (daN)<br>CAPACITÉ CHACUN (daN) |
|-----------|-------|-------|-----|-----|---|-----|-----|---|----|----|----|----|----|--|
| 0402.0015 | 15.2  | 14.8  | 25  | 7   | 7 | 5.5 | 8.5 | 5 | 14 | 52 | 12 | 32 | 32 | 850  |
| 0402.0016 | 16.2  | 15.8  | 26  | 7   | 7 | 5.5 | 8.5 | 5 | 14 | 52 | 12 | 32 | 32 | 850  |
| 0402.0018 | 18.2  | 17.8  | 29  | 7   | 7 | 5.5 | 8.5 | 5 | 14 | 52 | 12 | 32 | 32 | 1800   |
| 0402.0019 | 19.2  | 18.8  | 30  | 7   | 7 | 5.5 | 8.5 | 5 | 14 | 52 | 12 | 32 | 32 | 1800   |
| 0402.0020 | 20.2  | 19.8  | 31  | 7   | 7 | 5.5 | 8.5 | 5 | 14 | 52 | 12 | 32 | 32 | 1800   |
| 0402.0024 | 24.2  | 23.8  | 36  | 7   | 7 | 5.5 | 8.5 | 5 | 14 | 56 | 12 | 34 | 34 | 3400   |
| 0402.0025 | 25.2  | 24.8  | 37  | 7   | 7 | 5.5 | 8.5 | 5 | 14 | 56 | 12 | 34 | 34 | 3400   |
| 0402.0030 | 30.2  | 29.8  | 44  | 7   | 7 | 5.5 | 8.5 | 5 | 14 | 60 | 12 | 36 | 36 | 3500   |
| 0402.0032 | 32.2  | 31.8  | 46  | 7   | 7 | 5.5 | 8.5 | 5 | 14 | 60 | 12 | 36 | 36 | 3500   |
| 0402.0038 | 38.2  | 37.8  | 54  | 7   | 8 | 5   | 9   | 5 | 18 | 73 | 12 | 43 | 43 | 5500   |
| 0402.0040 | 40.2  | 39.8  | 56  | 7   | 8 | 5   | 9   | 5 | 18 | 73 | 12 | 43 | 43 | 5500   |
| 0402.0042 | 42.2  | 41.8  | 58  | 7   | 8 | 5   | 9   | 5 | 18 | 73 | 12 | 43 | 43 | 5500   |
| 0402.0048 | 48.2  | 47.8  | 66  | 8.6 | 8 | 5   | 9   | 5 | 18 | 84 | 12 | 48 | 49 | 6500   |
| 0402.0050 | 50.2  | 49.8  | 68  | 8.6 | 8 | 5   | 9   | 5 | 18 | 84 | 12 | 48 | 49 | 6500   |
| 0402.0052 | 52.2  | 51.8  | 70  | 8.6 | 8 | 5   | 9   | 5 | 18 | 84 | 12 | 48 | 49 | 6500   |
| 0402.0060 | 60.2  | 59.8  | 79  | 8.6 | 8 | 5   | 9   | 5 | 18 | 92 | 12 | 52 | 53 | 10000  |
| 0402.0063 | 63.2  | 62.8  | 82  | 8.6 | 8 | 5   | 9   | 5 | 18 | 92 | 12 | 52 | 53 | 10000  |
| 0402.0080 | 80.2  | 79.8  | 102 | 8.6 | 8 | 5   | 9   | 5 | 18 | 94 | 14 | 54 | 54 | 12000  |
| 0402.0100 | 100.2 | 99.8  | 123 | 8.6 | 8 | 5   | 9   | 5 | 18 | 96 | 16 | 56 | 56 | 15000  |
| 0402.0125 | 125.2 | 124.8 | 150 | 8.6 | 8 | 5   | 9   | 5 | 18 | 96 | 16 | 56 | 56 | 15000  |



# 0403 - CERNIERA

HINGE FOR SUPPORT / ZUBEHÖR-SCHARNIER / CHARNIÈRE

PATENT PENDING

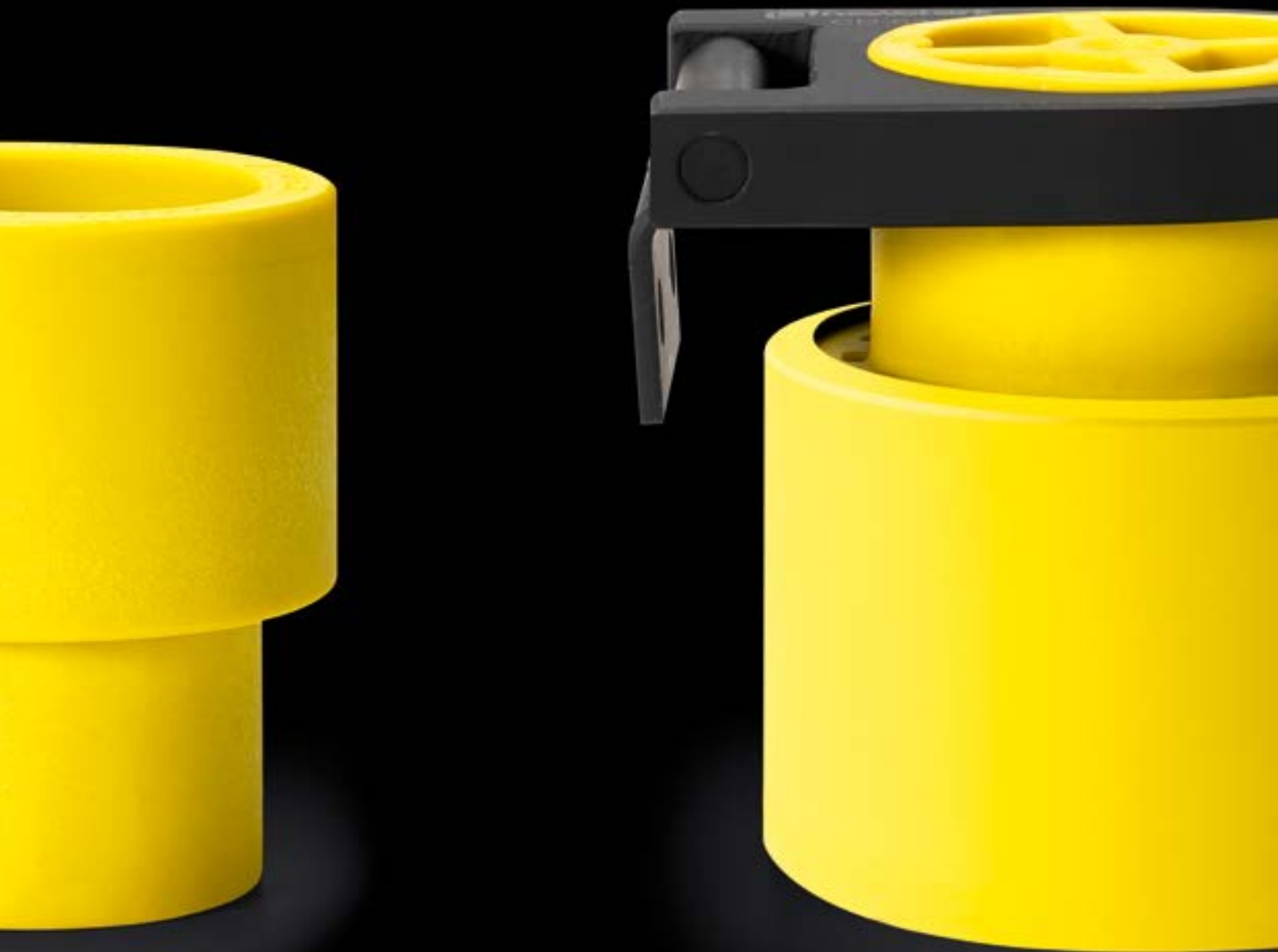


| MODEL     | Ø A   | B   | C   | D  | E  | F    | G    |
|-----------|-------|-----|-----|----|----|------|------|
| 0403.0040 | 39.8  | 86  | 55  | 15 | 19 | 34.5 | 48   |
| 0403.0050 | 49.8  | 97  | 70  | 15 | 25 | 44.5 | 56   |
| 0403.0063 | 62.8  | 106 | 80  | 15 | 30 | 49.5 | 59.5 |
| 0403.0080 | 79.8  | 140 | 105 | 15 | 40 | 69.5 | 73   |
| 0403.0100 | 99.8  | 156 | 125 | 15 | 50 | 79.5 | 81.5 |
| 0403.0125 | 124.8 | 183 | 150 | 15 | 70 | 99.5 | 94.5 |



MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0403** DIAMETER **0040**



# SUPPORTI PER STAMPI

SUPPORTS FOR DIES / WERKZEUGE ENTLASTUNG  
SUPPORTS POUR OUTILS DE DÉCOUPE

# EVACUATORI PNEUMATICI

PNEUMATIC EJECTORS / PNEUMATISCHE TEILEFÖRDER  
ÉVACUATEURS PNEUMATIQUES





## EVACUATORI PNEUMATICI

PNEUMATIC EJECTORS / PNEUMATISCHE TEILEFÖRDER / ÉVACUATEURS PNEUMATIQUES

- IT** Meccanismo di trasferimento di materiali attraverso sistema pneumatico vibrante, di dimensioni molto ridotte, applicabile anche in punti di scomoda evacuazione dei pezzi. Attraverso una slitta si possono applicare scivoli di dimensioni diverse, a seconda delle esigenze applicative; tale slitta è provvista di un sistema di regolazione dell'inclinazione. Il sistema viene attivato tramite allacciamento alla rete dell'aria compressa, preventivamente filtrato da un regolatore di pressione da 2 a 5 bar. La velocità di lavoro è regolabile attraverso una valvola di ottone inserita direttamente nell'attrezzo.
- EN** Material conveyor mechanism through pneumatic vibrant system, with very small dimensions, applicable even in evacuation uneasy situations. Depending on application requirements, by mean of a slide, different sizes of plates can be applied, this slide is equipped with an adjustment sloping system. This system is activated through compressed air connection previously filtered through a pressure regulator from 2 to 5 bar. Work speed is adjustable through a brass valve directly inserted in the tool.
- DE** Transportmechanismus für Teile. Die Bewegung erfolgt durch ein schwingendes pneumatisches System, das an einigen Punkten befestigt werden kann. Je nach Anforderungen können Transportbleche unterschiedlicher Abmessungen angebracht werden. Die Bleche haben ein Regelsystem der Neigung. Der Schlitten hat ein Regelsystem der Neigung. Das System wird mit Pressluft betätigt, die Pressluft sollte von einem Druckregler von 2 bis 5 bar geregelt werden. Die Arbeitsgeschwindigkeit, ist über ein Messingventil das direkt in das Gerät eingebaut wurde, regulierbar.
- FR** Mécanisme de transfert de matériel par un système vibrant pneumatique, de très petite taille, applicable également dans les points d'évacuation inconfortables des pièces. Grâce à une glissière, il est possible d'appliquer des goulottes de différentes dimensions, selon les besoins de l'application. Cette glissière est équipée d'un système de réglage de l'inclinaison. Le système est activé par le raccordement au réseau d'air comprimé, préalablement filtré par un régulateur de pression de 2 à 5 bars. La vitesse de travail est réglable grâce à une vanne en laiton insérée directement dans l'outil.



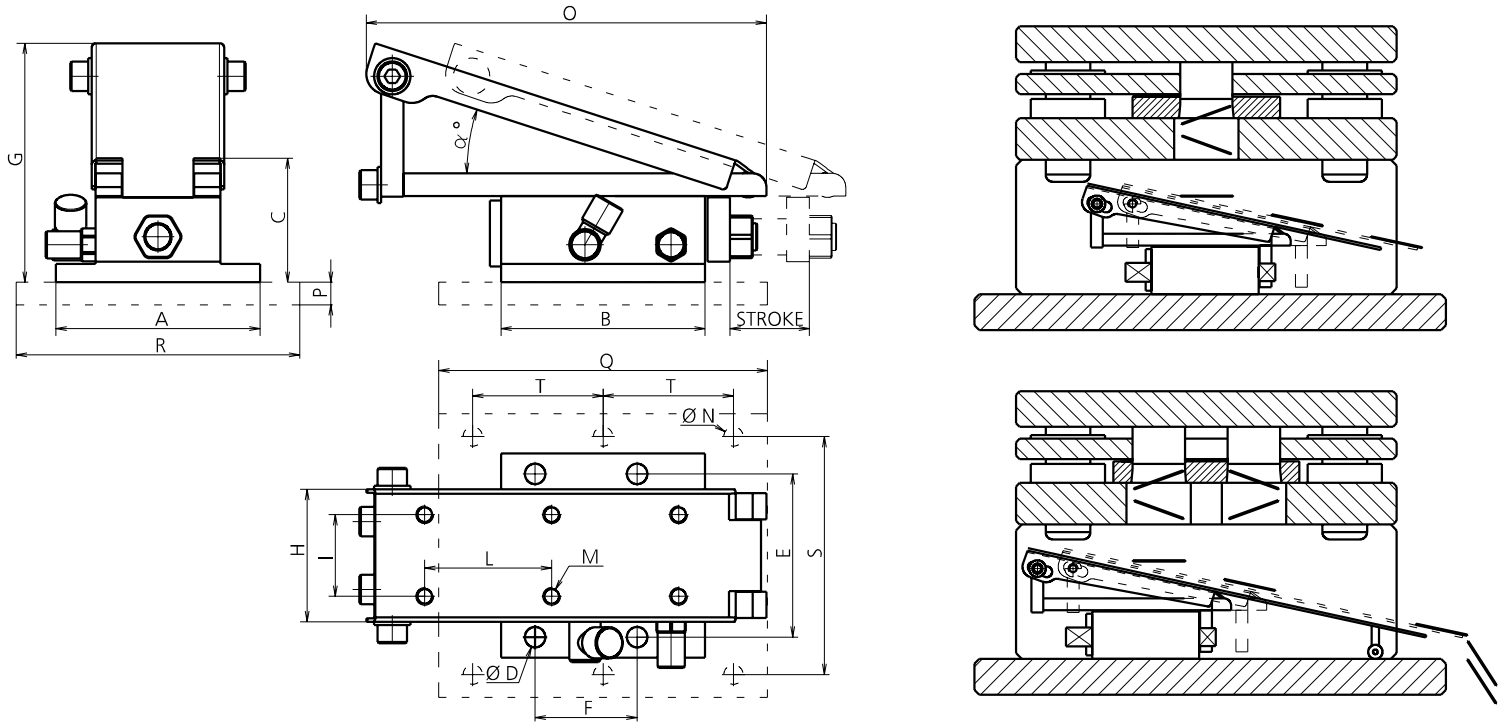
### PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE





# 0801 - EVACUATORE PNEUMATICO

PNEUMATIC EJECTORS / PNEUMATISCHE TEILEFÖRDER / ÉVACUATEUR PNEUMATIQUE



ALIMENTAZIONE AD ARIA COMPRESSA / FEED AIR COMPRESSED / SPEISUNG MIT PRESSLUFT / ALIMENTATION À AIR COMPRIMÉ

| MODEL     | WORKPRESSURE | A   | B   | C  | D     | E   | F  | G MAX | H  | I  | L  | M  | N     | O   | P  | Q   | R   | S   | T    | α° MAX - MIN | STROKE | MAX LOAD |
|-----------|--------------|-----|-----|----|-------|-----|----|-------|----|----|----|----|-------|-----|----|-----|-----|-----|------|--------------|--------|----------|
| 0801.0005 | 2/5 BAR      | 90  | 90  | 29 | Ø 8.5 | 72  | 45 | 83    | 58 | 36 | 56 | M8 | \     | 180 | \  | \   | \   | \   | \    | 18°-7°       | 26     | 5 KG     |
| 0801.0010 | 2/5 BAR      | 90  | 90  | 52 | Ø 9   | 72  | 45 | 105   | 60 | 36 | 56 | M8 | \     | 175 | \  | \   | \   | \   | \    | 20°-4°       | 30     | 10 KG    |
| 0801.0025 | 2/5 BAR      | 100 | 106 | 63 | Ø 9   | 82  | 55 | 125   | 70 | 44 | 62 | M8 | \     | 190 | \  | \   | \   | \   | \    | 20°-4°       | 36     | 25 KG    |
| 0801.0050 | 2/5 BAR      | 120 | 120 | 72 | Ø 9   | 102 | 96 | 140   | 96 | 56 | 70 | M8 | \     | 220 | \  | \   | \   | \   | \    | 20°-4°       | 45     | 50 KG    |
| 0801.F010 | 2/5 BAR      | \   | \   | 52 | \     | \   | \  | 105   | 60 | \  | \  | M8 | Ø 8.5 | 175 | 10 | 145 | 125 | 105 | 57.5 | 20°-4°       | 30     | 10 KG    |
| 0801.F050 | 2/5 BAR      | \   | \   | 72 | \     | \   | \  | 140   | 96 | \  | \  | M8 | Ø 9   | 220 | 10 | 208 | 140 | 127 | 63.5 | 20°-4°       | 45     | 50 KG    |

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

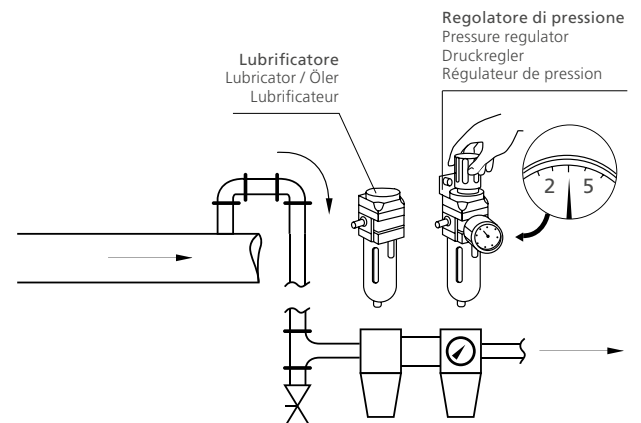
MODEL **0801** MAX LOAD **0005** OPTION CODE **9026.001**

INSERIRE UN REGOLATORE DI PRESSIONE E UN LUBRIFICATORE / PLACE A PRESSURE REGULATOR AND LUBRICATOR / EINEN DRUCKREGLER UND ÖLER EINBAUEN  
INSÉRER UN RÉGULATEUR DE PRESSION ET UN LUBRIFICATEUR

| CODE     | DESCRIPTION  | Q.TY      |
|----------|--|-----------|
| 9026.001 | KIT REGOLATORE+LUBRIFICATORE<br>KIT REGULATOR+LUBRICATOR/ KIT DRUCKREGLER UND ÖLER | *1 OPTION |

9026.001 KIT REGOLATORE+LUBRIFICATORE KIT REGULATOR+LUBRICATOR/ KIT DRUCKREGLER UND ÖLER

**⚠ ATTENZIONE:**  
L'aria compressa deve essere pulita e priva di condensa!  
ATTENTION:  
The compressed air must be clean and free of condensation!  
ACHTUNG:  
Die Pressluft muss sauber und kondensatfrei sein!  
Attention:  
L'air comprimé doit être propre et sans condensation!

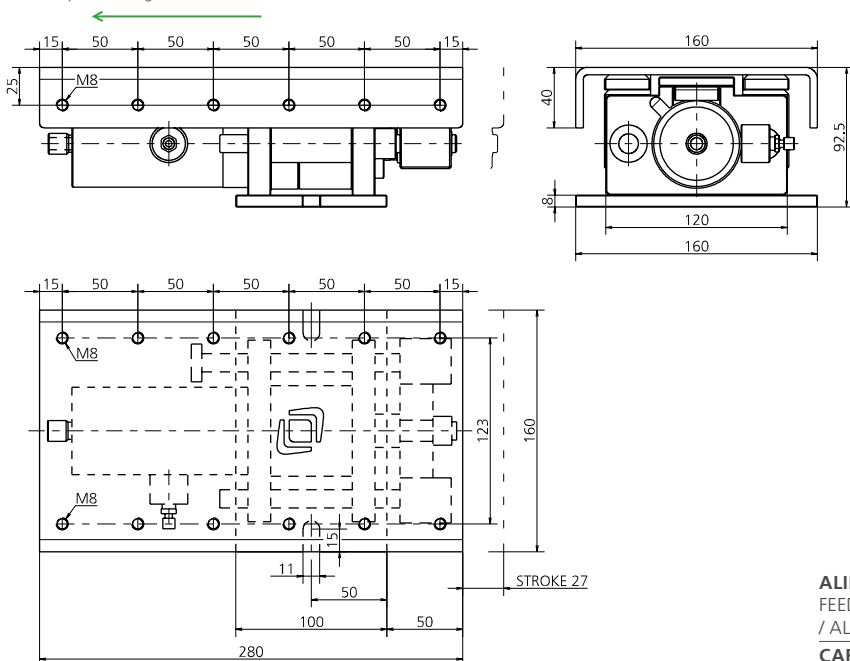




## 0804.0040 - EVACUATORE PNEUMATICO

PNEUMATIC EJECTORS / PNEUMATISCHE TEILEFÖRDER / ÉVACUATEUR PNEUMATIQUE

Direzione di avanzamento / Direction of travel  
Transportrichtung / Direction d'avancement



|   |                   |
|---|-------------------|
| <b>ALIMENTAZIONE AD ARIA COMPRESSA</b><br>FEED AIR COMPRESSED / SPEISUNG MIT PRESSLUFT<br>/ ALIMENTATION À AIR COMPRIMÉ | <b>4/5.5 BAR</b>  |
| <b>CARICO MASSIMO / MAXIMUM LOAD</b><br>/ MAXIMALE BELASTUNG/ CHARGE MAXIMALE   | <b>40 kg</b>      |
| <b>CONSUMO D'ARIA /AIR CONSUMPTION</b><br>/ LUFTVERBRAUCH/ CONSOMMATION D'AIR   | <b>5.42 l/min</b> |
| <b>RUMORE / NOICE/ GERÄUSCH/ BRUIT</b>  | <b>70 db-A</b>    |

| CODE                      | DESCRIPTION              | Q.TY      |
|---------------------------|--------------------------|-----------|
| <b>8107.0803.0040.001</b> | KIT RICAMBI / REPAIR KIT | *1 OPTION |

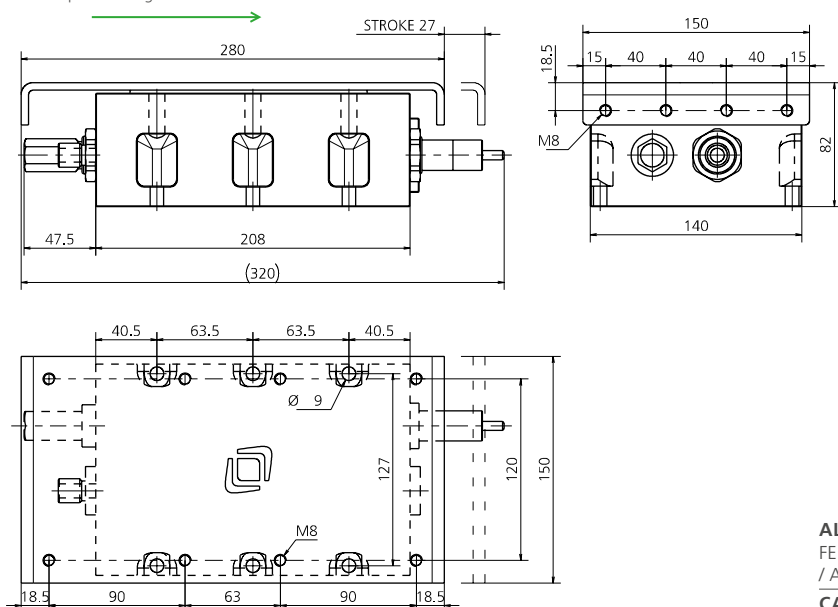
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0804** MAX LOAD **0040** OPTION CODE **9026.001**

## 0804.0070 - EVACUATORE PNEUMATICO

PNEUMATIC EJECTORS / PNEUMATISCHE TEILEFÖRDER / ÉVACUATEUR PNEUMATIQUE

Direzione di avanzamento / Direction of travel  
Transportrichtung / Direction d'avancement



|   |                   |
|---|-------------------|
| <b>ALIMENTAZIONE AD ARIA COMPRESSA</b><br>FEED AIR COMPRESSED / SPEISUNG MIT PRESSLUFT<br>/ ALIMENTATION À AIR COMPRIMÉ | <b>4/5.5 BAR</b>  |
| <b>CARICO MASSIMO / MAXIMUM LOAD</b><br>/ MAXIMALE BELASTUNG/ CHARGE MAXIMALE   | <b>70 kg</b>      |
| <b>CONSUMO D'ARIA /AIR CONSUMPTION</b><br>/ LUFTVERBRAUCH/ CONSOMMATION D'AIR   | <b>5.42 l/min</b> |
| <b>RUMORE / NOICE/ GERÄUSCH/ BRUIT</b>  | <b>70 db-A</b>    |

| CODE                      | DESCRIPTION              | Q.TY      |
|---------------------------|--------------------------|-----------|
| <b>8107.0803.0070.001</b> | KIT RICAMBI / REPAIR KIT | *1 OPTION |

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0804** MAX LOAD **0070** OPTION CODE **9026.001**



# EVACUATORI ELETTRICI

ELECTRICAL EJECTORS / ELEKTRISCHE TEILEFÖRDER  
ÉVACUATEURS ÉLECTRIQUES



## EVACUATORI ELETTRICI

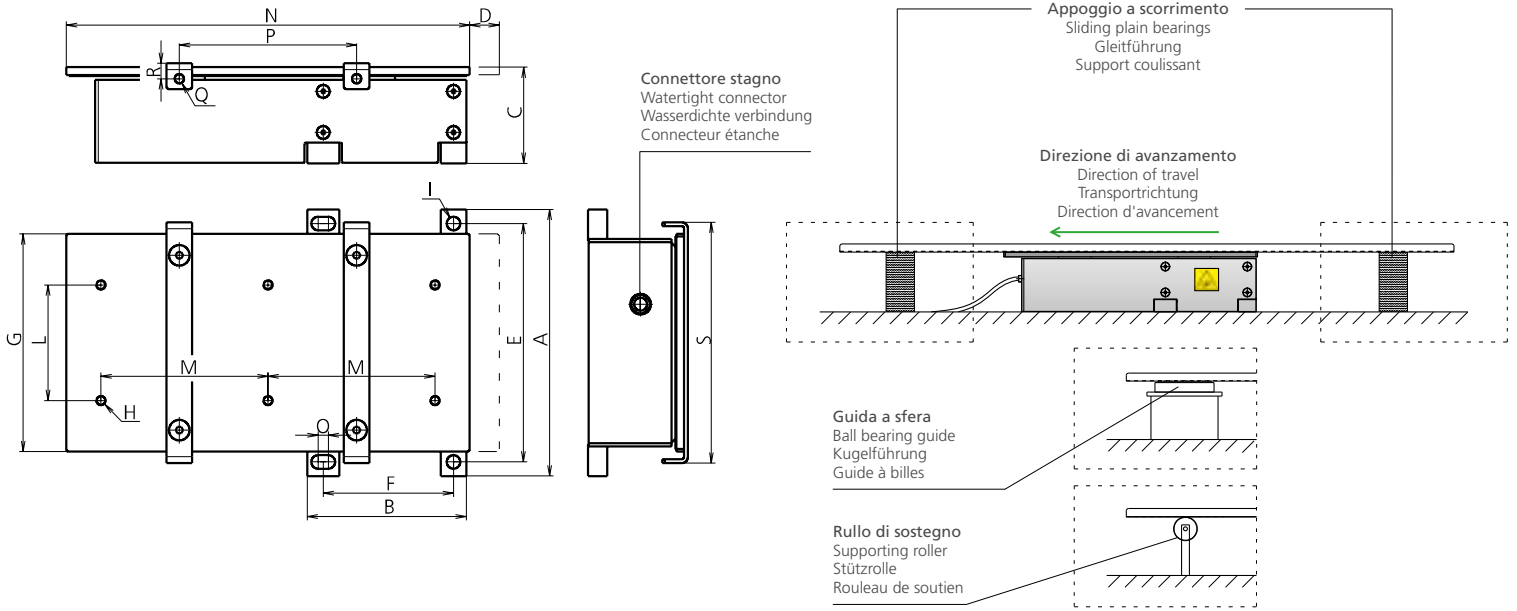
ELECTRICAL EJECTORS / ELEKTRISCHE TEILEFÖRDER / ÉVACUATEURS ÉLECTRIQUES

- IT** Meccanismo di trasferimento di materiali attraverso sistema elettrico vibrante, di dimensioni ridotte, applicabile anche in punti di scomoda evacuazione dei pezzi. Attraverso una slitta si possono applicare scivoli di dimensioni diverse, a seconda delle esigenze applicative e l'operatività è garantita anche in orizzontale. Il sistema viene attivato tramite allacciamento alla rete elettrica 24 V. La centralina di alimentazione, collegata all'evacuatore per mezzo di un connettore stagno, è dotata di una spia luminosa di STANDBY, un interruttore ON/OFF, un potenziometro per regolarne la velocità ed un relè di sicurezza che permette di salvaguardare il motore.
- EN** Material conveyor mechanism trough electrical vibrant system, with small dimensions, applicable even in evacuation uneasy situations. Depending on application requirements, by mean of a slide, different sizes of plates can be applied. The ejector operation is guaranteed also in horizontal position. The system is activated trough electrical connection 24 V. The power supply control unit, connected to the ejector through a watertight connector, is equipped with a STANDBY warning light, an ON/OFF switch, a potentiometer to adjust the speed and a safety relay that avoids engine damages.
- DE** Transportmechanismus für Teile. Die Bewegung erfolgt durch ein schwingendes elektrisches System, dass an einigen Punkten befestigt werden kann. Je nach Anforderungen können Transportbleche unterschiedlicher Abmessungen angebracht werden. Die Arbeitsweise der Schwingförderes wird auch in der horizontalen Position garantiert. Das System arbeitet mit einer 24 V Strom Versorgung. Die Stromversorgung ist in einem wasserdichten Gehäuse untergebracht und besitzt eine Anzeileuchte, einen ON/OFF Schalter, ein Potentiometer zur Einstellung der Geschwindigkeit und ein Sicherheitsrelais, um den Motor sicher und sparsam laufen zu lassen.
- FR** Mécanisme de transfert de matériaux par un système vibrant électrique, de très petite taille, applicable également dans les points d'évacuation inconfortables des pièces. Grâce à une glissière, il est possible d'appliquer des goulottes de différentes dimensions, selon les besoins de l'application et le fonctionnement est garanti aussi à l'horizontale. Le système est activé par un raccordement au réseau électrique de 24 V. La centrale d'alimentation, reliée à l'évacuateur par un connecteur étanche, est équipée d'un témoin lumineux STANDBY, d'un interrupteur ON/OFF, d'un potentiomètre pour régler la vitesse et d'un relais de sécurité pour protéger le moteur.



### PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE





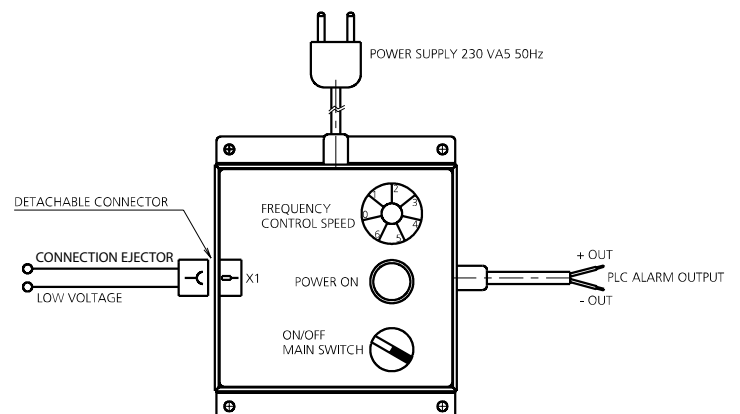
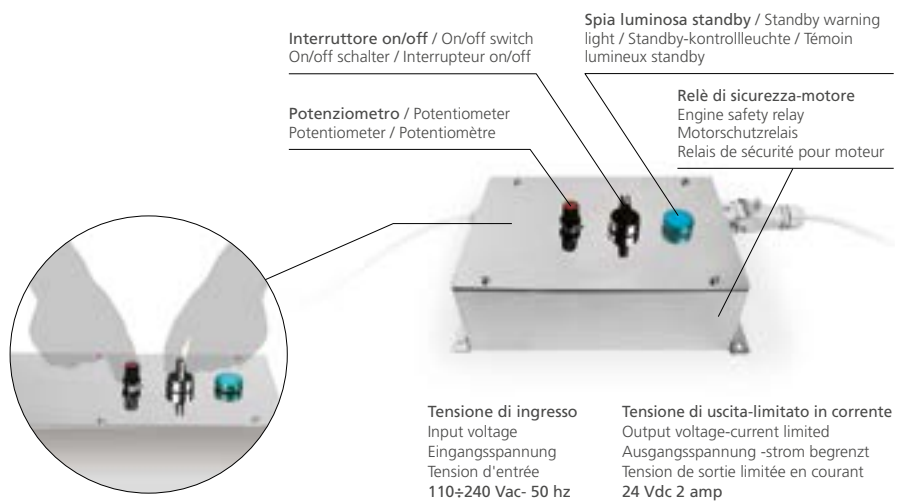
| MODEL            | A     | B   | C  | D  | E     | F     | G     | H  | I      | L  | M   | N   | O | P   | Q  | R  | S     | MAX LOAD |
|------------------|-------|-----|----|----|-------|-------|-------|----|--------|----|-----|-----|---|-----|----|----|-------|----------|
| <b>0802.0010</b> | 141   | 86  | 58 | 15 | 127   | 67,5  | 118   | M8 | Ø 8.5  | 70 | 75  | 208 | 8 | 100 | M8 | 12 | 136   | 10 KG    |
| <b>0802.0025</b> | 207.5 | 124 | 75 | 23 | 185.5 | 101.5 | 169.5 | M8 | Ø 10.5 | 90 | 130 | 314 | 8 | 138 | M8 | 12 | 187.5 | 25 KG    |

| CODE            | DESCRIPTION   | Q.TY     |
|-----------------|---|----------|
| <b>8054.001</b> | CENTRALINA/ POWER SUPPLY CONTROL UNIT/<br>STROMVERSÖRGUNG | 1*OPTION |

**DIMENSIONI CENTRALINA**  
 DIMENSIONS CONTROL UNIT  
 GRÖSSE STROMVERSÖRGUNG  
 DIMENSIONS CENTRALE  
 161 x 171 x 82 (h) mm

**LA CENTRALINA SUPPORTA UN EVACUATORE**  
 THE CONTROL UNIT SUPPORTS AN EJECTOR  
 DIE STROMVERSÖRGUNG STÜTZT BIS ZU EIN SCHWINGFÖRDER  
 LA CENTRALE SOUTIENT UN ÉVACUATEUR

**8054.001 CENTRALINA/ POWER SUPPLY CONTROL UNIT/ STROMVERSÖRGUNG**



MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0802** MAX LOAD **0010** OPTION CODE **8054.001**



# EVACUATORI ELETTRICI

ELECTRICAL EJECTORS / ELEKTRISCHE TEILEFÖRDER  
ÉVACUATEURS ÉLECTRIQUES



# STAFFE

BRACKETS / HALTESTÜCK / ÉTRIERS



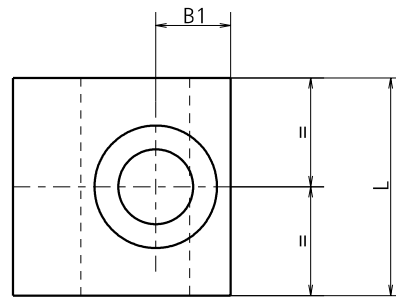
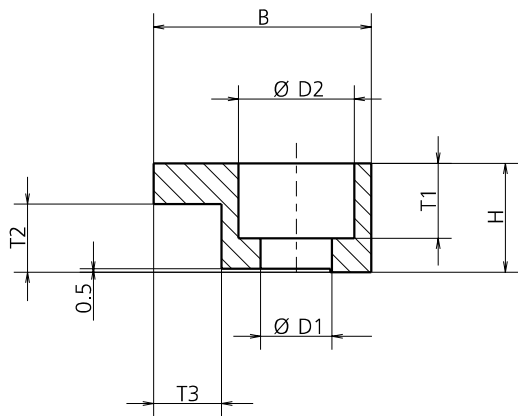
## STAFFE

BRACKETS / HALTESTÜCK / ÉTRIERS

- IT** Staffe standard per bussole e colonne estraibili.
- EN** Standard brackets for bushing and extractable columns.
- DE** Haltestück für Buchsen und Wechselsäule mit Bund.
- FR** Étrier standard pour manchon et colonne extractibles.







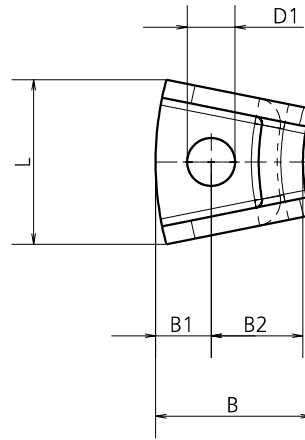
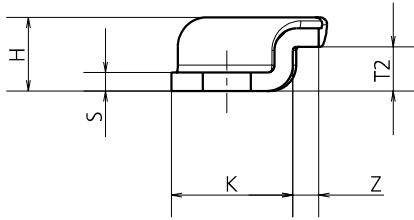
MATERIALE / MATERIAL / MATERIAL / MATÉRIAU  
S235JRC

| MODEL         | B  | L  | H  | B1  | D1  | D2 | T1  | T2  | T3 |
|---------------|----|----|----|-----|-----|----|-----|-----|----|
| 0501.2020.006 | 20 | 20 | 10 | 7.5 | 6.5 | 11 | 7   | 6.3 | 5  |
| 0501.2520.006 | 25 | 20 | 12 | 10  | 9   | 15 | 8.5 | 6.3 | 5  |
| 0501.3225.006 | 32 | 25 | 16 | 11  | 11  | 18 | 11  | 6.3 | 10 |
| 0501.3232.010 | 32 | 32 | 16 | 11  | 11  | 18 | 11  | 10  | 10 |
| 0501.3232.006 | 32 | 32 | 16 | 11  | 11  | 18 | 11  | 6.3 | 10 |
| 0501.2520.005 | 25 | 20 | 12 | 10  | 9   | 15 | 8.5 | 5.3 | 5  |



MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0501** DIMENSIONS **2020.006**



MATERIALE / MATERIAL / MATERIAL / MATÉRIAU  
S400MC

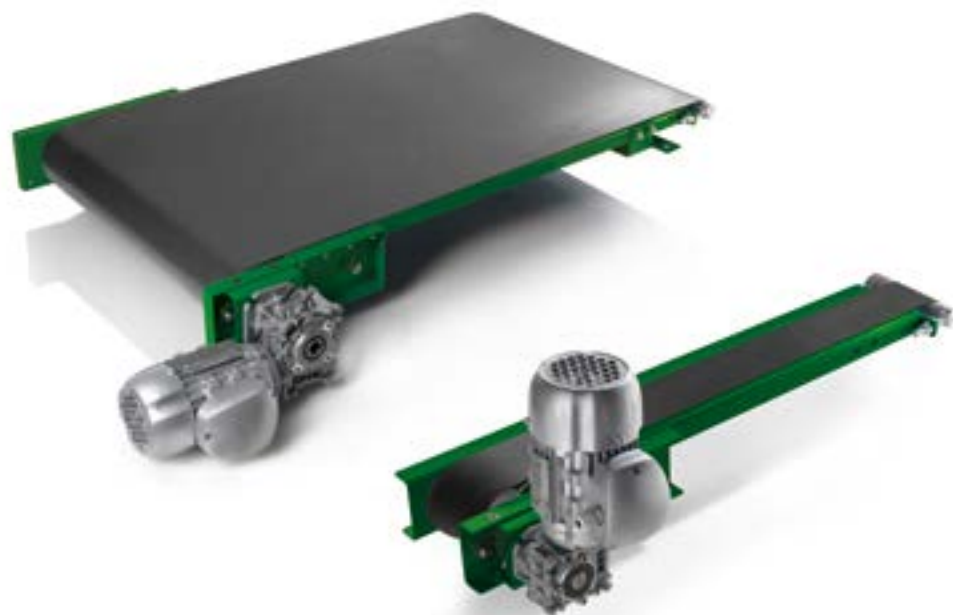
| MODEL                | B    | B1  | B2   | Ø D1 | H  | K    | L    | S   | T2 | Z   |
|----------------------|------|-----|------|------|----|------|------|-----|----|-----|
| <b>0502.2221.005</b> | 21   | 7.5 | 12.5 | 6.5  | 10 | 16.5 | 20.5 | 2.5 | 5  | 3.5 |
| <b>0502.2221.006</b> | 21   | 7.5 | 12.5 | 6.5  | 10 | 16.5 | 20.5 | 2.5 | 6  | 3.5 |
| <b>0502.3025.005</b> | 25.5 | 9.5 | 15   | 9    | 13 | 21   | 30   | 3   | 5  | 3.5 |
| <b>0502.3025.006</b> | 25.5 | 9.5 | 15   | 9    | 13 | 21   | 30   | 3   | 6  | 3.5 |





# NASTRI TRASPORTATORI

FLAT CONVEYOR BELTS / FÖRDERBÄNDER FLACHES BAND  
CONVOYEURS



# NASTRI TRASPORTATORI

FLAT CONVEYOR BELTS / FÖRDERBÄNDER FLACHES BAND / CONVOYEURS

**IT** Il nastro trasportatore è un sistema azionato da forza elettrica che permette il trasferimento di materiali.

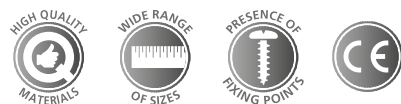
**EN** Material convey system through a belt driven by electric force.

**DE** Materialtransfersystem durch ein elektrisch angetriebenes Band.

**FR** Le convoyeur est un système à entraînement électrique qui permet le transfert des matériaux.



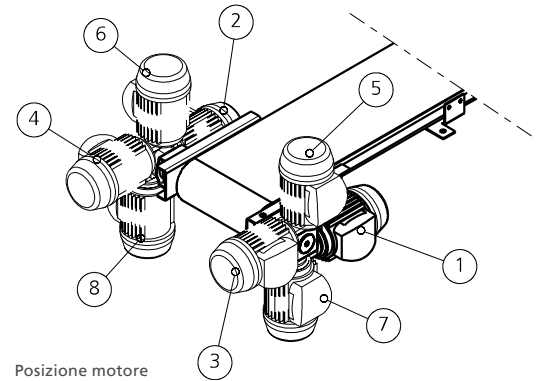
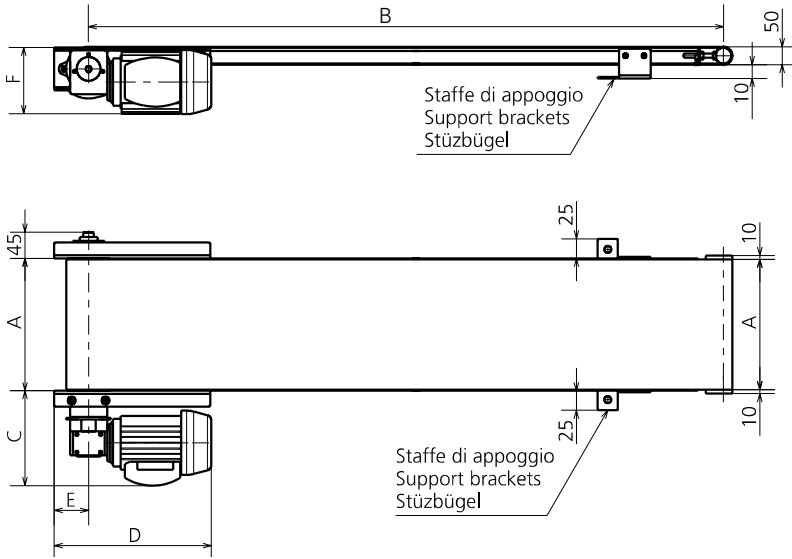
PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE





# 0701 - NASTRO TRASPORTATORE PIANO

FLAT CONVEYOR BELT / FÖRDERBÄNDER FLACHES BAND / CONVOYEUR PLAT



Posizione motore / Motor position / Motorposition

**MATERIALE DEL TAPPETO / BELT MATERIAL / BAND MATERIAL / MATÉRIAU DU TAPIS**  
Poliuretano / Polyurethane / Polyurethan / Polyuréthane

**VELOCITÀ NASTRO / BELT SPEED / BANDGESCHWINDIGKEIT / VITESSE DU TAPIS**

- 1 Fissa / Fixed / Feststehende / Fixe
- 1 BOX 25 =5.8m/1' / BOX 30 =4.4m/1' / BOX 40 =4.4m/1'
- 2 Fissa 2 / Fixed / Feststehende / Fixe
- 2 BOX 25 =11.7m/1' / BOX 30 =11.7m/1' / BOX 40 =8.8m/1'

| MOTOR | C   | D   | E  | F   |
|-------|-----|-----|----|-----|
| BOX25 | 180 | 300 | 65 | 130 |
| BOX30 | 195 | 310 | 70 | 130 |
| BOX40 | 200 | 325 | 70 | 150 |

• = BOX25    •• = BOX30    ••• = BOX40

| A                | B   |     |      |      |      |      |      |      |      |      |      |
|------------------|-----|-----|------|------|------|------|------|------|------|------|------|
|                  | 500 | 750 | 1000 | 1250 | 1500 | 1750 | 2000 | 2250 | 2500 | 2750 | 3000 |
| <b>30 - 50</b>   | •   | •   | •    | •    | •    | •    | •    | •    | •    | ••   | ••   |
| <b>75 - 100</b>  | •   | •   | •    | •    | •    | •    | •    | ••   | ••   | ••   | ••   |
| <b>125 - 150</b> | ••  | ••  | ••   | ••   | ••   | ••   | ••   | ••   | ••   | ••   | ••   |
| <b>175 - 200</b> | ••  | ••  | ••   | ••   | ••   | ••   | ••   | •••  | •••  | •••  | •••  |
| <b>225 - 250</b> | ••  | ••  | ••   | ••   | ••   | ••   | ••   | •••  | •••  | •••  | •••  |
| <b>275 - 300</b> | ••  | ••  | ••   | ••   | •••  | •••  | •••  | •••  | •••  | •••  | •••  |
| <b>350 - 400</b> | ••  | ••  | •••  | •••  | •••  | •••  | •••  | •••  | •••  | •••  | •••  |
| <b>450 - 500</b> | ••• | ••• | •••  | •••  | •••  | •••  | •••  | •••  | •••  | •••  | •••  |
| <b>550 - 600</b> | ••• | ••• | •••  | •••  | •••  | •••  | •••  | •••  | •••  | •••  | •••  |

| CODE            | DESCRIPTION                             | Q.TY      |
|-----------------|---|-----------|
| <b>9025.001</b> | INTERRUTTORE / SWITCH / SCHALTER ON-OFF | *1 OPTION |

9025.001 INTERRUTTORE / SWITCH / SCHALTER ON-OFF



Cambio direzione Sinistra/Destra  
Change Direction Left / Right  
Richtungänderung Links / Rechts  
Cambio de dirección Izquierda / Derecha  
Changement direction Gauche/Droite

PER RICAMBI INDICARE LA COMMESSA MARCHIATA SUL PRODOTTO / FOR SPARE PARTS INDICATE THE PROJECT NUMBER MARKED ON THE PRODUCT  
BEI ERSATZTEILEN KENNZEICHNEN SIE DIE PROJEKTNUMMER AUF DEM PRODUKT / POUR LES PIÈCES DE RECHANGE INDIQUER LA COMMANDE MARQUÉE SUR LE PRODUIT

MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0701** LENGTH **3000** WIDTH **250** MOTOR POSITION **1** SPEED **2** OPTION CODE **9025.001**



# NASTRI TRASPORTATORI

FLAT CONVEYOR BELTS / FÖRDERBÄNDER FLACHES BAND  
CONVOYEURS













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Non utilizzare in orizzontale.  
No horizontal position.  
Nicht horizontal verwenden.



Non necessitano di lubrificazione durante le produzioni.  
No lubrication is required during work.  
Die Schmierung ist nicht nötig während des Betriebs.



Minimo ingombro.  
Minimum size.  
Minimale Belastung.



Non smontare.  
Do not disassemble.  
Nicht zerlegen.



Brevetto Newstark.  
Patent pending.  
Patent von Newstark.



Divieto d'uso per persone con pacemakers.  
Use forbidden for persons with pacemakers.  
Nutzungsverbot für Personen mit Herzschrittmachern.



Inserire un regolatore di pressione lubrificatore.  
Place a pressure regulator and lubricator.  
Einen Druckregler und Öler einbauen.



Prodotto su misura per il cliente.  
Product tailored to the customer.  
Produkt auf den Kunden zugeschnitten.



Sistema patentato con premilamiera ad azoto.  
Patented system with integrated nitrogen stripper.  
Patentiertes System mit Stickstoff-Blechhalter.



Peso di portata.  
Range weight.  
Förderleistung.



La durata della vita dei prodotti Newstark dipende dal corretto uso e manutenzione!  
The duration of lifetime of the Newstark products depends on the proper use and maintenance!  
Die Lebensdauer von den Newstark Produkten hängt von der richtigen Verwendung und Wartung ab!



Varia gamma di carico.  
Different range of load.  
Verschiedene Belastungen.



Ottimo rapporto tra dimensione e potenza.  
Excellent relation between size and power.  
Ausgezeichnetes Verhältnis zwischen Größe und Kraft.



Scorrimenti con materiali autolubrificanti.  
Sliding parts made by self-lubricating materials.  
Schlitten mit selbstschmierenden Materialien.



Micro sensore di sicurezza.  
Security Microsensor.  
Elektronischer Sensor für die Sicherheit.



Ricambi disponibili a magazzino.  
Spare parts on stock.  
Ersatzteile auf Lager.



Realizzazioni di applicazioni speciali.  
Special applications achievement.  
Realisierungen von speziellen Anwendungen.



Applicazioni inclinate.  
Slope application.  
Geneigte Anwendungen.



Staffa di aggancio standard.  
Standard Bracket.  
Standard Befestigung.



Unicità del prodotto.  
Uniqueness of the product.  
Ein einzigartiges Produkt.



Realizzazioni di applicazioni speciali.  
Special applications achievement.  
Realisierungen von speziellen Anwendungen.



Ampia gamma di modelli.  
Wide range of models.  
Große Auswahl an Modellen.



Ampia gamma di modelli.  
Wide range of models.  
Große Auswahl an Modellen.



Molteplici applicazioni.  
Variety of applications.  
Vielzahl von Anwendungen.



Ampia gamma di dimensioni.  
Wide range of dimensions.  
Große Auswahl an Dimensionen.



Lavorazioni combinate.  
To work in combination.  
Kombinierte Bearbeitungen.



Ampia gamma di modelli.  
Wide range of models.  
Große Auswahl an Modellen.



Marchiato CE.  
CE Label.  
CE Kennzeichnung.

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F +39 049 9368154  
info@newstark.it

[newstark.it](http://newstark.it)

