WE MAKE INNOVATION / 2026

newstark®
INNOVATIVE METAL SOLUTIONS

newstark
INNOVATIVE METAL SOLUTIONS

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

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

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

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

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

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

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

Corsa lunga.
Long stroke.
Leistungsstarker Hub.

Intercambiabilità.
Interchangeability.
Austauschbarkeit.

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

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

Unità molto precisa.
Accurate unit.
Einheit sehr präzise.

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 a magazzino.
Product on stock.
Produkt auf Lager.

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

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

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

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

Lunga durata.
Long duration.
Lange Lebensdauer.

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

Inclinazione minima.
Minimum inclination.
Minimale Neigung.

Velocità regolabile.
Adjustable speed.
Regulierbare Geschwindigkeit.

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

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

Prezzo competitivo.
Competitive price.
Wettbewerbsfähigen Preis.

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

Facilità nella manutenzione.
Easy maintenance.
Einfache Wartung.

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

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

Basso consumo.
Low power consumption.
Geringer Verbrauch.

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

Rumorosità minima.
Minimum noise.
Geräuscharm.

newstark®
INNOVATIVE METAL SOLUTIONS

TUV NORD
ISO 9001

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

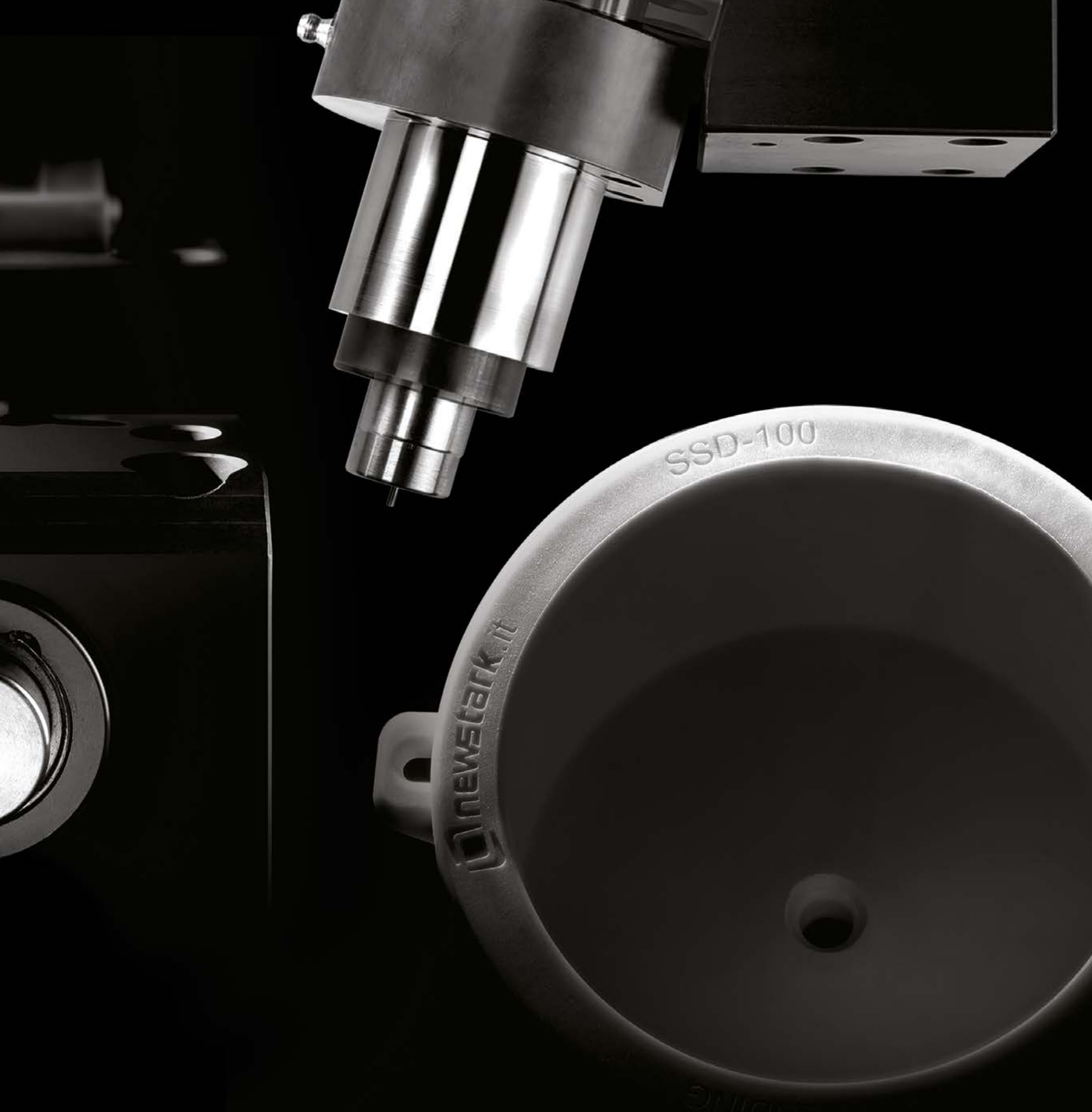
The name of Newstark was born to be leader in innovation of high performance components for dies. Ideal partner to ensure technologically advanced solutions, with specific technical know-how according with your needs for performance and quality. Newstark, a brand of Essemec S.r.l. Unipersonale, company 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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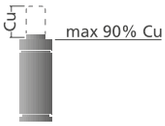
CAMS

	MAE	MASE	SMEG	SUPER SMEG	M/ML	MA	MAS	MASC	MASC COMPACT	ROLLER
PORTA PUNZONE / PUNCH HOLDER / STEMPELHALTER / PORTE-POINÇON										
PUNZONE / PUNCH / STEMPEL / POINÇON	●	●	●		●					
PREMILAMIERA / STRIPPER / BLECHHALTER / SERRE-FLAN					●					
GOMMA-PU / GUMMY-PU / PU-FEDER / CAOUTCHOUC-PU										
MOLLA A GAS / GAS SPRING / GASDRUCKFEDER / RESSORT À GAZ	●	●	●							
PIASTRA PORTA PUNZONE / PUNCH HOLDER PLATE / STEMPELHATTEPLATTE PLAQUE PORTE-POINÇON				●		●	●	●	●	●
TRASMISSIONE D'ENERGIA / POWER TRANSMISSION / KRAFTÜBERTRAGUNG / TRANSMISSION D'ÉNERGIE										
LEVA / LEVER / NOCKEN / LEVIER					●					
LEVA-ROLL / LEVER-ROLL / ROLLNOCKEN / LEVIER-ROLL	●					●				
BATTENTE / PESTLE / KEIL / BATTANT		●	●	●			●	●	●	
BATTENTE-ROLL / PESTLE-ROLL / ROLLKEIL / BATTANT-ROLL										●
RITORNO / RETREAT / RÜCKZUG / RETOUR										
MOLLA DI ACCIAIO / METAL SPRING / DRAHTFEDER / RESSORT EN ACIER			●		●					
MOLLA A GAS / GAS SPRING / GASDRUCKFEDER / RESSORT À GAZ	●	●		●		●	●	●	●	●
FORZA DI LAVORO / THE WORKING FORCE / ÜBERTRAGBARE KRAFT / FORCE D'USINAGE										
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 DÉSACTIVER 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 ANGEGEBENEN. DAHER KANN DER NENNWERT CU KOMPLETT VERWENDET WERDEN. WIR EMPFEHLEN, AUF DIE MAXIMAL AUF DAS RENNEN ANGEGEBEN 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 HERVORRUFEN 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 ANGEGEBENEN 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 HERVORRUFEN 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 ALLPRESSUREBEFOREANYFORMOFHANDLING. / 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.

100%
CUSTOMISABLE
PRODUCT

info@newstark.it

DOWNLOAD
3D FILES

newstark.it

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).

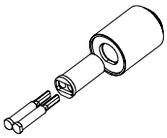
DE Das Top-Modell der Newstark Stanzeinheiten mit einzigartigen und innovativen Lösungen. Die integrierte Stanzeinheit mit Gasdruckfederniederhalter.
Diese bietet einen herausnehmbaren Niederhalterkopf mit bearbeitbarer Kontur und eine Stempelaufnahmemöglichkeit für ISO 8020- Schneidstempel, auch mit 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. Geneigte 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

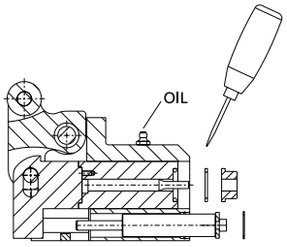
CAM **MAE**

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



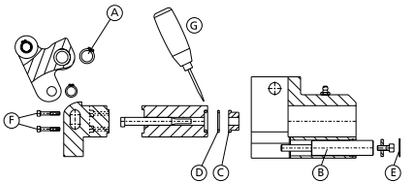
⚠ **È possibile inserire più punzoni nella stessa unità!**
It is possible put more punches in the same unit!
Es ist möglich, setzen mehr Lochstempel in der gleichen Einheit!
Il est possible d'insérer plusieurs poinçons dans la même unité!

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 (MoS2). 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 (MoS2).

DE Achtung: Wartungs-und Demontagearbeiten 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 (MoS2). Die Verwendung dieses Fett wird durch Newstark empfohlen.
7. Auf richtigen Sitz der einzelnen Komponenten achten.

Während des Gebrauches, mit Molybdändisulfidfett (MoS2) nachschmieren.

EN Attention: Undertake reassemly 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 (MoS2).
   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 (MoS2).

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 (MoS2). 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 (MoS2).

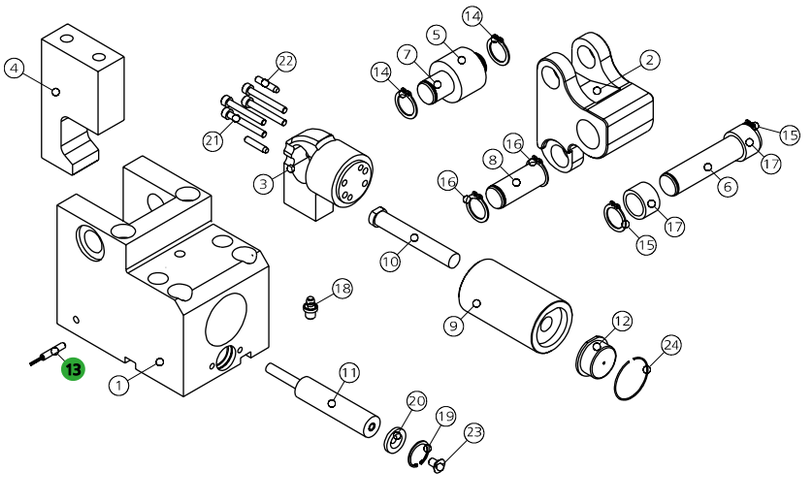
0143.5050 - **CAM MAE505-10**

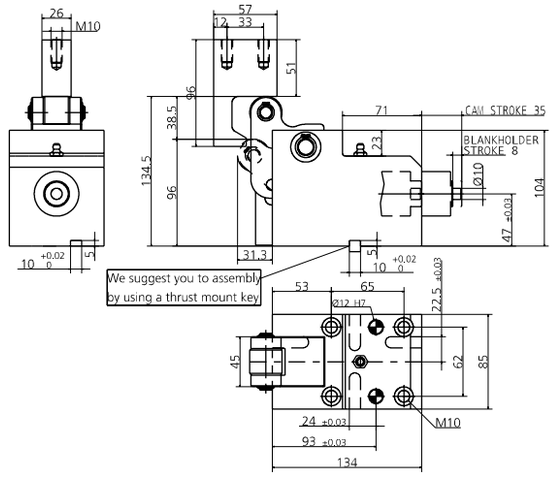
PATENT PENDING

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE / RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION **505 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION / ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION **1110 daN**

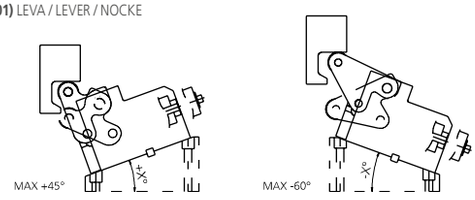
SFORZO MAX TRANCIO / CUTTING MAX FORCE / MAXIMALE SCHNITTKRAFT / EFFORT MAXI DÉCOUPE **4500 daN**



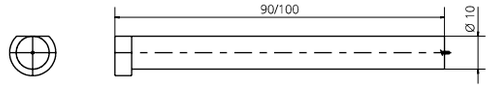


POS.	CODE	DESCRIPTION	Q.TY
001	**8000.0043.0505**	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	**8001.0043.0505.000**	LEVA / LEVER / NOCKE 0	1
002	**8001.0043.0505.615**	LEVA / LEVER / NOCKE +1 +15	1*OPTION
002	**8001.0043.0505.630**	LEVA / LEVER / NOCKE +15,01 +30	1*OPTION
002	**8001.0043.0505.645**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

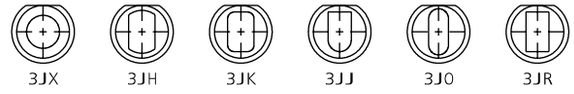
002 (8001) LEVA / LEVER / NOCKE



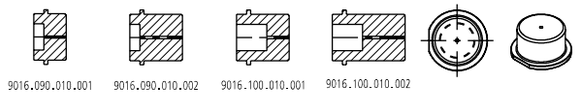
0010 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



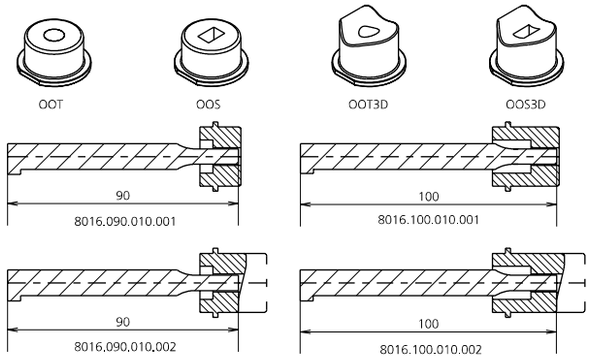
010 (093J_) PUNZONE SAGOMATO / SHAPED PUNCH / GEFORMT SCHNEIDSTEMPEL ISO8020



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



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



013 (9003) SENSORE / SENSOR / SENSOR

13 PATENT PENDING

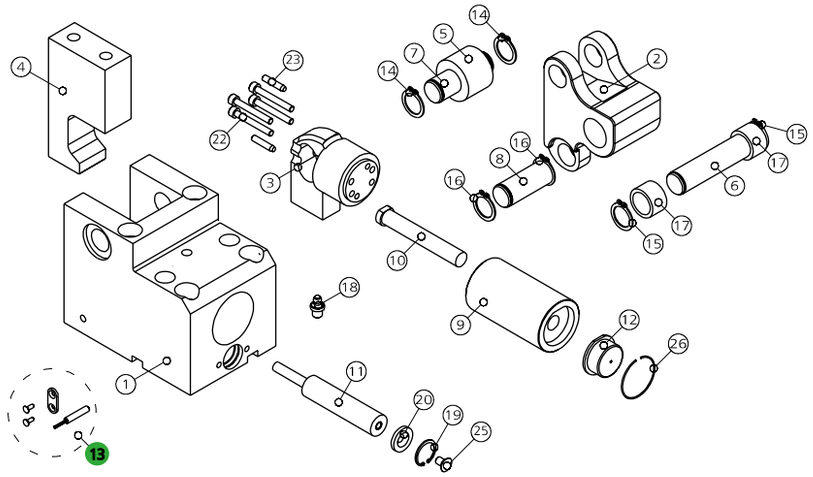
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

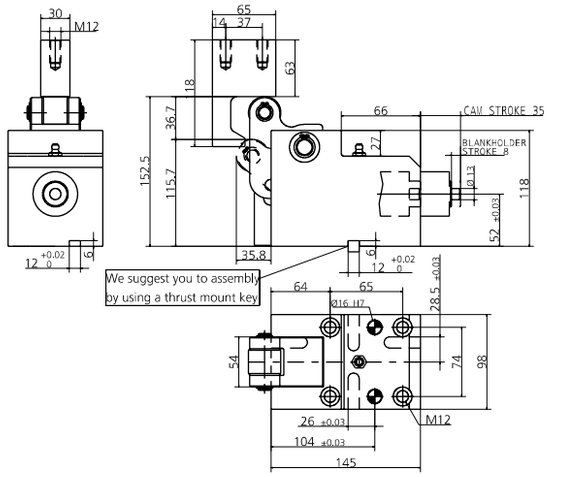
MODEL **0143.5050** INCLINATION **+10°** BLANKHOLDER **9016/8016.** ____ OPTION CODE **8001.0043.0505.615**

0143.6953 - **CAM MAE695-13**

PATENT PENDING

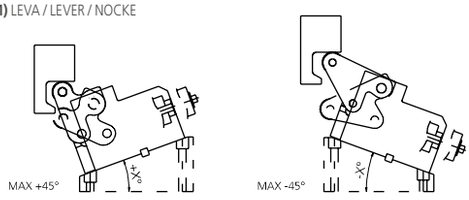
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION	**695 daN**	SFORZO MAX TRANCIO CUTTING MAX FORCE MAXIMALE SCHNITTKRAFT EFFORT MAXI DÉCOUPE	**6000 daN**
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION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



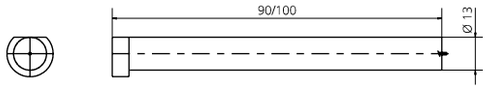


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0043.0695	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8001.0043.0695.000	LEVA / LEVER / NOCKE 0	1
002	8001.0043.0695.615	LEVA / LEVER / NOCKE +0.01 +15	1*OPTION
002	8001.0043.0695.630	LEVA / LEVER / NOCKE +15.01 +30	1*OPTION
002	8001.0043.0695.645	LEVA / LEVER / NOCKE +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	SEEGER / SEEGER / SEEGERRING	2
015	9004.1200.001	SEEGER / SEEGER / SEEGERRING	2
016	9004.1200.001	SEEGER / SEEGER / SEEGERRING	2
017	9005.0116.0020.001	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 / UNTERLEGSCHEIBE	1
022	9007.05.035.129.1.4762	VITE / SCREW / SCHRAUBE M5X35	4
023	9028.050.016.8735	SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D5X16	2
025	9007.06.014.129.1.5933	VITE / SCREW / SCHRAUBE M6X14	1
026	9004.2350.001	SEEGER / SEEGER / SEEGERRING	1

002 (8001) LEVA / LEVER / NOCKE

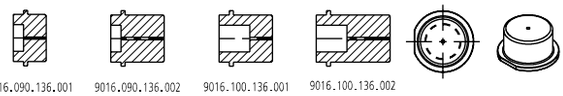


0010 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020

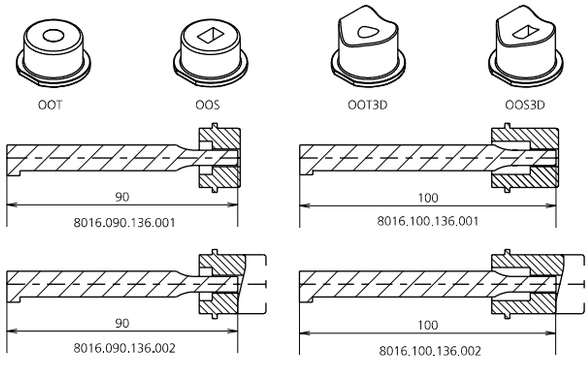


010 (093J_) PUNZONE SAGOMATO / SHAPED PUNCH / GEFORMT SCHNEIDSTEMPEL ISO8020

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



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



013 (8107) SENSORE / SENSOR / SENSOR

13 PATENT PENDING

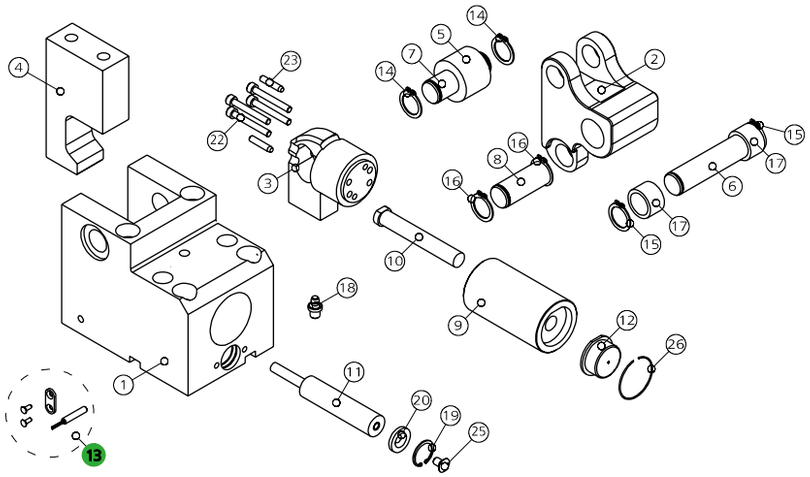
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

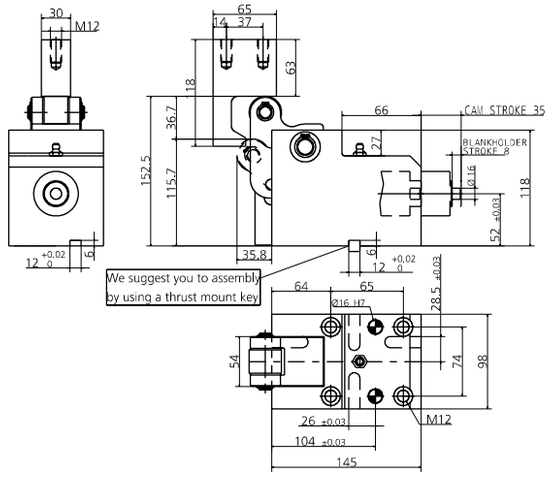
MODEL **0143.6953** INCLINATION **+10°** BLANKHOLDER **9016/8016.____** OPTION CODE **8001.0043.0695.615**

0143.6956 - **CAM MAE695-16**

PATENT PENDING

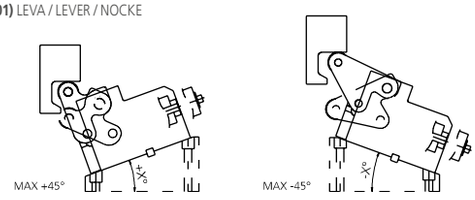
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION	**695 daN**	SFORZO MAX TRANCIO CUTTING MAX FORCE MAXIMALE SCHNITTKRAFT EFFORT MAXI DÉCOUPE	**6000 daN**
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION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



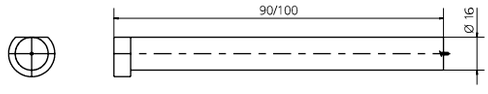


POS.	CODE	DESCRIPTION	Q.TY
001	**8000.0043.0695**	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	**8001.0043.0695.000**	LEVA / LEVER / NOCKE 0	1
002	**8001.0043.0695.615**	LEVA / LEVER / NOCKE +0.01 +15	1*OPTION
002	**8001.0043.0695.630**	LEVA / LEVER / NOCKE +15.01 +30	1*OPTION
002	**8001.0043.0695.645**	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	**9030.016.001**	CILINDRO SPECIALE / SPECIAL CYLINDER / SPEZIALZYLINDER	1
010	**9090.3JBM2.160.090**	PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 90	1*OPTION
010	**9090.3JBM2.160.100**	PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 100	1*OPTION
010	**093J_M2.160.090**	PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 90	1*OPTION
010	**093J_M2.160.100**	PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 100	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	**8107.0143.6956.001**	KIT SENSORE DI SICUREZZA / SECURITY SENSOR KIT / KIT SENSOR FÜR SICHERHEIT	1*OPTION
014	**9004.1200.001**	SEEGER / SEEGER / SEEGERRING	2
015	**9004.1200.001**	SEEGER / SEEGER / SEEGERRING	2
016	**9004.1200.001**	SEEGER / SEEGER / SEEGERRING	2
017	**9005.0116.0020.001**	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 / UNTERLEGSCHEIBE	1
022	**9007.05.035.129.1.4762**	VITE / SCREW / SCHRAUBE M5X35	4
023	**9028.050.016.8735**	SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D5X16	2
025	**9007.06.014.129.1.5933**	VITE / SCREW / SCHRAUBE M6X14	1
026	**9004.2350.001**	SEEGER / SEEGER / SEEGERRING	1

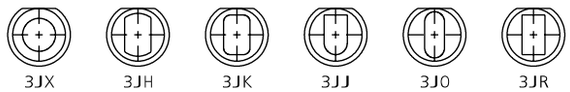
002 (8001) LEVA / LEVER / NOCKE



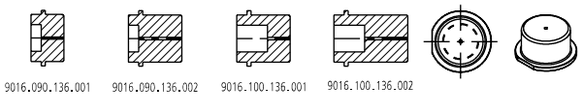
0010 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



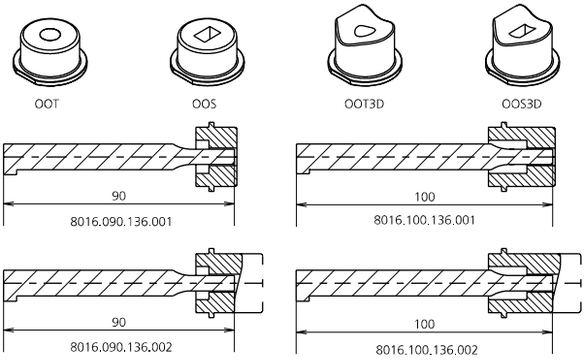
010 (093J_) PUNZONE SAGOMATO / SHAPED PUNCH / GEFORMT SCHNEIDSTEMPEL ISO8020



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



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



013 (8107) SENSORE / SENSOR / SENSOR

13 PATENT PENDING

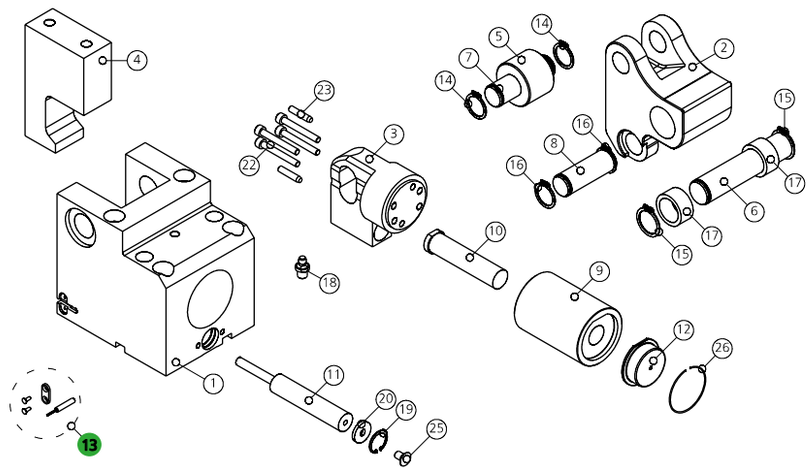
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

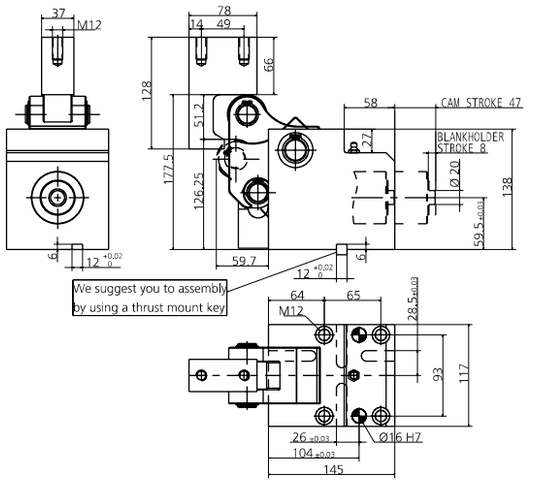
MODEL **0143.6956** INCLINATION **+10°** BLANKHOLDER **9016/8016.____** OPTION CODE **8001.0043.0695.615**

0143.1160 - **CAM MAE1160-20**

PATENT PENDING

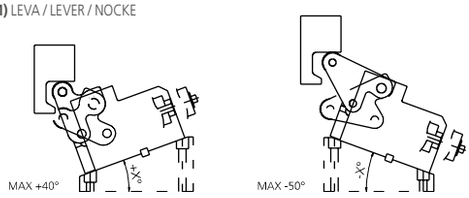
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION	**1160 daN**	SFORZO MAX TRANCIO CUTTING MAX FORCE MAXIMALE SCHNITTKRAFT EFFORT MAXI DÉCOUPE	**9000 daN**
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION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



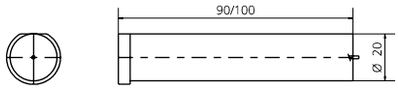


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0043.1160	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8001.0043.1160.000	LEVA / LEVER / NOCKE 0	1
002	8001.0043.1160.610	LEVA / LEVER / NOCKE +0.01 +10	1*OPTION
002	8001.0043.1160.620	LEVA / LEVER / NOCKE +10.01 +20	1*OPTION
002	8001.0043.1160.630	LEVA / LEVER / NOCKE +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 / UNTERLEGSCHEIBE	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

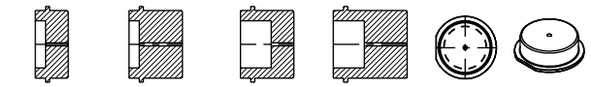


0010 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020

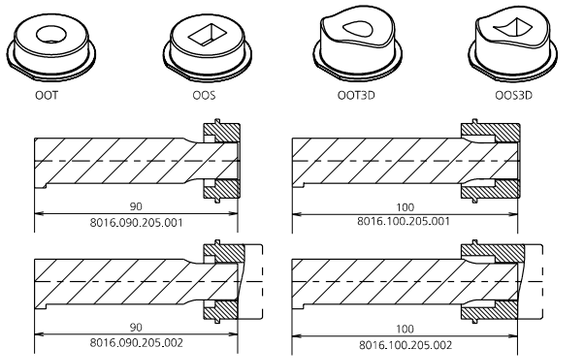


010 (093J_) PUNZONE SAGOMATO / SHAPED PUNCH / GEFORMT SCHNEIDSTEMPEL ISO8020

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



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



013 (8107) SENSORE / SENSOR / SENSOR

13 PATENT PENDING

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

MODEL **0143.1160** INCLINATION **+10°** BLANKHOLDER **9016/8016.____** OPTION CODE **8001.0043.1160.610**

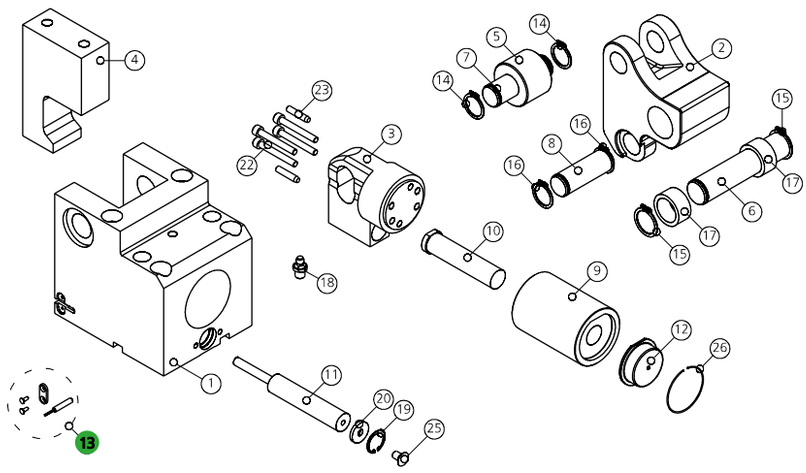
0143.1165 - **CAM MAE1160-25**

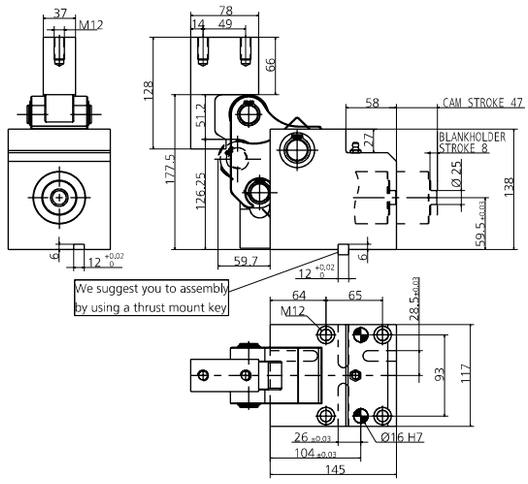
PATENT PENDING

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **1160 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **2550 daN**

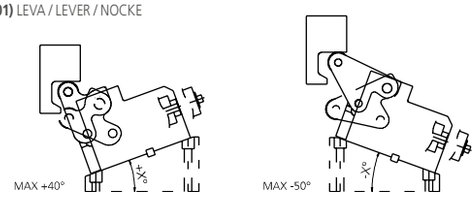
SFORZO MAX TRANCIO
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE — **9000 daN**



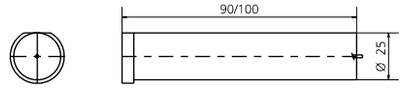


POS.	CODE	DESCRIPTION	Q.TY
001	**8000.0043.1160**	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	**8001.0043.1160.000**	LEVA / LEVER / NOCKE 0	1
002	**8001.0043.1160.610**	LEVA / LEVER / NOCKE +0.01 +10	1*OPTION
002	**8001.0043.1160.620**	LEVA / LEVER / NOCKE +10.01 +20	1*OPTION
002	**8001.0043.1160.630**	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	**9030.025.001**	CILINDRO SPECIALE / SPECIAL CYLINDER / SPEZIALZYLINDER	1
010	**9090.3JBM2.250.090**	PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 25 90	1*OPTION
010	**9090.3JBM2.250.100**	PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 25 100	1*OPTION
010	**093J_M2.250.090**	PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 25 90	1*OPTION
010	**093J_M2.250.100**	PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 25 100	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	**8107.0143.1165.001**	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 / UNTERLEGSCHEIBE	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

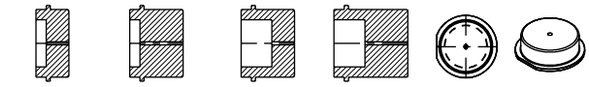


0010 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020

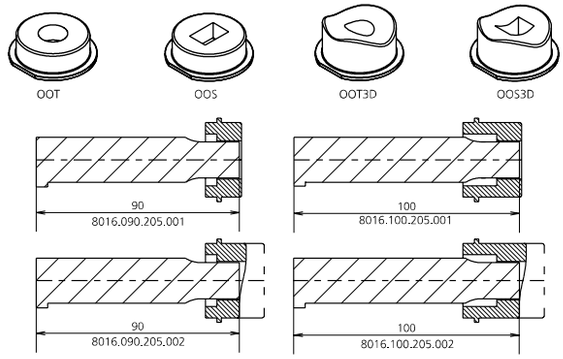


010 (093J_) PUNZONE SAGOMATO / SHAPED PUNCH / GEFORMT SCHNEIDSTEMPEL ISO8020

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



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



013 (8107) SENSORE / SENSOR / SENSOR

13 PATENT PENDING

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

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

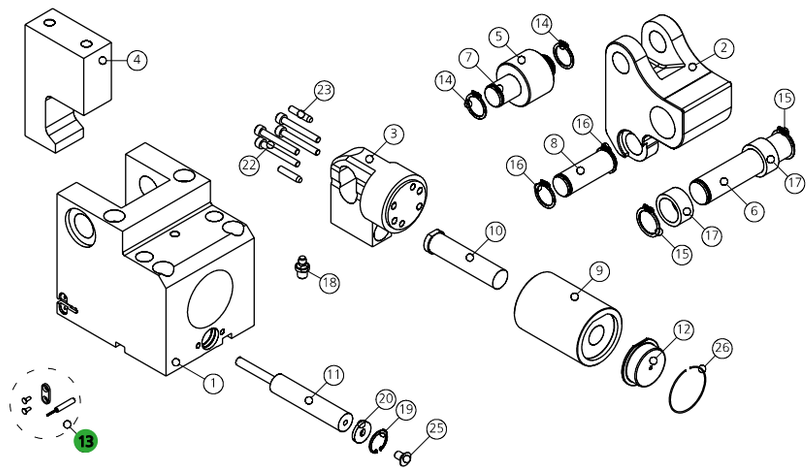
0143.1392 - **CAM MAE1390-32**

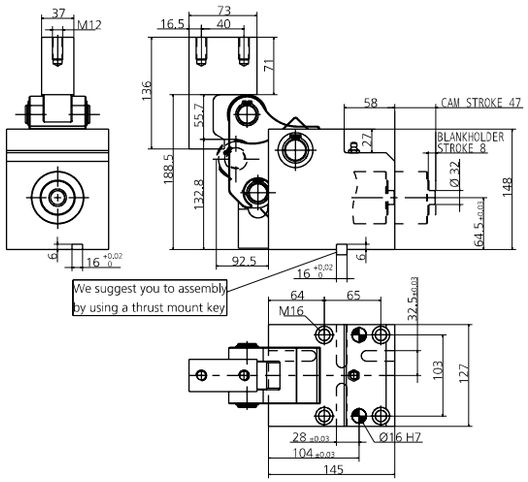
PATENT PENDING

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **1390 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **3050 daN**

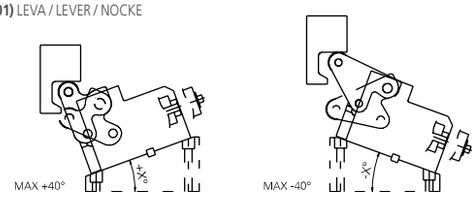
SFORZO MAX TRANCIO — **12000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



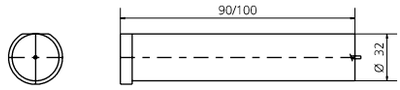


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0043.1390	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8001.0043.1390.000	LEVA / LEVER / NOCKE 0	1
002	8001.0043.1390.610	LEVA / LEVER / NOCKE +0.01 +10	1*OPTION
002	8001.0043.1390.620	LEVA / LEVER / NOCKE +10.01 +20	1*OPTION
002	8001.0043.1390.630	LEVA / LEVER / NOCKE +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 / UNTERLEGSCHEIBE	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

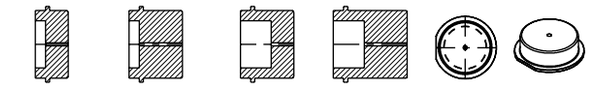


0010 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020

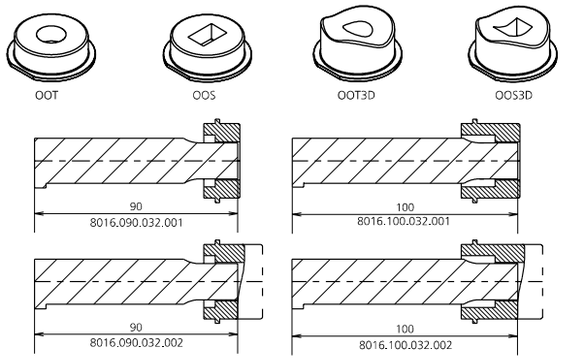


010 (093J_) PUNZONE SAGOMATO / SHAPED PUNCH / GEFORMT SCHNEIDSTEMPEL ISO8020

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**

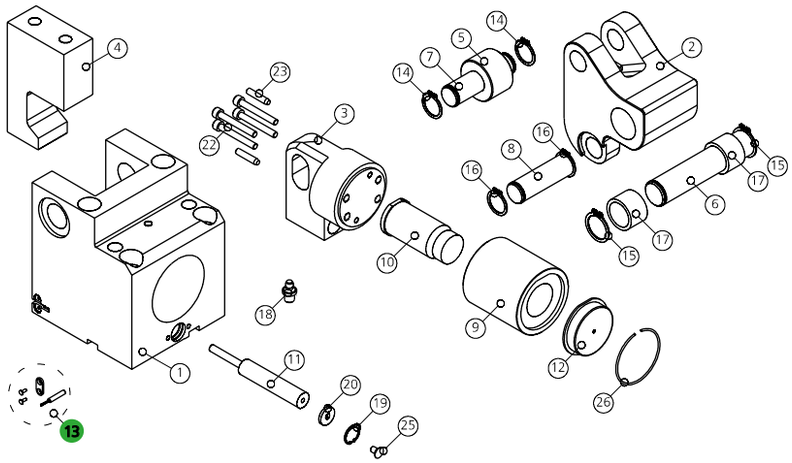
0143.1880 - **CAM MAE1880-40**

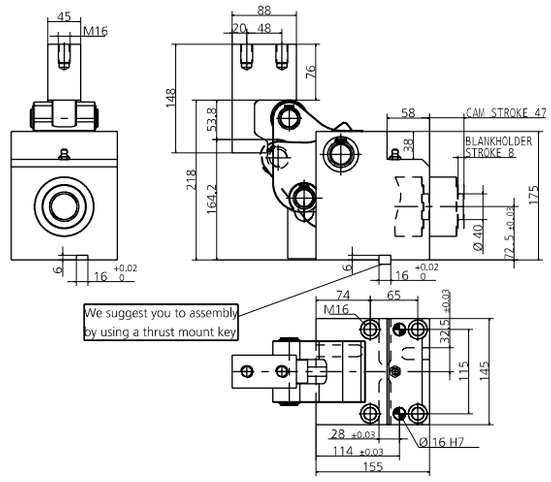
PATENT PENDING

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **1880 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **4100 daN**

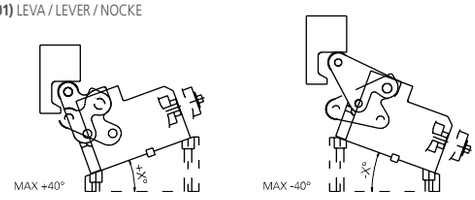
SFORZO MAX TRANCIO
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE — **17000 daN**



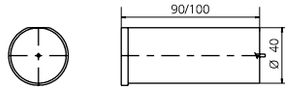


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0043.1880	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8001.0043.1180.000	LEVA / LEVER / NOCKE 0	1
002	8001.0043.1180.610	LEVA / LEVER / NOCKE +0.01 +10	1*OPTION
002	8001.0043.1180.620	LEVA / LEVER / NOCKE +10.01 +20	1*OPTION
002	8001.0043.1180.630	LEVA / LEVER / NOCKE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

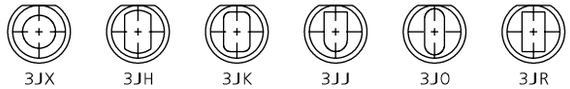
002 (8001) LEVA / LEVER / NOCKE



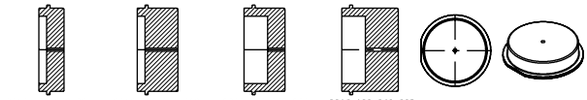
0010 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



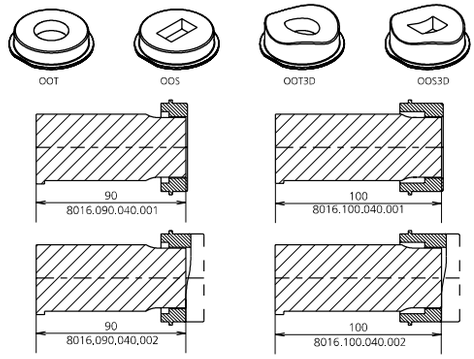
010 (093J_) PUNZONE SAGOMATO / SHAPED PUNCH / GEFORMT SCHNEIDSTEMPEL ISO8020



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 **0143.1880** INCLINATION **+10°** BLANKHOLDER **9016/8016.____** OPTION CODE **8001.0043.1180.610**

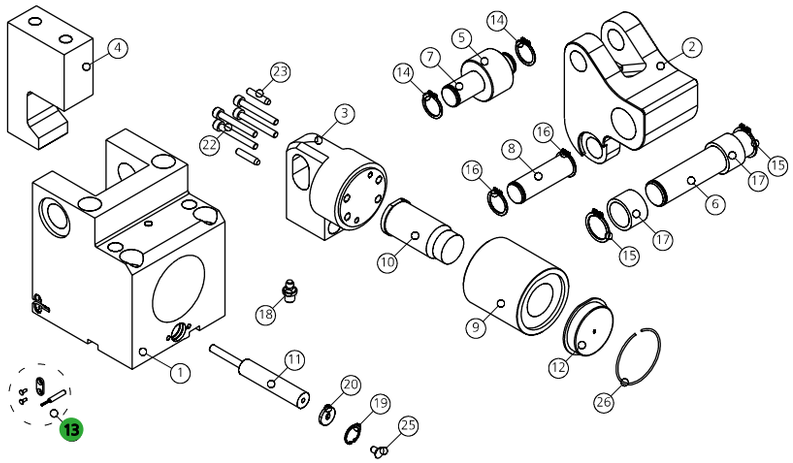
0143.3303 - **CAM MAE3300-63**

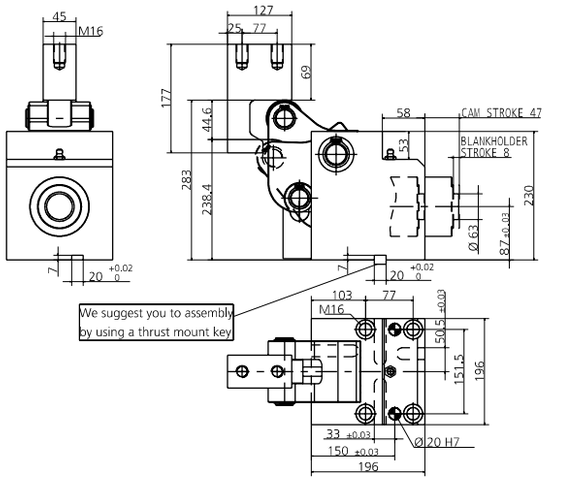
PATENT PENDING

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **3300 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **7250 daN**

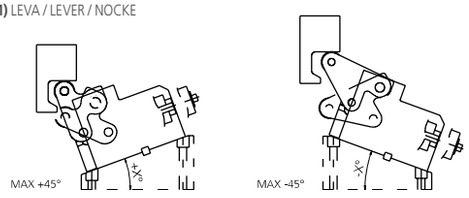
SFORZO MAX TRANCIO — **30000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



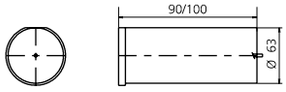


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0043.3300	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8001.0043.3300.000	LEVA / LEVER / NOCKE 0	1
002	8001.0043.3300.615	LEVA / LEVER / NOCKE +0.01 +15	1*OPTION
002	8001.0043.3300.630	LEVA / LEVER / NOCKE +15.01 +30	1*OPTION
002	8001.0043.3300.645	LEVA / LEVER / NOCKE +30.01 +45	1*OPTION
002	8001.0043.3300.715	LEVA / LEVER / NOCKE -0.01 -15	1*OPTION
002	8001.0043.3300.730	LEVA / LEVER / NOCKE -15.01 -30	1*OPTION
002	8001.0043.3300.745	LEVA / LEVER / NOCKE -30.01 -45	1*OPTION
003	8002.0043.3300	FLANGIA / FLANGE / FLANSCH	1
004	8003.1770.1270.450.001	INCUDINE / ANVIL / DRUCKSTÜCK	1*OPTION
005	8004.0700.0400.350.001	ROTELLA / ROLLER / ROLLE	1
006	8005.1955.1838.400.001	PERNO / PIN / STIFT	1
007	8005.1160.1068.350.001	PERNO / PIN / STIFT	1
008	8005.1060.0966.350.001	PERNO / PIN / STIFT	1
009	9030.063.001	CILINDRO SPECIALE / SPECIAL CYLINDER / SPEZIALZYLINDER	1
010	9090.3JBM2.630.090	PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 63 90	1*OPTION
010	9090.3JBM2.630.100	PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 63 100	1*OPTION
010	093J_M2.630.090	PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 63 90	1*OPTION
010	093J_M2.630.100	PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 63 100	1*OPTION
011	9000.0050.0019.001	CILINDRO DI RITORNO / RETURN CYLINDER / RÜCK ZYLINDER	1
012	9016.090.063.001	PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM	1*CHOOSE
012	9016.090.063.002	PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM	1*CHOOSE
012	9016.100.063.001	PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM	1*CHOOSE
012	9016.100.063.002	PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM	1*CHOOSE
012	8016.090.063.001	PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM	1*OPTION
012	8016.090.063.002	PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM	1*OPTION
012	8016.100.063.001	PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM	1*OPTION
012	8016.100.063.002	PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM	1*OPTION
013	8107.0143.3303.001	KIT SENSORE DI SICUREZZA / SECURITY SENSOR KIT / KIT SENSOR FÜR SICHERHEIT	1*OPTION
014	9004.1350.001	SEEGER / SEEGER / SEEGERRING	2
015	9004.1400.001	SEEGER / SEEGER / SEEGERRING	2
016	9004.1350.001	SEEGER / SEEGER / SEEGERRING	2
017	9005.0120.0040.001	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 / UNTERLEGSCHEIBE	1
022	9007.08.045.129.1.4762	VITE / SCREW / SCHRAUBE M8X45	6
023	9028.080.030.8735	SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D8X30	2
025	9007.06.014.129.1.5933	VITE / SCREW / SCHRAUBE M6X14	1
026	9004.2980.001	SEEGER / SEEGER / SEEGERRING	1

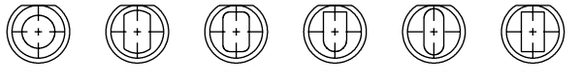
002 (8001) LEVA / LEVER / NOCKE



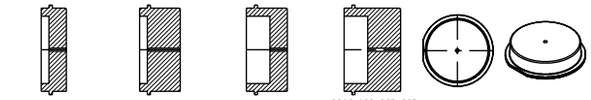
0010 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



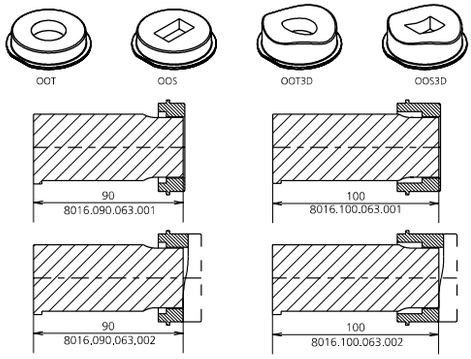
010 (093J_) PUNZONE SAGOMATO / SHAPED PUNCH / GEFORMT SCHNEIDSTEMPEL ISO8020



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 **0143.3303** INCLINATION **+10°** BLANKHOLDER **9016/8016.____** OPTION CODE **8001.0043.3300.615**

100%
CUSTOMISABLE
PRODUCT

info@newstark.it

DOWNLOAD
3D FILES

newstark.it

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.

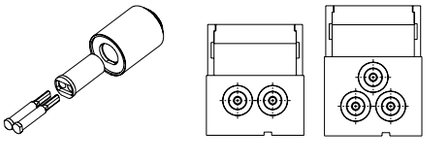
DE Das Top-Modell der Newstark Stanzeinheiten mit einzigartigen und innovativen Lösungen. Die integrierte Stanzeinheit mit Gasdruckfederniederhalter.
Diese bietet einen herausnehmbaren Niederhalterkopf mit bearbeitbarer Kontur und eine Stempelaufnahmemöglichkeit für ISO 8020- Schneidstempel, auch mit 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

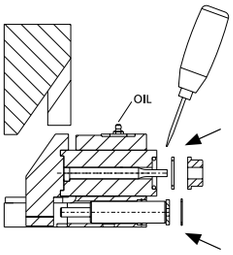
CAM **MASE**

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



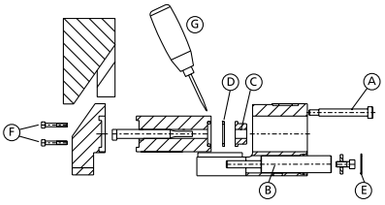
⚠ **È possibile inserire più punzoni nella stessa unità!**
It is possible put more punches in the same unit!
Es ist möglich, setzen mehr Lochstempel in der gleichen Einheit!
Il est possible d'insérer plusieurs poinçons dans la même unité!

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 (MoS2). 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 (MoS2).

DE Achtung: Wartungs-und Demontagearbeiten 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 (MoS2). Die Verwendung dieses Fett wird durch Newstark empfohlen.
7. Auf richtigen Sitz der einzelnen Komponenten achten.

Während des Gebrauches, mit Molybdändisulfidfett (MoS2) nachschmieren.

EN Attention: Undertake reassemly 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 (MoS2).
   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 (MoS2).

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 (MoS2). Newstark recommande l'utilisation de cette graisse.
7. S'assurer que les différents éléments sont correctement repositionnés.

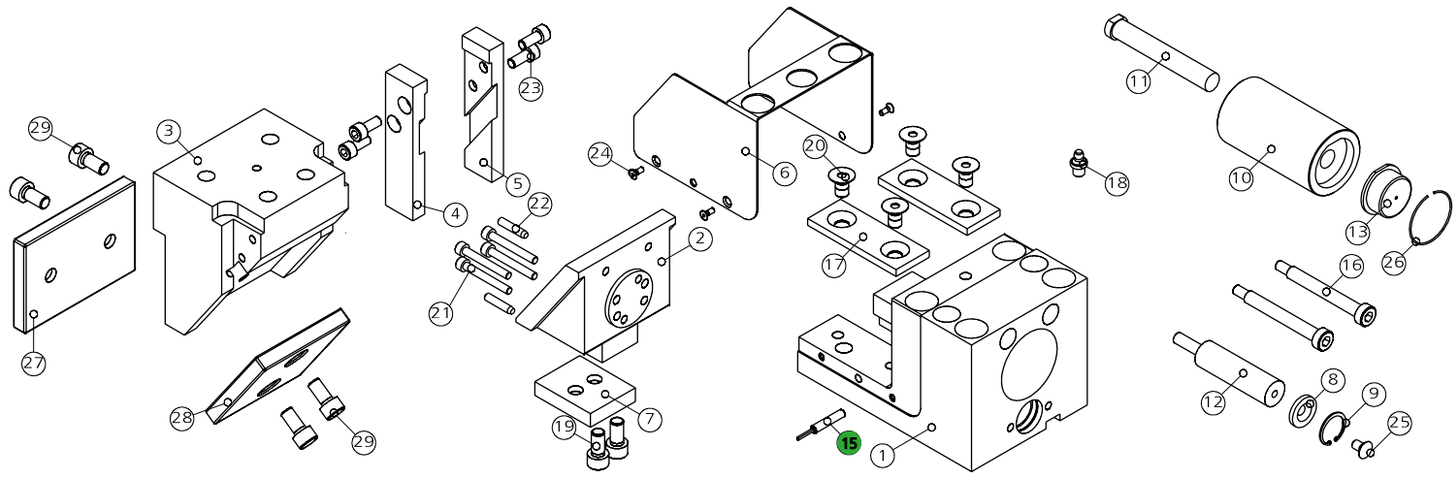
Lubrifier avec de la graisse au bisulfure de molybdène (MoS2).

0147.5050 - **CAM MASE505-10**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **505 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **1110 daN**

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



POS.	CODE	DESCRIPTION	Q.TY
001	8000.0047.0505	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8111.0047.0005.00.001	SLITTA / SLIDER / LAGERKEIL 0°	1*CHOOSE
002	8111.0047.0005.05.001	SLITTA / SLIDER / LAGERKEIL +5°	1*CHOOSE
002	8111.0047.0005.10.001	SLITTA / SLIDER / LAGERKEIL +10°	1*CHOOSE
002	8111.0047.0005.15.001	SLITTA / SLIDER / LAGERKEIL +15°	1*CHOOSE
003	8116.0047.0005.00.001	CUNEO / WEDGE / DRUCKSTÜCK 0°	1*CHOOSE
003	8116.0047.0005.05.001	CUNEO / WEDGE / DRUCKSTÜCK -5°	1*CHOOSE
003	8116.0047.0005.10.001	CUNEO / WEDGE / DRUCKSTÜCK -10°	1*CHOOSE
003	8116.0047.0005.15.001	CUNEO / WEDGE / DRUCKSTÜCK -15°	1*CHOOSE
004	8115.0047.0005.00.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 0°	1*CHOOSE
004	8115.0047.0005.05.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -5°	1*CHOOSE
004	8115.0047.0005.10.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -10°	1*CHOOSE
004	8115.0047.0005.15.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -15	1*CHOOSE
005	8115.0047.0005.00.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 0°	1*CHOOSE
005	8115.0047.0005.05.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -5°	1*CHOOSE
005	8115.0047.0005.10.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -10°	1*CHOOSE
005	8115.0047.0005.15.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -15°	1*CHOOSE
006	8010.0047.0505	COPERCHIO / COVER / KOPFPLATTE	1
007	8011.0047.0505	PIASTRA / PLATE / PLATTE	1
008	8006.0130.0218.065.001	RONDELLA / WASHER / UNTERLEGSCHEIBE	1
009	9004.2220.001	SEEGER / SEEGER / SEEGERRING	1
010	9030.010.001	CILINDRO SPECIALE / SPECIAL CYLINDER / SPEZIALZYLINDER	1
011	9090.3JBM2.100.090	PUNZONE SBOZZATO TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 90	1*OPTION
011	9090.3JBM2.100.100	PUNZONE SBOZZATO TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 100	1*OPTION
011	093J_M2.100.090	PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 90	1*OPTION
011	093J_M2.100.100	PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 100	1*OPTION
012	9000.0025.0019.004	CILINDRO DI RITORNO / RETURN CYLINDER / RÜCK ZYLINDER	1
013	9016.090.010.001	PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM	1*CHOOSE
013	9016.090.010.002	PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM	1*CHOOSE
013	9016.100.010.001	PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM	1*CHOOSE
013	9016.100.010.002	PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM	1*CHOOSE
013	8016.090.010.001	PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM	1*OPTION
013	8016.090.010.002	PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM	1*OPTION
013	8016.100.010.001	PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM	1*OPTION
013	8016.100.010.002	PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM	1*OPTION
015	9003.0001	SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT	1*OPTION
016	9008.0608.055	VITE A COLLETTO / SHOULDER SCREW / ANSATZSCHRAUBE	2
017	8012.0700.0280.050.001	PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE	2
018	9006.002	INGRASSATORE / NIPPLES / SCHMIERUNG	1
019	9007.06.010.088.1.9327	VITE / SCREW / SCHRAUBE M6X10	2
020	9007.08.010.129.1.5933	VITE / SCREW / SCHRAUBE M8X10	4
021	9007.04.020.129.1.4762	VITE / SCREW / SCHRAUBE M4X20	4
022	9028.04.010.8735	SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D4X10	2
023	9007.06.012.129.1.4762	VITE / SCREW / SCHRAUBE M6X12	4
024	9007.03.005.048.1.7687	VITE / SCREW / SCHRAUBE M3X5	4
025	9007.06.014.129.1.5933	VITE / SCREW / SCHRAUBE M6X14	1
026	9004.2290.001	SEEGER / SEEGER / SEEGERRING	1
027	8012.0810.0550.100.001	PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE	1
028	8012.0650.0600.100.001	PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE	1
029	9007.08.016.109.1.9327	VITE / SCREW / SCHRAUBE M8X16	4

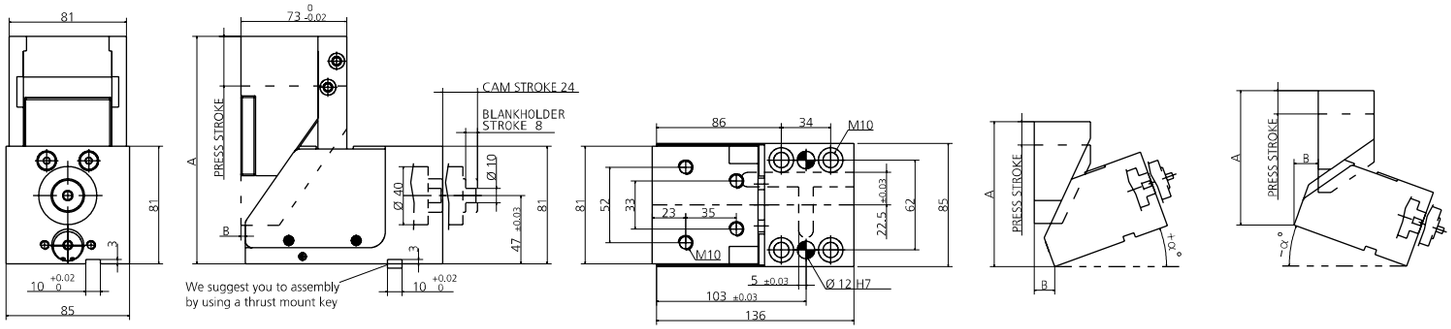
0147.5050 - **CAM MASE505-10**

PATENT PENDING

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **505 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **1110 daN**

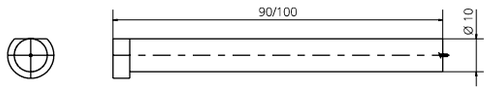
SFORZO MAX TRANCIO — **4500 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



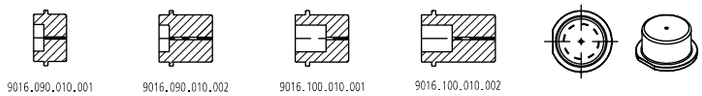
α°	PRESS STROKE	A	B
0°	34.1	156.67	2.99
+5°	32.05	162.19	8.51
+10°	29.6	163.55	16.62
+15°	26.9	166	23.69
-5	30.6	153.75	0.99
-10°	27.8	144.67	8.01
-15°	25.65	136.67	14.01

*** 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

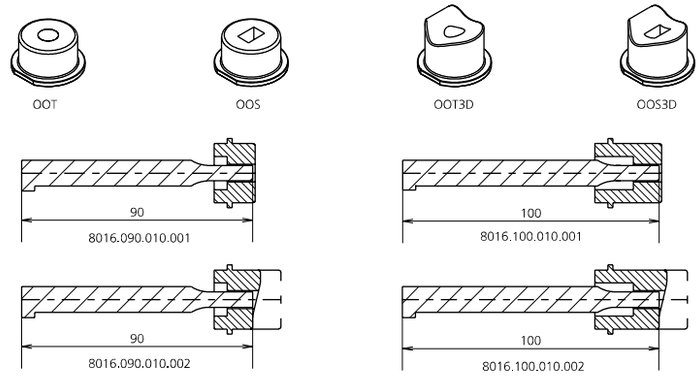


013 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



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

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

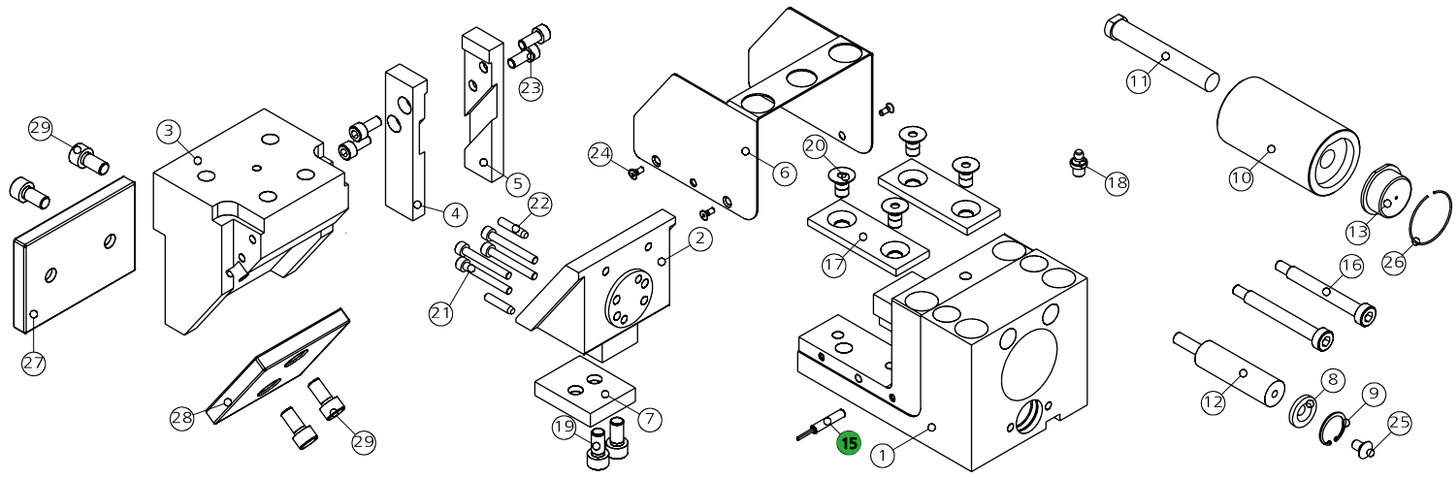
MODEL **0147.5050** INCLINATION **+10°** BLANKHOLDER **9016/8016.____** OPTION CODE **9003.0001**

0147.6953 - **CAM MASE695-13**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **695 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **1530 daN**

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



POS.	CODE	DESCRIPTION	Q.TY
001	8000.0047.0695	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8111.0047.0006.00.001	SLITTA / SLIDER / LAGERKEIL 0°	1*CHOOSE
002	8111.0047.0006.05.001	SLITTA / SLIDER / LAGERKEIL +5°	1*CHOOSE
002	8111.0047.0006.10.001	SLITTA / SLIDER / LAGERKEIL +10°	1*CHOOSE
002	8111.0047.0006.15.001	SLITTA / SLIDER / LAGERKEIL +15°	1*CHOOSE
003	8116.0047.0006.00.001	CUNEO / WEDGE / DRUCKSTÜCK 0°	1*CHOOSE
003	8116.0047.0006.05.001	CUNEO / WEDGE / DRUCKSTÜCK -5°	1*CHOOSE
003	8116.0047.0006.10.001	CUNEO / WEDGE / DRUCKSTÜCK -10°	1*CHOOSE
003	8116.0047.0006.15.001	CUNEO / WEDGE / DRUCKSTÜCK -15°	1*CHOOSE
004	8115.0047.0006.00.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 0°	1*CHOOSE
004	8115.0047.0006.05.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -5°	1*CHOOSE
004	8115.0047.0006.10.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -10°	1*CHOOSE
004	8115.0047.0006.15.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -15	1*CHOOSE
005	8115.0047.0006.00.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 0°	1*CHOOSE
005	8115.0047.0006.05.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -5°	1*CHOOSE
005	8115.0047.0006.10.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -10°	1*CHOOSE
005	8115.0047.0006.15.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -15°	1*CHOOSE
006	8010.0047.0695	COPERCHIO / COVER / KOPFPLATTE	1
007	8011.0047.0695	PIASTRA / PLATE / PLATTE	1
008	8006.0130.0218.065.001	RONDELLA / WASHER / UNTERLEGSCHEIBE	1
009	9004.2220.001	SEEGER / SEEGER / SEEGERRING	1
010	9030.013.001	CILINDRO SPECIALE / SPECIAL CYLINDER / SPEZIALZYLINDER	1
011	9090.3JBM2.130.090	PUNZONE SBOZZATO TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 90	1*OPTION
011	9090.3JBM2.130.100	PUNZONE SBOZZATO TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 100	1*OPTION
011	093J_M2.130.090	PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 90	1*OPTION
011	093J_M2.130.100	PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 100	1*OPTION
012	9000.0025.0019.004	CILINDRO DI RITORNO / RETURN CYLINDER / RÜCK ZYLINDER	1
013	9016.090.136.001	PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM	1*CHOOSE
013	9016.090.136.002	PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM	1*CHOOSE
013	9016.100.136.001	PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM	1*CHOOSE
013	9016.100.136.002	PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM	1*CHOOSE
013	8016.090.136.001	PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM	1*OPTION
013	8016.090.136.002	PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM	1*OPTION
013	8016.100.136.001	PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM	1*OPTION
013	8016.100.136.002	PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM	1*OPTION
015	9003.0001	SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT	1*OPTION
016	9008.0608.060	VITE A COLLETTO / SHOULDER SCREW / ANSATZSCHRAUBE	2
017	9012.0750.0280.050.001	PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE	2
018	9006.002	INGRASSATORE / NIPPLES / SCHMIERUNG	1
019	9007.08.012.088.1.9327	VITE / SCREW / SCHRAUBE M8X12	2
020	9007.08.010.129.1.5933	VITE / SCREW / SCHRAUBE M8X10	4
021	9007.05.025.129.1.4762	VITE / SCREW / SCHRAUBE M5X25	4
022	9028.05.012.8735	SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D5X12	2
023	9007.06.012.129.1.4762	VITE / SCREW / SCHRAUBE M6X12	4
024	9007.03.005.048.1.7687	VITE / SCREW / SCHRAUBE M3X5	4
025	9007.06.014.129.1.5933	VITE / SCREW / SCHRAUBE M6X14	1
026	9004.2350.001	SEEGER / SEEGER / SEEGERRING	1
027	8012.0940.0650.100.001	PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE	1
028	8012.0750.0730.100.001	PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE	1
029	9007.08.016.109.1.9327	VITE / SCREW / SCHRAUBE M8X16	4

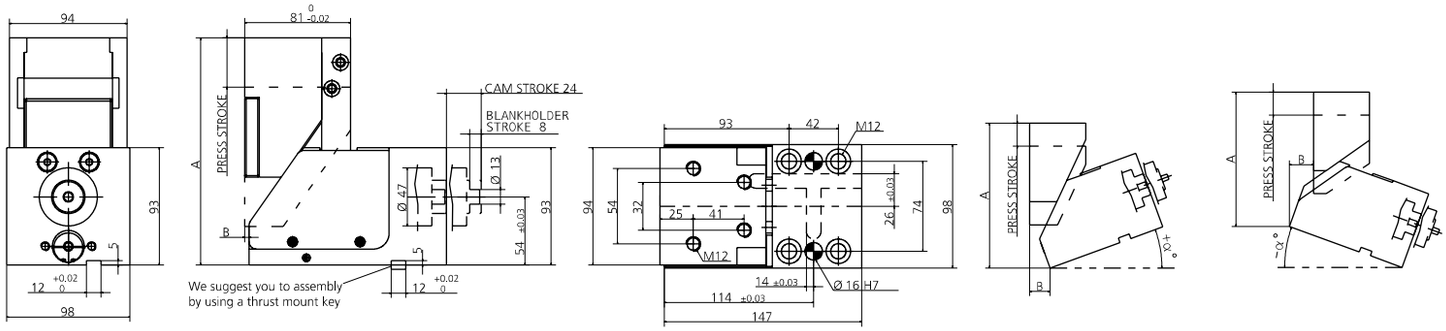
0147.6953 - **CAM MASE695-13**

PATENT PENDING

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **695 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **1530 daN**

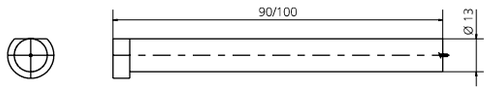
SFORZO MAX TRANCIO — **6000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



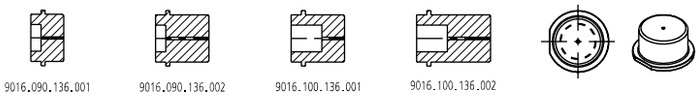
α°	PRESS STROKE	A	B
0°	34.1	172.17	3.82
+5°	32.05	174.98	12.37
+10°	29.6	173.74	20.09
+15°	26.9	171.99	31.29
-5	30.6	170.17	1.82
-10°	27.8	158.17	14.68
-15°	25.65	151.75	16.68

* **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

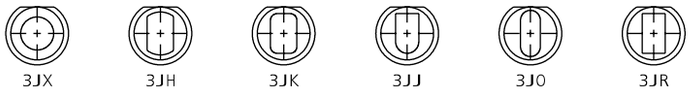
0011 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



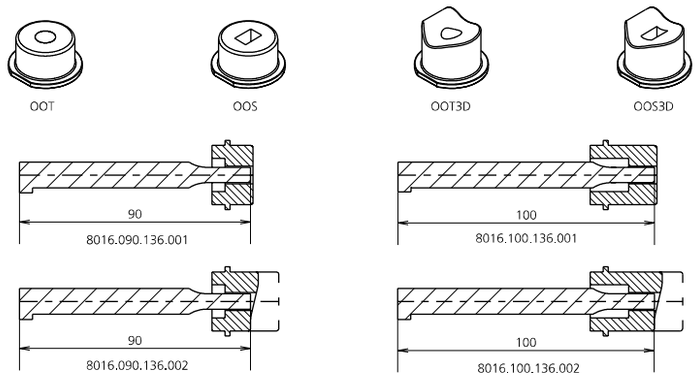
013 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



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



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



015 (9003) SENSORE / SENSOR / SENSOR

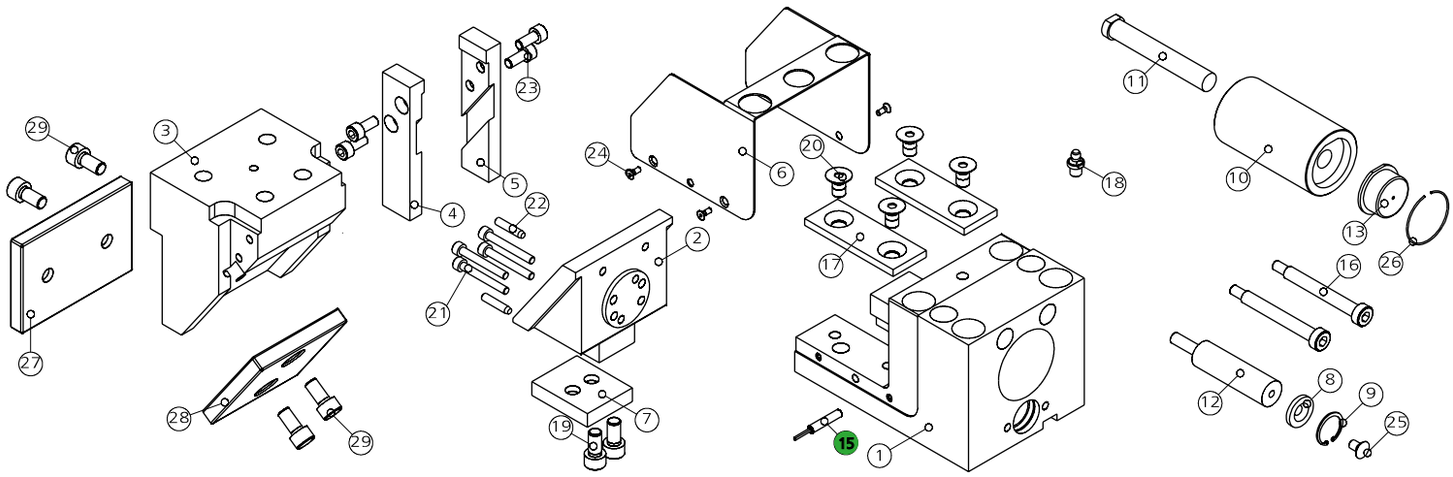
15 PATENT PENDING

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

MODEL **0147.6953** INCLINATION **+10°** BLANKHOLDER **9016/8016.____** OPTION CODE **9003.0001**

0147.6956 - **CAM MASE695-16**

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



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

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

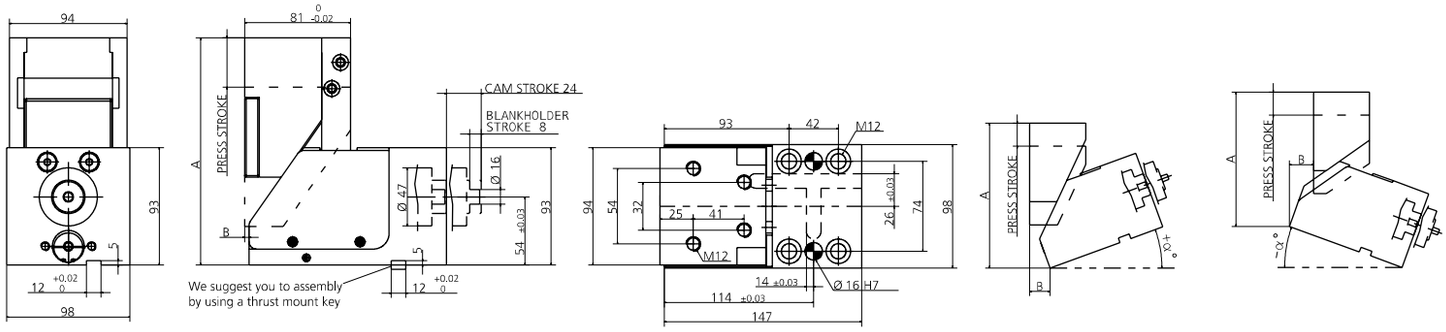
0147.6956 - **CAM MASE695-16**

PATENT PENDING

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **695 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **1530 daN**

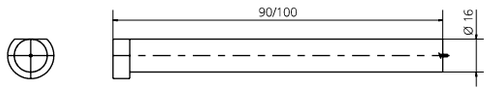
SFORZO MAX TRANCIO — **6000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



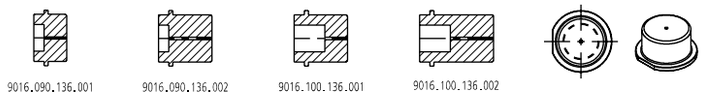
α°	PRESS STROKE	A	B
0°	34.1	172.17	3.82
+5°	32.05	174.98	12.37
+10°	29.6	173.74	20.09
+15°	26.9	171.99	31.29
-5	30.6	170.17	1.82
-10°	27.8	158.17	14.68
-15°	25.65	151.75	16.68

*** 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

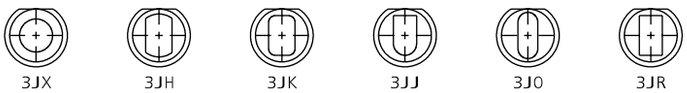
0011 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



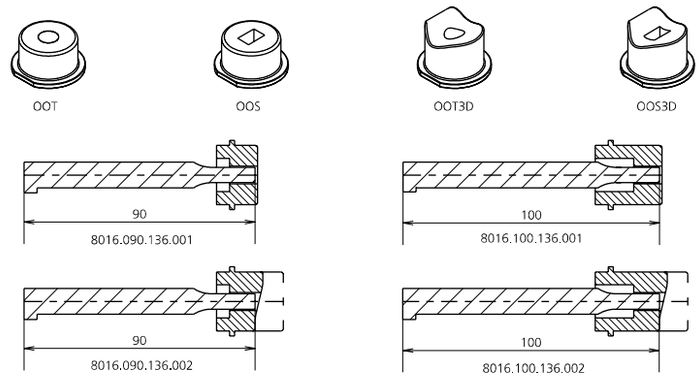
013 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



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

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

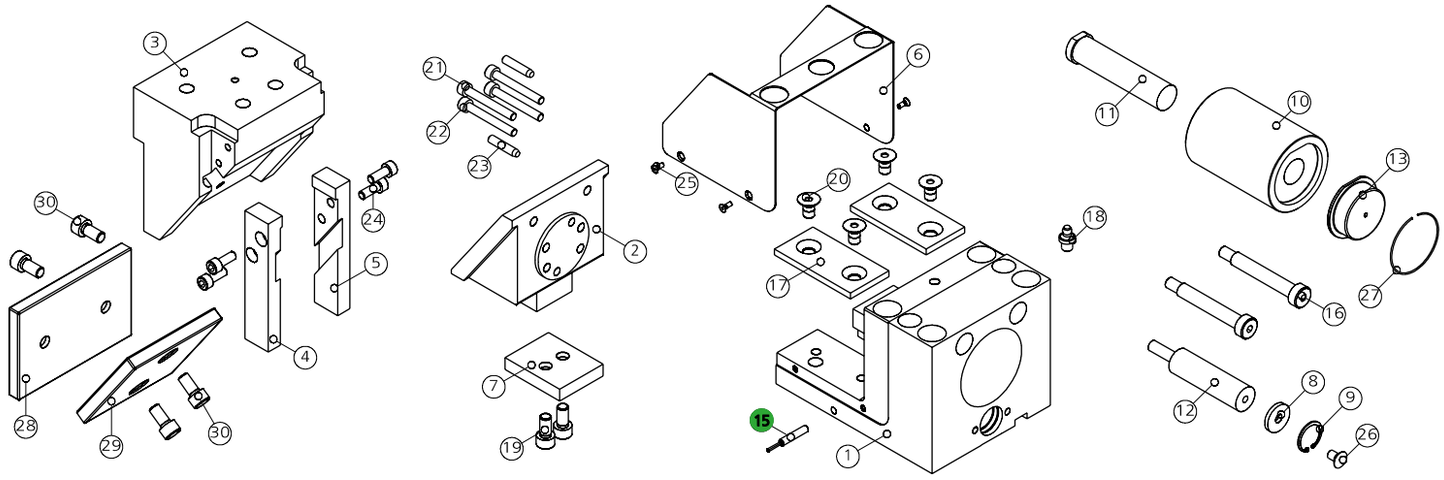
MODEL **0147.6956** INCLINATION **+10°** BLANKHOLDER **9016/8016.____** OPTION CODE **9003.0001**

0147.1160 - **CAM MASE1160-20**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **1160 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **2550 daN**

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



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

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

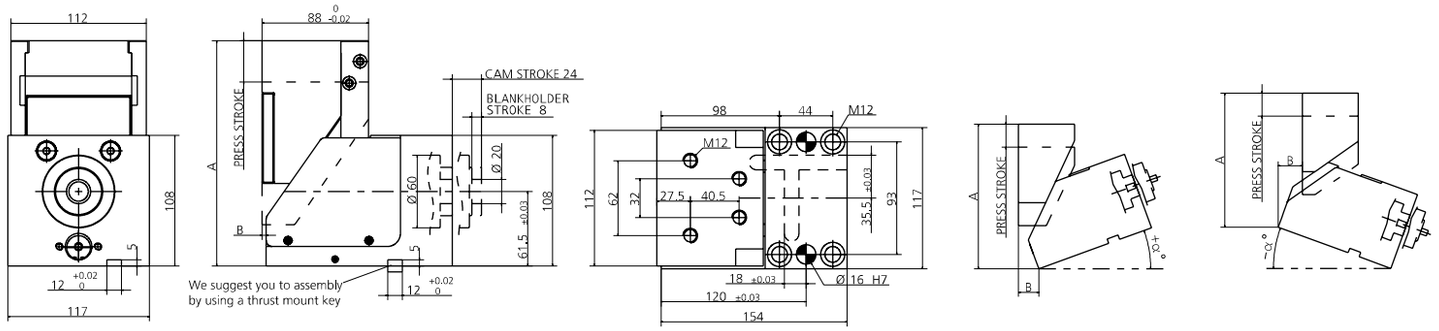
0147.1160 - **CAM MASE1160-20**

PATENT PENDING

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **1160 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **2550 daN**

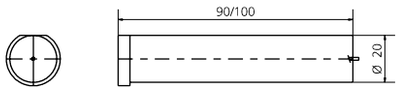
SFORZO MAX TRANCIO — **9000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



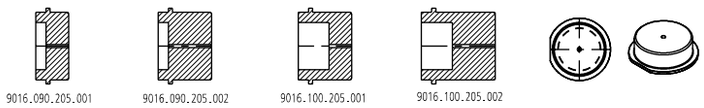
α°	PRESS STROKE	A	B
0°	34.1	186.18	3.38
+5°	32.05	189.33	13.46
+10°	29.6	186.77	23.52
+15°	26.9	186.43	34.43
-5	30.6	183.18	6.62
-10°	27.8	182.18	13.12
-15°	25.65	175.18	21.12

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

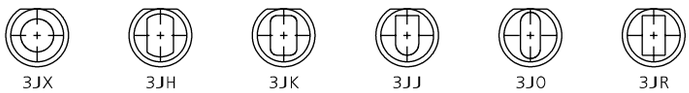
0011 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



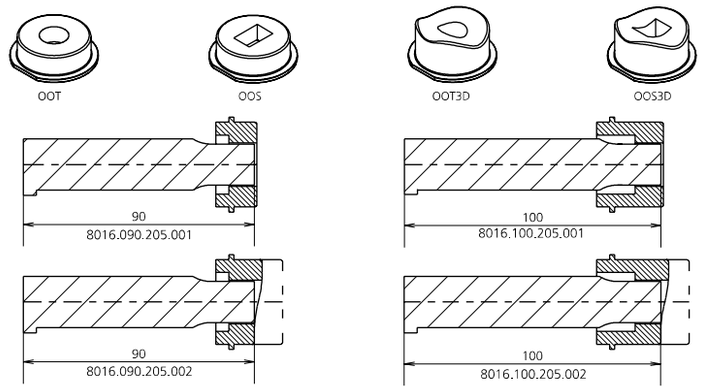
013 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



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

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

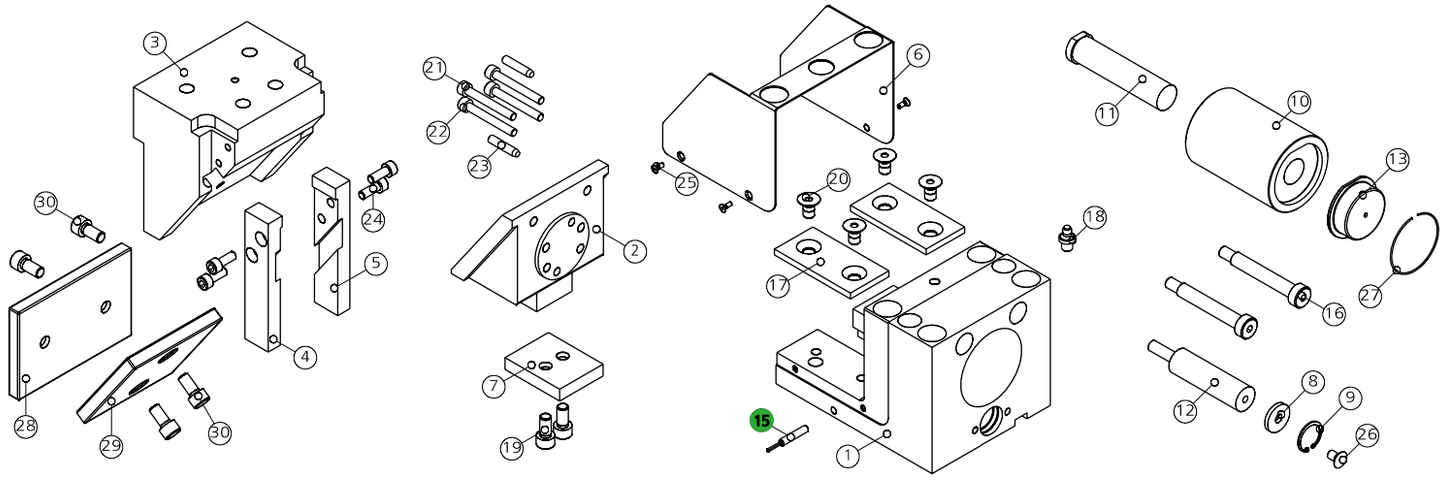
MODEL **0147.1160** INCLINATION **+10°** BLANKHOLDER **9016/8016.____** OPTION CODE **9003.0001**

0147.1165 - **CAM MASE1160-25**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **1160 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **2550 daN**

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



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

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

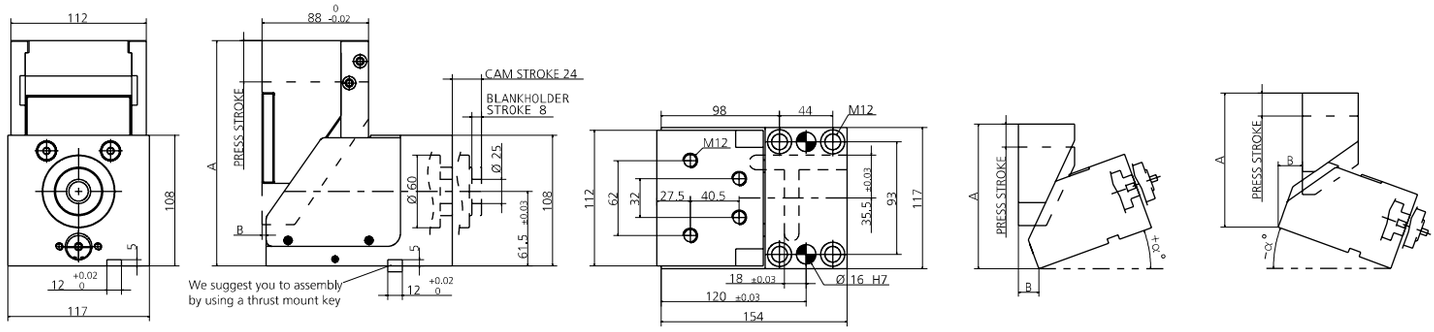
0147.1165 - **CAM MASE1160-25**

PATENT PENDING

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **1160 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **2550 daN**

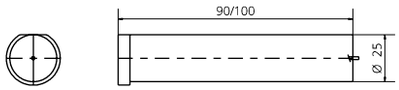
SFORZO MAX TRANCIO — **9000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



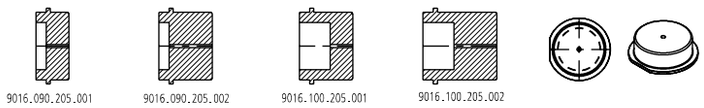
α°	PRESS STROKE	A	B
0°	34.1	186.18	3.38
+5°	32.05	189.33	13.46
+10°	29.6	186.77	23.52
+15°	26.9	186.43	34.43
-5	30.6	183.18	6.62
-10°	27.8	182.18	13.12
-15°	25.65	175.18	21.12

* PER INCLINAZIONI FUORI STANDARD RIVOLGERSI ALL'UFFICIO 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

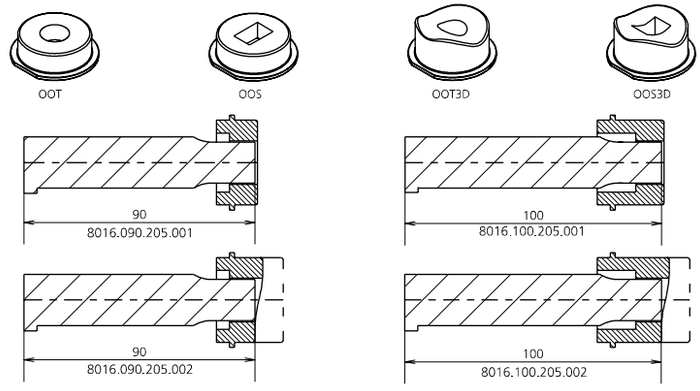


013 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



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

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

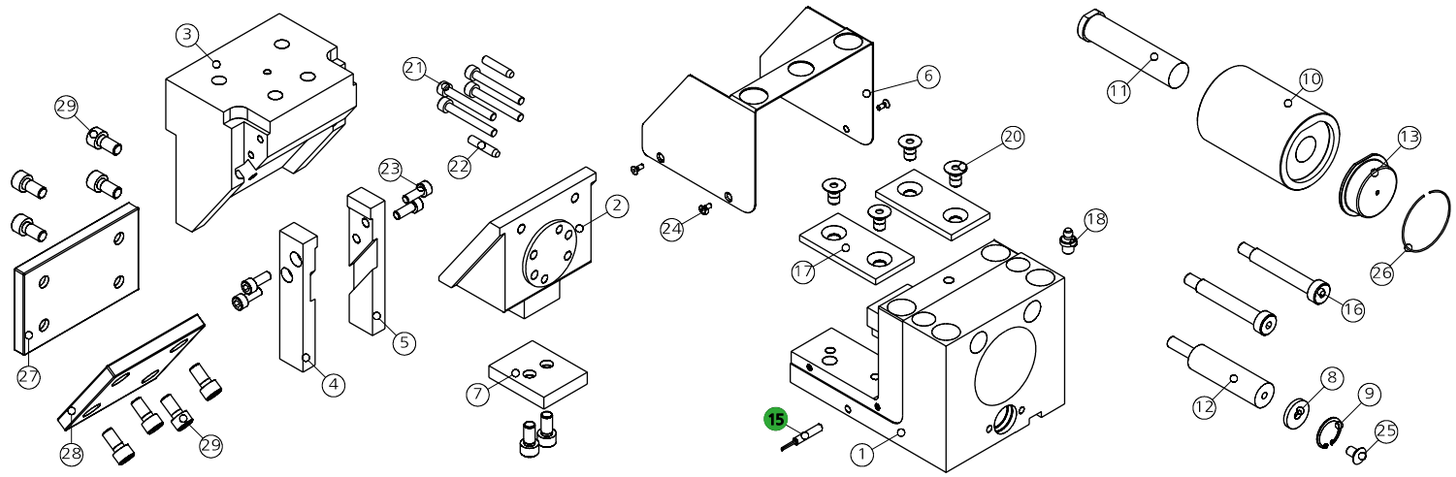
MODEL **0147.1165** INCLINATION **+10°** BLANKHOLDER **9016/8016.____** OPTION CODE **9003.0001**

0147.1392 - **CAM MASE1390-32**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **1390 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **3050 daN**

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



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

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

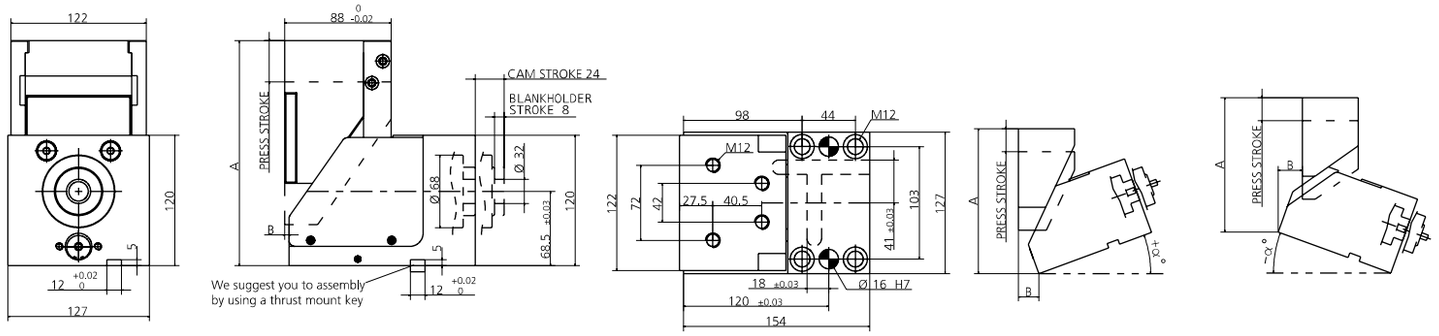
0147.1392 - **CAM MASE1390-32**

PATENT PENDING

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION **1390 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION **3050 daN**

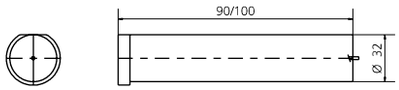
SFORZO MAX TRANCIO **12000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



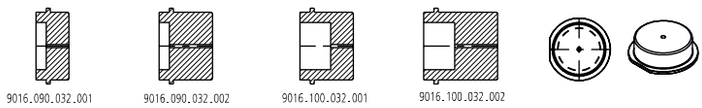
α°	PRESS STROKE	A	B
0°	34.1	190.78	3
+5°	32.05	188.73	14.59
+10°	29.6	190.4	25.84
+15°	26.9	187.11	37.75
-5	30.6	186.78	7
-10°	27.8	183.28	14
-15°	25.65	177.28	12.5

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

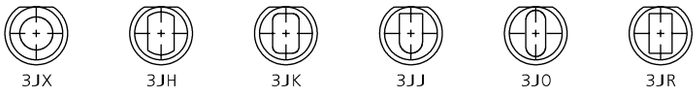
0011 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



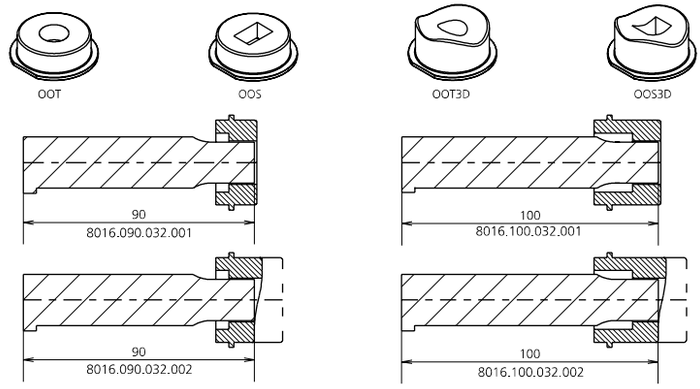
013 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



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

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

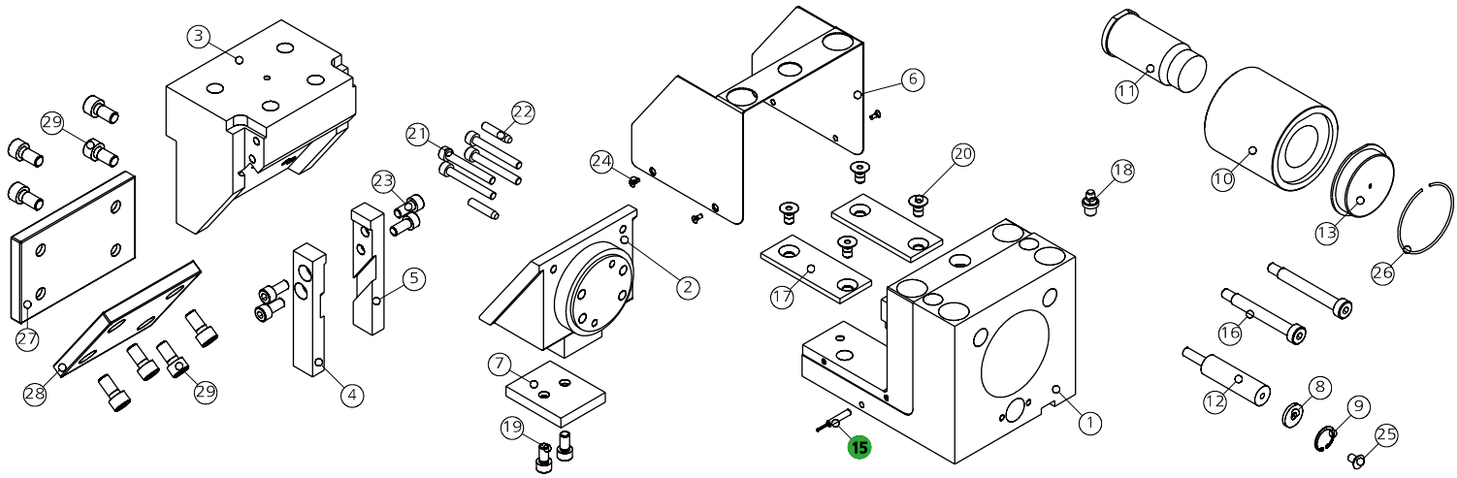
MODEL **0147.1392** INCLINATION **+10°** BLANKHOLDER **9016/8016.____** OPTION CODE **9003.0001**

0147.1880 - **CAM MASE1880-40**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **1880 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **4100 daN**

SFORZO MAX TRANCIO — **17000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



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

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

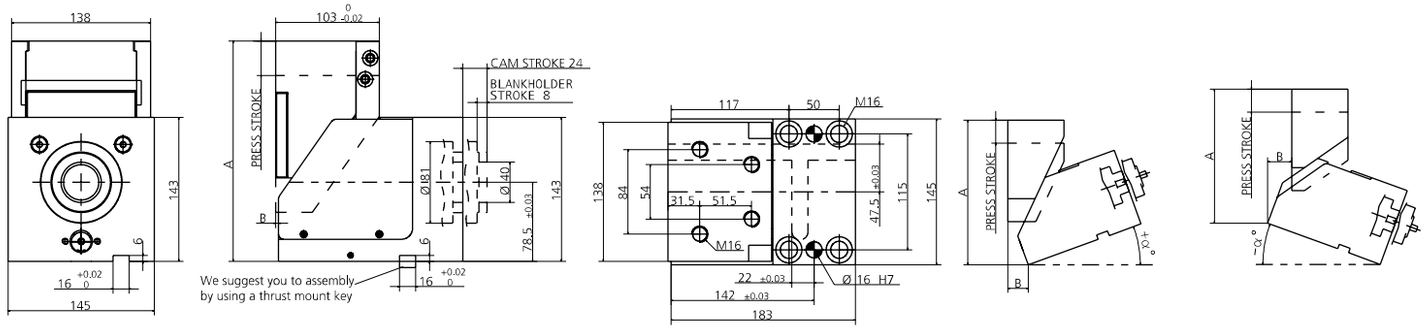
0147.1880 - **CAM MASE1880-40**

PATENT PENDING

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION **1880 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION **4100 daN**

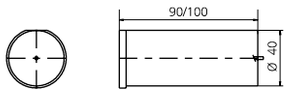
SFORZO MAX TRANCIO **17000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



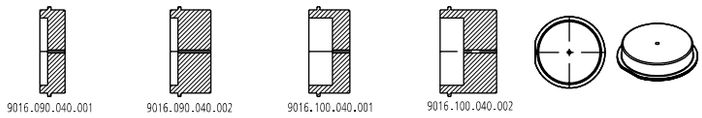
α°	PRESS STROKE	A	B
0°	34.1	218.78	3
+5°	32.05	219.02	16.7
+10°	29.6	220.79	30.28
+15°	26.9	218.59	44.24
-5	30.6	212.78	6.5
-10°	27.8	206.78	15.5
-15°	25.65	199.78	17.5

*** 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

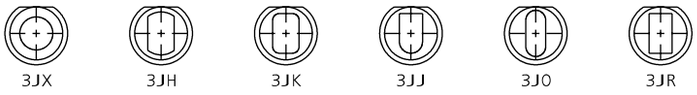
0011 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



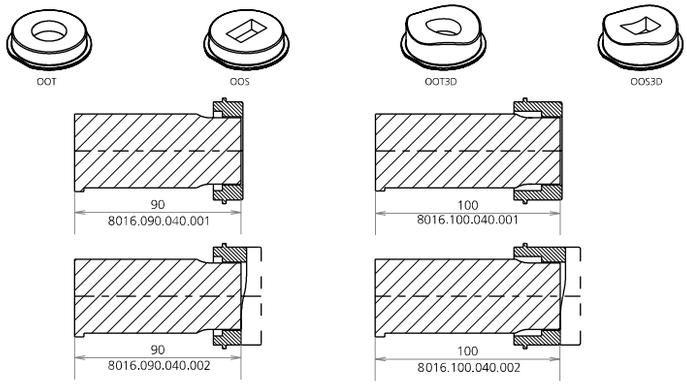
013 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



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

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

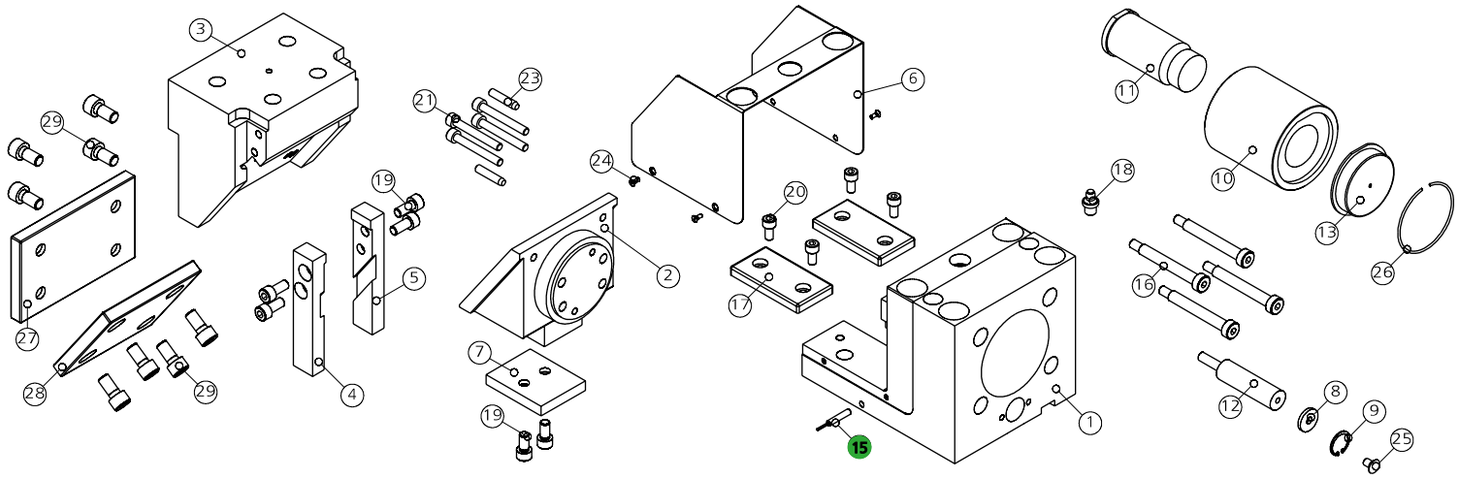
MODEL **0147.1880** INCLINATION **+10°** BLANKHOLDER **9016/8016.____** OPTION CODE **9003.0001**

0147.3303 - **CAM MASE3300-63**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **3300 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **7250 daN**

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



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

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

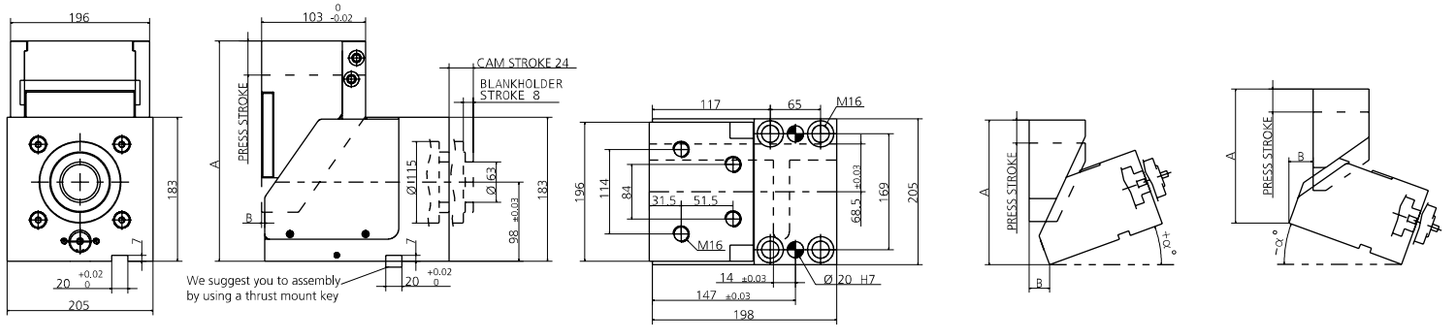
0147.3303 - **CAM MASE3300-63**

PATENT PENDING

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION **3300 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION **7250 daN**

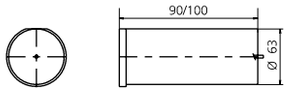
SFORZO MAX TRANCIO **30000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



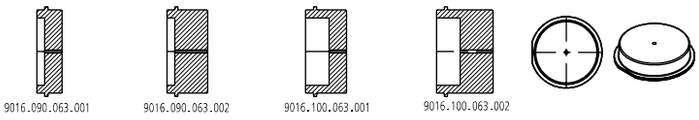
α°	PRESS STROKE	A	B
0°	34.1	248.78	3
+5°	32.05	247.2	20.75
+10°	29.6	257.18	37.51
+15°	26.9	257.46	54.25
-5	30.6	242.78	8
-10°	27.8	236.78	9
-15°	25.65	229.78	22

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

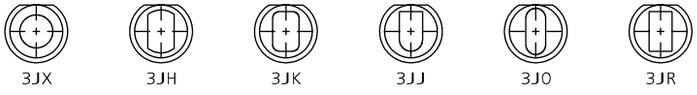
0011 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



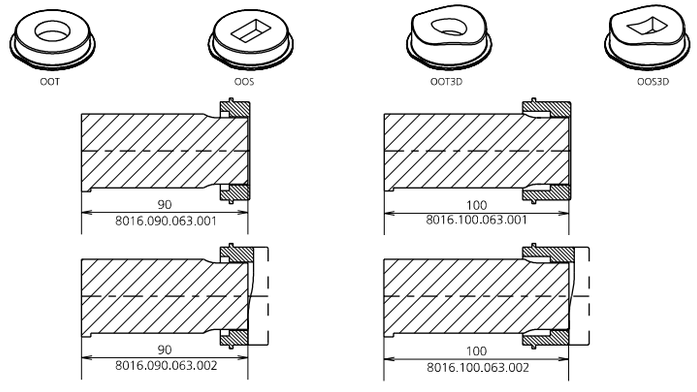
013 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



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

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

MODEL **0147.3303** INCLINATION **+10°** BLANKHOLDER **9016/8016.____** OPTION CODE **9003.0001**

100% CUSTOMISABLE PRODUCT

info@newstark.it

DOWNLOAD 3D FILES

newstark.it

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.

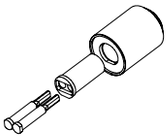
- APPROVED -

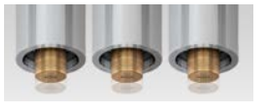
FORD OTOSAN

PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE

CAM **SMEG**

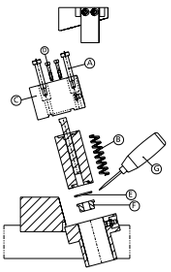
ESEMPI DI APPLICAZIONI SPECIALI / EXAMPLES OF SPECIAL APPLICATIONS / BEISPIELE FÜR SPEZIELLE ANWENDUNGEN
EXEMPLE D'APPLICATIONS SPÉCIALES





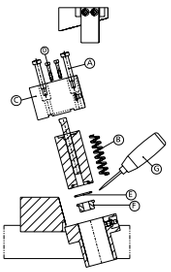
È possibile inserire più punzoni nella stessa unità!
It is possible put more punches in the same unit!
Es ist möglich, setzen mehr Lochstempel in der gleichen Einheit!
Il est possible d'insérer plusieurs poinçons dans la même unité!

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



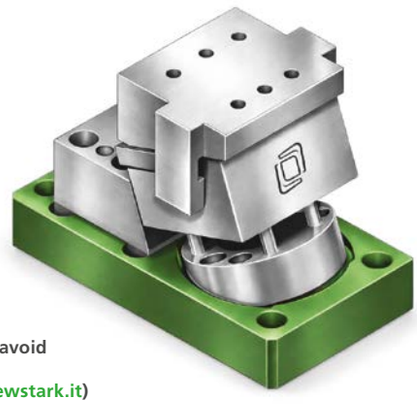
ATTENZIONE:
per eseguire la prova manualmente togliere il cilindro come indicato.
ATTENTION:
in order to manually perform the test, extract the cylinder as indicated.
ACHTUNG:
Stickstoffzylinder verbaut, Schieber nur in Grundstellung öffnen.
ATTENTION:
pour effectuer le test, retirer manuellement le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

PIASTRA ADATTATORE PERSONALIZZABILE: info@newstark.it
CUSTOM ADAPTOR PLATE: info@newstark.it



Adaptor plate to avoid
5 axix machining
(contact sales@newstark.it)

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 (MoS2). 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 (MoS2).

DE Achtung: Wartungs-und Demontagearbeiten 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 (MoS2). Die Verwendung dieses Fett wird durch Newstark empfohlen.
6. Auf richtigen Sitz der einzelnen Komponenten achten.

Während des Gebrauches, mit Molybdändisulfidfett (MoS2) nachschmieren.

EN Attention: Undertake reassemly 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 (MoS2). 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 (MoS2).

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 collerette "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 (MoS2). Newstark recommande l'utilisation de cette graisse.
6. S'assurer que les différents éléments sont correctement repositionnés.

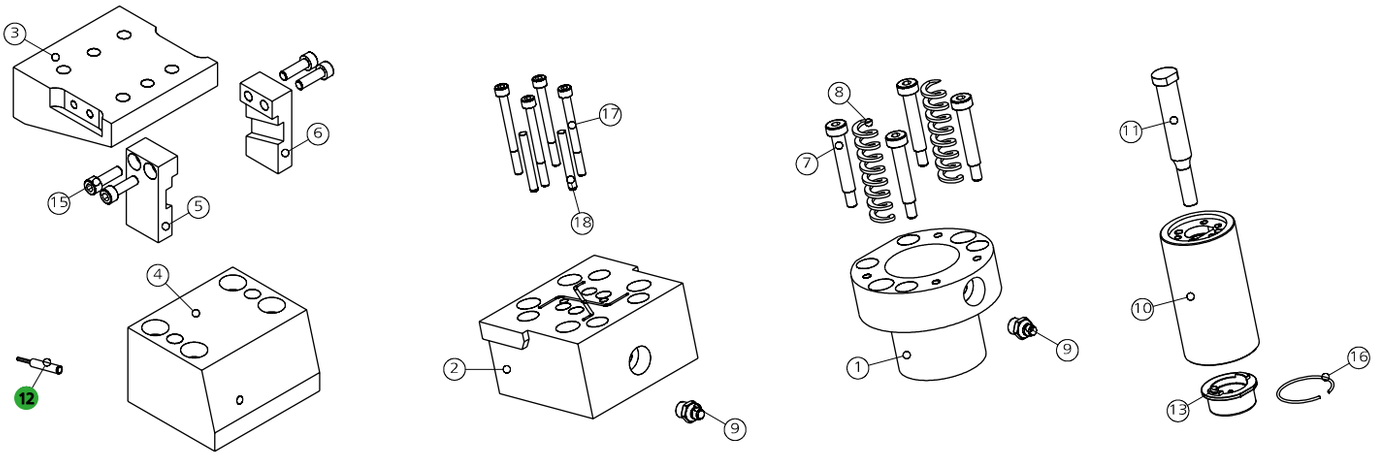
Lubrifier avec de la graisse au bisulfure de molybdène (MoS2).

0148.5050 - **CAM SMEG505-10**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION **505 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION **1100 daN**

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



POS.	CODE	DESCRIPTION	Q.TY
001	8013.0690.0830.400.001	BOCCOLA DI GUIDA / GUIDEBUSHINGS / FÜHRUNGSBÜCHSE	1
002	8014.0048.0505	PORTA PUNZONE / PUNCHS HOLDER / TRÄGERPLATTE	1
003	8116.4851.0504.05.001	INCUDINE / ANVIL / TREIBER 5°	1*CHOOSE
003	8116.4851.0504.10.001	INCUDINE / ANVIL / TREIBER 10°	1*CHOOSE
003	8116.4851.0504.15.001	INCUDINE / ANVIL / TREIBER 15°	1*CHOOSE
003	8116.4851.0504.20.001	INCUDINE / ANVIL / TREIBER 20°	1*CHOOSE
003	8116.4851.0504.25.001	INCUDINE / ANVIL / TREIBER 25°	1*CHOOSE
003	8116.4851.0504.30.001	INCUDINE / ANVIL / TREIBER 30°	1*CHOOSE
003	8116.4851.0504.35.001	INCUDINE / ANVIL / TREIBER 35°	1*CHOOSE
003	8116.4851.0504.40.001	INCUDINE / ANVIL / TREIBER 40°	1*CHOOSE
003	8116.4851.0504.45.001	INCUDINE / ANVIL / TREIBER 45°	1*CHOOSE
003	8116.4851.0504.50.001	INCUDINE / ANVIL / TREIBER 50°	1*CHOOSE
004	8117.4851.0504.05.001	GUIDA / GUIDE / FÜHRUNG 5°	1*CHOOSE
004	8117.4851.0504.10.001	GUIDA / GUIDE / FÜHRUNG 10°	1*CHOOSE
004	8117.4851.0504.15.001	GUIDA / GUIDE / FÜHRUNG 15°	1*CHOOSE
004	8117.4851.0504.20.001	GUIDA / GUIDE / FÜHRUNG 20°	1*CHOOSE
004	8117.4851.0504.25.001	GUIDA / GUIDE / FÜHRUNG 25°	1*CHOOSE
004	8117.4851.0504.30.001	GUIDA / GUIDE / FÜHRUNG 30°	1*CHOOSE
004	8117.4851.0504.35.001	GUIDA / GUIDE / FÜHRUNG 35°	1*CHOOSE
004	8117.4851.0504.40.001	GUIDA / GUIDE / FÜHRUNG 40°	1*CHOOSE
004	8117.4851.0504.45.001	GUIDA / GUIDE / FÜHRUNG 45°	1*CHOOSE
004	8117.4851.0504.50.001	GUIDA / GUIDE / FÜHRUNG 50°	1*CHOOSE
005	8115.4851.0504.05.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°	1*CHOOSE
005	8115.4851.0504.10.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10°	1*CHOOSE
005	8115.4851.0504.15.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15°	1*CHOOSE
005	8115.4851.0504.20.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20°	1*CHOOSE
005	8115.4851.0504.25.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25°	1*CHOOSE
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005	8115.4851.0504.40.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40°	1*CHOOSE
005	8115.4851.0504.45.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°	1*CHOOSE
005	8115.4851.0504.50.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50°	1*CHOOSE
006	8115.4851.0504.05.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°	1*CHOOSE
006	8115.4851.0504.10.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10°	1*CHOOSE
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006	8115.4851.0504.40.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40°	1*CHOOSE
006	8115.4851.0504.45.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°	1*CHOOSE
006	8115.4851.0504.50.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50°	1*CHOOSE
007	9008.0608.040	VITE A COLLETTO / SHOULDER SCREW / ANSATZSCHRAUBE	4
008	9009.3000.0890.160	MOLLA / SPRING / FEDER	2
009	9006.002	INGRASSATORE / NIPPLES / SCHMIERUNG	2
010	9030.010.001	CILINDRO SPECIALE / SPECIAL CYLINDER / SPEZIALZYLINDER	1
011	9090.3JBM2.100.090	PUNZONE SBOZZATO TC CON ESPULSORE / BLANK-HEADED PUNCH WITH EJECTOR / ROHLING SCHNEIDSTEMPEL MIT ABSTOSSER 10 90	1*OPTION
011	9090.3JBM2.100.100	PUNZONE SBOZZATO TC CON ESPULSORE / BLANK-HEADED PUNCH WITH EJECTOR / ROHLING SCHNEIDSTEMPEL MIT ABSTOSSER 10 100	1*OPTION
011	093J_M2.100.090	PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 90	1*OPTION
011	093J_M2.100.100	PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 100	1*OPTION
012	9003.0001	SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT	1*OPTION
013	9016.090.010.001	PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM	1*CHOOSE
013	9016.090.010.002	PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM	1*CHOOSE
013	9016.100.010.001	PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM	1*CHOOSE
013	9016.100.010.002	PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM	1*CHOOSE
013	8016.090.010.001	PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM	1*OPTION
013	8016.090.010.002	PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM	1*OPTION
013	8016.100.010.001	PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM	1*OPTION
013	8016.100.010.002	PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM	1*OPTION
015	9007.06.020.129.1.4762	VITE / SCREW / SCHRAUBE M6X20	4
016	9004.2290.001	SEEGER / SEEGER / SEEGERRING	1
017	9007.04.055.129.1.4762	VITE / SCREW / SCHRAUBE M4X55	4
018	9028.04.010.8735	SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D4X10	2

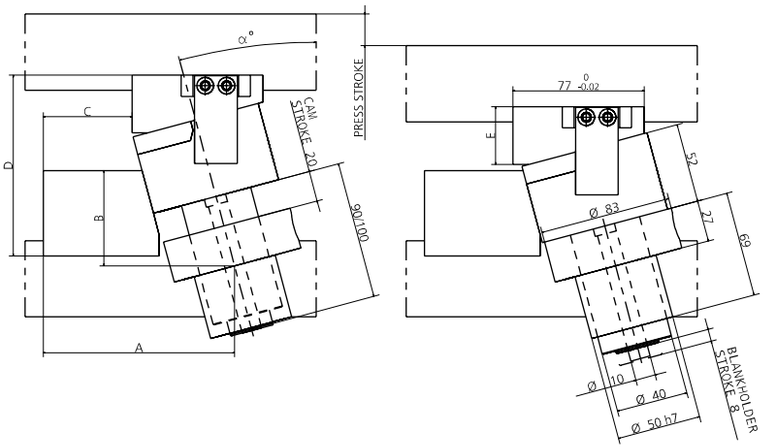
0148.5050 - **CAM SMEG505-10**

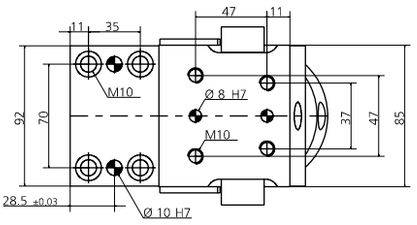
PATENT PENDING

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **505 daN**

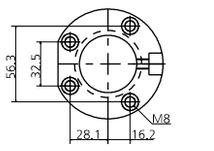
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **1100 daN**

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





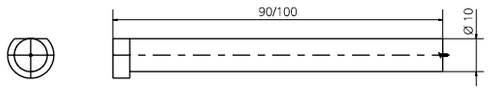
FISSAGGIO DELLE BOCCOLE DI GUIDA
DRILLING OF THE GUIDE BUSHINGS



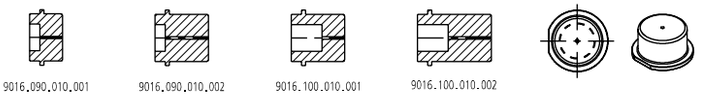
α°	PRESS STROKE	A	B	C	D	E
5°	20.1	118.15	70.5	73.8	109.5	27
10°	20.3	120.4	66.5	68.55	110.75	28
15°	20.7	122.3	62.5	62.5	117.85	36
20°	21.3	123.2	56.5	55.9	125.6	42
25°	22.05	123.85	51.5	49.05	132	49
30°	23.1	126.85	46.8	46	139.1	57
35°	24.4	124.2	37.8	36.9	149.65	66
40°	26.1	122.5	31.8	28.65	157.1	72
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 TECNICONEWSTARK / * FOR NON-STANDARD INCLINATIONS, PLEASECONTACT NEWSTARK TECHNICAL OFFICE.
/ * FÜR NICHT STANDARDMÄSSIGE NEIGUNGEN WENDEN SIE SICH BITTE AN DAS TECHNISCHE BÜRO VON NEWSTARK

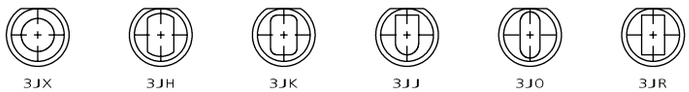
0011 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



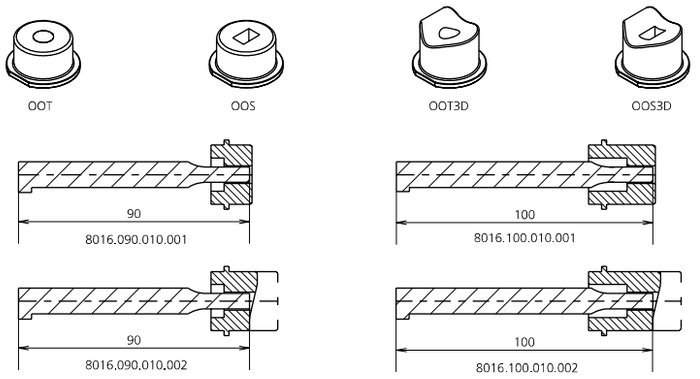
013 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



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



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



012 (9003) SENSORE / SENSOR / SENSOR

12 PATENT PENDING

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

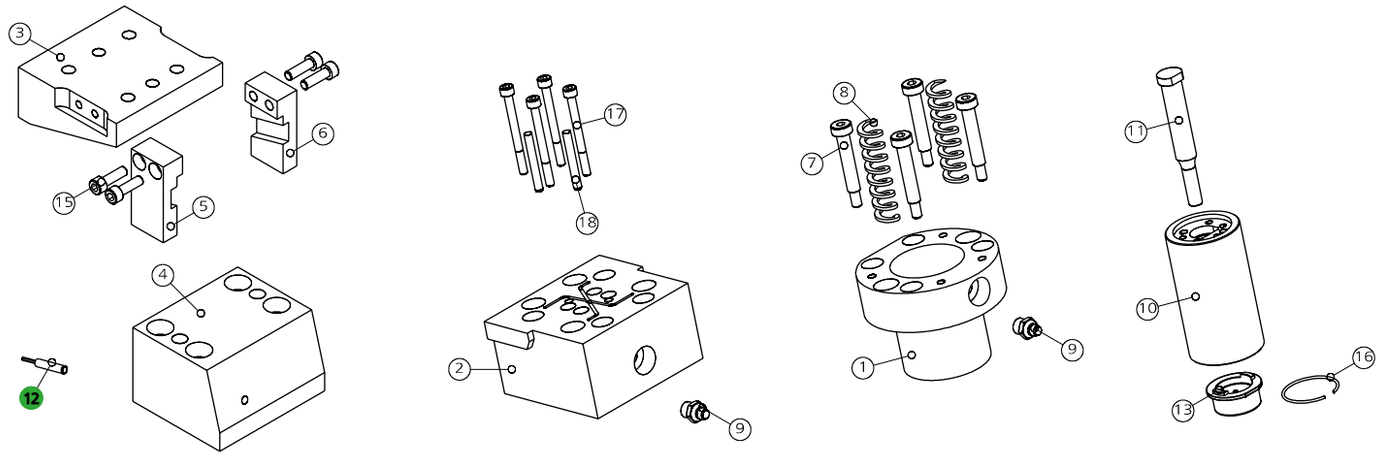
MODEL **0148.5050** INCLINATION **+10°** BLANKHOLDER **9016/8016.____** OPTION CODE **9003.0001**

0148.6953 - **CAM SMEG695-13**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION **695 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION **1530 daN**

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



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

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

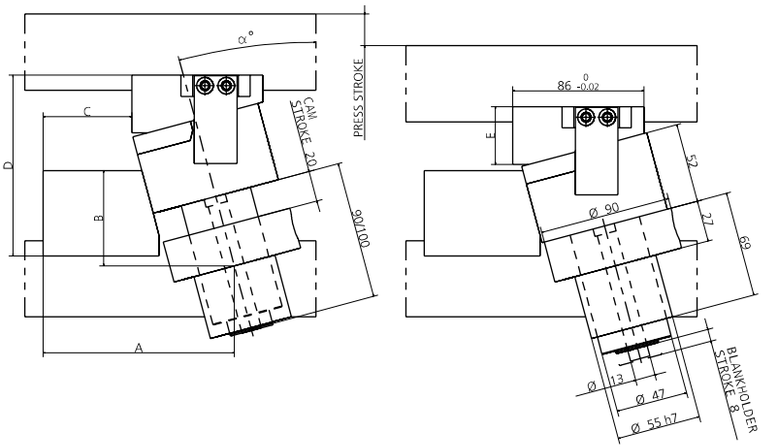
0148.6953 - **CAM SMEG695-13**

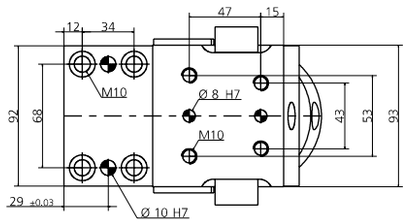
PATENT PENDING

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **695 daN**

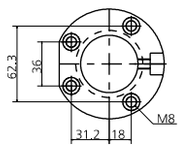
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **1530 daN**

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





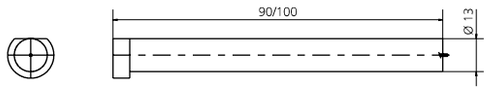
FISSAGGIO DELLE BOCCOLE DI GUIDA
DRILLING OF THE GUIDE BUSHINGS



α°	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

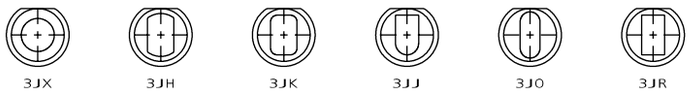
* PER INCLINAZIONI FUORI STANDARD RIVOLGERSI ALL'UFFICIO TECNICONEWSTARK / * FOR NON-STANDARD INCLINATIONS, PLEASECONTACT NEWSTARK TECHNICAL OFFICE.
/ * FÜR NICHT STANDARDMÄSSIGE NEIGUNGEN WENDEN SIE SICH BITTE AN DAS TECHNISCHE BÜRO VON NEWSTARK

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

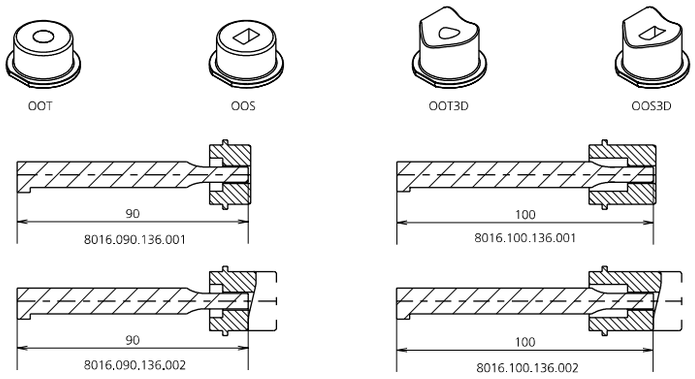


013 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER

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



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



012 (9003) SENSORE / SENSOR / SENSOR

12 PATENT PENDING

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

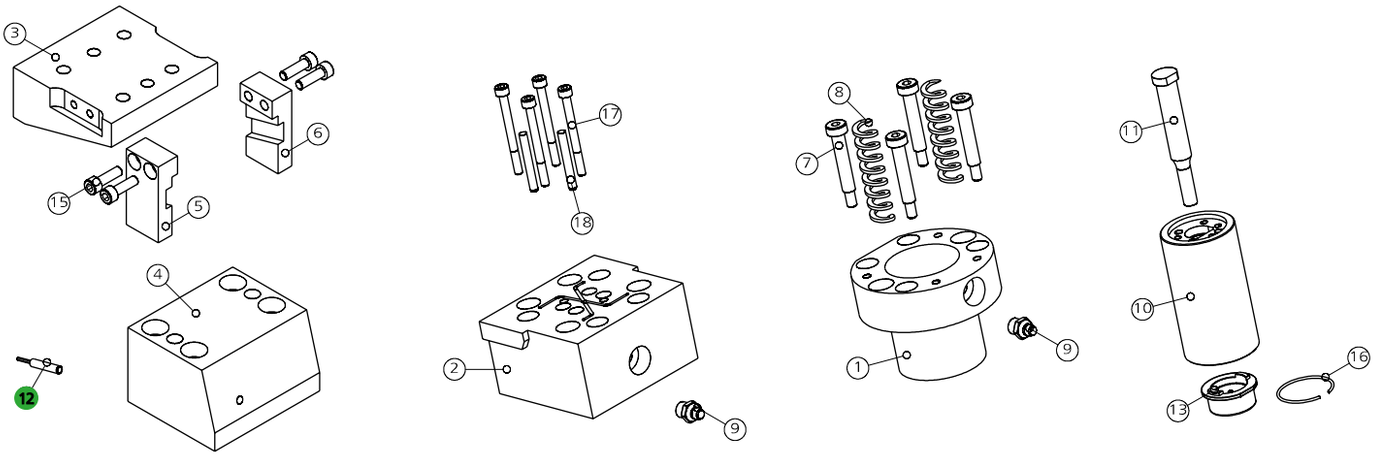
MODEL **0148.6953** INCLINATION **+10°** BLANKHOLDER **9016/8016.____** OPTION CODE **9003.0001**

0148.6956 - **CAM SMEG695-16**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **695 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **1530 daN**

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



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

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

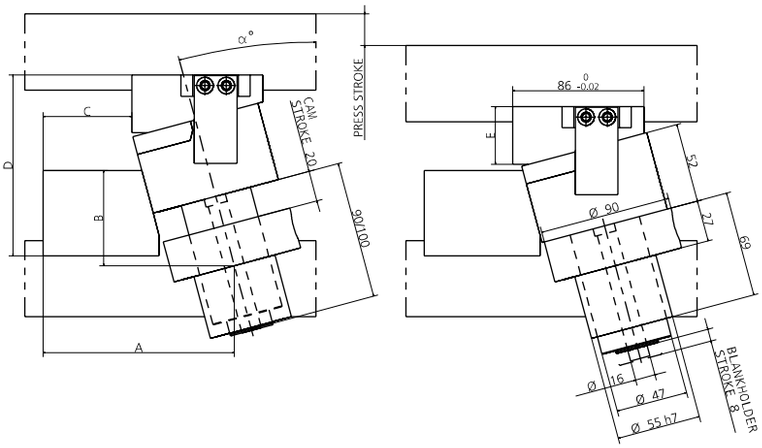
0148.6956 - **CAM SMEG695-16**

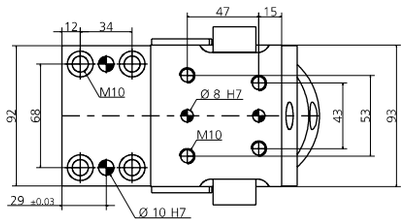
PATENT PENDING

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **695 daN**

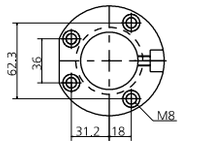
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **1530 daN**

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





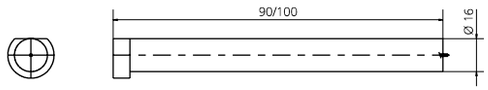
FISSAGGIO DELLE BOCCOLE DI GUIDA
DRILLING OF THE GUIDE BUSHINGS



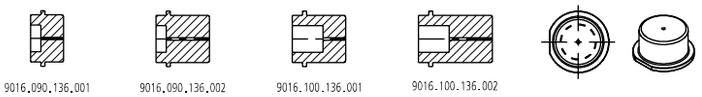
α°	PRESS STROKE	A	B	C	D	E
5°	20.1	121.3	72.5	70	107.15	28
10°	20.3	123.65	67.5	64.3	114.5	35
15°	20.7	125.45	62.5	58.15	118.7	38
20°	21.3	126.8	57.5	52.5	125.8	46
25°	22.05	127.25	51.5	45.45	133.4	53
30°	23.1	126	41.8	38.15	140.7	58
35°	24.4	126.2	37.8	31.35	146.2	63
40°	26.1	123.55	30.8	22.7	155.25	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 TECNICONEWSTARK / * FOR NON-STANDARD INCLINATIONS, PLEASECONTACT NEWSTARK TECHNICAL OFFICE.
/ * FÜR NICHT STANDARDMÄSSIGE NEIGUNGEN WENDEN SIE SICH BITTE AN DAS TECHNISCHE BÜRO VON NEWSTARK

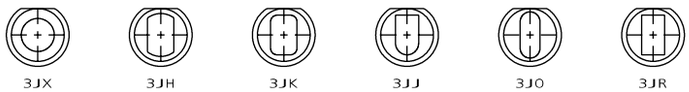
0011 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



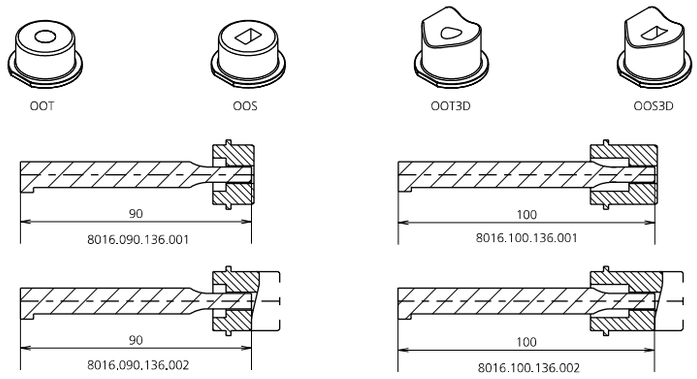
013 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



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



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



012 (9003) SENSORE / SENSOR / SENSOR

12 PATENT PENDING

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

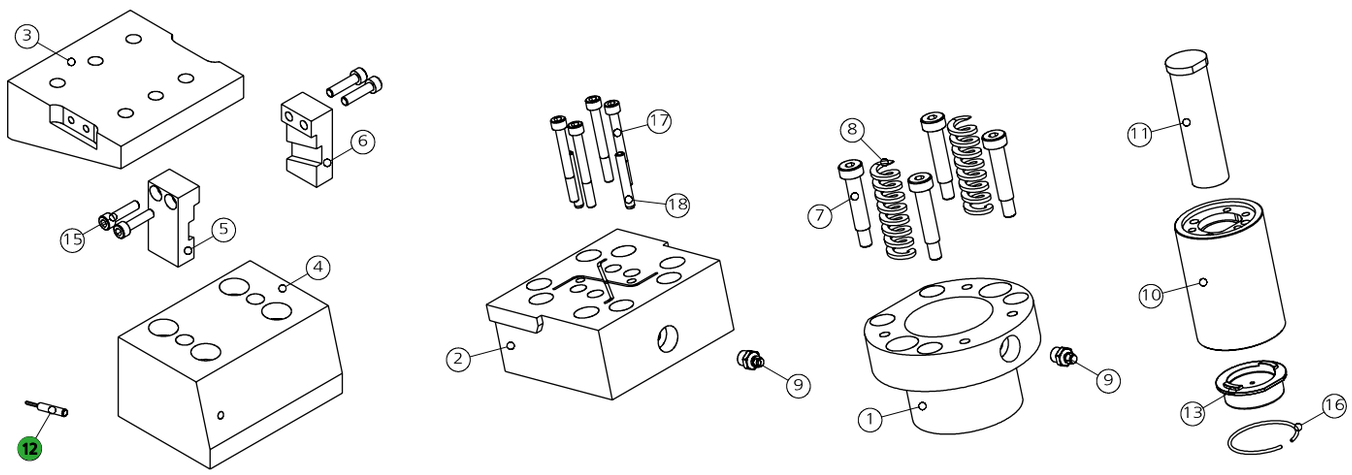
MODEL **0148.6956** INCLINATION **+10°** BLANKHOLDER **9016/8016.____** OPTION CODE **9003.0001**

0148.1160 - **CAM SMEG1160-20**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **1160 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **2550 daN**

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



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

POS.	CODE	DESCRIPTION	Q.TY
006	8115.4851.1106.20.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20°	1*CHOOSE
006	8115.4851.1106.25.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25°	1*CHOOSE
006	8115.4851.1106.30.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30°	1*CHOOSE
006	8115.4851.1106.35.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35°	1*CHOOSE
006	8115.4851.1106.40.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40°	1*CHOOSE
006	8115.4851.1106.45.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°	1*CHOOSE
006	8115.4851.1106.50.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50°	1*CHOOSE
007	9008.0810.040	VITE A COLLETTO / SHOULDER SCREW / ANSATZSCHRAUBE	4
008	9009.3000.0890.200	MOLLA / SPRING / FEDER	2
009	9006.002	INGRASSATORE / NIPPLES / SCHMIERUNG	2
010	9030.020.001	CILINDRO SPECIALE / SPECIAL CYLINDER / SPEZIALZYLINDER	1
011	9090.3JBM2.200.090	PUNZONE SBOZZATO TC CON ESPULSORE / BLANK-HEADED PUNCH WITH EJECTOR / ROHLING SCHNEIDSTEMPEL MIT ABSTOSSER 10 90	1*OPTION
011	9090.3JBM2.200.100	PUNZONE SBOZZATO TC CON ESPULSORE / BLANK-HEADED PUNCH WITH EJECTOR / ROHLING SCHNEIDSTEMPEL MIT ABSTOSSER 10 100	1*OPTION
011	093J_M2.200.090	PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 90	1*OPTION
011	093J_M2.200.100	PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 100	1*OPTION
012	9003.0001	SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT	1*OPTION
013	9016.090.205.001	PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM	1*CHOOSE
013	9016.090.205.002	PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM	1*CHOOSE
013	9016.100.205.001	PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM	1*CHOOSE
013	9016.100.205.002	PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM	1*CHOOSE
013	8016.090.205.001	PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM	1*OPTION
013	8016.090.205.002	PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM	1*OPTION
013	8016.100.205.001	PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM	1*OPTION
013	8016.100.205.002	PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM	1*OPTION
015	9007.06.020.129.1.4762	VITE / SCREW / SCHRAUBE M6X20	4
016	9004.2480.001	SEEGER / SEEGER / SEEGERRING	1
017	9007.06.055.129.1.4762	VITE / SCREW / SCHRAUBE M6X55	4
018	9028.06.020.8735	SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D6X20	2

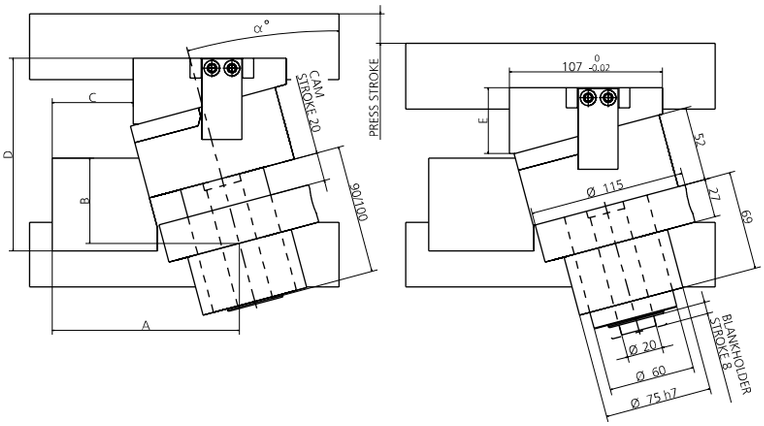
0148.1160 - **CAM SMEG1160-20**

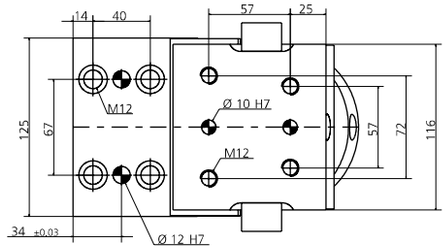
PATENT PENDING

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **1160 daN**

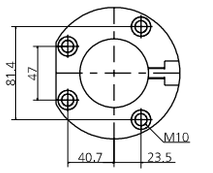
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **2550 daN**

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





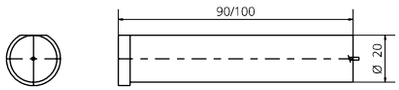
FISSAGGIO DELLE BOCCOLE DI GUIDA
DRILLING OF THE GUIDE BUSHINGS



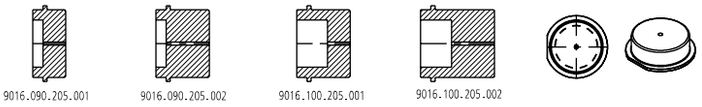
α°	PRESS STROKE	A	B	C	D	E
5°	20.1	141.7	71.6	83.45	123.4	35
10°	20.3	143.3	65.6	77	125.5	35
15°	20.7	144.23	56.6	70	135	46
20°	21.3	144.6	53.6	63.85	144.65	54
25°	22.05	144.15	47.1	55.9	154.25	64
30°	23.1	143.75	36.9	48	159	67
35°	24.4	142.9	31.9	41.15	167.75	76
40°	26.1	139.85	24.9	32.6	179.25	86
45°	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, PLEASECONTACT NEWSTARK TECHNICAL OFFICE.
/ * FÜR NICHT STANDARDMÄSSIGE NEIGUNGEN WENDEN SIE SICH BITTE AN DAS TECHNISCHE BÜRO VON NEWSTARK

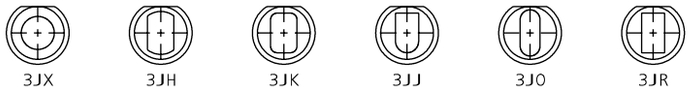
0011 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



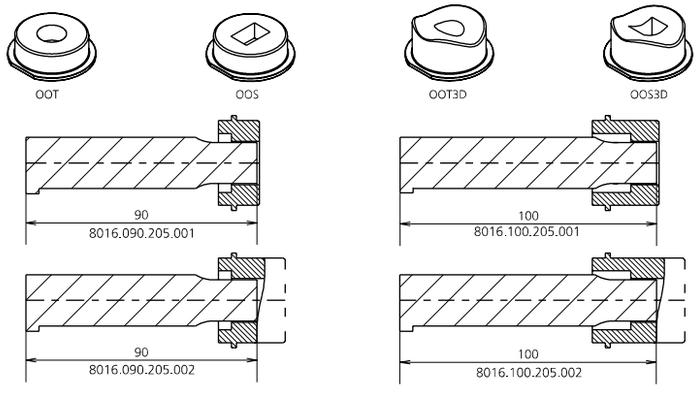
013 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



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



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



012 (9003) SENSORE / SENSOR / SENSOR

12 PATENT PENDING

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

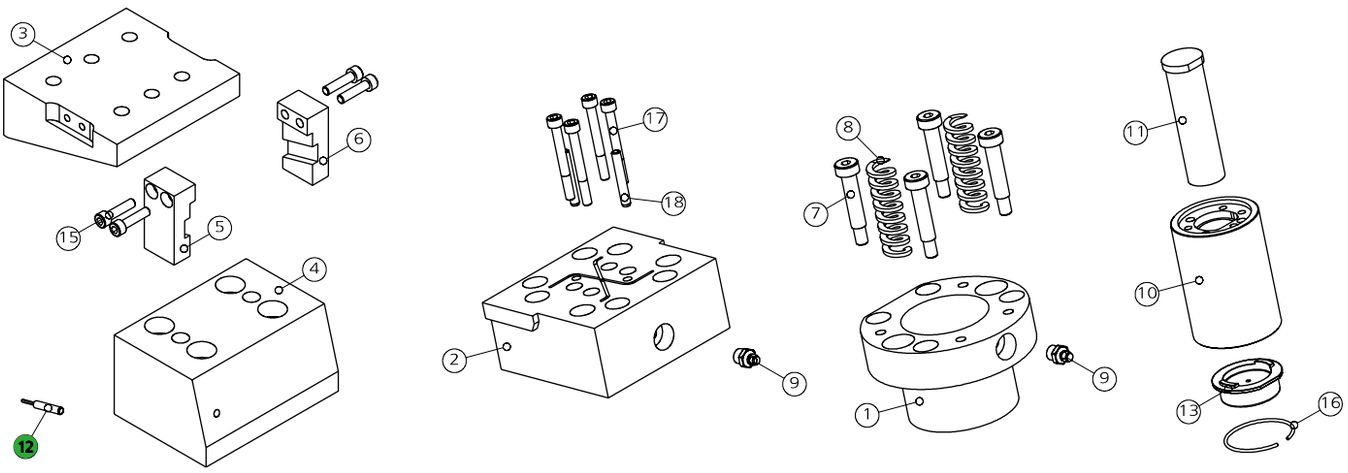
MODEL **0148.1160** INCLINATION **+10°** BLANKHOLDER **9016/8016.____** OPTION CODE **9003.0001**

0148.1165 - **CAM SMEG1160-25**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **1160 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **2550 daN**

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



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

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

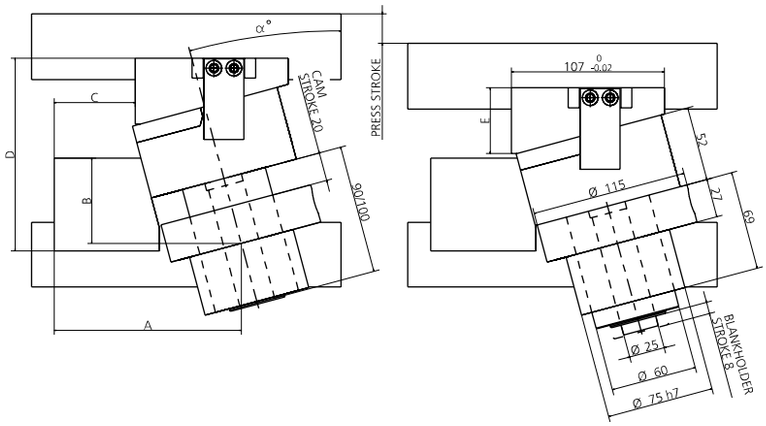
0148.1165 - **CAM SMEG1160-25**

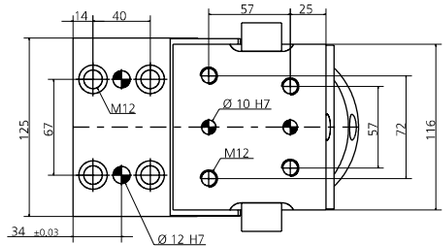
PATENT PENDING

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **1160 daN**

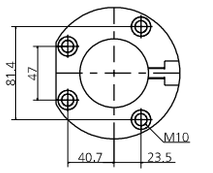
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **2550 daN**

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





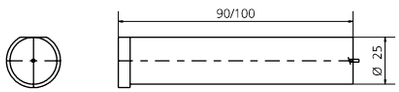
FISSAGGIO DELLE BOCCOLE DI GUIDA
DRILLING OF THE GUIDE BUSHINGS



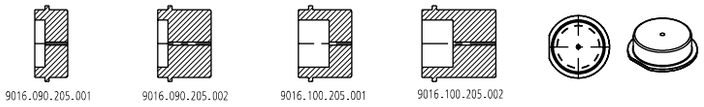
α°	PRESS STROKE	A	B	C	D	E
5°	20.1	141.7	71.6	83.45	123.4	35
10°	20.3	143.3	65.6	77	125.5	35
15°	20.7	144.23	56.6	70	135	46
20°	21.3	144.6	53.6	63.85	144.65	54
25°	22.05	144.15	47.1	55.9	154.25	64
30°	23.1	143.75	36.9	48	159	67
35°	24.4	142.9	31.9	41.15	167.75	76
40°	26.1	139.85	24.9	32.6	179.25	86
45°	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, 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

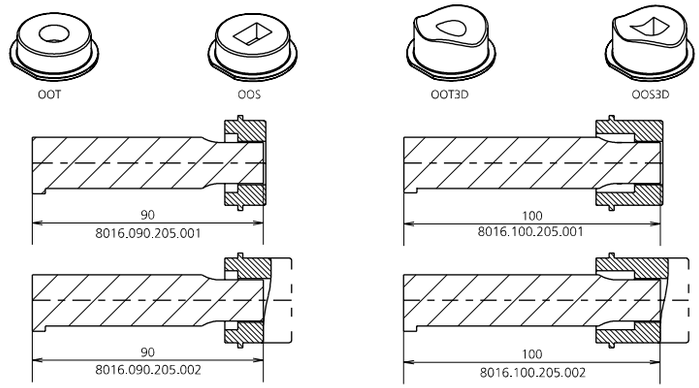


013 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



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

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



012 (9003) SENSORE / SENSOR / SENSOR

12 PATENT PENDING

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

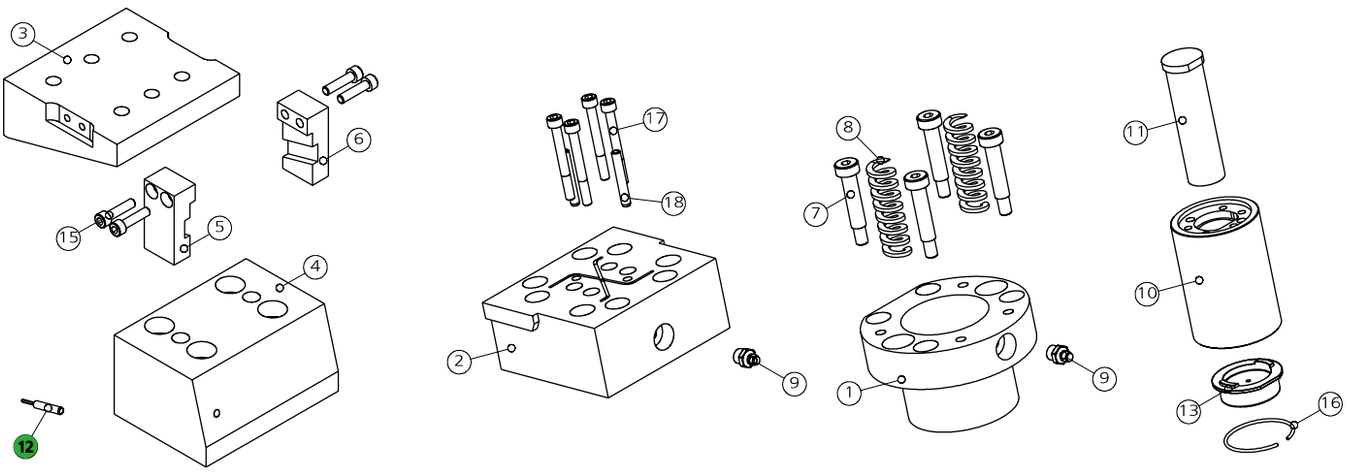
MODEL **0148.1165** INCLINATION **+10°** BLANKHOLDER **9016/8016.____** OPTION CODE **9003.0001**

0148.1392 - **CAM SMEG1390-32**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **1390 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **3050 daN**

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



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

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

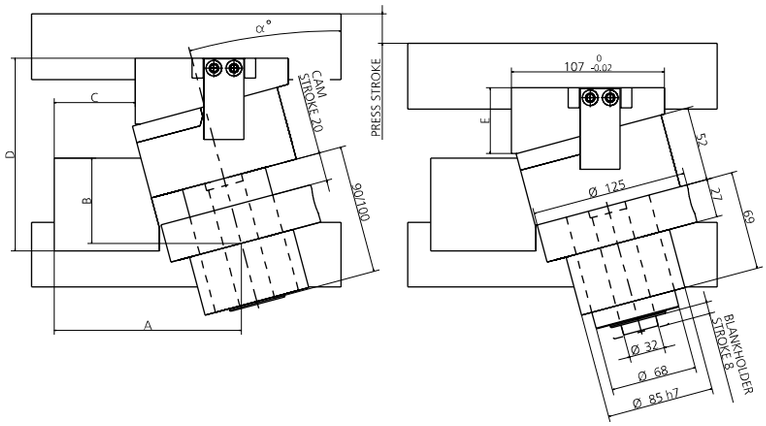
0148.1392 - **CAM SMEG1390-32**

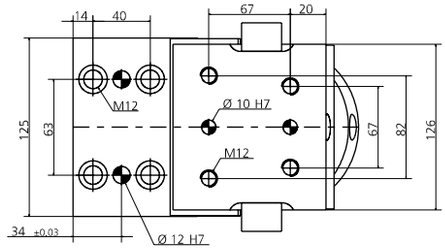
PATENT PENDING

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION **1390 daN**

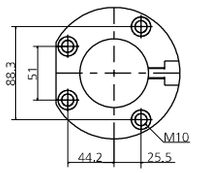
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION **3050 daN**

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





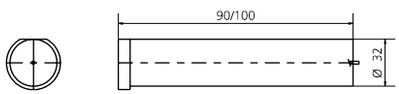
FISSAGGIO DELLE BOCCOLE DI GUIDA
DRILLING OF THE GUIDE BUSHINGS



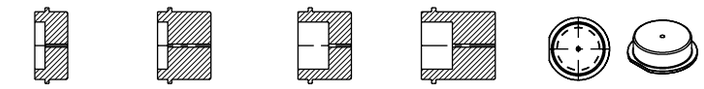
α°	PRESS STROKE	A	B	C	D	E
5°	20.1	144	69.4	87.65	127.8	37
10°	20.3	145.6	64.4	81.25	127.5	37
15°	20.7	146.5	58.4	73.15	135.95	46
20°	21.3	146.5	51.4	66.6	146.65	54
25°	22.05	145.65	44.4	58.25	156.8	64
30°	23.1	145.55	35.7	50.65	160.25	67
35°	24.4	144.6	30.7	43.7	169.1	77
40°	26.1	140.65	22.7	33.75	181.3	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 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

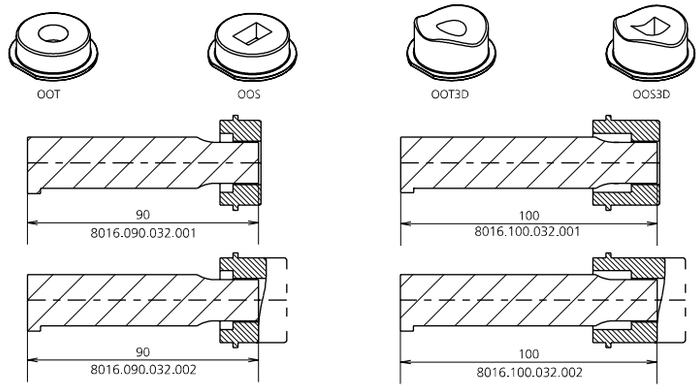


013 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



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

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



012 (9003) SENSORE / SENSOR / SENSOR

12 PATENT PENDING

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

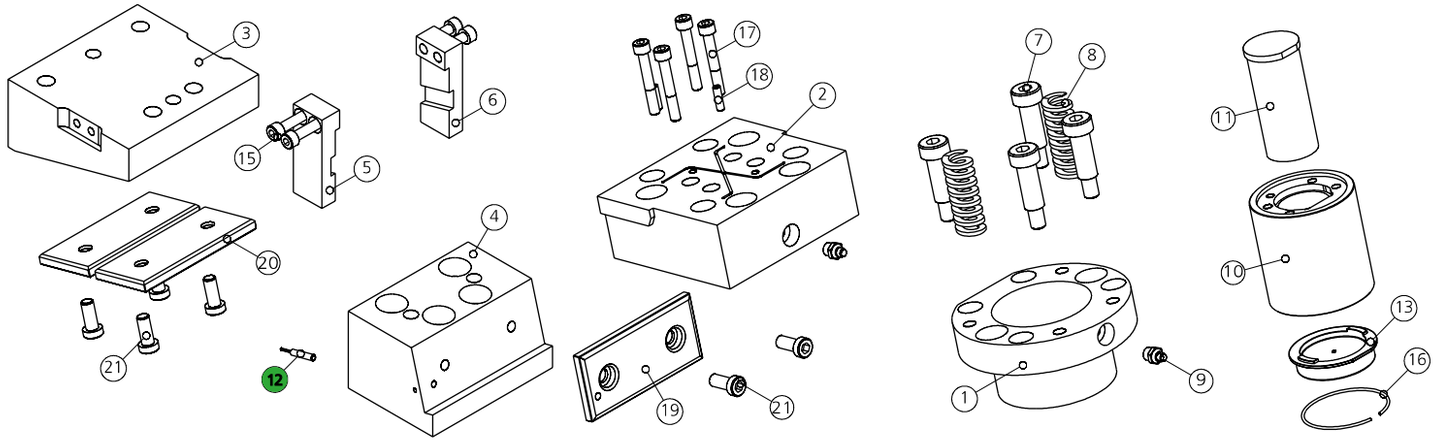
MODEL **0148.1392** INCLINATION **+10°** BLANKHOLDER **9016/8016.____** OPTION CODE **9003.0001**

0148.1880 - **CAM SMEG1880-40**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION **1880 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION **4100 daN**

SFORZO MAX TRANCIO **17000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



POS.	CODE	DESCRIPTION	Q.TY
001	8013.0690.1450.810.001	BOCCOLA DI GUIDA / GUIDEBUSHINGS / FÜHRUNGSBÜCHSE	1
002	8014.0048.1880	PORTA PUNZONE / PUNCHS HOLDER / TRÄGERPLATTE	1
003	8116.4851.1808.05.001	INCUDINE / ANVIL / TREIBER 5°	1*CHOOSE
003	8116.4851.1808.10.001	INCUDINE / ANVIL / TREIBER 10°	1*CHOOSE
003	8116.4851.1808.15.001	INCUDINE / ANVIL / TREIBER 15°	1*CHOOSE
003	8116.4851.1808.20.001	INCUDINE / ANVIL / TREIBER 20°	1*CHOOSE
003	8116.4851.1808.25.001	INCUDINE / ANVIL / TREIBER 25°	1*CHOOSE
003	8116.4851.1808.30.001	INCUDINE / ANVIL / TREIBER 30°	1*CHOOSE
003	8116.4851.1808.35.001	INCUDINE / ANVIL / TREIBER 35°	1*CHOOSE
003	8116.4851.1808.40.001	INCUDINE / ANVIL / TREIBER 40°	1*CHOOSE
003	8116.4851.1808.45.001	INCUDINE / ANVIL / TREIBER 45°	1*CHOOSE
003	8116.4851.1808.50.001	INCUDINE / ANVIL / TREIBER 50°	1*CHOOSE
004	8117.4851.1808.05.001	GUIDA / GUIDE / FÜHRUNG 5°	1*CHOOSE
004	8117.4851.1808.10.001	GUIDA / GUIDE / FÜHRUNG 10°	1*CHOOSE
004	8117.4851.1808.15.001	GUIDA / GUIDE / FÜHRUNG 15°	1*CHOOSE
004	8117.4851.1808.20.001	GUIDA / GUIDE / FÜHRUNG 20°	1*CHOOSE
004	8117.4851.1808.25.001	GUIDA / GUIDE / FÜHRUNG 25°	1*CHOOSE
004	8117.4851.1808.30.001	GUIDA / GUIDE / FÜHRUNG 30°	1*CHOOSE
004	8117.4851.1808.35.001	GUIDA / GUIDE / FÜHRUNG 35°	1*CHOOSE
004	8117.4851.1808.40.001	GUIDA / GUIDE / FÜHRUNG 40°	1*CHOOSE
004	8117.4851.1808.45.001	GUIDA / GUIDE / FÜHRUNG 45°	1*CHOOSE
004	8117.4851.1808.50.001	GUIDA / GUIDE / FÜHRUNG 50°	1*CHOOSE
005	8115.4851.1808.05.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°	1*CHOOSE
005	8115.4851.1808.10.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10°	1*CHOOSE
005	8115.4851.1808.15.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15°	1*CHOOSE
005	8115.4851.1808.20.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20°	1*CHOOSE
005	8115.4851.1808.25.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25°	1*CHOOSE
005	8115.4851.1808.30.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30°	1*CHOOSE
005	8115.4851.1808.35.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35°	1*CHOOSE
005	8115.4851.1808.40.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40°	1*CHOOSE
005	8115.4851.1808.45.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°	1*CHOOSE
005	8115.4851.1808.50.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50°	1*CHOOSE
006	8115.4851.1808.05.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°	1*CHOOSE
006	8115.4851.1808.10.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10°	1*CHOOSE
006	8115.4851.1808.15.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15°	1*CHOOSE
006	8115.4851.1808.20.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20°	1*CHOOSE
006	8115.4851.1808.25.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25°	1*CHOOSE
006	8115.4851.1808.30.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30°	1*CHOOSE
006	8115.4851.1808.35.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35°	1*CHOOSE
006	8115.4851.1808.40.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40°	1*CHOOSE
006	8115.4851.1808.45.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°	1*CHOOSE
006	8115.4851.1808.50.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50°	1*CHOOSE
007	9008.1216.040	VITE A COLLETTO / SHOULDER SCREW / ANSATZSCHRAUBE	4
008	9009.3000.0890.250	MOLLA / SPRING / FEDER	2
009	9006.002	INGRASSATORE / NIPPLES / SCHMIERUNG	2
010	9030.040.001	CILINDRO SPECIALE / SPECIAL CYLINDER / SPEZIALZYLINDER	1
011	9090.3JBM2.400.090	PUNZONE SBOZZATO TC CON ESPULSORE / BLANK-HEADED PUNCH WITH EJECTOR / ROHLING SCHNEIDSTEMPEL MIT ABSTOSSER 10 90	1*OPTION
011	9090.3JBM2.400.100	PUNZONE SBOZZATO TC CON ESPULSORE / BLANK-HEADED PUNCH WITH EJECTOR / ROHLING SCHNEIDSTEMPEL MIT ABSTOSSER 10 100	1*OPTION
011	093J_M2.400.090	PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 90	1*OPTION
011	093J_M2.400.100	PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 10 100	1*OPTION
012	9003.0001	SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT	1*OPTION
013	9016.090.040.001	PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM	1*CHOOSE
013	9016.090.040.002	PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM	1*CHOOSE
013	9016.100.040.001	PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM	1*CHOOSE
013	9016.100.040.002	PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM	1*CHOOSE
013	8016.090.040.001	PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM	1*OPTION
013	8016.090.040.002	PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 90MM	1*OPTION
013	8016.100.040.001	PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM	1*OPTION
013	8016.100.040.002	PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM	1*OPTION
015	9007.08.030.129.1.4762	VITE / SCREW / SCHRAUBE M8X30	4
016	9004.2680.001	SEEGER / SEEGER / SEEGERRING	1
017	9007.08.055.129.1.4762	VITE / SCREW / SCHRAUBE M8X55	4
018	9028.06.020.8735	SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D6X20	2
019	8012.1250.0580.100.003	PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE	1
020	9012.1250.0580.100.001	PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE	2
021	9007.10.020.129.1.9327	VITE / SCREW / SCHRAUBE M10X20	6

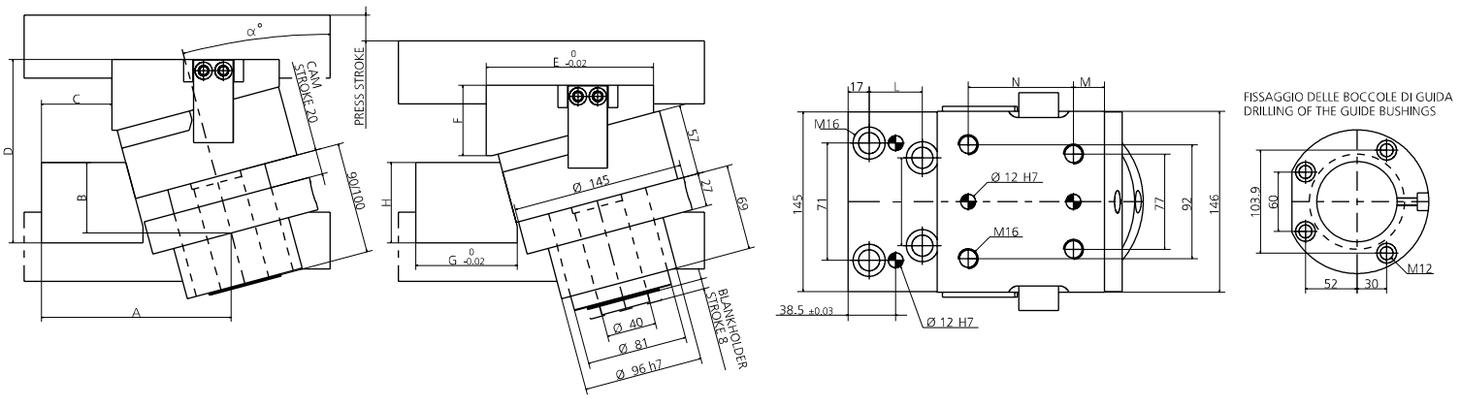
0148.1880 - **CAM SMEG1880-40**

PATENT PENDING

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION **1880 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION **4100 daN**

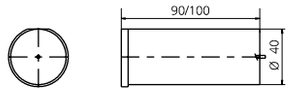
SFORZO MAX TRANCIO **17000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



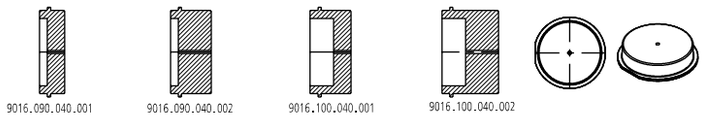
α°	PRESS STROKE	A	B	C	D	E	F	G	H	I	L	M	N
5°	20.1	165.85	74.9	87	155.1	136	56	95	75	41	43	23	90
10°	20.3	166.85	66.9	80	156.35	136	56	95	75	41	43	23	90
15°	20.7	167.35	59.9	73	166.65	136	51	95	75	41	38	23	90
20°	21.3	178.35	50.9	80.5	168.2	125	76	105	65	41	43	17.5	90
25°	22.05	177.35	43.9	71.5	166.95	125	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 TECNICONEWSTARK / * FOR NON-STANDARD INCLINATIONS, PLEASECONTACT NEWSTARK TECHNICAL OFFICE.
/ * FÜR NICHT STANDARDMÄSSIGE NEIGUNGEN WENDEN SIE SICH BITTE AN DAS TECHNISCHE BÜRO VON NEWSTARK

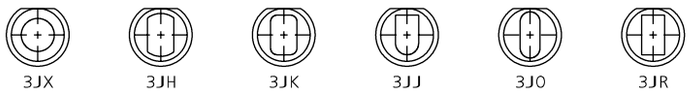
0011 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



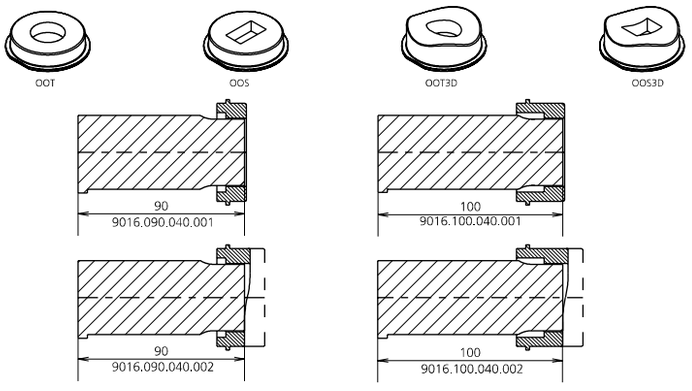
013 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



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



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



012 (9003) SENSORE / SENSOR / SENSOR

12 PATENT PENDING

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

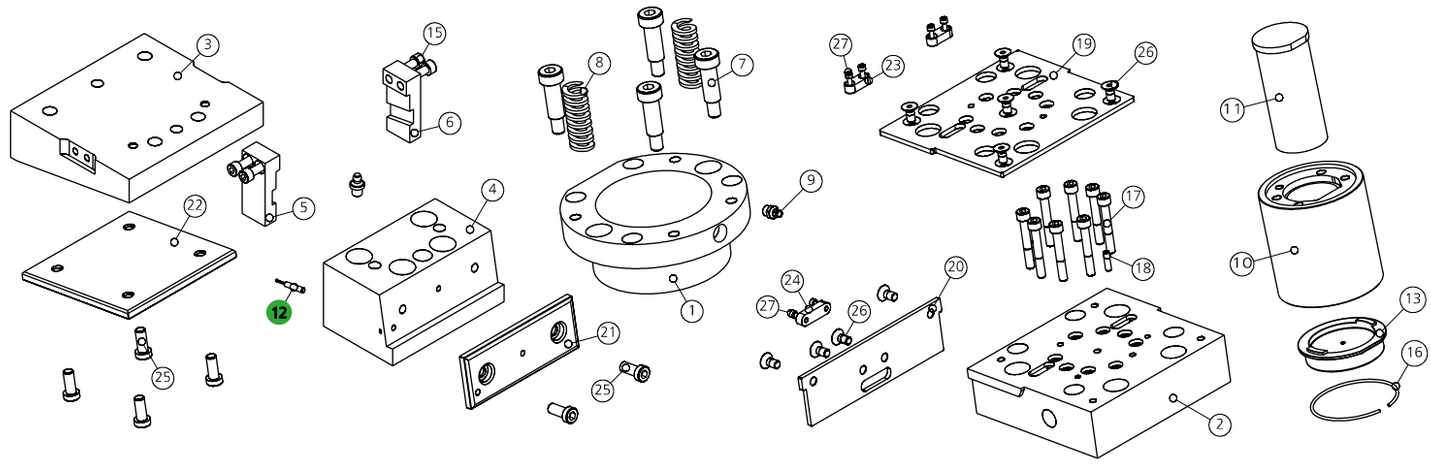
MODEL **0148.1880** INCLINATION **+10°** BLANKHOLDER **9016/8016.____** OPTION CODE **9003.0001**

0148.3303 - **CAM SMEG3300-63**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION **3300 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION **7250 daN**

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



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

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

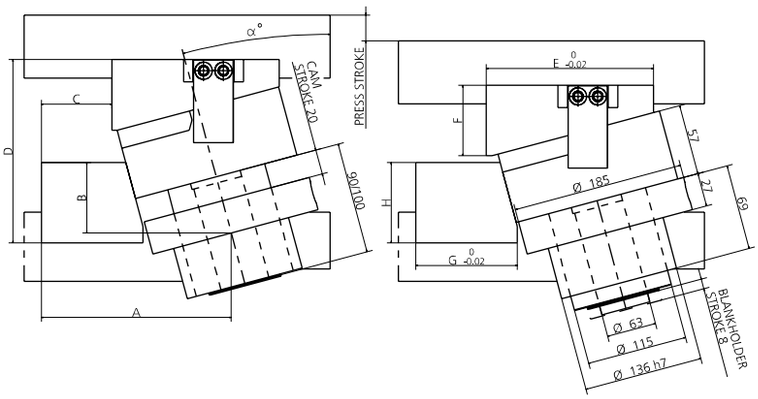
0148.3303 - **CAM SMEG3300-63**

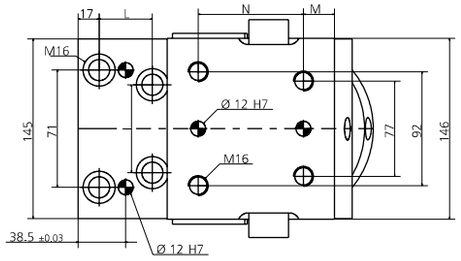
PATENT PENDING

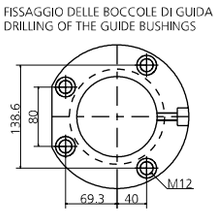
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION **3300 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION **7250 daN**

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



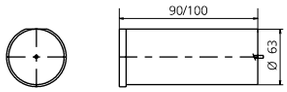




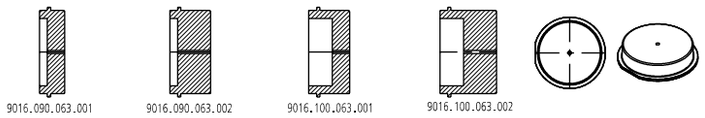
α°	PRESS STROKE	A	B	C	D	E	F	G	H	I	L	M	N
5°	20.1	187.35	77.85	95	142.05	165	46	96	76	56	43	27.5	110
10°	20.3	188.35	68.35	89.5	154.3	165	56	96	76	56	43	27.5	110
15°	20.7	199.35	59.35	99	167.65	155	67	106	76	56	43	22.5	110
20°	21.3	199.35	49.35	90	177.7	155	76	106	76	56	43	22.5	110
25°	22.05	198.35	39.35	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, 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

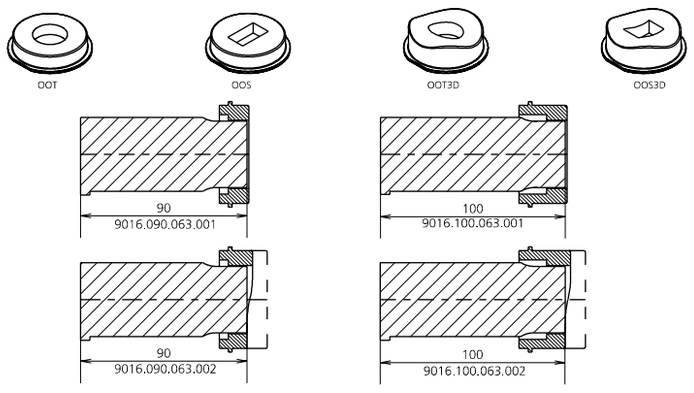


013 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



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

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



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**

100%
CUSTOMISABLE
PRODUCT

info@newstark.it

DOWNLOAD
3D FILES

newstark.it

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 tranciatura, foratura e piegatura.

EN Mechanical cam with a power of up to 60.000 daN with guaranteed re turn 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.

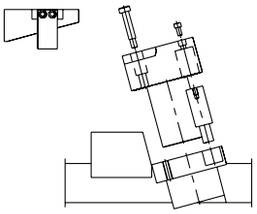
DE Mechanische Schieber mit einer Kraft von bis zu 60.000 daN und einem durch Stickstoffzylinder garantierten Rücklauf, an dem Zubehör oder Stähle angebracht werden, um die gewünschte Bearbeitung durchzuführen. Diese Stanzeinheit wird in einer geneigten Position von 5 ° bis 50 ° in Bezug auf die Vertikale 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

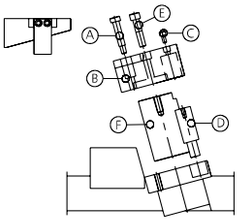
CAM **SUPER SMEG**

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.

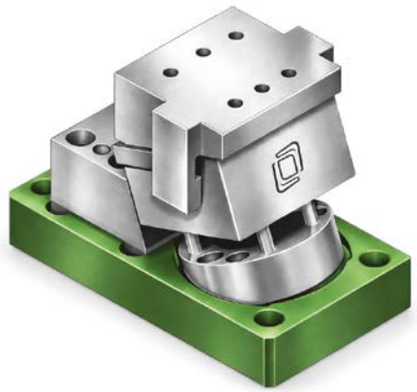
SMONTAGGIO PRODOTTO SUPER SMEG / PRODUCT DISASSEMBLY SUPER SMEG / DEMONTAGE DES PRODUKTES SUPER SMEG / DÉMONTAGE PRODUIT SUPER SMEG



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

PIASTRA ADATTATORE PERSONALIZZABILE: info@newstark.it
CUSTOM ADAPTOR PLATE: info@newstark.it

⚠ **Adaptor plate to avoid**
5 axix machining
(contact sales@newstark.it)



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 (MoS2). 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 (MoS2).

EN Attention: Undertake reassemly 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 (MoS2). 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 (MoS2).

DE Achtung: Wartungs-und Demontagearbeiten 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 (MoS2). Die Verwendung dieses Fett wird durch Newstark empfohlen.
6. Auf richtigen Sitz der einzelnen Komponenten achten.

Während des Gebrauches, mit Molybdändisulfidfett (MoS2) 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 collerette "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 (MoS2). Newstark recommande l'utilisation de cette graisse.
6. S'assurer que les différents éléments sont correctement repositionnés.

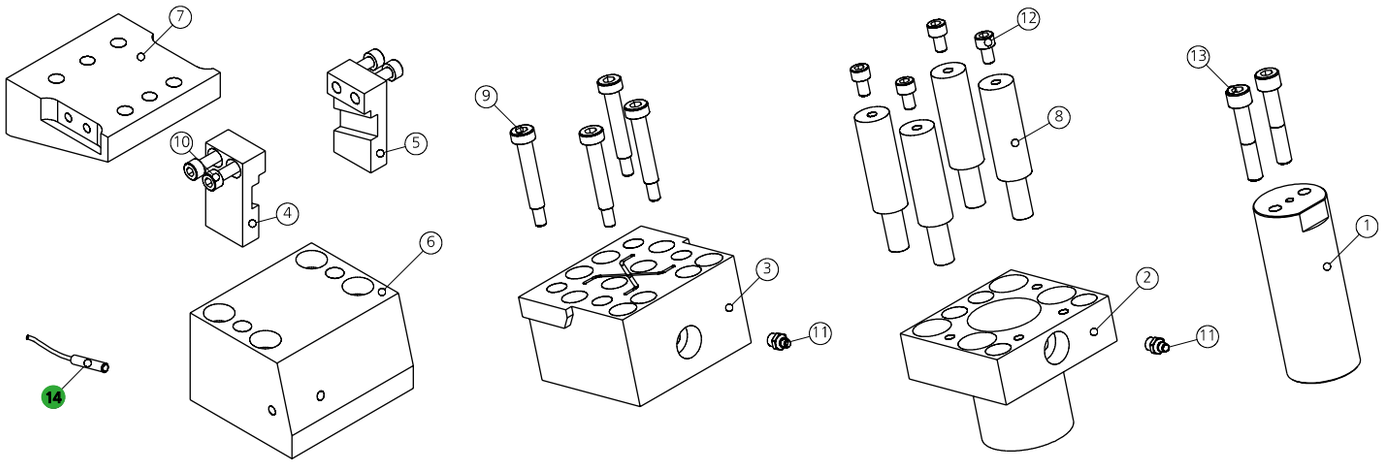
Lubrifier avec de la graisse au bisulfure de molybdène (MoS2).

0151.0604 - **CAM SUPER-SMEG0604**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **680 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **1030 daN**

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



POS.	CODE	DESCRIPTION	Q.TY
001	8018.1000.0000.400.001	PERNO CENTRALE / CENTRAL PIN / HAUPTSTIFT	1
002	8013.0690.0500.400.001	BOCCOLA DI GUIDA / GUIDEBUSHINGS / FÜHRUNGSBÜCHSE	1
003	8014.0051.0604	PORTA PUNZONE / PUNCHS HOLDER / TRÄGERPLATTE	1
004	8115.4851.0504.05.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°	1*CHOOSE
004	8115.4851.0504.10.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10°	1*CHOOSE
004	8115.4851.0504.15.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15°	1*CHOOSE
004	8115.4851.0504.20.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20°	1*CHOOSE
004	8115.4851.0504.25.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25°	1*CHOOSE
004	8115.4851.0504.30.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30°	1*CHOOSE
004	8115.4851.0504.35.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35°	1*CHOOSE
004	8115.4851.0504.40.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40°	1*CHOOSE
004	8115.4851.0504.45.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°	1*CHOOSE
004	8115.4851.0504.50.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50°	1*CHOOSE
005	8115.4851.0504.05.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°	1*CHOOSE
005	8115.4851.0504.10.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10°	1*CHOOSE
005	8115.4851.0504.15.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15°	1*CHOOSE
005	8115.4851.0504.20.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20°	1*CHOOSE
005	8115.4851.0504.25.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25°	1*CHOOSE
005	8115.4851.0504.30.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30°	1*CHOOSE
005	8115.4851.0504.35.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35°	1*CHOOSE
005	8115.4851.0504.40.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40°	1*CHOOSE
005	8115.4851.0504.45.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°	1*CHOOSE
005	8115.4851.0504.50.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50°	1*CHOOSE
006	8117.4851.0504.05.001	GUIDA / GUIDE / FÜHRUNG 5°	1*CHOOSE
006	8117.4851.0504.10.001	GUIDA / GUIDE / FÜHRUNG 10°	1*CHOOSE
006	8117.4851.0504.15.001	GUIDA / GUIDE / FÜHRUNG 15°	1*CHOOSE
006	8117.4851.0504.20.001	GUIDA / GUIDE / FÜHRUNG 20°	1*CHOOSE
006	8117.4851.0504.25.001	GUIDA / GUIDE / FÜHRUNG 25°	1*CHOOSE
006	8117.4851.0504.30.001	GUIDA / GUIDE / FÜHRUNG 30°	1*CHOOSE
006	8117.4851.0504.35.001	GUIDA / GUIDE / FÜHRUNG 35°	1*CHOOSE
006	8117.4851.0504.40.001	GUIDA / GUIDE / FÜHRUNG 40°	1*CHOOSE
006	8117.4851.0504.45.001	GUIDA / GUIDE / FÜHRUNG 45°	1*CHOOSE
006	8117.4851.0504.50.001	GUIDA / GUIDE / FÜHRUNG 50°	1*CHOOSE
007	8116.4851.0504.05.001	INCUDINE / ANVIL / TREIBER 5°	1*CHOOSE
007	8116.4851.0504.10.001	INCUDINE / ANVIL / TREIBER 10°	1*CHOOSE
007	8116.4851.0504.15.001	INCUDINE / ANVIL / TREIBER 15°	1*CHOOSE
007	8116.4851.0504.20.001	INCUDINE / ANVIL / TREIBER 20°	1*CHOOSE
007	8116.4851.0504.25.001	INCUDINE / ANVIL / TREIBER 25°	1*CHOOSE
007	8116.4851.0504.30.001	INCUDINE / ANVIL / TREIBER 30°	1*CHOOSE
007	8116.4851.0504.35.001	INCUDINE / ANVIL / TREIBER 35°	1*CHOOSE
007	8116.4851.0504.40.001	INCUDINE / ANVIL / TREIBER 40°	1*CHOOSE
007	8116.4851.0504.45.001	INCUDINE / ANVIL / TREIBER 45°	1*CHOOSE
007	8116.4851.0504.50.001	INCUDINE / ANVIL / TREIBER 50°	1*CHOOSE
008	9000.0025.0019.007	CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER	4
009	9008.0608.040	VITE A COLLETTO / SHOULDER SCREW / ANSATZSCHRAUBE	4
010	9007.06.020.129.1.4762	VITE / SCREW / SCHRAUBE M6X20	4
011	9006.002	INGRASSATORE / NIPPLES / SCHMIERUNG	2
012	9007.06.010.129.1.4762	VITE / SCREW / SCHRAUBE M6X10	4
013	9007.08.045.129.1.4762	VITE / SCREW / SCHRAUBE M8X45	2
014	9003.0001	SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT	1*OPTION

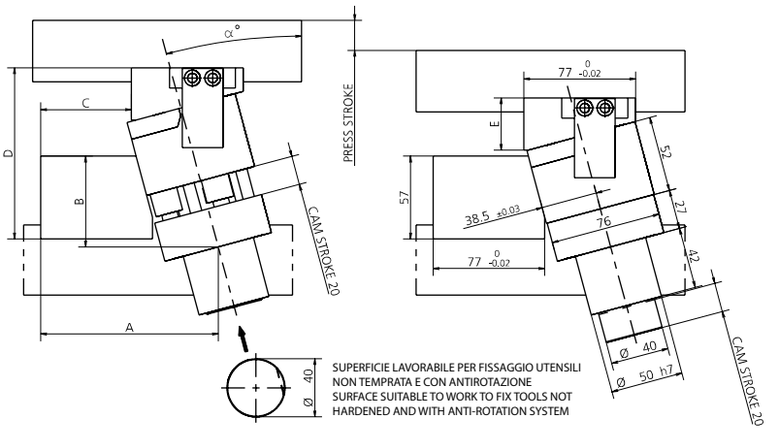
0151.0604 - **CAM SUPER-SMEG0604**

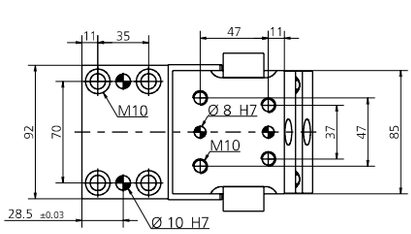
PATENT PENDING

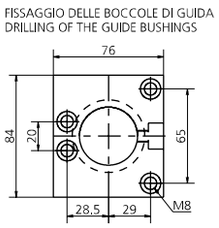
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION **680 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION **1030 daN**

SFORZO MAX TRANCIO **6000 daN**
CUTTING MAX FORCE
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 TECNICONEWSTARK / * FOR NON-STANDARD INCLINATIONS, PLEASECONTACT 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

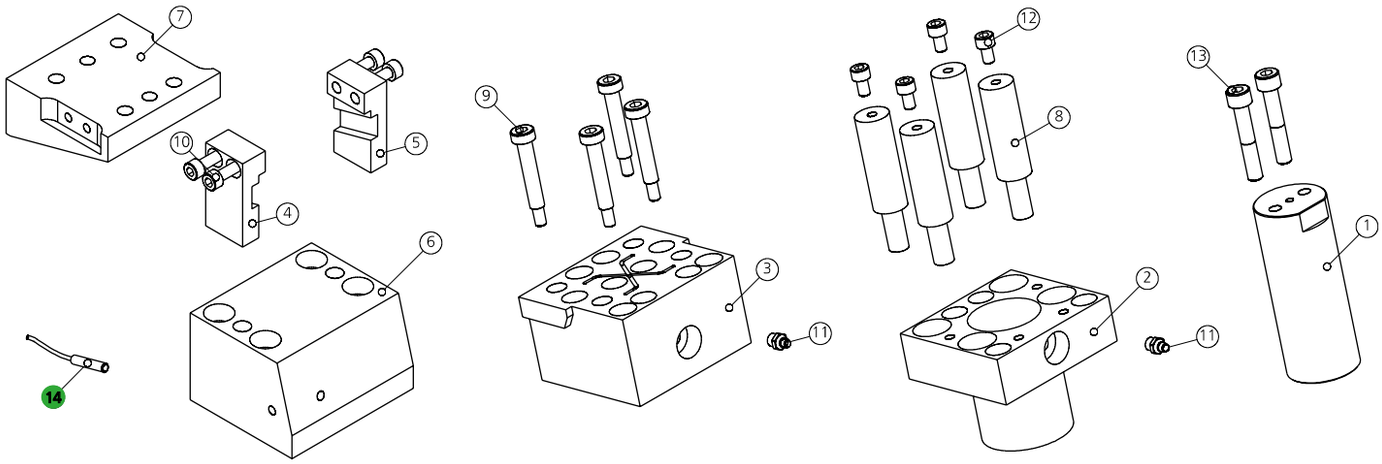
MODEL **0151.0604** INCLINATION **+10°** OPTION CODE **9003.0001**

0151.0605 - **CAM SUPER-SMEG0605**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **680 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **1030 daN**

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



POS.	CODE	DESCRIPTION	Q.TY
001	8018.1000.0000.500.001	PERNO CENTRALE / CENTRAL PIN / HAUPTSTIFT	1
002	8013.0690.0600.500.001	BOCCOLA DI GUIDA / GUIDEBUSHINGS / FÜHRUNGSBÜCHSE	1
003	8014.0051.0605	PORTA PUNZONE / PUNCHS HOLDER / TRÄGERPLATTE	1
004	8115.4851.0605.05.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°	1*CHOOSE
004	8115.4851.0605.10.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10°	1*CHOOSE
004	8115.4851.0605.15.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15°	1*CHOOSE
004	8115.4851.0605.20.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20°	1*CHOOSE
004	8115.4851.0605.25.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25°	1*CHOOSE
004	8115.4851.0605.30.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30°	1*CHOOSE
004	8115.4851.0605.35.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35°	1*CHOOSE
004	8115.4851.0605.40.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40°	1*CHOOSE
004	8115.4851.0605.45.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°	1*CHOOSE
004	8115.4851.0605.50.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50°	1*CHOOSE
005	8115.4851.0605.05.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°	1*CHOOSE
005	8115.4851.0605.10.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10°	1*CHOOSE
005	8115.4851.0605.15.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15°	1*CHOOSE
005	8115.4851.0605.20.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20°	1*CHOOSE
005	8115.4851.0605.25.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25°	1*CHOOSE
005	8115.4851.0605.30.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30°	1*CHOOSE
005	8115.4851.0605.35.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35°	1*CHOOSE
005	8115.4851.0605.40.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40°	1*CHOOSE
005	8115.4851.0605.45.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°	1*CHOOSE
005	8115.4851.0605.50.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50°	1*CHOOSE
006	8117.4851.0605.05.001	GUIDA / GUIDE / FÜHRUNG 5°	1*CHOOSE
006	8117.4851.0605.10.001	GUIDA / GUIDE / FÜHRUNG 10°	1*CHOOSE
006	8117.4851.0605.15.001	GUIDA / GUIDE / FÜHRUNG 15°	1*CHOOSE
006	8117.4851.0605.20.001	GUIDA / GUIDE / FÜHRUNG 20°	1*CHOOSE
006	8117.4851.0605.25.001	GUIDA / GUIDE / FÜHRUNG 25°	1*CHOOSE
006	8117.4851.0605.30.001	GUIDA / GUIDE / FÜHRUNG 30°	1*CHOOSE
006	8117.4851.0605.35.001	GUIDA / GUIDE / FÜHRUNG 35°	1*CHOOSE
006	8117.4851.0605.40.001	GUIDA / GUIDE / FÜHRUNG 40°	1*CHOOSE
006	8117.4851.0605.45.001	GUIDA / GUIDE / FÜHRUNG 45°	1*CHOOSE
006	8117.4851.0605.50.001	GUIDA / GUIDE / FÜHRUNG 50°	1*CHOOSE
007	8116.4851.0605.05.001	INCUDINE / ANVIL / TREIBER 5°	1*CHOOSE
007	8116.4851.0605.10.001	INCUDINE / ANVIL / TREIBER 10°	1*CHOOSE
007	8116.4851.0605.15.001	INCUDINE / ANVIL / TREIBER 15°	1*CHOOSE
007	8116.4851.0605.20.001	INCUDINE / ANVIL / TREIBER 20°	1*CHOOSE
007	8116.4851.0605.25.001	INCUDINE / ANVIL / TREIBER 25°	1*CHOOSE
007	8116.4851.0605.30.001	INCUDINE / ANVIL / TREIBER 30°	1*CHOOSE
007	8116.4851.0605.35.001	INCUDINE / ANVIL / TREIBER 35°	1*CHOOSE
007	8116.4851.0605.40.001	INCUDINE / ANVIL / TREIBER 40°	1*CHOOSE
007	8116.4851.0605.45.001	INCUDINE / ANVIL / TREIBER 45°	1*CHOOSE
007	8116.4851.0605.50.001	INCUDINE / ANVIL / TREIBER 50°	1*CHOOSE
008	9000.0025.0019.007	CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER	4
009	9008.0608.040	VITE A COLLETTO / SHOULDER SCREW / ANSATZSCHRAUBE	4
010	9007.06.020.129.1.4762	VITE / SCREW / SCHRAUBE M6X20	4
011	9006.002	INGRASSATORE / NIPPLES / SCHMIERUNG	2
012	9007.06.010.129.1.4762	VITE / SCREW / SCHRAUBE M6X10	4
013	9007.08.045.129.1.4762	VITE / SCREW / SCHRAUBE M8X45	2
014	9003.0001	SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT	1*OPTION

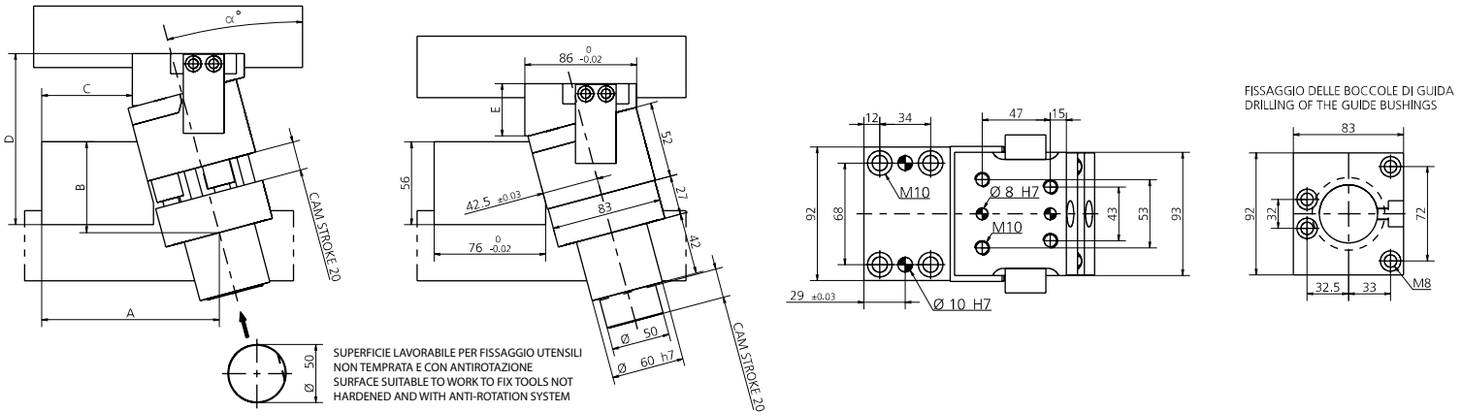
0151.0605 - **CAM SUPER-SMEG0605**

PATENT PENDING

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **680 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **1030 daN**

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



α°	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 TECNICONEWSTARK / * FOR NON-STANDARD INCLINATIONS, PLEASECONTACT 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

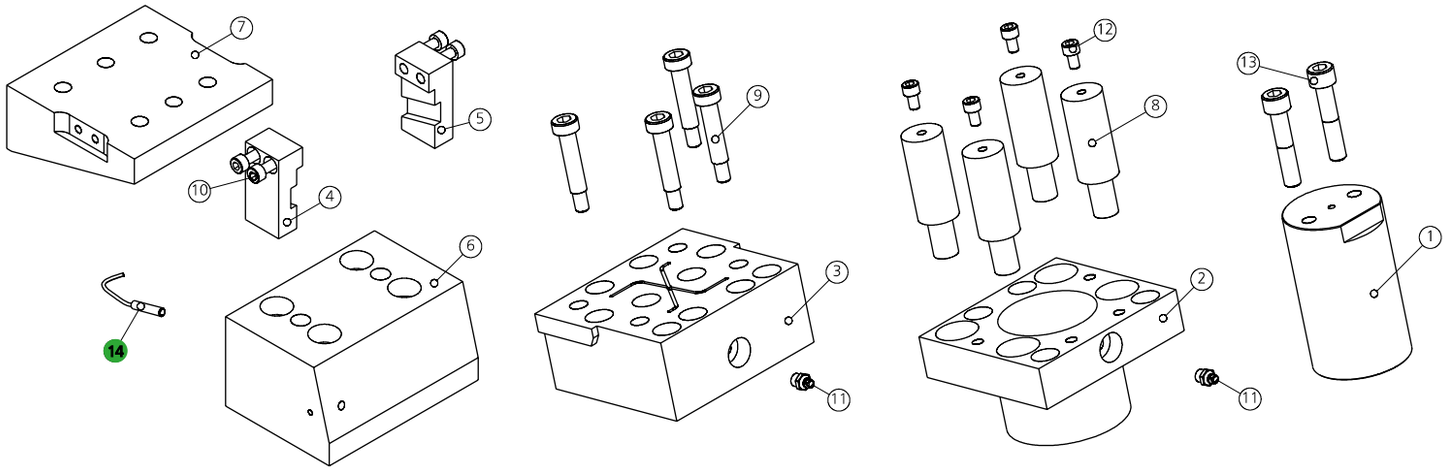
MODEL **0151.0605** INCLINATION **+10°** OPTION CODE **9003.0001**

0151.1206 - **CAM SUPER-SMEG1206**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **1280 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **1925 daN**

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



POS.	CODE	DESCRIPTION	Q.TY
001	8018.1000.0000.600.001	PERNO CENTRALE / CENTRAL PIN / HAUPTSTIFT	1
002	8013.0690.0750.600.001	BOCCOLA DI GUIDA / GUIDEBUSHINGS / FÜHRUNGSBÜCHSE	1
003	8014.0051.1206	PORTA PUNZONE / PUNCHS HOLDER / TRÄGERPLATTE	1
004	8115.4851.1106.05.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°	1*CHOOSE
004	8115.4851.1106.10.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10°	1*CHOOSE
004	8115.4851.1106.15.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15°	1*CHOOSE
004	8115.4851.1106.20.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20°	1*CHOOSE
004	8115.4851.1106.25.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25°	1*CHOOSE
004	8115.4851.1106.30.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30°	1*CHOOSE
004	8115.4851.1106.35.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35°	1*CHOOSE
004	8115.4851.1106.40.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40°	1*CHOOSE
004	8115.4851.1106.45.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°	1*CHOOSE
004	8115.4851.1106.50.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50°	1*CHOOSE
005	8115.4851.1106.05.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°	1*CHOOSE
005	8115.4851.1106.10.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10°	1*CHOOSE
005	8115.4851.1106.15.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15°	1*CHOOSE
005	8115.4851.1106.20.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20°	1*CHOOSE
005	8115.4851.1106.25.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25°	1*CHOOSE
005	8115.4851.1106.30.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30°	1*CHOOSE
005	8115.4851.1106.35.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35°	1*CHOOSE
005	8115.4851.1106.40.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40°	1*CHOOSE
005	8115.4851.1106.45.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°	1*CHOOSE
005	8115.4851.1106.50.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50°	1*CHOOSE
006	8117.4851.1106.05.001	GUIDA / GUIDE / FÜHRUNG 5°	1*CHOOSE
006	8117.4851.1106.10.001	GUIDA / GUIDE / FÜHRUNG 10°	1*CHOOSE
006	8117.4851.1106.15.001	GUIDA / GUIDE / FÜHRUNG 15°	1*CHOOSE
006	8117.4851.1106.20.001	GUIDA / GUIDE / FÜHRUNG 20°	1*CHOOSE
006	8117.4851.1106.25.001	GUIDA / GUIDE / FÜHRUNG 25°	1*CHOOSE
006	8117.4851.1106.30.001	GUIDA / GUIDE / FÜHRUNG 30°	1*CHOOSE
006	8117.4851.1106.35.001	GUIDA / GUIDE / FÜHRUNG 35°	1*CHOOSE
006	8117.4851.1106.40.001	GUIDA / GUIDE / FÜHRUNG 40°	1*CHOOSE
006	8117.4851.1106.45.001	GUIDA / GUIDE / FÜHRUNG 45°	1*CHOOSE
006	8117.4851.1106.50.001	GUIDA / GUIDE / FÜHRUNG 50°	1*CHOOSE
007	8116.4851.1106.05.001	INCUDINE / ANVIL / TREIBER 5°	1*CHOOSE
007	8116.4851.1106.10.001	INCUDINE / ANVIL / TREIBER 10°	1*CHOOSE
007	8116.4851.1106.15.001	INCUDINE / ANVIL / TREIBER 15°	1*CHOOSE
007	8116.4851.1106.20.001	INCUDINE / ANVIL / TREIBER 20°	1*CHOOSE
007	8116.4851.1106.25.001	INCUDINE / ANVIL / TREIBER 25°	1*CHOOSE
007	8116.4851.1106.30.001	INCUDINE / ANVIL / TREIBER 30°	1*CHOOSE
007	8116.4851.1106.35.001	INCUDINE / ANVIL / TREIBER 35°	1*CHOOSE
007	8116.4851.1106.40.001	INCUDINE / ANVIL / TREIBER 40°	1*CHOOSE
007	8116.4851.1106.45.001	INCUDINE / ANVIL / TREIBER 45°	1*CHOOSE
007	8116.4851.1106.50.001	INCUDINE / ANVIL / TREIBER 50°	1*CHOOSE
008	9000.0025.0025.001	CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER	4
009	9008.0810.040	VITE A COLLETTO / SHOULDER SCREW / ANSATZSCHRAUBE	4
010	9007.06.020.129.1.4762	VITE / SCREW / SCHRAUBE M6X20	4
011	9006.002	INGRASSATORE / NIPPLES / SCHMIERUNG	2
012	9007.06.010.129.1.4762	VITE / SCREW / SCHRAUBE M6X10	4
013	9007.10.050.129.1.4762	VITE / SCREW / SCHRAUBE M10X50	2
014	9003.0001	SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT	1*OPTION

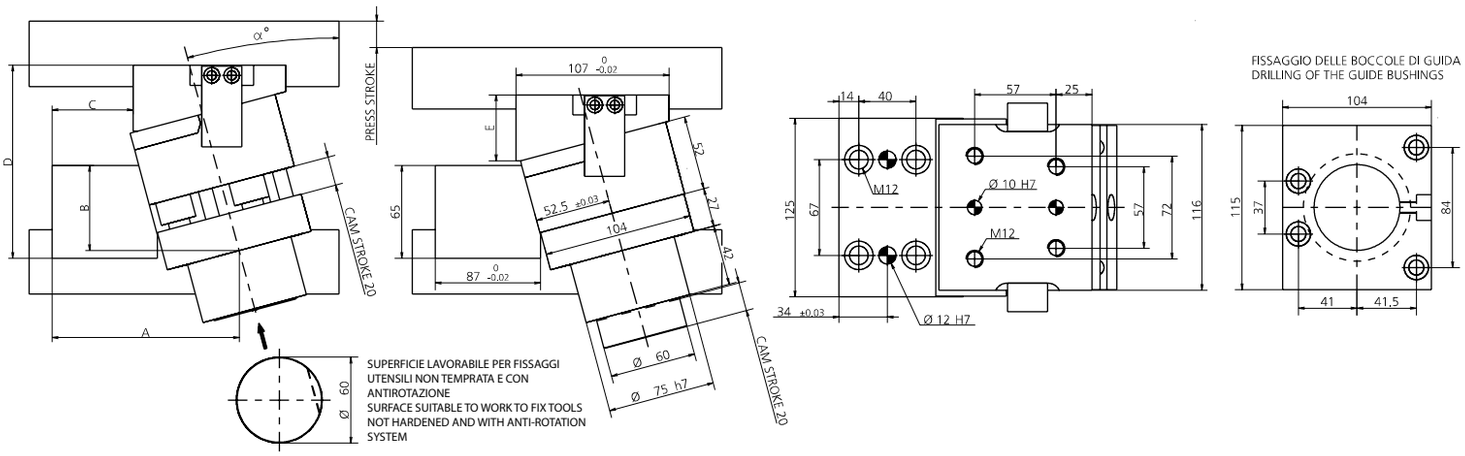
0151.1206 - **CAM SUPER-SMEG1206**

PATENT PENDING

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION **1280 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION **1925 daN**

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



α°	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, PLEASECONTACT 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

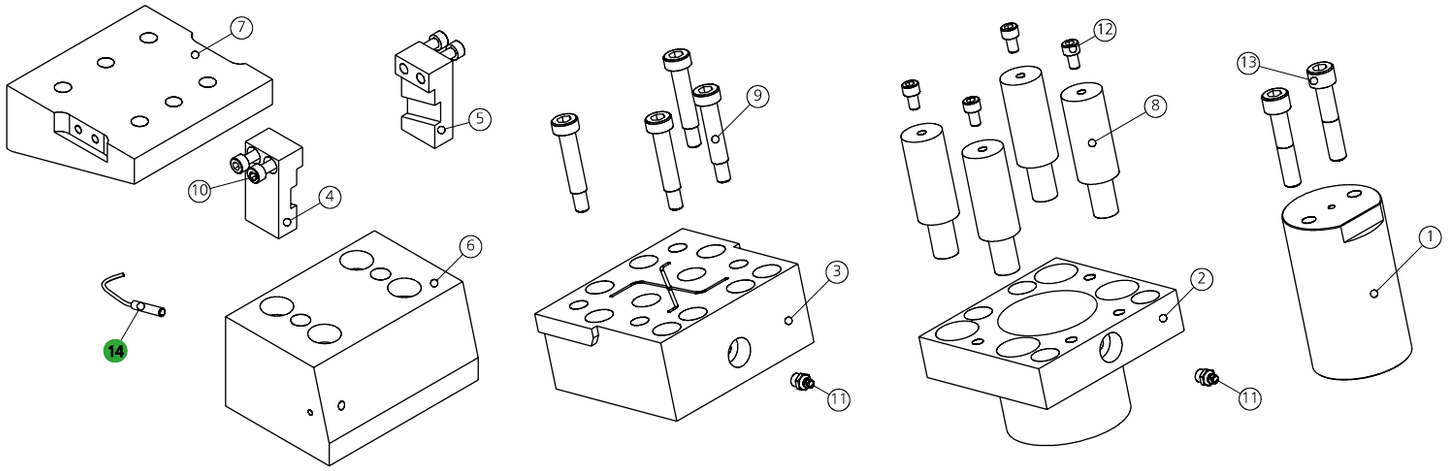
MODEL **0151.1206** INCLINATION **+10°** OPTION CODE **9003.0001**

0151.1207 - **CAM SUPER-SMEG1207**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **1280 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **1925 daN**

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



POS.	CODE	DESCRIPTION	Q.TY
001	8018.1000.0000.700.001	PERNO CENTRALE / CENTRAL PIN / HAUPTSTIFT	1
002	8013.0690.0850.700.001	BOCCOLA DI GUIDA / GUIDEBUSHINGS / FÜHRUNGSBÜCHSE	1
003	8014.0051.1207	PORTA PUNZONE / PUNCHS HOLDER / TRÄGERPLATTE	1
004	8115.4851.1307.05.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°	1*CHOOSE
004	8115.4851.1307.10.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10°	1*CHOOSE
004	8115.4851.1307.15.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15°	1*CHOOSE
004	8115.4851.1307.20.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20°	1*CHOOSE
004	8115.4851.1307.25.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25°	1*CHOOSE
004	8115.4851.1307.30.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30°	1*CHOOSE
004	8115.4851.1307.35.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35°	1*CHOOSE
004	8115.4851.1307.40.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40°	1*CHOOSE
004	8115.4851.1307.45.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°	1*CHOOSE
004	8115.4851.1307.50.001	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50°	1*CHOOSE
005	8115.4851.1307.05.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°	1*CHOOSE
005	8115.4851.1307.10.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10°	1*CHOOSE
005	8115.4851.1307.15.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15°	1*CHOOSE
005	8115.4851.1307.20.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20°	1*CHOOSE
005	8115.4851.1307.25.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25°	1*CHOOSE
005	8115.4851.1307.30.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30°	1*CHOOSE
005	8115.4851.1307.35.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35°	1*CHOOSE
005	8115.4851.1307.40.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40°	1*CHOOSE
005	8115.4851.1307.45.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°	1*CHOOSE
005	8115.4851.1307.50.002	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50°	1*CHOOSE
006	8117.4851.1307.05.001	GUIDA / GUIDE / FÜHRUNG 5°	1*CHOOSE
006	8117.4851.1307.10.001	GUIDA / GUIDE / FÜHRUNG 10°	1*CHOOSE
006	8117.4851.1307.15.001	GUIDA / GUIDE / FÜHRUNG 15°	1*CHOOSE
006	8117.4851.1307.20.001	GUIDA / GUIDE / FÜHRUNG 20°	1*CHOOSE
006	8117.4851.1307.25.001	GUIDA / GUIDE / FÜHRUNG 25°	1*CHOOSE
006	8117.4851.1307.30.001	GUIDA / GUIDE / FÜHRUNG 30°	1*CHOOSE
006	8117.4851.1307.35.001	GUIDA / GUIDE / FÜHRUNG 35°	1*CHOOSE
006	8117.4851.1307.40.001	GUIDA / GUIDE / FÜHRUNG 40°	1*CHOOSE
006	8117.4851.1307.45.001	GUIDA / GUIDE / FÜHRUNG 45°	1*CHOOSE
006	8117.4851.1307.50.001	GUIDA / GUIDE / FÜHRUNG 50°	1*CHOOSE
007	8116.4851.1307.05.001	INCUDINE / ANVIL / TREIBER 5°	1*CHOOSE
007	8116.4851.1307.10.001	INCUDINE / ANVIL / TREIBER 10°	1*CHOOSE
007	8116.4851.1307.15.001	INCUDINE / ANVIL / TREIBER 15°	1*CHOOSE
007	8116.4851.1307.20.001	INCUDINE / ANVIL / TREIBER 20°	1*CHOOSE
007	8116.4851.1307.25.001	INCUDINE / ANVIL / TREIBER 25°	1*CHOOSE
007	8116.4851.1307.30.001	INCUDINE / ANVIL / TREIBER 30°	1*CHOOSE
007	8116.4851.1307.35.001	INCUDINE / ANVIL / TREIBER 35°	1*CHOOSE
007	8116.4851.1307.40.001	INCUDINE / ANVIL / TREIBER 40°	1*CHOOSE
007	8116.4851.1307.45.001	INCUDINE / ANVIL / TREIBER 45°	1*CHOOSE
007	8116.4851.1307.50.001	INCUDINE / ANVIL / TREIBER 50°	1*CHOOSE
008	9000.0025.0025.001	CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER	4
009	9008.1012.040	VITE A COLLETTO / SHOULDER SCREW / ANSATZSCHRAUBE	4
010	9007.06.020.129.1.4762	VITE / SCREW / SCHRAUBE M6X20	4
011	9006.002	INGRASSATORE / NIPPLES / SCHMIERUNG	2
012	9007.06.010.129.1.4762	VITE / SCREW / SCHRAUBE M6X10	4
013	9007.12.050.129.1.4762	VITE / SCREW / SCHRAUBE M12X50	2
014	9003.0001	SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT	1*OPTION

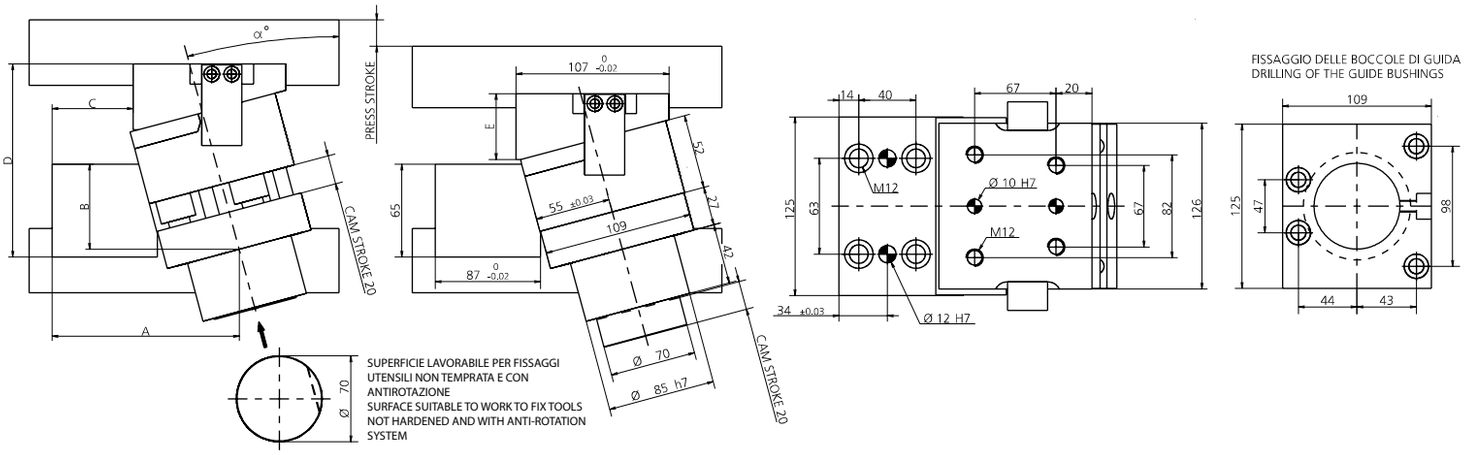
0151.1207 - **CAM SUPER-SMEG1207**

PATENT PENDING

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION **1280 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION **1925 daN**

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



α°	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 TECNICONEWSTARK / * FOR NON-STANDARD INCLINATIONS, PLEASECONTACT 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

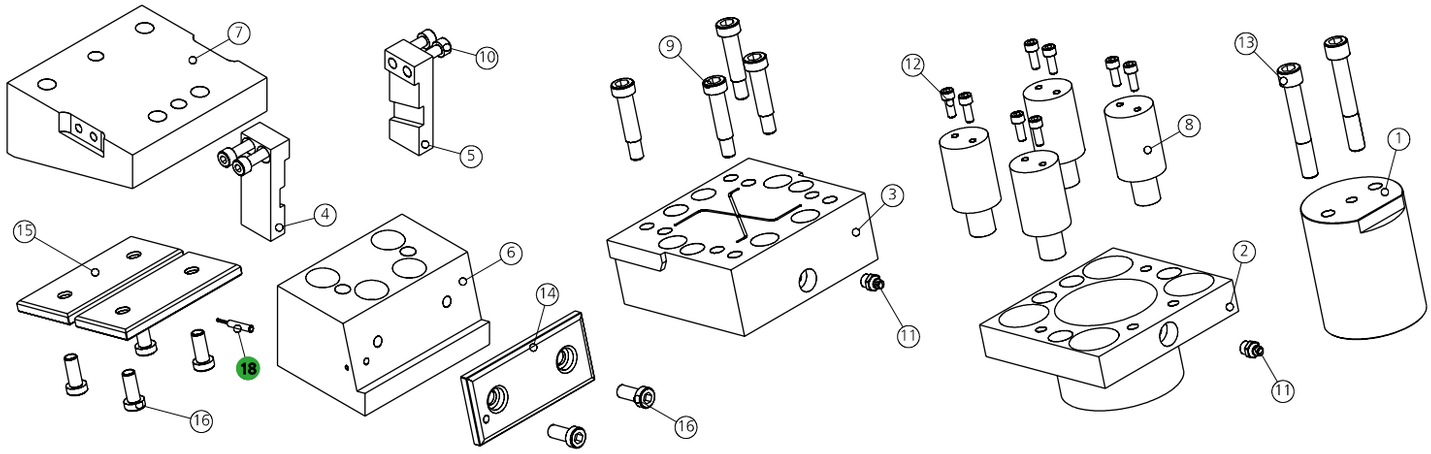
MODEL **0151.1207** INCLINATION **+10°** OPTION CODE **9003.0001**

0151.2008 - **CAM SUPER-SMEG2008**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **2000 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **2700 daN**

SFORZO MAX TRANCIO — **20000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



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

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

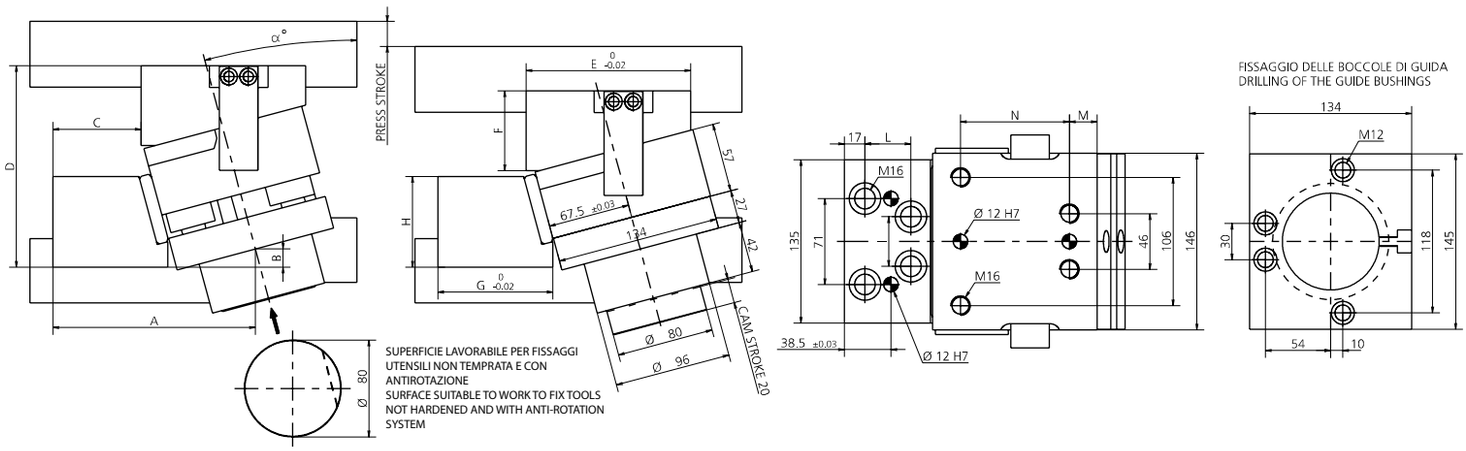
0151.2008 - **CAM SUPER-SMEG2008**

PATENT PENDING

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **2000 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **2700 daN**

SFORZO MAX TRANCIO — **20000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



α°	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 TECNICONEWSTARK / * FOR NON-STANDARD INCLINATIONS, PLEASECONTACT 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

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

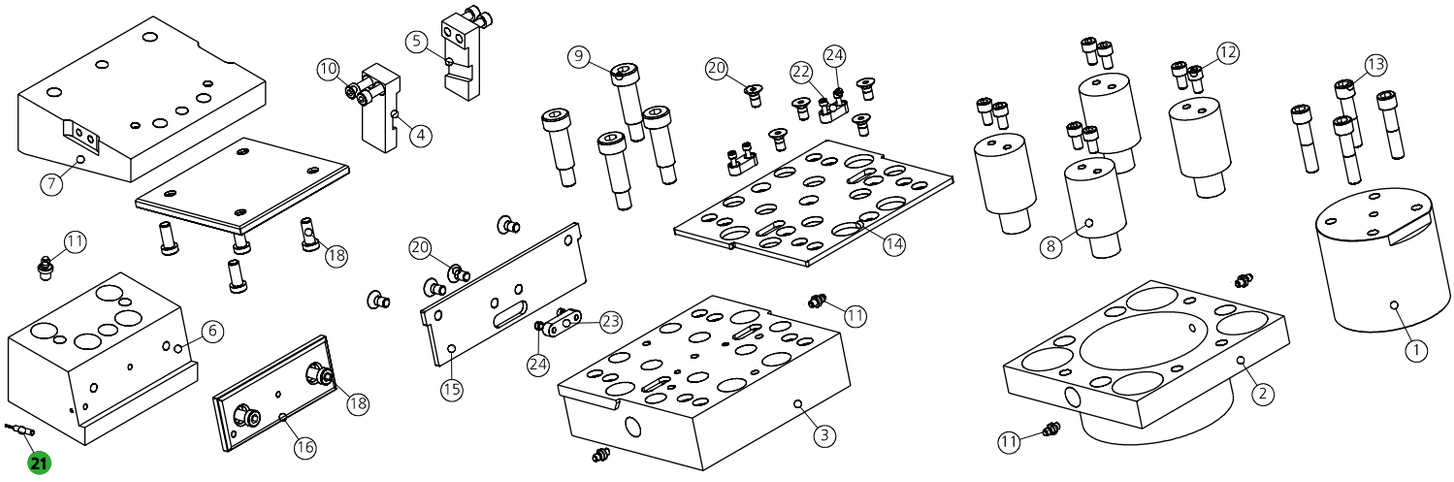
MODEL **0151.2008** INCLINATION **+10°** OPTION CODE **9003.0001**

0151.3011 - **CAM SUPER-SMEG3011**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION **3000 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION **4250 daN**

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



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

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

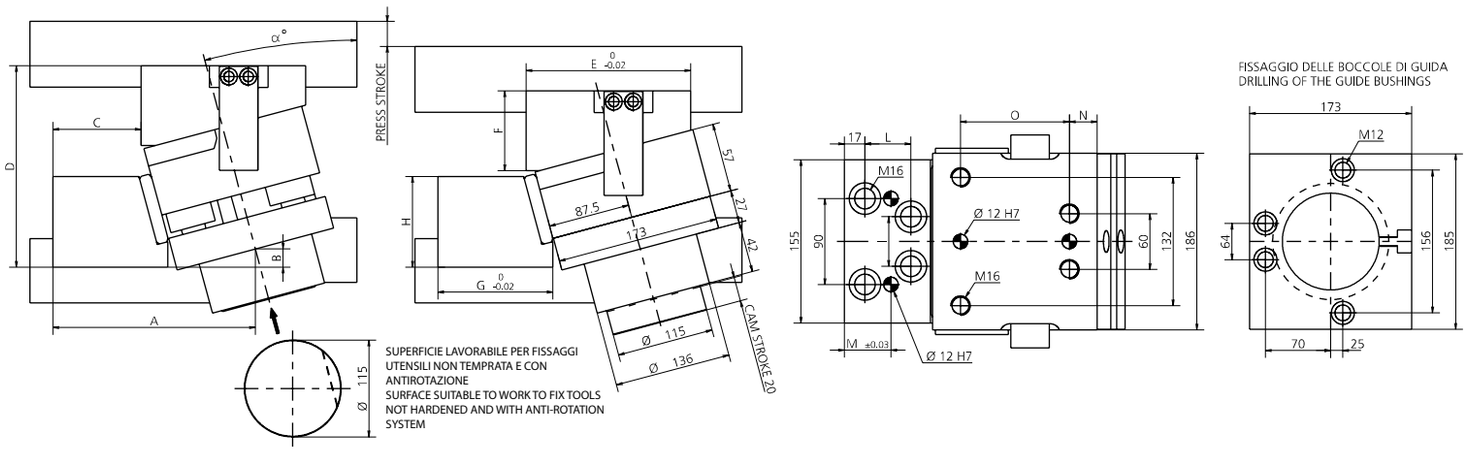
0151.3011 - **CAM SUPER-SMEG3011**

PATENT PENDING

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION **3000 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION **4250 daN**

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



α°	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, PLEASECONTACT 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

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

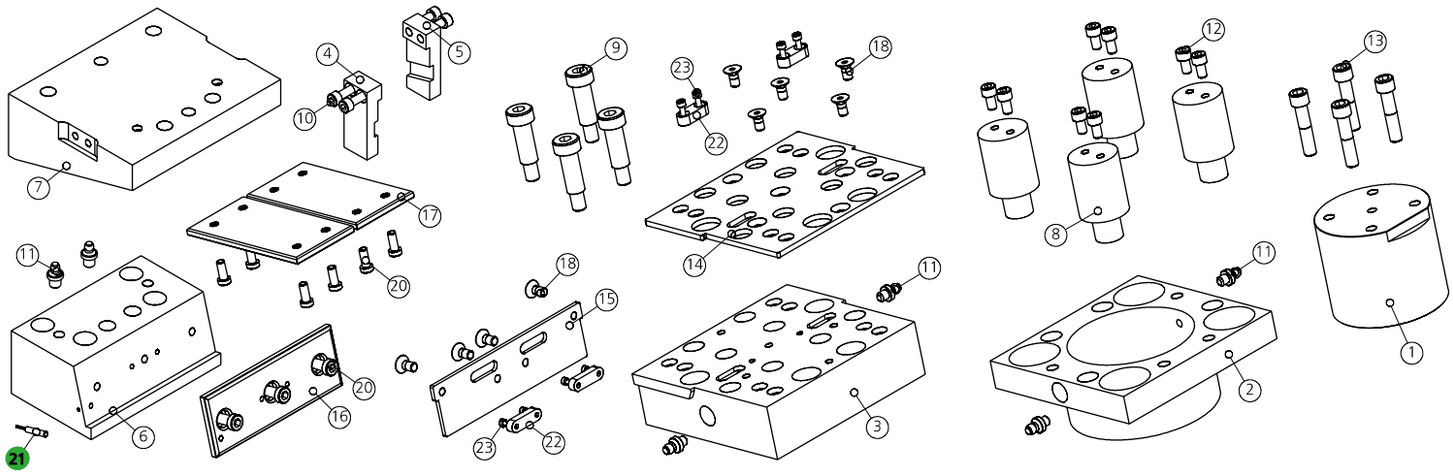
MODEL **0151.3011** INCLINATION **+10°** OPTION CODE **9003.0001**

0151.4815 - **CAM SUPER-SMEG4815**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION **4800 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION **6600 daN**

SFORZO MAX TRANCIO **45000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



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

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

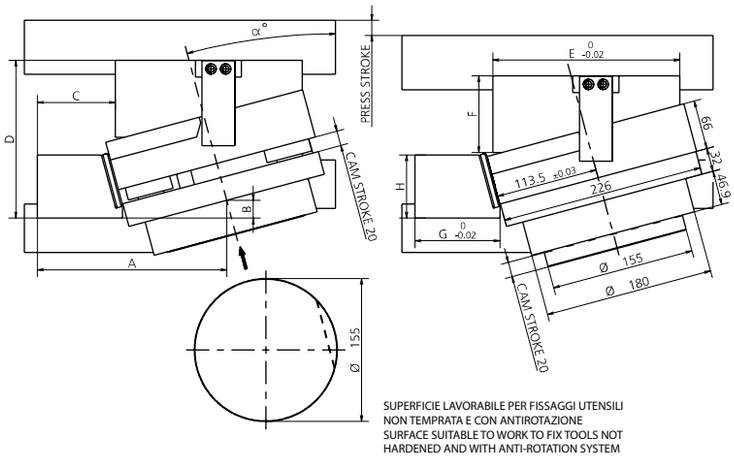
0151.4815 - **CAM SUPER-SMEG4815**

PATENT PENDING

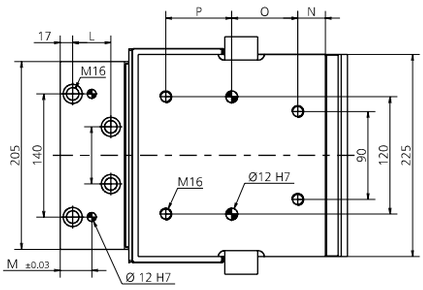
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION **4800 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION **6600 daN**

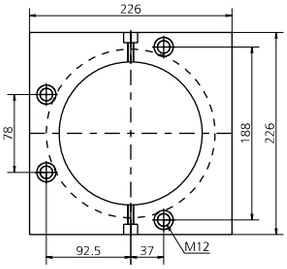
SFORZO MAX TRANCIO **45000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



SUPERFICIE LAVORABILE PER FISSAGGI UTENSILI
NON TEMPRATA E CON ANTIROTAZIONE
SURFACE SUITABLE TO WORK TO FIX TOOLS NOT
HARDENED AND WITH ANTI-ROTATION SYSTEM



FISSAGGIO DELLE BOCCOLE DI GUIDA
DRILLING OF THE GUIDE BUSHINGS



α°	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 TECNICONEWSTARK / * FOR NON-STANDARD INCLINATIONS, PLEASECONTACT 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

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

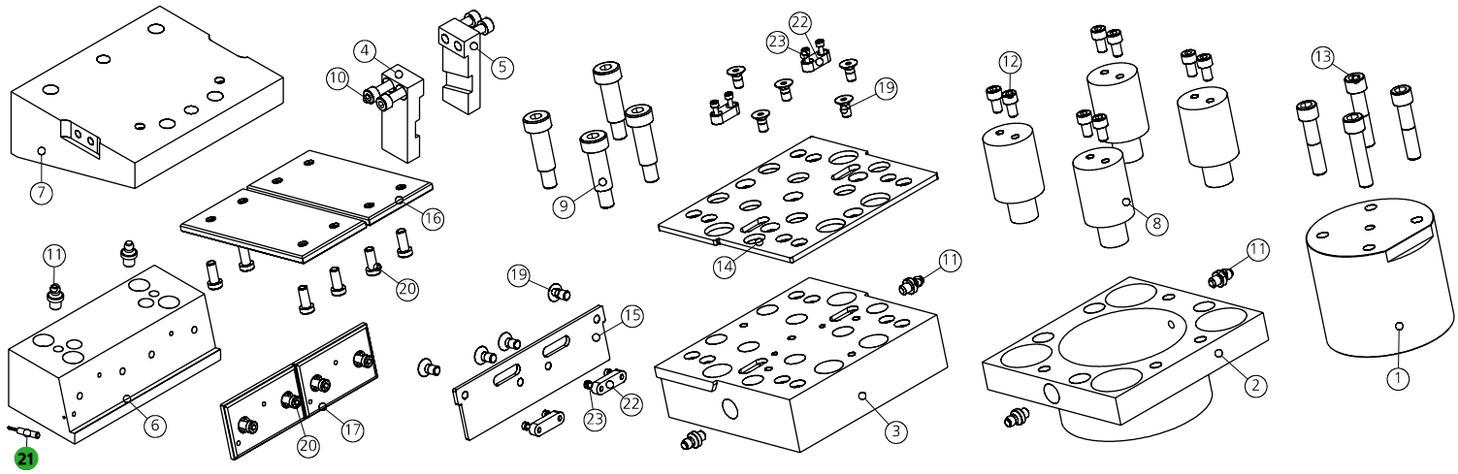
MODEL **0151.4815** INCLINATION **+10°** OPTION CODE **9003.0001**

0151.6019 - **CAM SUPER-SMEG6019**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **6000 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **9400 daN**

SFORZO MAX TRANCIO — **60000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



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

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

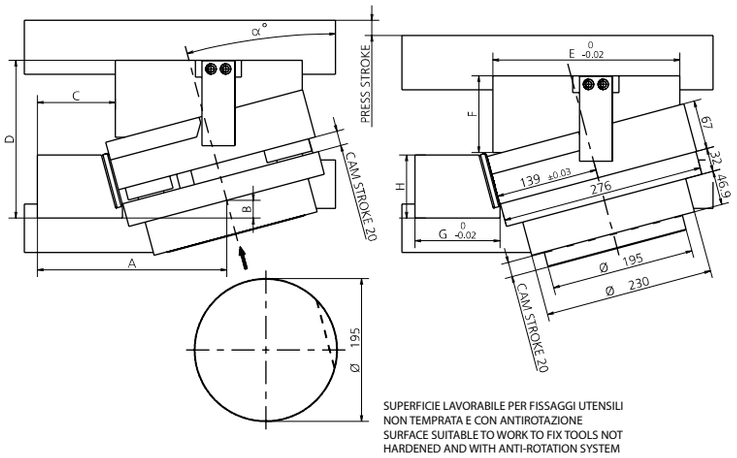
0151.6019 - **CAM SUPER-SMEG6019**

PATENT PENDING

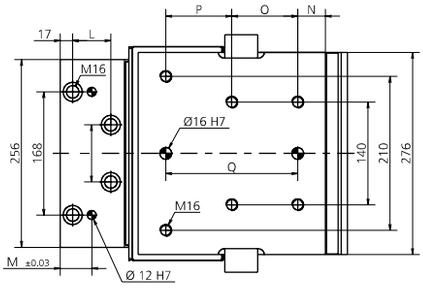
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION **6000 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION **9400 daN**

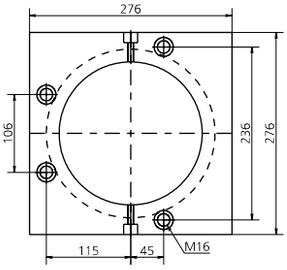
SFORZO MAX TRANCIO **60000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



SUPERFICIE LAVORABILE PER FISSAGGI UTENSILI
NON TEMPRATA E CON ANTIROTAZIONE
SURFACE SUITABLE TO WORK TO FIX TOOLS NOT
HARDENED AND WITH ANTI-ROTATION SYSTEM



FISSAGGIO DELLE BOCCOLE DI GUIDA
DRILLING OF THE GUIDE BUSHINGS



α°	PRESS STROKE	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q
5°	20.1	247.1	1.4	106.25	186.5	265	76	105	96	168	52	43	42.5	90	90	180
10°	20.3	258.35	18.4	110.5	201.65	265	86	116	96	168	52	43	42.5	90	90	180
15°	20.7	258.35	24.4	106.5	215.35	255	105	116	86	168	52	43	37.5	90	90	180
20°	21.3	266.85	38.4	108	235.1	245	125	126	86	168	52	43	32.5	90	90	180
25°	22.05	264.35	53.4	96.5	248.6	246	136	126	86	168	52	43	33	90	90	180
30°	23.1	261.85	68.4	86	270.65	245	156	126	86	168	52	43	32.5	90	90	180
35°	24.4	255.85	83.4	75	290.95	235	175	126	86	78	41	58	27.5	90	90	180
40°	26.1	250.85	90.4	73	306.65	216	195	126	76	78	37	54	33	75	75	150
45°	28.3	243.85	101.4	64	314.85	205	205	126	76	78	27	44	27.5	75	75	150
50°	31.1	236.85	108.4	62	324.65	185	216	126	67	78	27	44	17.5	75	75	150

* 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

021 (9003) SENSORE / SENSOR / SENSOR

21 PATENT PENDING

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

MODEL **0151.6019** INCLINATION **+10°** OPTION CODE **9003.0001**

100% CUSTOMISABLE PRODUCT

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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 tranciatura 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.

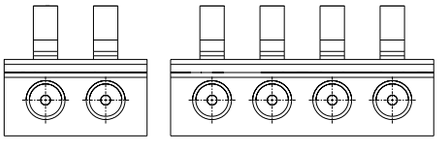
PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE

M

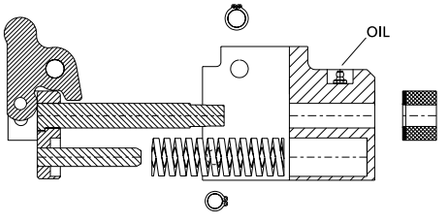
ML

CAM **M/ML**

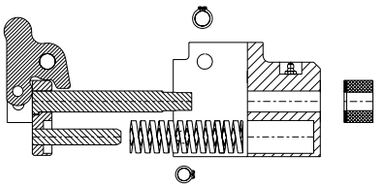
ESEMPI DI APPLICAZIONI SPECIALI / EXAMPLES OF SPECIAL APPLICATIONS / BEISPIELE FÜR SPEZIELLE ANWENDUNGEN
EXEMPLE D'APPLICATIONS SPÉCIALES



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 (MoS2). 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 (MoS2).

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 (MoS2). 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 (MoS2).

DE

1. Seegering und Bolzen entfernen um die Stempelhalteplatte und den Stempel herauszuziehen.
2. Komponenten prüfen.
3. Montage in umgekehrter Reihenfolge unter Verwendung von Molybdändisulfidfett (MoS2) nachschmieren. Die Verwendung dieses Fett wird durch Newstark empfohlen.
4. Auf richtigen Sitz der einzelnen Komponenten achten.

Während des Gebrauches, mit Molybdändisulfidfett (MoS2) nachschmieren.

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 (MoS2). 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 (MoS2).

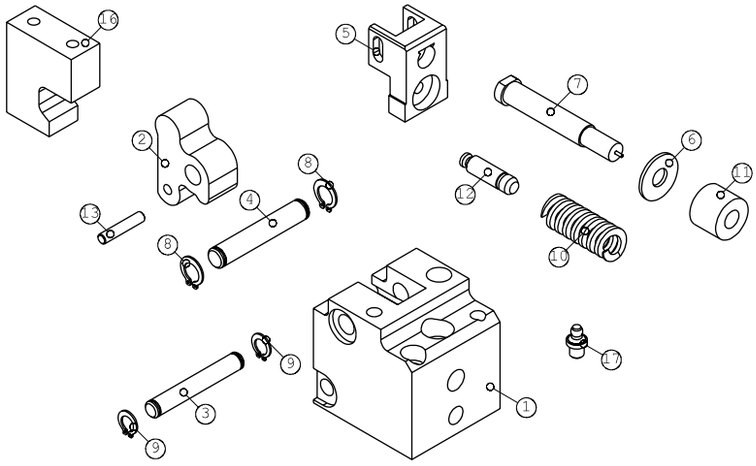
0140.0170 - **CAM M170**

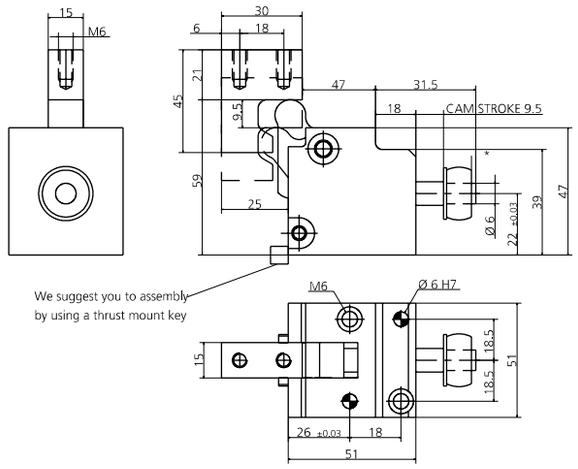
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **25 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **170 daN**

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

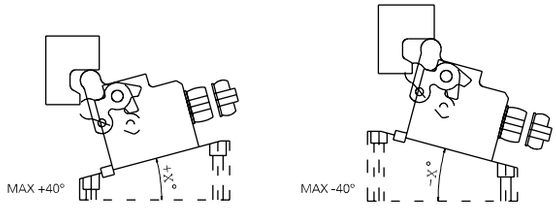
* MAX 30% LUNGHEZZA LIBERA



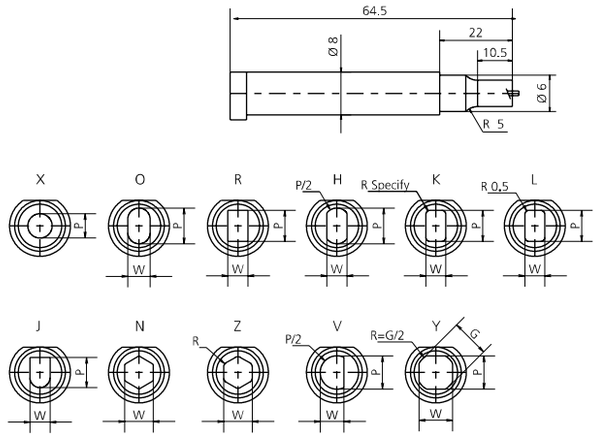


POS.	CODE	DESCRIPTION	Q.TY
001	**8000.0040.0170**	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	**8001.4041.0170.000**	LEVA / LEVER / NOCKE 0	1
002	**8001.4041.0170.620**	LEVA / LEVER / NOCKE +0.01 +20	1*OPTION
002	**8001.4041.0170.640**	LEVA / LEVER / NOCKE +20.01 +40	1*OPTION
002	**8001.4041.0170.720**	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 / STEMPELHALTEPLATTE	1
006	**8006.0020.0240.062.001**	RONDELLA / WASHER / UNTERLEGSCHEIBE	1
007	**09MJBM2.080.064**	MJB_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 8 64.5	1
007	**09MJXM2.080.064**	MJX_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 8 64.5	1*OPTION
007	**09MJOM2.080.064**	MJO_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 8 64.5	1*OPTION
007	**09MJJM2.080.064**	MJJ_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 8 64.5	1*OPTION
007	**09MJHM2.080.064**	MJH_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 8 64.5	1*OPTION
007	**09MJKM2.080.064**	MJK_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 8 64.5	1*OPTION
007	**09MJNM2.080.064**	MJN_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 8 64.5	1*OPTION
007	**09MJLM2.080.064**	MJL_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 8 64.5	1*OPTION
007	**09MJRM2.080.064**	MJR_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 8 64.5	1*OPTION
007	**09MJVM2.080.064**	MJV_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 8 64.5	1*OPTION
007	**09MJYM2.080.064**	MJY_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 8 64.5	1*OPTION
007	**09MJZM2.080.064**	MJZ_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 8 64.5	1*OPTION
008	**9004.1080.001**	SEEGER / SEEGER / SEEGERRING	2
009	**9004.1060.001**	SEEGER / SEEGER / SEEGERRING	2
010	**9009.2000.0320.120**	MOLLA / SPRING / FEDER	1
011	**8060.0620.020.E090.001**	MOLLA IN GOMMA / RUBBER SPRING / ABSTREIFFEDER	1
012	**8005.0265.0150.060.001**	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 **0140.0170** INCLINATION **+10°** OPTION CODE **8001.4041.0170.620**

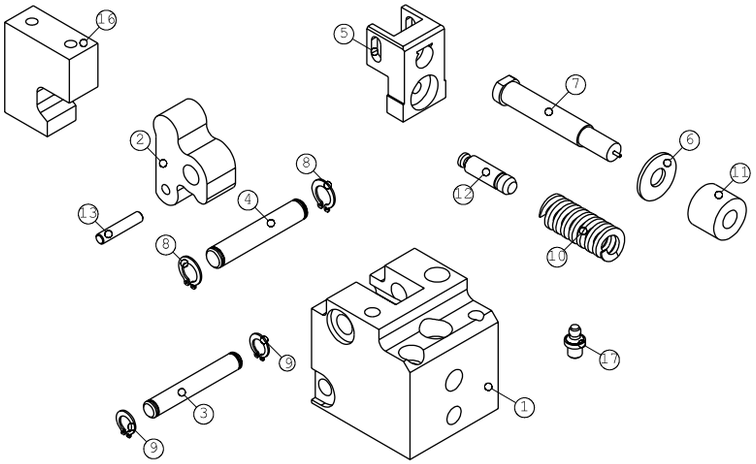
0140.0210 - **CAM M210**

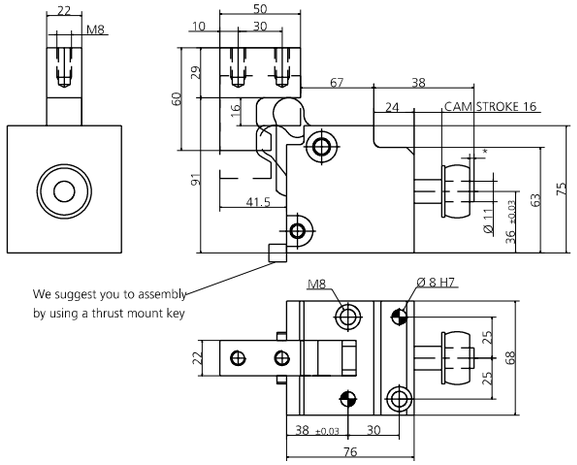
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **40 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **210 daN**

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

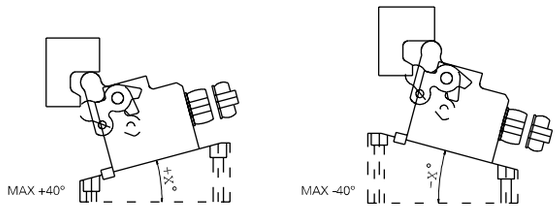
* MAX 30% LUNGHEZZA LIBERA



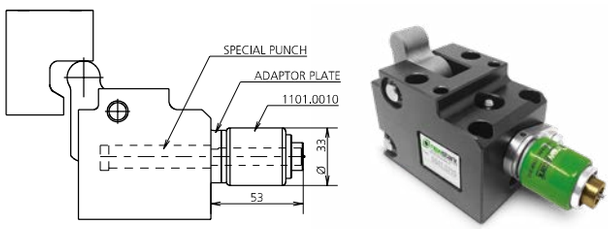


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0040.0210	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8001.4041.0210.000	LEVA / LEVER / NOCKE 0	1
002	8001.4041.0210.620	LEVA / LEVER / NOCKE +0.01 +20	1*OPTION
002	8001.4041.0210.640	LEVA / LEVER / NOCKE +20.01 +40	1*OPTION
002	8001.4041.0210.720	LEVA / LEVER / NOCKE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

002 (8001) LEVA / LEVER / NOCKE

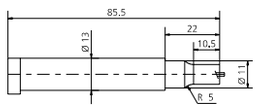


8124.0140.0210 KIT ADATTAMENTO STARK STRIPPER/ STARK-STRIP ADAPTION KIT / STARK-STRIP ADAPTIONSSATZ

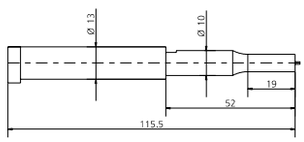


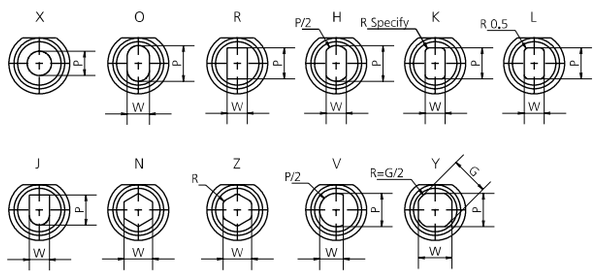
Il kit comprende il punzone, la piastrina di adattamento e le viti di fissaggio.
Lo stark-stripper va ordinato a parte (vedi la sezione del catalogo dedicata)
The kit includes the punch, the adapter plate and the fixing screws.
The stark-stripper must be ordered separately (see the dedicated catalog 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** INCLINATION **+10°** OPTION CODE **8001.4041.0210.620**

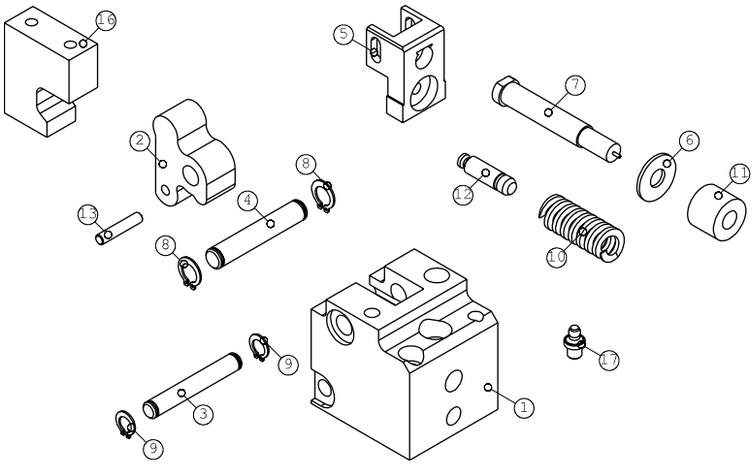
0140.0320 - **CAM M320**

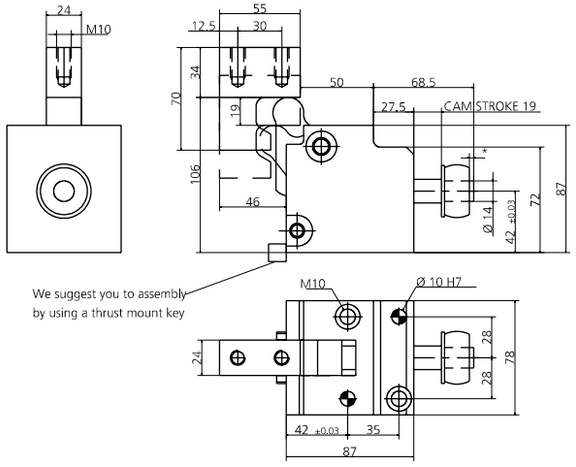
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **70 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **320 daN**

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

* MAX 30% LUNGHEZZA LIBERA





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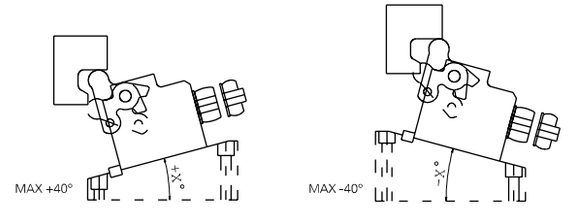
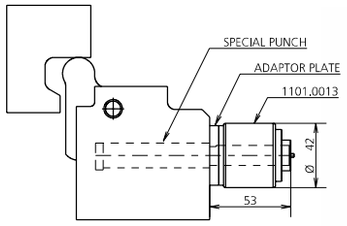
002	**8001.4041.0320.000**	LEVA / LEVER / NOCKE 0	1
002	**8001.4041.0320.620**	LEVA / LEVER / NOCKE +0.01 +20	1*OPTION
002	**8001.4041.0320.640**	LEVA / LEVER / NOCKE +20.01 +40	1*OPTION
002	**8001.4041.0320.720**	LEVA / LEVER / NOCKE -0.01 -20	1*OPTION
002	**8001.4041.0320.740**	LEVA / LEVER / NOCKE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

002 (8001) LEVA / LEVER / NOCKE

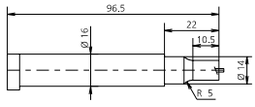


8124.0140.0320 KIT ADATTAMENTO STARK STRIPPER/ STARK-STRIP ADAPTION KIT / STARK-STRIP ADAPTIONSSATZ

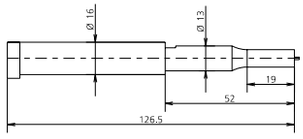


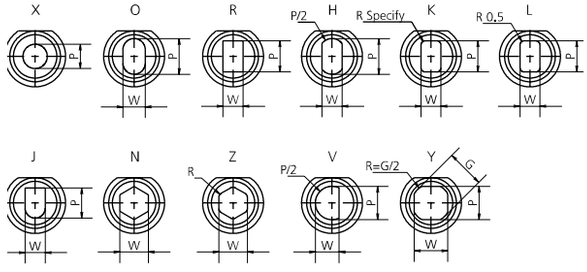
Il kit comprende il punzone, la piastrina di adattamento e le viti di fissaggio.
Lo stark-stripper va ordinato a parte (vedi la sezione del catalogo dedicata)
The kit includes the punch, the adapter plate and the fixing screws.
The stark-stripper must be ordered separately (see the dedicated catalog 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

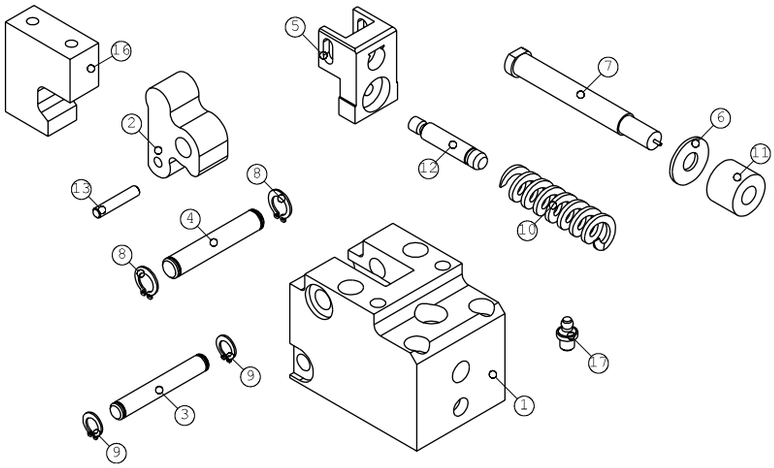
MODEL **0140.0320** INCLINATION **+10°** OPTION CODE **8001.4041.0320.620**

0141.0170 - **CAM ML170**

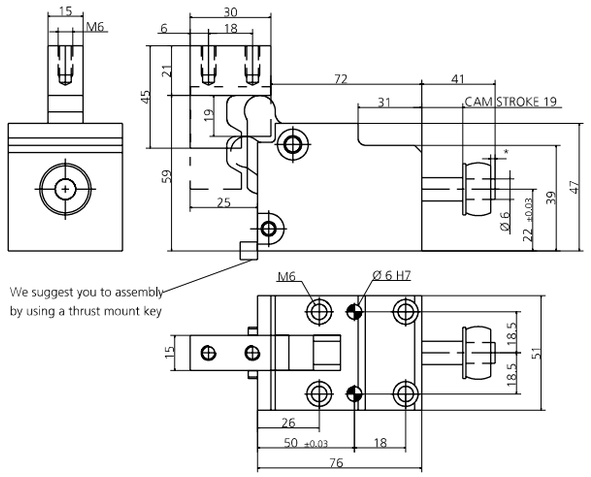
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **25 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **170 daN**

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

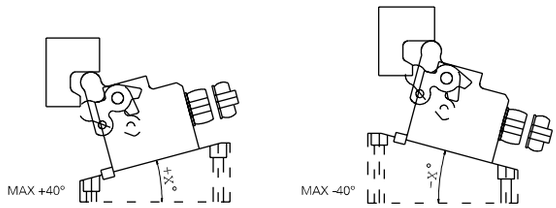


* MAX 30% LUNGHEZZA LIBERA

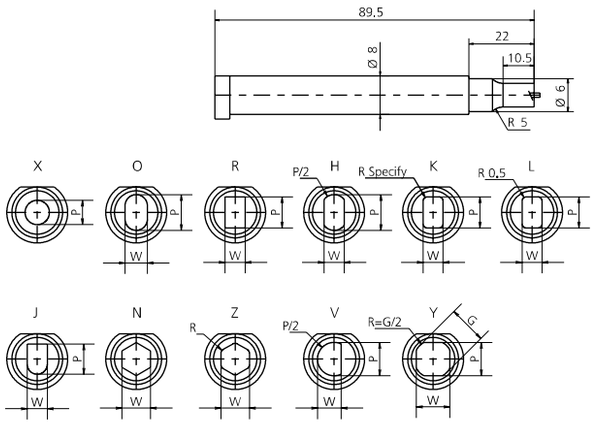


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0041.0170	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8001.4041.0170.000	LEVA / LEVER / NOCKE 0	1
002	8001.4041.0170.620	LEVA / LEVER / NOCKE +0.01 +20	1*OPTION
002	8001.4041.0170.640	LEVA / LEVER / NOCKE +20.01 +40	1*OPTION
002	8001.4041.0170.720	LEVA / LEVER / NOCKE -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 / STEMPELHALTEPLATTE	1
006	8006.0020.0240.062.001	RONDELLA / WASHER / UNTERLEGSCHEIBE	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	09MJ0M2.080.089	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	SEEGER / SEEGER / SEEGERRING	2
009	9004.1060.001	SEEGER / 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

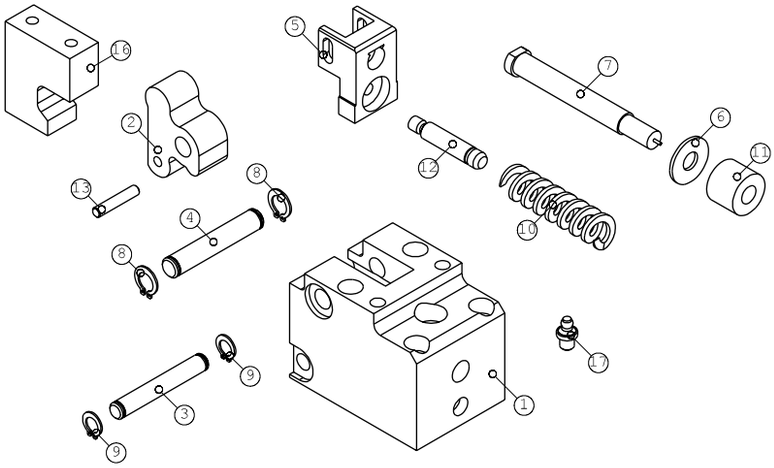
MODEL **0141.0170** INCLINATION **+10°** OPTION CODE **8001.4041.0170.620**

0141.0210 - **CAM ML210**

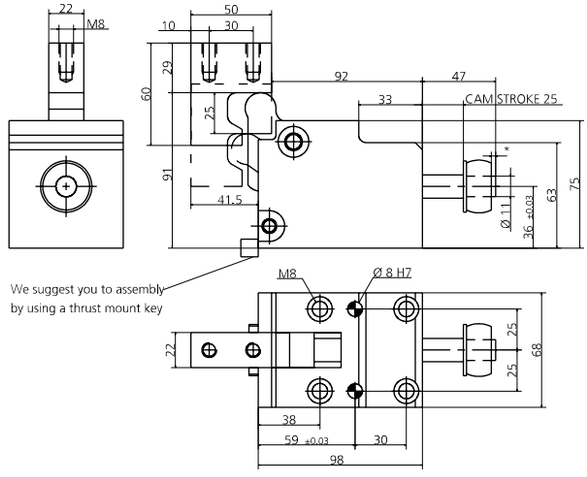
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **40 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **210 daN**

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

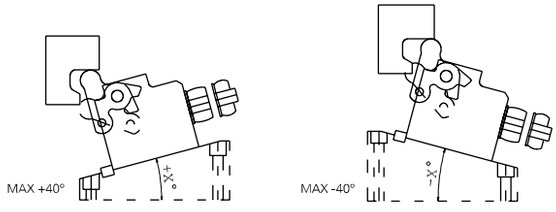


* MAX 30% LUNGHEZZA LIBERA

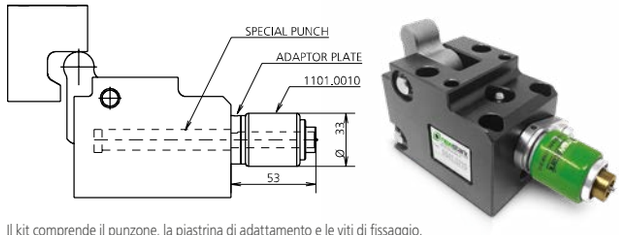


POS.	CODE	DESCRIPTION	Q.TY
001	**8000.0041.0210**	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	**8001.4041.0210.000**	LEVA / LEVER / NOCKE 0	1
002	**8001.4041.0210.620**	LEVA / LEVER / NOCKE +0.01 +20	1*OPTION
002	**8001.4041.0210.640**	LEVA / LEVER / NOCKE +20.01 +40	1*OPTION
002	**8001.4041.0210.720**	LEVA / LEVER / NOCKE-0.01 -20	1*OPTION
002	**8001.4041.0210.730**	LEVA / LEVER / NOCKE -20.01 -30	1*OPTION
002	**8001.4041.0210.740**	LEVA / LEVER / NOCKE -30.01 -40	1*OPTION
003	**8005.0680.0640.100.001**	PERNO / PIN / STIFT	1
004	**8005.0680.0640.120.001**	PERNO / PIN / STIFT	1
005	**8014.4041.0210**	PORTA PUNZONE / GATE PUNCH / STEMPELHALTEPLATTE	1
006	**8006.0020.0280.111.001**	RONDELLA / WASHER / UNTERLEGSCHEIBE	1
007	**09MJBM2.130.107**	MJB_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 13 107.5	1
007	**09MJXM2.130.107**	MJX_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 13 107.5	1*OPTION
007	**09MJOM2.130.107**	MJO_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 13 107.5	1*OPTION
007	**09MJJM2.130.107**	MJJ_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 13 107.5	1*OPTION
007	**09MJHM2.130.107**	MJH_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 13 107.5	1*OPTION
007	**09MJKM2.130.107**	MJK_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 13 107.5	1*OPTION
007	**09MJNM2.130.107**	MJN_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 13 107.5	1*OPTION
007	**09MJLM2.130.107**	MJL_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 13 107.5	1*OPTION
007	**09MJRM2.130.107**	MJR_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 13 107.5	1*OPTION
007	**09MJVM2.130.107**	MJV_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 13 107.5	1*OPTION
007	**09MJYM2.130.107**	MJY_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 13 107.5	1*OPTION
007	**09MJZM2.130.107**	MJZ_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 13 107.5	1*OPTION
008	**9004.1120.001**	SEEGER / SEEGER / SEEGERRING	2
009	**9004.1100.001**	SEEGER / SEEGER / SEEGERRING	2
010	**9009.2000.0760.200**	MOLLA / SPRING / FEDER	1
011	**9010.1125.020.E090.001**	MOLLA IN GOMMA / RUBBER SPRING / ABSTREIFFEDER	1
012	**8005.0535.0400.100.001**	PERNO / PIN / STIFT	1
013	**8005.0310.0310.060.001**	PERNO / PIN / STIFT	1
016	**8003.0600.0500.220.001**	INCUDINE / ANVIL / TREIBER	1*OPTION
017	**9006.002**	INGRASSATORE / NIPPLE / SCHMIERUNG	1

002 (8001) LEVA / LEVER / NOCKE

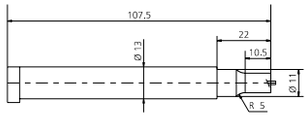


8124.0141.0210 KIT ADATTAMENTO STARK STRIPPER/ STARK-STRIP ADAPTION KIT / STARK-STRIP ADAPTIONSSATZ

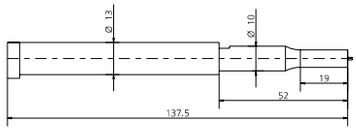


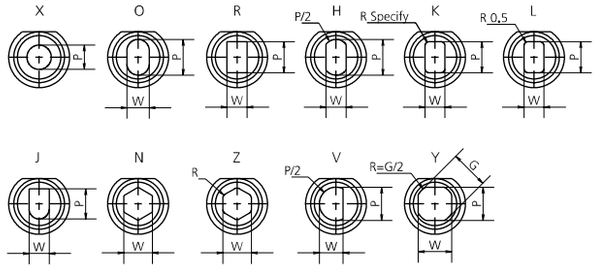
Il kit comprende il punzone, la piastrina di adattamento e le viti di fissaggio.
Lo stark-stripper va ordinato a parte (vedi la sezione del catalogo dedicata)
The kit includes the punch, the adapter plate and the fixing screws.
The stark-stripper must be ordered separately (see the dedicated catalog 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

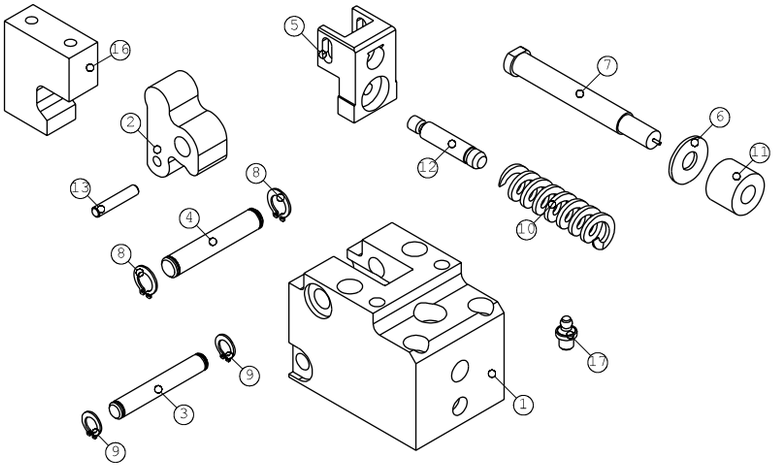
MODEL **0141.0210** INCLINATION **+10°** OPTION CODE **8001.4041.0210.620**

0141.0320 - **CAM ML320**

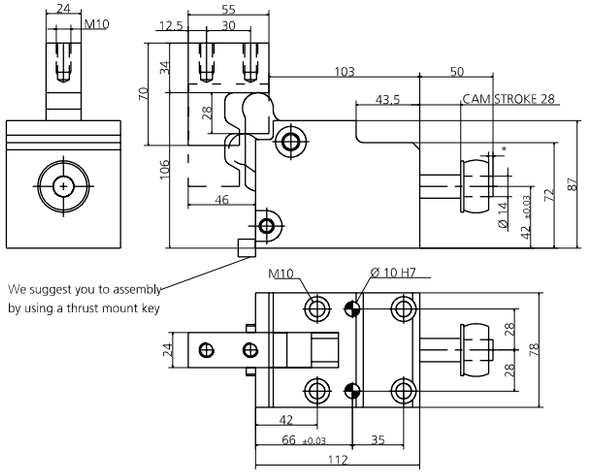
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **70 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **320 daN**

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

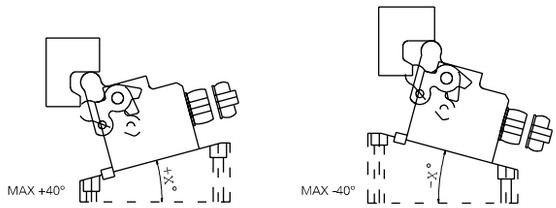


* MAX 30% LUNGHEZZA LIBERA

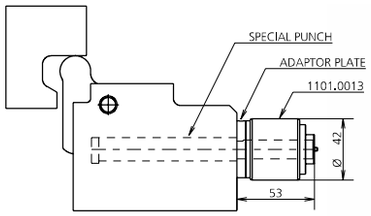


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0041.0320	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8001.4041.0320.000	LEVA / LEVER / NOCKE 0	1
002	8001.4041.0320.620	LEVA / LEVER / NOCKE +0.01 +20	1*OPTION
002	8001.4041.0320.640	LEVA / LEVER / NOCKE +20.01 +40	1*OPTION
002	8001.4041.0320.720	LEVA / LEVER / NOCKE -0.01 -20	1*OPTION
002	8001.4041.0320.740	LEVA / LEVER / NOCKE -20.01 -40	1*OPTION
003	8005.0780.0740.100.001	PERNO / PIN / STIFT	1
004	8005.0780.0740.120.001	PERNO / PIN / STIFT	1
005	8014.4041.0320	PORTA PUNZONE / GATE PUNCH / STEMPELHALTEPLATTE	1
006	8006.0020.0350.141.001	RONDELLA / WASHER / UNTERLEGSCHEIBE	1
007	09MJBM2.160.121	MJB_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 121.5	1
007	09MJXM2.160.121	MJX_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 121.5	1*OPTION
007	09MJOM2.160.121	MJO_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 121.5	1*OPTION
007	09MJJM2.160.121	MJJ_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 121.5	1*OPTION
007	09MJHM2.160.121	MJH_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 121.5	1*OPTION
007	09MJKM2.160.121	MJK_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 121.5	1*OPTION
007	09MJNM2.160.121	MJN_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 121.5	1*OPTION
007	09MJLM2.160.121	MJL_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 121.5	1*OPTION
007	09MJRM2.160.121	MJR_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 121.5	1*OPTION
007	09MJVM2.160.121	MJV_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 121.5	1*OPTION
007	09MJYM2.160.121	MJY_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 121.5	1*OPTION
007	09MJZM2.160.121	MJZ_PUNZONE TC CON ESPULSORE / HEADED PUNCH WITH EJECTOR / SCHNEIDSTEMPEL MIT ABSTOSSER 16 1215	1*OPTION
008	9004.1120.001	SEEGER / SEEGER / SEEGERRING	2
009	9004.1100.001	SEEGER / SEEGER / SEEGERRING	2
010	9009.2000.0890.250	MOLLA / SPRING / FEDER	1
011	8060.1432.020.E090.001	MOLLA IN GOMMA / RUBBER SPRING / ABSTREIFFEDER	1
012	8005.0665.0500.120.001	PERNO / PIN / STIFT	1
013	8005.0350.0350.080.001	PERNO / PIN / STIFT	1
016	8003.0700.0550.240.001	INCUDINE / ANVIL / TREIBER	1*OPTION
017	9006.002	INGRASSATORE / NIPPLE / SCHMIERUNG	1

002 (8001) LEVA / LEVER / NOCKE

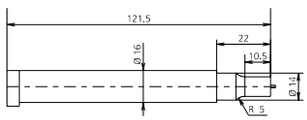


8124.0141.0320 KIT ADATTAMENTO STARK STRIPPER/ STARK-STRIP ADAPTION KIT / STARK-STRIP ADAPTIONSSATZ

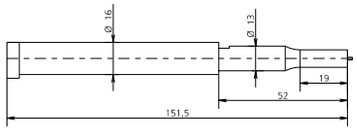


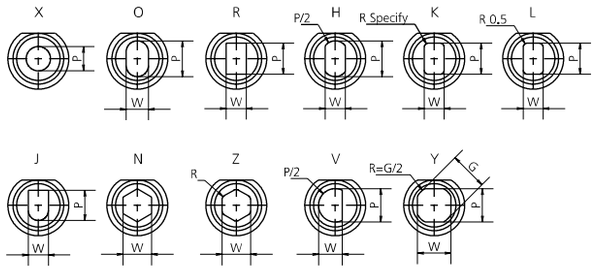
Il kit comprende il punzone, la piastrina di adattamento e le viti di fissaggio.
Lo stark-stripper va ordinato a parte (vedi la sezione del catalogo dedicata)
The kit includes the punch, the adapter plate and the fixing screws.
The stark-stripper must be ordered separately (see the dedicated catalog 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**

100% CUSTOMISABLE PRODUCT

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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 tranciatura, 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.

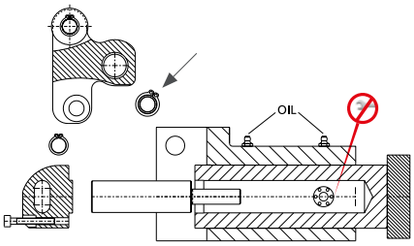
DE Mechanische Stanzheit mit der Kraft bis 10˙000 daN und einem Rücklauf, der durch eine Stickstofffeder sichergestellt wird. An die Stahlplatte kann Zubehör je nach Bedarf angebracht werden. Diese Stanzeinheit hat eine feste und kompakte Bauweise, und vorfügt über ein Anti-Rotation System für den Werkzeugträger. 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 DE FORCE

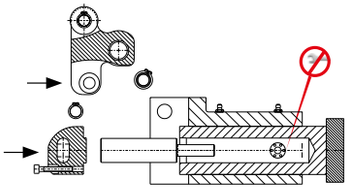
CAM **MA**

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 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 (MoS2). 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 (MoS2).

EN Attention: Undertake reassemly 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 (MoS2). 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 (MoS2).

DE Achtung: Wartungs-und Demontagearbeiten 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 (MoS2). Die Verwendung dieses Fett wird durch Newstark empfohlen.
4. Auf richtigen Sitz der einzelnen Komponenten achten.

Während des Gebrauches, mit Molybdändisulfidfett (MoS2) 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 (MoS2). Newstark recommande l'utilisation de cette graisse.
4. S'assurer que les différents éléments sont correctement repositionnés.

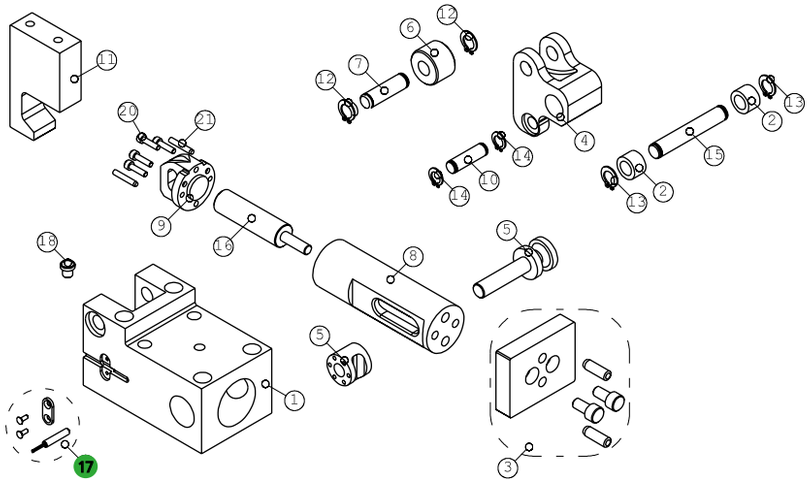
Lubrifier avec de la graisse au bisulfure de molybdène (MoS2).

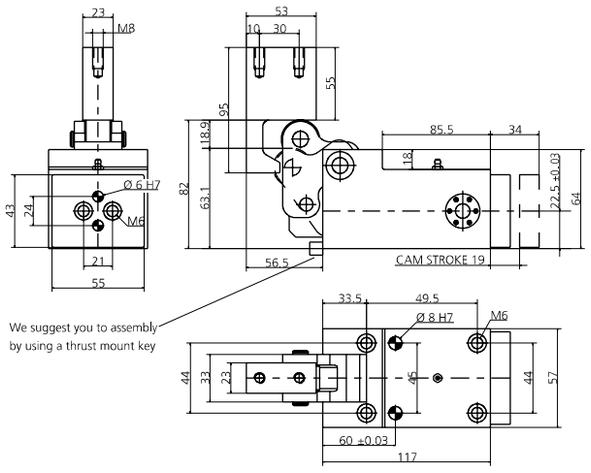
0142.0100 - **CAM MA100**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **100 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **135 daN**

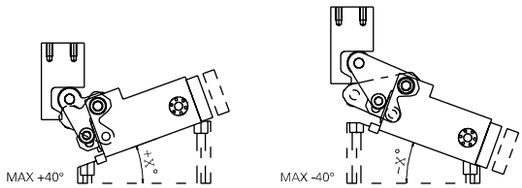
SFORZO MAX TRANCIO — **2500 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE





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

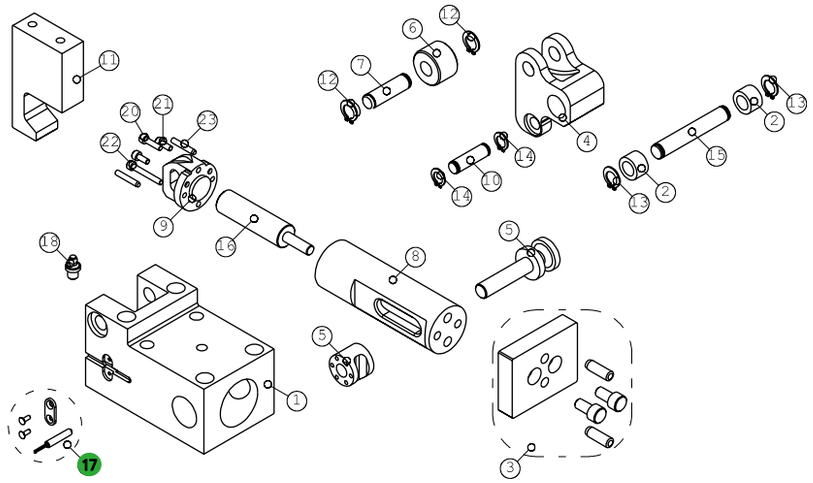
MODEL **0142.0100** INCLINATION **+10°** OPTION CODE **8001.0042.0100.620**

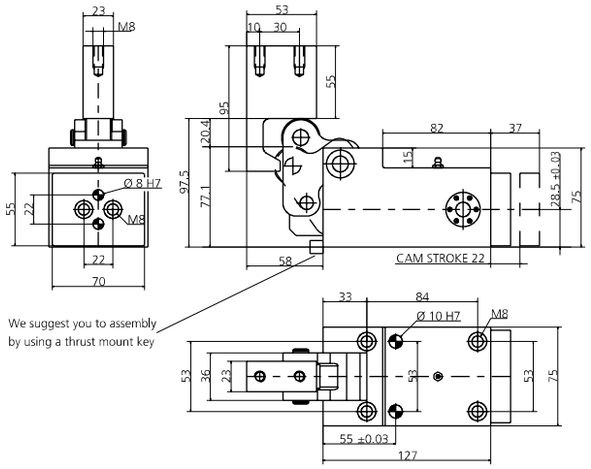
0142.0150 - **CAM MA150**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **150 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **180 daN**

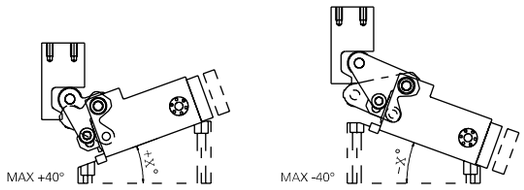
SFORZO MAX TRANCIO — **3000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE





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

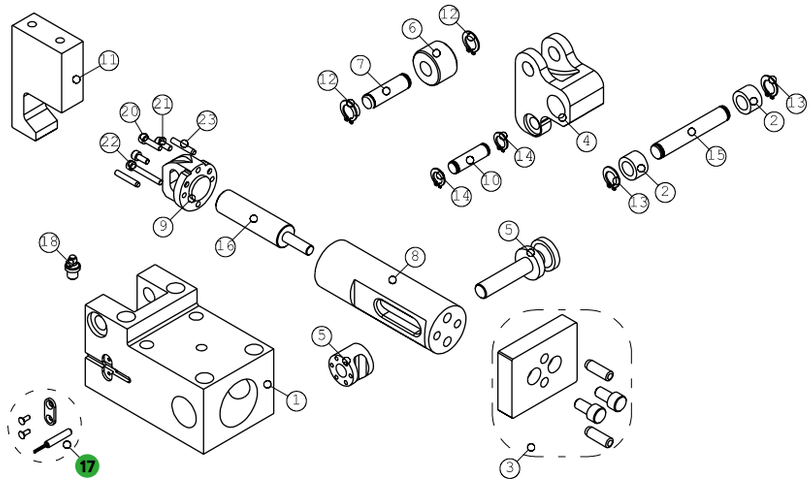
MODEL **0142.0150** INCLINATION **+10°** OPTION CODE **8001.0042.0150.620**

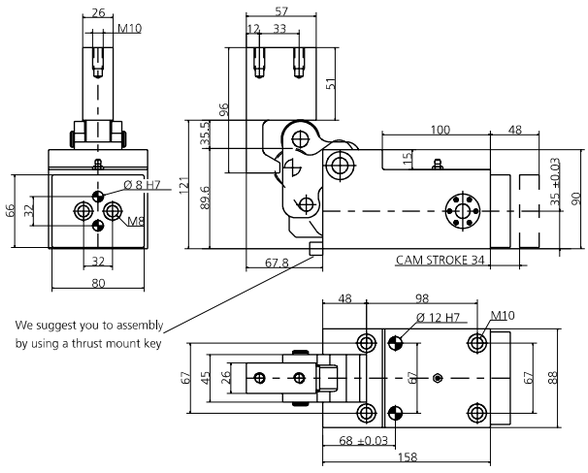
0142.0240 - **CAM MA240**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **240 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **270 daN**

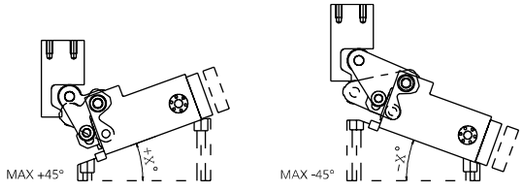
SFORZO MAX TRANCIO — **5000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE





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

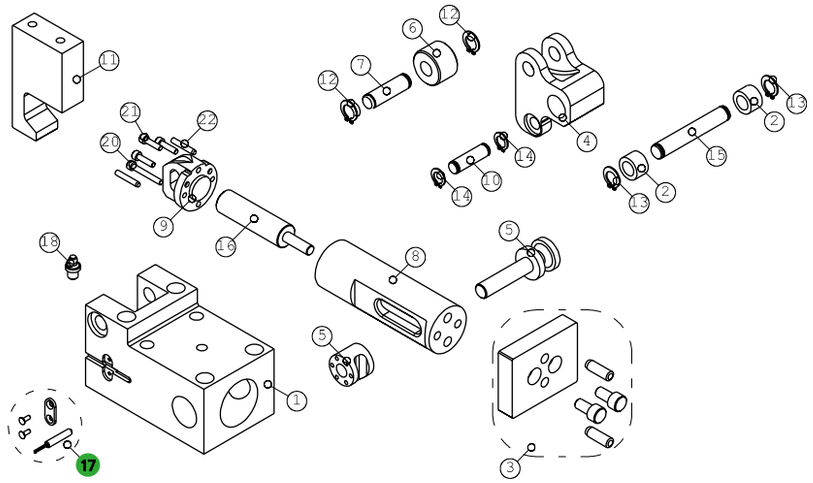
MODEL **0142.0240** INCLINATION **+10°** OPTION CODE **8001.0042.0240.610**

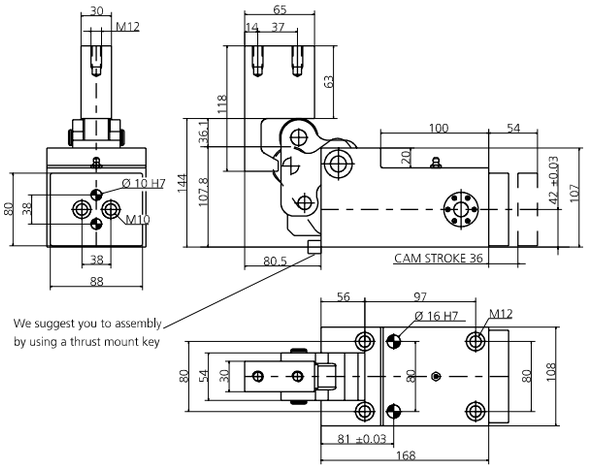
0142.0600 - **CAM MA600**

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

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

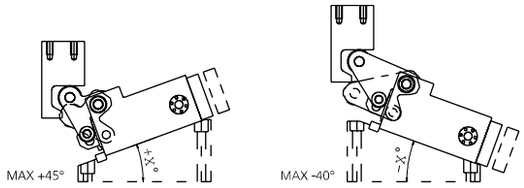
SFORZO MAX TRANCIO
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE — **7000 daN**





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

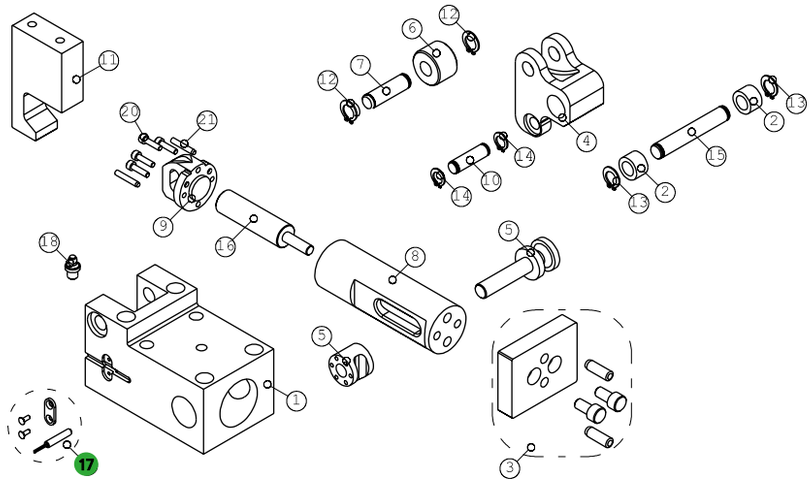
MODEL **0142.0600** INCLINATION **+10°** OPTION CODE **8001.0042.0600.615**

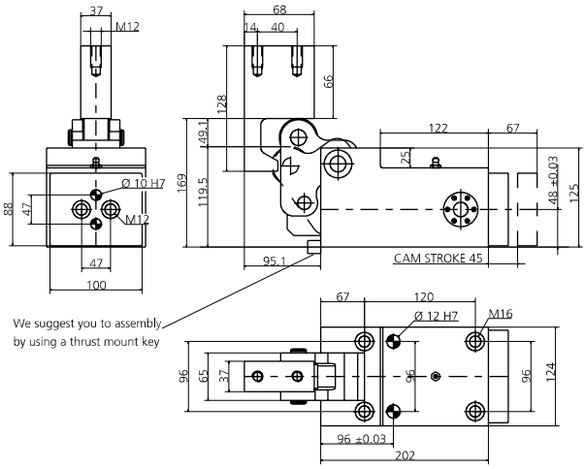
0142.0850 - **CAM MA850**

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

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

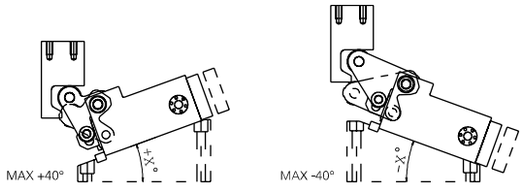
SFORZO MAX TRANCIO — **10000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE





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

100% CUSTOMISABLE PRODUCT

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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 tranciatura, 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.

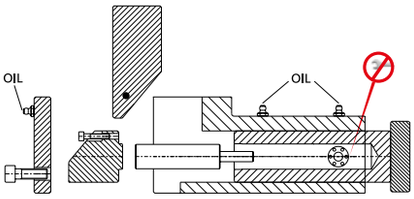
DE Mechanische Stanzeinheit, Kraft bis 19˙000 daN mit einem Rücklauf der durch eine Stickstofffeder sichergestellt wird. An die Stahlplatte kann Zubehör je nach Bedarf angebracht werden. Bei diesem Modell, wird die Bewegung durch Keile umgesetzt. Des weiteren Besitzt diese Einheit ein Anti- Rotationssystem, 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

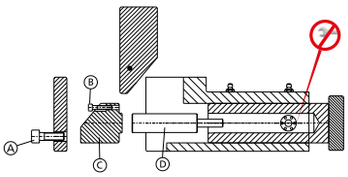
CAM **MAS**

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 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 (MoS2). 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 (MoS2).

DE Achtung: Wartungs-und Demontagearbeiten 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 (MoS2). Die Verwendung dieses Fett wird durch Newstark empfohlen.
5. Auf richtigen Sitz der einzelnen Komponenten achten.

Während des Gebrauches, mit Molybdändisulfidfett (MoS2) nachschmieren.

EN Attention: Undertake reassemly 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 (MoS2). 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 (MoS2).

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 (MoS2). Newstark recommande l'utilisation de cette graisse.
5. S'assurer que les différents éléments sont correctement repositionnés.

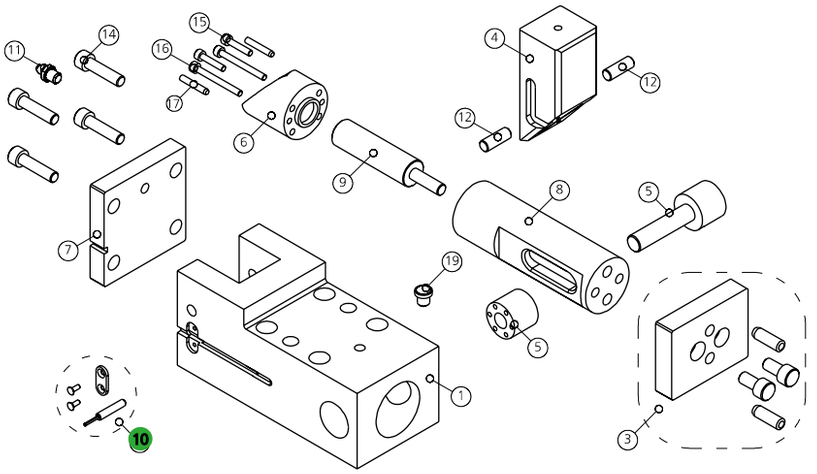
Lubrifier avec de la graisse au bisulfure de molybdène (MoS2).

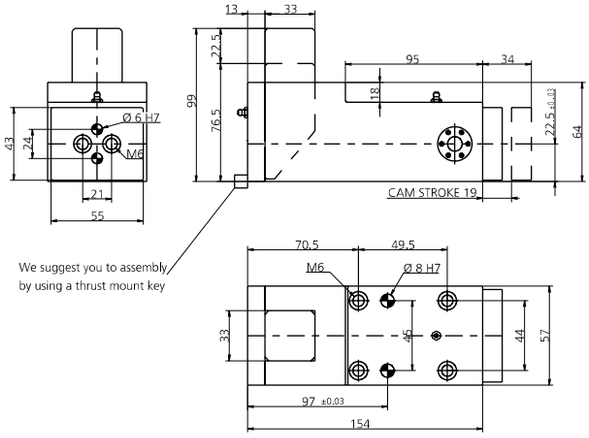
0144.0100 - **CAM MAS100**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **100 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **135 daN**

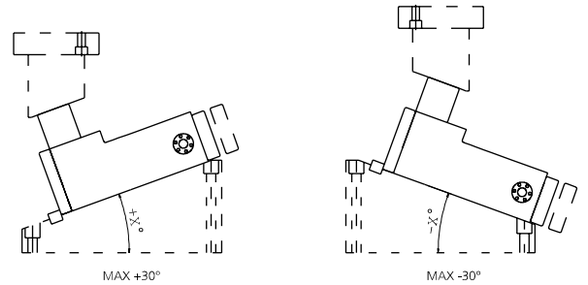
SFORZO MAX TRANCIO
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE — **3000 daN**





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

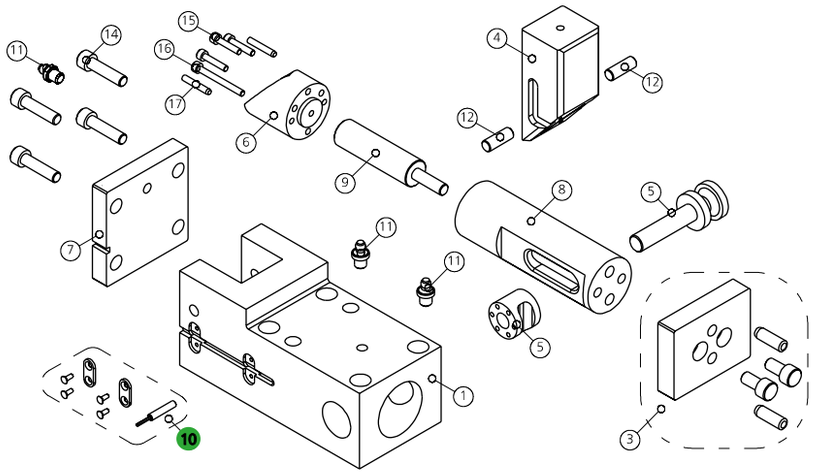
MODEL **0144.0100** OPTION CODE **8014.4244.0100**

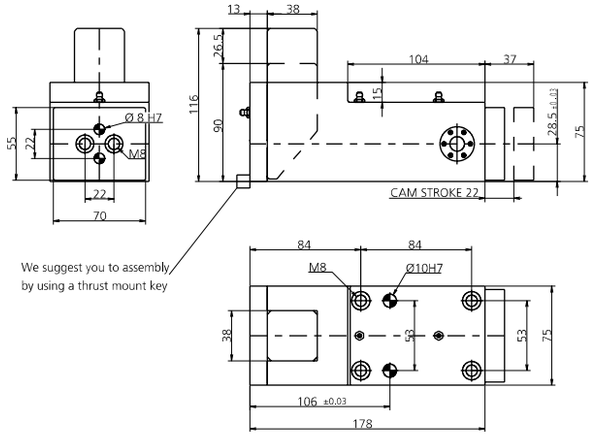
0144.0150 - **CAM MAS150**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **150 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **180 daN**

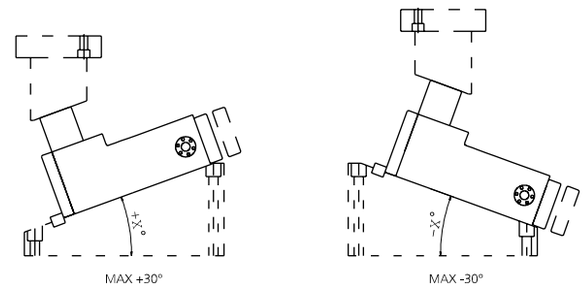
SFORZO MAX TRANCIO
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE — **5000 daN**





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

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



MAX +30° MAX -30°

010 (8107) SENSORE / SENSOR / SENSOR

10 PATENT PENDING

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

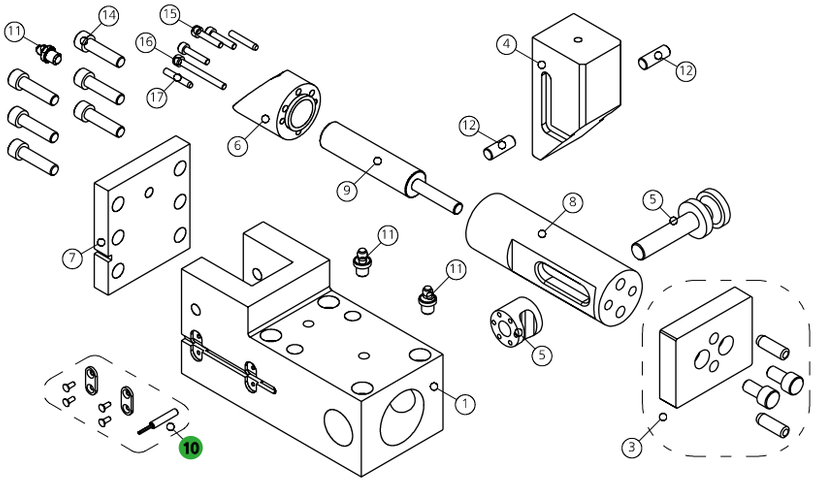
MODEL **0144.0150** OPTION CODE **8014.4244.0150**

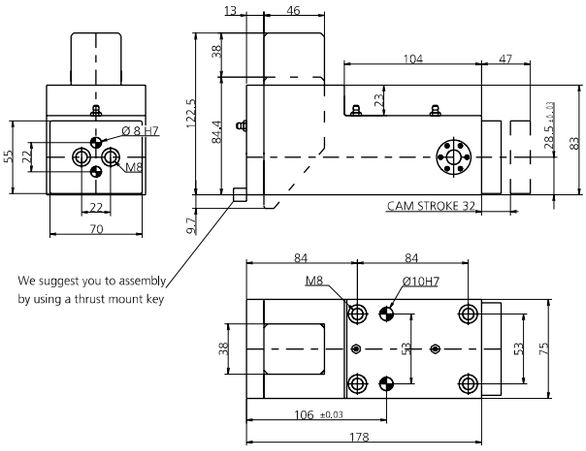
0144.S150 - **CAM MAS150S**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **150 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **180 daN**

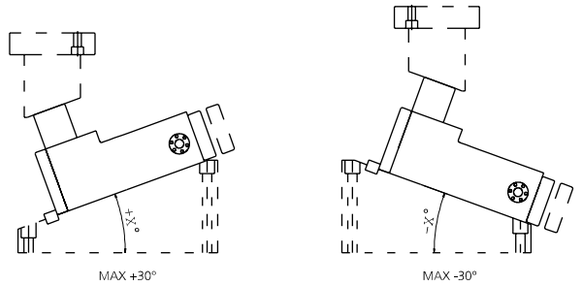
SFORZO MAX TRANCIO
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE — **5000 daN**





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

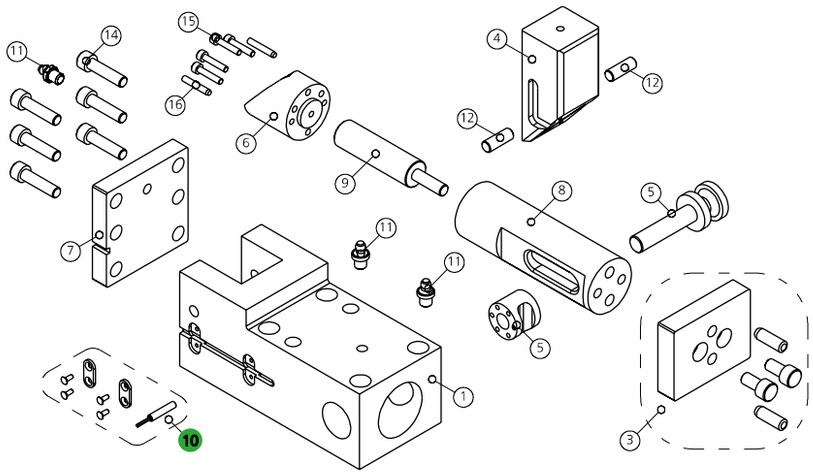
MODEL **0144.S150** OPTION CODE **8014.4244.0150**

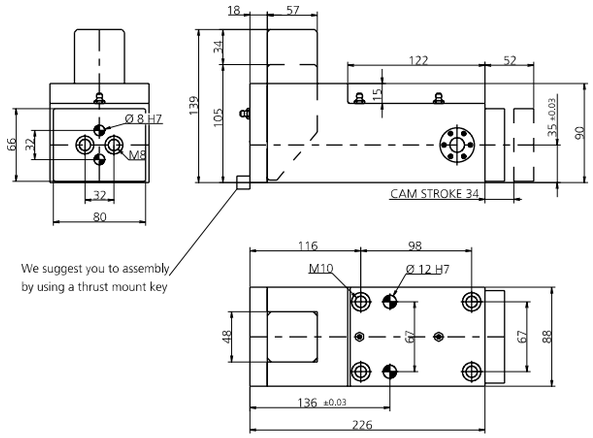
0144.0240 - **CAM MAS240**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **240 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **270 daN**

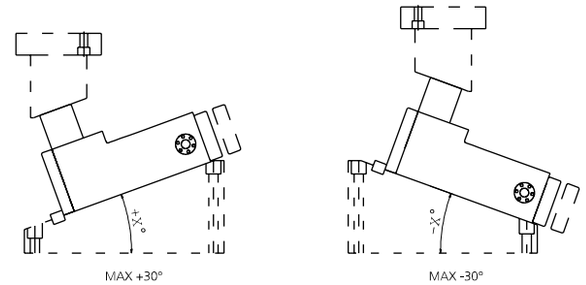
SFORZO MAX TRANCIO — **8000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE





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

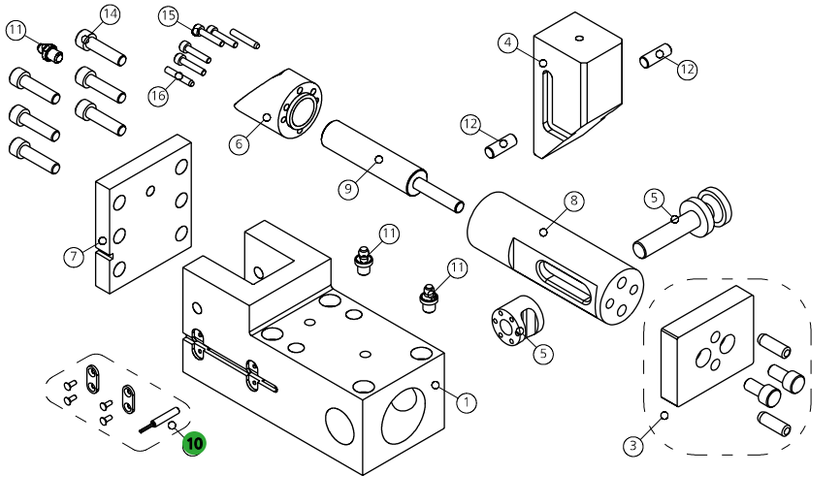
MODEL **0144.0240** OPTION CODE **8014.4244.0240**

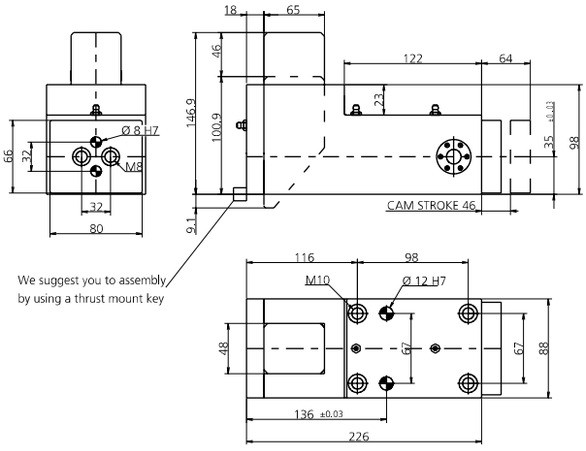
0144.S240 - **CAM MAS240S**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **240 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **270 daN**

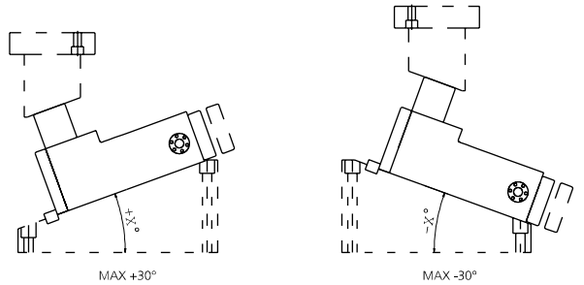
SFORZO MAX TRANCIO — **8000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE





POS.	CODE	DESCRIPTION	Q.TY
001	**8000.0044.S240**	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
003	**8014.4244.0240**	KIT PORTA PUNZONE / KIT PUNCH HOLDER / KIT TRÄGERPLATTE	1*OPTION
004	**8008.0044.S240**	CUNEO / WEDGE / DRUCKKEIL	1
005	**8017.4244.0240**	PERNO DI GUIDA / GUIDE PIN / FÜHRUNGSSTIFTE	1
006	**8007.0044.S240**	SLITTA / SLIDER / LAGERKEIL	1
007	**8002.0044.S240**	FLANGIA POSTERIORE / REAR FLANGE	1
008	**8018.1524.1344.500.002**	PERNO CENTRALE / CENTRAL PIN / HAUPTSTIFT	1
009	**9000.0050.0025.001**	CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER	1
010	**8107.0144.S240.001**	KIT SENSORE DI SICUREZZA / SECURITY SENSOR KIT / KIT SENSOR FÜR SICHERHEIT	1*OPTION
011	**9006.002**	INGRASSATORE / NIPPLE / SCHMIERUNG	3
012	**8005.0235.0235.100.001**	PERNO / PIN / STIFT	2
014	**9007.10.035.129.1.4762**	VITE / SCREW / SCHRAUBE M10X35	6
015	**9007.05.020.129.1.4762**	VITE / SCREW / SCHRAUBE M5X20	4
016	**9028.050.016.8735**	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

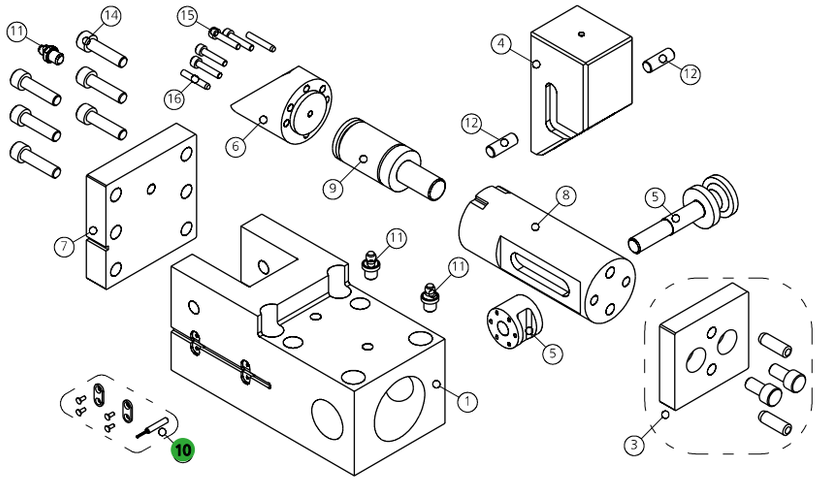
MODEL **0144.S240** OPTION CODE **8014.4244.0240**

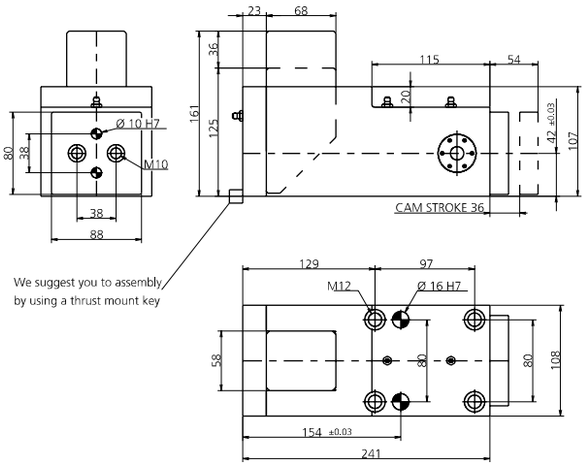
0144.0600 - **CAM MAS600**

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

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

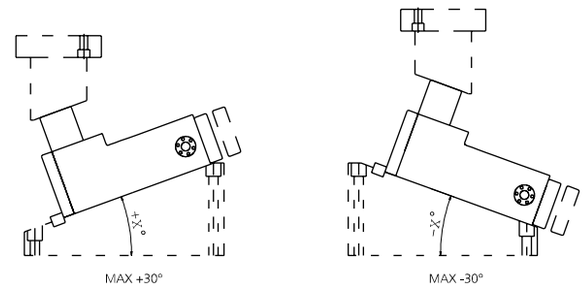
SFORZO MAX TRANCIO — **13000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE





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 / FÜHRUNGSSTIFTE	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



MAX +30° MAX -30°

010 (8107) SENSORE / SENSOR / SENSOR

10 PATENT PENDING

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

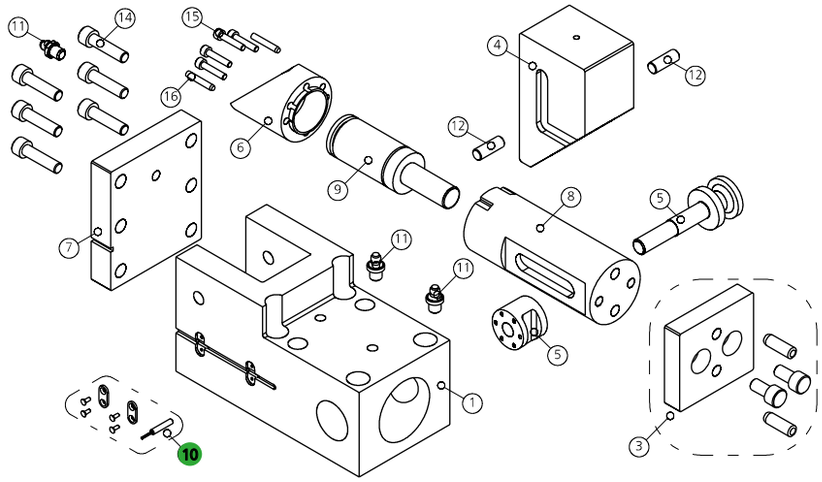
MODEL **0144.0600** OPTION CODE **8014.4244.0600**

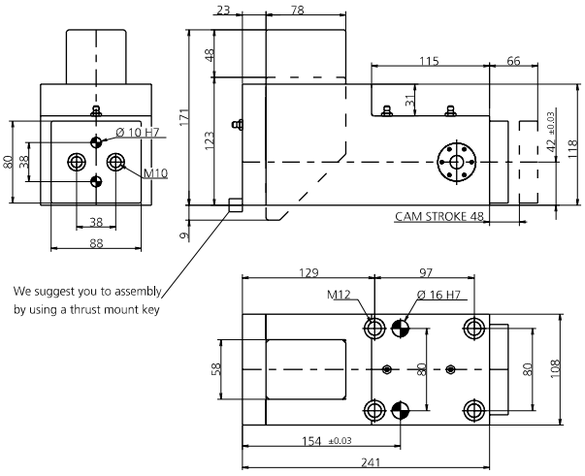
0144.S600 - **CAM MAS600S**

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

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

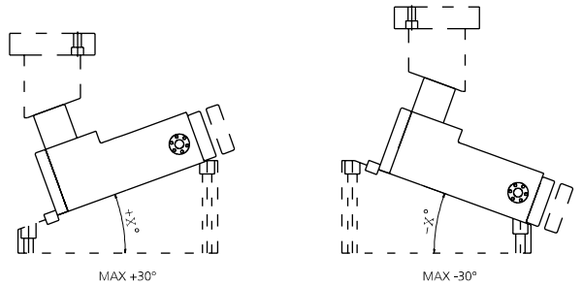
SFORZO MAX TRANCIO — **13000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE





POS.	CODE	DESCRIPTION	Q.TY
001	**8000.0044.S600**	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
003	**8014.4244.0600**	KIT PORTA PUNZONE / KIT PUNCH HOLDER / KIT TRÄGERPLATTE	1*OPTION
004	**8008.0044.S600**	CUNEO / WEDGE / DRUCKKEIL	1
005	**8017.4244.0600**	PERNO DI GUIDA / GUIDE PIN / FÜHRUNGSSTIFTE	1
006	**8007.0044.S600**	SLITTA / SLIDER / LAGERKEIL	1
007	**8002.0044.S600**	FLANGIA POSTERIORE / REAR FLANGE	1
008	**8018.1500.1275.600.002**	PERNO CENTRALE / CENTRAL PIN / HAUPTSTIFT	1
009	**9000.0050.0038.001**	CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER	1
010	**8107.0144.S600.001**	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

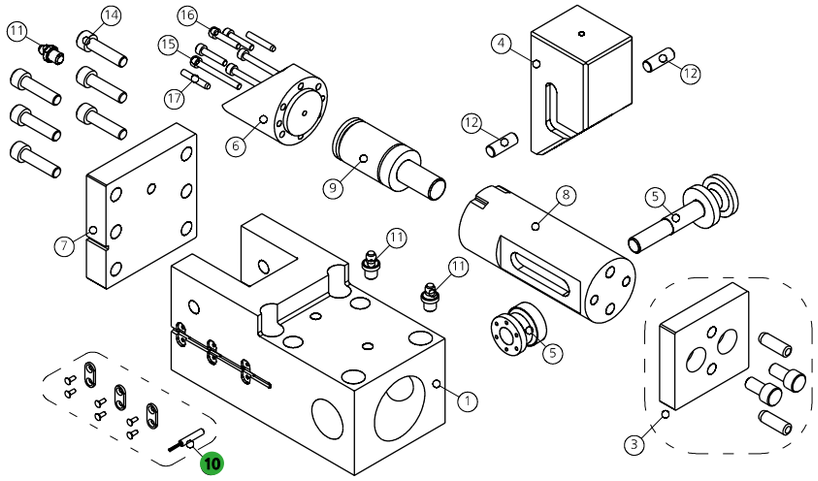
MODEL **0144.S600** OPTION CODE **8014.4244.0600**

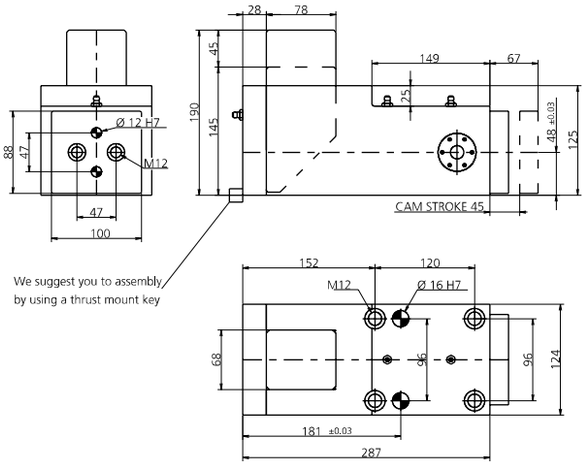
0144.0850 - **CAM MAS850**

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

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

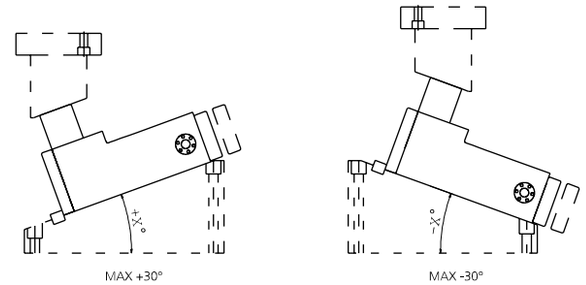
SFORZO MAX TRANCIO — **19000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE





POS.	CODE	DESCRIPTION	Q.TY
001	8000.0044.0850	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
003	8014.4244.0850	KIT PORTA PUNZONE / KIT PUNCH HOLDER / KIT TRÄGERPLATTE	1*OPTION
004	8008.0044.0850	CUNEO / WEDGE / DRUCKKEIL	1
005	8017.4244.0850	PERNO DI GUIDA / GUIDE PIN / FÜHRUNGSSTIFTE	1
006	8007.0044.0850	SLITTA / SLIDER / LAGERKEIL	1
007	8002.0044.0850	FLANGIA POSTERIORE / REAR FLANGE	1
008	8018.1845.1575.700.001	PERNO CENTRALE / CENTRAL PIN / HAUPTSTIFT	1
009	9000.0050.0045.001	CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER	1
010	8107.0144.0850.001	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	9007.12.050.129.1.4762	VITE / SCREW / SCHRAUBE M12X50	6
015	9007.06.070.129.1.4762	VITE / SCREW / SCHRAUBE M6X70	3
016	9007.06.030.129.1.4762	VITE / SCREW / SCHRAUBE M6X30	3
017	9028.060.020.8735	SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D6X20	2

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



MAX +30° MAX -30°

010 (8107) SENSORE / SENSOR / SENSOR

10 PATENT PENDING

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

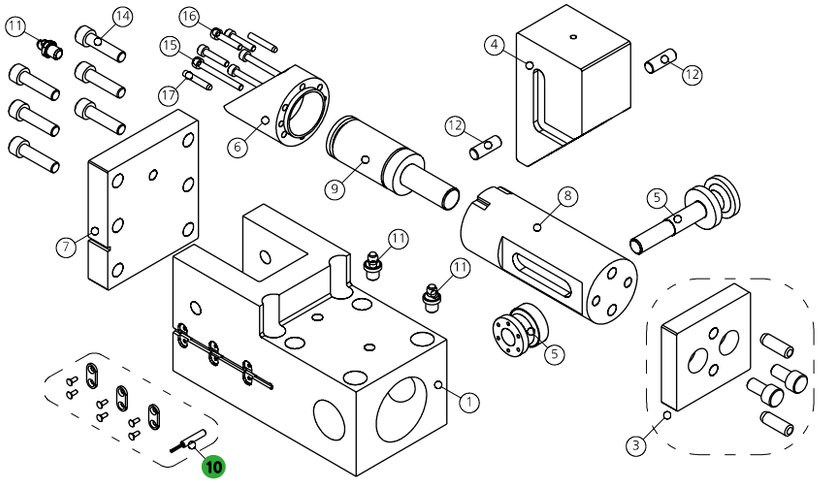
MODEL **0144.0850** OPTION CODE **8014.4244.0850**

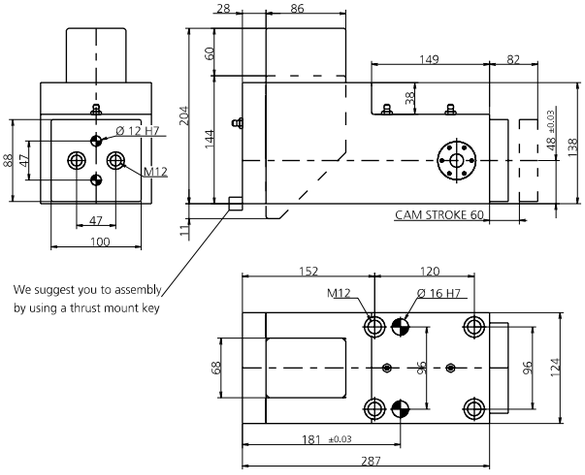
0144.S850 - **CAM MAS850S**

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

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **1440 daN**

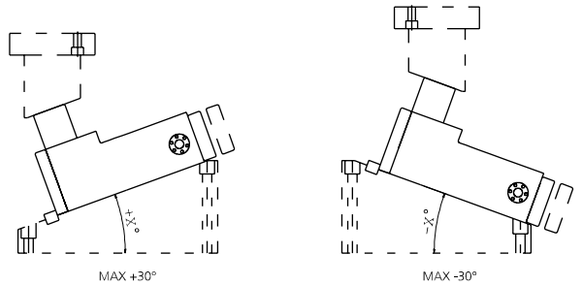
SFORZO MAX TRANCIO — **19000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE





POS.	CODE	DESCRIPTION	Q.TY
001	**8000.0044.S850**	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
003	**8014.4244.0850**	KIT PORTA PUNZONE / KIT PUNCH HOLDER / KIT TRÄGERPLATTE	1*OPTION
004	**8008.0044.S850**	CUNEO / WEDGE / DRUCKKEIL	1
005	**8017.4244.0850**	PERNO DI GUIDA / GUIDE PIN / FÜHRUNGSSTIFTE	1
006	**8007.0044.S850**	SLITTA / SLIDER / LAGERKEIL	1
007	**8002.0044.S850**	FLANGIA POSTERIORE / REAR FLANGE	1
008	**8018.1845.1575.700.002**	PERNO CENTRALE / CENTRAL PIN / HAUPTSTIFT	1
009	**9000.0063.0045.001**	CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER	1
010	**8107.0144.S850.001**	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	**9007.12.050.129.1.4762**	VITE / SCREW / SCHRAUBE M12X50	6
015	**9007.06.070.129.1.4762**	VITE / SCREW / SCHRAUBE M6X70	3
016	**9007.06.030.129.1.4762**	VITE / SCREW / SCHRAUBE M6X30	3
017	**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.S850** OPTION CODE **8014.4244.0850**

CAM MAS

100% CUSTOMISABLE PRODUCT

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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.

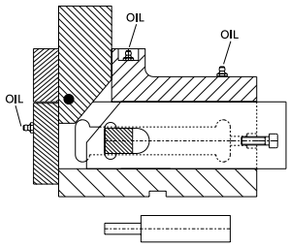
DE Mechanische Stanzeinheit Kraft bis 20˙000 daN mit einem Rücklauf der durch Stickstofffedern sichergestellt wird. An der Schubstange kann Zubehör je nach Bedarf angebracht werden. Bei diesem Modell, wird die Bewegung durch Keile umgesetzt. Durch die Art der Schubstange wird die Rotationsbewegung so 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

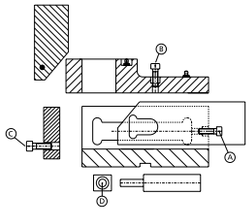
CAM **MASC**

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 / 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 (MoS2). 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 (MoS2).

DE Achtung: Wartungs-und Demontagearbeiten 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 (MoS2). Die Verwendung dieses Fett wird durch Newstark empfohlen.
7. Auf richtigen Sitz der einzelnen Komponenten achten.

Während des Gebrauches, mit Molybdändisulfidfett (MoS2) nachschmieren.

EN Attention: Undertake reassemly 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 of 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 (MoS2). 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 (MoS2).

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 (MoS2). Newstark recommande l'utilisation de cette graisse.
7. S'assurer que les différents éléments sont correctement repositionnés.

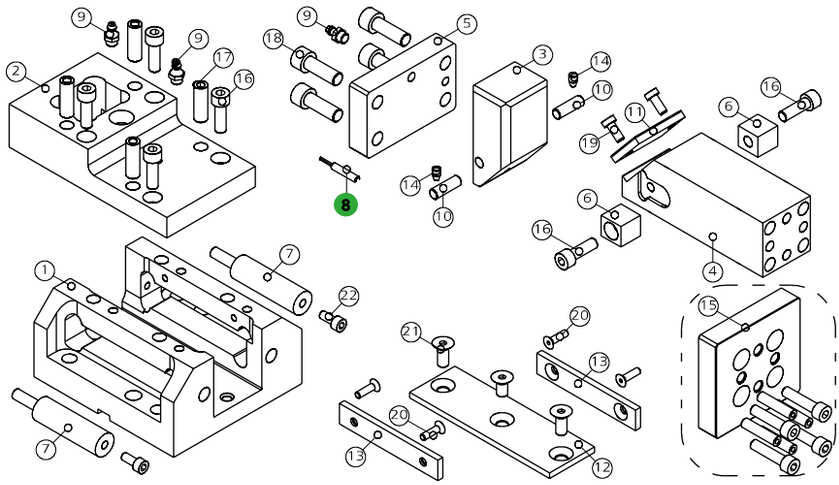
Lubrifier avec de la graisse au bisulfure de molybdène (MoS2).

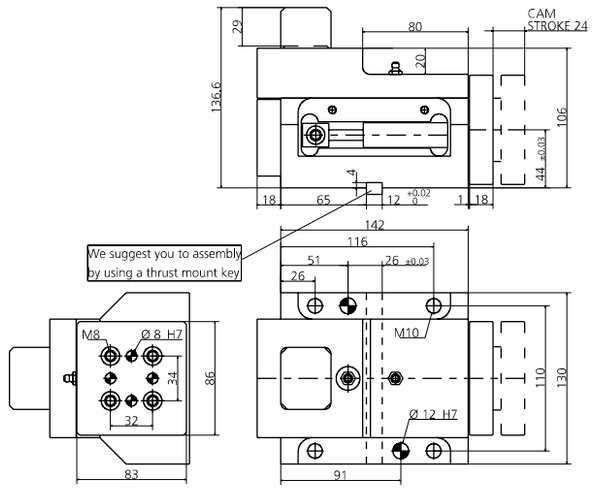
0145.0404 - **CAM MASC400 S48**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **400 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **450 daN**

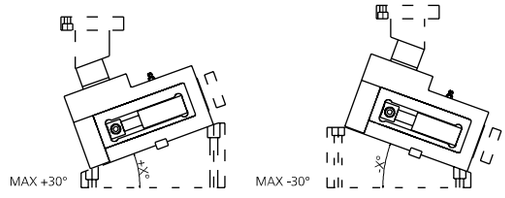
SFORZO MAX TRANCIO — **8000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE





POS.	CODE	DESCRIPTION	Q.TY
001	**8000.0045.0404**	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

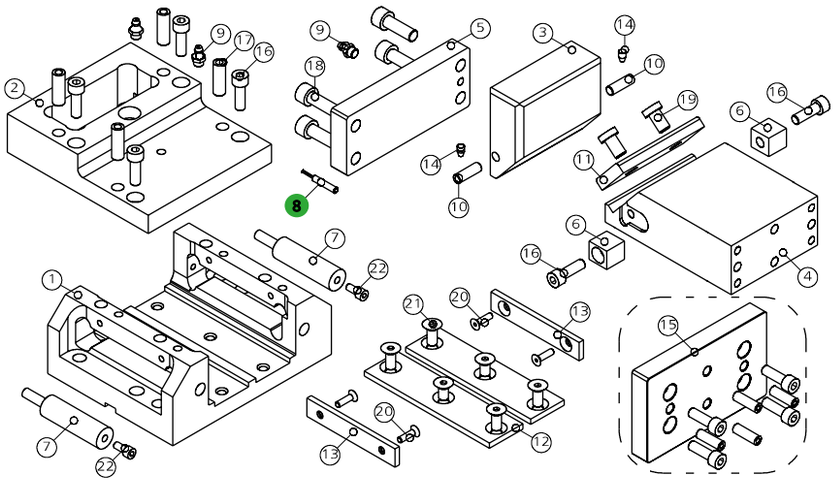
MODEL **0145.0404** OPTION CODE **8014.4546.0404**

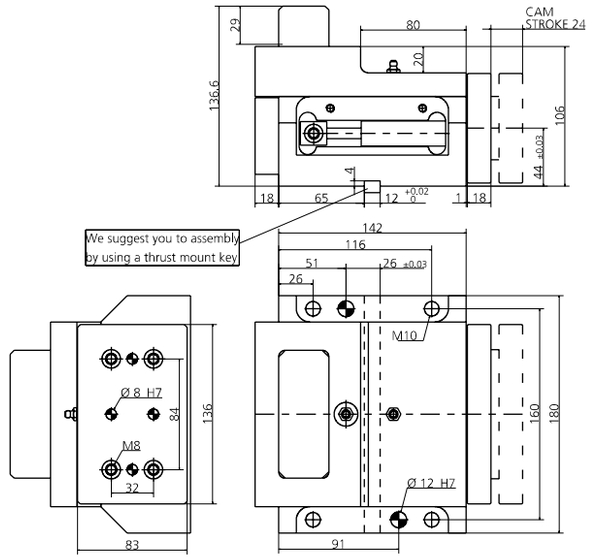
0145.0409 - **CAM MASC400 S98**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **400 daN**

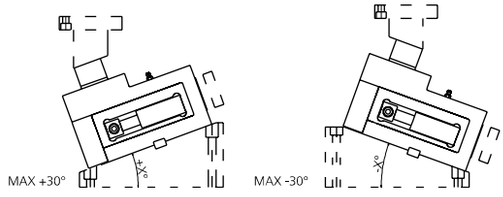
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **450 daN**

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





POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



POS.	CODE	DESCRIPTION	Q.TY
001	8000.0045.0409	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8010.4546.0409	COPERCHIO / COVER / KOPFPLATTE	1
003	8008.4546.0910	CUNEO / WEDGE / DRUCKKEIL	1
004	8007.4546.0409	SLITTA / SLIDER / LAGE	1
005	8002.4546.0409	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	8012.0920.0380.100.001	PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE	1
012	8012.1420.0380.050.001	PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE	2
013	9012.1000.0180.050.001	PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE	2
014	9020.06.10.E090	PUNTALINO / BUMP STOP / DRUCKSTÜCK	2
015	8014.4546.0409	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	9007.06.012.129.1.4762	VITE / SCREW / SCHRAUBE M6X12	2

008 (9003) SENSORE / SENSOR / SENSOR

8 PATENT PENDING

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

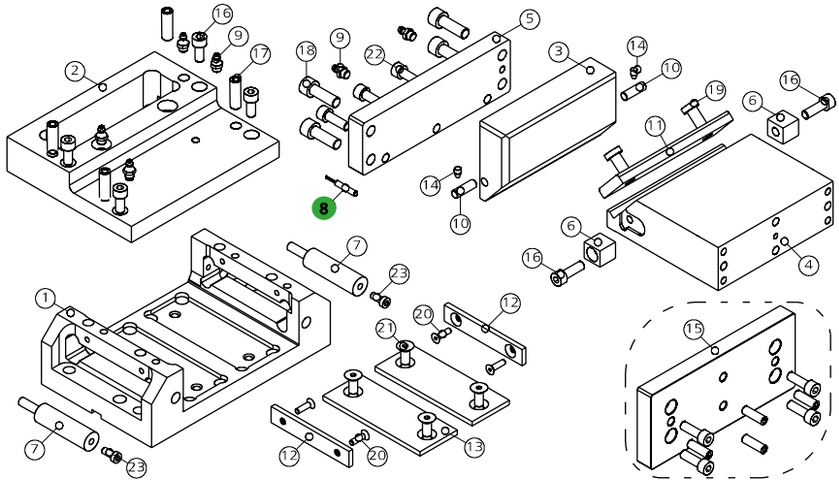
MODEL **0145.0409** OPTION CODE **8014.4546.0409**

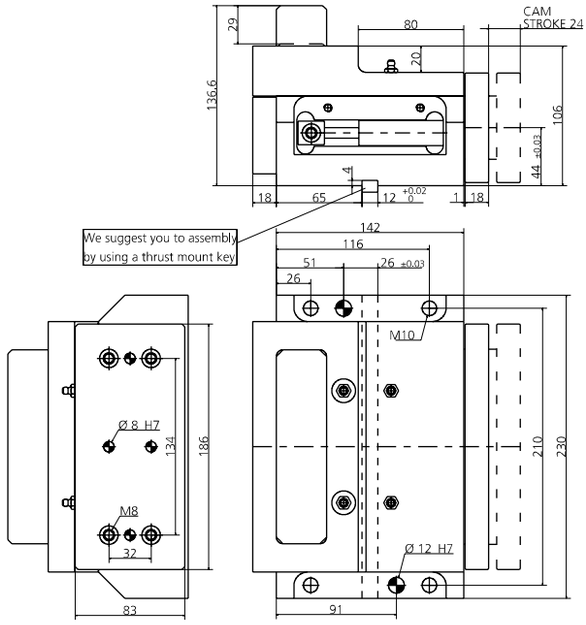
0145.0414 - **CAM MASC400 S148**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **400 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **450 daN**

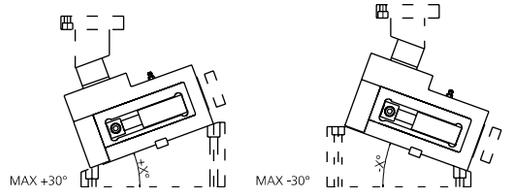
SFORZO MAX TRANCIO — **8000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE





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

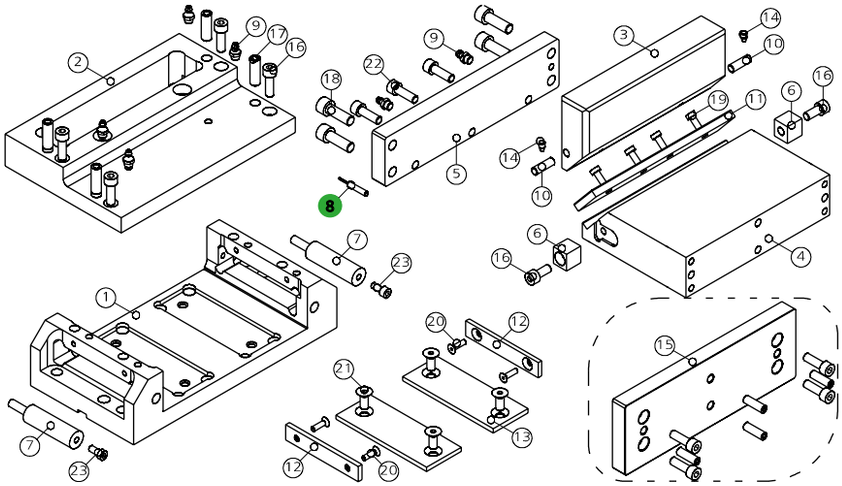
MODEL **0145.0414** OPTION CODE **8014.4546.0414**

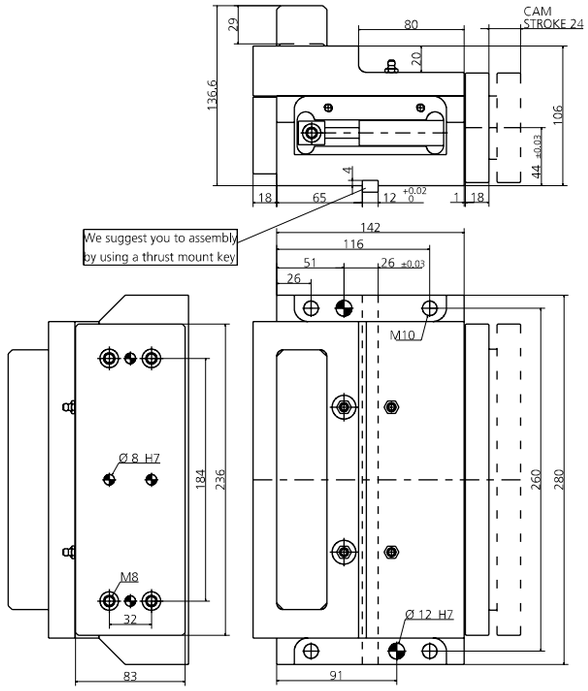
0145.0419 - **CAM MASC400 S198**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **400 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **450 daN**

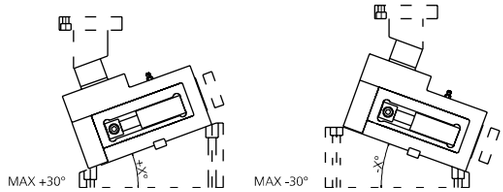
SFORZO MAX TRANCIO — **8000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE





POS.	CODE	DESCRIPTION	Q.TY
001	8000.0045.0419	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8010.4546.0419	COPERCHIO / COVER / KOPFPLATTE	1
003	8008.4546.1920	CUNEO / WEDGE / DRUCKKEIL	1
004	8007.4546.0419	SLITTA / SLIDER / LAGE	1
005	8002.4546.0419	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	8012.0950.0370.080.001	PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE	2
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	8014.4546.0419	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	4
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

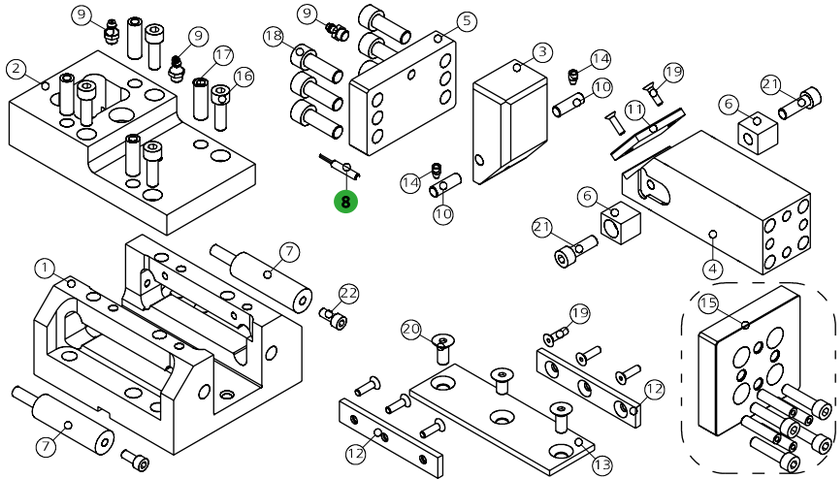
MODEL **0145.0419** OPTION CODE **8014.4546.0419**

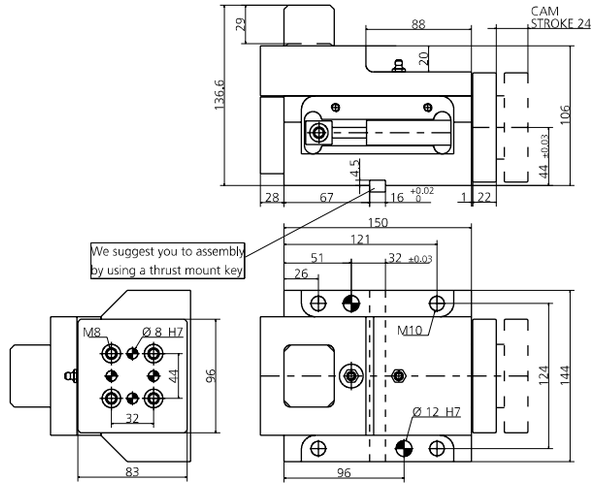
0145.0905 - **CAM MASC900 S58**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION **900 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION **1200 daN**

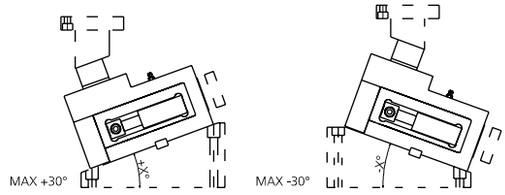
SFORZO MAX TRANCIO **14000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE





POS.	CODE	DESCRIPTION	Q.TY
001	**8000.0045.0905**	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	**8010.4546.0905**	COPERCHIO / COVER / KOPFPLATTE	1
003	**8008.4546.0405**	CUNEO / WEDGE / DRUCKKEIL	1
004	**8007.4546.0905**	SLITTA / SLIDER / LAGE	1
005	**8002.4546.0905**	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	**8012.0550.0380.060.001**	PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE	1
012	**9012.1500.0180.050.001**	PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE	2
013	**9012.1500.0480.050.001**	PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE	1
014	**9020.06.10.E090**	PUNTALINO / BUMP STOP / DRUCKSTÜCK	2
015	**8014.4546.0905**	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	6
019	**9007.06.012.129.1.5933**	VITE / SCREW / SCHRAUBE M6X12	8
020	**9007.08.012.129.1.5933**	VITE / SCREW / SCHRAUBE M8X12	3
021	**9007.08.030.129.1.4762**	VITE / SCREW / SCHRAUBE M8X30	2
022	**9007.06.016.129.1.4762**	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

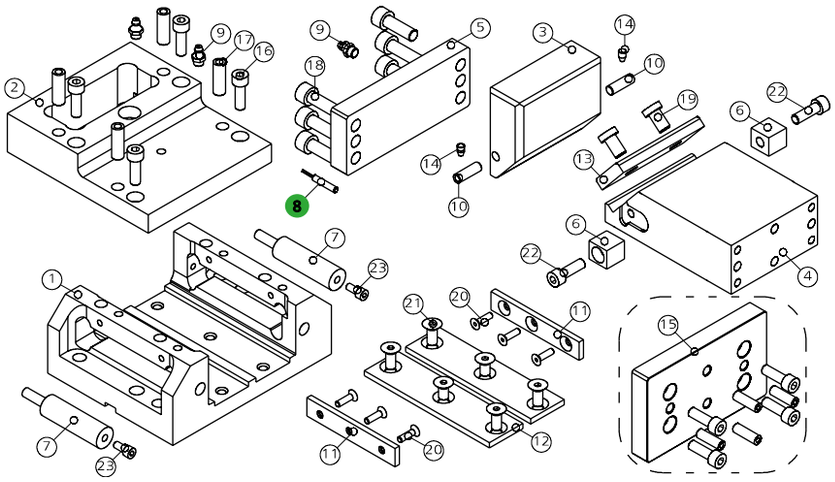
MODEL **0145.0905** OPTION CODE **8014.4546.0905**

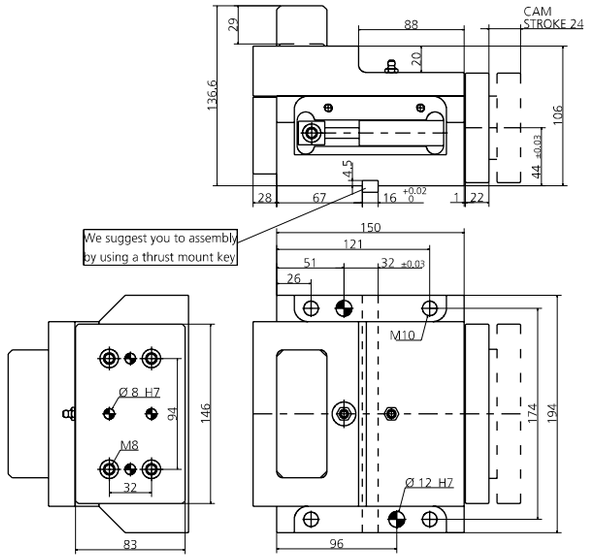
0145.0910 - **CAM MASC900 S108**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **900 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **1200 daN**

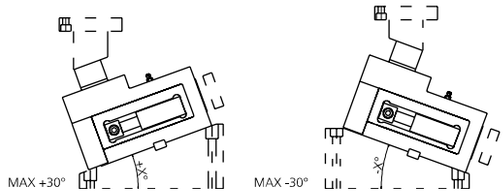
SFORZO MAX TRANCIO — **14000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE





POS.	CODE	DESCRIPTION	Q.TY
001	8000.0045.0910	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8010.4546.0910	COPERCHIO / COVER / KOPFPLATTE	1
003	8008.4546.0910	CUNEO / WEDGE / DRUCKKEIL	1
004	8007.4546.0910	SLITTA / SLIDER / LAGE	1
005	8002.4546.0910	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	9012.1000.0380.100.001	PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE	1
014	9020.06.10.E090	PUNTALINO / BUMP STOP / DRUCKSTÜCK	2
015	8014.4546.0910	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	6
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

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (9003) SENSORE / SENSOR / SENSOR

8 PATENT PENDING

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

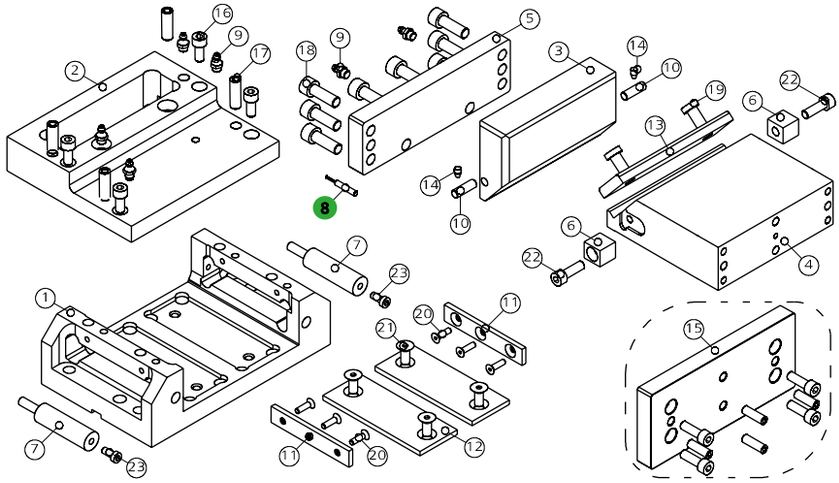
MODEL **0145.0910** OPTION CODE **8014.4546.0910**

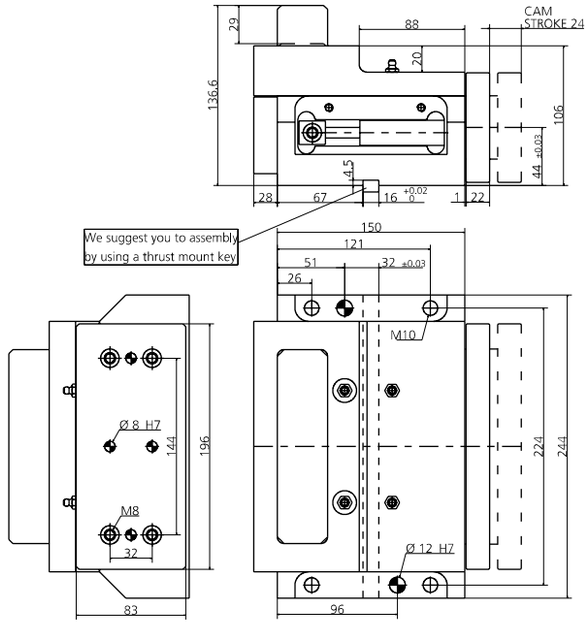
0145.0915 - **CAM MASC900 S158**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **900 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **1200 daN**

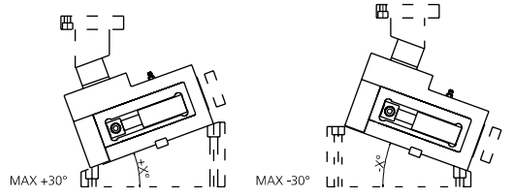
SFORZO MAX TRANCIO — **14000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE





POS.	CODE	DESCRIPTION	Q.TY
001	**8000.0045.0915**	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

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (9003) SENSORE / SENSOR / SENSOR

8 PATENT PENDING

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

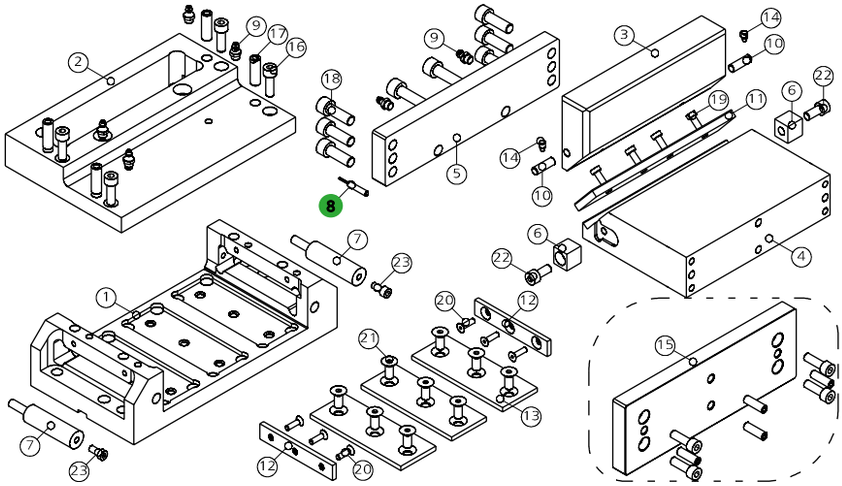
MODEL **0145.0915** OPTION CODE **8014.4546.0915**

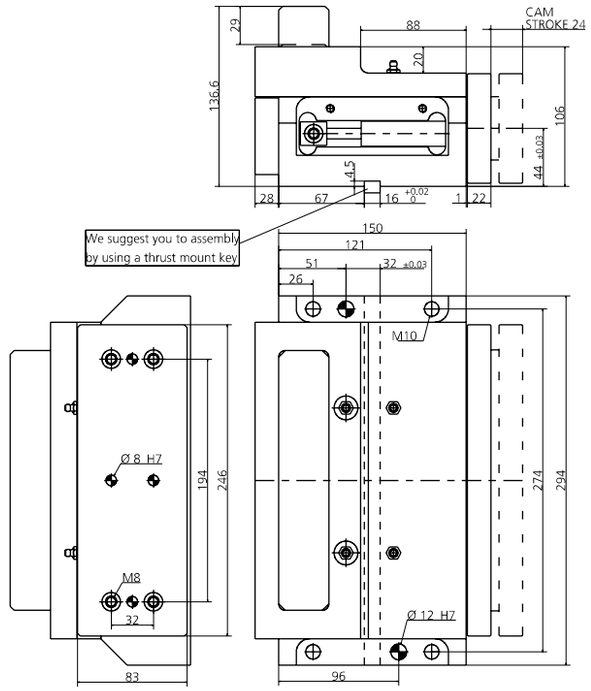
0145.0920 - **CAM MASC900 S208**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **900 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **1200 daN**

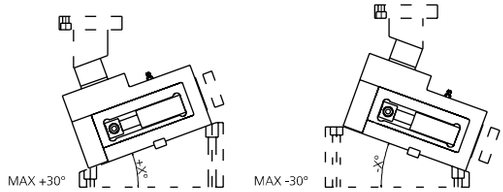
SFORZO MAX TRANCIO — **14000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE





POS.	CODE	DESCRIPTION	Q.TY
001	8000.0045.0920	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8010.4546.0920	COPERCHIO / COVER / KOPFPLATTE	1
003	8008.4546.1920	CUNEO / WEDGE / DRUCKKEIL	1
004	8007.4546.0920	SLITTA / SLIDER / LAGE	1
005	8002.4546.0920	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	8012.1025.0380.080.001	PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE	2
012	9012.1500.0180.050.001	PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE	2
013	9012.1500.0480.050.001	PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE	3
014	9020.06.10.E090	PUNTALINO / BUMP STOP / DRUCKSTÜCK	2
015	8014.4546.0920	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	9007.06.010.088.1.9327	VITE / SCREW / SCHRAUBE M6X10	4
020	9007.06.012.129.1.5933	VITE / SCREW / SCHRAUBE M6X12	6
021	9007.08.012.129.1.5933	VITE / SCREW / SCHRAUBE M8X12	9
022	9007.08.030.129.1.4762	VITE / SCREW / SCHRAUBE M8X30	2
023	9007.06.016.129.1.4762	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

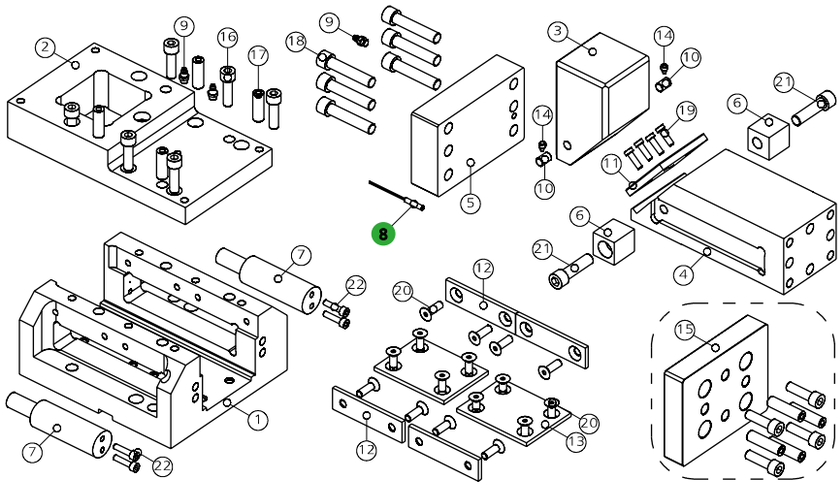
MODEL **0145.0920** OPTION CODE **8014.4546.0920**

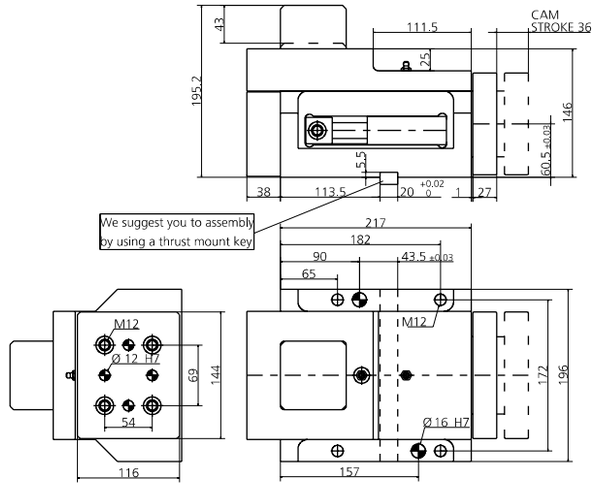
0145.1508 - **CAM MASC1500 S88**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION **1500 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION **1950 daN**

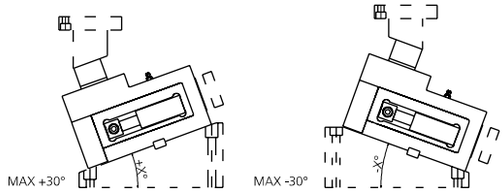
SFORZO MAX TRANCIO **20000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE





POS.	CODE	DESCRIPTION	Q.TY
001	**8000.0045.1508**	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	**8010.4546.1508**	COPERCHIO / COVER / KOPFPLATTE	1
003	**8008.4546.0008**	CUNEO / WEDGE / DRUCKKEIL	1
004	**8007.4546.1508**	SLITTA / SLIDER / LAGE	1
005	**8002.4546.1508**	FLANGIA POSTERIORE / REAR FLANGE / HINTERER FLANSCH	1
006	**8026.0340.0300.300.001**	BLOCCHETTO REGGI MOLLA / SPRING HOLDER BLOCK / FEDERLAGERBLOCK	2
007	**9000.0038.0032.001**	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	**8005.0250.0250.100.001**	PERNO / PIN / STIFT	2
011	**8012.0750.0750.080.001**	PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE	1
012	**9012.1000.0280.050.001**	PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE	4
013	**9012.1000.0750.050.001**	PIASTRA DI SCORRIMENTO / SLIDING PAD / GLEITPLATTE	2
014	**9020.06.10.E090**	PUNTALINO / BUMP STOP / DRUCKSTÜCK	2
015	**8014.4546.1508**	KIT PORTA PUNZONE / KIT PUNCH HOLDER / KIT TRÄGERPLATTE	1*OPTION
016	**9007.10.030.129.1.4762**	VITE / SCREW / SCHRAUBE M10X30	6
017	**9028.120.030.8735**	SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D12X30	4
018	**9007.12.055.129.1.4762**	VITE / SCREW / SCHRAUBE M12X55	6
019	**9007.06.010.088.1.9327**	VITE / SCREW / SCHRAUBE M6X10	4
020	**9007.08.012.129.1.5933**	VITE / SCREW / SCHRAUBE M8X12	16
021	**9007.12.040.129.1.4762**	VITE / SCREW / SCHRAUBE M12X40	2
022	**9007.05.025.129.1.4762**	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 **0145.1508** OPTION CODE **8014.4546.1508**

CAM MASC

100% CUSTOMISABLE PRODUCT

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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.

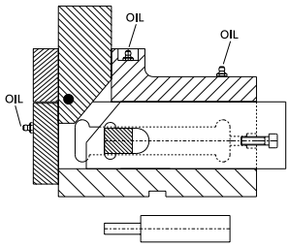
DE Mechanische Stanzeinheit Kraft bis 20˙000 daN mit einem Rücklauf der durch Stickstofffedern sichergestellt wird. An der Schubstange kann Zubehör je nach Bedarf angebracht werden. Bei diesem Modell, wird die Bewegung durch Keile umgesetzt. Durch die Art der Schubstange wird die Rotationsbewegung so 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

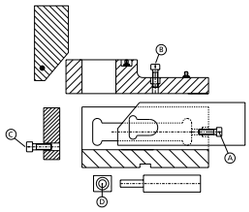
CAM **MASC COMPACT**

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 (MoS2). 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 (MoS2).

DE Achtung: Wartungs-und Demontagearbeiten 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 (MoS2). Die Verwendung dieses Fett wird durch Newstark empfohlen.
7. Auf richtigen Sitz der einzelnen Komponenten achten.

Während des Gebrauches, mit Molybdändisulfidfett (MoS2) Stellen nachschmieren.

EN Attention: Undertake reassemly 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 of 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 (MoS2). 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 (MoS2).

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 (MoS2). Newstark recommande l'utilisation de cette graisse.
7. S'assurer que les différents éléments sont correctement repositionnés.

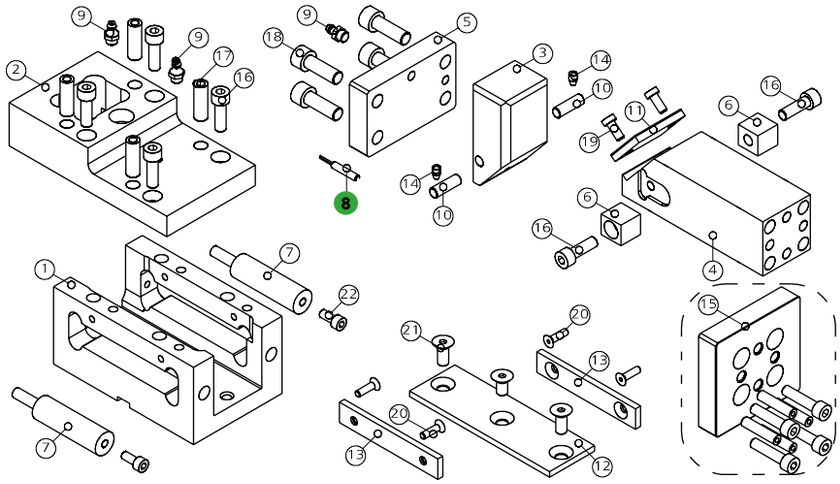
Lubrifier avec de la graisse au bisulfure de molybdène (MoS2).

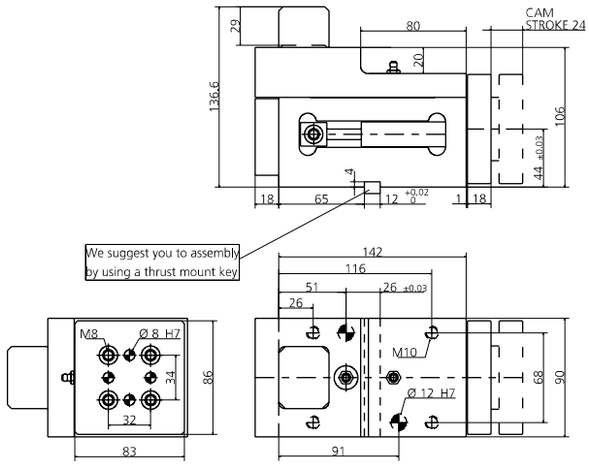
0146.0404 - **CAM MASC COMPACT400 S48**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **400 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **450 daN**

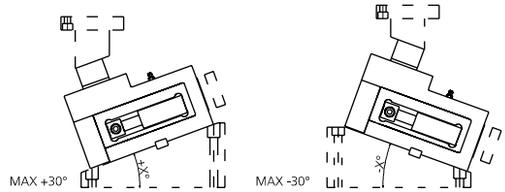
SFORZO MAX TRANCIO
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE — **8000 daN**





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 SCORRRIMENTO / SLIDING PAD / GLEITPLATTE	1
012	**8012.1420.0460.050.001**	PIASTRA DI SCORRRIMENTO / SLIDING PAD / GLEITPLATTE	1
013	**9012.1000.0180.050.001**	PIASTRA DI SCORRRIMENTO / 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

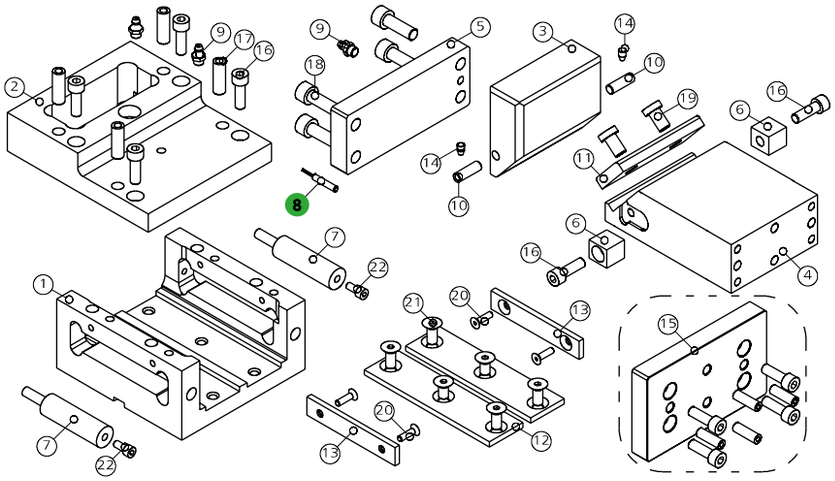
MODEL **0146.0404** OPTION CODE **8014.4546.0404**

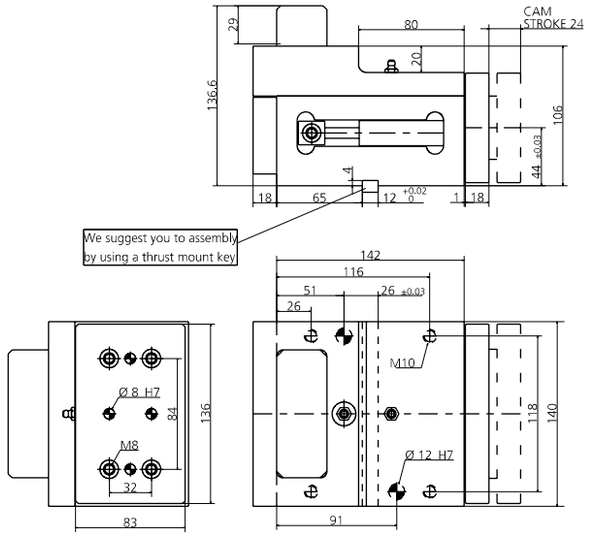
0146.0409 - **CAM MASC COMPACT400 S98**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION **400 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION **450 daN**

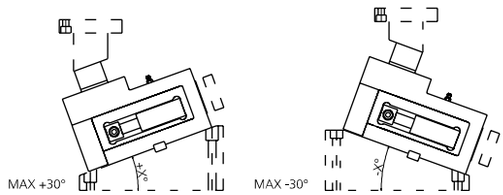
SFORZO MAX TRANCIO **8000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE





POS.	CODE	DESCRIPTION	Q.TY
001	8000.0046.0409	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8010.4546.0409	COPERCHIO / COVER / KOPFPLATTE	1
003	8008.4546.0910	CUNEO / WEDGE / DRUCKKEIL	1
004	8007.4546.0409	SLITTA / SLIDER / LAGE	1
005	8002.4546.0409	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	8012.0920.0380.100.001	PIASTRA DI SCORRRIMENTO / SLIDING PAD / GLEITPLATTE	1
012	8012.1420.0380.050.001	PIASTRA DI SCORRRIMENTO / SLIDING PAD / GLEITPLATTE	2
013	9012.1000.0180.050.001	PIASTRA DI SCORRRIMENTO / SLIDING PAD / GLEITPLATTE	2
014	9020.06.10.E090	PUNTALINO / BUMP STOP / DRUCKSTÜCK	2
015	8014.4546.0409	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	9007.06.012.129.1.4762	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

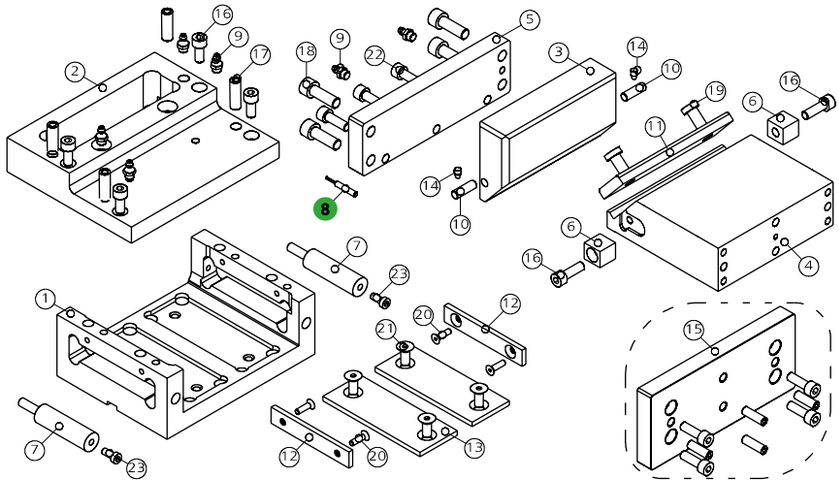
MODEL **0146.0409** OPTION CODE **8014.4546.0409**

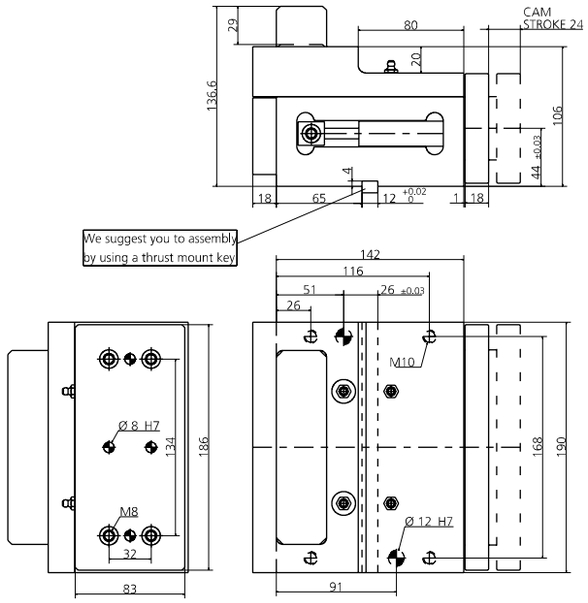
0146.0414 - **CAM MASC COMPACT400 S148**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **400 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **450 daN**

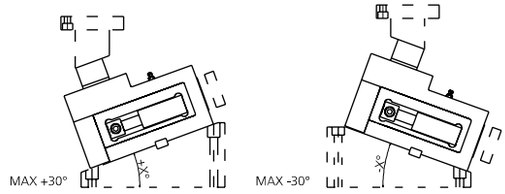
SFORZO MAX TRANCIO
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE — **8000 daN**





POS.	CODE	DESCRIPTION	Q.TY
001	**8000.0046.0414**	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 SCORRRIMENTO / SLIDING PAD / GLEITPLATTE	1
012	**9012.1000.0180.050.001**	PIASTRA DI SCORRRIMENTO / SLIDING PAD / GLEITPLATTE	2
013	**9012.1250.0480.050.001**	PIASTRA DI SCORRRIMENTO / 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

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (9003) SENSORE / SENSOR / SENSOR

8 PATENT PENDING

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

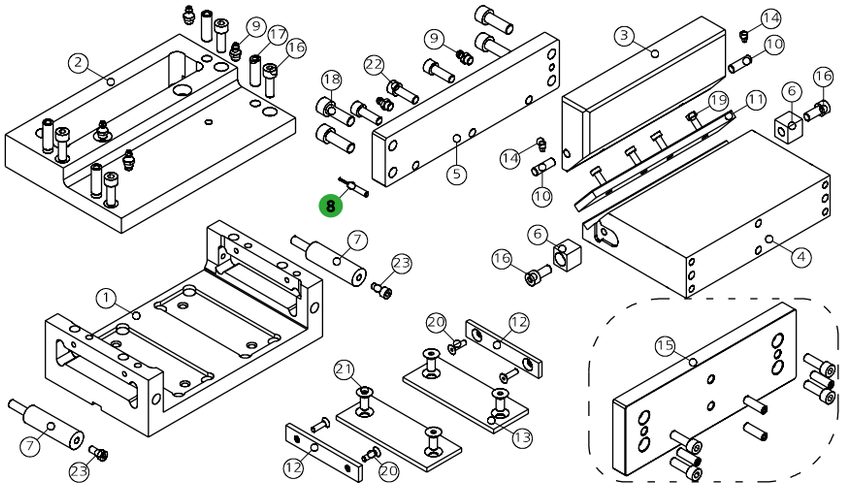
MODEL **0146.0414** OPTION CODE **8014.4546.0414**

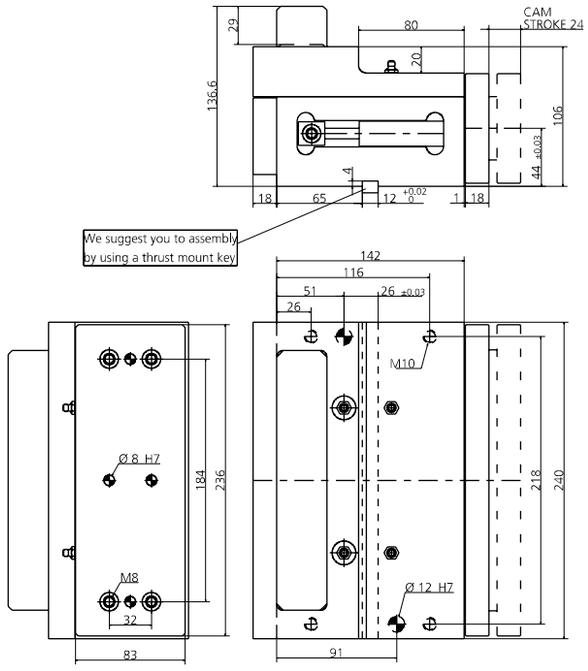
0146.0419 - **CAM MASC COMPACT400 S198**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **400 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **450 daN**

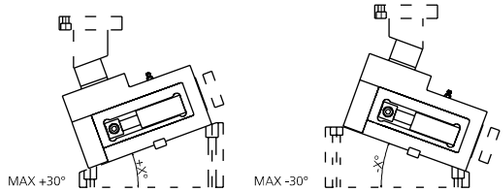
SFORZO MAX TRANCIO — **8000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE





POS.	CODE	DESCRIPTION	Q.TY
001	8000.0046.0419	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8010.4546.0419	COPERCHIO / COVER / KOPFPLATTE	1
003	8008.4546.1920	CUNEO / WEDGE / DRUCKKEIL	1
004	8007.4546.0419	SLITTA / SLIDER / LAGE	1
005	8002.4546.0419	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	8012.0950.0370.080.001	PIASTRA DI SCORRRIMENTO / SLIDING PAD / GLEITPLATTE	2
012	9012.1000.0180.050.001	PIASTRA DI SCORRRIMENTO / SLIDING PAD / GLEITPLATTE	2
013	9012.1250.0480.050.001	PIASTRA DI SCORRRIMENTO / SLIDING PAD / GLEITPLATTE	2
014	9020.06.10.E090	PUNTALINO / BUMP STOP / DRUCKSTÜCK	2
015	8014.4546.0419	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	4
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

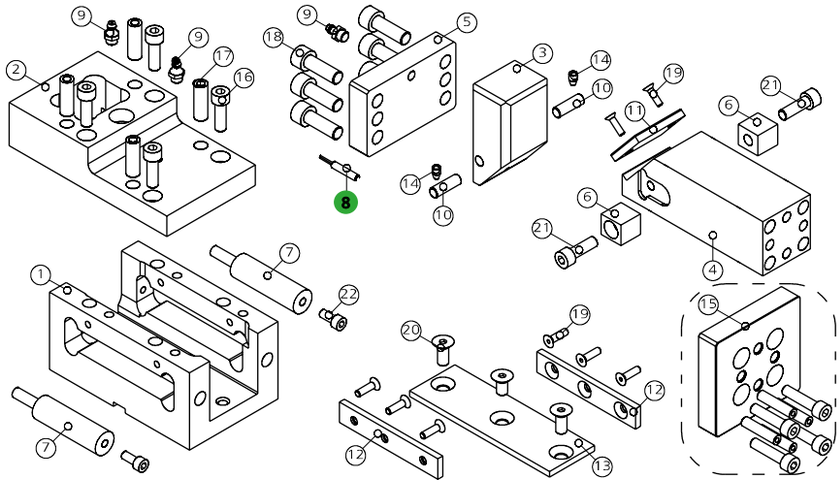
MODEL **0146.0419** OPTION CODE **8014.4546.0419**

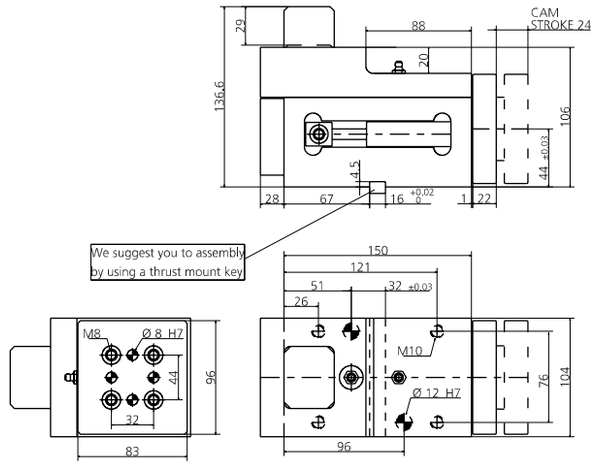
0146.0905 - **CAM MASC COMPACT900 S58**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **900 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **1200 daN**

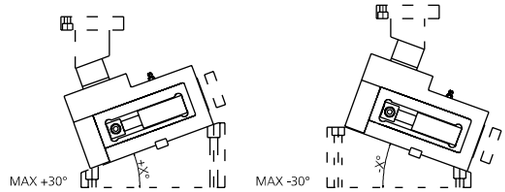
SFORZO MAX TRANCIO — **14000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE





POS.	CODE	DESCRIPTION	Q.TY
001	8000.0046.0905	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8010.4546.0905	COPERCHIO / COVER / KOPFPLATTE	1
003	8008.4546.0405	CUNEO / WEDGE / DRUCKKEIL	1
004	8007.4546.0905	SLITTA / SLIDER / LAGE	1
005	8002.4546.0905	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	8012.0550.0380.060.001	PIASTRA DI SCORRRIMENTO / SLIDING PAD / GLEITPLATTE	1
012	9012.1500.0180.050.001	PIASTRA DI SCORRRIMENTO / SLIDING PAD / GLEITPLATTE	2
013	9012.1500.0480.050.001	PIASTRA DI SCORRRIMENTO / SLIDING PAD / GLEITPLATTE	1
014	9020.06.10.E090	PUNTALINO / BUMP STOP / DRUCKSTÜCK	2
015	8014.4546.0905	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	6
019	9007.06.012.129.1.5933	VITE / SCREW / SCHRAUBE M6X12	8
020	9007.08.012.129.1.5933	VITE / SCREW / SCHRAUBE M8X12	3
021	9007.08.030.129.1.4762	VITE / SCREW / SCHRAUBE M8X30	2
022	9007.06.016.129.1.4762	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

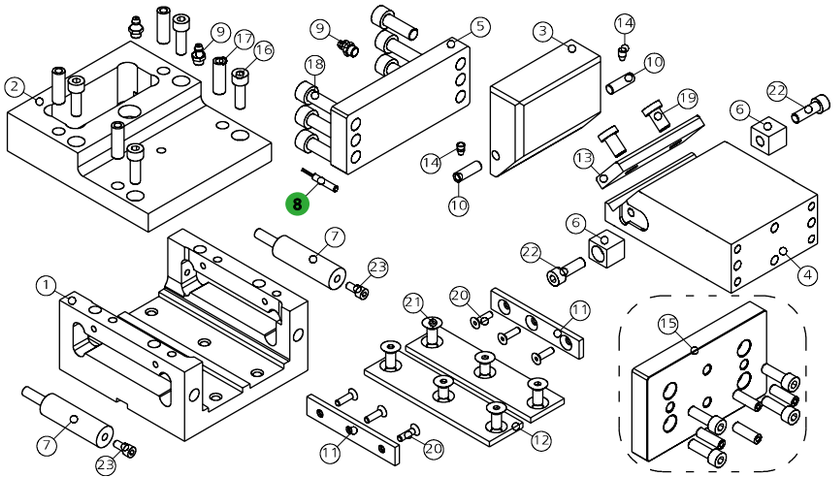
MODEL **0146.0905** OPTION CODE **8014.4546.0905**

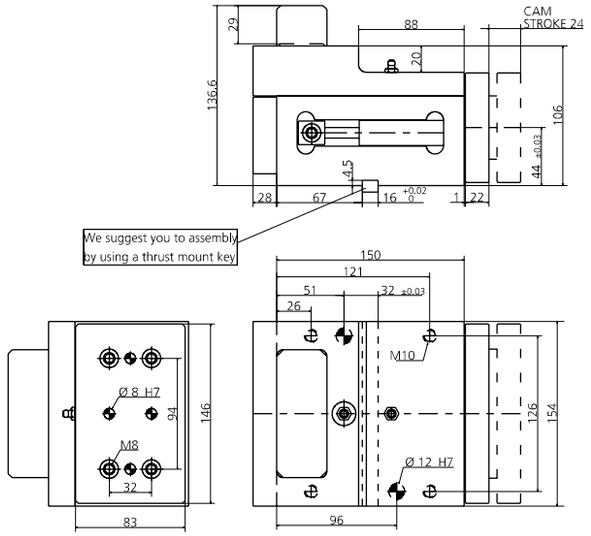
0146.0910 - **CAM MASC COMPACT900 S108**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **900 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **1200 daN**

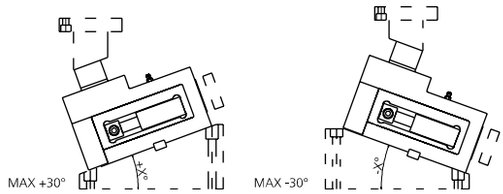
SFORZO MAX TRANCIO — **14000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE





POS.	CODE	DESCRIPTION	Q.TY
001	8000.0046.0910	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8010.4546.0910	COPERCHIO / COVER / KOPFPLATTE	1
003	8008.4546.0910	CUNEO / WEDGE / DRUCKKEIL	1
004	8007.4546.0910	SLITTA / SLIDER / LAGE	1
005	8002.4546.0910	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 SCORRRIMENTO / SLIDING PAD / GLEITPLATTE	2
012	9012.1500.0480.050.001	PIASTRA DI SCORRRIMENTO / SLIDING PAD / GLEITPLATTE	2
013	9012.1000.0380.100.001	PIASTRA DI SCORRRIMENTO / SLIDING PAD / GLEITPLATTE	1
014	9020.06.10.E090	PUNTALINO / BUMP STOP / DRUCKSTÜCK	2
015	8014.4546.0910	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	6
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

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (9003) SENSORE / SENSOR / SENSOR

8 PATENT PENDING

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

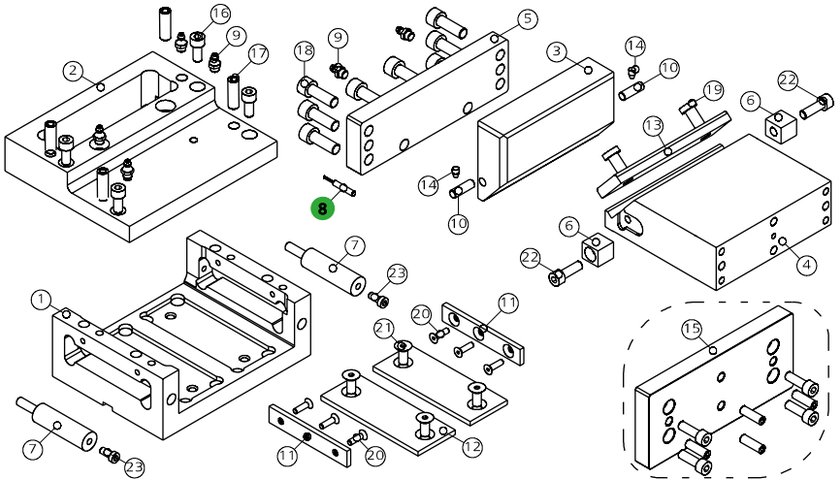
MODEL **0146.0910** OPTION CODE **8014.4546.0910**

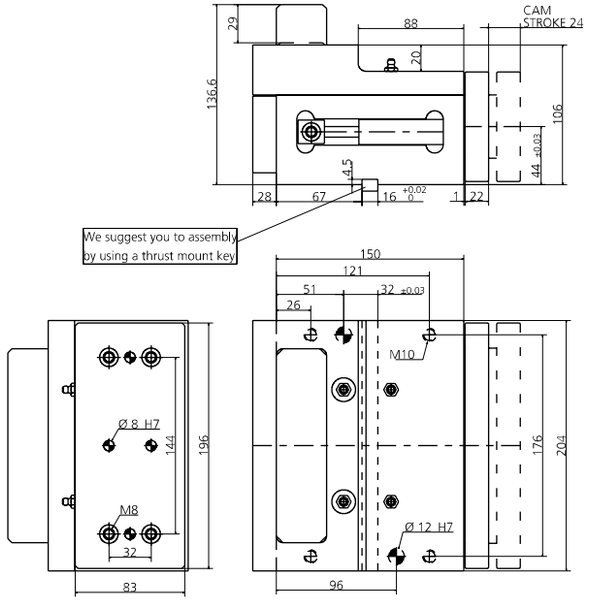
0146.0915 - **CAM MASC COMPACT900 S158**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **900 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **1200 daN**

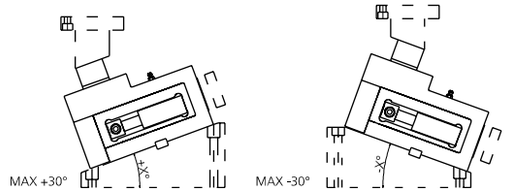
SFORZO MAX TRANCIO — **14000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE





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 SCORRRIMENTO / SLIDING PAD / GLEITPLATTE	2
012	9012.1500.0480.050.001	PIASTRA DI SCORRRIMENTO / SLIDING PAD / GLEITPLATTE	2
013	9012.1500.0380.100.001	PIASTRA DI SCORRRIMENTO / 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

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (9003) SENSORE / SENSOR / SENSOR

8 PATENT PENDING

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

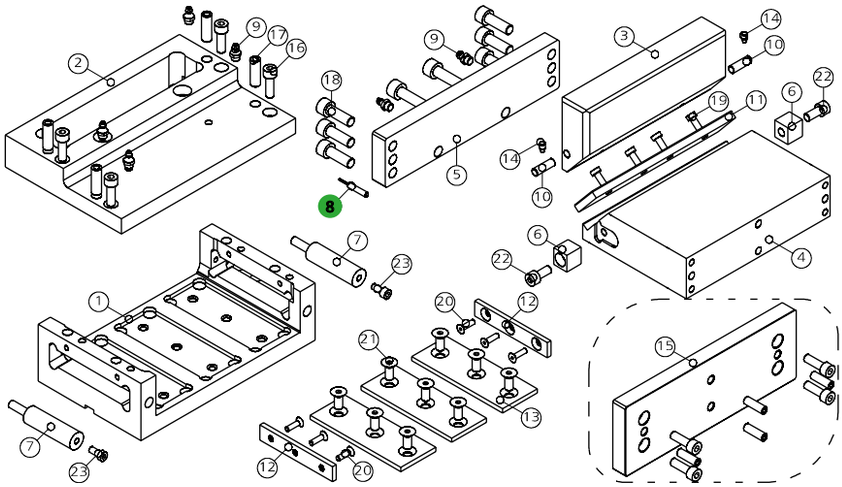
MODEL **0146.0915** OPTION CODE **8014.4546.0915**

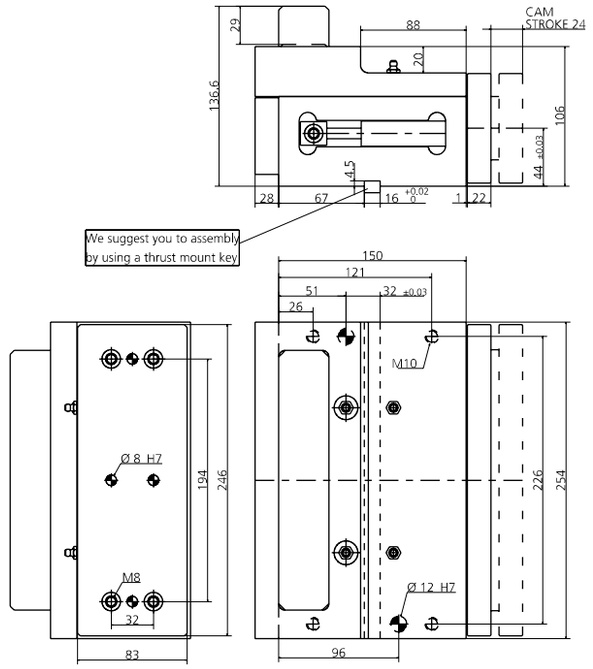
0146.0920 - **CAM MASC COMPACT900 S208**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **900 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **1200 daN**

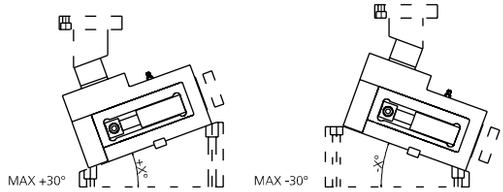
SFORZO MAX TRANCIO — **14000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE





POS.	CODE	DESCRIPTION	Q.TY
001	8000.0046.0920	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8010.4546.0920	COPERCHIO / COVER / KOPFPLATTE	1
003	8008.4546.1920	CUNEO / WEDGE / DRUCKKEIL	1
004	8007.4546.0920	SLITTA / SLIDER / LAGE	1
005	8002.4546.0920	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	8012.1025.0380.080.001	PIASTRA DI SCORRRIMENTO / SLIDING PAD / GLEITPLATTE	2
012	9012.1500.0180.050.001	PIASTRA DI SCORRRIMENTO / SLIDING PAD / GLEITPLATTE	2
013	9012.1500.0480.050.001	PIASTRA DI SCORRRIMENTO / SLIDING PAD / GLEITPLATTE	3
014	9020.06.10.E090	PUNTALINO / BUMP STOP / DRUCKSTÜCK	2
015	8014.4546.0920	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	9007.06.010.088.1.9327	VITE / SCREW / SCHRAUBE M6X10	4
020	9007.06.012.129.1.5933	VITE / SCREW / SCHRAUBE M6X12	6
021	9007.08.012.129.1.5933	VITE / SCREW / SCHRAUBE M8X12	9
022	9007.08.030.129.1.4762	VITE / SCREW / SCHRAUBE M8X30	2
023	9007.06.016.129.1.4762	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

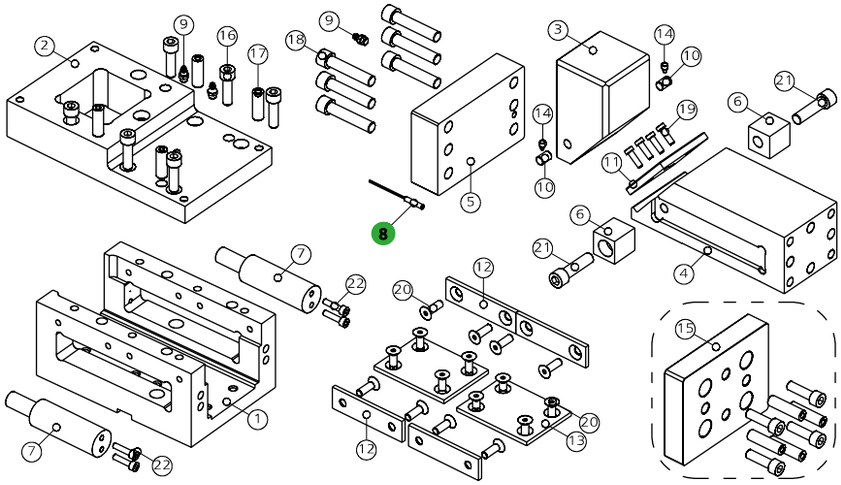
MODEL **0146.0920** OPTION CODE **8014.4546.0920**

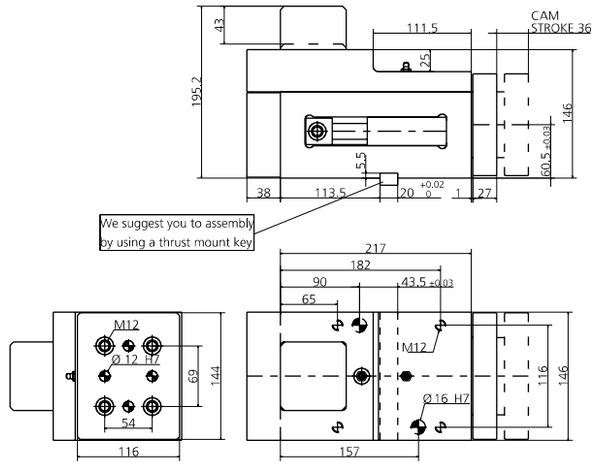
0146.1508 - **CAM MASC COMPACT1500 S88**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **1500 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **1950 daN**

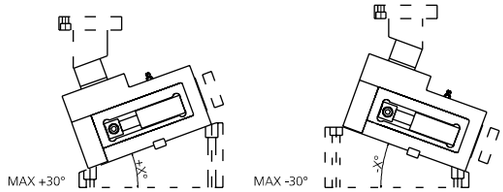
SFORZO MAX TRANCIO — **20000 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE





POS.	CODE	DESCRIPTION	Q.TY
001	8000.0046.1508	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8010.4546.1508	COPERCHIO / COVER / KOPFPLATTE	1
003	8008.4546.0008	CUNEO / WEDGE / DRUCKKEIL	1
004	8007.4546.1508	SLITTA / SLIDER / LAGE	1
005	8002.4546.1508	FLANGIA POSTERIORE / REAR FLANGE / HINTERER FLANSCH	1
006	8026.0340.0300.300.001	BLOCCHETTO REGGI MOLLA / SPRING HOLDER BLOCK / FEDERLAGERBLOCK	2
007	9000.0038.0032.001	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	8005.0250.0250.100.001	PERNO / PIN / STIFT	2
011	8012.0750.0750.080.001	PIASTRA DI SCORRRIMENTO / SLIDING PAD / GLEITPLATTE	1
012	9012.1000.0280.050.001	PIASTRA DI SCORRRIMENTO / SLIDING PAD / GLEITPLATTE	4
013	9012.1000.0750.050.001	PIASTRA DI SCORRRIMENTO / SLIDING PAD / GLEITPLATTE	2
014	9020.06.10.E090	PUNTALINO / BUMP STOP / DRUCKSTÜCK	2
015	8014.4546.1508	KIT PORTA PUNZONE / KIT PUNCH HOLDER / KIT TRÄGERPLATTE	1*OPTION
016	9007.10.030.129.1.4762	VITE / SCREW / SCHRAUBE M10X30	6
017	9028.120.030.8735	SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D12X30	4
018	9007.12.055.129.1.4762	VITE / SCREW / SCHRAUBE M12X55	6
019	9007.06.010.088.1.9327	VITE / SCREW / SCHRAUBE M6X10	4
020	9007.08.012.129.1.5933	VITE / SCREW / SCHRAUBE M8X12	16
021	9007.12.040.129.1.4762	VITE / SCREW / SCHRAUBE M12X40	2
022	9007.05.025.129.1.4762	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

100% CUSTOMISABLE PRODUCT

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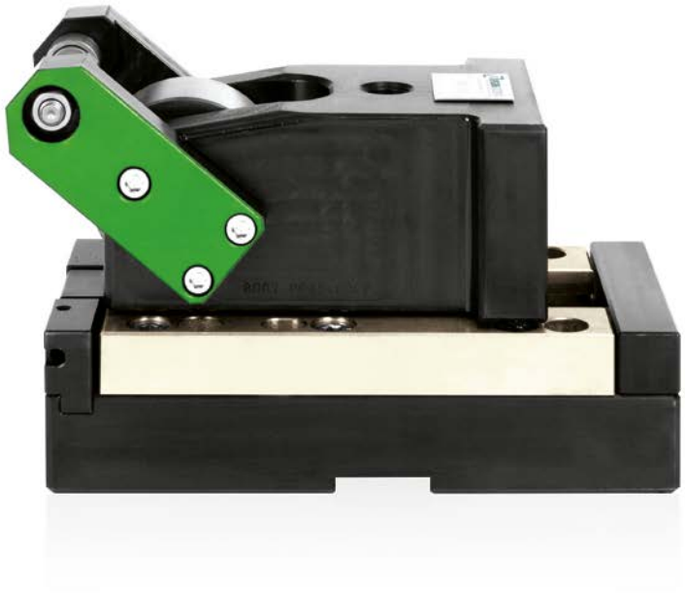


CAM **ROLLER**

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.

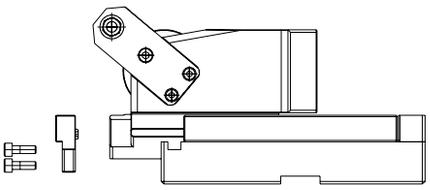
PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE

CAM **ROLLER**

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

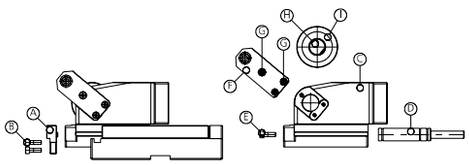
⚠ **Forature sulla slitta a richiesta.**
Su richiesta è possibile montare un'unità di punzonatura speciale.
Upon request drillings are available in the slide.
Upon request, it is possible to assemble a special punching unit.
Auf Anfrage sind Bohrungen möglich.
Auf Anfrage ist die Montage einer Stanzeinheit 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 (MoS2). L'uso di questo grasso viene consigliato da Newstark .

Lubrificare durante l'uso con grasso bisolfuro di Molibdeno (MoS2).

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 MoS2-Fett wieder zusammen. Die Verwendung von MoS2-Fett wird von Newstark empfohlen.

Während der Nutzung fetten Sie mit MoS2-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 (MoS2). The use of this grease is recommended by Newstark.

During use lubricate with grease with disulfide molybdeno (MoS2).

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 (MoS2). Newstark recommande l'utilisation de cette graisse.

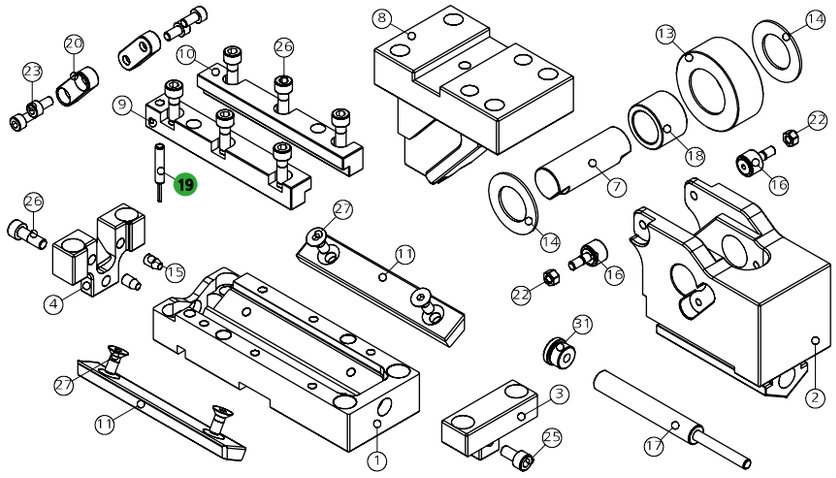
Lubrifier avec de la graisse au bisulfure de molybdène (MoS2).

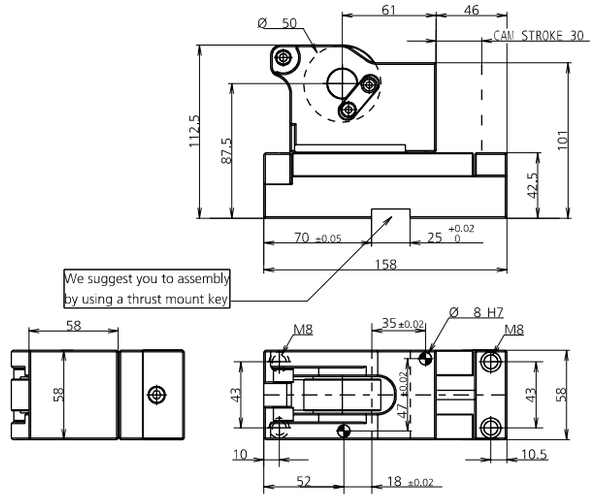
0149.P030 - **CAM ROLLER P030**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **50 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **100 daN**

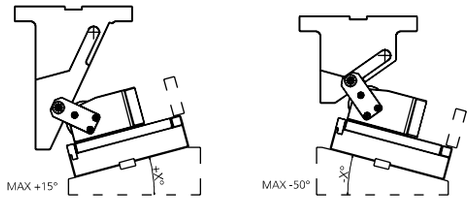
SFORZO MAX TRANCIO — **3400 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



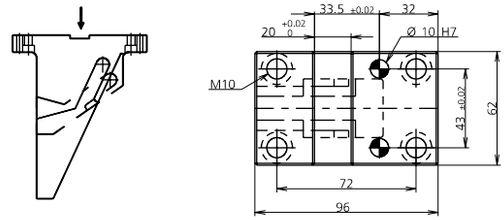


POS.	CODE	DESCRIPTION	Q.TY
001	**8000.0049.0030**	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	**8007.0049.0000**	SLITTA / SLIDER / LAGERKEIL	1
003	**8088.0049.0000.001**	PIASTRINA / PLATE / PLATTE	1
004	**8088.0049.0000.002**	PIASTRINA / PLATE / PLATTE	1
007	**8005.0580.0417.200.001**	PERNO / PIN / STIFT	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 / UNTERLEGSCHEIBE	2
031	**8089.0160.0110.001**	DISTANZIALE / SPACER / ABSTANDSHALTER	1

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜK



019 (9003) SENSORE / SENSOR / SENSOR

19 PATENT PENDING

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

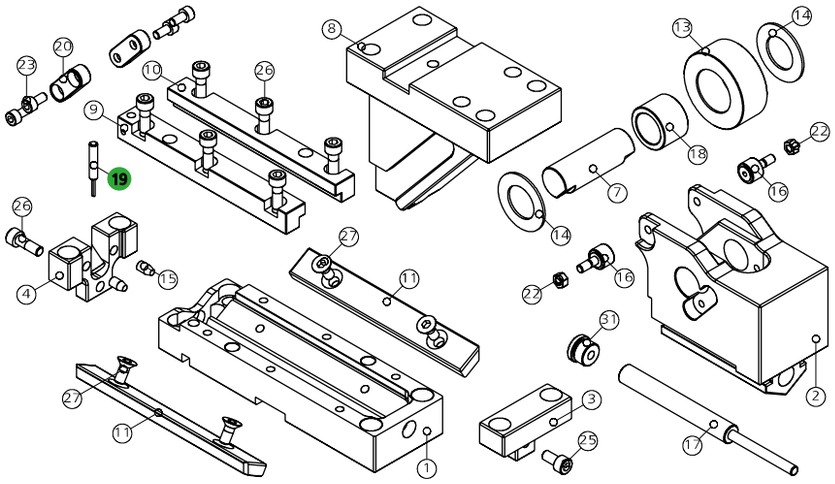
MODEL **0149.P030** INCLINATION **+10°** OPTION CODE **9003.0002**

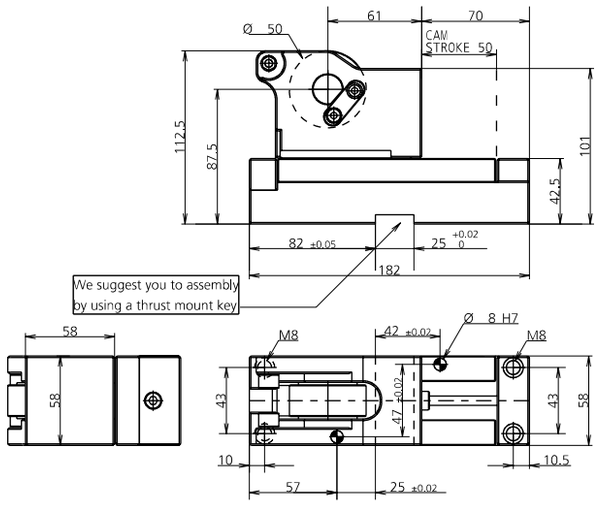
0149.P050 - **CAM ROLLER P050**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **50 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **100 daN**

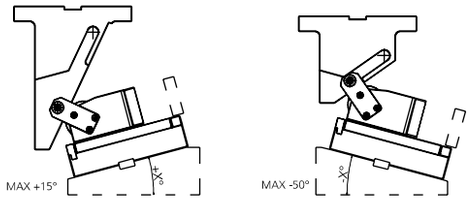
SFORZO MAX TRANCIO — **3400 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



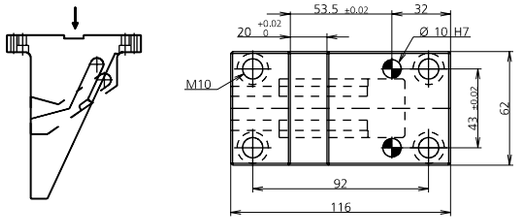


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.0050	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0000	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0000.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0000.002	PIASTRINA / PLATE / PLATTE	1
007	8005.0580.0417.200.001	PERNO / PIN / STIFT	1
008	8090.0000.0050.000	CUNEO / WEDGE / DRUCKSTÜCK 0	1*OPTION
008	8090.0000.0050.605	CUNEO / WEDGE / DRUCKSTÜCK +5	1*OPTION
008	8090.0000.0050.610	CUNEO / WEDGE / DRUCKSTÜCK +10	1*OPTION
008	8090.0000.0050.615	CUNEO / WEDGE / DRUCKSTÜCK +15	1*OPTION
008	8090.0000.0050.705	CUNEO / WEDGE / DRUCKSTÜCK -5	1*OPTION
008	8090.0000.0050.710	CUNEO / WEDGE / DRUCKSTÜCK -10	1*OPTION
008	8090.0000.0050.715	CUNEO / WEDGE / DRUCKSTÜCK -15	1*OPTION
008	8090.0000.0050.720	CUNEO / WEDGE / DRUCKSTÜCK -20	1*OPTION
008	8090.0000.0050.725	CUNEO / WEDGE / DRUCKSTÜCK -25	1*OPTION
008	8090.0000.0050.730	CUNEO / WEDGE / DRUCKSTÜCK -30	1*OPTION
008	8090.0000.0050.735	CUNEO / WEDGE / DRUCKSTÜCK -35	1*OPTION
008	8090.0000.0050.740	CUNEO / WEDGE / DRUCKSTÜCK -40	1*OPTION
008	8090.0000.0050.745	CUNEO / WEDGE / DRUCKSTÜCK -45	1*OPTION
008	8090.0000.0050.750	CUNEO / WEDGE / DRUCKSTÜCK -50	1*OPTION
009	8086.1415.0165.155.001	GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE	1
010	8086.1415.0165.155.002	GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE	1
011	8012.1440.0195.080.001	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	9000.0050.0012.001	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 / UNTERLEGSCHEIBE	2
031	8089.0160.0110.001	DISTANZIALE / SPACER / ABSTANDSHALTER	1

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜK



019 (9003) SENSORE / SENSOR / SENSOR

19 PATENT PENDING

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

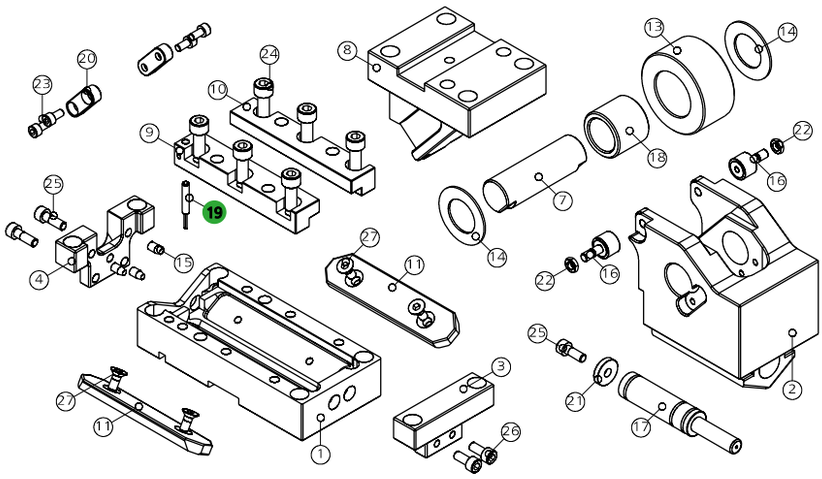
MODEL **0149.P050** INCLINATION **+10°** OPTION CODE **9003.0002**

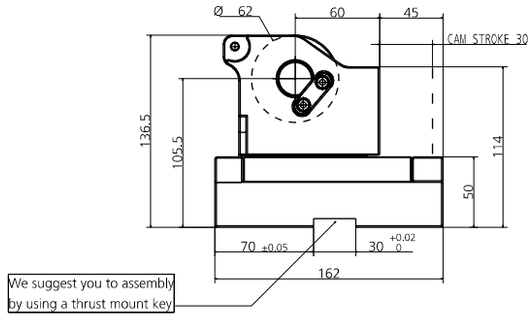
0149.P130 - **CAM ROLLER P130**

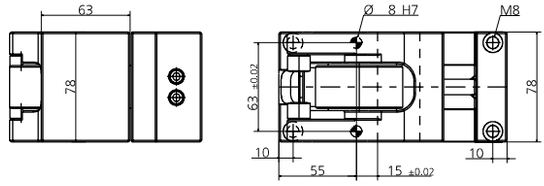
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **170 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **250 daN**

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

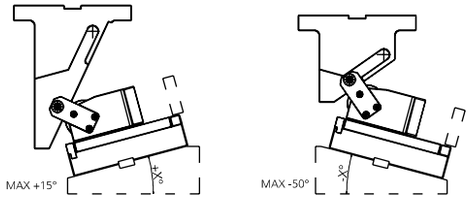




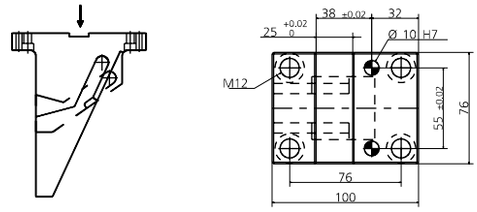


POS.	CODE	DESCRIPTION	Q.TY
001	**8000.0049.0130**	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	**8007.0049.0100**	SLITTA / SLIDER / LAGERKEIL	1
003	**8088.0049.0100.001**	PIASTRINA / PLATE / PLATTE	1
004	**8088.0049.0100.002**	PIASTRINA / PLATE / PLATTE	1
007	**8005.0780.0617.250.001**	PERNO / PIN / STIFT	1
008	**8090.0001.0030.000**	CUNEO / WEDGE / DRUCKSTÜCK 0	1*OPTION
008	**8090.0001.0030.605**	CUNEO / WEDGE / DRUCKSTÜCK +5	1*OPTION
008	**8090.0001.0030.610**	CUNEO / WEDGE / DRUCKSTÜCK +10	1*OPTION
008	**8090.0001.0030.615**	CUNEO / WEDGE / DRUCKSTÜCK +15	1*OPTION
008	**8090.0001.0030.705**	CUNEO / WEDGE / DRUCKSTÜCK -5	1*OPTION
008	**8090.0001.0030.710**	CUNEO / WEDGE / DRUCKSTÜCK -10	1*OPTION
008	**8090.0001.0030.715**	CUNEO / WEDGE / DRUCKSTÜCK -15	1*OPTION
008	**8090.0001.0030.720**	CUNEO / WEDGE / DRUCKSTÜCK -20	1*OPTION
008	**8090.0001.0030.725**	CUNEO / WEDGE / DRUCKSTÜCK -25	1*OPTION
008	**8090.0001.0030.730**	CUNEO / WEDGE / DRUCKSTÜCK -30	1*OPTION
008	**8090.0001.0030.735**	CUNEO / WEDGE / DRUCKSTÜCK -35	1*OPTION
008	**8090.0001.0030.740**	CUNEO / WEDGE / DRUCKSTÜCK -40	1*OPTION
008	**8090.0001.0030.745**	CUNEO / WEDGE / DRUCKSTÜCK -45	1*OPTION
008	**8090.0001.0030.750**	CUNEO / WEDGE / DRUCKSTÜCK -50	1*OPTION
009	**8086.1190.0235.180.001**	GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE	1
010	**8086.1190.0235.180.002**	GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE	1
011	**8012.1200.0270.080.001**	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	**9000.0038.0019.007**	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
021	**8089.0198.0040.001**	DISTANZIALE / SPACER / ABSTANDSHALTER	1
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	3
026	**9007.06.014.129.1.4762**	VITE / SCREW / SCHRAUBE M6X14	2
027	**9007.06.014.129.1.5933**	VITE / SCREW / SCHRAUBE M6X14	4

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜK



019 (9003) SENSORE / SENSOR / SENSOR

19 PATENT PENDING

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

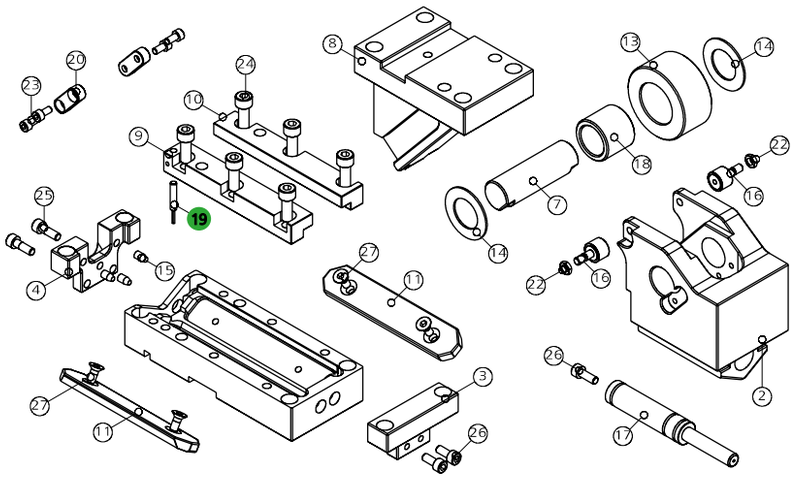
MODEL **0149.P130** INCLINATION **+10°** OPTION CODE **9003.0002**

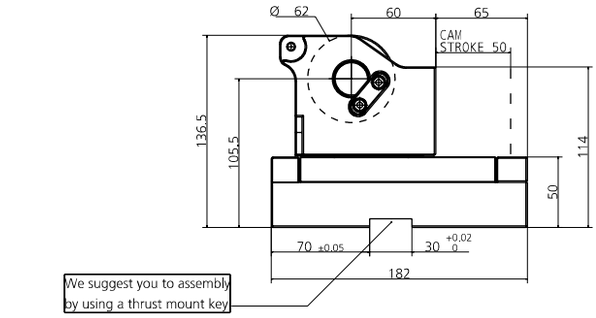
0149.P150 - **CAM ROLLER P150**

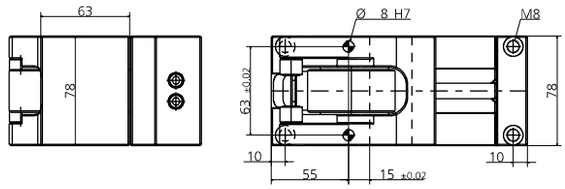
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **170 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **340 daN**

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

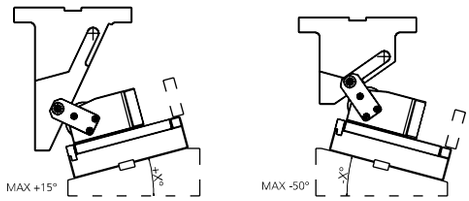




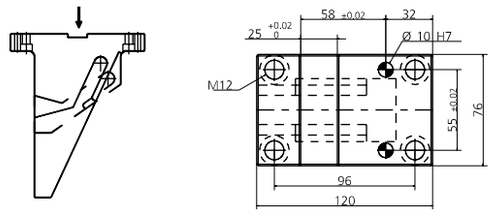


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.0150	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0100	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0100.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0100.002	PIASTRINA / PLATE / PLATTE	1
007	8005.0780.0617.250.001	PERNO / PIN / STIFT	1
008	8090.0001.0050.000	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 / DRUCKSTÜK



019 (9003) SENSORE / SENSOR / SENSOR

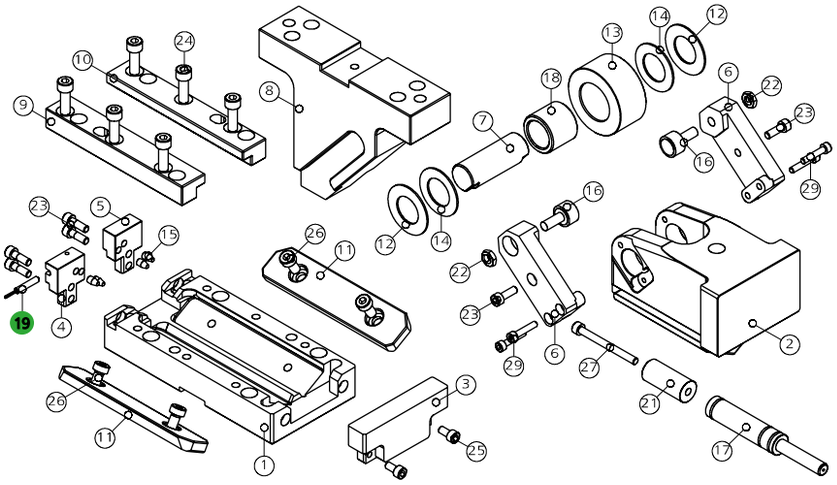
19 PATENT PENDING

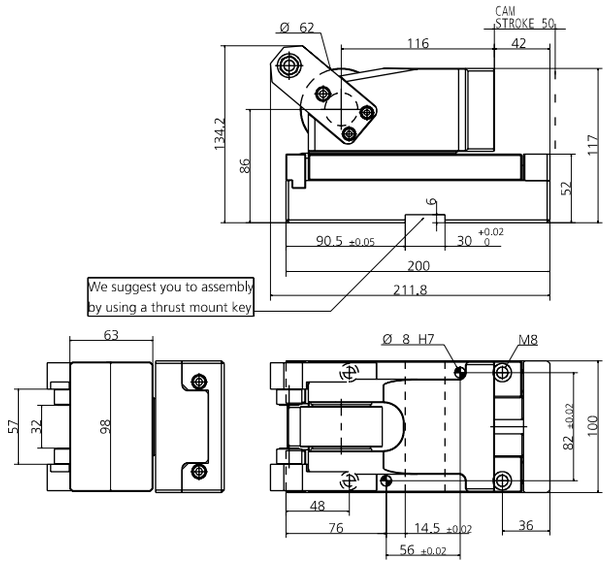
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

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

0149.P250 - **CAM ROLLER P250**

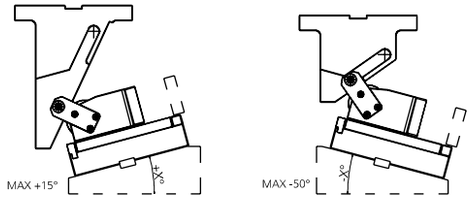
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION	**170 daN**	SFORZO MAX TRANCIO CUTTING MAX FORCE MAXIMALE SCHNITTKRAFT EFFORT MAXI DÉCOUPE	**7600 daN**
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION	**340 daN**		



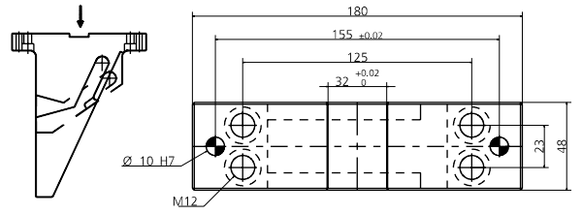


POS.	CODE	DESCRIPTION	Q.TY
001	**8000.0049.0250**	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	**8007.0049.0200**	SLITTA / SLIDER / LAGERKEIL	1
003	**8088.0049.0200.001**	PIASTRINA / PLATE / PLATTE	1
004	**8088.0049.0200.002**	PIASTRINA / PLATE / PLATTE	1
005	**8088.0049.0200.003**	PIASTRINA / PLATE / 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 / 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
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 / DRUCKSTÜK



019 (9003) SENSORE / SENSOR / SENSOR

19 PATENT PENDING

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

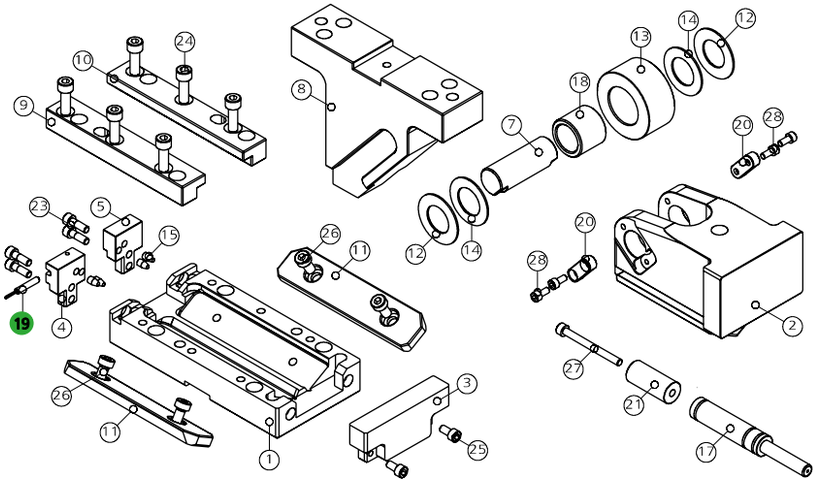
MODEL **0149.P250** INCLINATION **+10°** OPTION CODE **9003.0002**

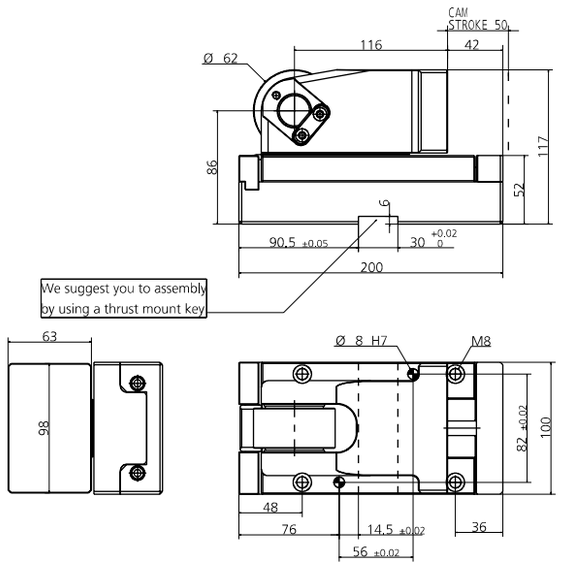
0149.K250 - **CAM ROLLER K250**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **170 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **340 daN**

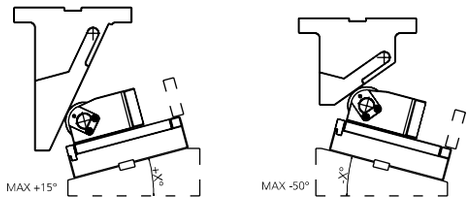
SFORZO MAX TRANCIO
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE — **7600 daN**



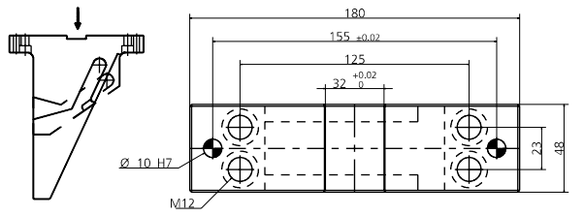


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.0250	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0200	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0200.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0200.002	PIASTRINA / PLATE / PLATTE	1
005	8088.0049.0200.003	PIASTRINA / PLATE / PLATTE	1
007	8005.0670.0517.250.001	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 / 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
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 / DRUCKSTÜK



019 (9003) SENSORE / SENSOR / SENSOR

19 PATENT PENDING

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

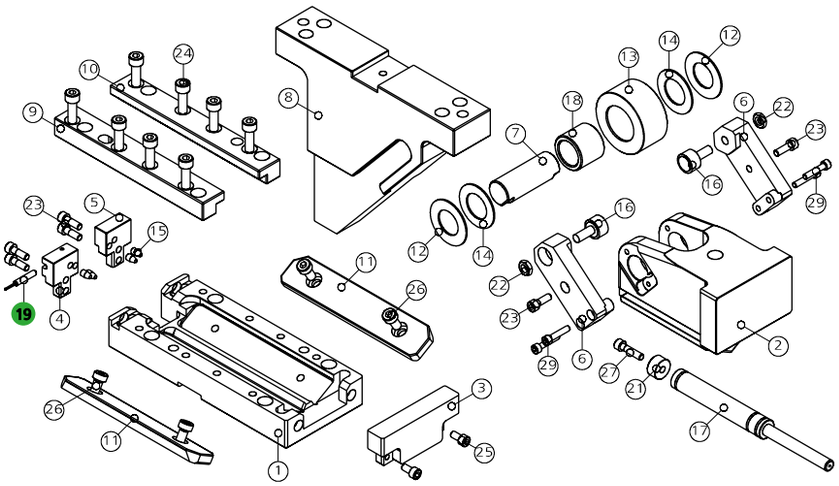
MODEL **0149.K250** INCLINATION **+10°** OPTION CODE **9003.0002**

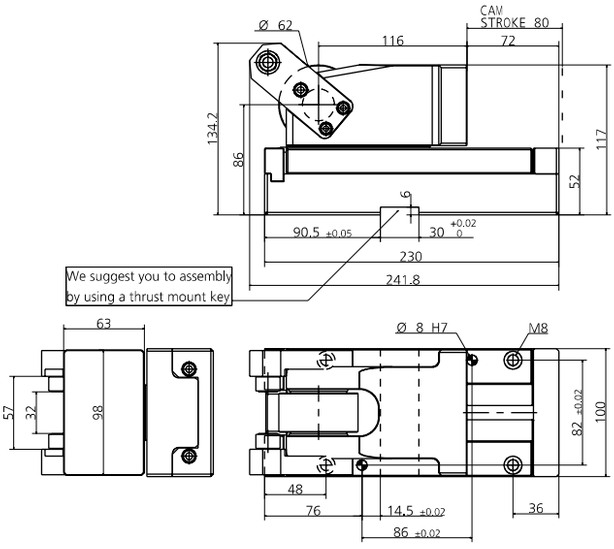
0149.P280 - **CAM ROLLER P280**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **170 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **340 daN**

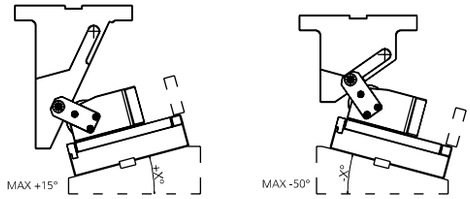
SFORZO MAX TRANCIO
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE — **7600 daN**



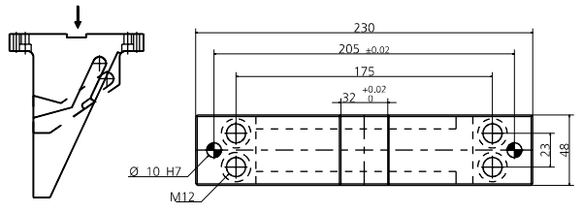


POS.	CODE	DESCRIPTION	Q.TY
001	**8000.0049.0280**	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	**8007.0049.0200**	SLITTA / SLIDER / LAGERKEIL	1
003	**8088.0049.0200.001**	PIASTRINA / PLATE / PLATTE	1
004	**8088.0049.0200.002**	PIASTRINA / PLATE / PLATTE	1
005	**8088.0049.0200.003**	PIASTRINA / PLATE / 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 / 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
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 / DRUCKSTÜK



019 (9003) SENSORE / SENSOR / SENSOR

19 PATENT PENDING

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

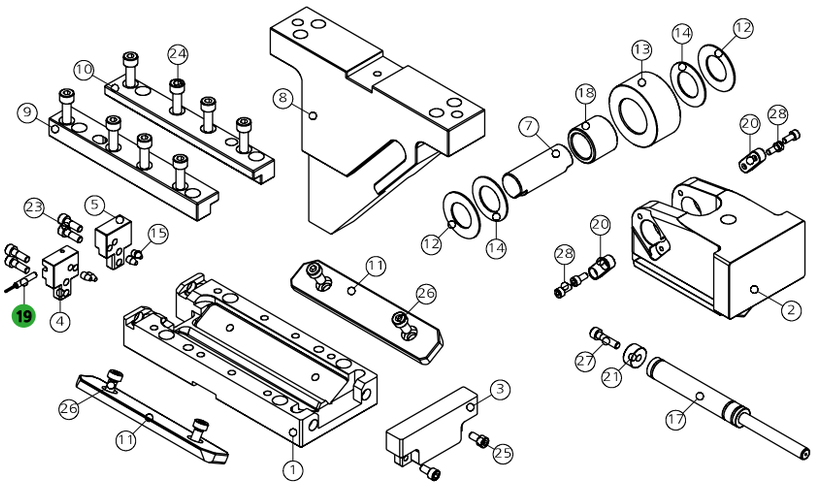
MODEL **0149.P280** INCLINATION **+10°** OPTION CODE **9003.0002**

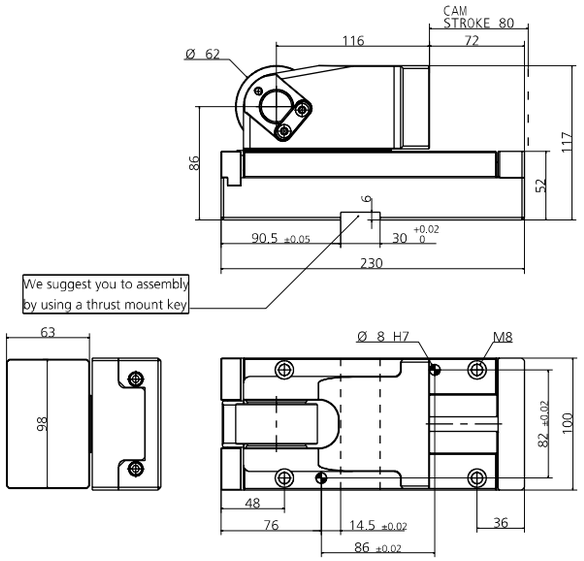
0149.K280 - **CAM ROLLER K280**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **170 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **340 daN**

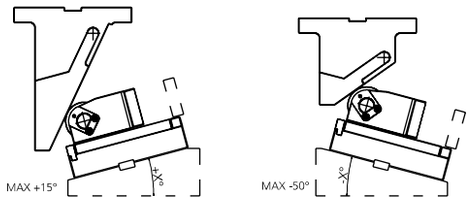
SFORZO MAX TRANCIO
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE — **7600 daN**



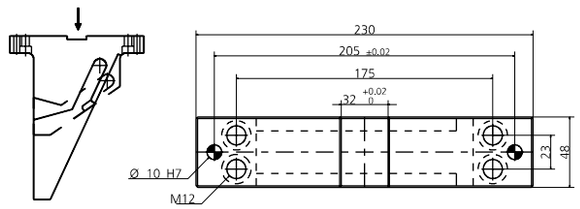


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.0280	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0200	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0200.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0200.002	PIASTRINA / PLATE / PLATTE	1
005	8088.0049.0200.003	PIASTRINA / PLATE / PLATTE	1
007	8005.0670.0517.250.001	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 / 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
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 / DRUCKSTÜK



019 (9003) SENSORE / SENSOR / SENSOR

19 PATENT PENDING

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

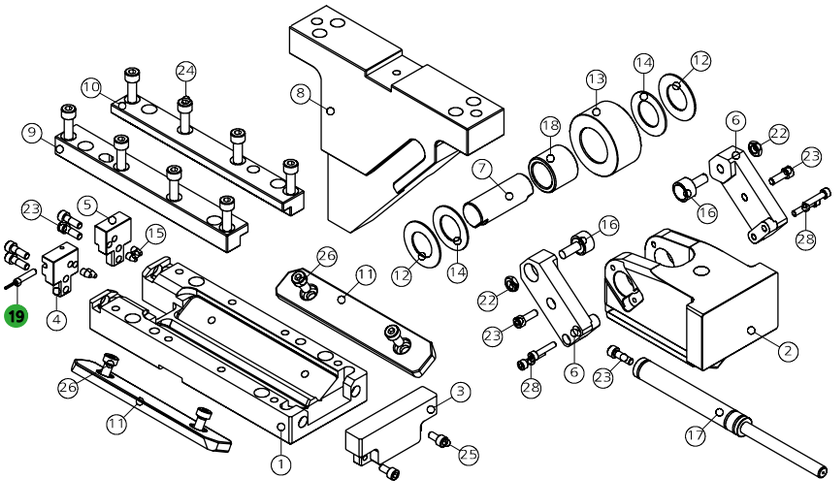
MODEL **0149.K280** INCLINATION **+10°** OPTION CODE **9003.0002**

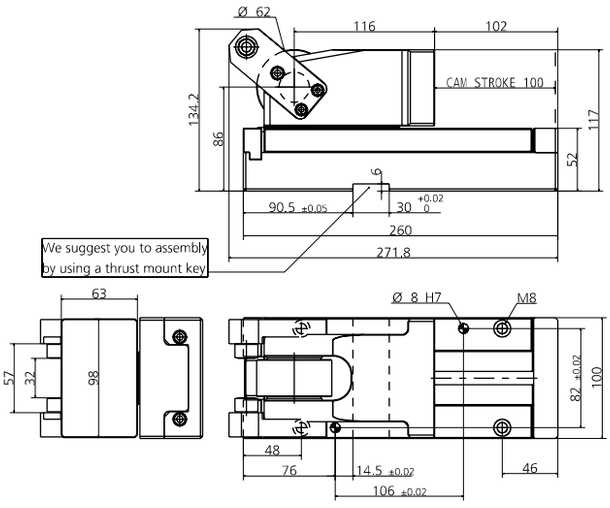
0149.P2A0 - **CAM ROLLER P2A0**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **170 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **360 daN**

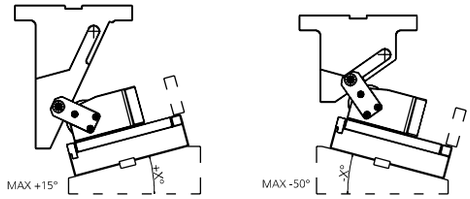
SFORZO MAX TRANCIO — **7600 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



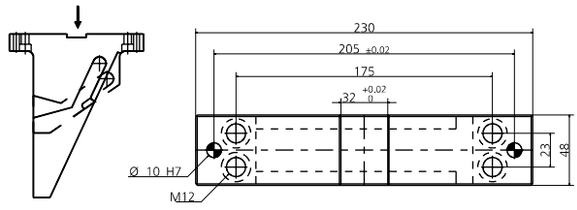


POS.	CODE	DESCRIPTION	Q.TY
001	**8000.0049.02A0**	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	**8007.0049.0200**	SLITTA / SLIDER / LAGERKEIL	1
003	**8088.0049.0200.001**	PIASTRINA / PLATE / PLATTE	1
004	**8088.0049.0200.002**	PIASTRINA / PLATE / PLATTE	1
005	**8088.0049.0200.003**	PIASTRINA / PLATE / PLATTE	1
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	**8086.2220.0280.200.001**	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 / 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
016	**8005.0320.0120.190.001**	PERNO / PIN / STIFT	2
017	**9000.0100.0019.001**	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
022	**9014.08.005.008.1.4035**	DADO / NUT / MUTTER M8	2
023	**9007.06.020.129.1.4762**	VITE / SCREW / SCHRAUBE M6X20	7
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
028	**9007.05.025.129.1.4762**	VITE / SCREW / SCHRAUBE M5X25	4

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜK



019 (9003) SENSORE / SENSOR / SENSOR

19 PATENT PENDING

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

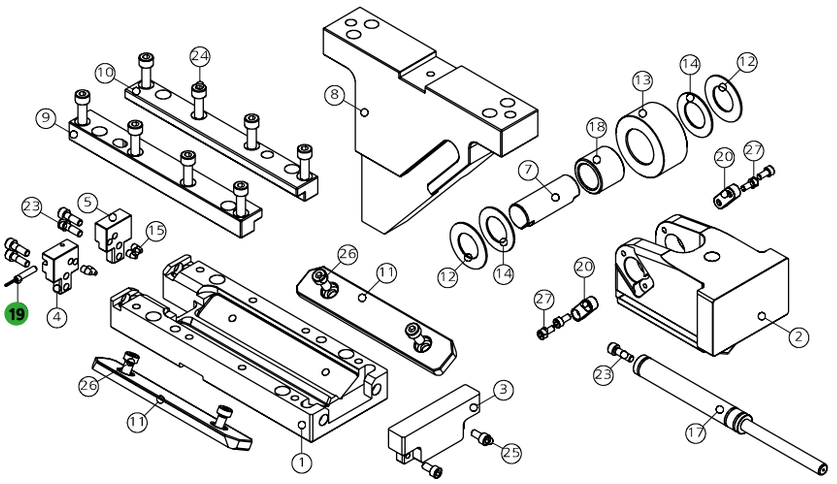
MODEL **0149.P2A0** INCLINATION **+10°** OPTION CODE **9003.0002**

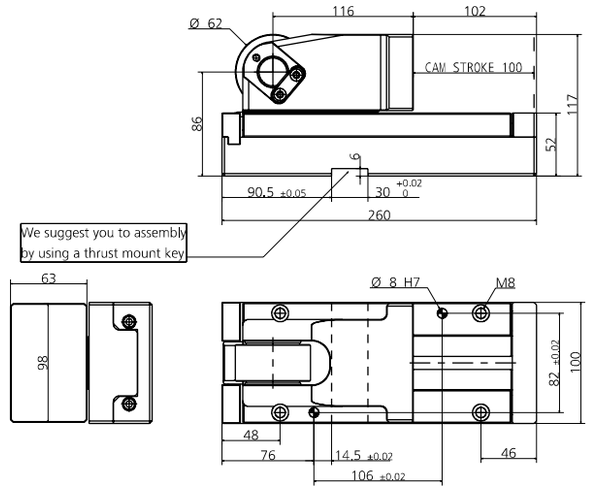
0149.K2A0 - **CAM ROLLER K2A0**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **170 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **360 daN**

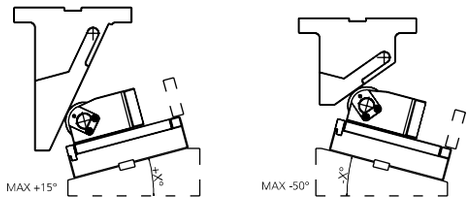
SFORZO MAX TRANCIO
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE — **7600 daN**



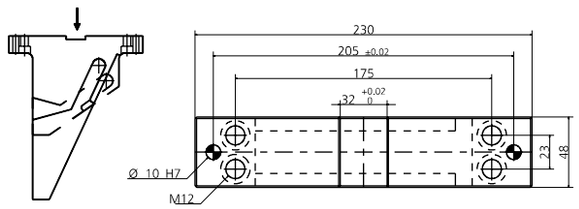


POS.	CODE	DESCRIPTION	Q.TY
001	**8000.0049.02A0**	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	**8007.0049.0200**	SLITTA / SLIDER / LAGERKEIL	1
003	**8088.0049.0200.001**	PIASTRINA / PLATE / PLATTE	1
004	**8088.0049.0200.002**	PIASTRINA / PLATE / PLATTE	1
005	**8088.0049.0200.003**	PIASTRINA / PLATE / 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 / 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	**9000.0100.0019.001**	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
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 / DRUCKSTÜK



019 (9003) SENSORE / SENSOR / SENSOR

19 PATENT PENDING

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

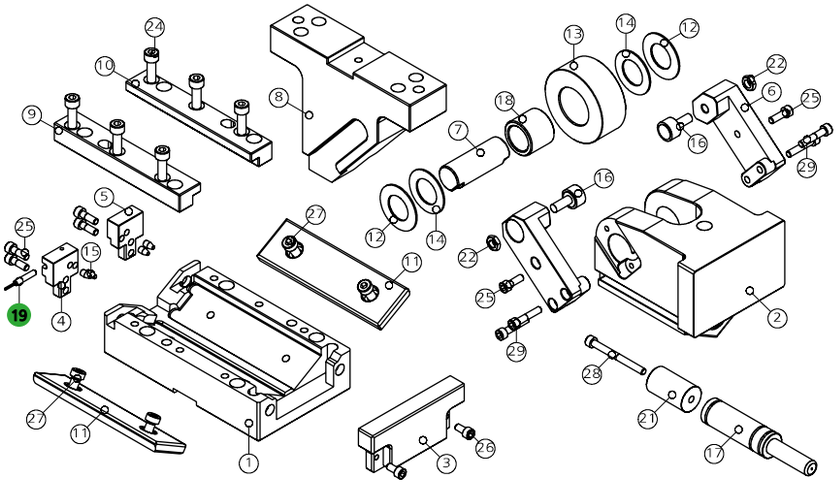
MODEL **0149.K2A0** INCLINATION **+10°** OPTION CODE **9003.0002**

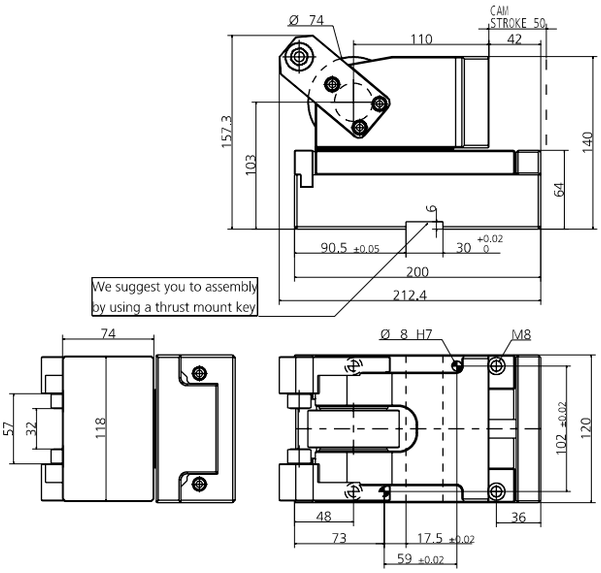
0149.P350 - **CAM ROLLER P350**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **320 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **636 daN**

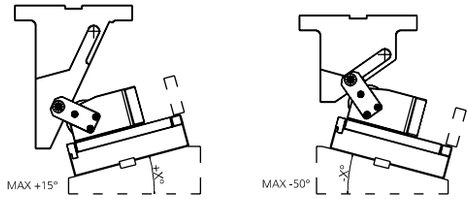
SFORZO MAX TRANCIO — **14200 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



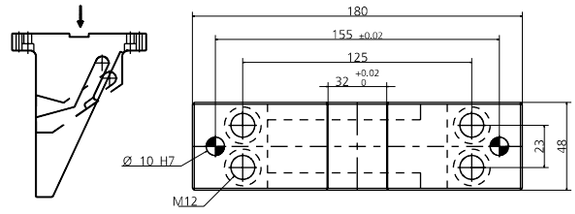


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.0350	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0300	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0300.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0300.002	PIASTRINA / PLATE / PLATTE	1
005	8088.0049.0300.003	PIASTRINA / PLATE / PLATTE	1
006	8009.0049.0300	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 / 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
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 / DRUCKSTÜK



019 (9003) SENSORE / SENSOR / SENSOR

19 PATENT PENDING

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

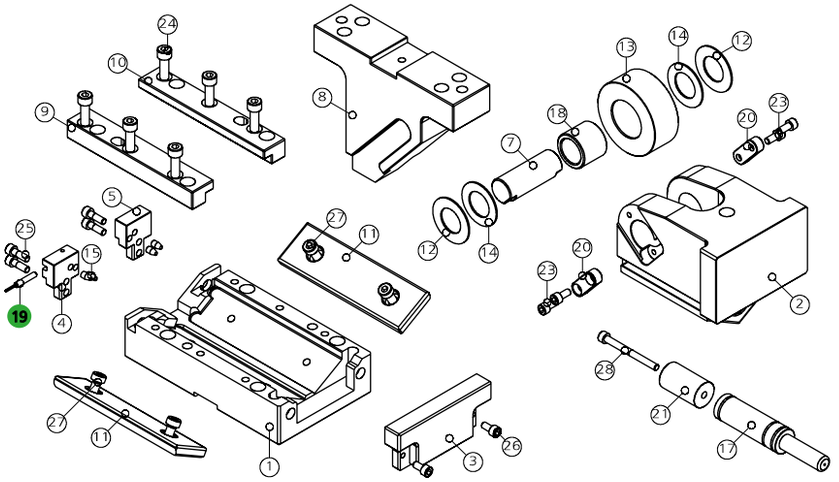
MODEL **0149.P350** INCLINATION **+10°** OPTION CODE **9003.0002**

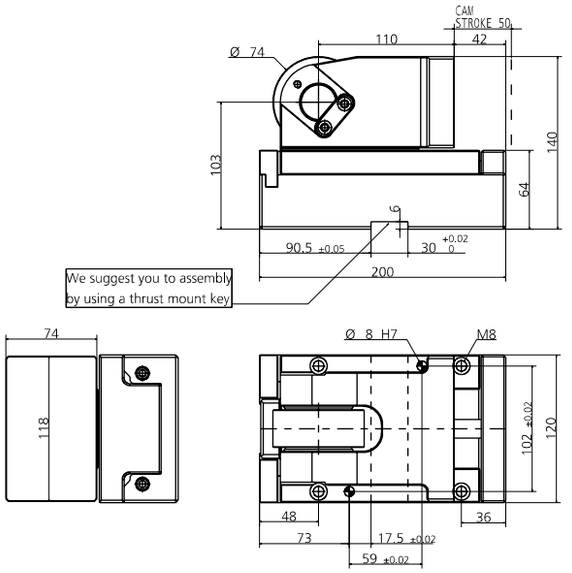
0149.K350 - **CAM ROLLER K350**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **320 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **636 daN**

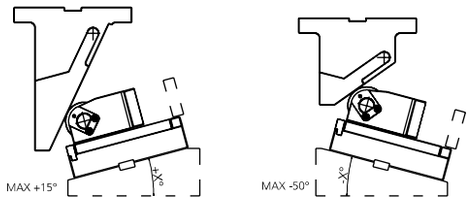
SFORZO MAX TRANCIO
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE — **14200 daN**



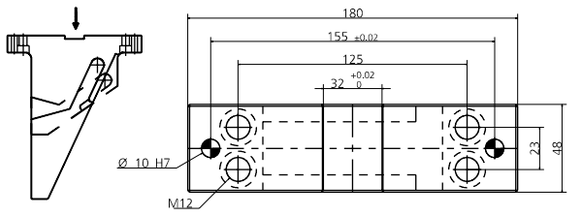


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.0350	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0300	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0300.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0300.002	PIASTRINA / PLATE / PLATTE	1
005	8088.0049.0300.003	PIASTRINA / PLATE / PLATTE	1
007	8005.0860.0677.300.001	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 / 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	8089.0258.0450.001	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 / DRUCKSTÜK



019 (9003) SENSORE / SENSOR / SENSOR

19 PATENT PENDING

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

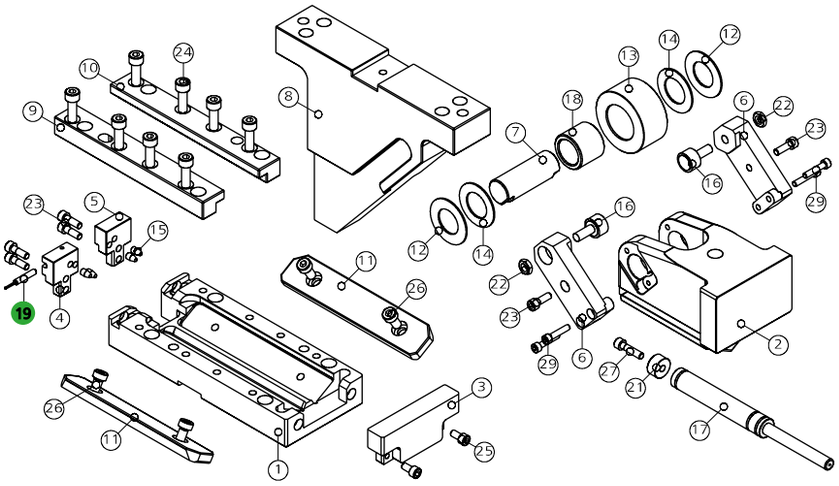
MODEL **0149.K350** INCLINATION **+10°** OPTION CODE **9003.0002**

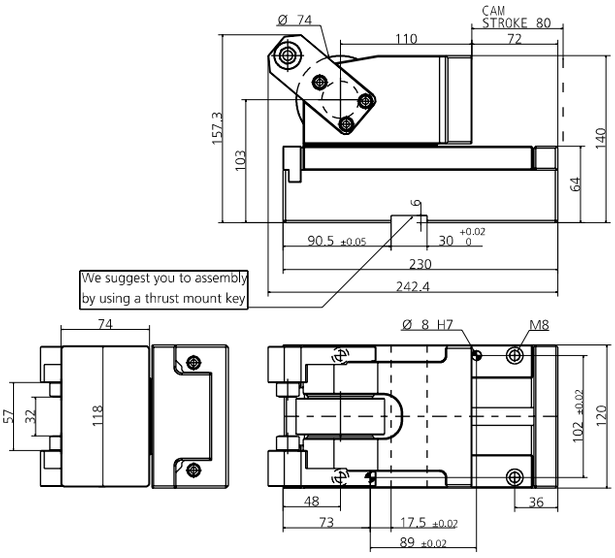
0149.P380 - **CAM ROLLER P380**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **320 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **643 daN**

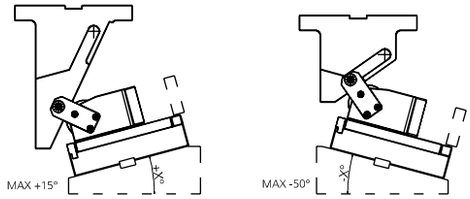
SFORZO MAX TRANCIO — **14200 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



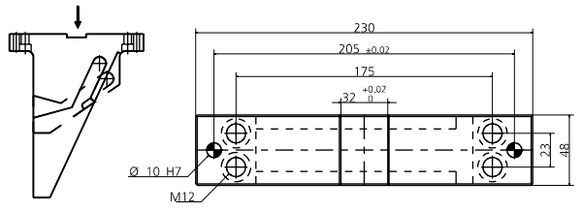


POS.	CODE	DESCRIPTION	Q.TY
001	**8000.0049.0380**	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	**8007.0049.0300**	SLITTA / SLIDER / LAGERKEIL	1
003	**8088.0049.0300.001**	PIASTRINA / PLATE / PLATTE	1
004	**8088.0049.0300.002**	PIASTRINA / PLATE / PLATTE	1
005	**8088.0049.0300.003**	PIASTRINA / PLATE / 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 / 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
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 / DRUCKSTÜK



019 (9003) SENSORE / SENSOR / SENSOR

19 PATENT PENDING

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

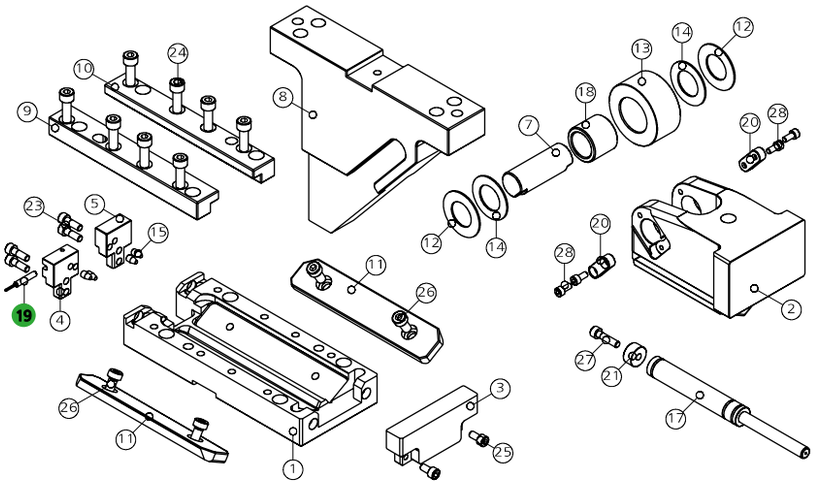
MODEL **0149.P380** INCLINATION **+10°** OPTION CODE **9003.0002**

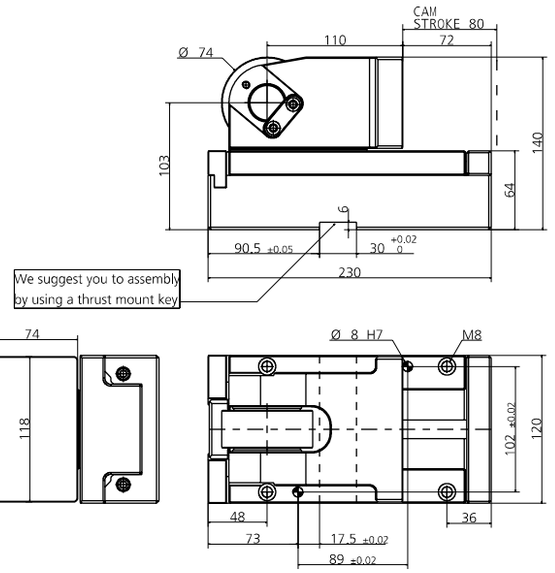
0149.K380 - **CAM ROLLER K380**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **320 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **643 daN**

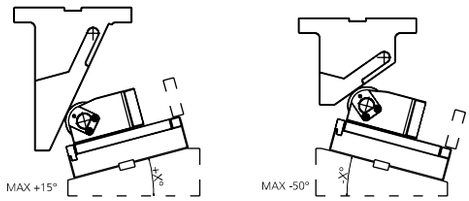
SFORZO MAX TRANCIO
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE — **14200 daN**



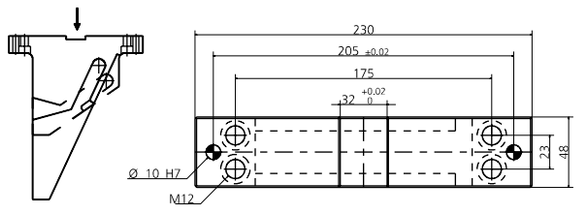


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.0380	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0300	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0300.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0300.002	PIASTRINA / PLATE / PLATTE	1
005	8088.0049.0300.003	PIASTRINA / PLATE / PLATTE	1
007	8005.0860.0677.300.001	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 / DRUCKSTÜK



019 (9003) SENSORE / SENSOR / SENSOR

19 PATENT PENDING

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

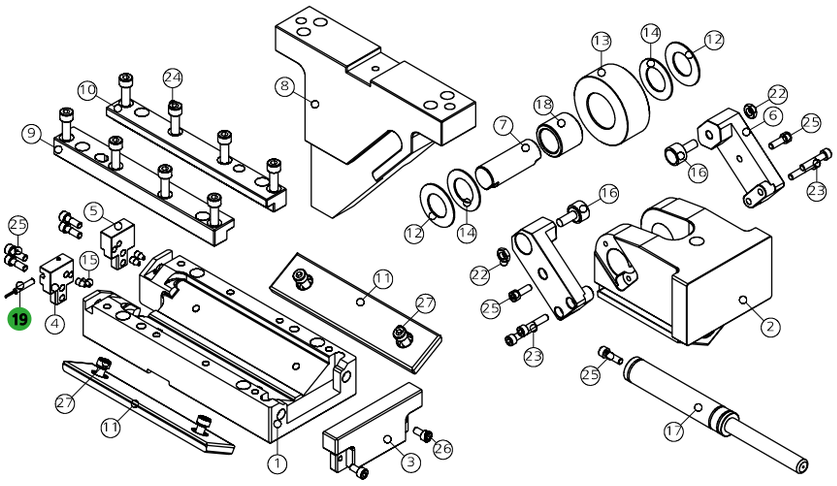
MODEL **0149.K380** INCLINATION **+10°** OPTION CODE **9003.0002**

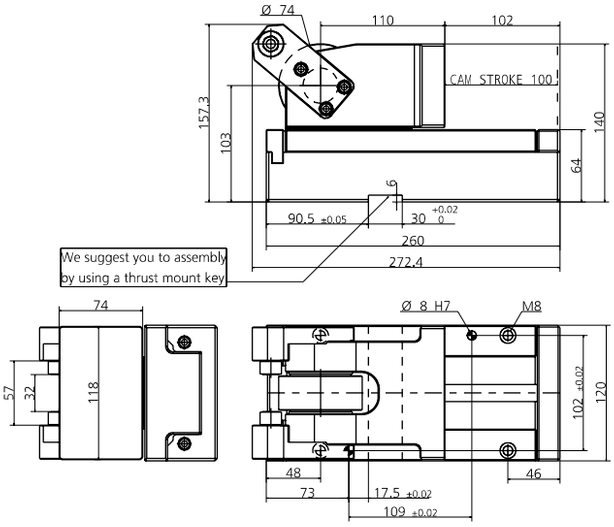
0149.P3A0 - **CAM ROLLER P3A0**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **320 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **646 daN**

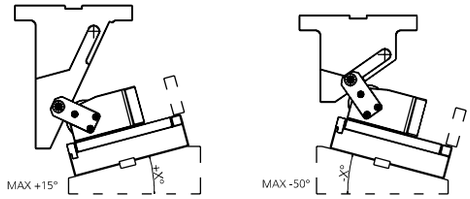
SFORZO MAX TRANCIO — **14200 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



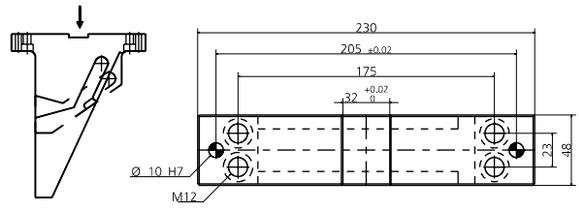


POS.	CODE	DESCRIPTION	Q.TY
001	**8000.0049.03A0**	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	**8007.0049.0300**	SLITTA / SLIDER / LAGERKEIL	1
003	**8088.0049.0300.001**	PIASTRINA / PLATE / PLATTE	1
004	**8088.0049.0300.002**	PIASTRINA / PLATE / PLATTE	1
005	**8088.0049.0300.003**	PIASTRINA / PLATE / 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 / 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
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 / DRUCKSTÜK



019 (9003) SENSORE / SENSOR / SENSOR

19 PATENT PENDING

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

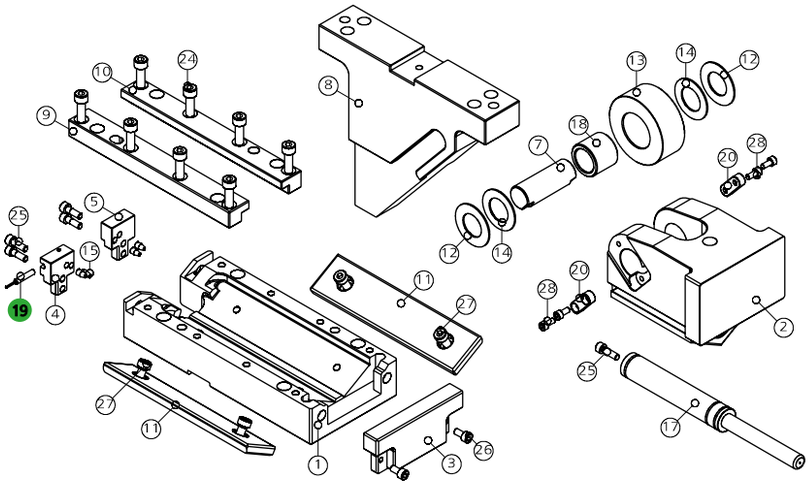
MODEL **0149.P3A0** INCLINATION **+10°** OPTION CODE **9003.0002**

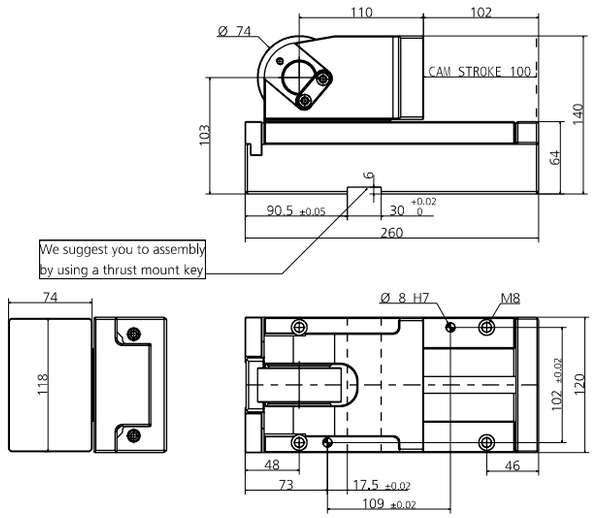
0149.K3A0 - **CAM ROLLER K3A0**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **320 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **646 daN**

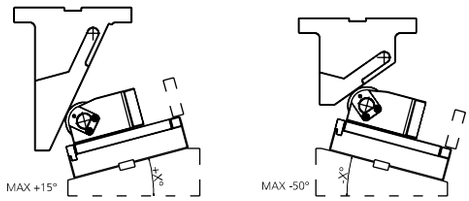
SFORZO MAX TRANCIO
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE — **14200 daN**



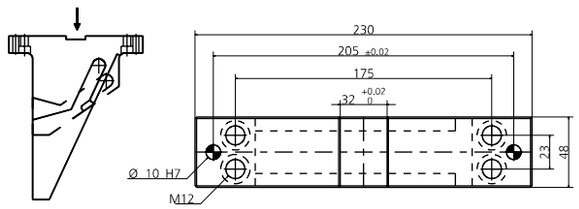


POS.	CODE	DESCRIPTION	Q.TY
001	**8000.0049.03A0**	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	**8007.0049.0300**	SLITTA / SLIDER / LAGERKEIL	1
003	**8088.0049.0300.001**	PIASTRINA / PLATE / PLATTE	1
004	**8088.0049.0300.002**	PIASTRINA / PLATE / PLATTE	1
005	**8088.0049.0300.003**	PIASTRINA / PLATE / 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 / 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
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 / DRUCKSTÜK



019 (9003) SENSORE / SENSOR / SENSOR

19 PATENT PENDING

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

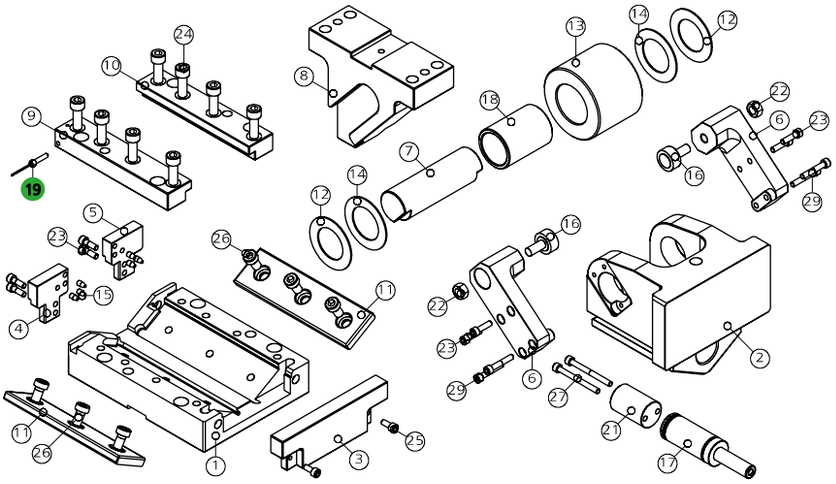
MODEL **0149.K3A0** INCLINATION **+10°** OPTION CODE **9003.0002**

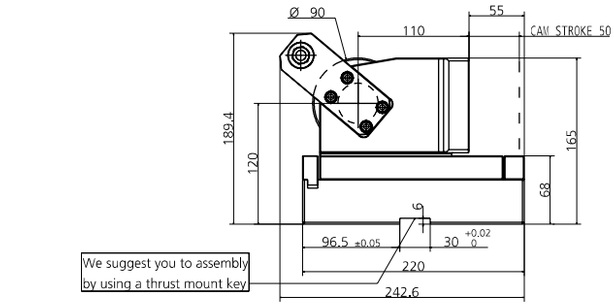
0149.P450 - **CAM ROLLER P450**

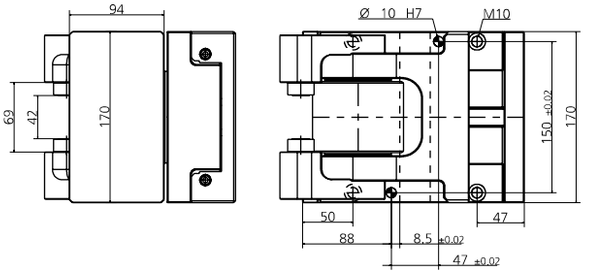
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **350 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **645 daN**

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

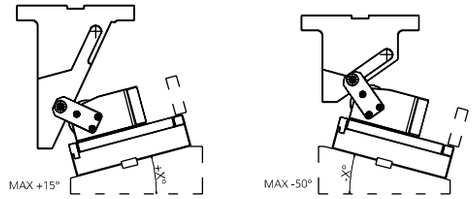




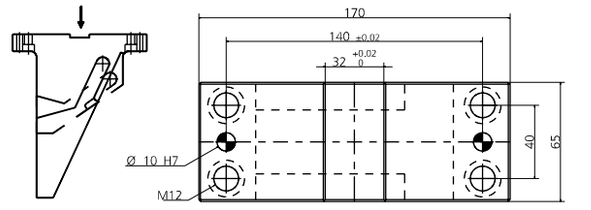


POS.	CODE	DESCRIPTION	Q.TY
001	**8000.0049.0450**	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	**8007.0049.0400**	SLITTA / SLIDER / LAGERKEIL	1
003	**8088.0049.0400.001**	PIASTRINA / PLATE / PLATTE	1
004	**8088.0049.0400.002**	PIASTRINA / PLATE / PLATTE	1
005	**8088.0049.0400.003**	PIASTRINA / PLATE / 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 / 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	**9000.0050.0032.001**	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

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜK



019 (9003) SENSORE / SENSOR / SENSOR

19 PATENT PENDING

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

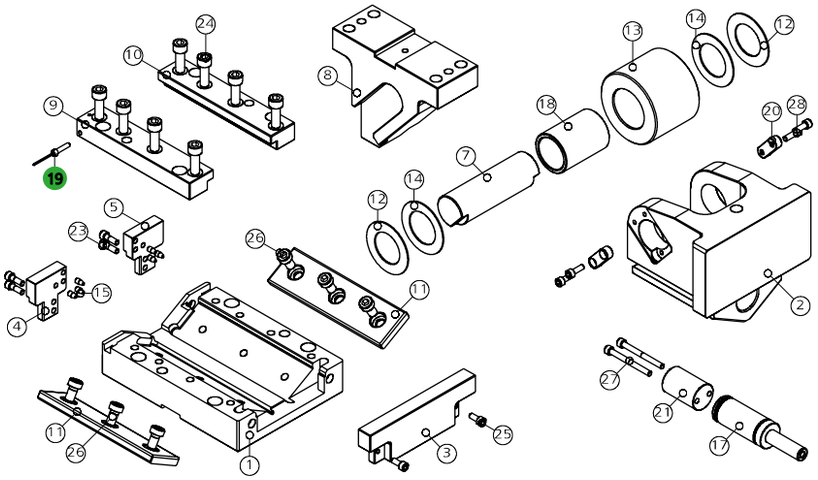
MODEL **0149.P450** INCLINATION **+10°** OPTION CODE **9003.0002**

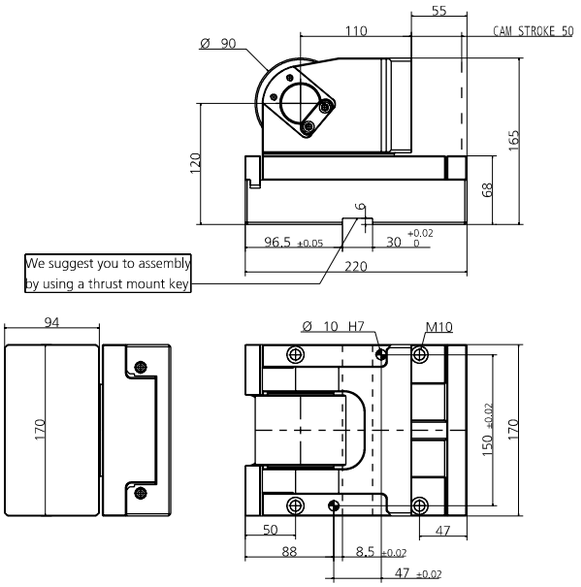
0149.K450 - **CAM ROLLER K450**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **350 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **645 daN**

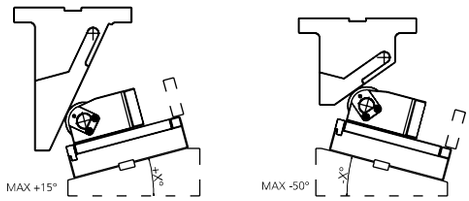
SFORZO MAX TRANCIO — **16600 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



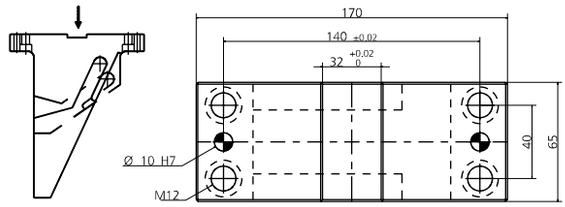


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.0450	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0400	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0400.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0400.002	PIASTRINA / PLATE / PLATTE	1
005	8088.0049.0400.003	PIASTRINA / PLATE / PLATTE	1
007	8005.1250.1067.400.001	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 / 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
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
020	8087.0400.0140.090.001	CHIAVETTA / KEY / SCHLÜSSEL	2
021	8089.0328.0500.001	DISTANZIALE / SPACER / ABSTANDSHALTER	1
023	9007.06.020.129.1.4762	VITE / SCREW / SCHRAUBE M6X20	4
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
028	9007.06.016.129.1.4762	VITE / SCREW / SCHRAUBE M6X16	4

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜK



019 (9003) SENSORE / SENSOR / SENSOR

19 PATENT PENDING

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

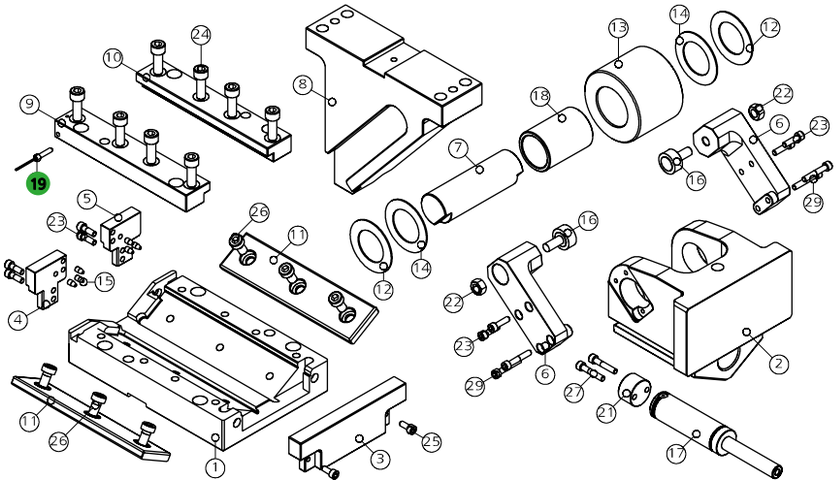
MODEL **0149.K450** INCLINATION **+10°** OPTION CODE **9003.0002**

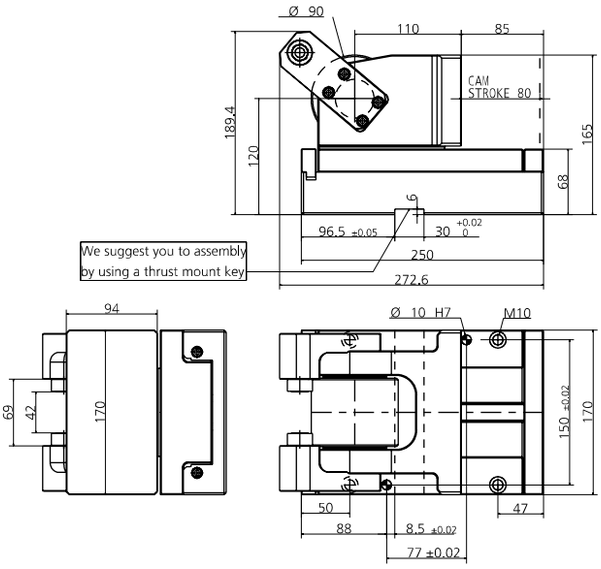
0149.P480 - **CAM ROLLER P480**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **350 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **657 daN**

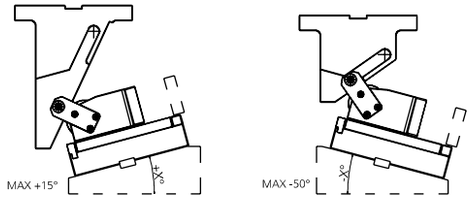
SFORZO MAX TRANCIO — **16600 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



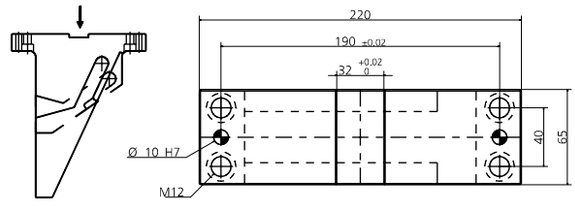


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.0480	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0400	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0400.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0400.002	PIASTRINA / PLATE / PLATTE	1
005	8088.0049.0400.003	PIASTRINA / PLATE / PLATTE	1
006	8009.0049.0400	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

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜK



019 (9003) SENSORE / SENSOR / SENSOR

19 PATENT PENDING

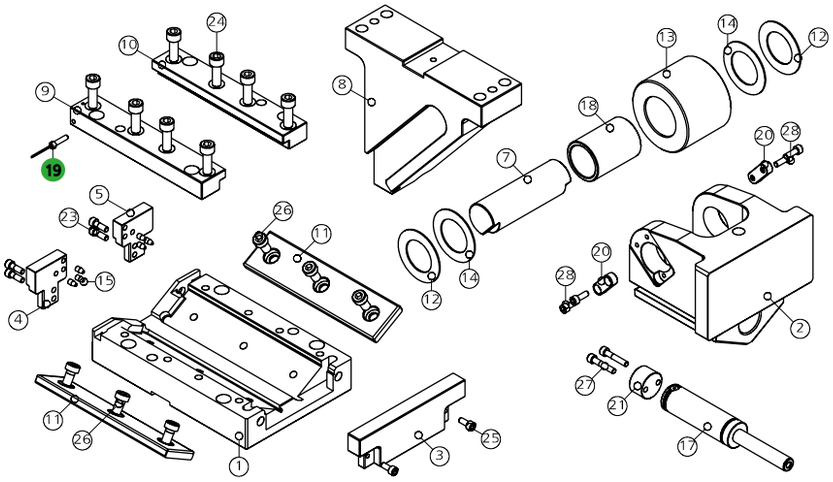
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

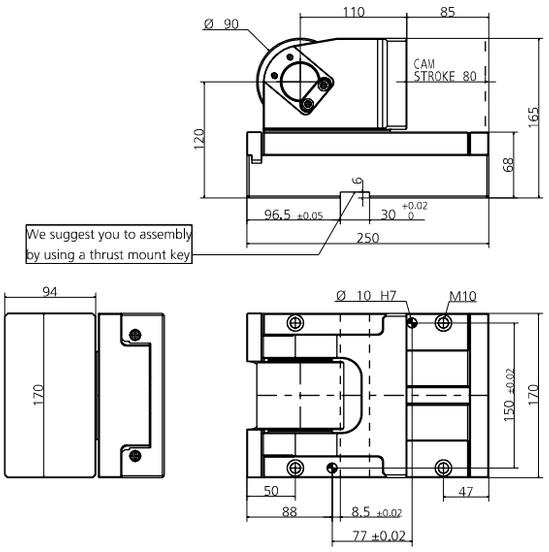
MODEL **0149.P480** INCLINATION **+10°** OPTION CODE **9003.0002**

0149.K480 - **CAM ROLLER K480**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE — **350 daN**
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **657 daN**
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION

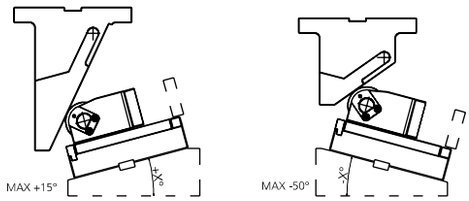
SFORZO MAX TRANCIO — **16600 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



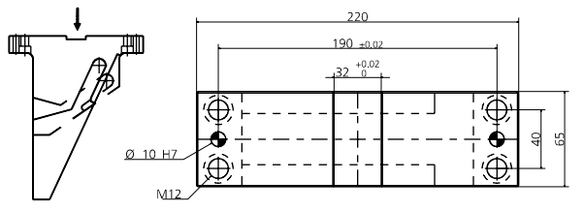


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.0480	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0400	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0400.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0400.002	PIASTRINA / PLATE / PLATTE	1
005	8088.0049.0400.003	PIASTRINA / PLATE / PLATTE	1
007	8005.1250.1067.400.001	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
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
020	8087.0400.0140.090.001	CHIAVETTA / KEY / SCHLÜSSEL	2
021	8089.0328.0200.001	DISTANZIALE / SPACER / ABSTANDSHALTER	1
023	9007.06.020.129.1.4762	VITE / SCREW / SCHRAUBE M6X20	4
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
028	9007.06.016.129.1.4762	VITE / SCREW / SCHRAUBE M6X16	4

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜK



019 (9003) SENSORE / SENSOR / SENSOR

19 PATENT PENDING

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

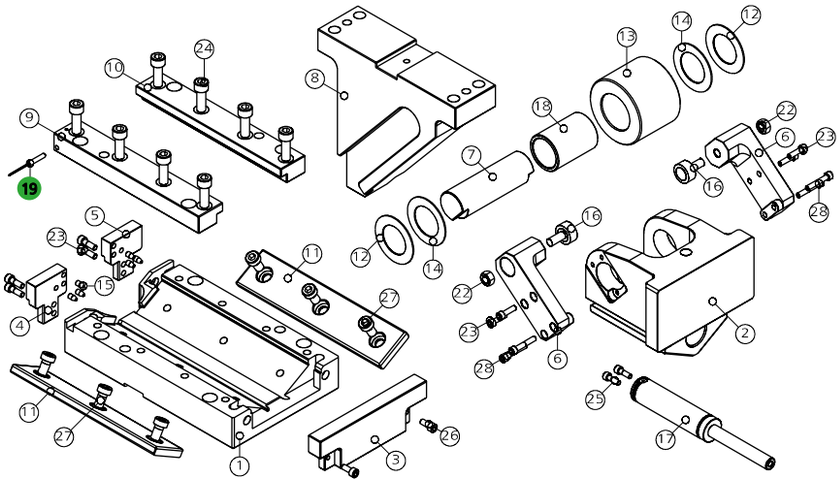
MODEL **0149.K480** INCLINATION **+10°** OPTION CODE **9003.0002**

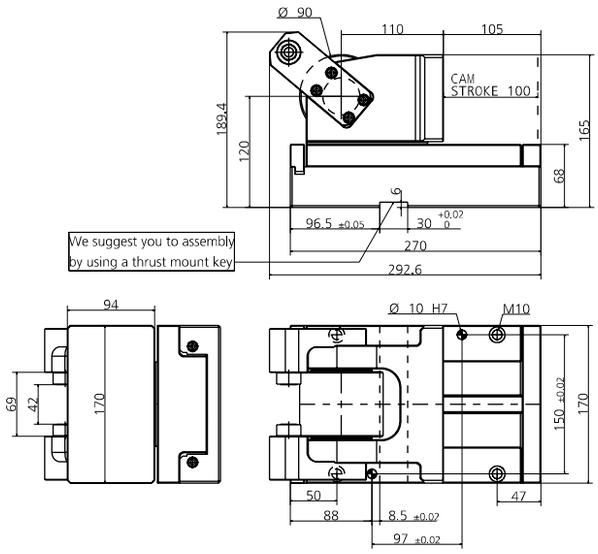
0149.P4A0 - **CAM ROLLER P4A0**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **350 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **661 daN**

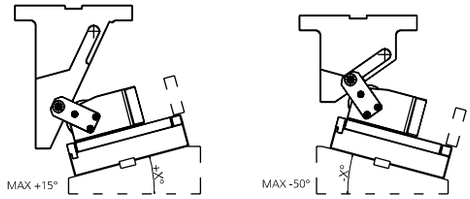
SFORZO MAX TRANCIO — **16600 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



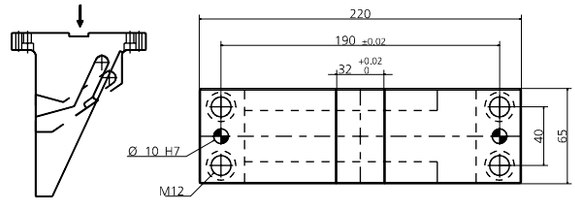


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.04A0	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0400	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0400.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0400.002	PIASTRINA / PLATE / PLATTE	1
005	8088.0049.0400.003	PIASTRINA / PLATE / PLATTE	1
006	8009.0049.0400	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 / 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	9000.0100.0032.001	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 / DRUCKSTÜK



019 (9003) SENSORE / SENSOR / SENSOR

19 PATENT PENDING

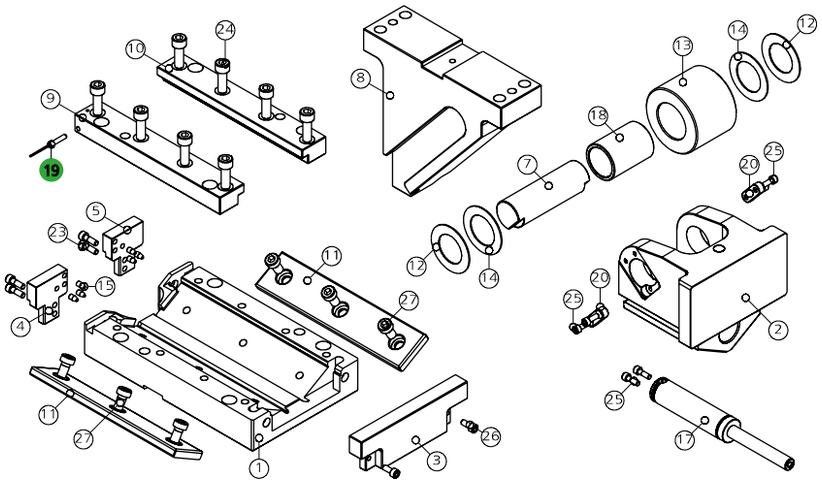
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

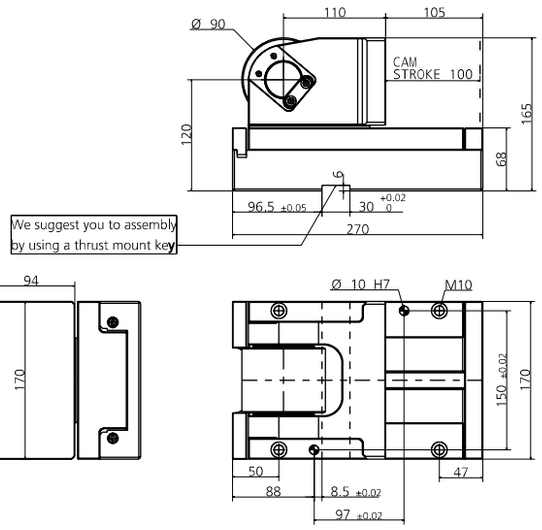
MODEL **0149.P4A0** INCLINATION **+10°** OPTION CODE **9003.0002**

0149.K4A0 - **CAM ROLLER K4A0**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **350 daN**
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION **661 daN**
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION

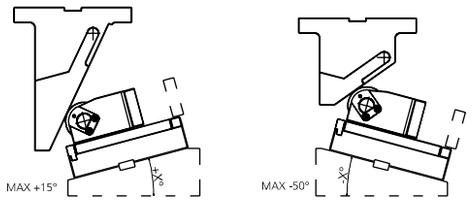
SFORZO MAX TRANCIO **16600 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



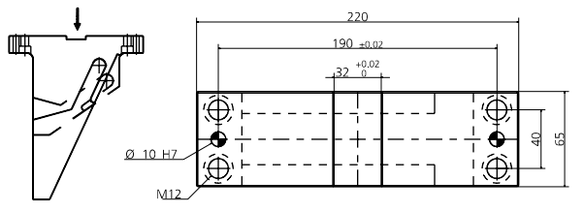


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.04A0	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0400	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0400.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0400.002	PIASTRINA / PLATE / PLATTE	1
005	8088.0049.0400.003	PIASTRINA / PLATE / PLATTE	1
007	8005.1250.1067.400.001	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 / 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
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
020	8087.0400.0140.090.001	CHIAVETTA / KEY / SCHLÜSSEL	2
023	9007.06.020.129.1.4762	VITE / SCREW / SCHRAUBE M6X20	4
024	9007.10.030.129.1.4762	VITE / SCREW / SCHRAUBE M10X30	8
025	9007.06.014.129.1.4762	VITE / SCREW / SCHRAUBE M6X14	6
026	9007.06.012.129.1.4762	VITE / SCREW / SCHRAUBE M6X12	2
027	9007.10.020.129.1.9327	VITE / SCREW / SCHRAUBE M10X20	6

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜK



019 (9003) SENSORE / SENSOR / SENSOR

19 PATENT PENDING

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

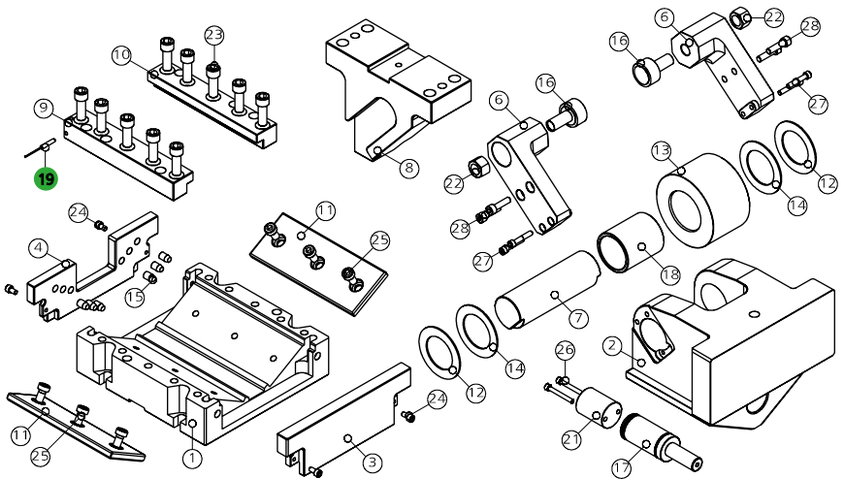
MODEL **0149.K4A0** INCLINATION **+10°** OPTION CODE **9003.0002**

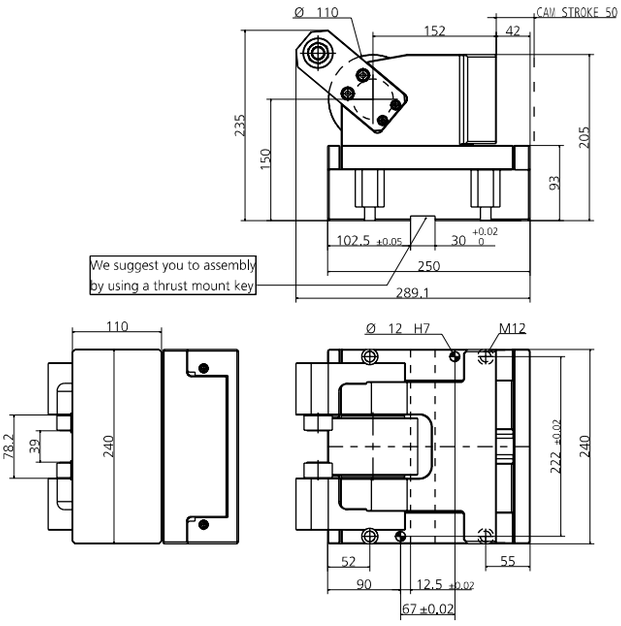
0149.P550 - **CAM ROLLER P550**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **500 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **926 daN**

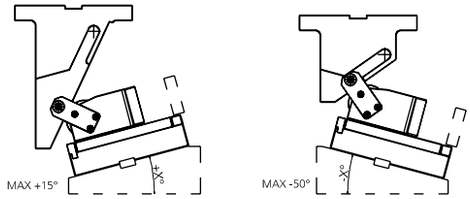
SFORZO MAX TRANCIO — **25800 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



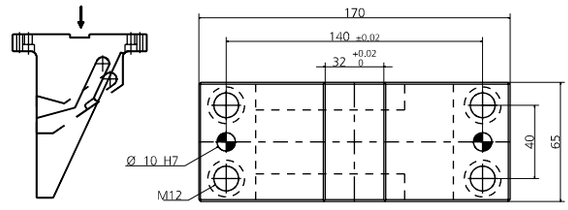


POS.	CODE	DESCRIPTION	Q.TY
001	**8000.0049.0550**	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	**8007.0049.0500**	SLITTA / SLIDER / LAGERKEIL	1
003	**8088.0049.0500.001**	PIASTRINA / PLATE / PLATTE	1
004	**8088.0049.0500.002**	PIASTRINA / PLATE / PLATTE	1
006	**8009.0049.0500**	STAFFA DI AGGANCIO / BRACKET 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 / UNTERLEGSCHEIBE	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

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜK



019 (9003) SENSORE / SENSOR / SENSOR

19 PATENT PENDING

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

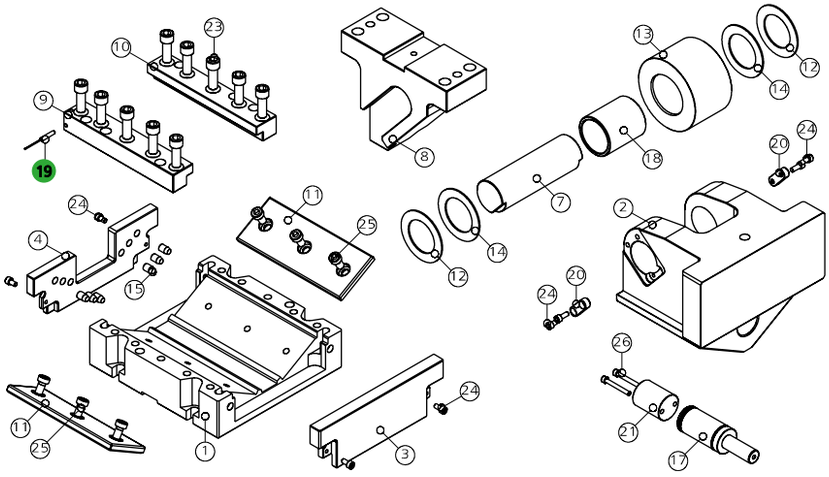
MODEL **0149.P550** INCLINATION **+10°** OPTION CODE **9003.0002**

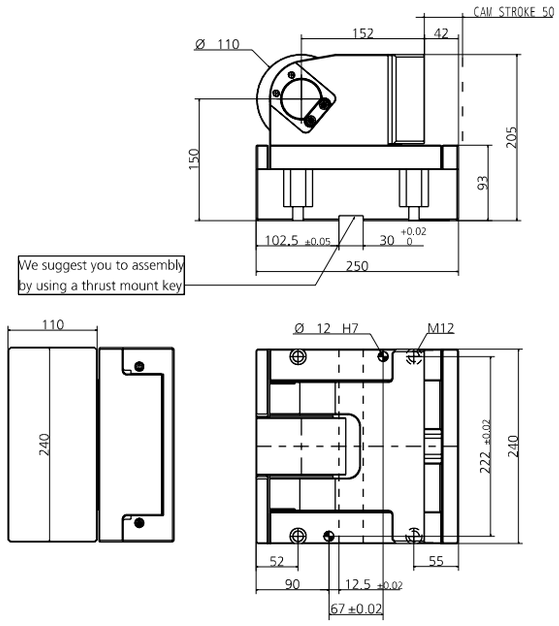
0149.K550 - **CAM ROLLER K550**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **500 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **926 daN**

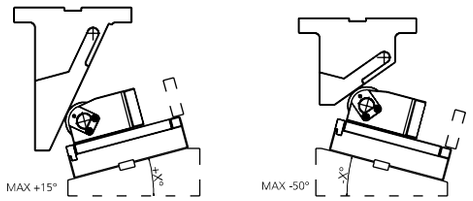
SFORZO MAX TRANCIO — **25800 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



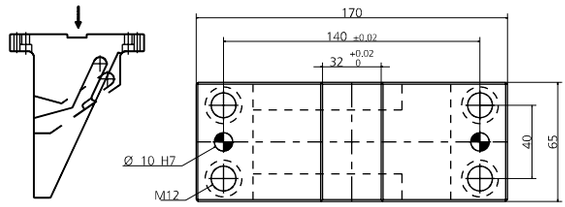


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.0550	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0500	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0500.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0500.002	PIASTRINA / PLATE / PLATTE	1
007	8005.1550.1417.500.001	PERNO / PIN / STIFT	1
008	8090.0405.0050.000	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 / UNTERLEGSCHEIBE	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 / DRUCKSTÜK



019 (9003) SENSORE / SENSOR / SENSOR

19 PATENT PENDING

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

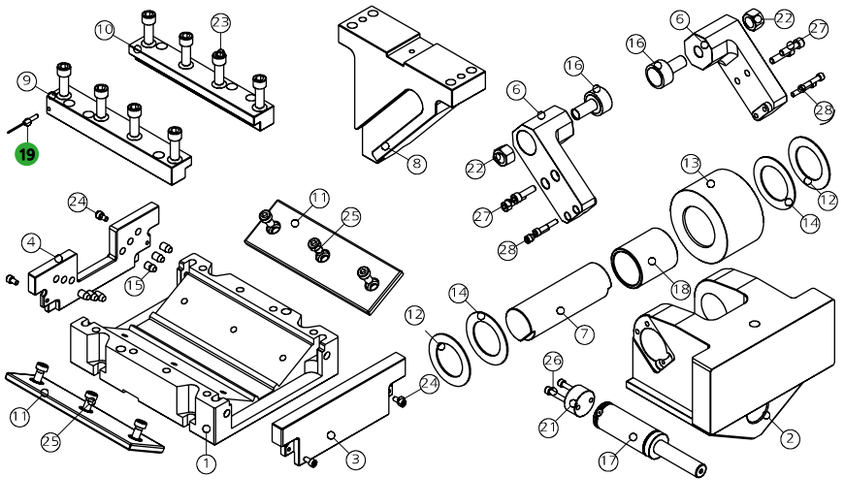
MODEL **0149.K550** INCLINATION **+10°** OPTION CODE **9003.0002**

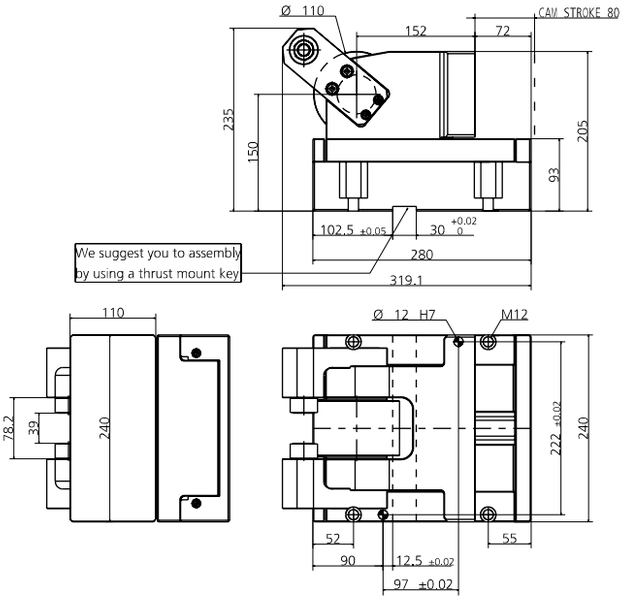
0149.P580 - **CAM ROLLER P580**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **500 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **936 daN**

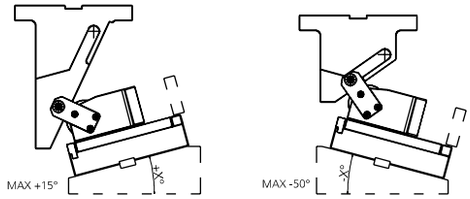
SFORZO MAX TRANCIO — **25800 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



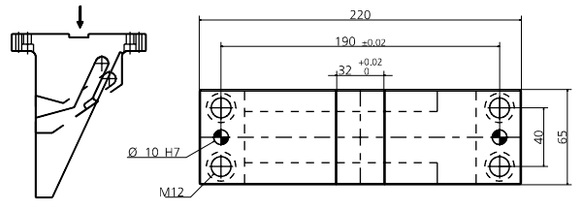


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.0580	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0500	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0500.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0500.002	PIASTRINA / PLATE / PLATTE	1
006	8009.0049.0500	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / 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 / UNTERLEGSCHEIBE	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

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜK



019 (9003) SENSORE / SENSOR / SENSOR

19 PATENT PENDING

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

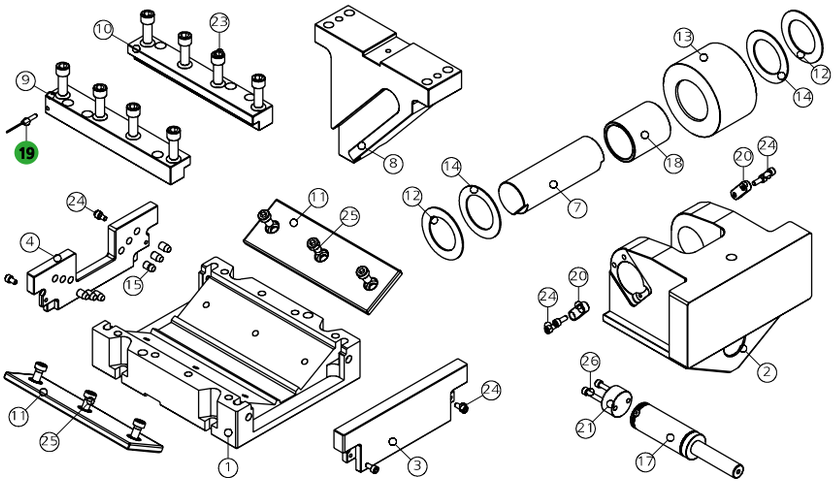
MODEL **0149.P580** INCLINATION **+10°** OPTION CODE **9003.0002**

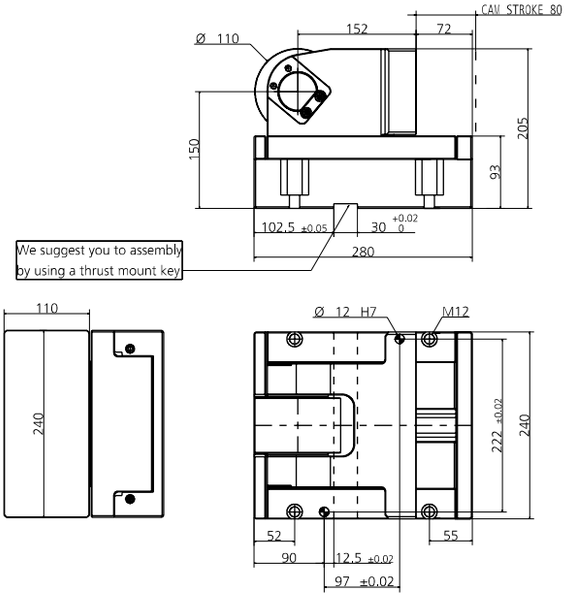
0149.K580 - **CAM ROLLER K580**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **500 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **936 daN**

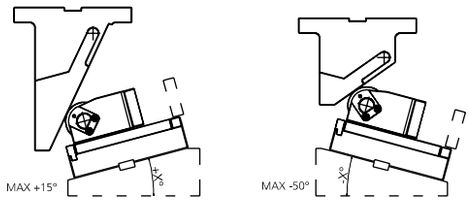
SFORZO MAX TRANCIO — **25800 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



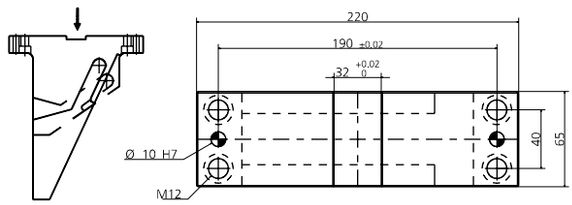


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.0580	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0500	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0500.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0500.002	PIASTRINA / PLATE / PLATTE	1
007	8005.1550.1417.500.001	PERNO / PIN / STIFT	1
008	8090.0405.A080.000	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 / UNTERLEGSCHEIBE	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 / DRUCKSTÜK



019 (9003) SENSORE / SENSOR / SENSOR

19 PATENT PENDING

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

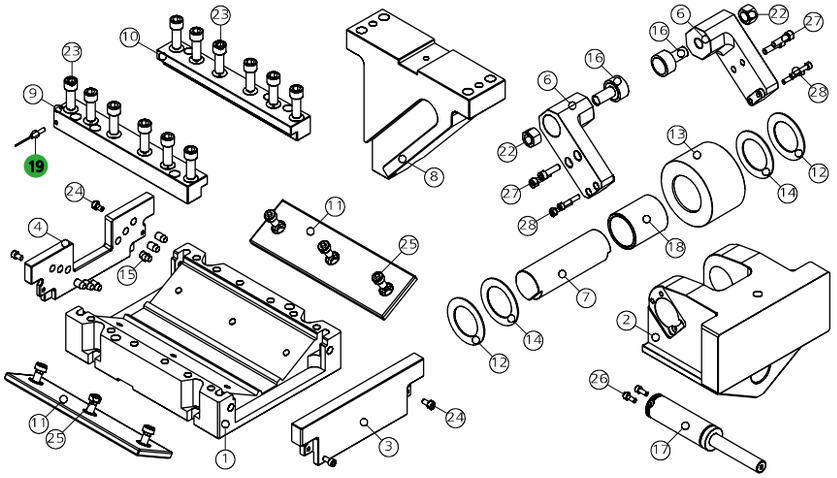
MODEL **0149.K580** INCLINATION **+10°** OPTION CODE **9003.0002**

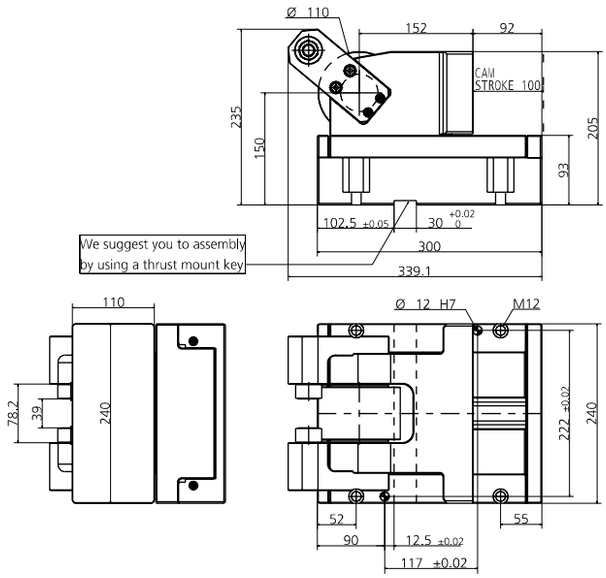
0149.P5A0 - **CAM ROLLER P5A0**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **500 daN**

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION — **938 daN**

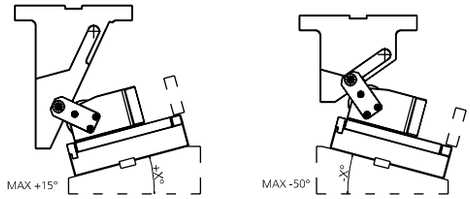
SFORZO MAX TRANCIO — **25800 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



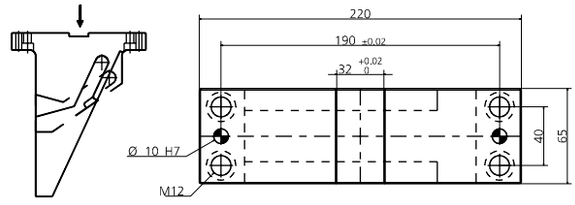


POS.	CODE	DESCRIPTION	Q.TY
001	**8000.0049.05A0**	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	**8007.0049.0500**	SLITTA / SLIDER / LAGERKEIL	1
003	**8088.0049.0500.001**	PIASTRINA / PLATE / PLATTE	1
004	**8088.0049.0500.002**	PIASTRINA / PLATE / PLATTE	1
006	**8009.0049.0500**	STAFFA DI AGGANCIO / BRACKET 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 / UNTERLEGSCHEIBE	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

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜK



019 (9003) SENSORE / SENSOR / SENSOR

19 PATENT PENDING

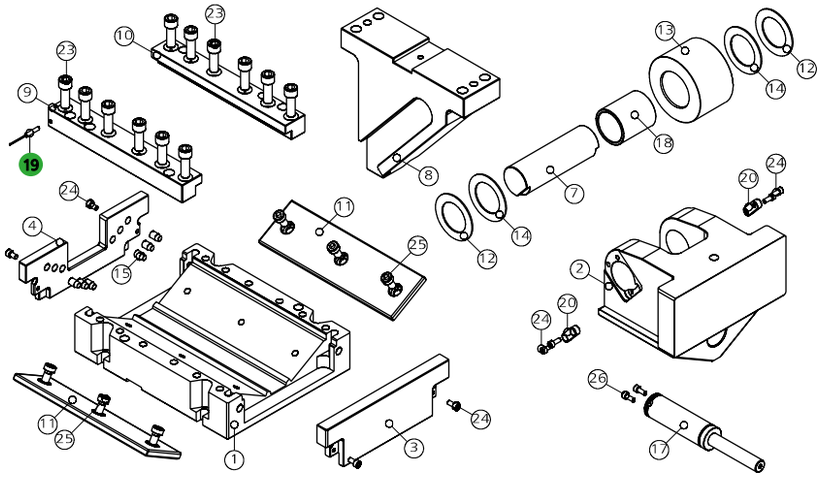
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

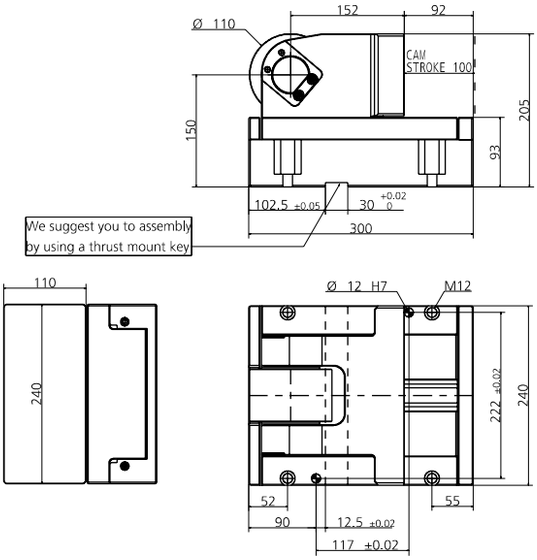
MODEL **0149.P5A0** INCLINATION **+10°** OPTION CODE **9003.0002**

0149.K5A0 - **CAM ROLLER K5A0**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE — **500 daN**
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION — **938 daN**
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION

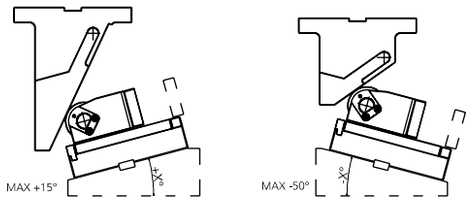
SFORZO MAX TRANCIO — **25800 daN**
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



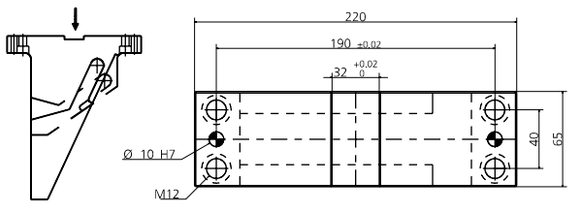


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.05A0	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0500	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0500.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0500.002	PIASTRINA / PLATE / PLATTE	1
007	8005.1550.1417.500.001	PERNO / PIN / STIFT	1
008	8090.0405.A080.000	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 / UNTERLEGSCHEIBE	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	9000.0100.0038.001	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
020	8087.0400.0140.090.001	CHIAVETTA / KEY / SCHLÜSSEL	2
023	9007.12.035.129.1.4762	VITE / SCREW / SCHRAUBE M12X35	12
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	9007.06.025.129.1.4762	VITE / SCREW / SCHRAUBE M6X25	2

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜK



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**

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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 tranciature 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 thank 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.

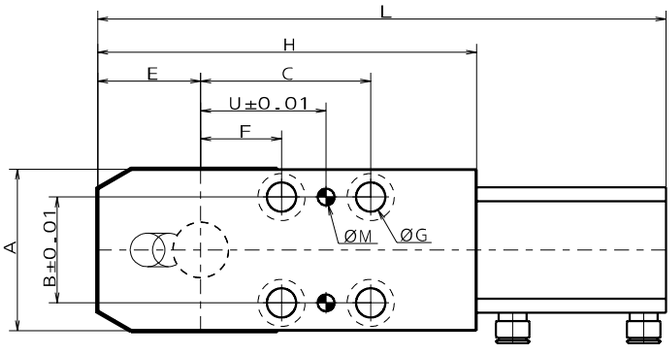
DE Stempelhalter geeignet für Stempel ISO8020, Ballock Heavy duty oder mit Posaunenhals. Die Stempelhalter ermöglichen, die Stempel zu führen und das Einsetzen in das Werkzeug zu beschleunigen. Es sind zwei Standard Modelle vorhanden, viereckige und dreieckige; ein rückziehbares, welches das Zu-oder 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.

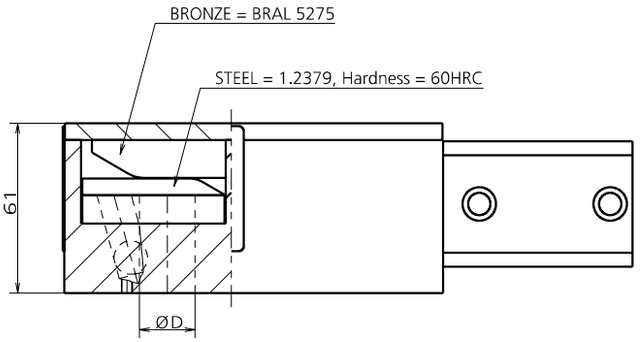
FR Porte-poinçons adaptés aux poinçons ISO8020, Ballock Heavy duty ou à col de cygne, qui permettent de guider les poinçons et d'accélérer leur insertion dans l'outil de découpe. Il existe deux versions standard, carrée et triangulaire; une version pouvant être exclue qui permet d'inclure ou d'exclure 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 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
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

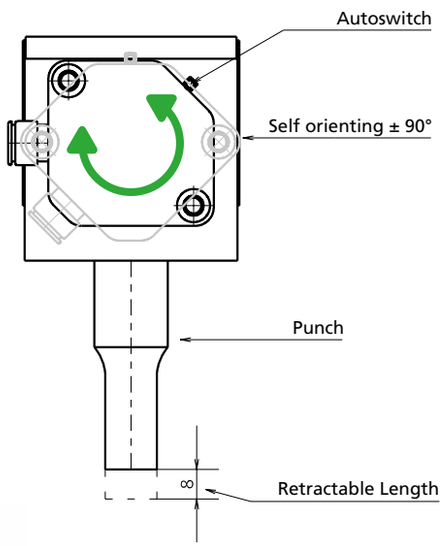
I portapunzoni escludibili Newstark vengono forniti comprensivi di viti, spine, cilindro ad aria con microsensore e relativi attacchi dell'aria. I tubi dell'aria Ø 6mm non sono inclusi nella fornitura.

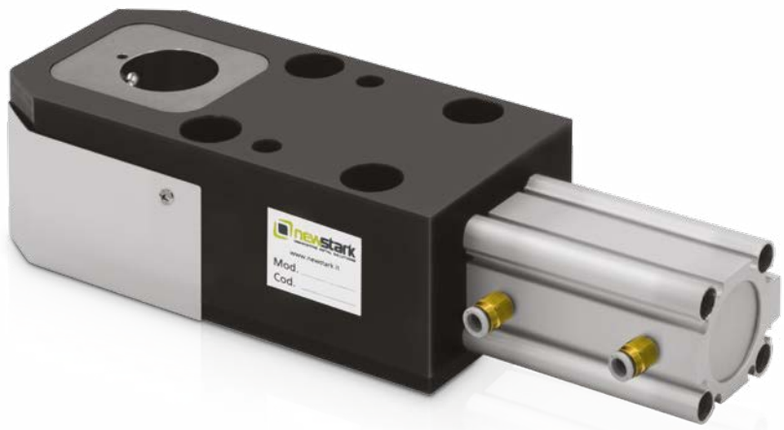
Newstark retractable retainers include all necessary screws, dowels, air cylinder with microsensor and its fittings. Tubing Ø 6 mm are not included.

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)





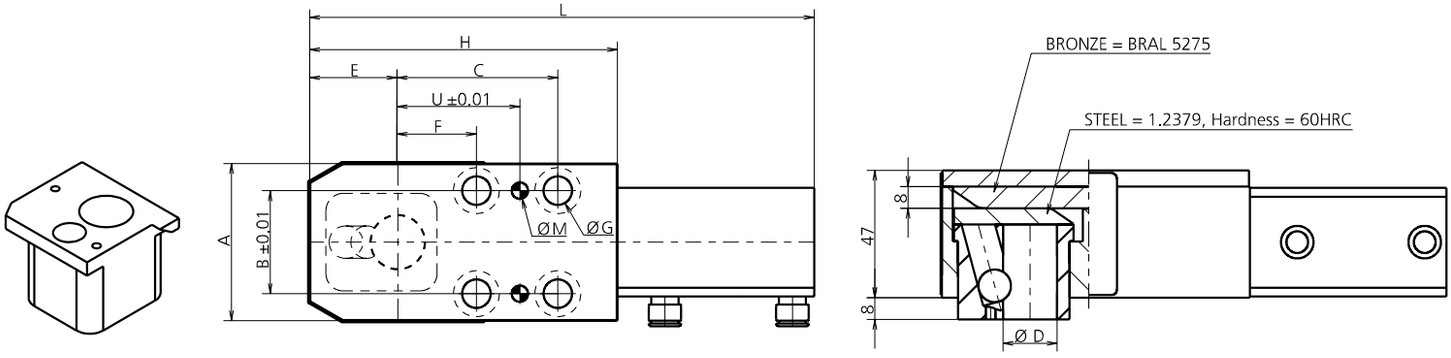
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

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

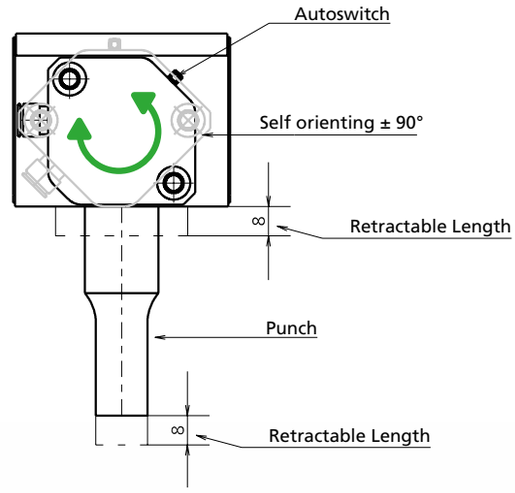
I portapunzoni escludibili Newstark vengono forniti comprensivi di viti, spine, cilindro ad aria con microsensore e relativi attacchi dell'aria. I tubi dell'aria Ø 6mm non sono inclusi nella fornitura.

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.

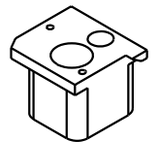
Durch das Austauschen der Stempelhalteplatte in die 8021.0003 kann der Lochstempel dem Fuß der Vorrichtung um 12 mm näher gebracht werden.

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.

- APPROVED -

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



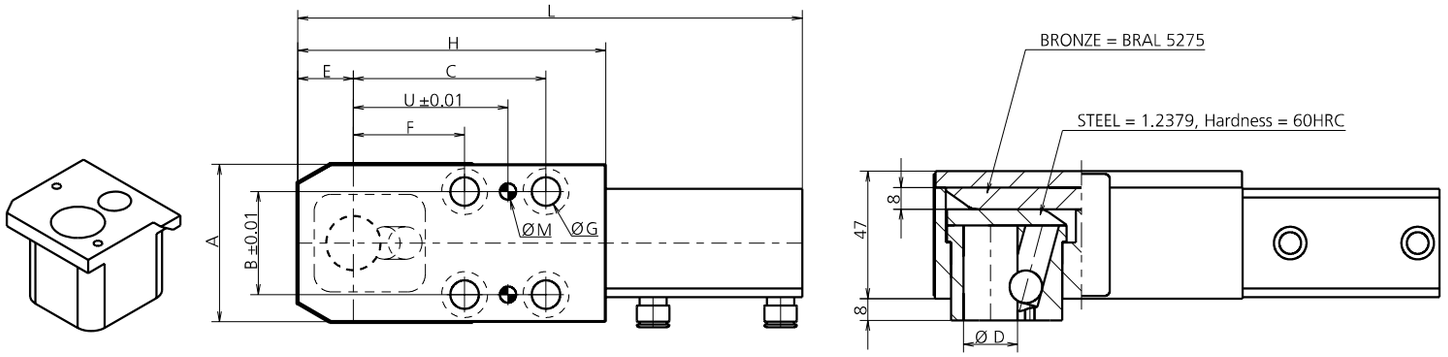
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

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

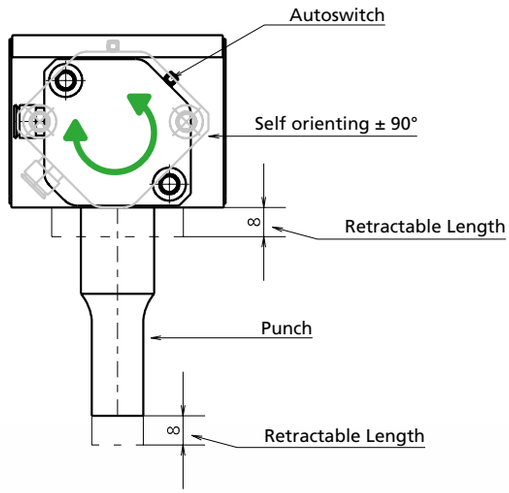
I portapunzoni escludibili Newstark vengono forniti comprensivi di viti, spine, cilindro ad aria con microsensore e relativi attacchi dell'aria. I tubi dell'aria Ø 6mm non sono inclusi nella fornitura.

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.

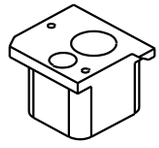
Possibility to exchange the punch holder with model 8021.0002, which allows the punch to be moved away from the retainer head by 12 mm.

Durch das Austauschen der Stempelhalteplatte in die 8021.0002 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 8021.0002, 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

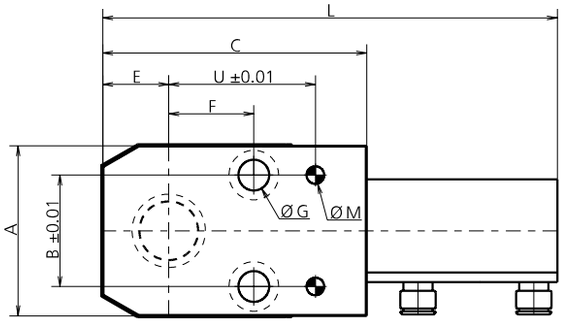


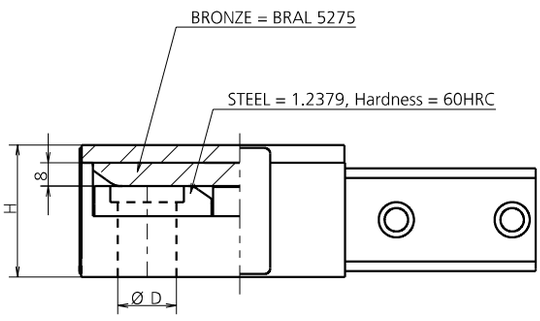
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

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 STEMPELHALTEPLATTEN 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

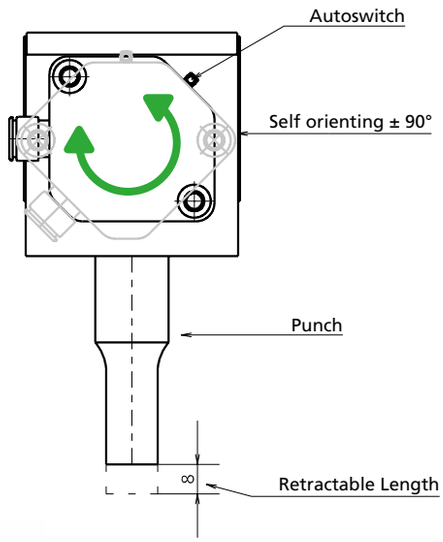
I portapunzoni escludibili Newstark vengono forniti comprensivi di viti, spine, cilindro ad aria con microsensore e relativi attacchi dell'aria. I tubi dell'aria Ø 6mm non sono inclusi nella fornitura.

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)

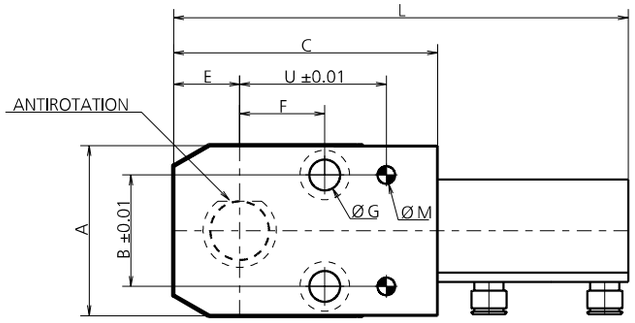


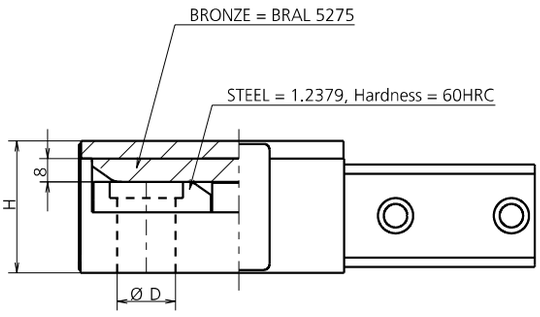
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

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

1005 - PORTAPUNZONE ESCLUDIBILE PER PUNZONI A TESTA CILINDRICA SAGOMATI

RETRACTABLE RETAINER FOR HEADED SHAPED PUNCHES / AUSWECHSELBARE STEMPELHALTEPLATTEN 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

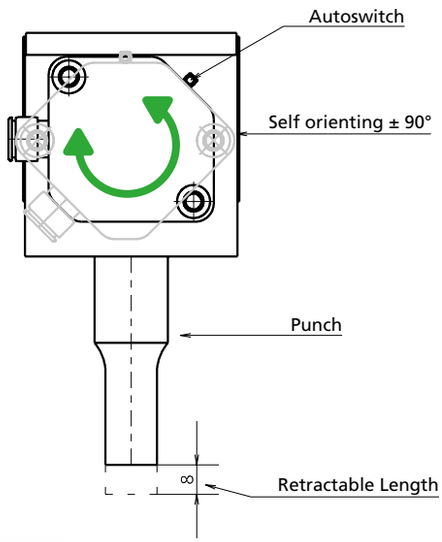
I portapunzoni escludibili Newstark vengono forniti comprensivi di viti, spine, cilindro ad aria con microsensore e relativi attacchi dell'aria. I tubi dell'aria Ø 6mm non sono inclusi nella fornitura.

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)

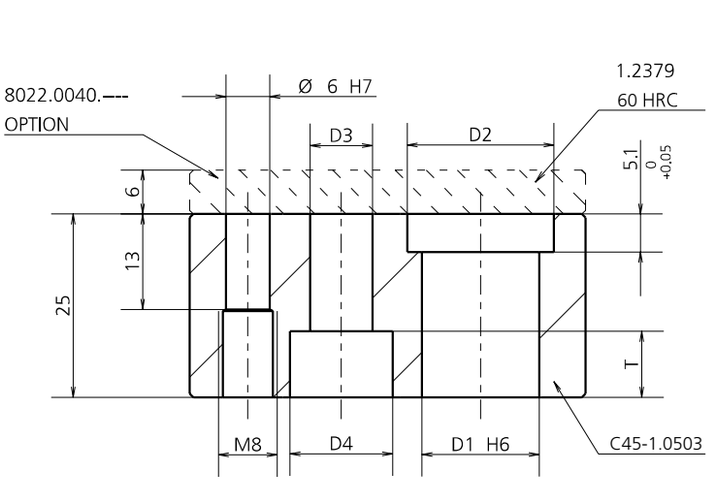


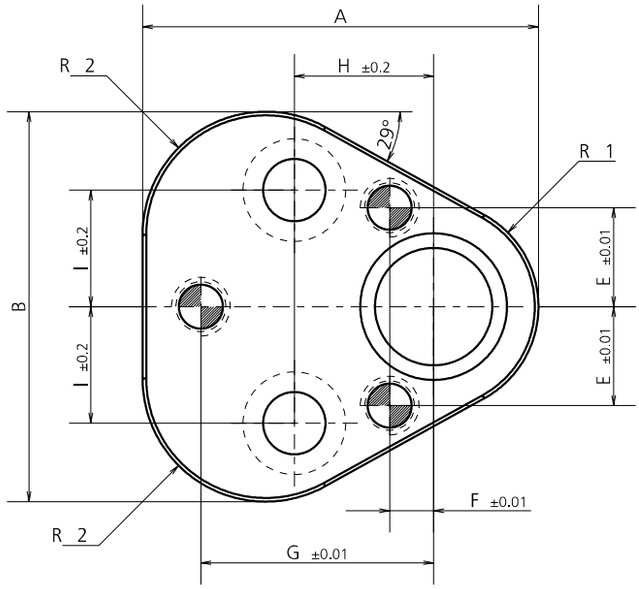
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1005** DIAMETER PUNCH **0010**

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

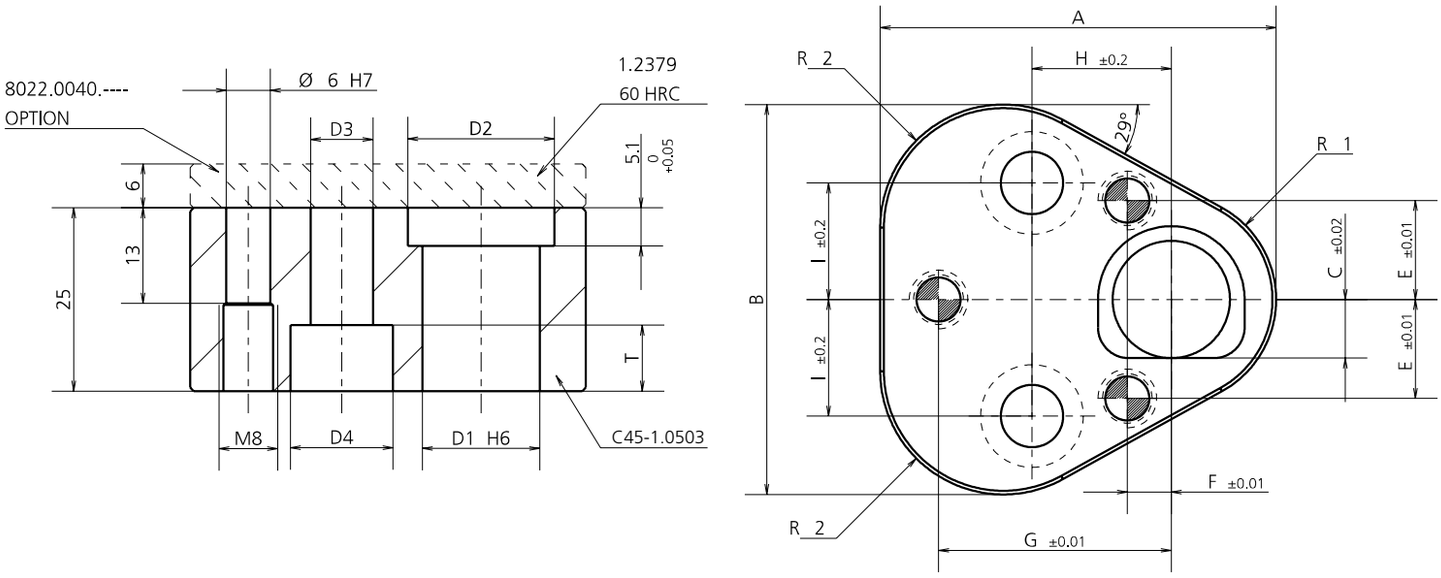
POSSIBILITÀ DI UTILIZZO CON STARK STRIP / POSSIBILITY TO USE WITH STARK STRIP
ANWENDUNGSMÖGLICHKEITEN MIT STARK STRIP / POSSIBILITÉ D'UTILISATION AVEC STARK STRIP

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

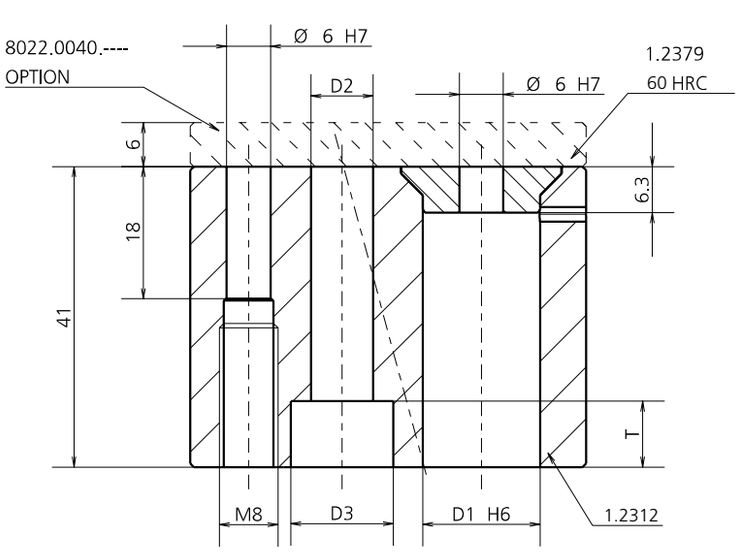
POSSIBILITÀ DI UTILIZZO CON STARK STRIP / POSSIBILITY TO USE WITH STARK STRIP
ANWENDUNGSMÖGLICHKEITEN MIT STARK STRIP / POSSIBILITÉ D'UTILISATION AVEC STARK STRIP

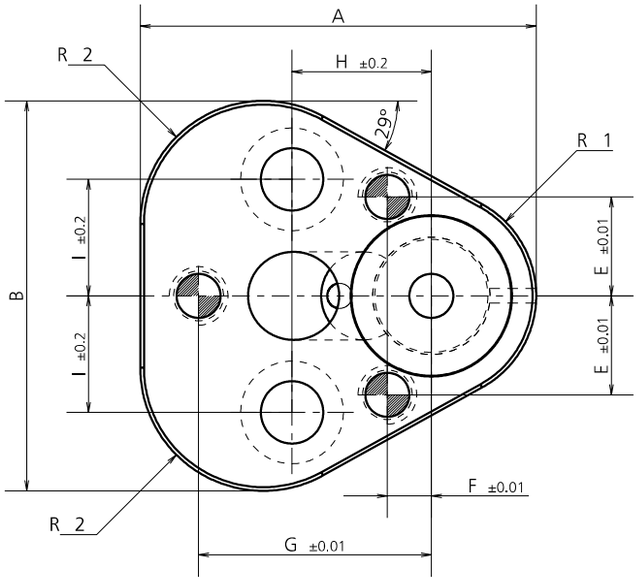
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

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

- APPROVED -

POSSIBILI APPLICAZIONI / POSSIBLE APPLICATIONS / MÖGLICHE ANWENDUNGEN
APPLICATIONS POSSIBLES

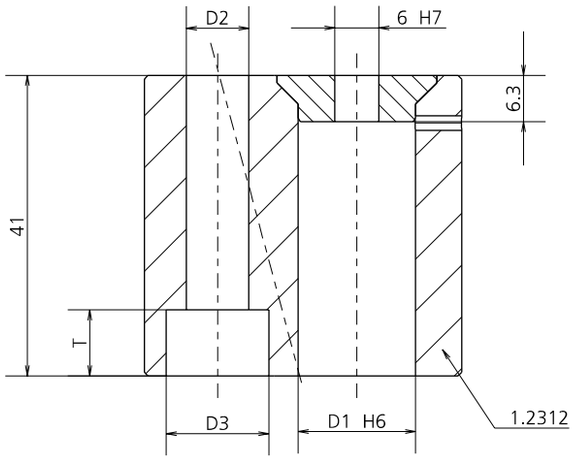
POSSIBILITÀ DI UTILIZZO CON STARK STRIP / POSSIBILITY TO USE WITH STARK STRIP
ANWENDUNGSMÖGLICHKEITEN MIT STARK STRIP / POSSIBILITÉ D'UTILISATION AVEC STARK STRIP

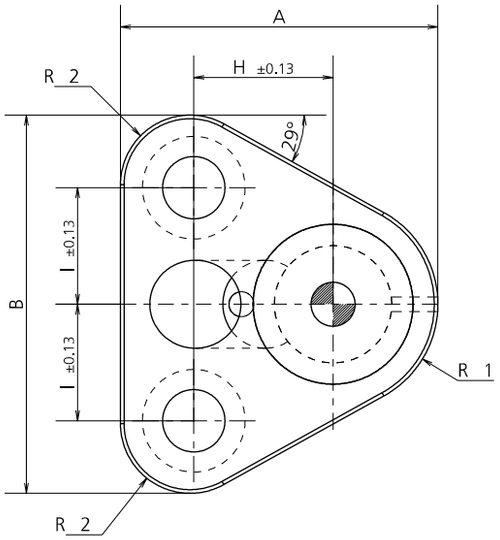
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1044** DIAMETER PUNCH **0010** OPTION CODE **8022.0040.0810**

1047 - PORTA PUNZONE TRIANGOLARE COMPATTO PER BALLOCK HEAVY DUTY

COMPACT TRIANGULAR PUNCH HOLDER FOR BALLOCK HEAVY DUTY / KOMPAKTER DREIECKIGER LOCHSTEMPELTRÄGER BALLOCK HEAVY DUTY / PORTE-POINÇON TRIANGULAIRE COMPACT 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	H	I	T	R1	R2
1047.0010	38.5	40.6	10	9	14	19	11.1	9	9.5	9.5
1047.0013	41.7	47.9	13	9	14	19	14.3	9	12.7	9.5
1047.0016	43.3	51.6	16	9	14	19	15.9	9	14.3	9.5
1047.0020	47.5	57.9	20	11	17	19	17.5	11	17.5	11
1047.0025	59.2	68.8	25	13	20	23.8	19.8	13	22.2	16.5
1047.0032	59.2	68.8	32	13	20	23.8	19.8	13	22.2	16.5
1047.0040	69	76.5	40	13	20	27	24	13	26	22

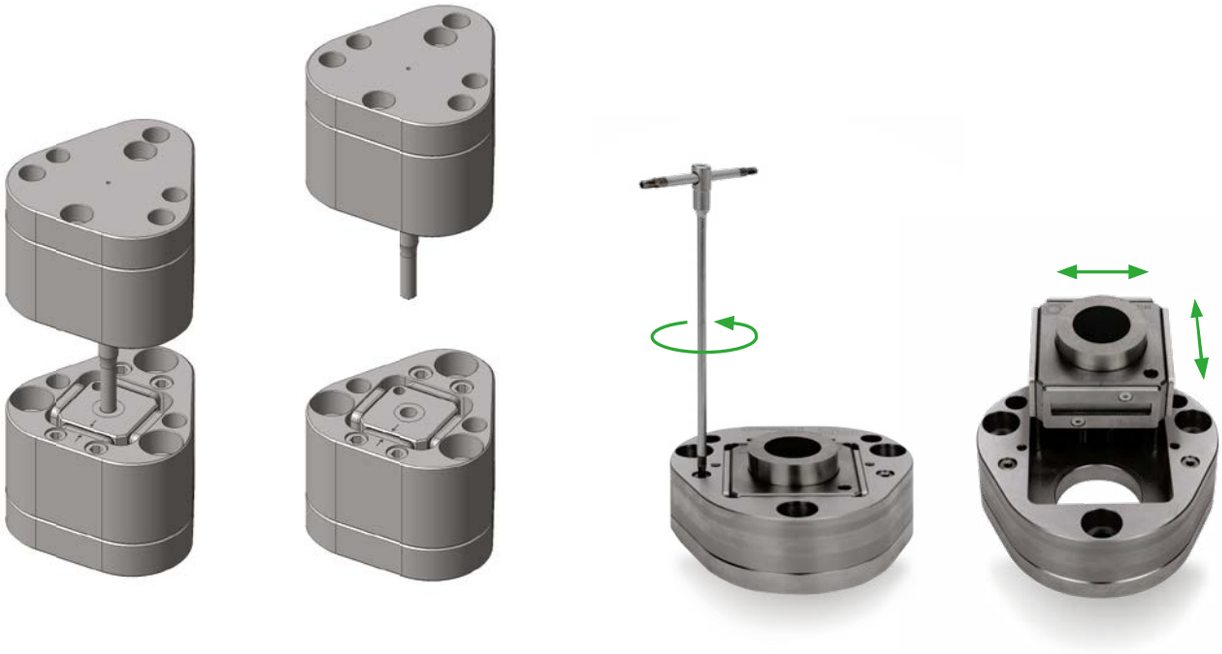
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

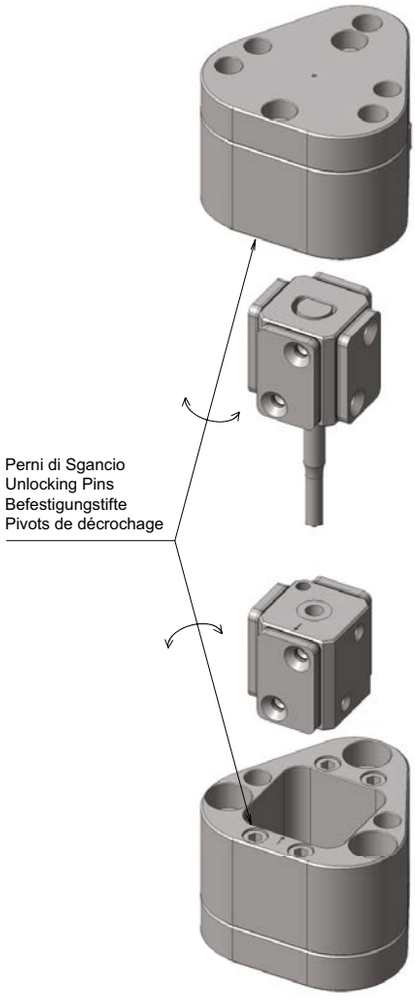
MODEL **1047** DIAMETER PUNCH **0010**

PORTAPUNZONI REGOLABILI

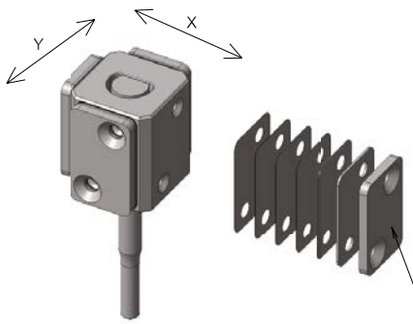
ADJUSTABLE PUNCH HOLDERS / VERSTELLBARE STEMPELHALTEPLATTEN / PORTE-POINÇONS RÉGLABLES

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



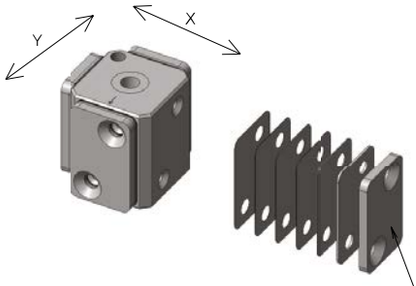


Regolazione Max "X", "Y" ± 1 mm
Max Regulation "X", "Y" ± 1 mm
Maximale Regelung "X", "Y" ± 1 mm
Réglage maxi. « X », « Y » +/- 1 mm



Spessori di regolazione da 0,05 a 1mm
Adjusting thicknesses from 0,05 to 1mm
Abstimmblech von 0,05 bis 1 mm
Cales de réglage de 0,05 à 1 mm

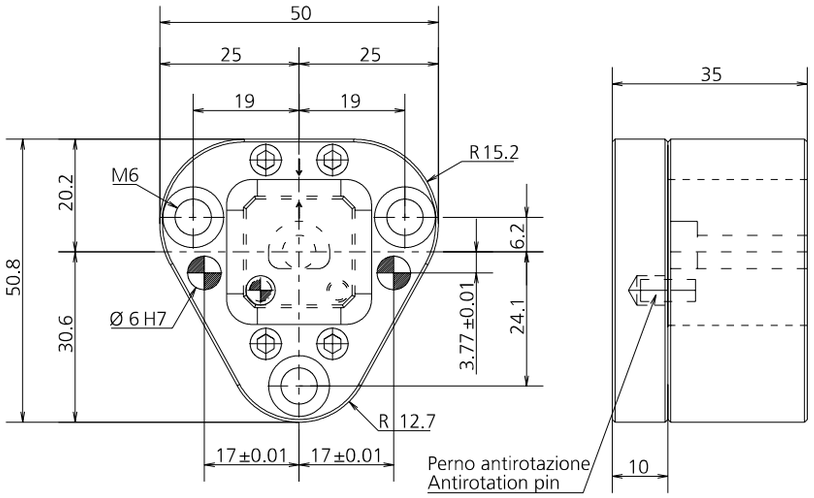
Regolazione Max "X", "Y" ± 1 mm
Max Regulation "X", "Y" ± 1 mm
Maximale Regelung "X", "Y" ± 1 mm
Réglage maxi. « X », « Y » +/- 1 mm



Spessori di regolazione da 0,05 a 1mm
Adjusting thicknesses from 0,05 to 1mm
Abstimmblech von 0,05 bis 1 mm
Cales de réglage de 0,05 à 1 mm

1011.0100 - **PORTAPUNZONE REGOLABILE**

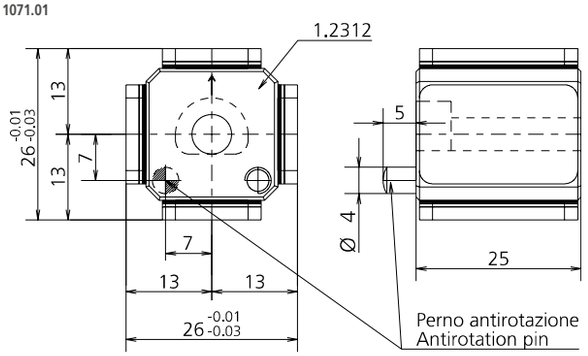
ADJUSTABLE PUNCH HOLDER / VERSTELLBARE STEMPELHALTEPLATTEN / PORTE-POINÇON RÉGLABLE



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

1071.01

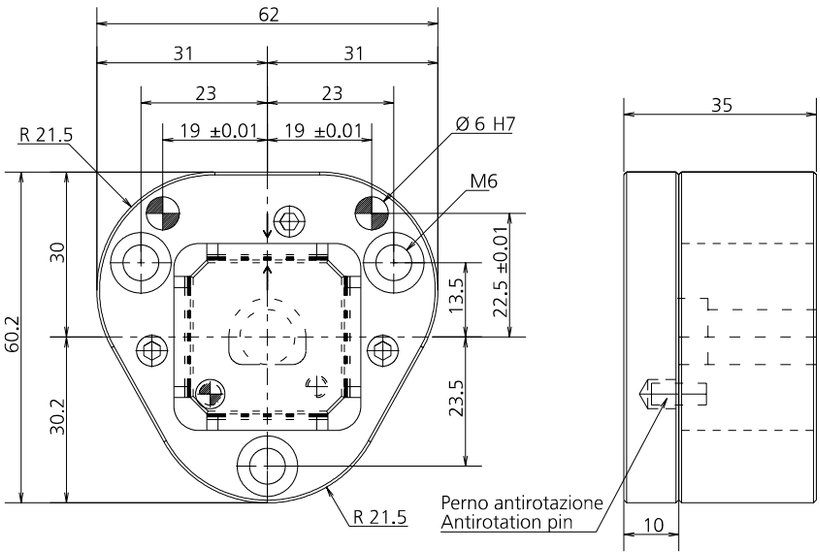


MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1011.0100** OPTION CODE **1071.0105**

1012.0100 - **PORTAPUNZONE REGOLABILE**

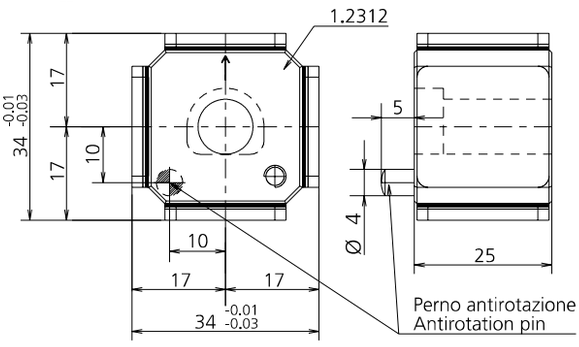
ADJUSTABLE PUNCH HOLDER / VERSTELLBARE STEMPELHALTEPLATTEN / PORTE-POINÇON RÉGLABLE



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

1072.01__

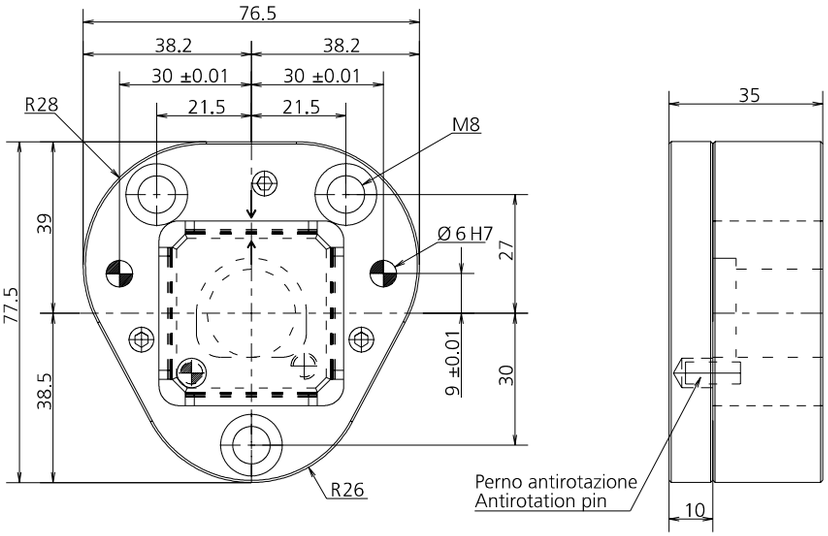


MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1012.0100** OPTION CODE **1072.0110**

1013.0100 - **PORTAPUNZONE REGOLABILE**

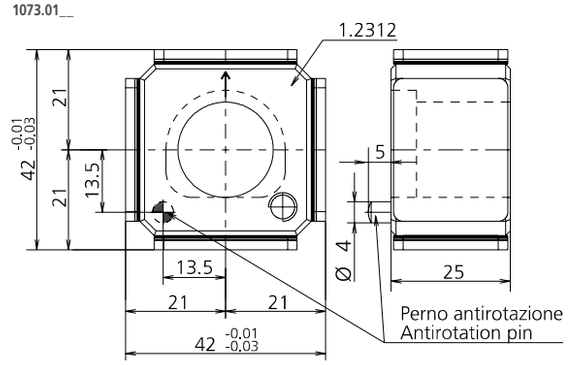
ADJUSTABLE PUNCH HOLDER / VERSTELLBARE STEMPELHALTEPLATTEN / PORTE-POINÇON RÉGLABLE



CODE	DESCRIPTION
1013.0100	ADJUSTABLE PUNCH HOLDER

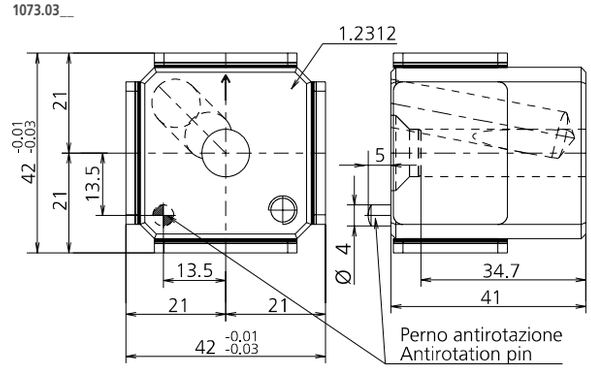
CODE	PUNCH	Q.TY
1073.0120	ISO8020 Ø20	1*CHOOSE
1073.0125	ISO8020 Ø25	1*CHOOSE

1073.01__



CODE	PUNCH	Q.TY
1073.0310	BALLOCK HEAVY DUTY Ø10	1*CHOOSE
1073.0313	BALLOCK HEAVY DUTY Ø13	1*CHOOSE

1073.03__

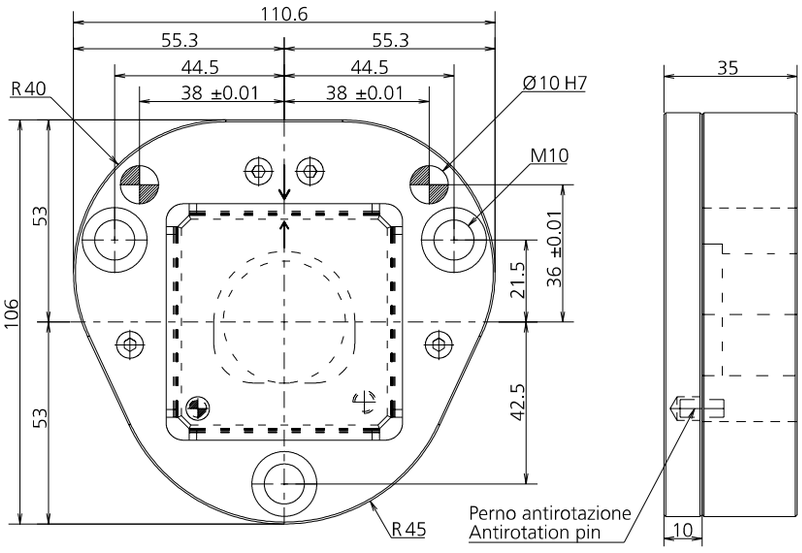


MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1013.0100** OPTION CODE **1073.0310**

1014.0100 - **PORTAPUNZONE REGOLABILE**

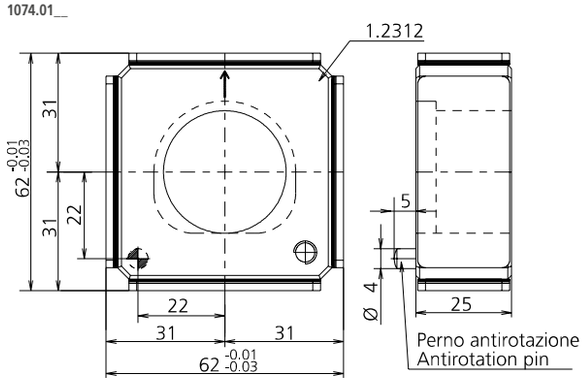
ADJUSTABLE PUNCH HOLDER / VERSTELLBARE STEMPELHALTEPLATTEN / PORTE-POINÇON RÉGLABLE



CODE	DESCRIPTION
1014.0100	ADJUSTABLE PUNCH HOLDER

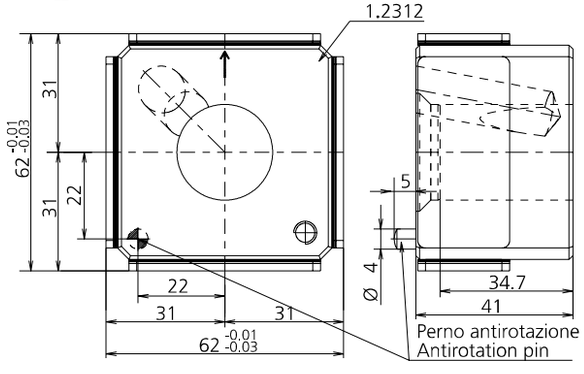
CODE	PUNCH	Q.TY
1074.0132	ISO8020 Ø32	1*CHOOSE
1074.0140	ISO8020 Ø40	1*CHOOSE

1074.01__



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

1074.03__

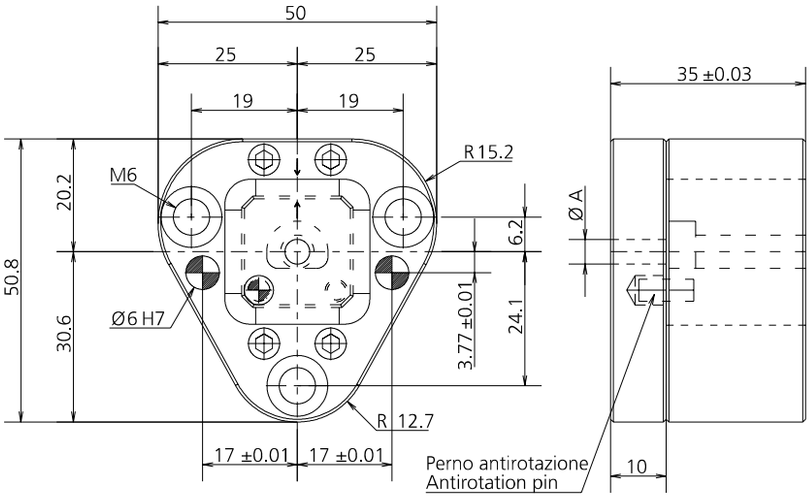


MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1014.0100** OPTION CODE **1074.0232**

1021 - PORTA MATRICE REGOLABILE

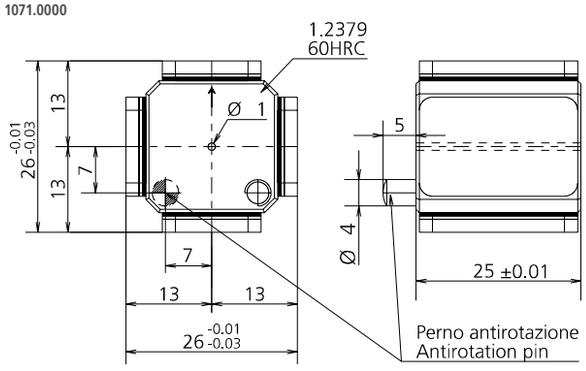
ADJUSTABLE MATRIX HOLDER / VERSTELLBARE MATRIXHALTEPLATTEN / PORTE-MATRICE RÉGLABLE



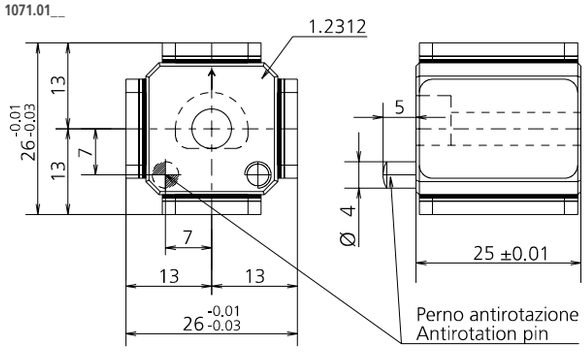
MODEL	MATRIX	Q.TY	Ø A	
1021.0000	SBOZZATA / BLANK / ROHLING	1	1	1021.0000+1071.0000
1021.0108	ISO 8977 Ø8	1	4.5	1021.0108+1071.0108

CODE	MATRIX	Q.TY
1071.0000	SBOZZATA / BLANK / ROHLING	1*OPTION
1071.0108	ISO 8977 Ø8	1*OPTION

1071.0000



1071.01__

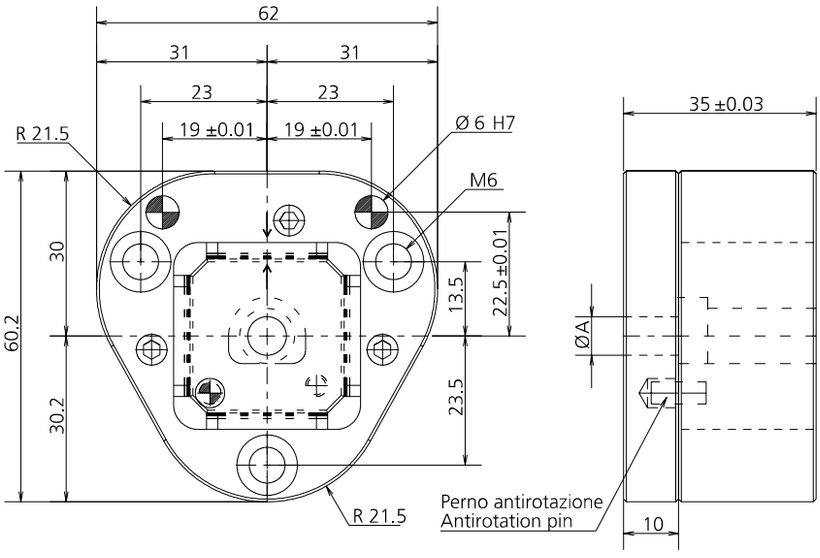


MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1021.0000** OPTION CODE **1071.0000**

1022 - **PORTA MATRICE REGOLABILE**

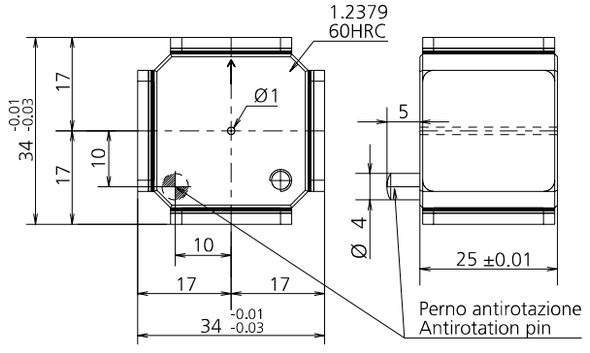
ADJUSTABLE MATRIX HOLDER / VERSTELLBARE MATRIXHALTEPLATTEN / PORTE- MATRICE RÉGLABLE



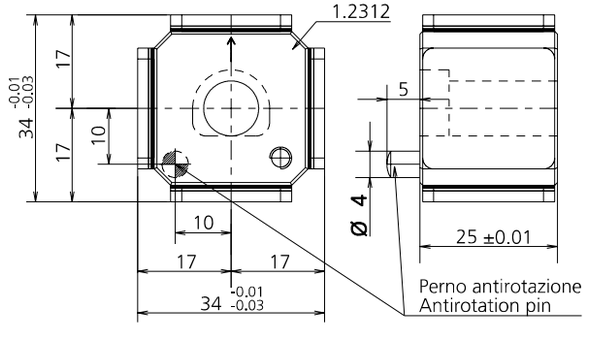
MODEL	MATRIX	Q.TY	Ø A	
1022.0000	SBOZZATA / BLANK / ROHLING	1	1	1022.0000+1072.0000
1022.0110	ISO 8977 Ø10	1	7	1022.0110+1072.0110
1022.0113	ISO 8977 Ø13	1	9	1022.0113+1072.0113
1022.0116	ISO 8977 Ø16	1	10.5	1022.0116+1072.0116

CODE	MATRIX	Q.TY
1072.0000	SBOZZATA / BLANK / ROHLING	1*OPTION
1072.0110	ISO 8977 Ø10	1*OPTION
1072.0113	ISO 8977 Ø13	1*OPTION
1072.0116	ISO 8977 Ø16	1*OPTION

1072.0000



1072.01__

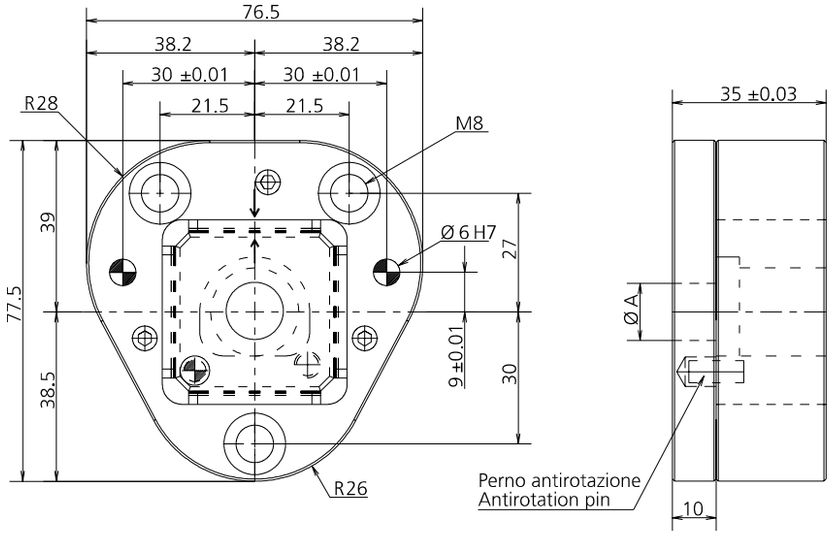


MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1022.0000** OPTION CODE **1072.0000**

1023 - **PORTA MATRICE REGOLABILE**

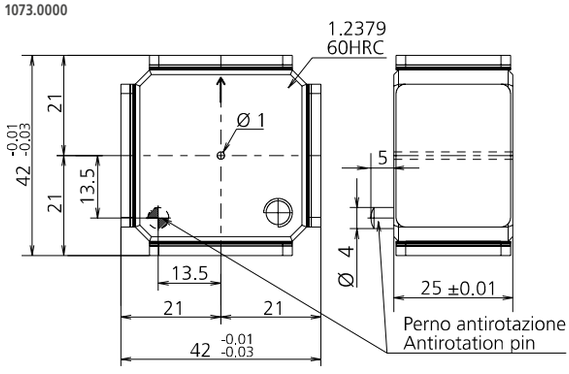
ADJUSTABLE MATRIX HOLDER / VERSTELLBARE MATRIXHALTEPLATTEN / PORTE- MATRICE RÉGLABLE



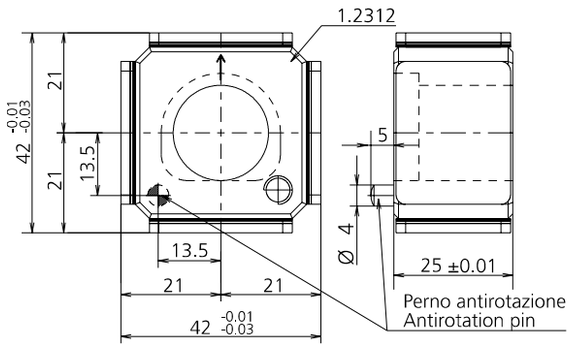
MODEL	MATRIX	Q.TY	Ø A	
1023.0000	SBOZZATA / BLANK / ROHLING	1	1	1023.0000+1073.0000
1023.0120	ISO 8977 Ø20	1	13	1023.0120+1073.0120
1023.0125	ISO 8977 Ø25	1	18.5	1023.0125+1073.0125

CODE	MATRIX	Q.TY
1073.0000	SBOZZATA / BLANK / ROHLING	1*OPTION
1073.0120	ISO 8977 Ø20	1*OPTION
1073.0125	ISO 8977 Ø25	1*OPTION

1073.0000



1073.01__

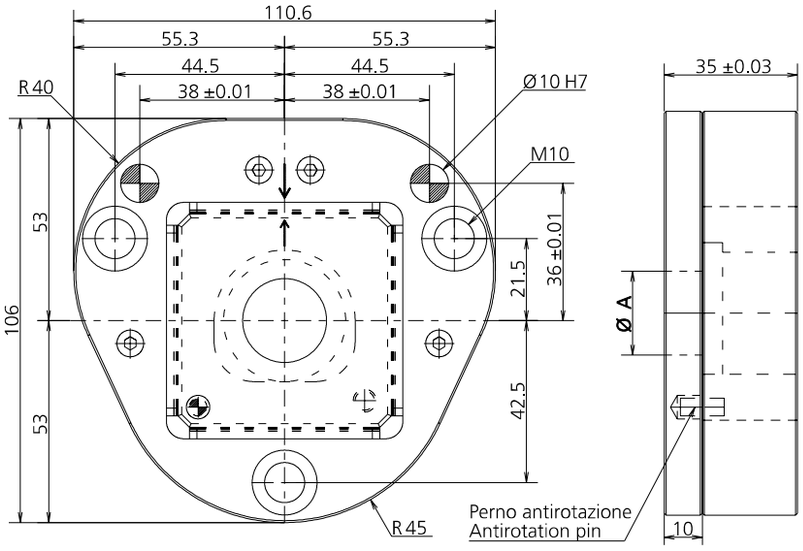


MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1023.0000** OPTION CODE **1073.0000**

1024 - **PORTA MATRICE REGOLABILE**

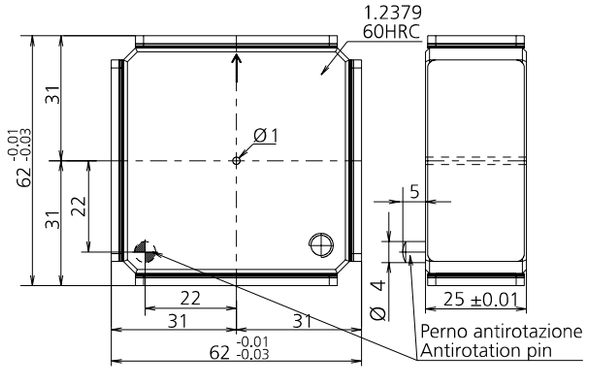
ADJUSTABLE MATRIX HOLDER / VERSTELLBARE MATRIXHALTEPLATTEN / PORTE- MATRICE RÉGLABLE



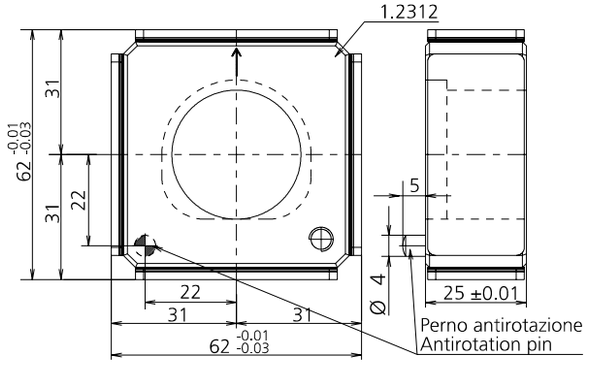
MODEL	MATRIX	Q.TY	Ø A	
1024.0000	SBOZZATA / BLANK / ROHLING	1	1	1024.0000+1074.0000
1024.0132	ISO 8977 Ø32	1	23	1024.0132+1074.0132
1024.0140	ISO 8977 Ø40	1	28	1024.0140+1074.0140

CODE	MATRIX	Q.TY
1074.0000	SBOZZATA / BLANK / ROHLING	1*OPTION
1074.0132	ISO 8977 Ø32	1*OPTION
1074.0140	ISO 8977 Ø40	1*OPTION

1074.0000



1074.01__



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

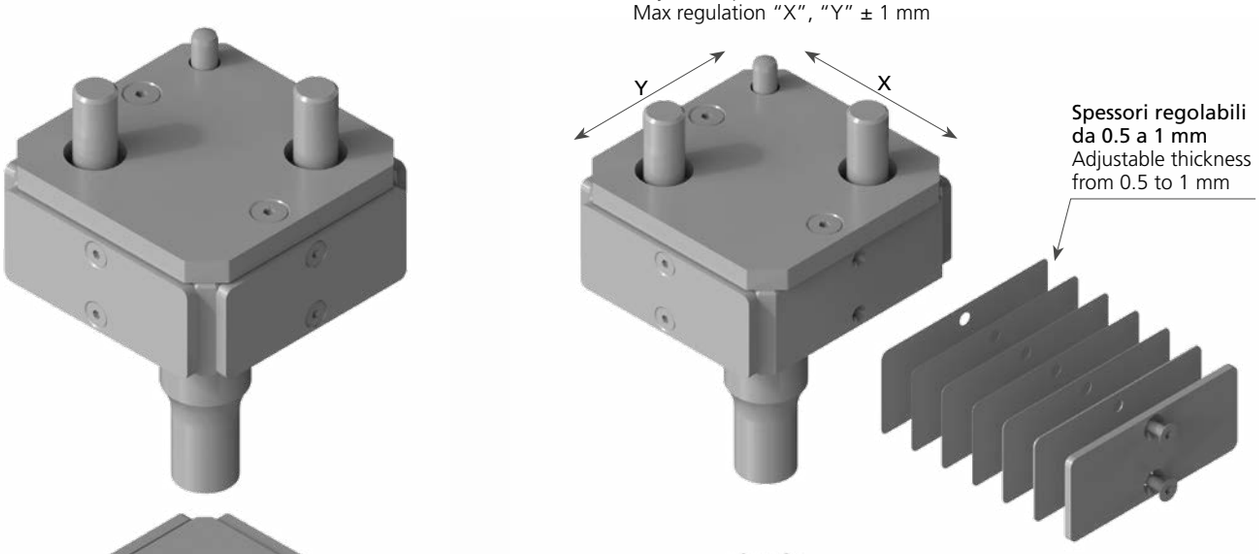
MODEL **1024.0000** OPTION CODE **1074.0000**

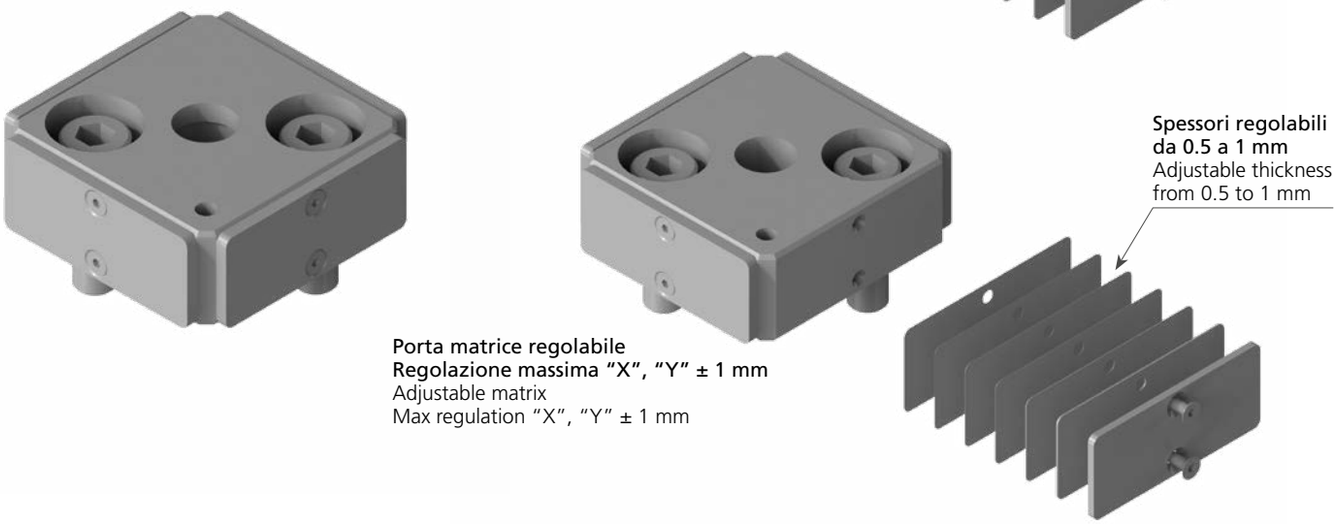
PORTAPUNZONI REGOLABILI

ADJUSTABLE PUNCH HOLDERS / VERSTELLBARE STEMPELHALTEPLATTEN
PORTE-POINÇONS RÉGLABLES

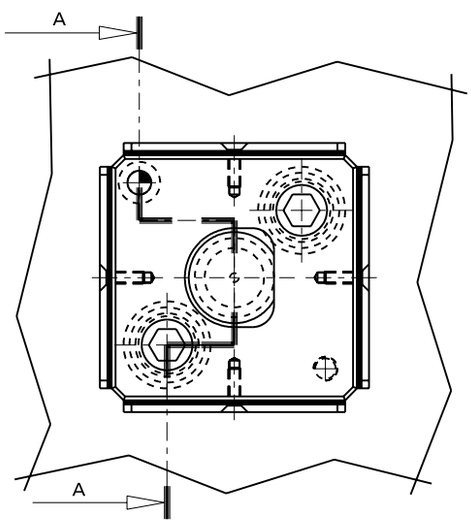
MODELLO "Z" / MODEL "Z"

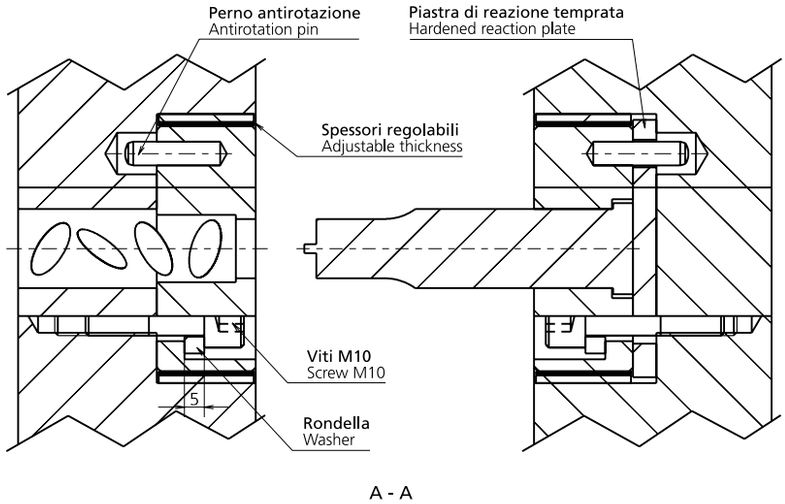
Porta punzone regolabile
Regolazione massima "X", "Y" ± 1 mm
Adjustable punch holder
Max regulation "X", "Y" ± 1 mm





Porta matrice regolabile
Regolazione massima "X", "Y" ± 1 mm
Adjustable matrix
Max regulation "X", "Y" ± 1 mm

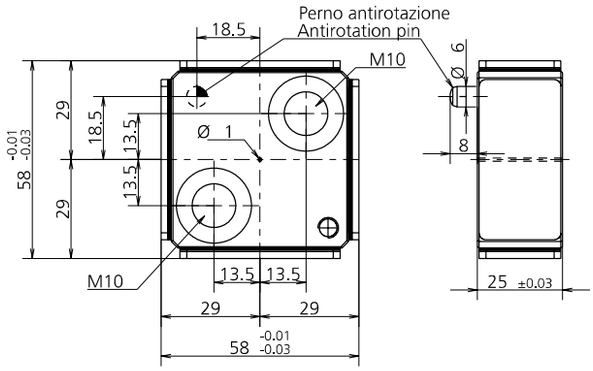




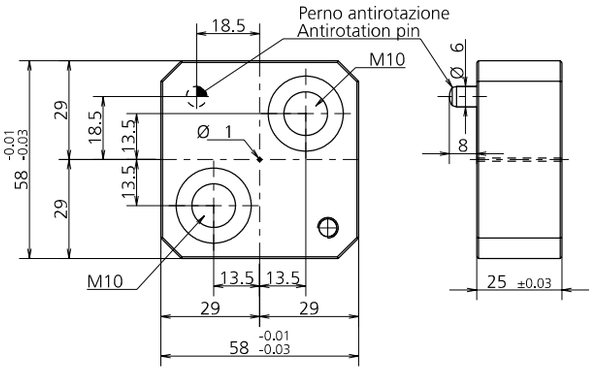
A - A

Viti, rondelle e piastrina di reazione sono comprese nella fornitura.
Fixing screws, washer and reaction plate are included in the delivery.

MATRICI REGOLABILI
ADJUSTABLE MATRIX

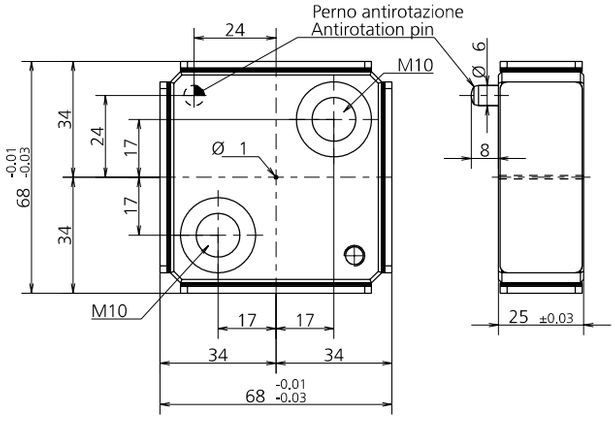


CODICE / CODE	DESCRIZIONE / DESCRIPTION
1075.0002	CON SPESSORI REGOLABILI WITH ADJUSTABLE THICKNESS

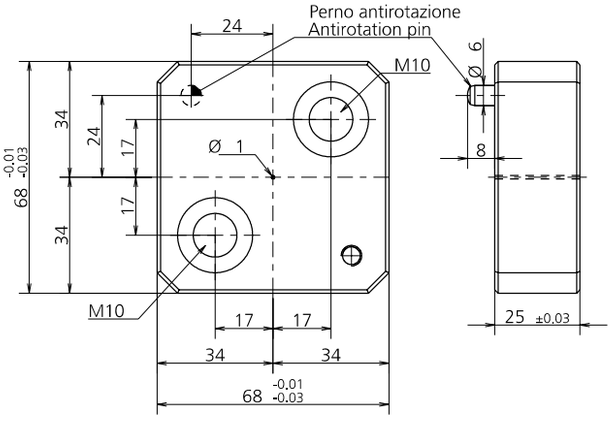


CODICE / CODE	DESCRIZIONE / DESCRIPTION
1075.0001	SENZA SPESSORI REGOLABILI WITHOUT ADJUSTABLE THICKNESS

KIT SPESSORI REGOLABILI / KIT ADJUSTABLE THICKNESS | CODICE / CODE 8123.1075

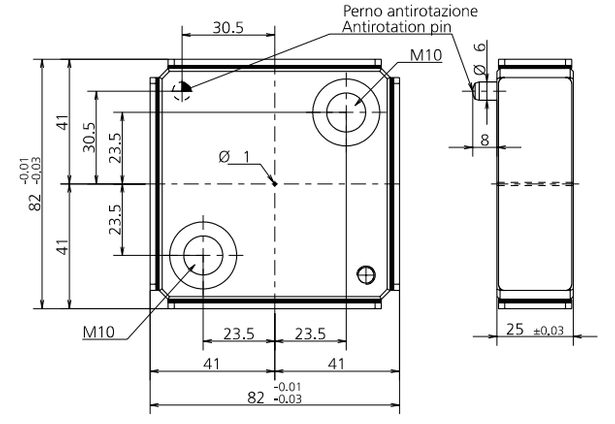


CODICE / CODE	DESCRIZIONE / DESCRIPTION
1076.0002	CON SPESSORI REGOLABILI WITH ADJUSTABLE THICKNESS

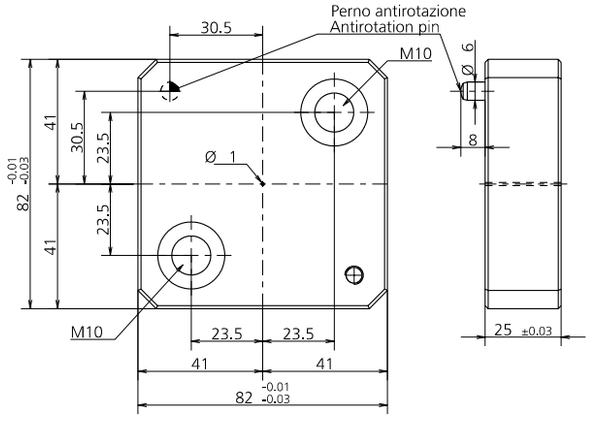


CODICE / CODE	DESCRIZIONE / DESCRIPTION
1076.0001	SENZA SPESSORI REGOLABILI WITHOUT ADJUSTABLE THICKNESS

KIT SPESSORI REGOLABILI / KIT ADJUSTABLE THICKNESS | CODICE / CODE 8123.1076



CODICE / CODE	DESCRIZIONE / DESCRIPTION
1077.0002	CON SPESSORI REGOLABILI WITH ADJUSTABLE THICKNESS

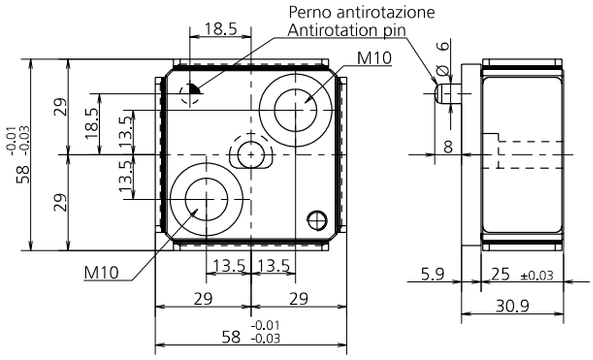


CODICE / CODE	DESCRIZIONE / DESCRIPTION
1077.0001	SENZA SPESSORI REGOLABILI WITHOUT ADJUSTABLE THICKNESS

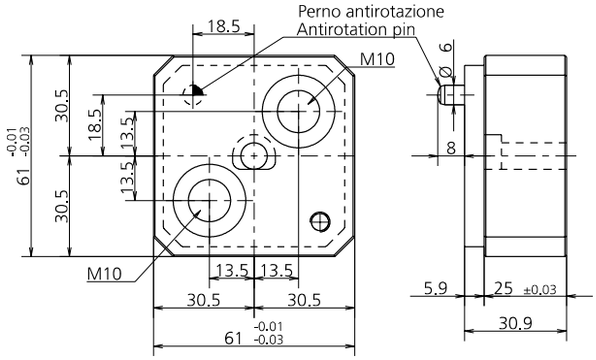
KIT SPESSORI REGOLABILI / KIT ADJUSTABLE THICKNESS | CODICE / CODE 8123.1077

PORTAPUNZONI REGOLABILI ISO8020 / PORTAMATRICI ISO8977

ADJUSTABLE PUNCH HOLDER ISO 8020 / MATRIX HOLDER ISO 8977

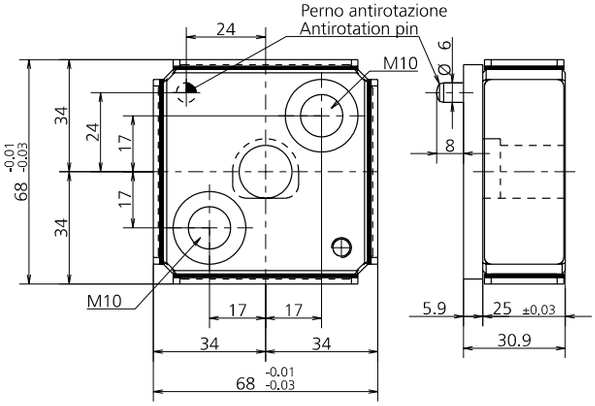


CODICE - con spessori regolabili CODE - with adjustable thickness	**PUNZONE** PUNCH	**MATRICE** MATRIX
1075.G105	ISO 8020 Ø5	\
1075.G106	ISO 8020 Ø6	\
1075.G108	ISO 8020 Ø8	ISO 8977 Ø8
1075.G110	ISO 8020 Ø10	ISO 8977 Ø10

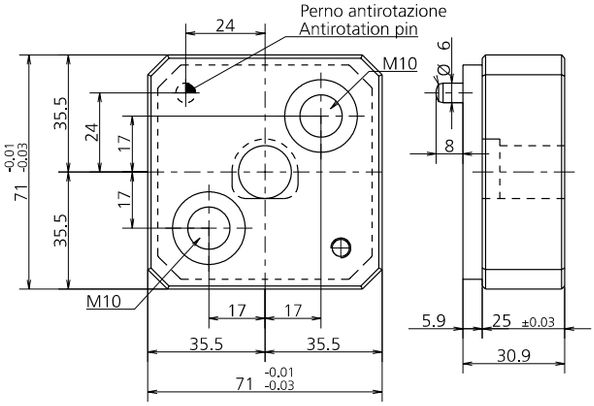


CODICE - senza spessori regolabili CODE - without adjustable thickness	**PUNZONE** PUNCH	**MATRICE** MATRIX
1075.H105	ISO 8020 Ø5	\
1075.H106	ISO 8020 Ø6	\
1075.H108	ISO 8020 Ø8	ISO 8977 Ø8
1075.H110	ISO 8020 Ø10	ISO 8977 Ø10

KIT SPESSORI REGOLABILI / KIT ADJUSTABLE THICKNESS | CODICE / CODE 8123.1075

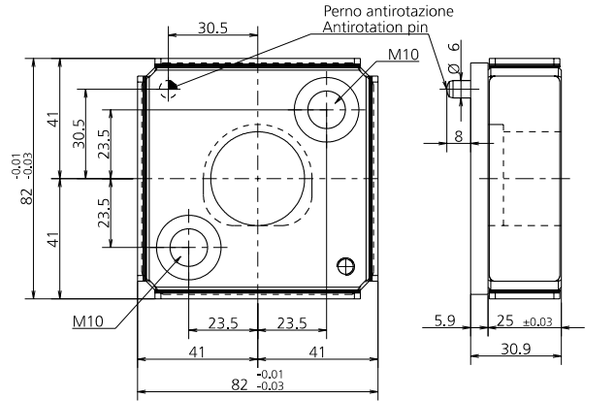


CODICE - con spessori regolabili CODE - with adjustable thickness	**PUNZONE** PUNCH	**MATRICE** MATRIX
1076.G113	ISO 8020 Ø13	ISO 8977 Ø13
1076.G116	ISO 8020 Ø16	ISO 8977 Ø16
1076.G120	ISO 8020 Ø20	ISO 8977 Ø20

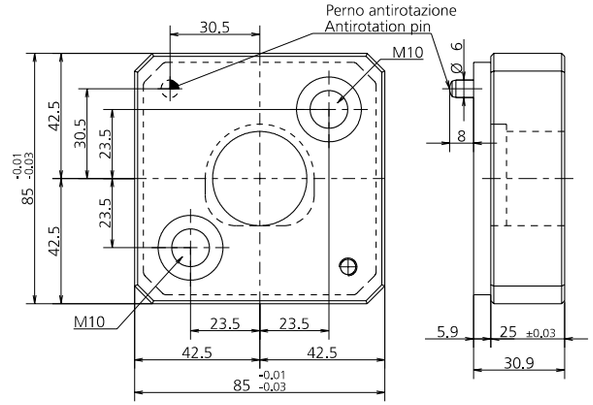


CODICE - senza spessori regolabili CODE - without adjustable thickness	**PUNZONE** PUNCH	**MATRICE** MATRIX
1076.H113	ISO 8020 Ø13	ISO 8977 Ø13
1076.H116	ISO 8020 Ø16	ISO 8977 Ø16
1076.H120	ISO 8020 Ø20	ISO 8977 Ø20

KIT SPESSORI REGOLABILI / KIT ADJUSTABLE THICKNESS | CODICE / CODE 8123.1076



CODICE - con spessori regolabili CODE - with adjustable thickness	**PUNZONE** PUNCH	**MATRICE** MATRIX
1077.G125	ISO 8020 Ø25	ISO 8977 Ø25
1077.G132	ISO 8020 Ø32	ISO 8977 Ø32
1077.G140	ISO 8020 Ø40	ISO 8977 Ø40

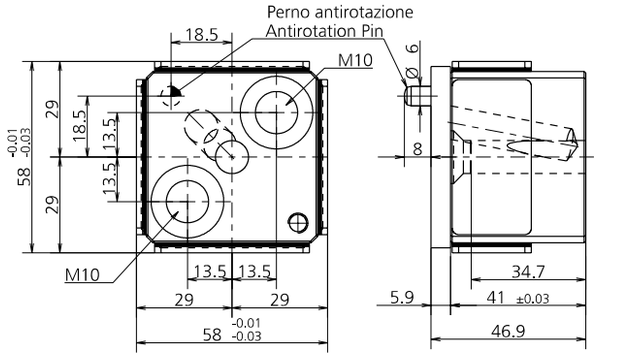


CODICE - senza spessori regolabili CODE - without adjustable thickness	**PUNZONE** PUNCH	**MATRICE** MATRIX
1077.H125	ISO 8020 Ø25	ISO 8977 Ø25
1077.H132	ISO 8020 Ø32	ISO 8977 Ø32
1077.H140	ISO 8020 Ø40	ISO 8977 Ø40

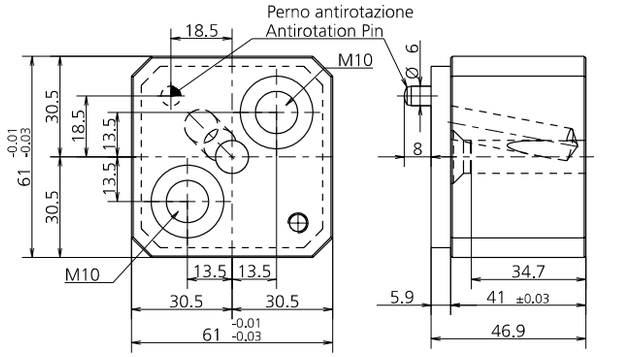
KIT SPESSORI REGOLABILI / KIT ADJUSTABLE THICKNESS | CODICE / CODE 8123.1077

PORTAPUNZONI REGOLABILI BALLOCK HEAVY DUTY

ADJUSTABLE PUNCH HOLDER BALLOCK HEAVY DUTY

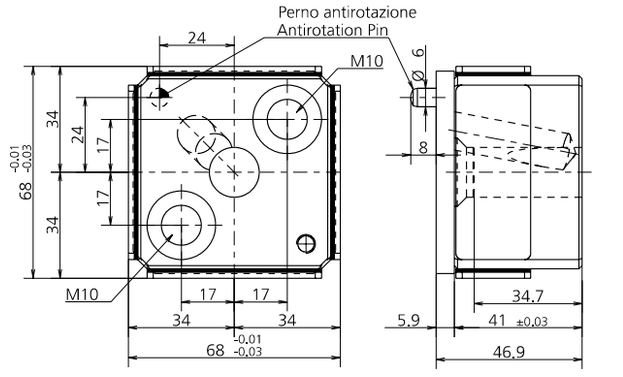


CODICE - con spessori regolabili CODE - with adjustable thickness	**PUNZONE** PUNCH
1075.G310	BALLOCK HEAVY DUTY Ø10

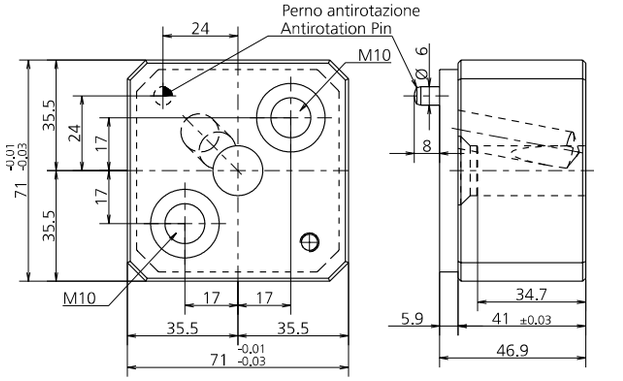


CODICE - senza spessori regolabili CODE - without adjustable thickness	**PUNZONE** PUNCH
1075.H310	BALLOCK HEAVY DUTY Ø10

KIT SPESSORI REGOLABILI / KIT ADJUSTABLE THICKNESS | CODICE / CODE 8123.1075

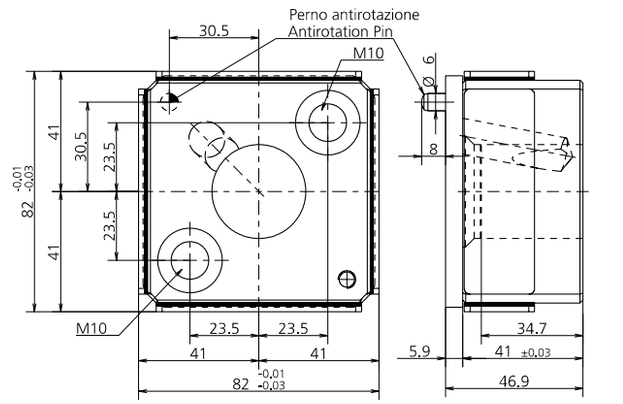


CODICE - con spessori regolabili CODE - with adjustable thickness	**PUNZONE** PUNCH
1076.G313	BALLOCK HEAVY DUTY Ø13
1076.G316	BALLOCK HEAVY DUTY Ø16
1076.G320	BALLOCK HEAVY DUTY Ø20

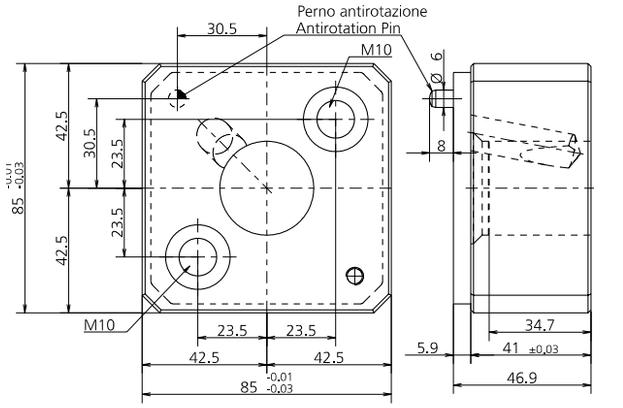


CODICE - senza spessori regolabili CODE - without adjustable thickness	**PUNZONE** PUNCH
1076.H313	BALLOCK HEAVY DUTY Ø13
1076.H316	BALLOCK HEAVY DUTY Ø16
1076.H320	BALLOCK HEAVY DUTY Ø20

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

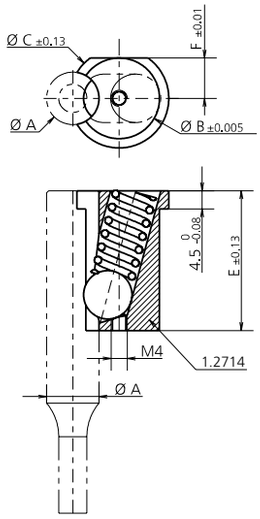


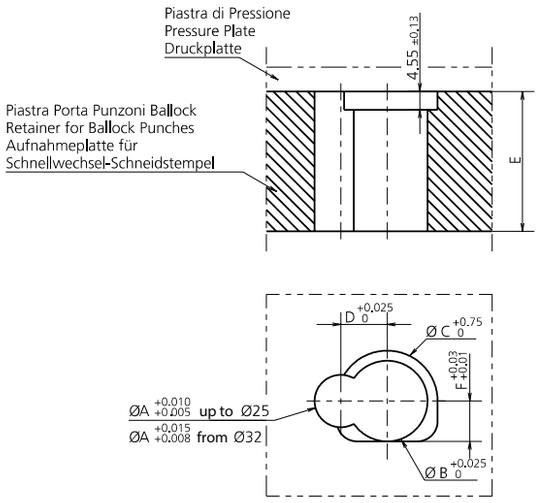
CODICE - senza spessori regolabili CODE - without adjustable thickness	**PUNZONE** PUNCH
1077.H325	BALLOCK HEAVY DUTY Ø25
1077.H332	BALLOCK HEAVY DUTY Ø32
1077.H340	BALLOCK HEAVY DUTY Ø40

KIT SPESSORI REGOLABILI / KIT ADJUSTABLE THICKNESS | CODICE / CODE 8123.1077

1051 - INSERTO DI FISSAGGIO PER BALLOCK HEAVY DUTY CON ANTIROTAZIONE – METRIC

BALLOCK INSERTS WITH ANTI-ROTATION SYSTEM FOR BALLOCK HEAVY DUTY - METRIC / BEFESTIGUNGSVORRICHTUNG MIT VERDREHSICHERUNG FÜR BALLOCK HEAVY DUTY - METRIC / INSERT DE FIXATION AVEC ANTI-ROTATION POUR BALLOCK HEAVY DUTY - METRIC





- APPROVED -

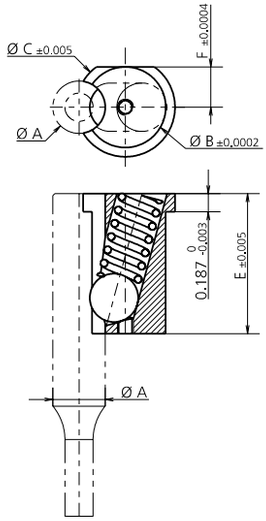
MODEL	Ø A	Ø B	Ø C	D	E	F
1051.0010	10	16	19.6	10	34.7	8
1051.0013	13	20	24.6	11.5	34.7	10
1051.0016	16	20	24.6	13	34.7	10
1051.0020	20	20	24.6	15	34.7	10
1051.0025	25	20	24.6	17.5	34.7	10
1051.0032	32	20	24.6	21	34.7	10
1051.0040	40	20	24.6	25	34.7	10

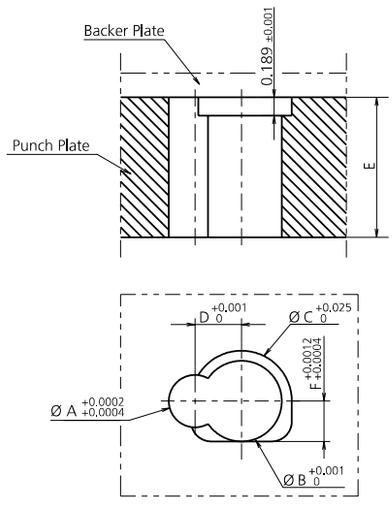
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1051** Ø DIAMETER PUNCH **0010**

1053 - INSERTO DI FISSAGGIO PER BALLOCK HEAVY DUTY CON ANTIROTAZIONE – INCH

BALLOCK INSERTS WITH ANTI-ROTATION SYSTEM FOR BALLOCK HEAVY DUTY - INCH / BEFESTIGUNGSVORRICHTUNG MIT VERDREHSICHERUNG FÜR BALLOCK HEAVY DUTY - INCH / INSERT DE FIXATION AVEC ANTI-ROTATION POUR BALLOCK HEAVY DUTY – INCH





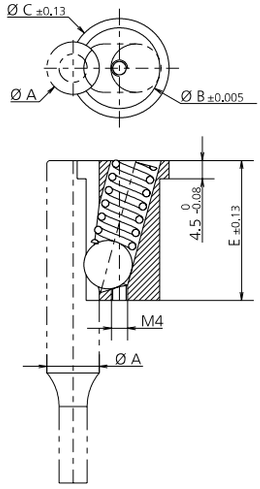
MODEL	Ø A	Ø B	Ø C	D	E	F
1053.0037	0.375"	0.6255"	0.735"	0.375"	1.38"	0.3127"
1053.0050	0.5"	0.813"	0.98"	0.48"	1.38"	0.4065"
1053.0062	0.625"	0.813"	0.98"	0.543"	1.38"	0.4065"
1053.0075	0.75"	0.813"	0.98"	0.605"	1.38"	0.4065"
1053.0087	0.875"	0.813"	0.98"	0.668"	1.38"	0.4065"
1053.0100	1"	0.813"	0.98"	0.73"	1.38"	0.4065"
1053.0125	1.25"	0.813"	0.98"	0.855"	1.38"	0.4065"

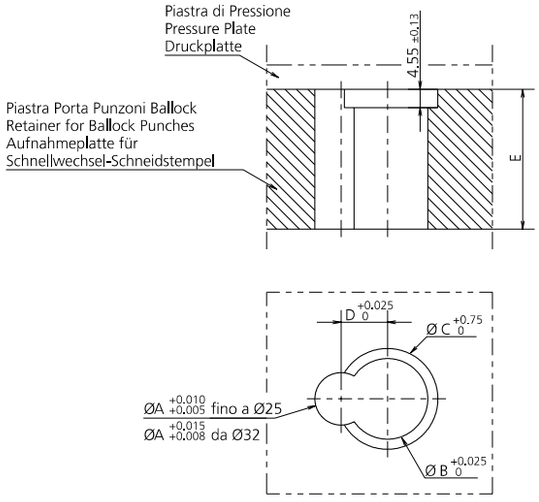
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1053** Ø DIAMETER PUNCH **0050 (0.5'')**

1055 - INSERTO DI FISSAGGIO PER BALLOCK HEAVY DUTY – METRIC

BALLOCK INSERTS FOR BALLOCK HEAVY DUTY - METRIC / BEFESTIGUNGSVORRICHTUNG FÜR BALLOCK HEAVY DUTY / METRIC INSERT DE FIXATION POUR BALLOCK HEAVY DUTY - METRIC





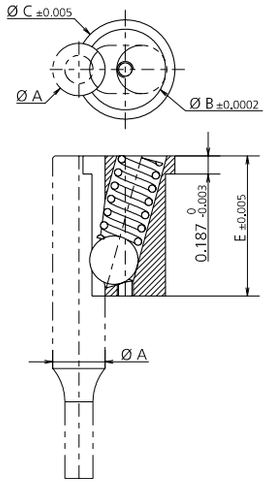
MODEL	Ø A	Ø B	Ø C	D	E
1055.0010	10	16	19.6	10	34.7
1055.0013	13	20	20.4	11.5	34.7
1055.0016	16	20	20.4	13	34.7
1055.0020	20	20	20.4	15	34.7
1055.0025	25	20	20.4	17.5	34.7
1055.0032	32	20	20.4	21	34.7
1055.0040	40	20	20.4	25	34.7

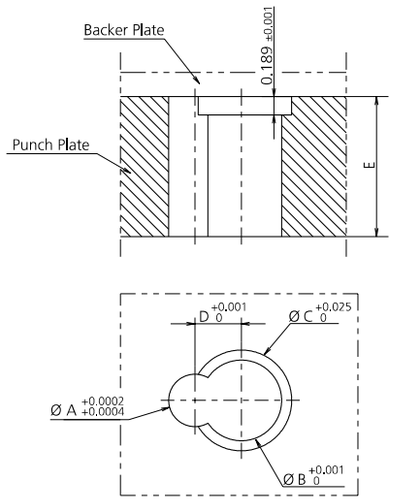
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1055** Ø DIAMETER PUNCH **0010**

1057 - INSERTO DI FISSAGGIO PER BALLOCK HEAVY DUTY - INCH

BALLOCK INSERTS FOR BALLOCK HEAVY DUTY - INCH / BEFESTIGUNGSVORRICHTUNG FÜR BALLOCK HEAVY DUTY – INCH / INSERT DE FIXATION POUR BALLOCK HEAVY DUTY – INCH





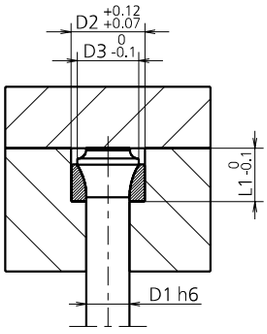
MODEL	Ø A	Ø B	Ø C	D	E
1057.0037	0.375"	0.6255"	0.735"	0.375"	1.38"
1057.0050	0.5"	0.813"	0.98"	0.48"	1.38"
1057.0062	0.625"	0.813"	0.98"	0.543"	1.38"
1057.0075	0.75"	0.813"	0.98"	0.605"	1.38"
1057.0087	0.875"	0.813"	0.98"	0.668"	1.38"
1057.0100	1"	0.813"	0.98"	0.73"	1.38"
1057.0125	1.25"	0.813"	0.98"	0.855"	1.38"

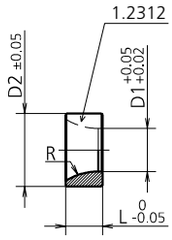
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1057** Ø DIAMETER PUNCH **0050 (0.5'')**

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

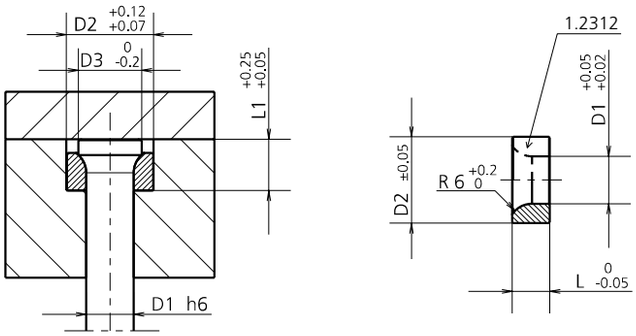
MODEL	D1	R	D2	D3	L	L1
1061.0145	14.5	15	21.8	19	9	13
1061.0146	14.6	15	21.8	19	9	13
1061.0147	14.7	15	21.8	19	9	13
1061.0148	14.8	15	21.8	19	9	13
1061.0149	14.9	15	21.8	19	9	13
1061.0150	15	15	21.8	19	9	13
1061.0151	15.1	15	21.8	19	9	13
1061.0152	15.2	15	21.8	19	9	13
1061.0153	15.3	15	21.8	19	9	13
1061.0154	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 VERSTÄRKTE 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

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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.

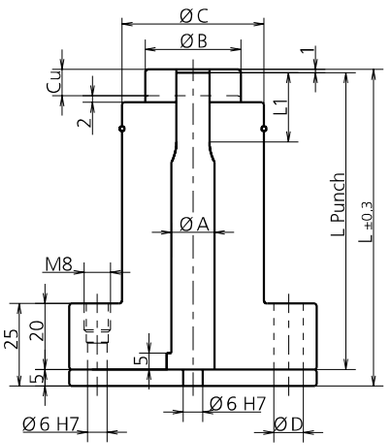
PRODUCT DESIGNED AND MANUFACTURED IN ITALY · RIGHT USE AND MAINTENANCE LONG TERM · PRODUCT AVAILABLE ON STOCK · COMPETITIVE PRICE

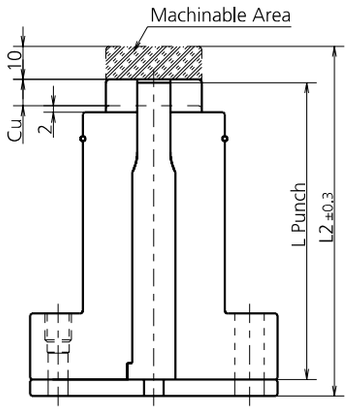
PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE

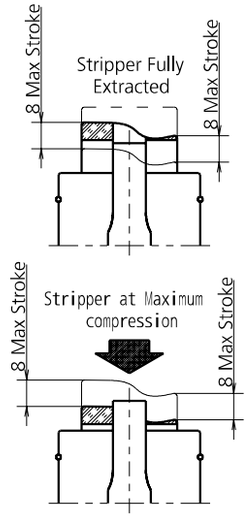
LONG DURATION · UNIQUENESS OF THE PRODUCT · PATENT PENDING · EASINESS OF DISASSEMBLY AND MAINTENANCE · HIGH QUALITY MATERIALS · MINIMUM SIZE

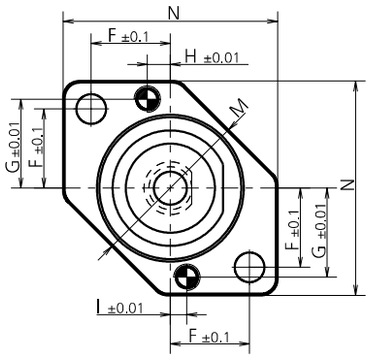
1501 - UNITÀ DI PUNZONATURA AD AZOTO

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 REF. NEXT PAGE

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

MODEL **1501.4004** OPTION CODE **9016/8016.__**

9016/8016 - **PREMILAMIERA CILINDRICA**

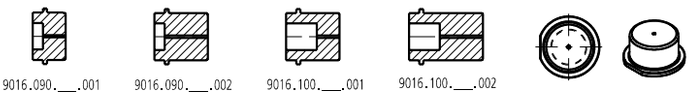
BLANKHOLDER / BLECHHALTER / SERRE-FLAN CYLINDRIQUE

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

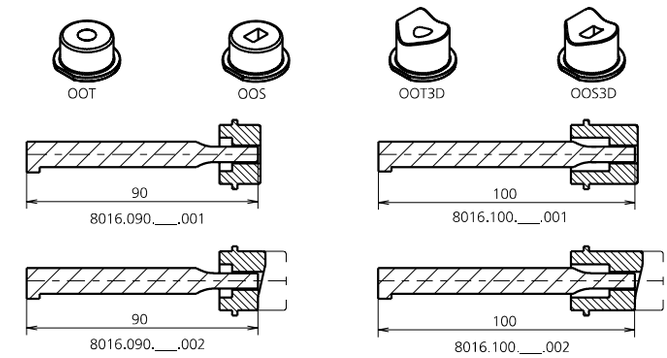
CODE	DESCRIPTION	Q.TY
9016.100.032.001	PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 100MM Ø32	1*CHOOSE
9016.100.032.002	PREMILAMIERA LUNGO / LONG BLANKHOLDER / LANG BLECHHALTER 100MM Ø32	1*CHOOSE
8016.090.032.001	PREMILAMIERA CORTO / SHORT BLANKHOLDER / KURZ BLECHHALTER 90MM Ø32	1*CHOOSE
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

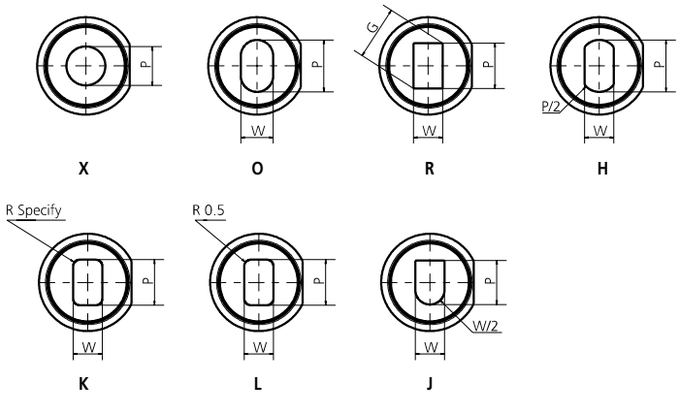
BRONZE = BRAL 5275



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

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

MODEL **9016.090.010.001**

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

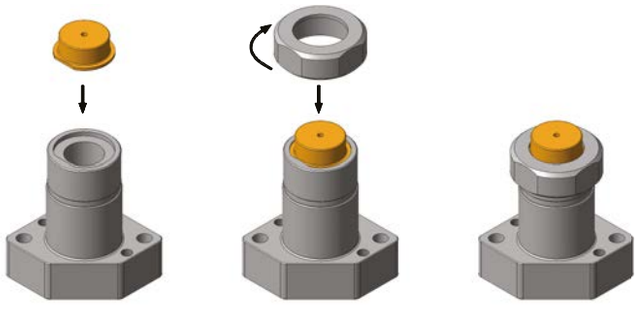
In order to shape the head:
- remove it from the unit;
- insert the head into the special device;
- tighten the locking ring nut;
- place the device on the machine stain, EDM or tool plate to perform the required shape;
- put back together the head with the body.

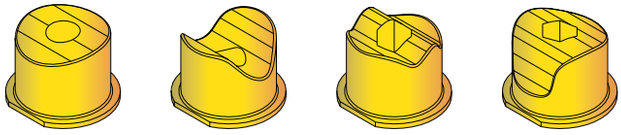
ACHTUNG

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.

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.





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

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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-Rotationssystem versehen.

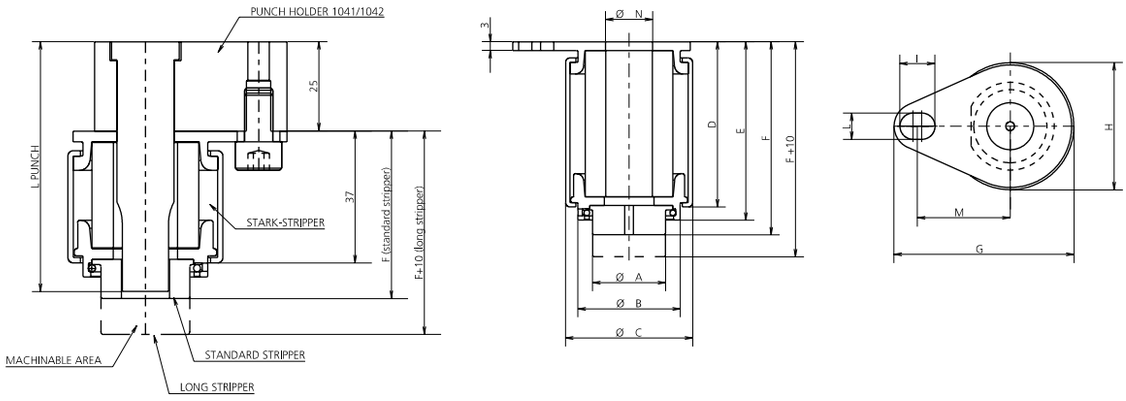
FR Dispositifs applicables à la plupart des porte-poinçons présent sur le marché, à tête cylindrique ou Ballock (Light-Heavy Duty), qui permettent d'extraire le poinçon de la tôle en garantissant la résistance et la sécurité avec des dimensions d'encombrement minimales. Ces extracteurs, grâce à la haute 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.

- APPROVED -

JLR

PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE

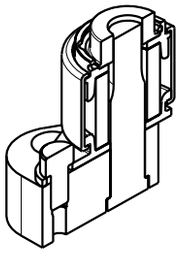
1101 - STARK STRIPPERS PER PORTA PUNZONI A TESTA CILINDRICA ISO 8020



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

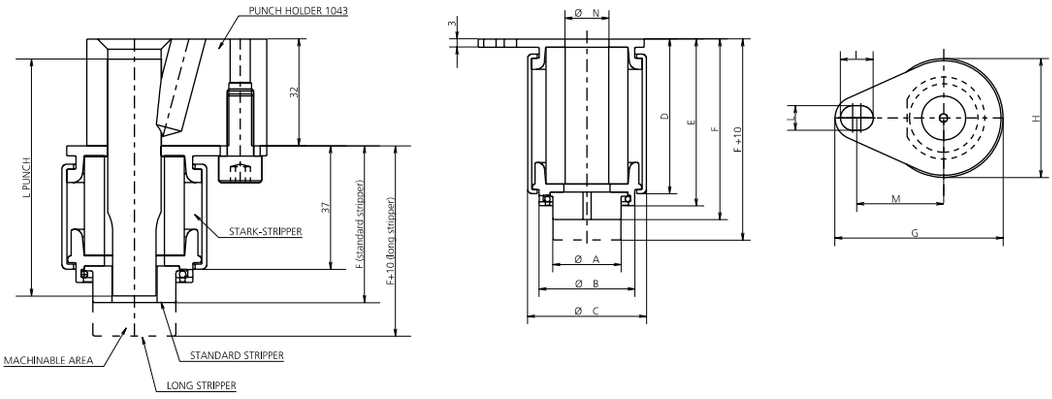


Ø		PUNCH'S LENGTH			
		70/71	80	90	100
10	1101.0010 +	8058.1010.002 (STANDARD STRIPPER)	8058.1020.002 (STANDARD STRIPPER)	8058.1030.002 (STANDARD STRIPPER)	8058.1040.002 (STANDARD STRIPPER)
		8058.1020.001 (LONG STRIPPER)	8058.1030.001 (LONG STRIPPER)	8058.1040.001 (LONG STRIPPER)	8058.1050.002 (LONG 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)	8058.1350.002 (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)	8058.1650.002 (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)	8058.2050.002 (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)	8058.2550.002 (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)	8058.3250.002 (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)	8058.4050.002 (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 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)

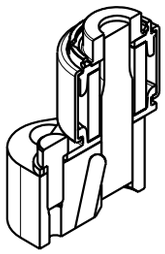
1101 - STARK STRIPPERS PER PORTA PUNZONI BALLOCK LIGHT DUTY



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

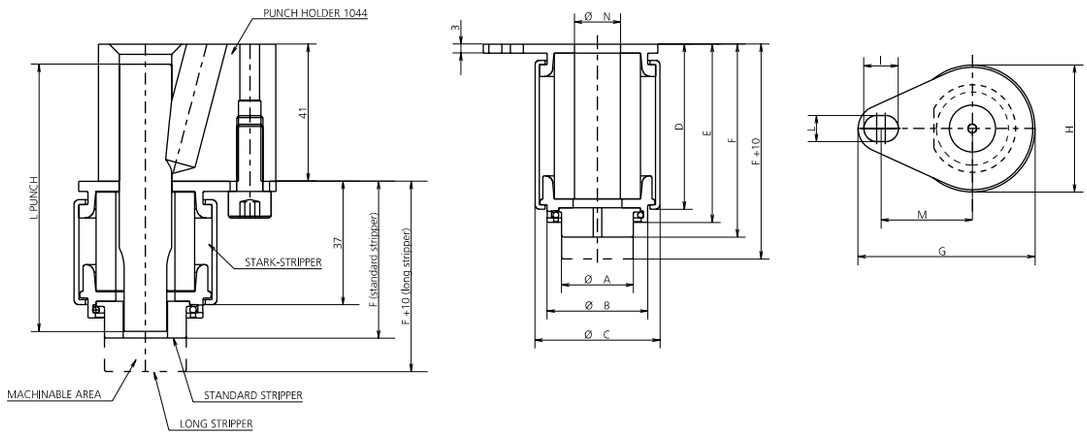


Ø		PUNCH'S LENGTH			
		70/71	80	90	100
10	1101.0010 +	8058.1010.002 (STANDARD STRIPPER)	8058.1020.002 (STANDARD STRIPPER)	8058.1030.002 (STANDARD STRIPPER)	8058.1040.002 (STANDARD STRIPPER)
		8058.1020.001 (LONG STRIPPER)	8058.1030.001 (LONG STRIPPER)	8058.1040.001 (LONG STRIPPER)	8058.1050.002 (LONG 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)	8058.1350.002 (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)	8058.1650.002 (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)	8058.2050.002 (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)	8058.2550.002 (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)	8058.3250.002 (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)	8058.4050.002 (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)

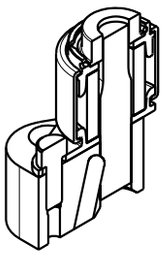
1101 - STARK STRIPPERS PER PORTA PUNZONI BALLOCK HEAVY DUTY



BALLOCK HEAVY DUTY

MODEL	Ø PUNCH	Ø A	Ø B	Ø C	D	E	F			G	H	I	L	M	Ø N	MAX STROKE	EXTRACTION FORCE daN	
							Pun. L=80	Pun. L=90	Pun. L=100								F0	F1
1101.0010	10	16	25	33	37	40.5	47	56	66	51.5	33	12	9	26.925	10.1	8	20	135
1101.0013	13	20	34	42	37	41	47	56	66	59	42	12	9	30	13.1	8	25	230
1101.0016	16	25	39	47.5	37	41	47	56	66	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	68	53	12	9	33.5	20.1	8	90	750
1101.0025	25	44	57.5	67	37	42	47	56	66	82	67	12	9	40.65	25.1	8	90	1000
1101.0032	32	44	57.5	67	37	42	47	56	66	82	67	12	9	40.65	32.1	8	120	800
1101.0040	40	48	65	73.5	37	42.5	47	56	66	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



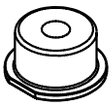
Ø		PUNCH'S LENGTH		
		80	90	100
10	1101.0010 +	8058.1010.002 (STANDARD STRIPPER)	8058.1020.002 (STANDARD STRIPPER)	8058.1030.002 (STANDARD STRIPPER)
		8058.1020.001 (LONG STRIPPER)	8058.1030.001 (LONG STRIPPER)	8058.1040.001 (LONG STRIPPER)
13	1101.0013 +	8058.1310.002 (STANDARD STRIPPER)	8058.1320.002 (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'.

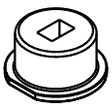
ESEMPIO DI ORDINE: / ORDER EXAMPLE: / BESTELLBEISPIEL:
Punzone Ø13 lunghezza 90: Stark stripper 1101.0013 + 8058.1320.002 (se necessarie specificare le lavorazioni come descritto alla pagina dedicata "8058 – PREMILAMIERA")
Punch Ø13 length 90: Stark stripper 1101.0013 + 8058.1320.002 (if necessary, specify 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 - PREMILAMIERA / / BLANK HOLDER / BLECHPRESSPLATTE

8058.____.____ : Testina premilamiera sbozzata / Blank head / Rohling blechhalterkopf (vedi codici nelle pagine precedenti / see codes on previous pages / siehe Codes auf den vorherigen Seiten)



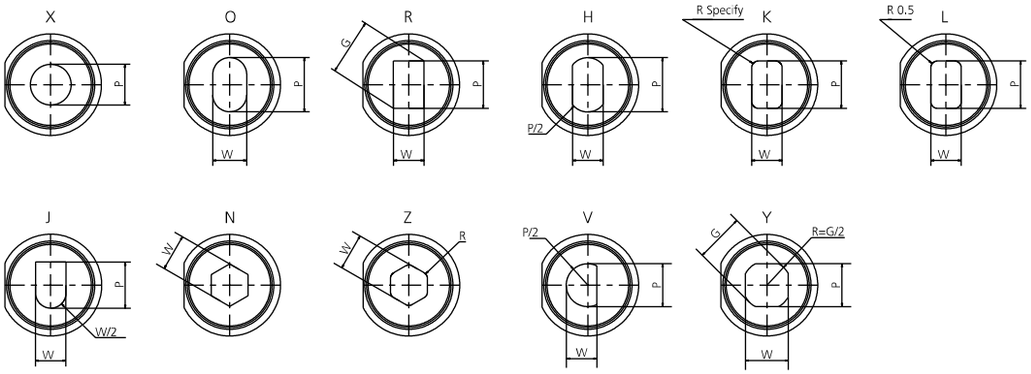
00T : Testina premilamiera con foratura tonda / Blank holder head with round hole / Rohlingshalterkopf mit rundem Loch (shape X)



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)

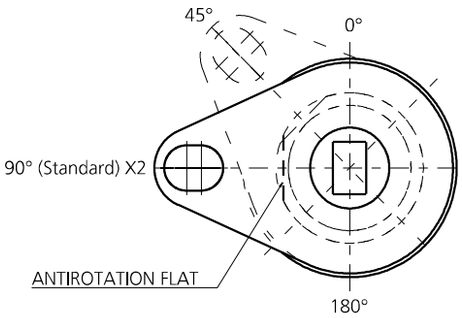
00T3D : Testina premilamiera con foratura tonda (shape X) e lavorazione 3D / Blank holder head with round drilling (shape X) and 3D machining / Rohlingshalterkopf mit Rundbohrung und 3D-Bearbeitung

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 sbozzato 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 sbozzato lungo / Punch ISO 8020 Ø25 length 80 with long blank holder
Stanze 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 TÈTE

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

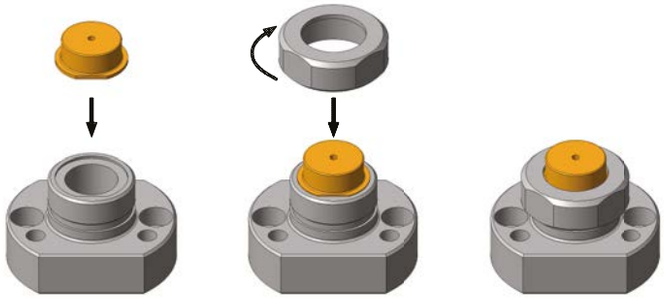
In order to shape the head:
- remove it from the stripper;
- insert the head into the special device;
- tighten the locking ring nut;
- place the device on the machine staim, EDM or tool plate to perform the required shape;
- put back together the head with the body.

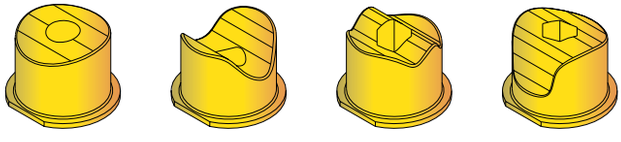
ACHTUNG

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.

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.





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

UNITÁ DI PIEGA / BENDING UNITS / ROLLBIEGER
UNITÉ DE PLIAGE

100% CUSTOMISABLE PRODUCT

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ROLL

UNITÁ 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 ±0,5°. 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 ±0,5°. 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 ±0,5°. 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 ±0,5°. Le produit est breveté.

- APPROVED -

JLR

PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE

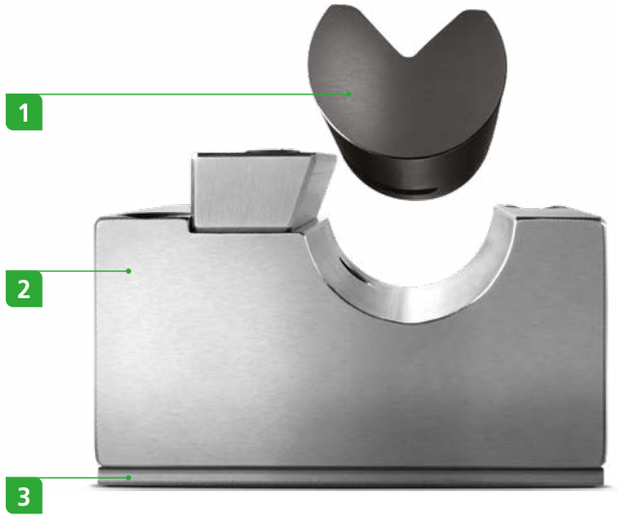
SPECIAL GEOMETRIES AND LENGTHS (600 mm+)
AFTER CONSULTING NEWSTARK'S TECHNICAL DEPARTMENT

STANDARD HIGH PERFORMANCE ROLL

MODELLO AD **ALTE PRESTAZIONI** / **HIGH PERFORMANCE** MODEL

- **1**. **Rotante temprato** con **rivestimento autolubrificante**;
- **2**. **Corpo temprato** (58 HRC);
- **3**. **Piastrina di regolazione** inclusa;
- Ideale per **produzioni ad alto volume > 1.000.000 di pezzi**;
- **Consegna in 3/4 settimane**;
- Realizzato **su misura**.

- **1**. Hardened rocker + Self-lub coating;
- **2**. Hardened saddle (58 HRC);
- **3**. Adjustable backing plate included;
- Idear for High-Volume production > 1.000.000 parts;
- 3/4 Weeks delivery;
- Custom made.

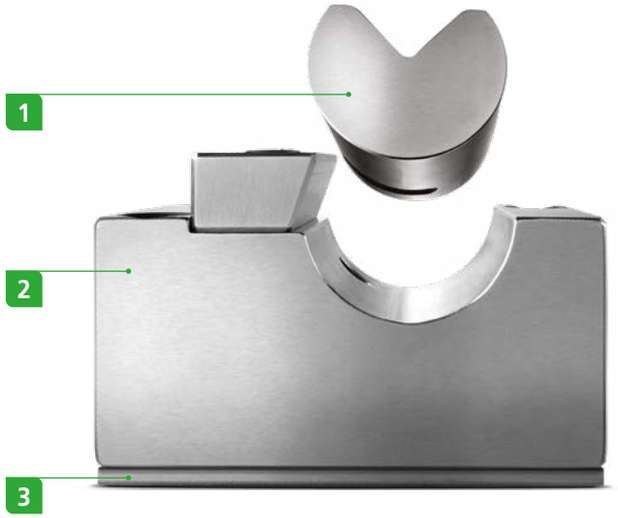


ECO ROLL

MODELLO "**E**" / "**E**" MODEL

- **1**. **Rotante temprato**;
- **2**. **Corpo temprato** (44 HRC);
- **3**. **Piastrina di regolazione** inclusa;
- Ideale per **produzioni fino a 500.000 pezzi**;
- **Consegna in 2/3 settimane**;
- Realizzato **su misura**;
- Soluzione **più economica**;
- **Impatto ambientale ridotto**.

- **1**. Hardened rocker;
- **2**. Hardened saddle (44 HRC);
- **3**. Adjustable backing plate included;
- Idear for productions up to 500.000 parts;
- 2/3 Weeks delivery;
- Custom made;
- Cost-effective solution;
- Reduced environmental impact.



Le unità di piega Newstark sono sempre realizzate su ordinazione. È possibile scegliere lunghezza, geometrie speciali e caratteristiche aggiuntive contattando Newstark all'indirizzo **sales@newstark.it**.

IN FASE D'ORDINE PER IL MODELLO ECO, SOSTITUIRE IL PRIMO ZERO CON LA LETTERA "E" AL CODICE DELL'UNITÀ DI PIEGA (ES. E201).

Newstark benders are always manufactured upon order. Length, special geometries, and additional features can be customized upon request by contacting Newstark at **sales@newstark.it**.

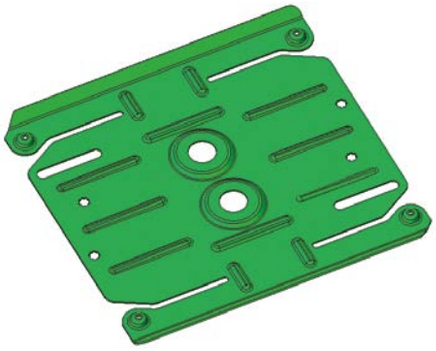
FOR ORDER THE ECO MODEL, REPLACE THE FIRST ZERO WITH THE LETTER "E" IN THE FOLDING UNIT CODE (ES. E201).

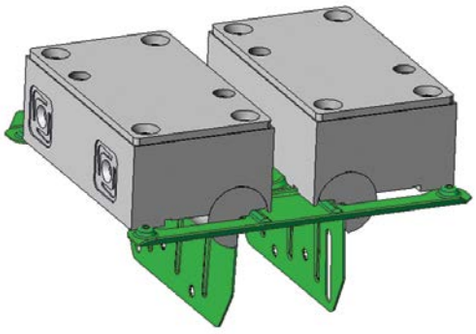
GEOMETRIE SPECIALI

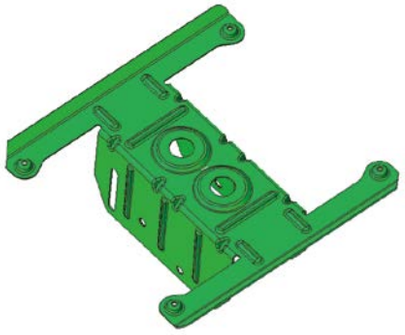
SPECIAL GEOMETRIES

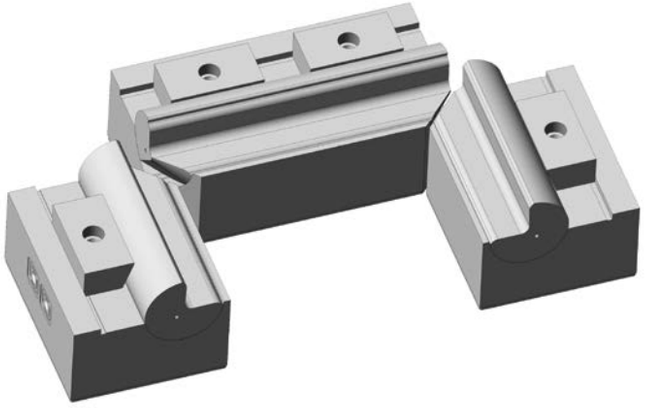
Ogni **ROLL** può essere realizzato su misura e con geometrie speciali: **fori di fissaggio, lunghezze, geometrie e particolari aggiuntivi** possono essere personalizzati previo confronto con l'ufficio tecnico Newstark: **sales@newstark.it**

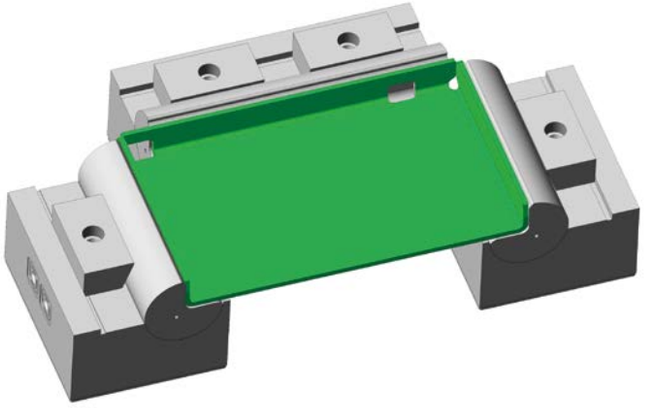
Each **ROLL** can be custom-made with special geometries: **mounting holes, lengths, geometries, and additional features** can be customized after consultation with the Newstark technical office: **sales@newstark.it**











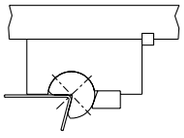
ROLL

SCEGLIERE LA PROPRIA APPLICAZIONE / PLEASE DESCRIBE YOUR APPLICATION
BITTE BESCHREIBEN SIE IHRE ANWENDUNG / CHOISIR L'APPLICATION

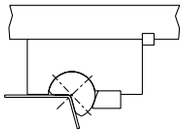
MODELLO / MODEL / MODELL
MODÈLE ☐ **01 = ROLLA** ☐ **02 = ROLLB** ☐ **03 = ROLLC** ☐ **04 = ROLLD** ☐ **05 = ROLLE**

DIAMETRO / DIAMETER / DURCHMESSER
DIAMÈTRE ☐ **Ø15** ☐ **Ø25** ☐ **Ø40** ☐ **Ø50** ☐ **Ø65** ☐ **Ø75** ☐ **Ø100**

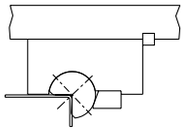
TIPO DI PIEGA / TYPE OF BEND / TYP FÜR BIEGUNG / TYPE DE PLIAGE



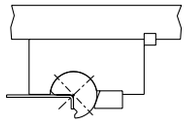
01 = TD
PIEGA SOTTOSQUADRA
ANGLE BEND / ÜBERBIEGUNG
PLIAGE CONTRE-DÉPOUILLE



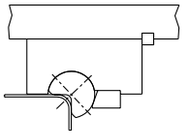
02 = TE
PIEGA APERTA
OPENED BEND / OFFENE BIEGUNG
PLIAGE OUVERT



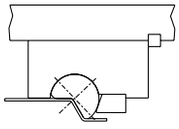
03 = TI
PIEGA NORMALE
NORMAL BEND / NORMALE BIEGUNG
PLIAGE NORMAL



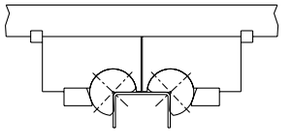
04 = TA
PIEGA CON BORDO CORTO
BEND WITH SHORT EDGE / BIEGUNG MIT KURZEM SCHENKEL / PLIAGE À BORD COURT



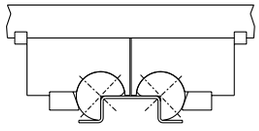
05 = TB
PIEGA AD AMPIO RAGGIO
BEND WITH WIDE RADIUS / BIEGUNG MIT WEITEM RADIUS / PLIAGE À LARGE RAYON



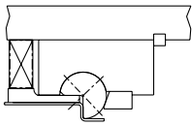
06 = TH
PIEGA A "Z" APERTA
OPENED "Z" BEND / OFFENE "Z" BIEGUNG / PLIAGE EN "Z" OUVERT



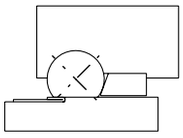
07 = TC
DOPPIA PIEGA
DOUBLE BEND / DOPPELTE BIEGUNG
DOUBLE PLIAGE



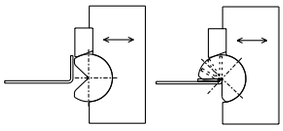
08 = TG
DOPPIA PIEGA APERTA A "Z"
DOUBLE OPENED "Z" BEND
DOPPELTE "Z" BIEGUNG
DOUBLE PLIAGE OUVERT EN "Z"



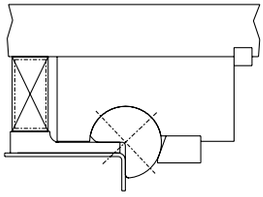
09 = TF
PIEGA A "Z"
"Z" BEND / "Z" BIEGUNG
PLIAGE EN "Z"

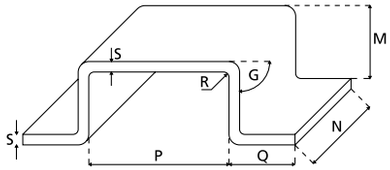


10 = TL
PIEGA SCHIACCIATA
CRUSHED BEND / FALTUNG
PLIAGE ÉCRASÉ



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/mm² _____

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

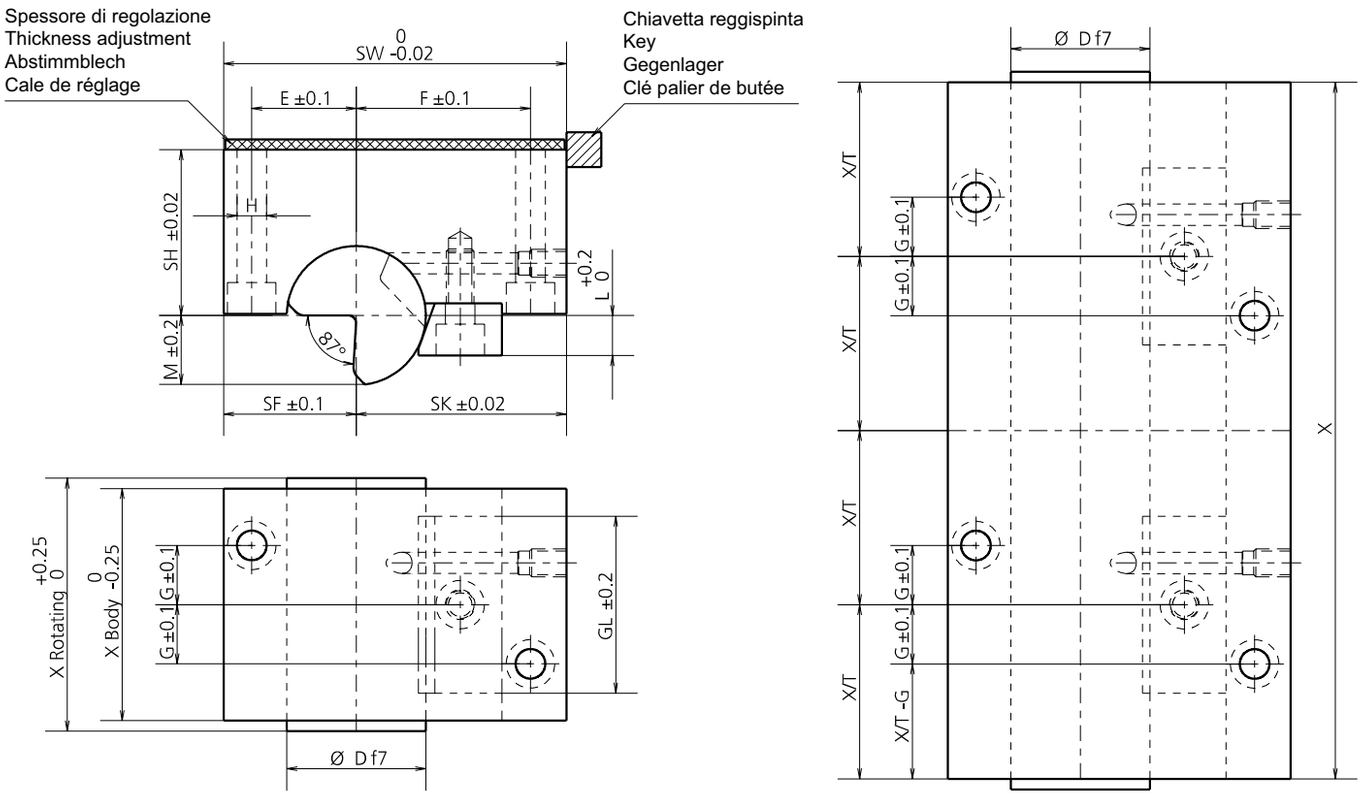
PER RICAMBI INDICARE LA COMMESSA MARCHIATA SUL PRODOTTO _____
FOR SPARE PARTS INDICATE THE PROJECT NUMBER MARKED ON THE PRODUCT / BEI ERSATZTEILEN KENNZEICHNEN SIE DIE PROJEKTNUMMER AUF DEM PRODUKT
POUR LES PIÈCES DE RECHANGE INDIQUER LA COMMANDE MARQUÉE SUR LE PRODUIT

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

STD MODEL	**0201**	TYPE BEND	**03**	Ø DIAMETER	**Ø50**	LENGHT	**500**	ANGLE	**90°**
ECO MODEL	**E201**	TYPE BEND	**03**	Ø DIAMETER	**Ø50**	LENGHT	**500**	ANGLE	**90°**

0201 - **ROLL A - METRIC**

PATENT PENDING



MODEL	X	X/T	BRACKETS	X	X/T	BRACKETS	X	X/T	BRACKETS	X	X/T	BRACKETS	X	X/T	BRACKETS	G	E	F
0201....15	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	13.5	29.5
0201....25	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	20.5	37.5
0201....40	132-260	X/4	2	262-390	X/6	3	392-520	X/8	4	522-600	X/10	5	/	/	/	22	30	48
0201....50	152-300	X/4	2	302-450	X/6	3	452-600	X/8	4	/	/	/	/	/	/	26	36	65
0201....65	182-360	X/4	2	362-540	X/6	3	542-600	X/8	4	/	/	/	/	/	/	32	44	80
0201....75	202-400	X/4	2	402-600	X/6	3	/	/	/	/	/	/	/	/	/	35	55	90
0201....100	241-480	X/4	2	482-600	X/6	3	/	/	/	/	/	/	/	/	/	45	64	104

	0201....15	0201....25	0201....40	0201....50	0201....65	0201....75	0201....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	30-420	40-600	40-600	50-600	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	54	73	98	123	148	175	196
(SF) DIST. MIN. ROTANTE-FRONTE / DIST. MIN. ROTATING BODY-FRONT PART / ABSTAND MIN. DREHKÖRPER	19	28	40	47	56	70	78
(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 / BEFESTIGUNGSPOSITION	13.5	20.5	30	36	44	55	64
(F) POSIZIONE DEI FISSAGGI / POSITION OF THE FIXING / BEFESTIGUNGSPOSITION	29.5	37.5	48	65	80	90	104
(G) POSIZIONE DEI FISSAGGI / POSITION OF THE FIXING / BEFESTIGUNGSPOSITION	14.5	17.5	22	26	32	35	45

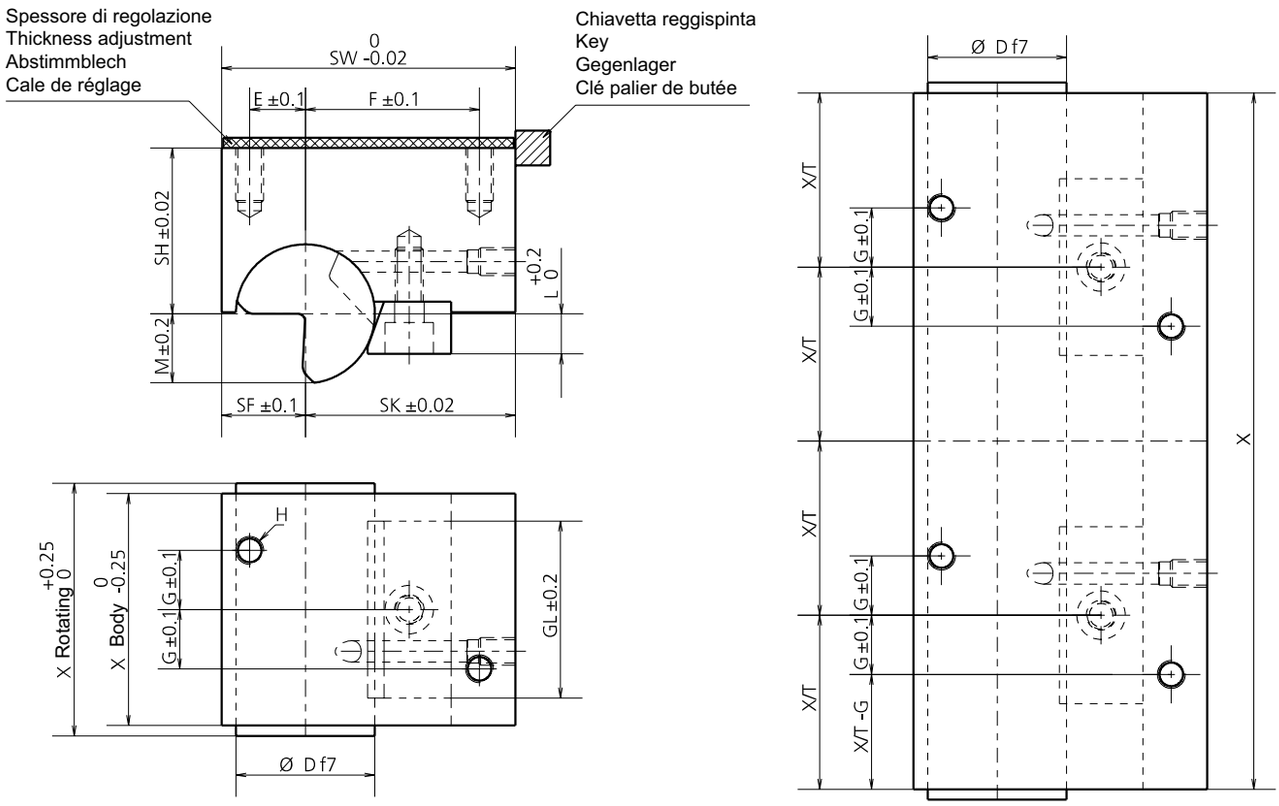
Può lavorare anche senza lubrificazione / It works also without lubrification / Es funktioniert auch ohne Schmierung / Il peut fonctionnement sans lubrification

SPECIAL GEOMETRIES AND LENGTHS (600 mm+) AFTER CONSULTING NEWSTARK'S TECHNICAL DEPARTMENT

***STANDARD* MODEL** ≥ 1M STROKES
***ECO* MODEL** UP TO 500K STROKES

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

STD MODEL	**0201**	TYPE BEND	**03**	Ø DIAMETER	**Ø50**	LENGHT	**500**	ANGLE	**90°**
ECO MODEL	**E201**	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
0202....15	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
0202....25	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
0202....40	132-260	X/4	2	262-390	X/6	3	392-520	X/8	4	522-600	X/10	5	/	/	/	22	15	48
0202....50	152-300	X/4	2	302-450	X/6	3	452-600	X/8	4	/	/	/	/	/	/	26	19	65
0202....65	182-360	X/4	2	362-540	X/6	3	542-600	X/8	4	/	/	/	/	/	/	32	25	80
0202....75	202-400	X/4	2	402-600	X/6	3	/	/	/	/	/	/	/	/	/	35	32	90
0202....100	241-480	X/4	2	482-600	X/6	3	/	/	/	/	/	/	/	/	/	45	46	104

	0202....15	0202....25	0202....40	0202....50	0202....65	0202....75	0202....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	44	59	84	106	131	149	178
(SF) DIST. MIN. ROTANTE-FRONTE / 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 / BEFESTIGUNGSPOSITION	4.5	7.5	15	19	25	32	46
(F) POSIZIONE DEI FISSAGGI / POSITION OF THE FIXING / BEFESTIGUNGSPOSITION	29.5	37.5	48	65	80	90	104
(G) POSIZIONE DEI FISSAGGI / POSITION OF THE FIXING / BEFESTIGUNGSPOSITION	14.5	17.5	22	26	32	35	45

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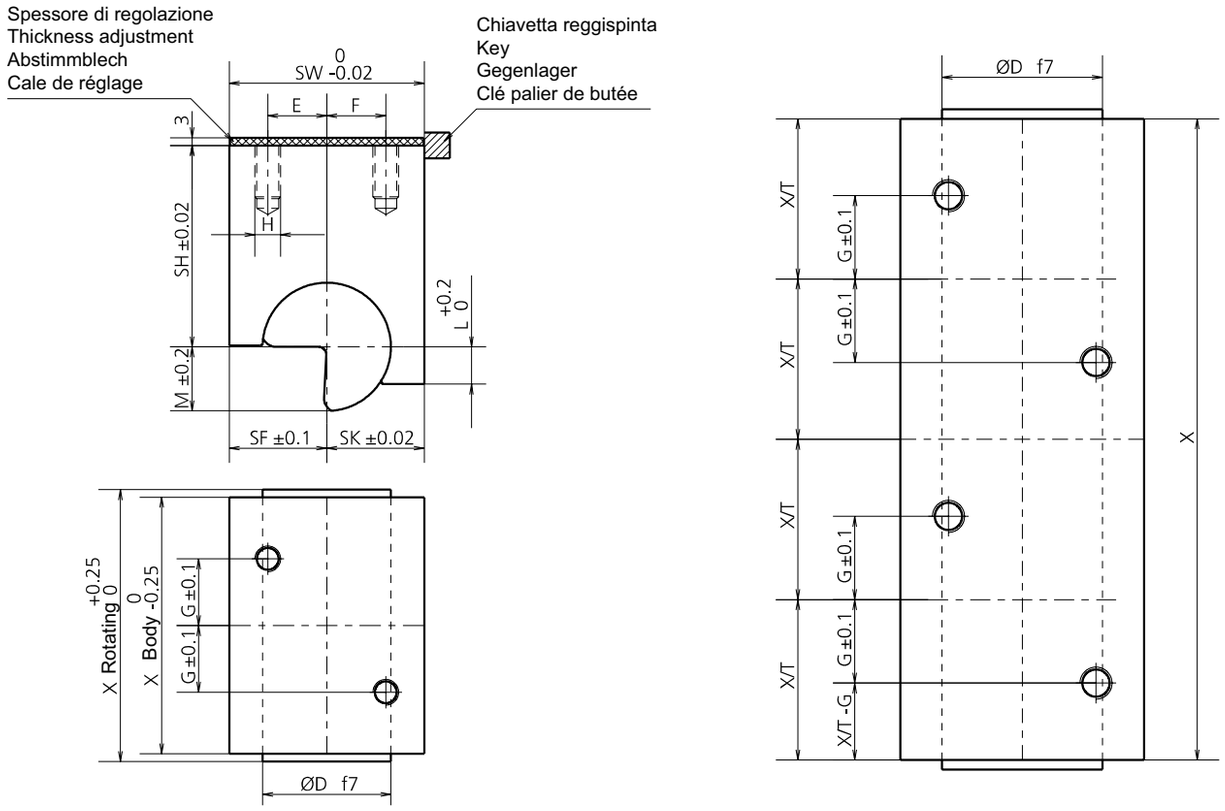
SPECIAL GEOMETRIES AND LENGTHS (600 mm+) AFTER CONSULTING NEWSTARK'S TECHNICAL DEPARTMENT

***STANDARD* MODEL** ≥ 1M STROKES
***ECO* MODEL** UP TO 500K STROKES

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

STD MODEL	**0202**	TYPE BEND	**03**	Ø DIAMETER	**Ø50**	LENGHT	**500**	ANGLE	**90°**
ECO MODEL	**E202**	TYPE BEND	**03**	Ø DIAMETER	**Ø50**	LENGHT	**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-FRONTE / 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 / HÖHE 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 / BEFESTIGUNGSPOSITION	7.5	10	18	23	30	37	51
(F) POSIZIONE DEI FISSAGGI / POSITION OF THE FIXING / BEFESTIGUNGSPOSITION	7.5	10	18	23	30	37	51
(G) POSIZIONE DEI FISSAGGI / POSITION OF THE FIXING / BEFESTIGUNGSPOSITION	12	16	18	30	37	40	42

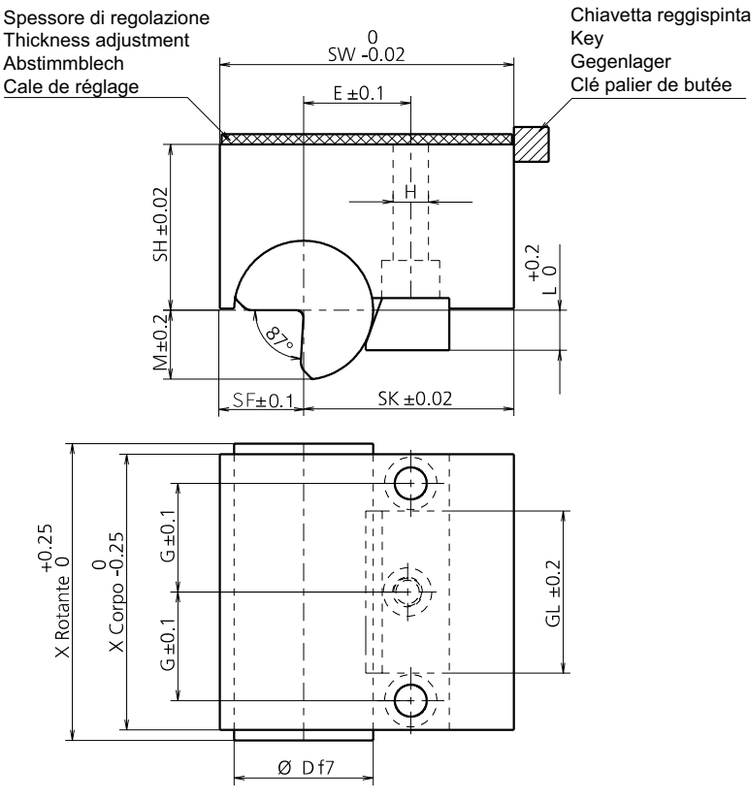
Può lavorare anche senza lubrificazione / It works also without lubrification / Es funktioniert auch ohne Schmierung / Il peut fonctionnement sans lubrification

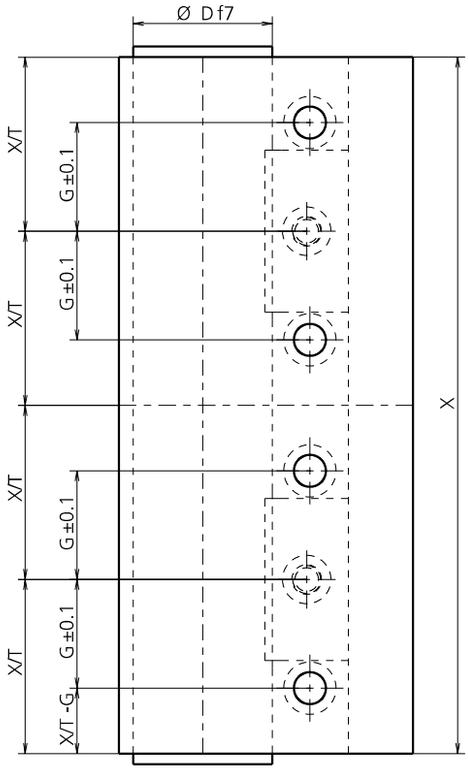
SPECIAL GEOMETRIES AND LENGTHS (600 mm+) AFTER CONSULTING NEWSTARK'S TECHNICAL DEPARTMENT

***STANDARD* MODEL** ≥ 1M STROKES
***ECO* MODEL** UP TO 500K STROKES

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

STD MODEL	**0203**	TYPE BEND	**03**	Ø DIAMETER	**Ø50**	LENGHT	**500**	ANGLE	**90°**
ECO MODEL	**E203**	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
0204....15	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
0204....25	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
0204....40	132-270	X/4	2	272-390	X/6	3	392-520	X/8	4	522-600	X/10	5	/	/	/	35	33
0204....50	152-320	X/4	2	322-450	X/6	3	452-600	X/8	4	/	/	/	/	/	/	42	41
0204....65	202-400	X/4	2	402-550	X/6	3	552-600	X/8	4	/	/	/	/	/	/	52	52
0204....75	212-450	X/4	2	452-600	X/6	3	/	/	/	/	/	/	/	/	/	58	58
0204....100	260-550	X/4	2	552-600	X/6	3	/	/	/	/	/	/	/	/	/	75	71

	0204....15	0204....25	0204....40	0204....50	0204....65	0204....75	0204....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)	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-FRONTE / 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 / BEFESTIGUNGSPOSITION	16	23	33	41	52	58	71

Può lavorare anche senza lubrificazione / It works also without lubrification / Es funktioniert auch ohne Schmierung / Il peut fonctionnement sans lubrification

SPECIAL GEOMETRIES AND LENGTHS (600 mm+) AFTER CONSULTING NEWSTARK'S TECHNICAL DEPARTMENT

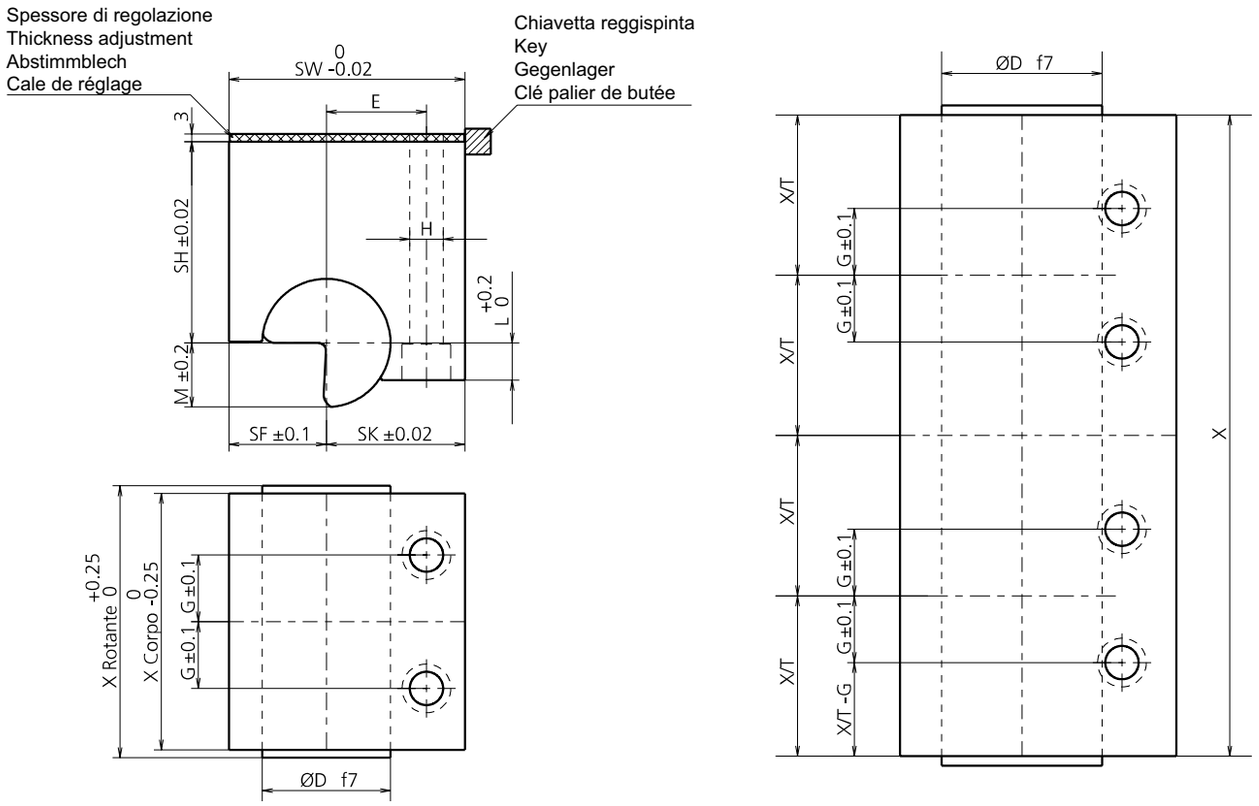
***STANDARD* MODEL** ≥ 1M STROKES
***ECO* MODEL** UP TO 500K STROKES

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

STD MODEL	**0204**	TYPE BEND	**03**	Ø DIAMETER	**Ø50**	LENGHT	**500**	ANGLE	**90°**
ECO MODEL	**E204**	TYPE BEND	**03**	Ø DIAMETER	**Ø50**	LENGHT	**500**	ANGLE	**90°**

0205 - **ROLL E - METRIC**

PATENT PENDING



MODEL	X	X/T	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-FRONTE / 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 / BEFESTIGUNGSPOSITION	15.5	23	33.5	40	53	57.5	74
POSIZIONE DEI FISSAGGI (G) / POSITION OF THE FIXING / BEFESTIGUNGSPOSITION	12.5	15	17.5	22.5	27.5	29	40

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SPECIAL GEOMETRIES AND LENGTHS (600 mm+) AFTER CONSULTING NEWSTARK'S TECHNICAL DEPARTMENT

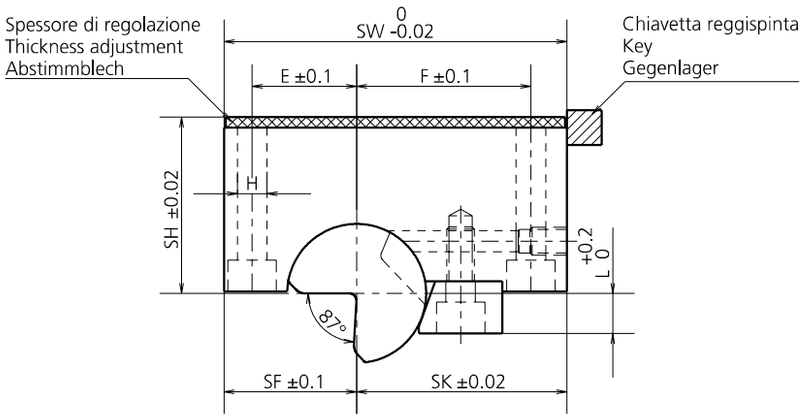
***STANDARD* MODEL** ≥ 1M STROKES
***ECO* MODEL** UP TO 500K STROKES

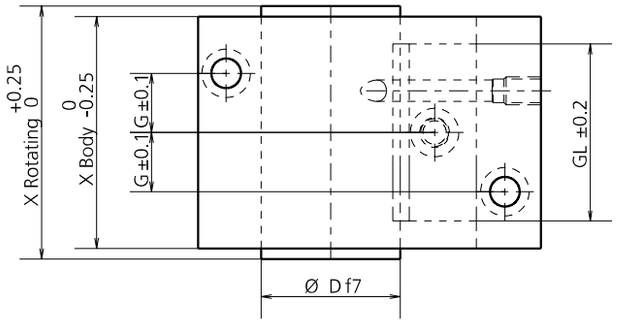
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

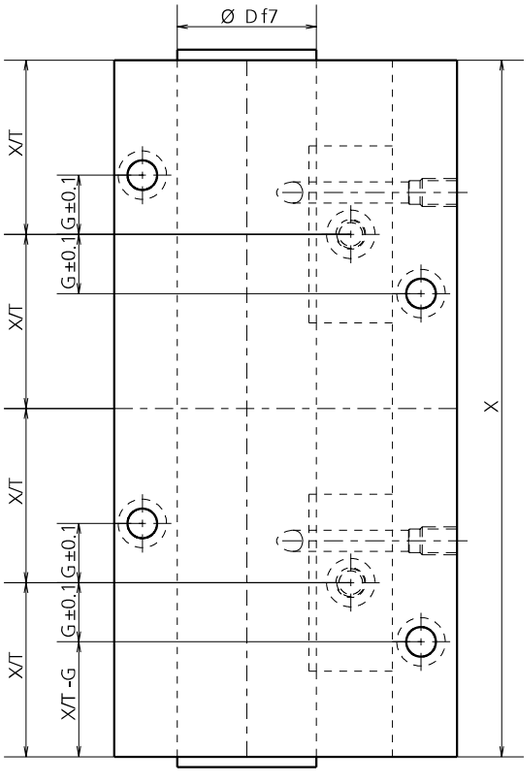
STD MODEL	**0205**	TYPE BEND	**03**	Ø DIAMETER	**Ø50**	LENGHT	**500**	ANGLE	**90°**
ECO MODEL	**E205**	TYPE BEND	**03**	Ø DIAMETER	**Ø50**	LENGHT	**500**	ANGLE	**90°**

0231 - **ROLL A - HYBRID (ROCKER INCH AND METRIC SCREWS)**

PATENT PENDING







MODEL	X	X/T	BRACKET	X	X/T	BRACKET	X	X/T	BRACKET	X	X/T	BRACKET	X	X/T	BRACKET	G	E	F
0231....06	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	9	14	30
0231....10	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	12	21.5	37.5
0231....15	132-260	X/4	2	262-390	X/6	3	392-520	X/8	4	522-600	X/10	5	/	/	/	17	30	50
0231....20	152-300	X/4	2	302-450	X/6	3	452-600	X/8	4	/	/	/	/	/	/	31.5	37.5	66
0231....25	182-360	X/4	2	362-540	X/6	3	542-600	X/8	4	/	/	/	/	/	/	35	44	79
0231....30	202-400	X/4	2	402-600	X/6	3	/	/	/	/	/	/	/	/	/	40	57	92.5

	0231....06	0231....10	0231....15	0231....20	0231....25	0231....30
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
LUNGHEZZE / LENGTHS / LÄNGEN MIN-MAX (X)	30-420	40-600	40-600	50-600	50-600	50-600
DIAMETRO ROTANTE / ROTATING DIAMETER / Ø BIEGEEINSATZ (D)	15.9	25.4	38.1	50.8	63.5	76.2
LARGHEZZA CORPO / BODY WIDTH / BREITE DES GRUNDKÖRPERS (SW)	53.975	73.025	98.425	123.825	149.225	174.625
DIST. MIN. ROTANTE-FRONTE / DIST. MIN. ROTATING BODY-FRONT PART / ABSTAND MIN. DREHKÖRPER (SF)	19.05	28.575	38.1	47.625	57.15	69.85
DIST. ROTANTE-CHIAVETTA / DIST. ROTATING BODY - WEDGE / ABSTAND DREHKÖRPER (SK)	34.925	44.45	60.325	76.2	92.075	104.775
DIST. ROTANTE-BASE (SH) - DIST. BODY-ROTATING BODY / ABSTAND DREHKÖRPER-GRUNDKÖRPER	22.225	34.925	47.625	60.325	73.025	85.725
LARGHEZZA SUPPORTO (GL) / SUPPORT WIDTH / BREITE HALTER	28.6	38.1	50.8	63.5	76.2	88.9
INGOMBRO SUPPORTO (L) / HOLDER OVERALL / HÖHE HALTER	4.75	7.11	11.58	14.21	19.33	23.27
DIAMETRI FISSAGGI (H) / DIAMETERS OF THE FIXING / BEFESTIGUNGSDURCHMESSER	M4	M6	M8	M10	M12	M12
POSIZIONE DEI FISSAGGI (E) / POSITION OF THE FIXING / BEFESTIGUNGSPOSITION	14	21.5	30	37.5	44	57
POSIZIONE DEI FISSAGGI (F) / POSITION OF THE FIXING / BEFESTIGUNGSPOSITION	30	37.5	50	66	79	92.5
POSIZIONE DEI FISSAGGI (G) / POSITION OF THE FIXING / BEFESTIGUNGSPOSITION	9	12	17	31.5	35	40

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SPECIAL GEOMETRIES AND LENGTHS (600 mm+) AFTER CONSULTING NEWSTARK'S TECHNICAL DEPARTMENT

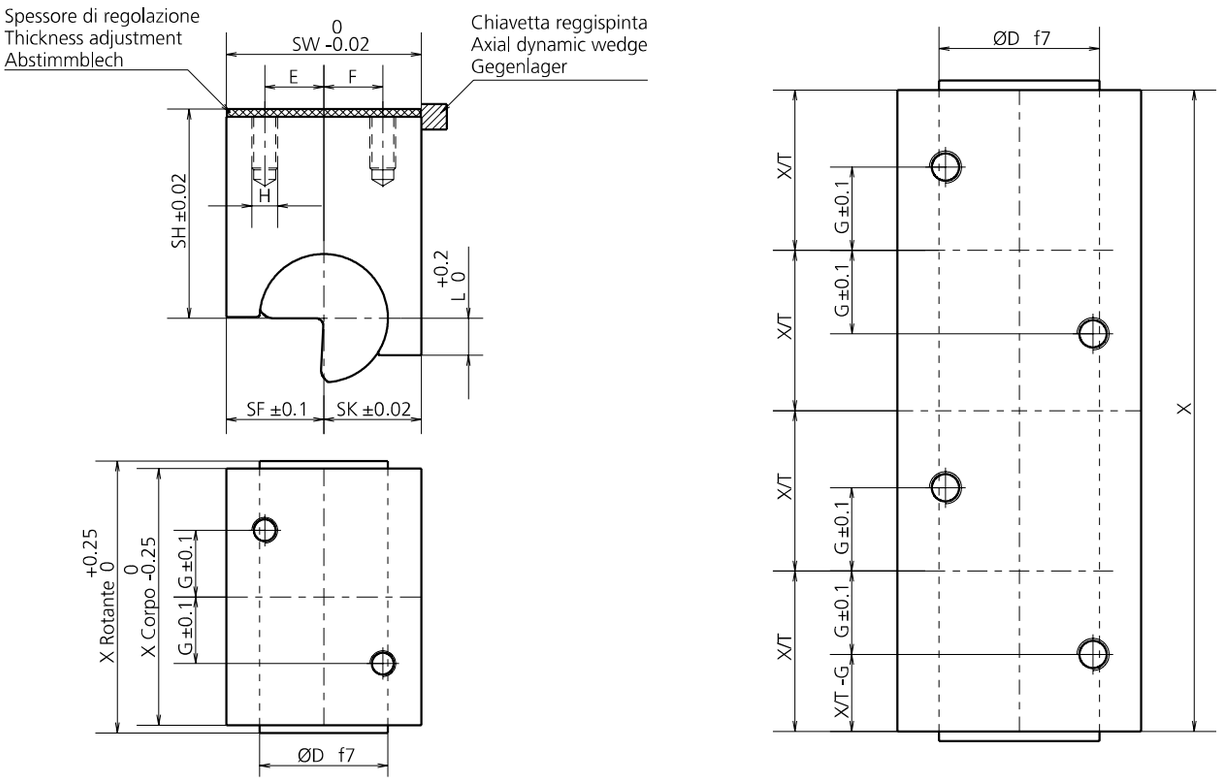
***STANDARD* MODEL** ≥ 1M STROKES
***ECO* MODEL** UP TO 500K STROKES

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

STD MODEL	**0231**	TYPE BEND	**03**	Ø DIAMETER	**15 (1.5" = 38.1mm)**	LENGHT	**500**	ANGLE	**90°**
ECO MODEL	**E231**	TYPE BEND	**03**	Ø DIAMETER	**15 (1.5" = 38.1mm)**	LENGHT	**500**	ANGLE	**90°**

0233 - **ROLL C - HYBRID (ROCKER INCH AND METRIC SCREWS)**

PATENT PENDING



MODEL	X	X/T	X	X/T	X	X/T	X	X/T	X	X/T	G	E	F
0233....06	77-150	X/4	152-225	X/6	227-300	X/8	302-375	X/10	377-420	X/12	7,9	7,9	7,9
0233....10	102-200	X/4	202-300	X/6	302-400	X/8	402-500	X/10	502-600	X/12	11,1	11,1	11,1
0233....15	132-260	X/4	262-390	X/6	392-520	X/8	522-600	X/10	/	/	15,9	15,9	15,9
0233....20	152-300	X/4	302-450	X/6	452-600	X/8	/	/	/	/	25,4	25,4	25,4
0233....25	182-360	X/4	362-540	X/6	542-600	X/8	/	/	/	/	31,75	31,75	31,75
0233....30	202-400	X/4	402-600	X/6	/	/	/	/	/	/	38,1	38,1	38,1

	0233....06	0233....10	0233....15	0233....20	0233....25	0233....30
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
LUNGHEZZE / LENGTHS / LÄNGEN MIN-MAX (X)	25-420	30-600	35-600	45-600	50-600	50-600
DIAMETRO ROTANTE / ROTATING DIAMETER / Ø BIEGEEINSATZ (D)	15,9	25,4	38,1	50,8	63,5	76,2
LARGHEZZA CORPO / BODY WIDTH / BREITE DES GRUNDKÖRPERS (SW)	25,4	38,1	50,8	76,2	88,9	101,6
DIST. MIN. ROTANTE-FRONTE / DIST. MIN. ROTATING BODY-FRONT PART / ABSTAND MIN. DREHKÖRPER (SF)	12,7	19,05	25,4	38,1	44,45	50,8
DIST. ROTANTE-CHIAVETTA / DIST. ROTATING BODY - WEDGE / ABSTAND DREHKÖRPER (SK)	12,7	19,05	25,4	38,1	44,45	50,8
DIST. ROTANTE-BASE / DIST. BODY-ROTATING BODY / ABSTAND DREHKÖRPER-GRUNDKÖRPER (SH)	50,8	50,8	69,85	76,2	101,6	114,3
INGOMBRO SUPPORTO (L) / HOLDER OVERALL / HÖHE HALTER	4,5	7,2	11,15	15,3	18,9	23,2
DIAMETRI FISSAGGI (H) / DIAMETERS OF THE FIXING / BEFESTIGUNGSDURCHMESSER	M6	M8	M8	M12	M12	M12
POSIZIONE DEI FISSAGGI (E) / POSITION OF THE FIXING / BEFESTIGUNGSPOSITION	7,9	11,1	15,9	25,4	31,75	38,1
POSIZIONE DEI FISSAGGI (F) / POSITION OF THE FIXING / BEFESTIGUNGSPOSITION	7,9	11,1	15,9	25,4	31,75	38,1
POSIZIONE DEI FISSAGGI (G) / POSITION OF THE FIXING / BEFESTIGUNGSPOSITION	7,9	11,1	15,9	25,4	31,75	38,1

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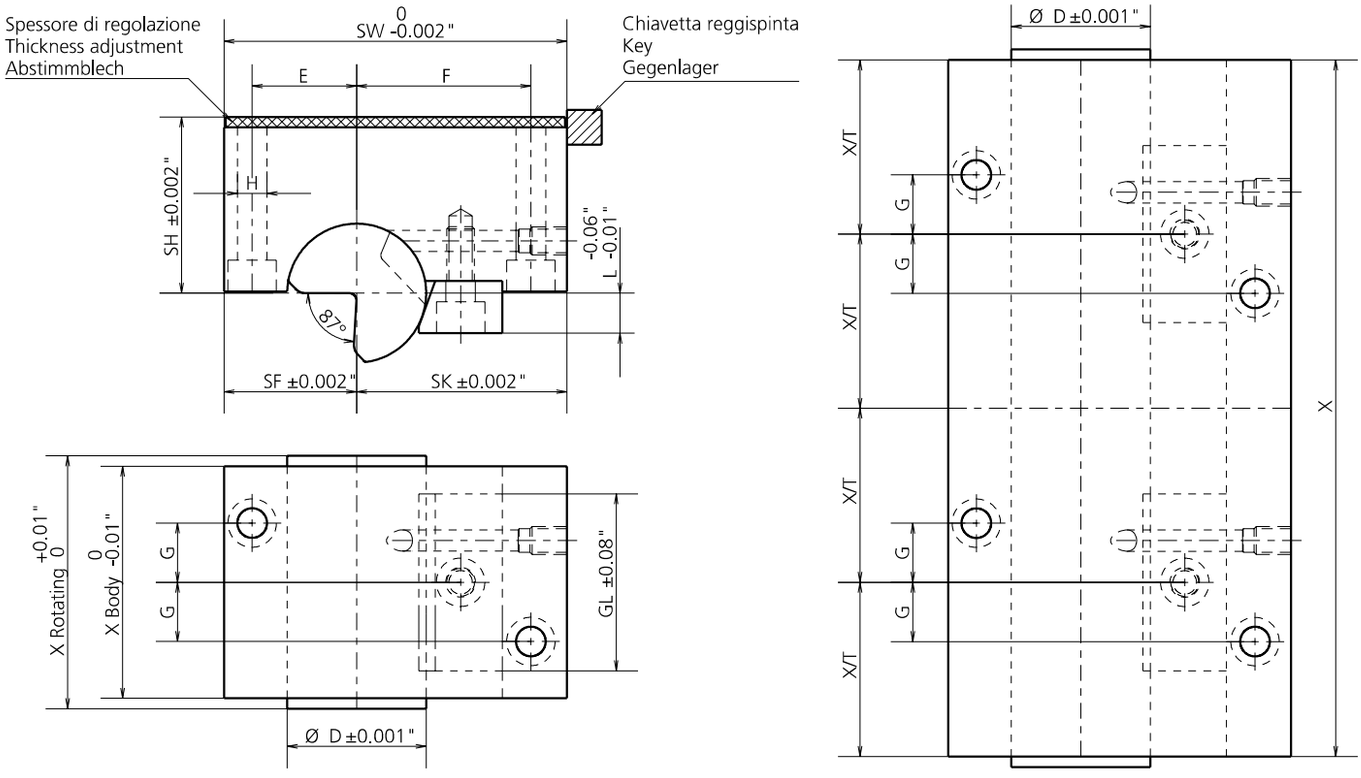
SPECIAL GEOMETRIES AND LENGTHS (600 mm+) AFTER CONSULTING NEWSTARK'S TECHNICAL DEPARTMENT

***STANDARD* MODEL** ≥ 1M STROKES
***ECO* MODEL** UP TO 500K STROKES

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

STD MODEL	**0233**	TYPE BEND	**03**	Ø DIAMETER	**15 (1.5" = 38.1mm)**	LENGHT	**500**	ANGLE	**90°**
ECO MODEL	**E233**	TYPE BEND	**03**	Ø DIAMETER	**15 (1.5" = 38.1mm)**	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
0251....06	3”-6”	X/4	2	6”-9”	X/6	3	9”-12”	X/8	4	12”-15”	X/10	5	15”-16.5”	X/12	6	0.354”	0.551”	1.181”
0251....10	4”-8”	X/4	2	8”-12”	X/6	3	12”-16”	X/8	4	16”-20”	X/10	5	16”-23.5”	X/12	6	0.472”	0.846”	1.476”
0251....15	5”-10.25”	X/4	2	10.25”-15.25”	X/6	3	15.25”-20.5”	X/8	4	20.5”-23.5”	X/10	5	/	/	/	0.669”	1.181”	1.969”
0251....20	6”-12”	X/4	2	12”-17.75”	X/6	3	17.75”-23.5”	X/8	4	/	/	/	/	/	/	1.24”	1.476”	2.598”
0251....25	7”-14”	X/4	2	14”-21”	X/6	3	21”-23.5”	X/8	4	/	/	/	/	/	/	1.378”	1.732”	3.11”
0251....30	8”-16”	X/4	2	16”-23.5”	X/6	3	/	/	/	/	/	/	/	/	/	1.575”	2.244”	3.642”

	0251....06	0251....10	0251....15	0251....20	0251....25	0251....30
SPESSORE LAMIERA / METAL SHEET THICKNESS / DICKE DES BLECHS	0.010”-0.042”	0.043”-0.075”	0.076”-0.120”	0.121”-0.164”	0.165”-0.209”	0.210”-0.250”
LUNGHEZZE / LENGTHS / LÄNGEN MIN-MAX (X)	1.2”-16.5”	1.6”-23.5”	1.6”-23.5”	2”-23.5”	2”-23.5”	2”-23.5”
DIAMETRO ROTANTE / ROTATING DIAMETER / Ø BIEGEEINSATZ (D)	0.625”	1”	1.5”	2”	2.5”	3”
LARGHEZZA CORPO / BODY WIDTH / BREITE DES GRUNDKÖRPERS (SW)	2.125”	2.875”	3.875”	4.875”	5.875”	6.875”
DIST. MIN. ROTANTE-FRONTE / DIST. MIN. ROTATING BODY-FRONT PART / ABSTAND MIN. DREHKÖRPER (SF)	0.75”	1.125”	1.5”	1.875”	2.25”	2.75”
DIST. ROTANTE-CHIAVETTA / DIST. ROTATING BODY - WEDGE / ABSTAND DREHKÖRPER (SK)	1.375”	1.75”	2.375”	3”	3.625”	4.125”
DIST. ROTANTE-BASE (SH) - DIST. BODY-ROTATING BODY / ABSTAND DREHKÖRPER-GRUNDKÖRPER	0.875”	1.375”	1.875”	2.375”	2.875”	3.375”
LARGHEZZA SUPPORTO (GL) / SUPPORT WIDTH / BREITE HALTER	1.125”	1.5”	2”	2.5”	3”	3.5”
INGOMBRO SUPPORTO (L) / HOLDER OVERALL / HÖHE HALTER	0.187”	0.28”	0.456”	0.599”	0.761”	0.916”
DIAMETRI FISSAGGI (H) / DIAMETERS OF THE FIXING / BEFESTIGUNGSDURCHMESSER	10-24 UNC	1/4 UNC	5/16 UNC	3/8 UNC	1/2 UNC	1/2 UNC
POSIZIONE DEI FISSAGGI (E) / POSITION OF THE FIXING / BEFESTIGUNGSPOSITION	0.551”	0.846”	1.181”	1.476”	1.732”	2.244”
POSIZIONE DEI FISSAGGI (F) / POSITION OF THE FIXING / BEFESTIGUNGSPOSITION	1.181”	1.476”	1.969”	2.598”	3.11”	3.642”
POSIZIONE DEI FISSAGGI (G) / POSITION OF THE FIXING / BEFESTIGUNGSPOSITION	0.354”	0.472”	0.669”	1.24”	1.378”	1.575”

Può lavorare anche senza lubrificazione / It works also without lubrification / Es funktioniert auch ohne Schmierung / Il peut fonctionnement sans lubrification

SPECIAL GEOMETRIES AND LENGTHS (600 mm+) AFTER CONSULTING NEWSTARK'S TECHNICAL DEPARTMENT

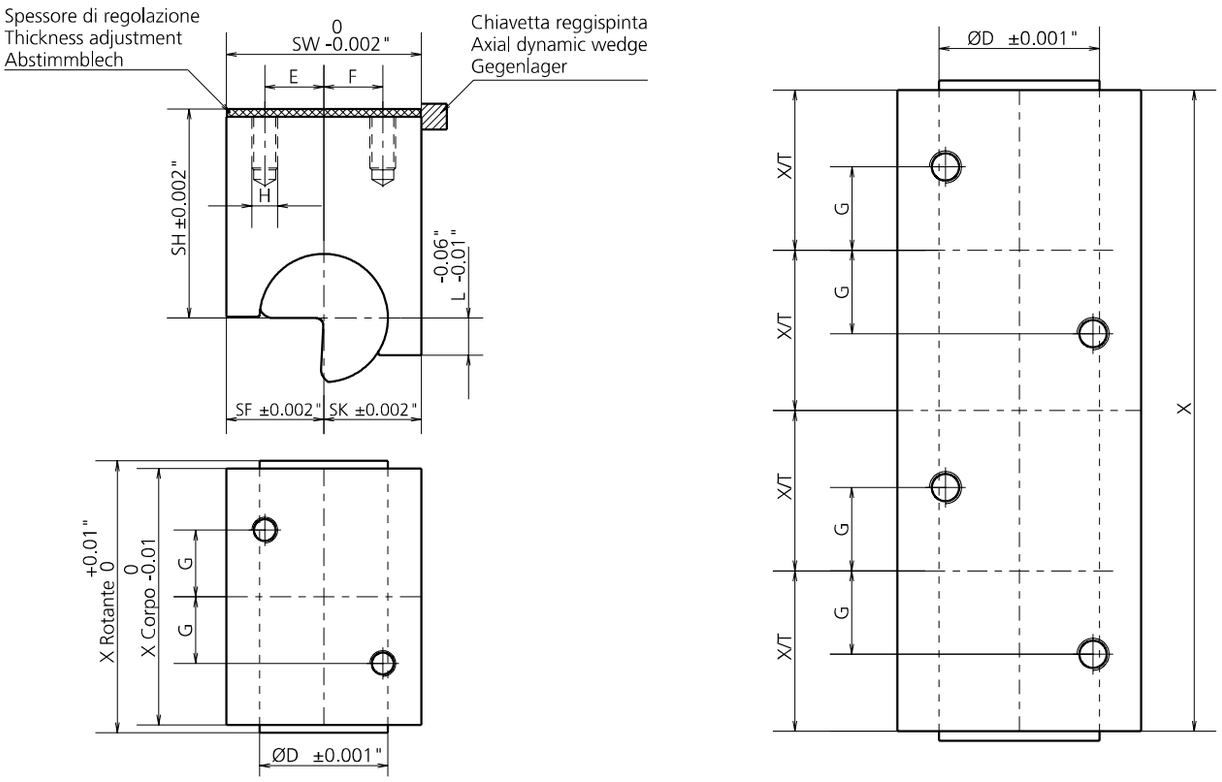
***STANDARD* MODEL** ≥ 1M STROKES
***ECO* MODEL** UP TO 500K STROKES

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

STD MODEL	**0251**	TYPE BEND	**03**	Ø DIAMETER	**15 (1.5")**	LENGHT	**5"**	ANGLE	**90°**
ECO MODEL	**E251**	TYPE BEND	**03**	Ø DIAMETER	**15 (1.5")**	LENGHT	**5"**	ANGLE	**90°**

0253 - **ROLL C - INCH**

PATENT PENDING



MODEL	X	X/T	X	X/T	X	X/T	X	X/T	X	X/T	G	E	F
0253....06	3"-6"	X/4	6"-9"	X/6	9"-12"	X/8	12"-15"	X/10	15"-16.5"	X/12	0.3125"	0.3125"	0.3125"
0253....10	4"-8"	X/4	8"-12"	X/6	12"-16"	X/8	16"-20"	X/10	16"-23.5"	X/12	0.437"	0.437"	0.437"
0253....15	5"-10.25"	X/4	10.25"-15.25"	X/6	15.25"-20.5"	X/8	20.5"-23.5"	X/10	/	/	0.625"	0.625"	0.625"
0253....20	6"-12"	X/4	12"-17.75"	X/6	17.75"-23.5"	X/8	/	/	/	/	1"	1"	1"
0253....25	7"-14"	X/4	14"-21"	X/6	21"-23.5"	X/8	/	/	/	/	1.25"	1.25"	1.25"
0253....30	8"-16"	X/4	16"-23.5"	X/6	/	/	/	/	/	/	1.5"	1.5"	1.5"

	0253....06	0253....10	0253....15	0253....20	0253....25	0253....30
SPESSORE LAMIERA / METAL SHEET THICKNESS / DICKE DES BLECHS	0.010"-0.042"	0.043"-0.075"	0.076"-0.120"	0.121"-0.164"	0.165"-0.209"	0.210"-0.250"
LUNGHEZZE / LENGTHS / LÄNGEN MIN-MAX (X)	1.2"-16.5"	1.6"-23.5"	1.6"-23.5"	2"-23.5"	2"-23.5"	2"-23.5"
DIAMETRO ROTANTE / ROTATING DIAMETER / Ø BIEGEEINSATZ (D)	0.625"	1"	1.5"	2"	2.5"	3"
LARGHEZZA CORPO / BODY WIDTH / BREITE DES GRUNDKÖRPERS (SW)	1"	1.5"	2"	3"	3.5"	4"
DIST. MIN. ROTANTE-FRONTE / DIST. MIN. ROTATING BODY-FRONT PART / ABSTAND MIN. DREHKÖRPER (SF)	0.5"	0.75"	1"	1.5"	1.75"	2"
DIST. ROTANTE-CHIAVETTA / DIST. ROTATING BODY - WEDGE / ABSTAND DREHKÖRPER (SK)	0.5"	0.75"	1"	1.5"	1.75"	2"
DIST. ROTANTE-BASE (SH) - DIST. BODY-ROTATING BODY / ABSTAND DREHKÖRPER-GRUNDKÖRPER	2"	2"	2.75"	3"	4"	4.5"
INGOMBRO SUPPORTO (L) / HOLDER OVERALL / HÖHE HALTER	0.177"	0.283"	0.439"	0.602"	0.744"	0.913"
DIAMETRI FISSAGGI (H) / DIAMETERS OF THE FIXING / BEFESTIGUNGSDURCHMESSER	1/4 20 UNC	5/16 18 UNC	5/16 18 UNC	1/2 13 UNC	1/2 13 UNC	1/2 13 UNC
POSIZIONE DEI FISSAGGI (E) / POSITION OF THE FIXING / BEFESTIGUNGSPOSITION	0.3125"	0.437"	0.625"	1"	1.25"	1.5"
POSIZIONE DEI FISSAGGI (F) / POSITION OF THE FIXING / BEFESTIGUNGSPOSITION	0.3125"	0.437"	0.625"	1"	1.25"	1.5"
POSIZIONE DEI FISSAGGI (G) / POSITION OF THE FIXING / BEFESTIGUNGSPOSITION	0.3125"	0.437"	0.625"	1"	1.25"	1.5"

Può lavorare anche senza lubrificazione / It works also without lubrification / Es funktioniert auch ohne Schmierung / Il peut fonctionnement sans lubrification

SPECIAL GEOMETRIES AND LENGTHS (600 mm+) AFTER CONSULTING NEWSTARK'S TECHNICAL DEPARTMENT

***STANDARD* MODEL** ≥ 1M STROKES
***ECO* MODEL** UP TO 500K STROKES

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

STD MODEL	**0253**	TYPE BEND	**03**	Ø DIAMETER	**15 (1.5")**	LENGHT	**5"**	ANGLE	**90°**
ECO MODEL	**E253**	TYPE BEND	**03**	Ø DIAMETER	**15 (1.5")**	LENGHT	**5"**	ANGLE	**90°**

PRESTAM
PRESTAUTO
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UNITS

UNITÁ DI FORATURA E SAGOMATURA / THREAD FORMING UNITS
GEWINDEPRAEGESTEMPEL / UNITÉ DE PERÇAGE ET FAÇONNAGE

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SPECIAL UNITS

UNITÁ DI FORATURA E SAGOMATURA / THREAD FORMING UNITS
GEWINDEPRAEGESTEMPEL / UNITÉ DE PERÇAGE ET FAÇONNAGE

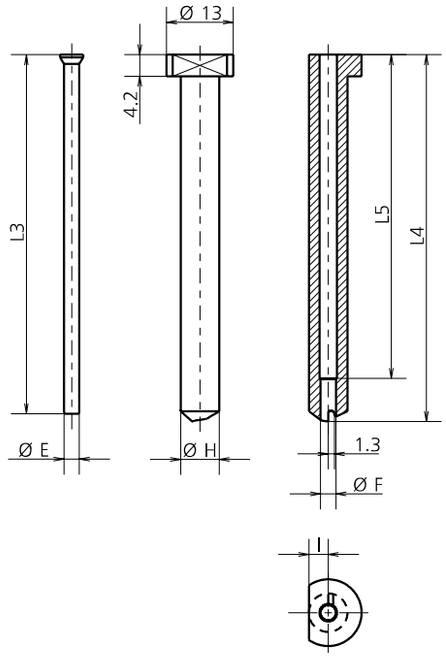
IT Sono unità di tranciatura e sagomatura della lamiera che permettono di realizzare la "spirale" o "chiocciola" nella lamiera stessa, tale da far avvitare viti autofilettanti evitando l'utilizzo del normale collarino realizzato mediante "punta chiodo", poco affidabile. La sagomatura speciale ottenuta 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 threat. It is also possible to manufacture special models, tailored according to the customer's drawings.

DE Die Einheiten lochen und prägen das Blechs, 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.

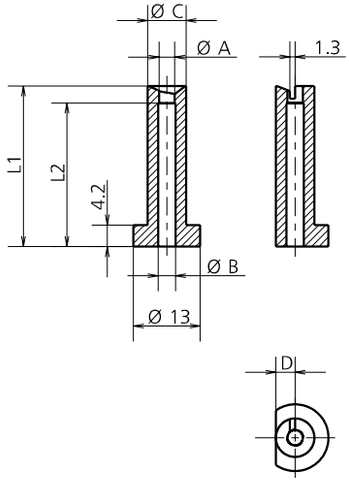
FR Il s'agit d'unités de découpage et de façonnage de la tôle qui permettent de faire la "spirale" ou la "vis sans fin" dans la tôle elle-même, de sorte que des vis autotaraudeuses peuvent être vissées en évitant l'utilisation du collier normal réalisé avec la "pointe du clou", qui n'est pas très fiable. 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

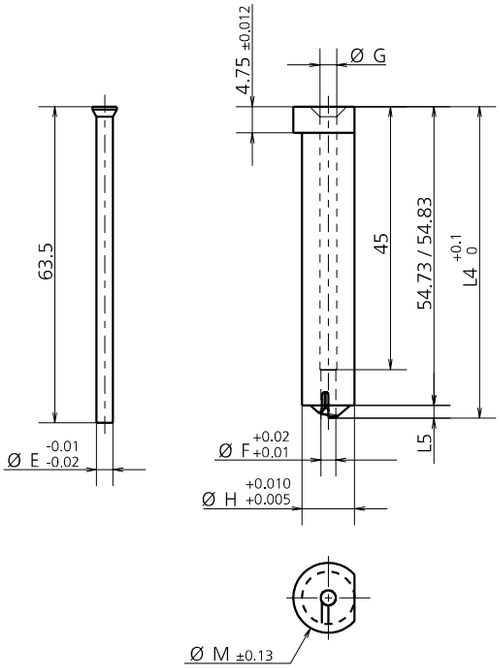
POS.	MODEL	DESCRIPTION	Ø SCREW	Ø A H7	Ø B	Ø C h6	D K6	Ø E h6	Ø F H7	Ø H h6	I K6	L1	L2	L3	L4	L5	MAX THICKNESS
	0301.0035	UNITÀ / UNIT / PRESTAM B3.5	B3.5	2.75	3.2	7.5	3.75	2.7	2.7	7.5	3.75	31.3	28	74.5	71.5	60	0.6
001	**8064.0135**	PUNZONE / PUNCH / LOCHER PRESTAM B3.5 + DIN 9861		/	/	/	/	2.7	2.7	7.5	3.75	/	/	74.5	71.5	60	
002	**8053.0135**	MATRICE / MATRIX / MATRIX PRESTAM B3.5		2.75	3.2	7.5	3.75	/	/	/	/	31.3	28	/	/	/	
	0301.0039	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	**8064.0139**	PUNZONE / PUNCH / LOCHER PRESTAM B3.9 + DIN 9861		/	/	/	/	3.0	3.0	7.5	3.75	/	/	74.5	71.5	60	
002	**8053.0139**	MATRICE / MATRIX / MATRIX PRESTAM B3.9		3.05	3.4	7.5	3.75	/	/	/	/	31.3	28	/	/	/	
	0301.0042	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	**8064.0142**	PUNZONE / PUNCH / LOCHER PRESTAM B4.2 + DIN 9861		/	/	/	/	3.1	3.1	8.0	4.0	/	/	74.5	71.5	60	
002	**8053.0142**	MATRICE / MATRIX / MATRIX PRESTAM B4.2		3.15	3.5	8.5	4.25	/	/	/	/	31.3	28	/	/	/	
	0301.0048	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	**8064.0148**	PUNZONE / PUNCH / LOCHER PRESTAM B4.8 + DIN 9861		/	/	/	/	3.8	3.8	8.0	4.0	/	/	74.5	71.5	60	
002	**8053.0148**	MATRICE / MATRIX / MATRIX PRESTAM B4.8		3.85	4.2	9.0	4.50	/	/	/	/	31.3	28	/	/	/	
	0301.0055	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	**8064.0155**	PUNZONE / PUNCH / LOCHER PRESTAM B5.5 + DIN 9861		/	/	/	/	4.3	4.3	8.0	4.0	/	/	74.5	71.5	60	
002	**8053.0155**	MATRICE / MATRIX / MATRIX PRESTAM B5.5		4.35	4.8	9.0	4.50	/	/	/	/	31.3	28	/	/	/	
	0301.0063	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	**8064.0163**	PUNZONE / PUNCH / LOCHER PRESTAM B6.3 + DIN 9861		/	/	/	/	4.8	4.8	10.0	5.0	/	/	74.5	71.5	60	
002	**8053.0163**	MATRICE / MATRIX / MATRIX PRESTAM B6.3		4.85	5.3	10.5	5.25	/	/	/	/	31.3	28	/	/	/	

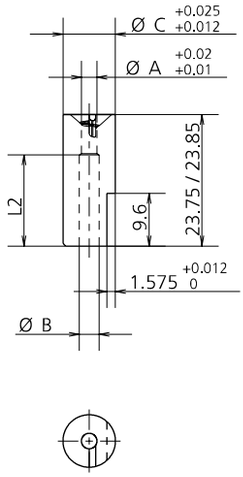
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0301** Ø DIAMETER **0035**

0302 - **PRESTAUTO**

NORMA F 01467





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
	0302.0035	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	**8064.0235**	PUNZONE / PUNCH / LOCHER PRESTAUTO B3.5 + DIN 9861		/	/	/	2.5	2.5	2.8	9.525	14.2	/	56.8	2	
002	**8053.0235**	MATRICE / MATRIX / MATRIX PRESTAUTO B3.5		2.5	3.5	9.525	/	/	/	/	/	20	/	/	
	0302.0042	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	**8064.0242**	PUNZONE / PUNCH / LOCHER PRESTAUTO B4.2 + DIN 9861		/	/	/	2.9	2.9	3.2	12.7	17.3	/	57.45	2.65	
002	**8053.0242**	MATRICE / MATRIX / MATRIX PRESTAUTO B4.2		2.9	3.9	12.7	/	/	/	/	/	19	/	/	
	0302.0048	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	**8064.0248**	PUNZONE / PUNCH / LOCHER PRESTAUTO B4.8 + DIN 9861		/	/	/	3.3	3.3	3.6	12.7	17.3	/	57.45	2.65	
002	**8053.0248**	MATRICE / MATRIX / MATRIX PRESTAUTO B4.8		3.3	4.3	12.7	/	/	/	/	/	19	/	/	
	0302.0055	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	**8064.0255**	PUNZONE / PUNCH / LOCHER PRESTAUTO B5.5 + DIN 9861		/	/	/	3.9	3.9	4.2	15.87	22	/	58.1	3.3	
002	**8053.0255**	MATRICE / MATRIX / MATRIX PRESTAUTO B5.5		3.9	4.9	15.87	/	/	/	/	/	19	/	/	
	0302.0063	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	**8064.0263**	PUNZONE / PUNCH / LOCHER PRESTAUTO B6.3 + DIN 9861		/	/	/	4.5	4.5	4.8	15.87	22	/	58.1	3.3	
002	**8053.0263**	MATRICE / MATRIX / MATRIX PRESTAUTO B6.3		4.5	5.5	15.87	/	/	/	/	/	19	/	/	
	0302.0080	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	**8064.0280**	PUNZONE / PUNCH / LOCHER PRESTAUTO B8 + DIN 9861		/	/	/	5.8	5.8	6.1	20	25	/	59	4.2	
002	**8053.0280**	MATRICE / MATRIX / MATRIX PRESTAUTO B8		5.8	7.1	20	/	/	/	/	/	18	/	/	

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

MODEL **0302** Ø DIAMETER **0035**

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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.

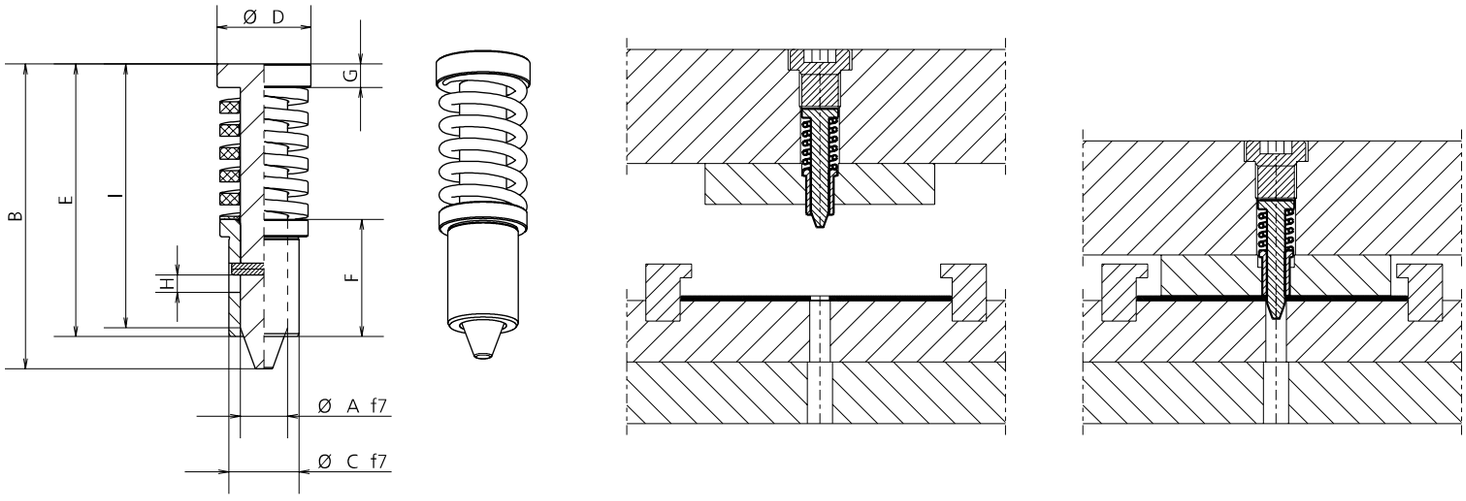
PRODUCT DESIGNED AND MANUFACTURED IN ITALY · PRODUCT AVAILABLE ON STOCK · COMPETITIVE PRICE

PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE

LONG DURATION · HIGH QUALITY MATERIALS · INTERCHANGEABILITY · DIRECT USE UNDER THE PRESS

14_ _ - PILOTA

PILOT UNIT / PILOTEINHEIT / PILOTE



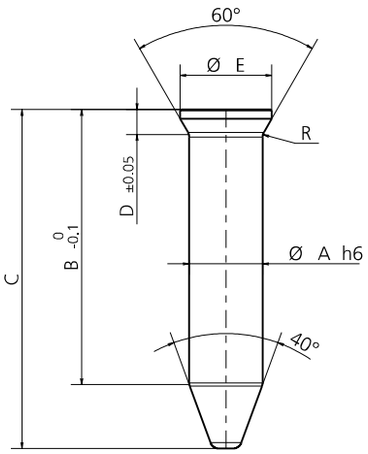
MODEL	F0 PRELOADED (N)	F1 PRESSED (N)	Ø A	B	Ø C	Ø D	E	F	G	H	I	STANDARD
1410.0536	20	60	5	36	8	11	34	8	3	4.5	32	
1411.0536	25	70	5	36	8	11	34	8	3	4.5	32	
1412.0536	40	112	5	36	8	11	34	8	3	4.5	32	
1413.0536	55	155	5	36	8	11	34	8	3	4.5	32	
1410.0540	20	60	5	40	8	11	38	12	3	4.5	36	
1411.0540	25	70	5	40	8	11	38	12	3	4.5	36	
1412.0540	40	112	5	40	8	11	38	12	3	4.5	36	
1413.0540	55	155	5	40	8	11	38	12	3	4.5	36	
1410.0544	20	60	5	44	8	11	42	16	3	4.5	40	
1411.0544	25	70	5	44	8	11	42	16	3	4.5	40	
1412.0544	40	112	5	44	8	11	42	16	3	4.5	40	
1413.0544	55	155	5	44	8	11	42	16	3	4.5	40	
1410.0645	40	110	6	45	10	12.5	42	16	3	4.5	40	
1411.0645	45	125	6	45	10	12.5	42	16	3	4.5	40	
1412.0645	75	210	6	45	10	12.5	42	16	3	4.5	40	
1413.0645	105	295	6	45	10	12.5	42	16	3	4.5	40	
1410.0649	40	110	6	49	10	12.5	46	20	3	4.5	44	
1411.0649	45	125	6	49	10	12.5	46	20	3	4.5	44	
1412.0649	75	210	6	49	10	12.5	46	20	3	4.5	44	
1413.0649	105	295	6	49	10	12.5	46	20	3	4.5	44	
1410.0848	50	140	8	48	12	16	43	16	4	4.5	41	
1411.0848	58	164	8	48	12	16	43	16	4	4.5	41	
1412.0848	123	346	8	48	12	16	43	16	4	4.5	41	
1413.0848	189	530	8	48	12	16	43	16	4	4.5	41	
1410.0852	50	140	8	52	12	16	47	20	4	4.5	45	
1411.0852	58	164	8	52	12	16	47	20	4	4.5	45	
1412.0852	123	346	8	52	12	16	47	20	4	4.5	45	
1413.0852	189	530	8	52	12	16	47	20	4	4.5	45	
1410.1054	75	200	10	54	15	20	48	20	5	4.5	46	
1411.1054	140	391	10	54	15	20	48	20	5	4.5	46	
1412.1054	245	686	10	54	15	20	48	20	5	4.5	46	
1413.1054	540	1512	10	54	15	20	48	20	5	4.5	46	
1410.1059	75	200	10	59	15	20	53	25	5	4.5	51	
1411.1059	140	391	10	59	15	20	53	25	5	4.5	51	
1412.1059	245	686	10	59	15	20	53	25	5	4.5	51	
1413.1059	540	1512	10	59	15	20	53	25	5	4.5	51	
1410.1256	135	375	12	56	18	25	48	20	5	4.5	46	
1411.1256	260	375	12	56	18	25	48	20	5	4.5	46	
1412.1256	390	1100	12	56	18	25	48	20	5	4.5	46	
1413.1256	940	2625	12	56	18	25	48	20	5	4.5	46	
1410.1261	135	375	12	61	18	25	53	25	5	4.5	51	
1411.1261	260	375	12	61	18	25	53	25	5	4.5	51	
1412.1261	390	1100	12	61	18	25	53	25	5	4.5	51	
1413.1261	940	2625	12	61	18	25	53	25	5	4.5	51	
1420.1063	49	62	9.8	63.2	15	18	53	28	4	3.5	51,5	MERCEDES-BENZ
1420.1362	48	56	12.8	62	23	21	51.5	28	4	3.5	50	
1420.1672	48	56	15.8	72.5	26	24	60	28	4	3.5	58,5	MERCEDES-BENZ

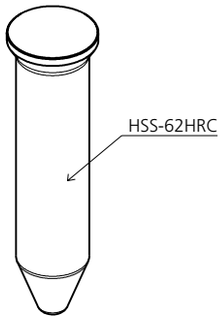
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

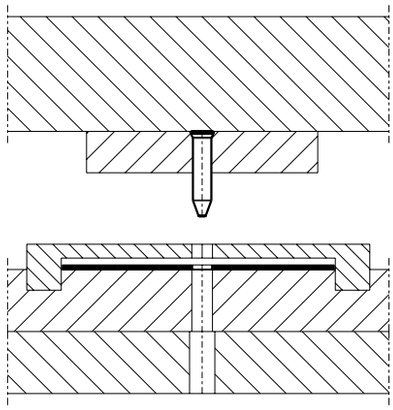
MODEL **1411.0540**

141A - **PILOTA**

PILOT UNIT / PILOTEINHEIT / PILOTE







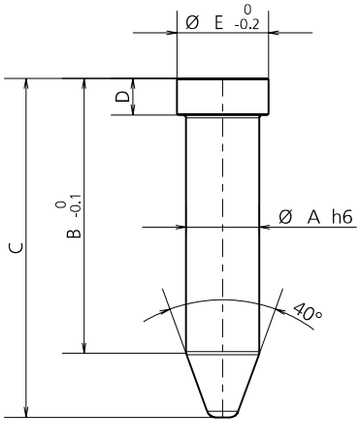
MODEL	Ø A	B	C	D	Ø E	R
141A.0312	3	12	15.5	1.8	4.5	0.5
141A.0320	3	20	23.5	1.8	4.5	0.5
141A.0330	3	30	33.5	1.8	4.5	0.5
141A.0370	3	70	73.5	1.8	4.5	0.5
141A.0412	4	12	16	1.8	5.5	0.5
141A.0420	4	20	24	1.8	5.5	0.5
141A.0430	4	30	34	1.8	5.5	0.5
141A.0470	4	70	74	1.8	5.5	0.5
141A.0612	6	12	17	2.23	8	1
141A.0620	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

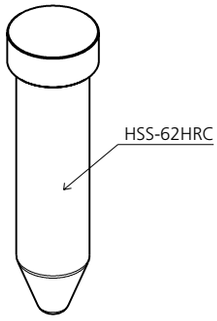
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

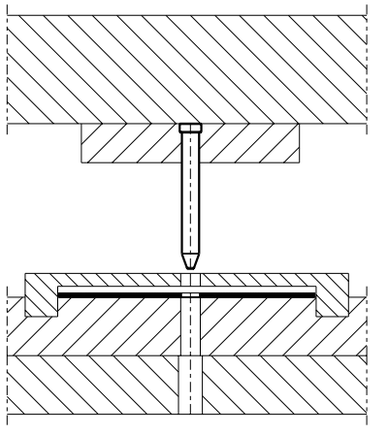
MODEL **141A.0312**

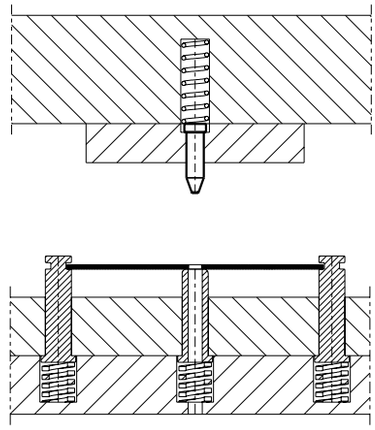
141B - **PILOTA**

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

DOWNLOAD 3D FILES

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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.

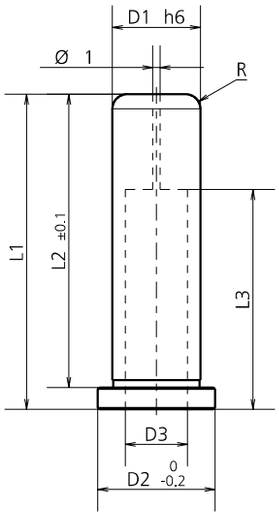
DE Mechanismen, welche die Führung des Bleches während des Formverfahren ermöglichen und eine höhere Bandgeschwindigkeit durch ein Hubsystem garantieren.

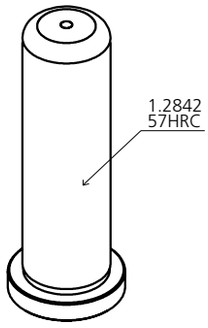
FR Mécanismes qui permettent de guider la tôle pendant l'emboutissage, en garantissant également une avance rapide du feuillard grâce à un système de levage.

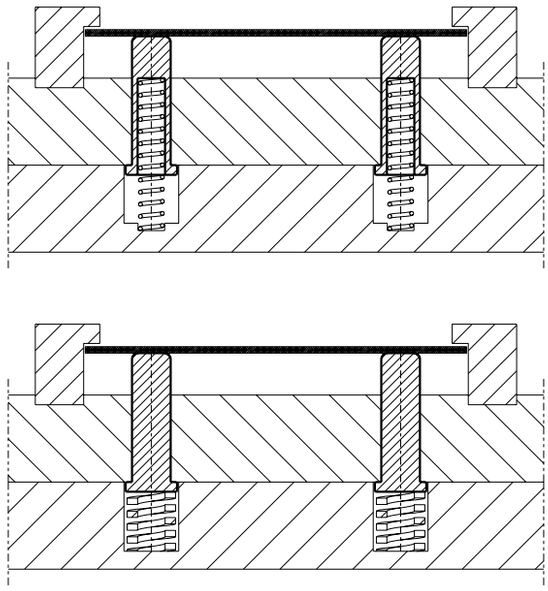
PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE

1201 - **SOLLEVATORE**

LIFTER / HUBZAPFEN / ÉLÉVATEUR







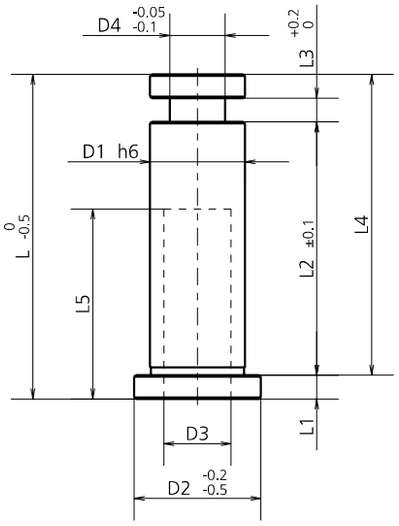
MODEL	D1	D2	D3	L1	L2	L3	R
1201.0418	4	6	-	18	16	-	0.5
1201.0422	4	6	-	22	20	-	0.5
1201.0425	4	6	-	25	23	-	0.5
1201.0427	4	6	-	27	25	-	0.5
1201.0430	4	6	-	30	28	-	0.5
1201.0619	6	8	-	19	16	-	0.8
1201.0623	6	8	-	23	20	-	0.8
1201.0626	6	8	-	26	23	-	0.8
1201.0628	6	8	-	28	25	-	0.8
1201.0631	6	8	-	31	28	-	0.8
1201.0635	6	8	-	35	32	-	0.8
1201.0639	6	8	-	39	36	-	0.8
1201.0643	6	8	-	43	40	-	0.8
1201.0826	8	10	-	26	23	-	1
1201.0828	8	10	-	28	25	-	1
1201.0831	8	10	-	31	28	-	1
1201.0835	8	10	-	35	32	-	1
1201.0839	8	10	-	39	36	-	1
1201.0843	8	10	-	43	40	-	1
1201.0848	8	10	-	48	48	-	1
1201.1028	10	14	6.5	28	25	17	1.5
1201.1031	10	14	6.5	31	28	24	1.5
1201.1035	10	14	6.5	35	32	24	1.5
1201.1039	10	14	6.5	39	36	24	1.5
1201.1043	10	14	6.5	43	40	30	1.5
1201.1048	10	14	6.5	48	45	34	1.5
1201.1053	10	14	6.5	53	50	40	1.5
1201.1228	12	16	8.5	28	25	17	2
1201.1231	12	16	8.5	31	28	24	2
1201.1235	12	16	8.5	35	32	24	2
1201.1239	12	16	8.5	39	36	24	2
1201.1243	12	16	8.5	43	40	30	2
1201.1248	12	16	8.5	48	45	34	2
1201.1253	12	16	8.5	53	50	40	2
1201.1266	12	16	8.5	66	63	40	2
1201.1635	16	20	10.5	35	32	24	3.5
1201.1639	16	20	10.5	39	36	30	3.5
1201.1643	16	20	10.5	43	40	30	3.5
1201.1648	16	20	10.5	48	45	34	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

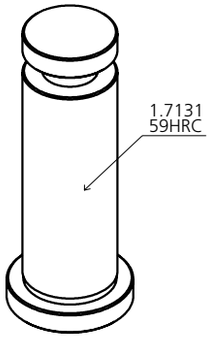
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

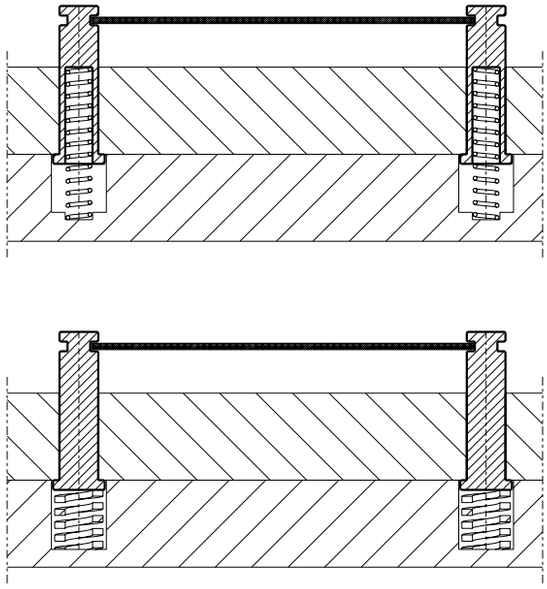
MODEL **1201** DIAMETER **D1 04** LENGHT **L1 22**

1202 - SOLLEVATORE GUIDA-NASTRO

LIFTER-METAL STRIP GUIDE / HUBZAPFEN STREIFENFÜHRUNG / ÉLÉVATEUR GUIDE FEUILLARD







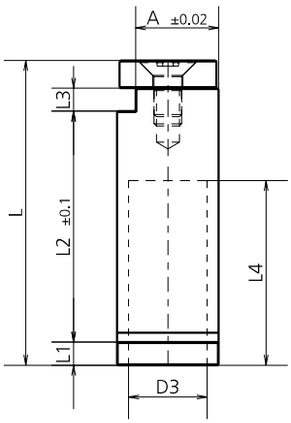
MODEL	D1	D2	D3	D4	L	L1	L2	L3	L4	L5
1202.0629	6	8	-	3	29.5	2	25	0.5	27.5	-
1202.0630	6	8	-	3	30	2	25	1	28	-
1202.0636	6	8	-	3	36.5	2	32	0.5	34.5	-
1202.0637	6	8	-	3	37	2	32	1	35	-
1202.0831	8	10	-	5	31	3	25	1	28	-
1202.0832	8	10	-	5	32	3	25	2	29	-
1202.0838	8	10	-	5	38	3	32	1	35	-
1202.0839	8	10	-	5	39	3	32	2	36	-
1202.0840	8	10	-	5	40	3	32	3	37	-
1202.0846	8	10	-	5	46	3	40	1	43	-
1202.0847	8	10	-	5	47	3	40	2	44	-
1202.0848	8	10	-	5	48	3	40	3	45	-
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
1202.1243	12	16	8.5	7	43	3	32	5	40	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
1202.1251	12	16	8.5	7	51	3	40	5	48	30
1202.1258	12	16	8.5	7	58	3	50	2	55	30
1202.1259	12	16	8.5	7	59	3	50	3	56	30
1202.1261	12	16	8.5	7	61	3	50	5	58	30
1202.1641	16	20	10.5	8	41	3	32	2	38	24
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
1202.1649	16	20	10.5	8	49	3	40	2	46	30
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
1202.1659	16	20	10.5	8	59	3	50	2	56	40
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
1202.1673	16	20	10.5	8	73	3	63	3	70	50
1202.1675	16	20	10.5	8	75	3	63	5	72	50
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

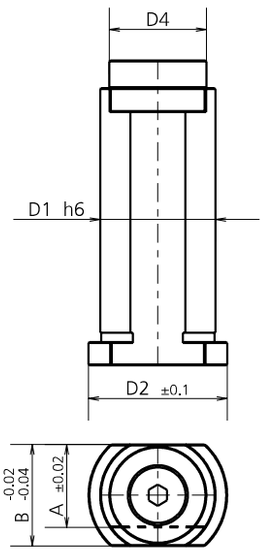
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

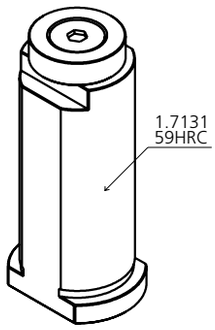
MODEL **1202** DIAMETER **D1 06** LENGHT **L1 29**

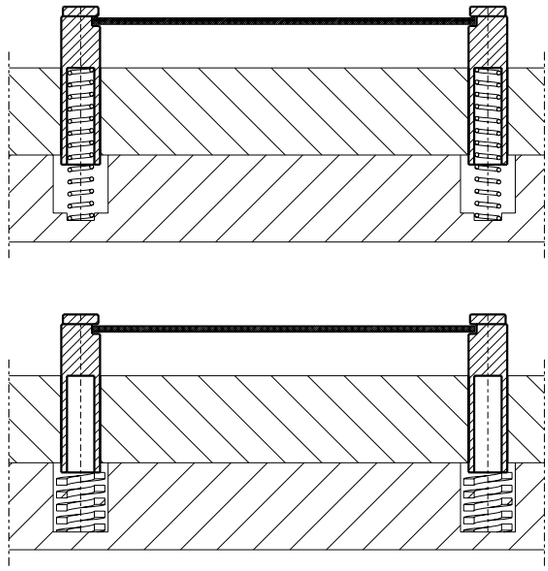
1203 - SOLLEVATORE GUIDA-NASTRO CON ANTIROTAZIONE

LIFTER-METAL STRIP GUIDE WITH ANTIROTATION SYSTEM / HUBZAPFEN 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

DIE LIFTERS / GEFEDERTE NIEDERHALTER-DRUCKROLLEN
PRESSEURS À RESSORT

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PRESSORI MOLLEGGIATI

DIE LIFTERS / 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 die lifters, that facilitate the movement of heavy plates and dies.

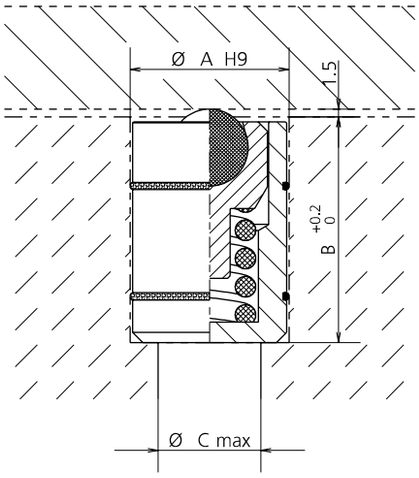
DE Gefederte Systeme mit Kugeln oder Rollen welche die Fortbewegung von schwere Blechen und Pressformen erleichtern.

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 DIE LIFTERS / KUGELLAGERANDRÜCKER / PRESSEUR À RESSORT À BILLES



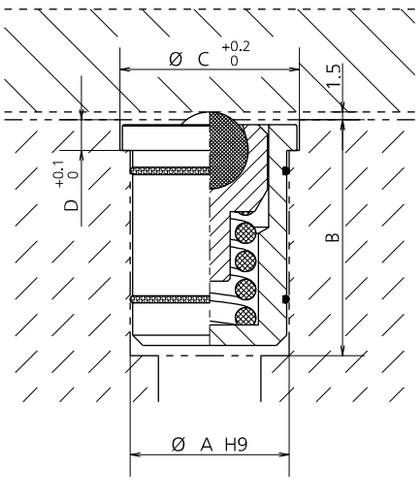
MODEL	Ø A	Ø BALL BEARING	B	Ø C	LOAD (daN)
1301.0020	20	10	30	10	25
1301.0024	24	12	38	14	40
1301.0030	30	15	44	20	63
1301.0040	40	20	53	30	100

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

MODEL **1301** Ø DIAMETER **0020**

1302 - **PRESSORE MOLLEGGIATO A SFERA CON COLLARE**

BALL BEARING DIE LIFTERS WITH COLLAR / KUGELLAGERANDRÜCKER GEKRÖPFT / PRESSEUR À RESSORT À BILLES AVEC COLLIER



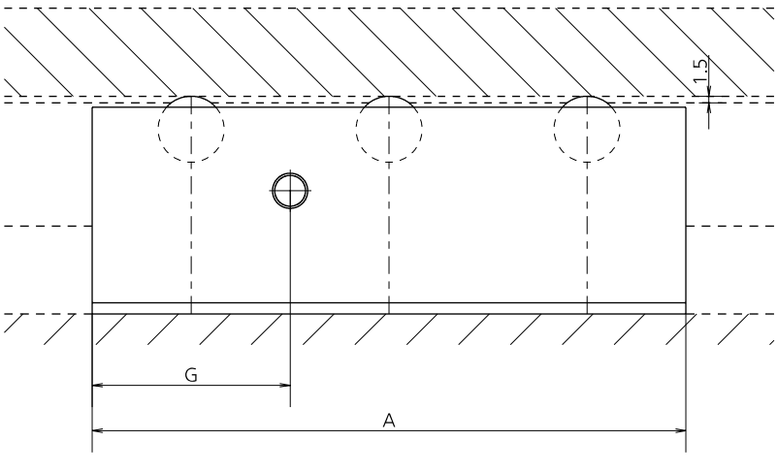
MODEL	Ø A	Ø BALL BEARING	B	Ø C	D	LOAD (daN)
1302.0020	20	10	31	25	3,5	25
1302.0024	24	12	39	30	4	40
1302.0030	30	15	45	35	5	63
1302.0040	40	20	54	50	6	100

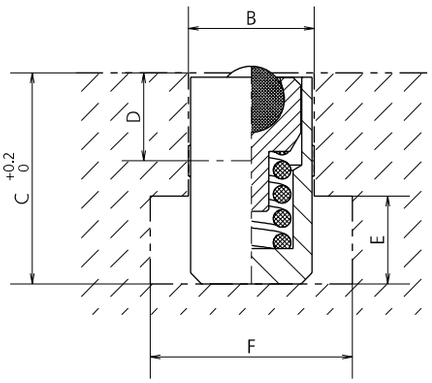
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1302** Ø DIAMETER **0020**

1303 - LISTELLO PORTA-PRESSORI MOLLEGGIATI A SFERA

BALL BEARING DIE LIFTERS RAIL / KUGELLAGERANDRÜCKERSCHIENE / LISTEL PORTE-PRESSEUR À RESSORT À BILLES





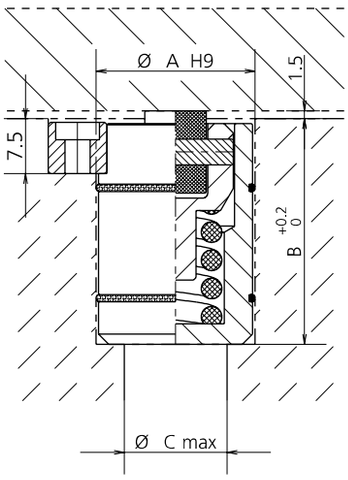
MODEL	Ø BALL BEARING	Q.TY	A	B	C	D	E	F	G	LOAD (daN)
1303.A105	10	3	105	18	30	14,5	12	30	35	75
1303.A140	10	4	140	18	30	14,5	12	30	35	100
1303.A175	10	5	175	18	30	14,5	12	30	35	125
1303.A210	10	6	210	18	30	14,5	12	30	35	150
1303.A280	10	8	280	18	30	14,5	12	30	35	200
1303.A350	10	10	350	18	30	14,5	12	30	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

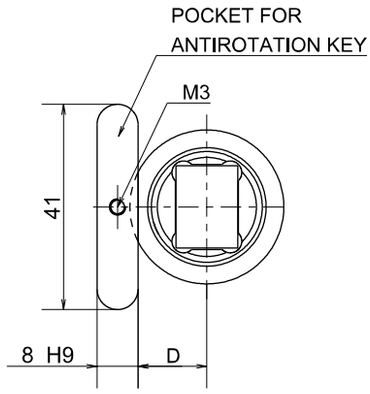
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1303.A105**

1304 - PRESSORE MOLLEGGIATO A RULLO

ROLLER DIE LIFTERS / WÄLZLAGERANDRÜCKER / PRESSEUR À RESSORT À ROULEAUX





KEY - Optional cod:
9032.6885.08.07.040

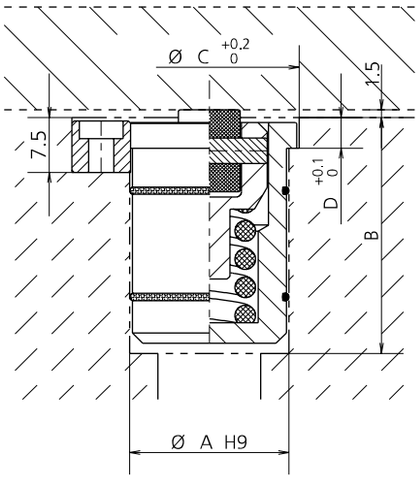
MODEL	Ø A	Ø ROLLER	B	Ø C	D	LOAD (daN)
1304.0020	20	10	30	10	9	50
1304.0024	24	13	38	14	11	80
1304.0030	30	16	44	20	14	125
1304.0040	40	19	53	30	16	200

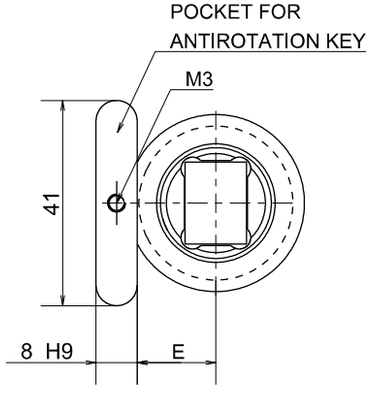
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1304** Ø DIAMETER **0020**

1305 - PRESSORE MOLLEGGIATO A RULLO CON COLLARE

ROLLER DIE LIFTERS WITH COLLAR / WÄLZLAGERANDRÜCKER GEKRÖPFT / PRESSEUR À RESSORT À ROULEAUX AVEC COLLIER





KEY - Optional cod:
9032.6885.08.07.040

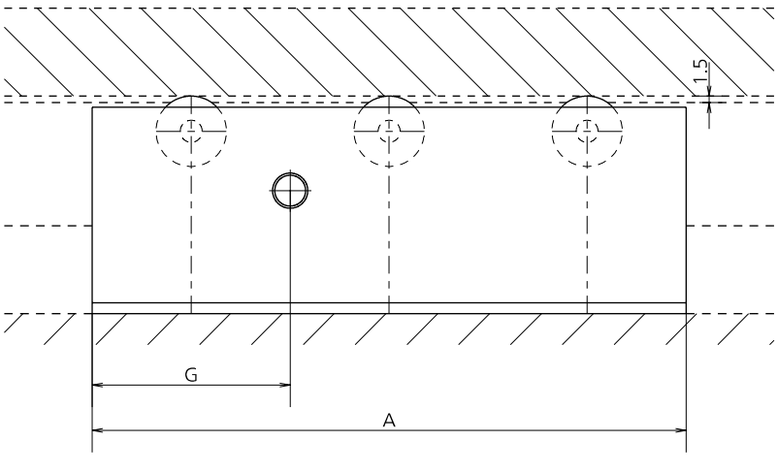
MODEL	Ø A	Ø ROLLER	B	Ø C	D	E	LOAD (daN)
1305.0020	20	10	31	25	3,5	10,5	50
1305.0024	24	13	39	30	4	13	80
1305.0030	30	16	45	35	5	15,5	125
1305.0040	40	19	54	50	6	23	200

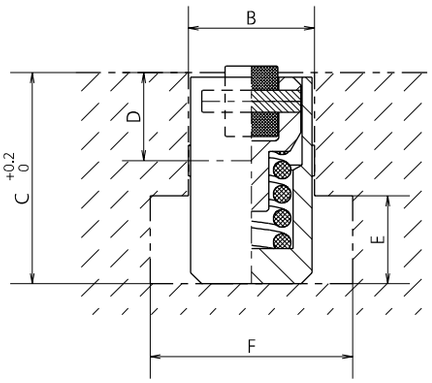
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **1305** Ø DIAMETER **0020**

1306 - LISTELLO PORTA-PRESSORI MOLLEGGIATI A RULLI

ROLLER DIE LIFTERS RAIL / WÄLZLAGERANDRÜCKERSCHIENE / 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

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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 party. 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 und 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

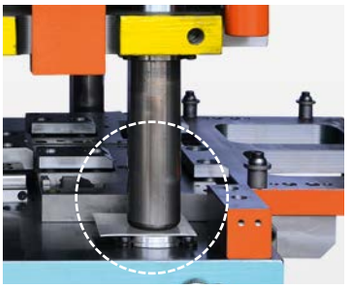
Nessuna protezione per lo stampo. Nessuna stabilità. Pericolo di ammaccamento.
No protection for the die. No stability. Risk of crush.
Keine Schutz für das Werkzeug. Keine Stabilität. Gefahr der Kollision.
Aucune protection pour l'outil de découpe. Pas de stabilité. Danger de cabossage.

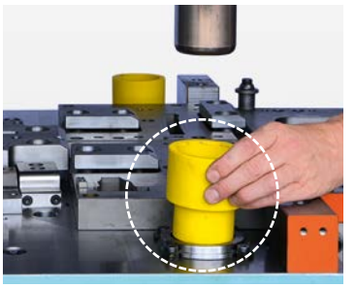
USO CON / USE WITH / NUTZUNG MIT UTILISATION AVEC
SSD - SMD - CD

Protezione per lo stampo. Stabilità. Nessun danno. Nessun pericolo di ammaccamenti.
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.

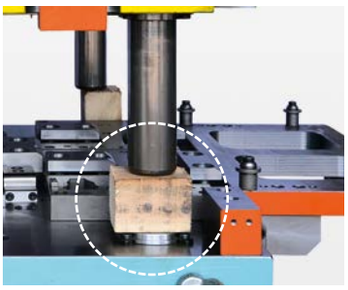
I supporti devono essere rimossi prima di testare lo stampo.
The supports must be removed before testing the die.
Distanzstücke müssen vor dem Test aus dem Werkzeug entfernen.
Les supports doivent être retirés avant de tester l'outil de découpe.

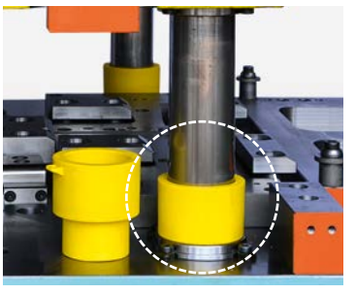
PEZZI DI METALLO / METAL PIECES / METALSTÜCKE / PIÈCES DE MÉTAL



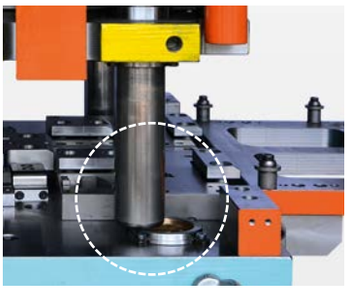


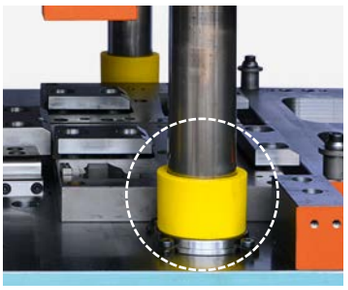
PEZZI DI LEGNO / WOOD PIECES / HOLZSTÜCKE / PIÈCES DE BOIS



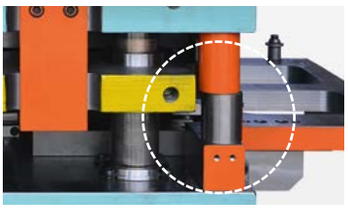


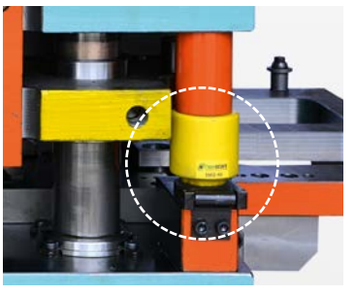
APPOGGIO CASUALE SULLE COLONNE DELLO STAMPO / CASUAL SUPPORT ON THE COLUMNS OF THE DIE / ZUFÄLLIGE UNTERSTÜTZUNG AUF DEN SÄULEN DER MATRIZE / SUPPORT ALÉATOIRE SUR LES COLONNES DE L'OUTIL DE DÉCOUPE



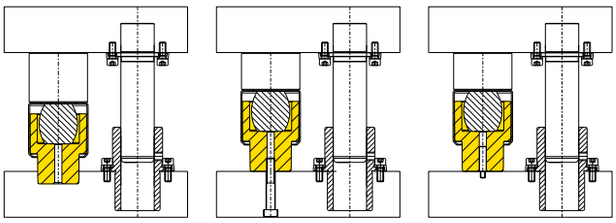


APPOGGIO CASUALE CON UN PEZZO DI METALLO / CASUAL SUPPORT WITH A PIECE OF METAL / ZUFÄLLIGE UNTERSTÜTZUNG MIT EINEM METALLSTÜCK / SUPPORT ALÉATOIRE AVEC UNE PIÈCE DE MÉTAL

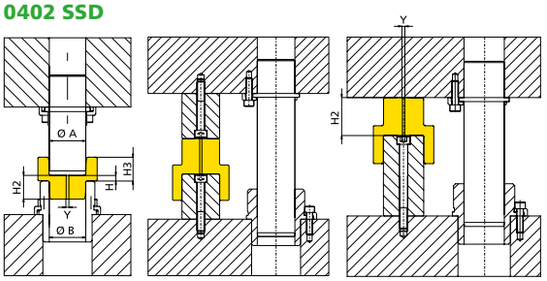


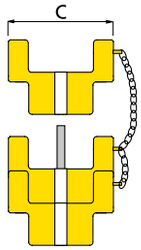


0401 SMD



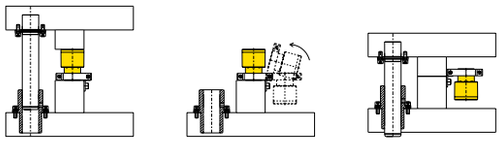
0402 SSD



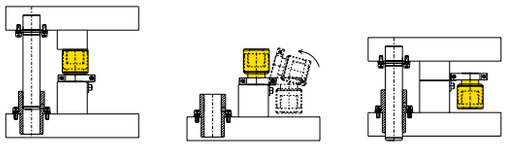


0403 CD

SENZA AMMORTIZZAZIONE
WITHOUT DAMPING
OHNE DÄMPFUNG
SANS AMORTISSEUR



CON AMMORTIZZAZIONE
WITH DAMPING
MIT DÄMPFUNG
AVEC AMORTISSEUR



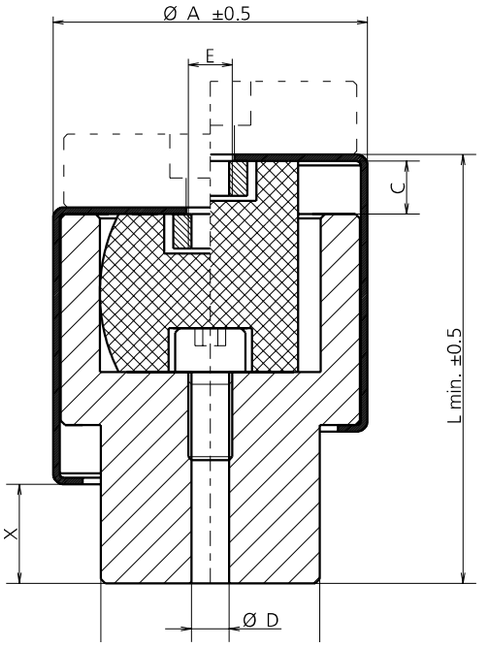
PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE

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. / Possibilité de travailler sans causer de dommage.
3. **Il supporto garantisce stabilità adeguata.**
   The support guarantees adeguate. / 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 premilamiera 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.**
    Trasporto 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)** LOAD AT THE END OF THE STROKE (daN) BELASTUNG AM ENDE DES HUBES (daN) CHARGEMENT EN FIN DE COURSE (daN)	**CARICO TOTALE (daN)** TOTAL LOAD (daN) GESAMTBELASTUNG (daN) 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

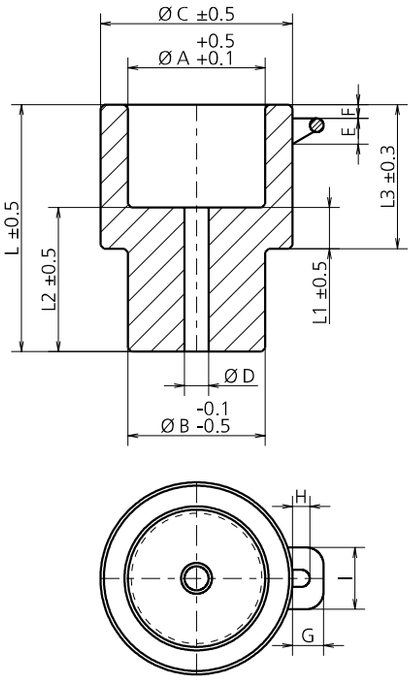
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0401** DIAMETER **0040**

0402 - **SUPPORTO**

SUPPORT / WERKZEUGE ENTLASTUNG / SUPPORT

PATENT PENDING



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)** CARRYING CAPACITY PER UNIT (daN) TRAGFÄHIGKEIT PRO-STÜCK (daN) 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	11000
0402.0100	100.2	99.8	123	8.6	8	5	9	5	18	96	16	56	56	12000
0402.0125	125.2	124.8	150	8.6	8	5	9	5	18	96	16	56	56	13000

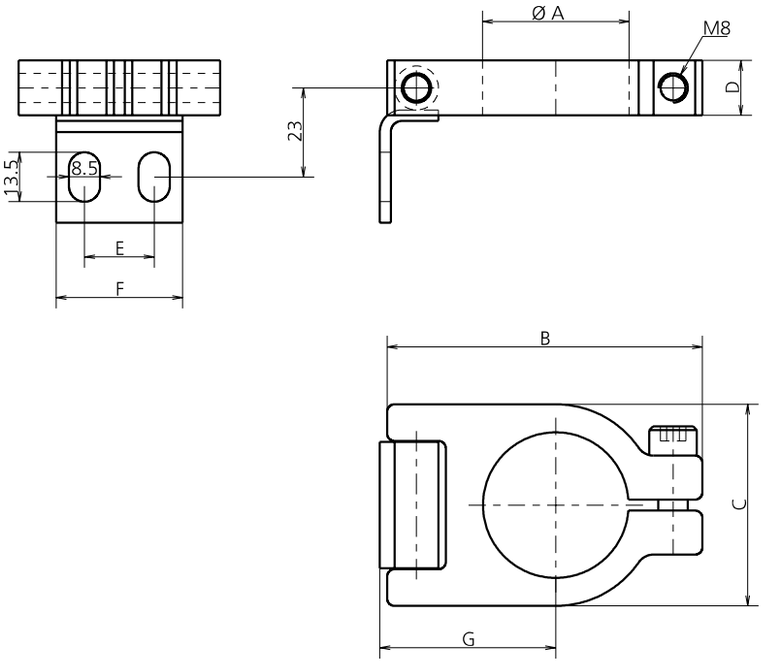
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0402** DIAMETER **0018**

0403 - CERNIERA

HINGE FOR SUPPORT / ZUBEHÖR-SCHARNIER / CHARNIÈRE

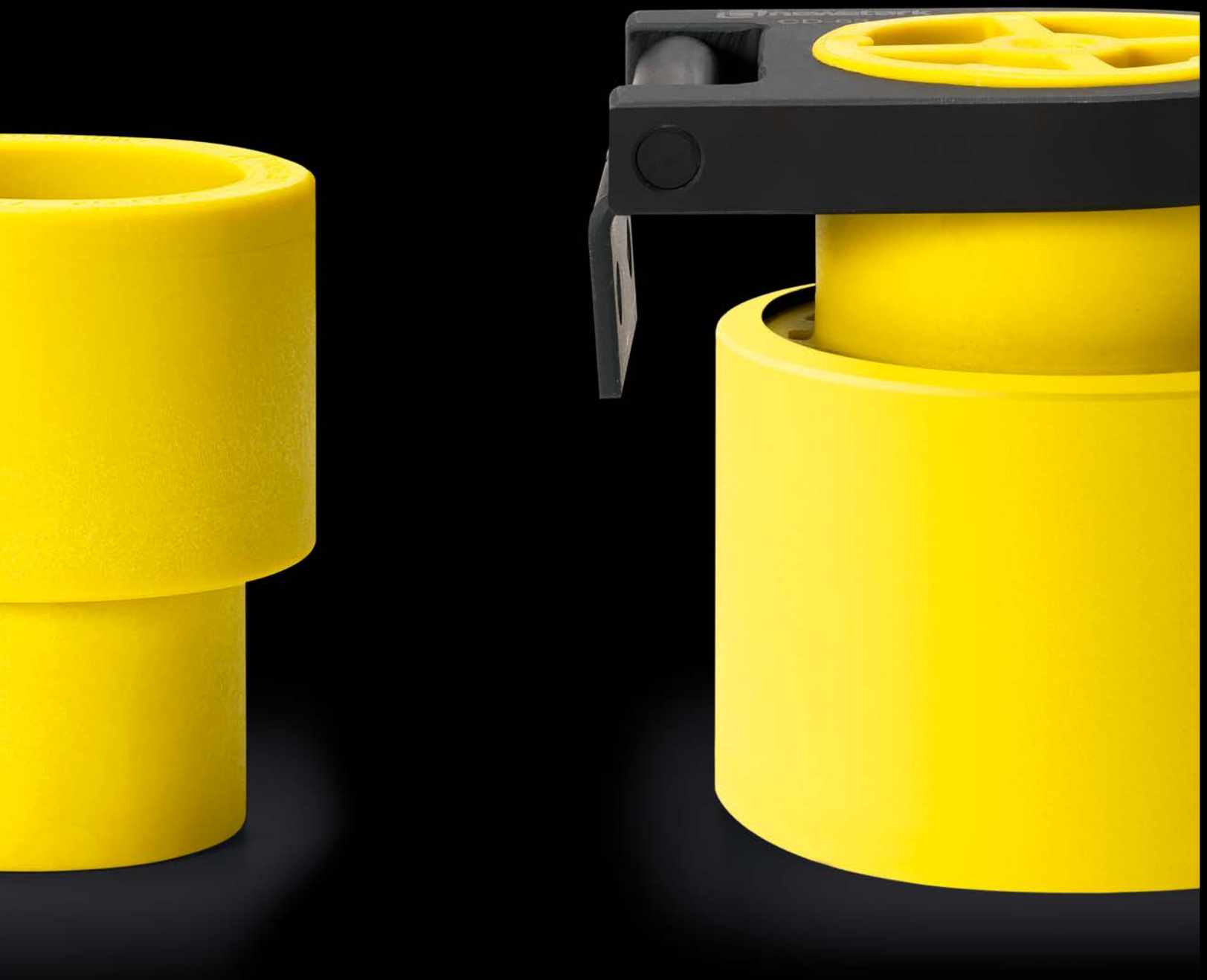
PATENT PENDING



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

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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.

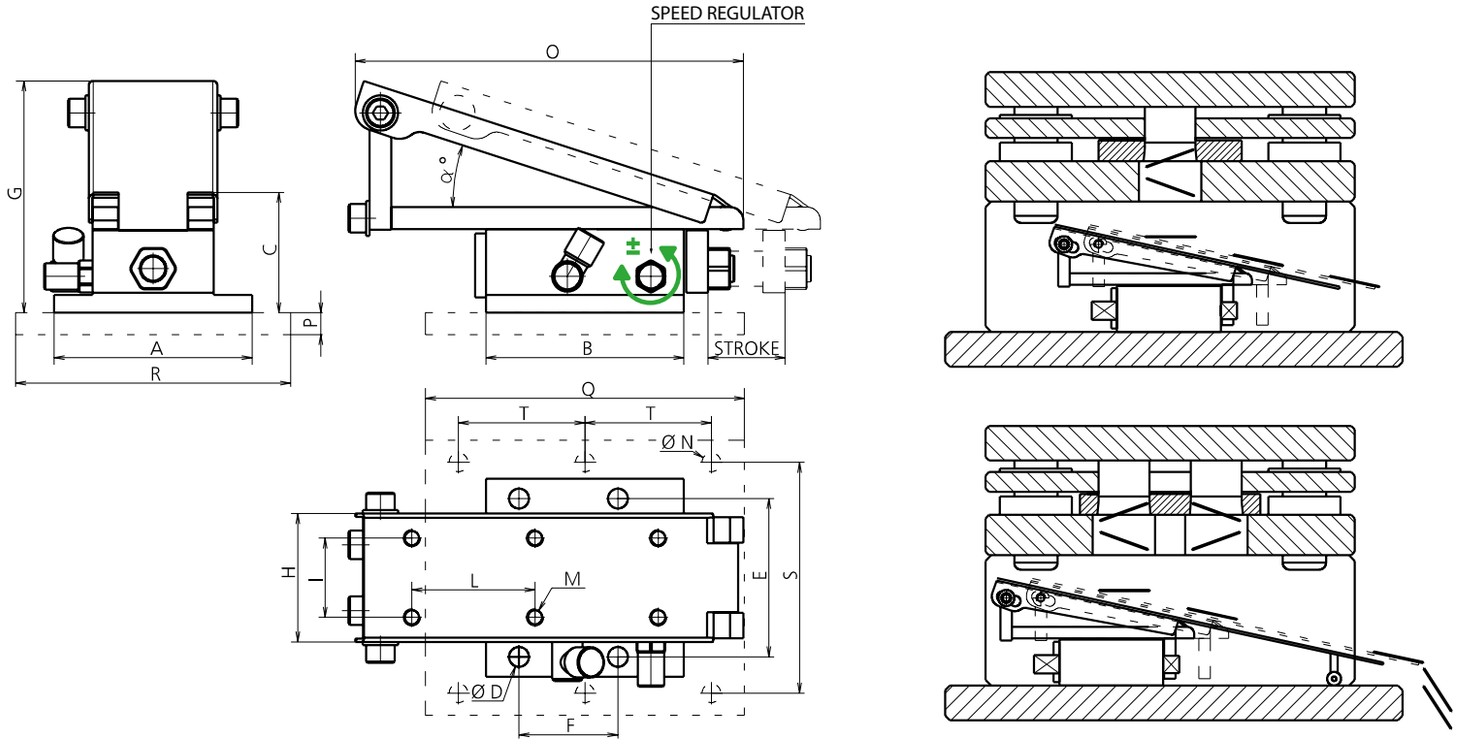
DE Transportmechanismus für Teile. Die Bewegung erfolgt durch ein schwingendes pneumatisches System, dass an einigen Punkten befestigt werden kann. Je nach Anforderungen können Transportbleche unterschiedlicher Abmessungen angebracht warden. Die Bleche haben ein Regelsystem der Neigung. Der Schlitten 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	Ø8.5	175	10	145	125	105	57,5	20°-4°	30	10 KG
0801.F050	2/5 BAR	\	\	72	\	\	\	140	96	\	\	M8	Ø9	220	10	208	140	127	63.5	20°-4°	45	50 KG

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

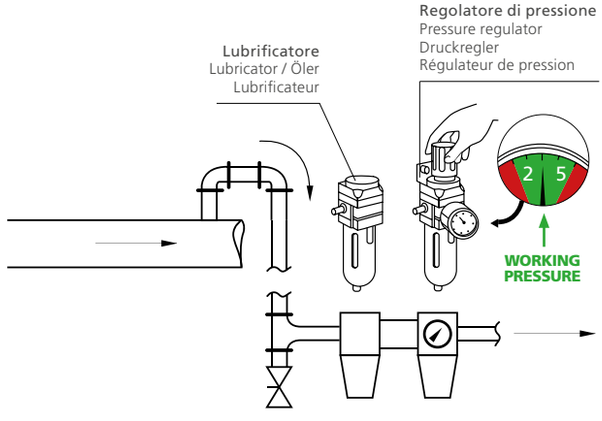
MODEL **0801** MAX LOAD **0005** OPTION CODE **9026.001**

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 KIT REGULATOR+LUBRICATOR/ KIT DRUCKREGLER UND ÖLER	*1 OPTION

⚠ 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!

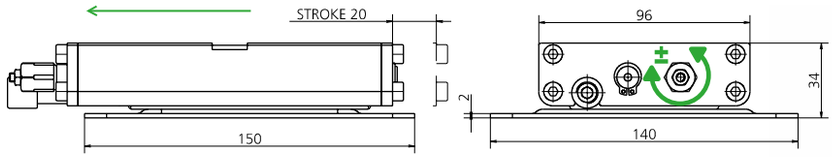
9026.001 KIT REGOLATORE+LUBRIFICATORE KIT REGULATOR+LUBRICATOR/ KIT DRUCKREGLER UND ÖLER

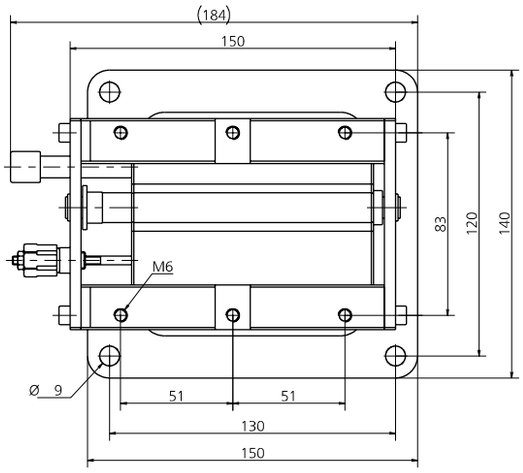


0804.0003 - **EVACUATORE PNEUMATICO**

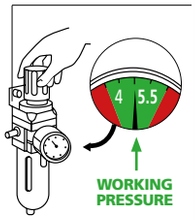
PNEUMATIC EJECTORS / PNEUMATISCHE TEILEFÖRDER / ÉVACUATEUR PNEUMATIQUE

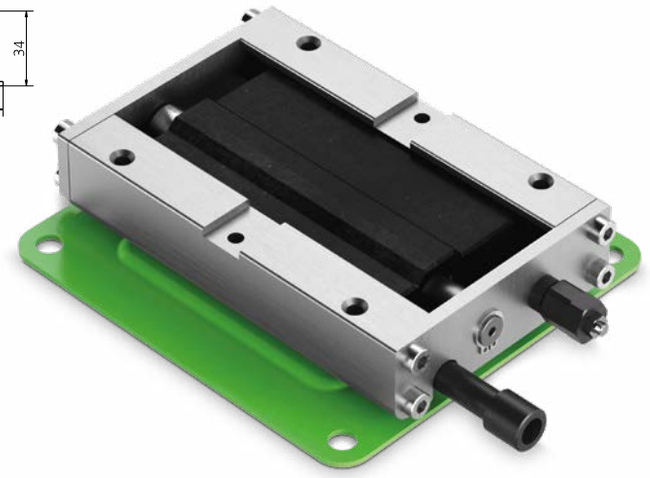
Direzione di avanzamento / Direction of travel
Transportrichtung / Direction d'avancement





Regolatore di pressione
Pressure regulator
Druckregler
Régulateur de pression





CODE	DESCRIPTION	Q.TY
8107.0803.0003.001	KIT RICAMBI / REPAIR KIT	*1 OPTION

ALIMENTAZIONE AD ARIA COMPRESSA FEED AIR COMPRESSED / SPEISUNG MIT PRESSLUFT / ALIMENTATION À AIR COMPRIMÉ	**4/5.5 BAR**
CARICO MASSIMO / MAXIMUM LOAD / MAXIMALE BELASTUNG/ CHARGE MAXIMALE	**3 kg**
CONSUMO D'ARIA /AIR CONSUMPTION / LUFTVERBRAUCH/ CONSOMMATION D'AIR	**0,55 l/min**
RUMORE / NOICE/ GERÄUSCH/ BRUIT	**68 db-A**

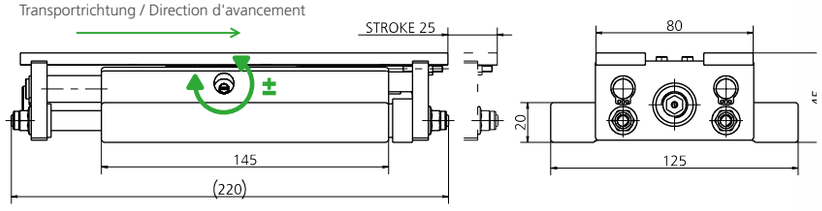
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

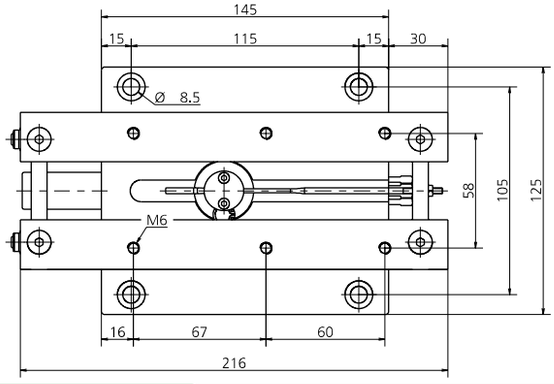
MODEL **0804** MAX LOAD **0003** OPTION CODE **9026.001**

0804.0010 - **EVACUATORE PNEUMATICO**

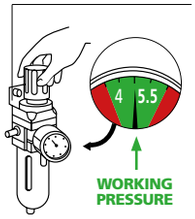
PNEUMATIC EJECTORS / PNEUMATISCHE TEILEFÖRDER / ÉVACUATEUR PNEUMATIQUE

Direzione di avanzamento / Direction of travel
Transportrichtung / Direction d'avancement





Regolatore di pressione
Pressure regulator
Druckregler
Régulateur de pression



CODE	DESCRIPTION	Q.TY
8107.0803.0010.001	KIT RICAMBI / REPAIR KIT	*1 OPTION

ALIMENTAZIONE AD ARIA COMPRESSA FEED AIR COMPRESSED / SPEISUNG MIT PRESSLUFT / ALIMENTATION À AIR COMPRIMÉ	**4/5.5 BAR**
CARICO MASSIMO / MAXIMUM LOAD / MAXIMALE BELASTUNG/ CHARGE MAXIMALE	**10 kg**
CONSUMO D'ARIA /AIR CONSUMPTION / LUFTVERBRAUCH/ CONSOMMATION D'AIR	**1.25 l/min**
RUMORE / NOICE/ GERÄUSCH/ BRUIT	**68 db-A**

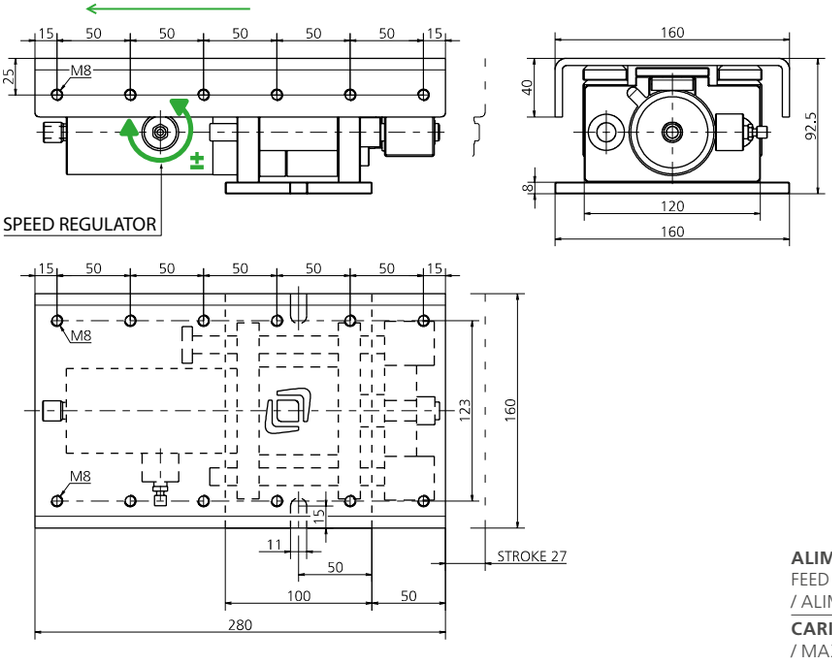
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0804** MAX LOAD **0010** OPTION CODE **9026.001**

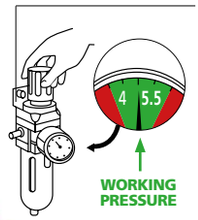
0804.0040 - EVACUATORE PNEUMATICO

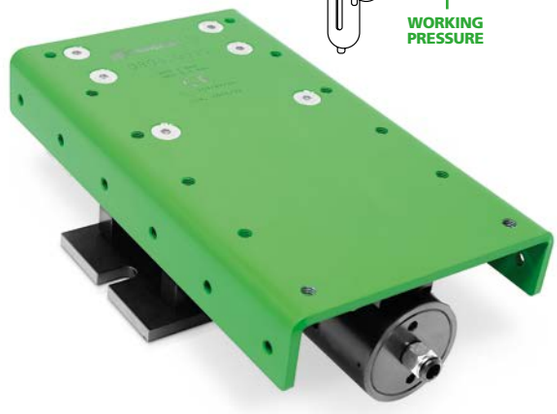
PNEUMATIC EJECTORS / PNEUMATISCHE TEILEFÖRDER / ÉVACUATEUR PNEUMATIQUE

Direzione di avanzamento / Direction of travel
Transportrichtung / Direction d'avancement



Regolatore di pressione
Pressure regulator
Druckregler
Régulateur de pression





CODE	DESCRIPTION	Q.TY
8107.0803.0040.001	KIT RICAMBI / REPAIR KIT	*1 OPTION

ALIMENTAZIONE AD ARIA COMPRESSA / FEED AIR COMPRESSED / SPEISUNG MIT PRESSLUFT / ALIMENTATION À AIR COMPRIMÉ	**4/5.5 BAR**
CARICO MASSIMO / MAXIMUM LOAD / MAXIMALE BELASTUNG/ CHARGE MAXIMALE	**40 kg**
CONSUMO D'ARIA /AIR CONSUMPTION / LUFTVERBRAUCH/ CONSOMMATION D'AIR	**5.42 l/min**
RUMORE / NOICE/ GERÄUSCH/ BRUIT	**70 db-A**

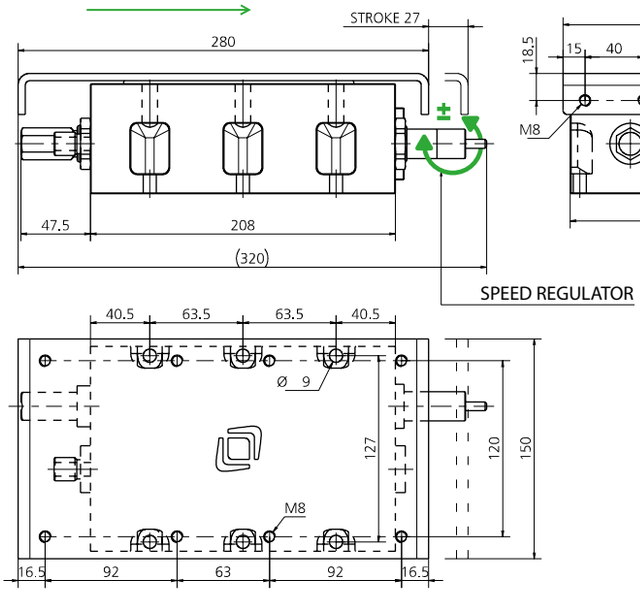
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0804** MAX LOAD **0040** OPTION CODE **9026.001**

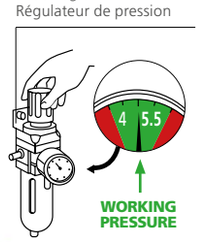
0804.0070 - EVACUATORE PNEUMATICO

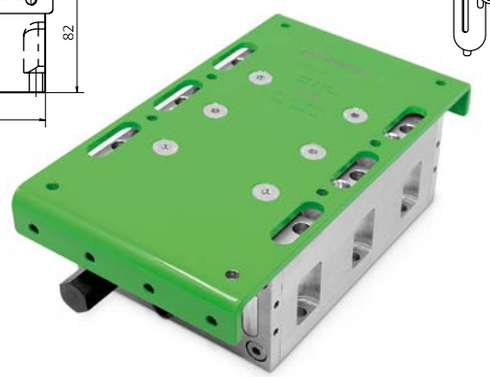
PNEUMATIC EJECTORS / PNEUMATISCHE TEILEFÖRDER / ÉVACUATEUR PNEUMATIQUE

Direzione di avanzamento / Direction of travel
Transportrichtung / Direction d'avancement



Regolatore di pressione
Pressure regulator
Druckregler
Régulateur de pression





CODE	DESCRIPTION	Q.TY
8107.0803.0070.001	KIT RICAMBI / REPAIR KIT	*1 OPTION

ALIMENTAZIONE AD ARIA COMPRESSA / FEED AIR COMPRESSED / SPEISUNG MIT PRESSLUFT / ALIMENTATION À AIR COMPRIMÉ	**4/5.5 BAR**
CARICO MASSIMO / MAXIMUM LOAD / MAXIMALE BELASTUNG/ CHARGE MAXIMALE	**70 kg**
CONSUMO D'ARIA /AIR CONSUMPTION / LUFTVERBRAUCH/ CONSOMMATION D'AIR	**5.42 l/min**
RUMORE / NOICE/ GERÄUSCH/ BRUIT	**70 db-A**

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

MODEL **0804** MAX LOAD **0070** OPTION CODE **9026.001**

EVACUATORI PNEUMATICI

PNEUMATIC EJECTORS / PNEUMATISCHE TEILEFÖRDER
ÉVACUATEURS PNEUMATIQUES

EVACUATORI ELETTRICI

ELECTRICAL EJECTORS / ELEKTRISCHE TEILEFÖRDER
ÉVACUATEURS ÉLECTRIQUES

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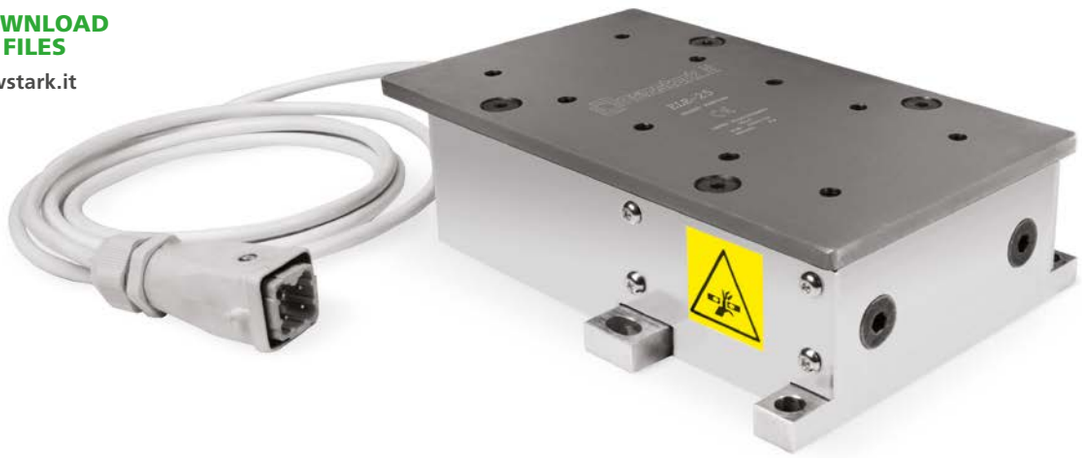


EVACUATORI ELETTRICI

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 Anzeigeleuchte, einen ON/OFF Schalter, ein Potentiometer zur Einstellung der Geschwindigkeit und ein Sicherheitsrelais, um den Motor sicher und sparsam laufen zu lassen.

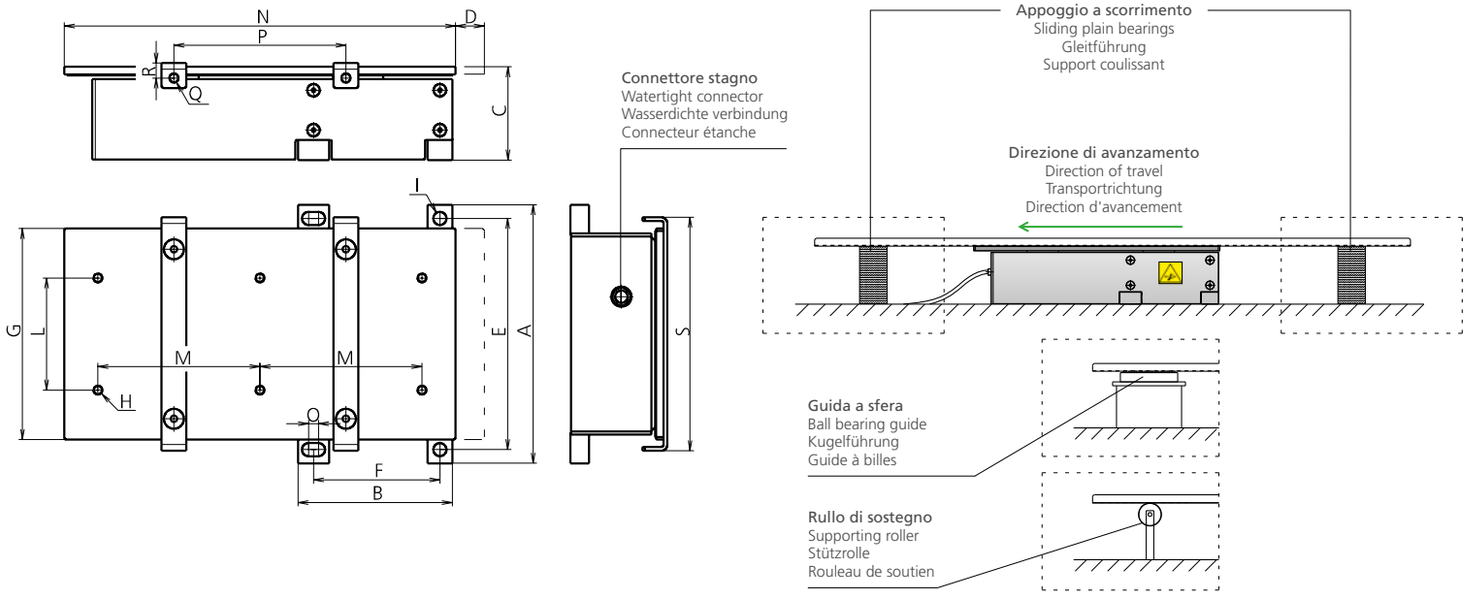
FR Mécanisme de transfert de matériaux par un système vibrant électrique, de très petite taille, applicable également dans les points d'évacuation inconfortables des pièces. Grâce à une glissière, il est possible d'appliquer des goulottes de différentes dimensions, selon les besoins de l'application et le fonctionnement est garantit 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

0802 - EVACUATORE ELETTRICO

ELECTRICAL EJECTORS / ELEKTRISCHE TEILEFÖRDER / ÉVACUATEUR ÉLECTRIQUE

PATENT PENDING



MODEL	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q	R	S	MAX LOAD
0802.0010	141	86	58	15	127	67,5	118	M8	Ø 8.5	70	75	208	8	100	M8	12	136	10 KG
0802.0025	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
8054.001	CENTRALINA/ POWER SUPPLY CONTROL UNIT/ STROMVERSORGUNG	1*OPTION

DIMENSIONI CENTRALINA
DIMENSIONS CONTROL UNIT
GRÖSSE STROMVERSORGUNG
DIMENSIONS CENTRALE
161 x 171 x 82 (h) mm

LA CENTRALINA SUPPORTA MASSIMO UN EVACUATORE
THE CONTROL UNIT SUPPORTS AN EJECTOR
DIE STROMVERSORGUNG STÜTZT BIS ZU EIN SCHWINGFÖRDER
LA CENTRALE SOUTIENT UN ÉVACUATEUR

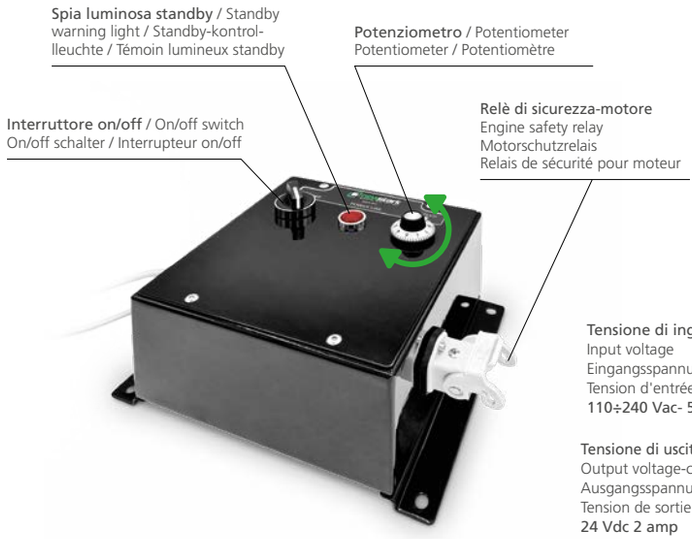
Per il corretto funzionamento dell'evacuatore è necessario l'uso della centralina 8054.001.

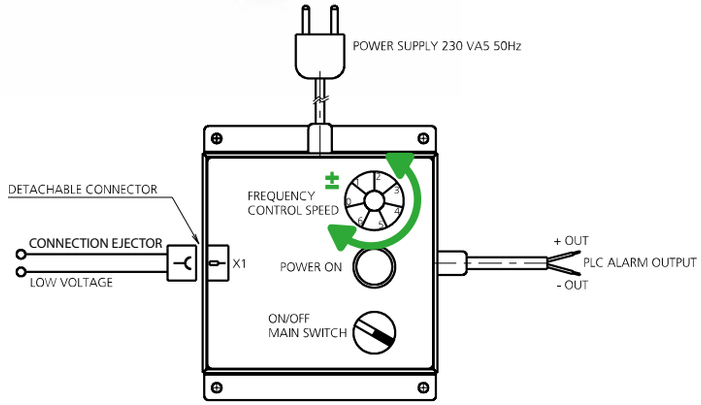
For the evacuator to function correctly, the control unit 8054.001 must be used.

Für den ordnungsgemäßen Betrieb des Evakuierers ist die Verwendung der Steuereinheit 8054.001 erforderlich.

Pour le bon fonctionnement de l'évacuateur, l'utilisation de l'unité de commande 8054.001 est nécessaire.

8054.001 CENTRALINA/ POWER SUPPLY CONTROL UNIT/ STROMVERSORGUNG





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

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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.

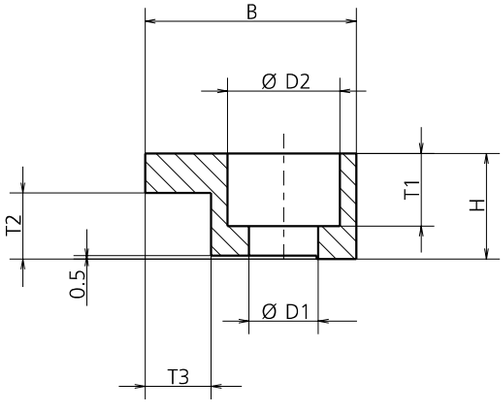
PRODUCT DESIGNED AND MANUFACTURED IN ITALY · RIGHT USE AND MAINTENANCE LONG TERM · PRODUCT AVAILABLE ON STOCK · SPARE PARTS ON STOCK · COMPETITIVE PRICE

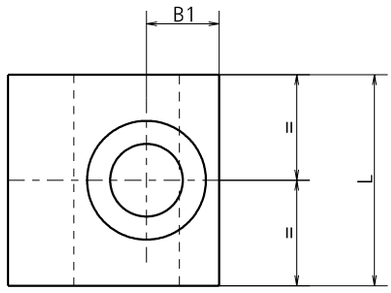
- APPROVED -

JLR

0501 - **STAFFA**

BRACKET / HALTESTÜCK / ÉTRIER





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

- APPROVED -

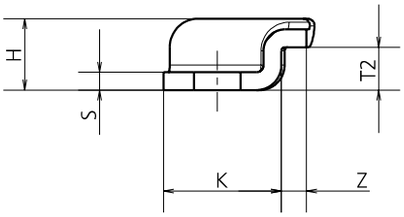
JLR

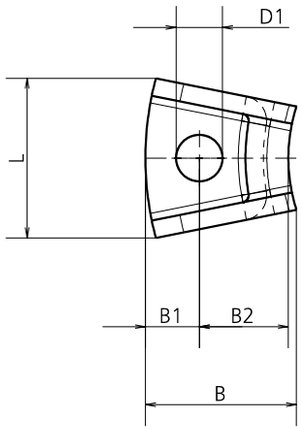
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

MODEL **0501** DIMENSIONS **2020.006**

0502 - **STAFFA**

BRACKET / HALTESTÜCK / ÉTRIER





MATERIALE / MATERIAL / MATERIAL / MATÉRIAU
S400MC

MODEL	B	B1	B2	Ø D1	H	K	L	S	T2	Z
0502.2221.005	21	7.5	12.5	6.5	10	16.5	20.5	2.5	5	3.5
0502.2221.006	21	7.5	12.5	6.5	10	16.5	20.5	2.5	6	3.5
0502.3025.005	25.5	9.5	15	9	13	21	30	3	5	3.5
0502.3025.006	25.5	9.5	15	9	13	21	30	3	6	3.5

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

MODEL **0502** DIMENSIONS **2221.006**

NASTRI TRASPORTATORI

FLAT CONVEYOR BELTS / FÖRDERBÄNDER FLACHES BAND
CONVOYEURS

100% CUSTOMISABLE PRODUCT

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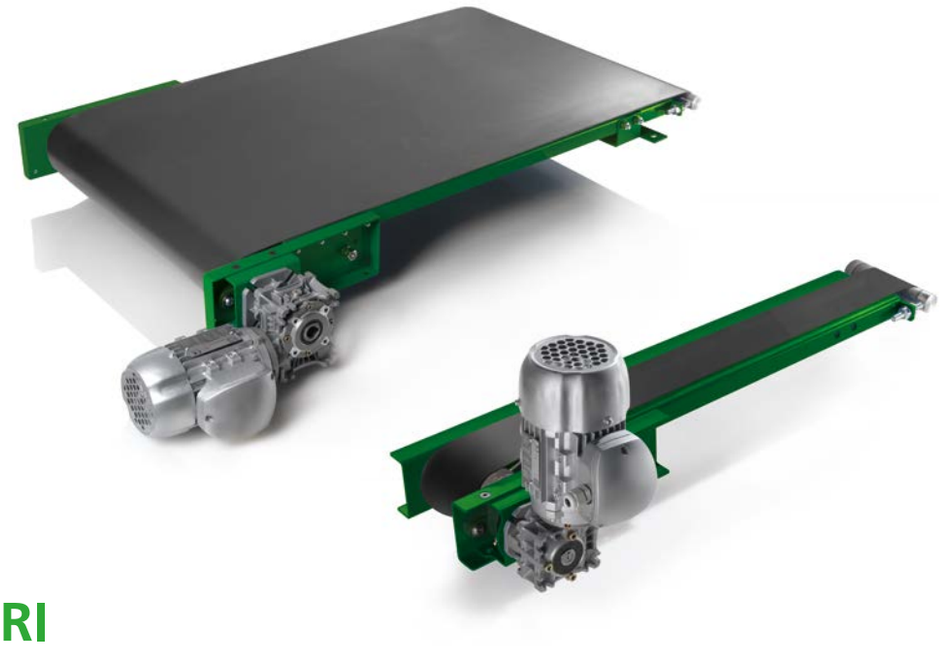


NASTRI TRASPORTATORI

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.

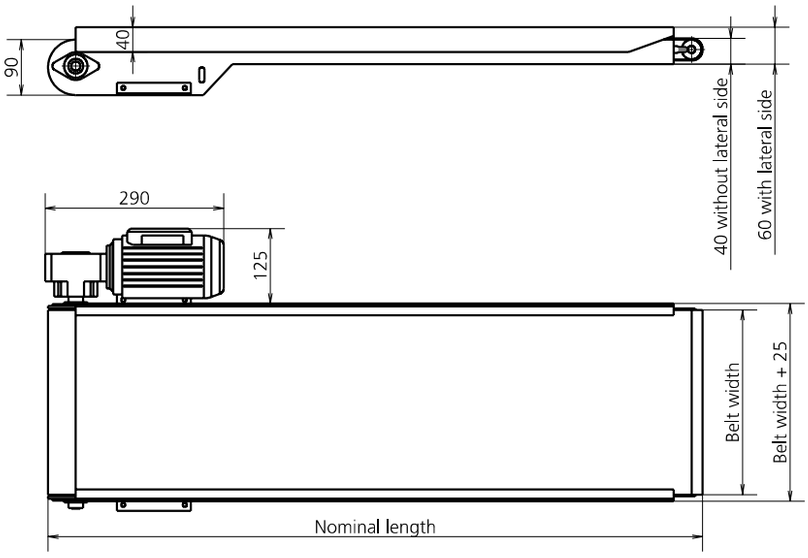
PRODUCT DESIGNED AND MANUFACTURED IN ITALY · RIGHT USE AND MAINTENANCE LONG TERM · SPARE PARTS ON STOCK · COMPETITIVE PRICE

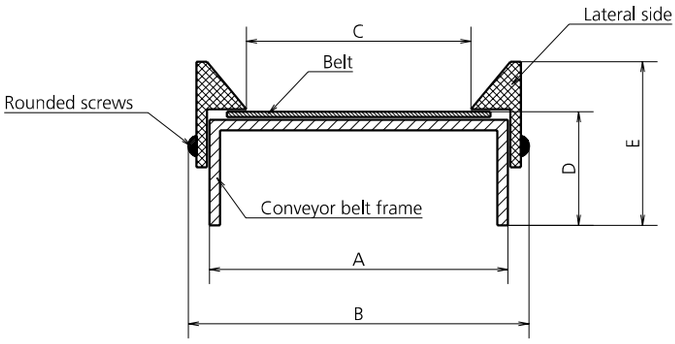
PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE

HIGH QUALITY MATERIALS · WIDE RANGE OF SIZES · PRESENCE OF FIXING POINTS · CE

0701 - NASTRO TRASPORTATORE PIANO

FLAT CONVEYOR BELT / FÖRDERBÄNDER FLACHES BAND / CONVOYEUR PLAT





MATERIALE DEL TAPPETO / BELT MATERIAL / BAND MATERIAL / MATÉRIAU DU TAPIS: **Poliuretano** / Polyurethane / Polyurethan / Polyuréthane

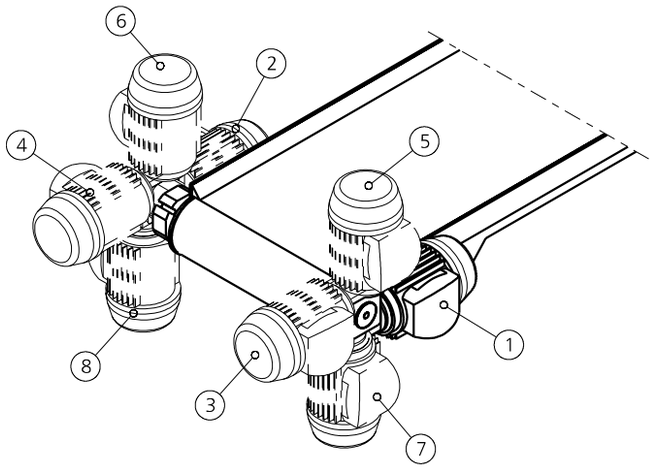
LUNGHEZZA MASSIMA / MAXIMUM LENGTH / MAXIMALE LÄNGE / LONGUEUR MAXIMALE: **3000 mm**

LARGHEZZA DEL TAPPETTO / BELT WIDTH / GURTBREITE / LARGEUR DE BANDE		**50**	**60**	**70**	**90**	**100**	**120**	**150**	**170**	**180**	**200**	**220**	**250**	**300**	**400**	**500**	**600**	**700**
LARGHEZZA SENZA SPONDE / WIDTH WITHOUT SIDES / BREITE OHNE SEITEN / LARGEUR SANS CÔTÉS	A (mm)	63	73	83	103	113	133	163	183	193	213	233	263	313	413	513	613	713
LARGHEZZA CON SPONDE / WIDTH WITH SIDES / BREITE MIT SEITEN / LARGEUR AVEC CÔTÉS	B (mm)	75	85	95	115	125	145	175	195	205	225	245	275	325	425	525	625	725
LARGHEZZA SCORRIMENTO NASTRO / BELT SLIDE WIDTH / LAUFBREITE DES GÜRTELS / LARGEUR DE MARCHE DE LA BANDE	C (mm)	33	43	53	73	83	103	133	153	163	183	203	233	283	383	483	583	683
ALTEZZA SENZA SPONDE / HEIGHT WITHOUT SIDES / HÖHE OHNE SEITEN / HAUTEUR SANS CÔTÉS	D (mm)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
ALTEZZA CON SPONDE / HEIGHT WITH SIDES / HÖHE MIT SEITEN / HAUTEUR AVEC CÔTÉS	E (mm)	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60

VELOCITÀ NASTRO / BELT SPEED / BANDGESCHWINDIGKEIT / VITESSE DU TAPIS

1 = 5.8 mt/min
2 = 8.5 mt/min
3 = 11.3 mt/min
4 = 17 mt/min
5 = 22.7 mt/min
6 = 34 mt/min
7 = 45.3 mt/min
8 = 68 mt/min

POSIZIONE MOTORE / MOTOR POSITION / MOTORPOSITION / POSITION DU MOTEUR



CODE	DESCRIPTION	Q.TY
9025.001	INTERRUTTORE / SWITCH / SCHALTER ON-OFF	*1 OPTION

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** NOMINAL LENGTH **3000** BELT WIDTH **250** MOTOR POSITION **1** SPEED **2** OPTION CODE **9025.001**

NASTRI TRASPORTATORI

FLAT CONVEYOR BELTS / FÖRDERBÄNDER FLACHES BAND
CONVOYEURS

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newstark
INNOVATIVE METAL SOLUTIONS

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.

HIGH PERFORMANCE DIE COMPONENTS.

MADE IN ITALY

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INNOVATIVE METAL SOLUTIONS

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Padova - Italy

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