

WE MAKE
INNOVATION
/ 2024



 **newstark**[®]
INNOVATIVE METAL SOLUTIONS



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



Unità molto precisa.
Accurate unit.
Einheit sehr präzise.



Velocità regolabile.
Adjustable speed.
Regulierbare Geschwindigkeit.



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



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



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



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



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



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



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



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



Prezzo competitivo.
Competitive price.
Wettbewerbsfähigen Preis.



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



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



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



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



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



Facilità nella manutenzione.
Easy maintenance.
Einfache Wartung.



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



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



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



Corsa lunga.
Long stroke.
Leistungsstarker Hub.



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



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



Intercambiabilità.
Interchangeability.
Austauschbarkeit.



Lunga durata.
Long duration.
Lange Lebensdauer.



Basso consumo.
Low power consumption.
Geringer Verbrauch.



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



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



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



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



Inclinazione minima.
Minimum inclination.
Minimale Neigung.



Rumorosità minima.
Minimum noise.
Geräuscharm.



NEWSTARK, PER SPINGERSI OLTRE

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

NEWSTARK, TO GO FURTHER

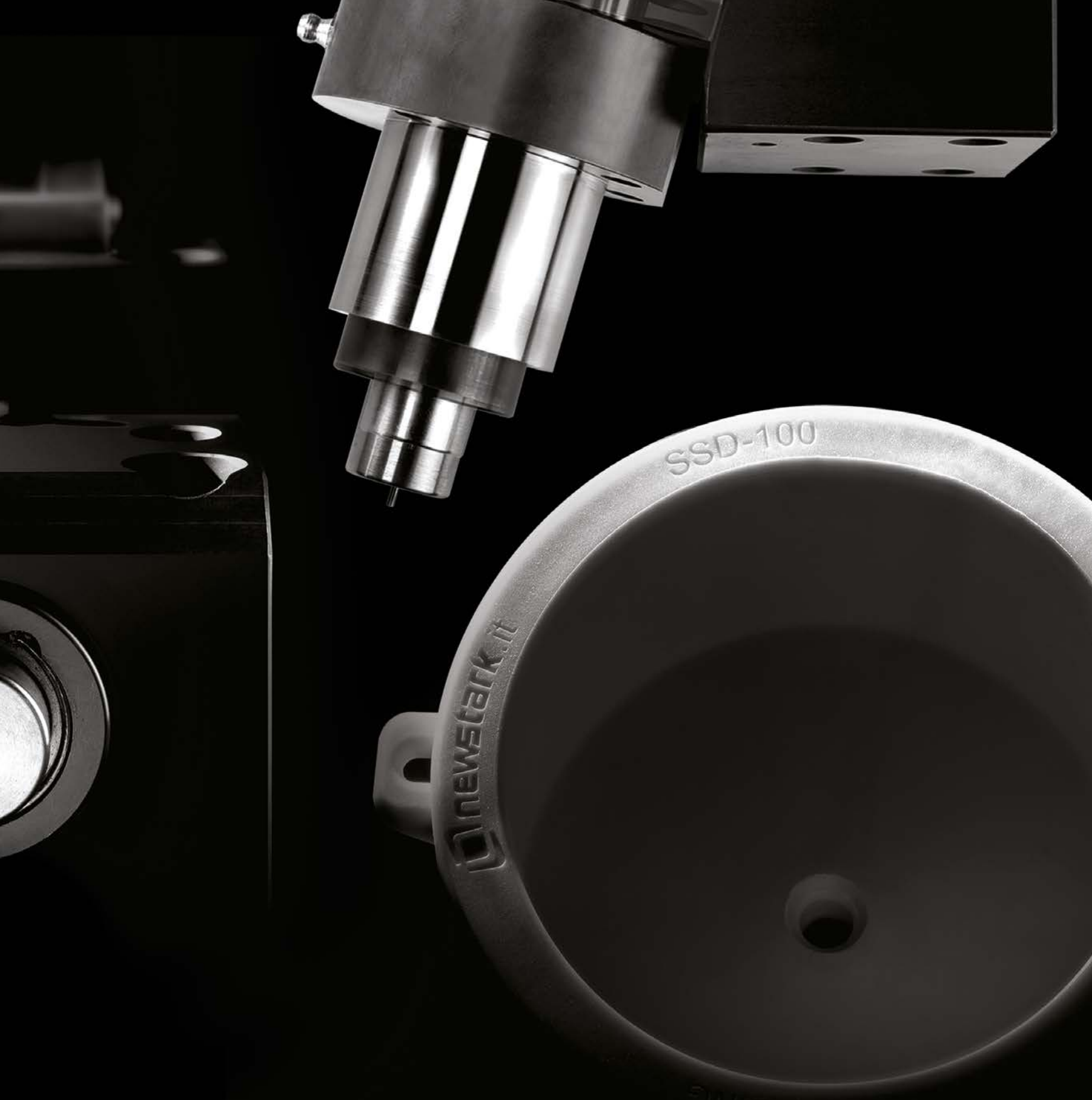
The name of Newstark was born to be leader in innovation of high performance components for dies. Ideal partner to ensure technologically advanced solutions, with specific technical know-how according with your needs for performance and quality. Newstark, a brand of Essemec S.r.l. Unipersonale, company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

NEWSTARK, UM GRENZEN ZU ÜBERSCHREITEN

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

NEWSTARK, POUR ALLER PLUS LOIN

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



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NEWSTARK SE RÉSERVE LE DROIT DE MODIFIER CE CATALOGUE SANS PRÉAVIS. LES PHOTOS ET LES DESSINS DE CE CATALOGUE APPARTIENNENT À NEWSTARK. TOUTE REPRODUCTION, MÊME PARTIELLE, DE CE CATALOGUE EST INTERDITE.



CAMS

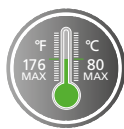
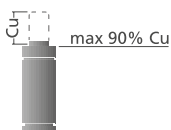
TRANCIATURA MECCANICA / FORATURA / PIEGATURA
MECHANIC SHEARING / DRILLING / BENDING
MECHANISCHE STANZEINHEIT-SCHIEBER / PRÄGEN / BIEGEN
TRANCHAGE MÉCANIQUE / PERÇAGE / PLIAGE

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 DÉACTIVER LES DISPOSITIFS DE SÉCURITÉ ÉLECTRONIQUES (S'IL Y EN A).

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

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

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

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

ALLE ZYLINDER SIND MIT EINER HUB VOM HERSTELLER ANGEGBENEN. DAHER KANN DER NENNWERT CU KOMPLETT VERWENDET WERDEN. WIR EMPFEHLEN, AUF DIE MAXIMAL AUF DAS RENNEN ANGEGBENEN NICHT ZU ÜBERSCHREITEN, UM EINEN EVENTUELLEN ÜBERLAUF ZU VERMEIDEN, DER DURCH ÄNDERUNGEN ODER FEHLER AN DEN PRESSFORMER VERURSACHT WERDEN UND IRREPARABLE SCHÄDEN AN DEN STANZEINHEITEN SOWIE SCHWERWIEGENDE SICHERHEITSRISIKOS 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 ANGEGBENEN DRUCKWERT NICHT. / LORS DU CHARGEMENT, NE PAS DÉPASSER LA PRESSION MAXIMALE RECOMMANDÉE POUR CHAQUE MODÈLE.

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

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

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

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

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

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

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

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

DIE WARTUNG SOLLTE NUR VON QUALIFIZIERTEN PERSONAL VORGENOMMEN WERDEN. ETWAIGE FEHLER KÖNNEN SCHWERWIEGENDE SICHERHEITSRISIKEN 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 ALL PRESSURE BEFORE ANY FORM OF HANDLING. / WEIST DIE STRUKTUR EINES ZYLINDERS BESCHÄDIGUNGEN AUF, MUSS VOR JEDEM EINGRIFF DER DRUCK KOMPLETT ABGELASSEN WERDEN. / SI UN CYLINDRE A UNE STRUCTURE ENDOMMAGÉE, VIDER COMPLÈTEMENT LA PRESSION AVANT TOUTE MANIPULATION.



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



CAM MAE

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

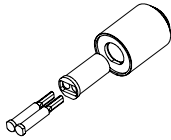


PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE



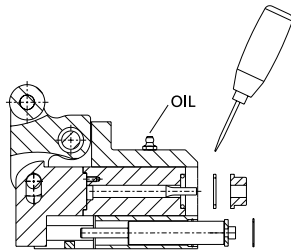
CAM MAE

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



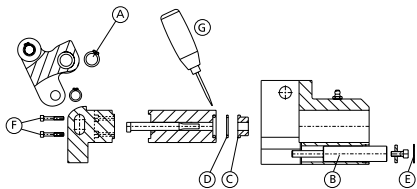
- ⚠ È possibile inserire più punzoni nella stessa unità!
It is possible put more punches in the same unit!
Es ist möglich, setzen mehr Lochstempel in der gleichen Einheit!
Il est possible d'insérer plusieurs poinçons dans la même unité!

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



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

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



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

- IT** **Attenzione:** Assicurarsi che la camma sia nella sua posizione normale prima di eseguire qualsiasi lavoro di smontaggio o manutenzione.
1. Togliere il cilindro "B" rimuovendo il seeger "E" come indicato.
2. Togliere il cilindro speciale rimuovendo il seeger "A".
3. Togliere viti "F" per controllare il punzone.
4. Rimuovere il seeger "D" togliendo lo stripper "C".
L'utensile "G" per rimuovere "D" è a disposizione su richiesta.
5. Eseguire le verifiche.
6. Rimontare con cura lubrificando con grasso bisolfuro di Molibdeno (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).

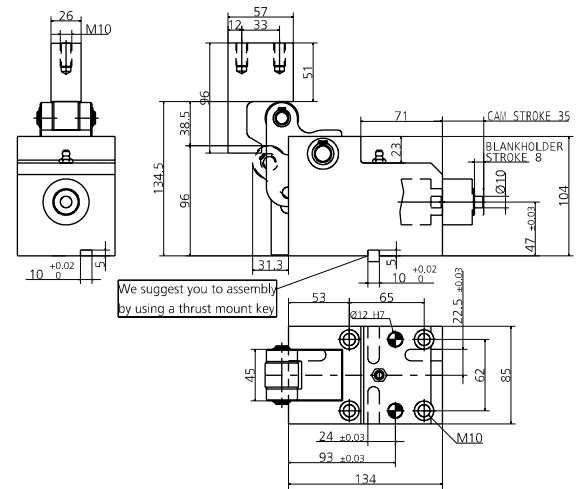
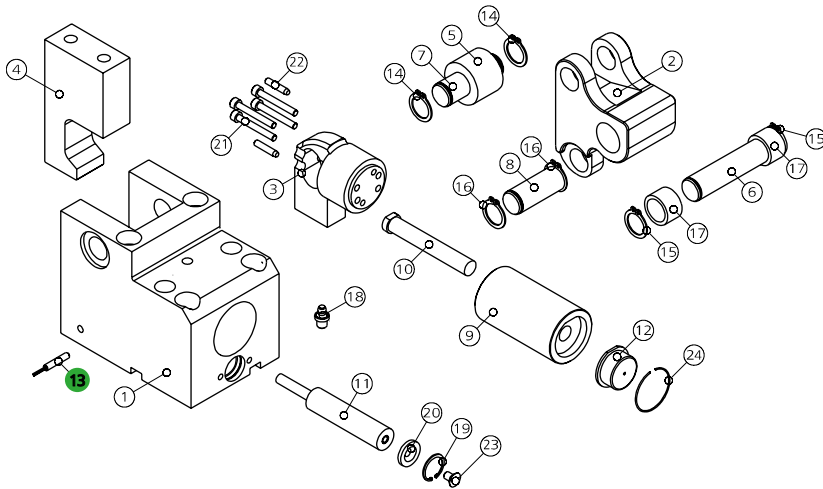
- EN** **Attention:** Undertake reassembly or maintenance work only when the cam unit is in its basic position.
1. Take off the cylinder "B" by removing the seeger "E" as shown.
2. Take off the special cylinder by removing the seeger "A" as shown.
3. Take off the screws "F" to change the punch.
4. Take off the seeger "D" by removing stripper "C".
The tool "G" to remove "D" is available on request.
5. Check the components.
6. Reassemble carefully using grease with disulfide molybdeno (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).

- DE** **Achtung:** Wartungs- und Demontearbeiten nur in Grundstellung der Stanzeinheit vornehmen.
1. Seegering "E" entfernen um den Gasdruckfeder "B" herauszuziehen.
2. Spezielle Zylinder herausnehmen um Seegering "A" herausziehen.
3. Schrauben "F" lösen um den Lochstempel zu wechseln.
4. Sprengring "D" herausnehmen um den Abstreifer "C" zu entfernen.
Ein Werkzeug "G" zur Entfernung von Teil "D" ist auf Anfrage lieferbar.
5. Komponenten prüfen.
6. Montage in umgekehrter Reihenfolge unter Verwendung von Molybdändisulfidfett (MoS₂). Die Verwendung dieses Fett wird durch Newstark empfohlen.
7. 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 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).

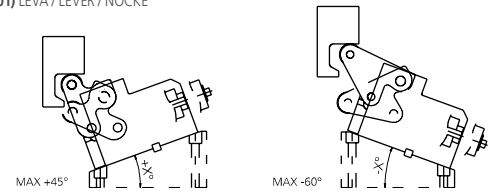
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **505 daN**
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1110 daN**
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

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

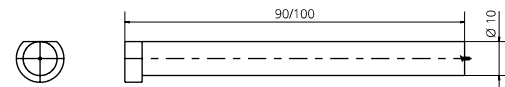


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0043.0505	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8001.0043.0505.000	LEVA / LEVER / NOCKE 0	1
002	8001.0043.0505.615	LEVA / LEVER / NOCKE +1 +15	1*OPTION
002	8001.0043.0505.630	LEVA / LEVER / NOCKE +15,01 +30	1*OPTION
002	8001.0043.0505.645	LEVA / LEVER / NOCKE +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 / UNTERLEGSCHIBE	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

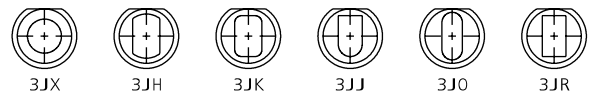
002 (8001) LEVA / LEVER / NOCKE



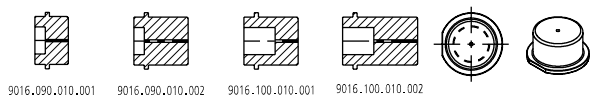
010 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



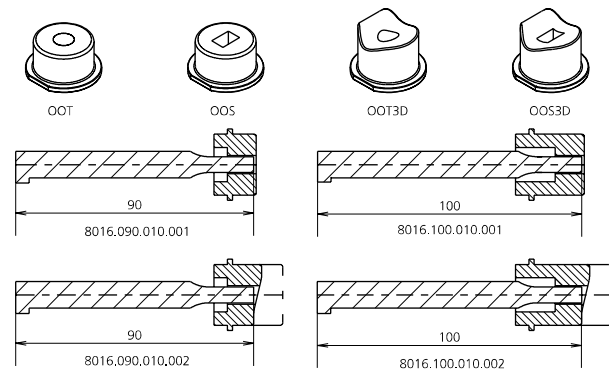
010 (093J_) PUNZONE SAGOMATO / SHAPED PUNCH / GEFORMT SCHNEIDSTEMPEL ISO8020



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



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



013 (9003) SENSORE / SENSOR / SENSOR



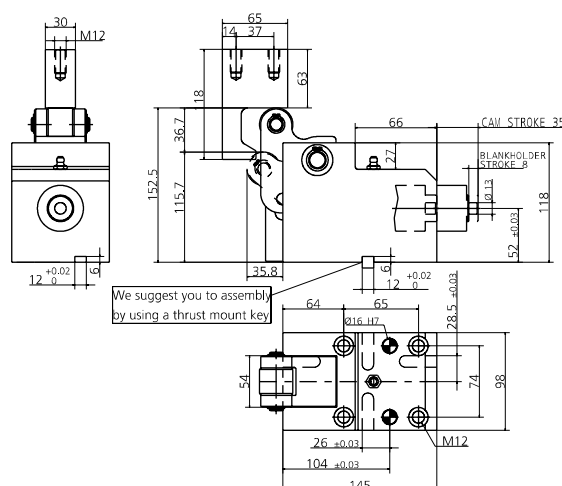
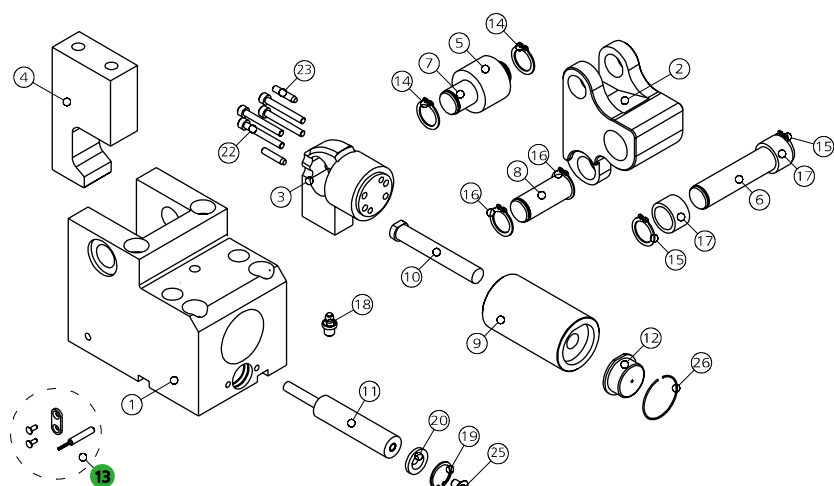
13 PATENT PENDING

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

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

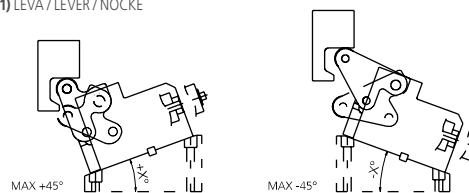
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **695 daN**
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1530 daN**
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

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

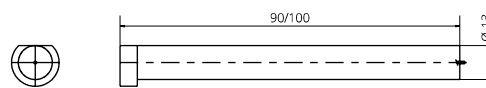


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0043.0695	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8001.0043.0695.000	LEVA / LEVER / NOCKE 0	1
002	8001.0043.0695.615	LEVA / LEVER / NOCKE +0.01 +15	1*OPTION
002	8001.0043.0695.630	LEVA / LEVER / NOCKE +15.01 +30	1*OPTION
002	8001.0043.0695.645	LEVA / LEVER / NOCKE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

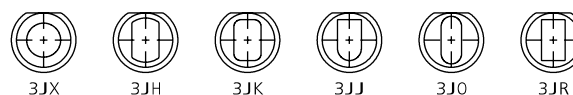
002 (8001) LEVA / LEVER / NOCKE



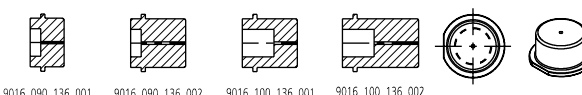
0010 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



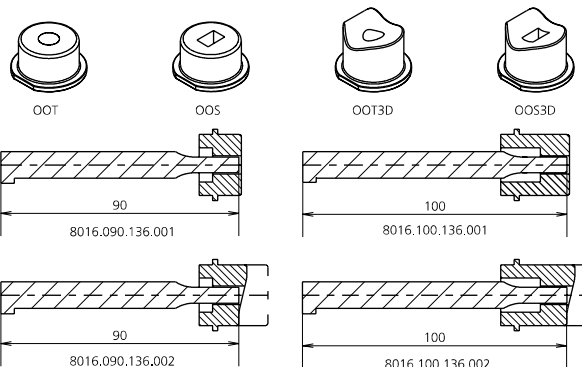
010 (093J_) PUNZONE SAGOMATO / SHAPED PUNCH / GEFORMT SCHNEIDSTEMPEL ISO8020



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



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



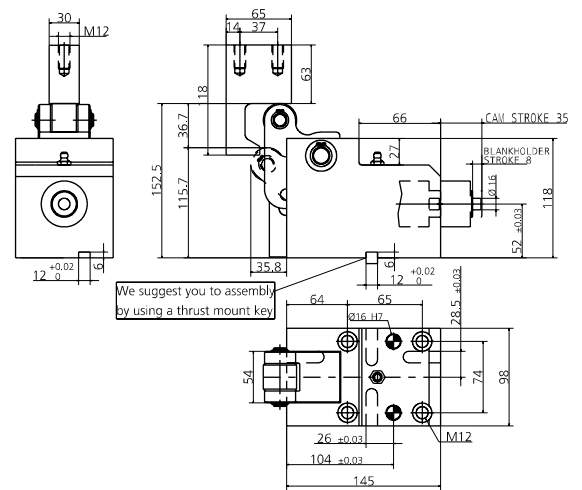
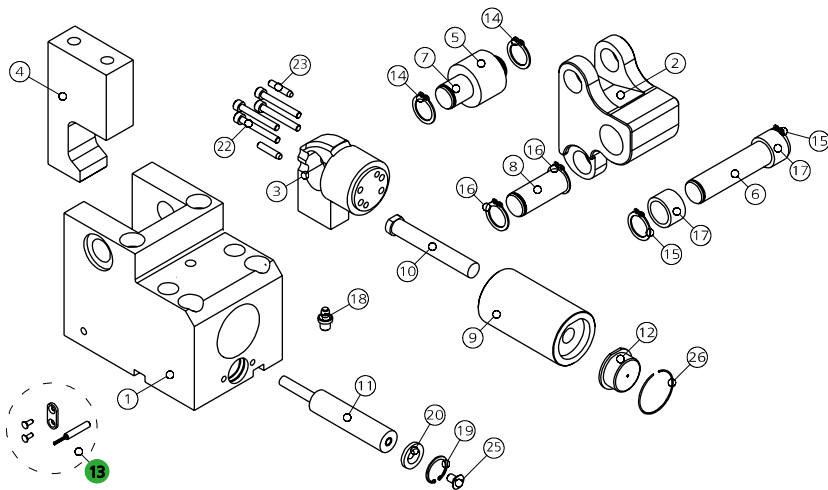
013 (8107) SENSORE / SENSOR / SENSOR



13 PATENT PENDING

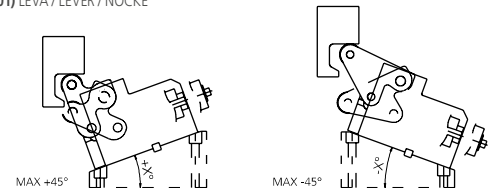
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **695 daN**
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1530 daN**
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

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

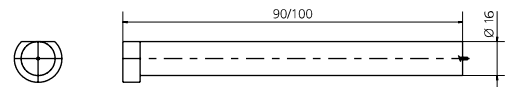


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0043.0695	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8001.0043.0695.000	LEVA / LEVER / NOCKE 0	1
002	8001.0043.0695.615	LEVA / LEVER / NOCKE +0.01 +15	1*OPTION
002	8001.0043.0695.630	LEVA / LEVER / NOCKE +15.01 +30	1*OPTION
002	8001.0043.0695.645	LEVA / LEVER / NOCKE +30.01 +45	1*OPTION
002	8001.0043.0695.715	LEVA / LEVER / NOCKE -0.01 -15	1*OPTION
002	8001.0043.0695.730	LEVA / LEVER / NOCKE -15.01 -30	1*OPTION
002	8001.0043.0695.745	LEVA / LEVER / NOCKE -30.01 -45	1*OPTION
003	8002.0043.0695	FLANGIA / FLANGE / FLANSCH	1
004	8003.1180.0650.300.001	INCUDINE / ANVIL / DRUCKSTÜCK	1*OPTION
005	8004.0370.0280.200.001	ROTELLA / ROLLER / ROLLE	1
006	8005.0980.0910.200.001	PERNO / PIN / STIFT	1
007	8005.0610.0540.200.001	PERNO / PIN / STIFT	1
008	8005.0530.0460.200.001	PERNO / PIN / STIFT	1
009	9030.016.001	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 / UNTERLEGSCHIBE	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

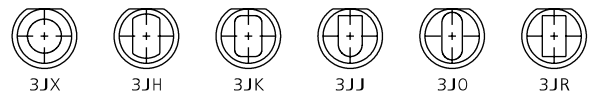
002 (8001) LEVA / LEVER / NOCKE



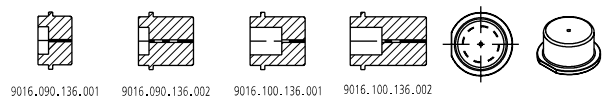
010 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



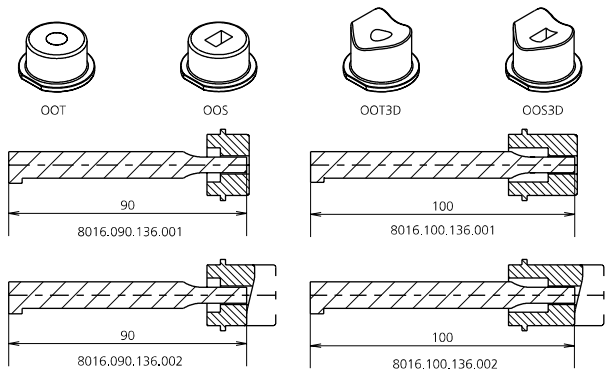
010 (093J_) PUNZONE SAGOMATO / SHAPED PUNCH / GEFORMT SCHNEIDSTEMPEL ISO8020



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



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



013 (8107) SENSORE / SENSOR / SENSOR



16 PATENT PENDING

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

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

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE 1160 daN

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION 2550 daN

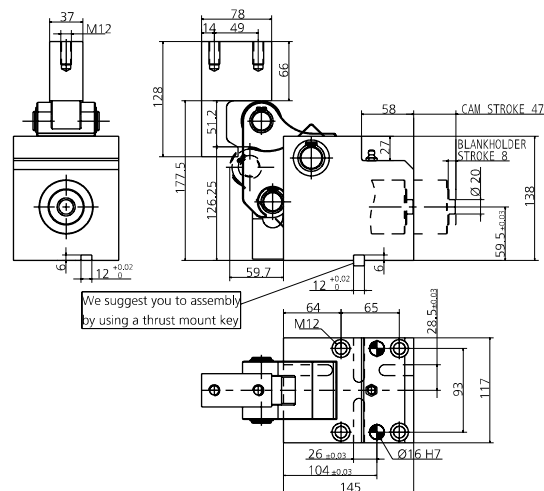
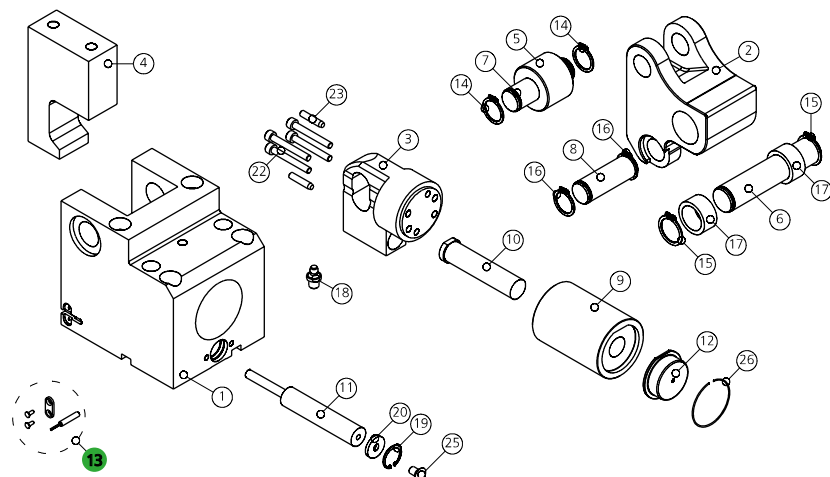
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SPORZO MAX TRANCIO 9000 daN

CUTTING MAX FORCE

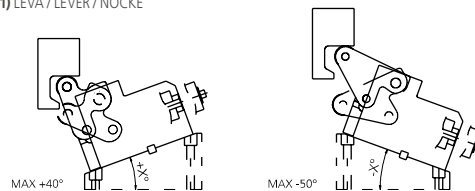
MAXIMALE SCHNITTKRAFT

EFFORT MAXI DÉCOUPE

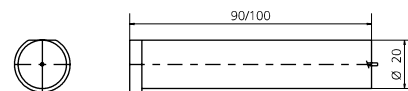


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0043.1160	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8001.0043.1160.000	LEVA / LEVER / NOCKE 0	1
002	8001.0043.1160.610	LEVA / LEVER / NOCKE +0.01 +10	1*OPTION
002	8001.0043.1160.620	LEVA / LEVER / NOCKE +10.01 +20	1*OPTION
002	8001.0043.1160.630	LEVA / LEVER / NOCKE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

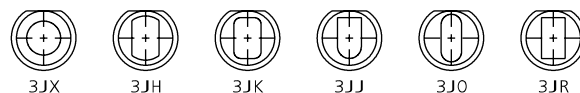
002 (8001) LEVA / LEVER / NOCKE



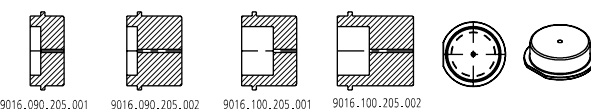
0010 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



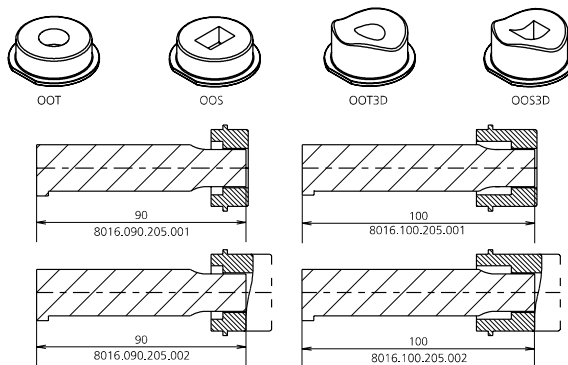
010 (093J_) PUNZONE SAGOMATO / SHAPED PUNCH / GEFORMT SCHNEIDSTEMPEL ISO8020



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



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



013 (8107) SENSORE / SENSOR / SENSOR

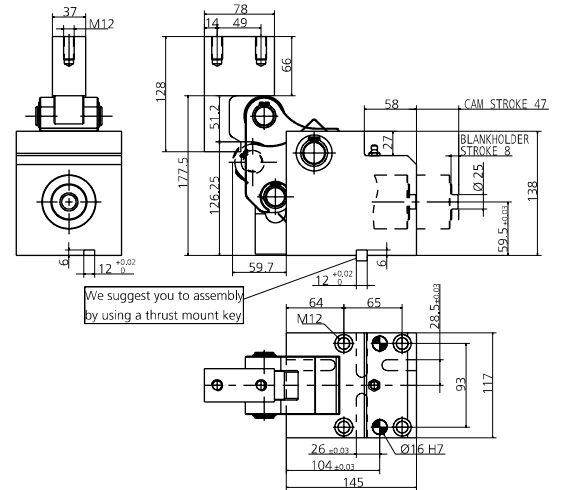
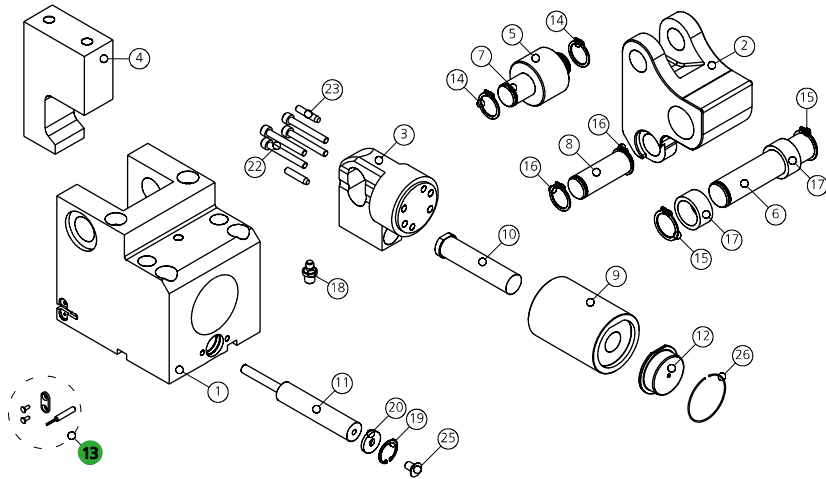


13 PATENT PENDING

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

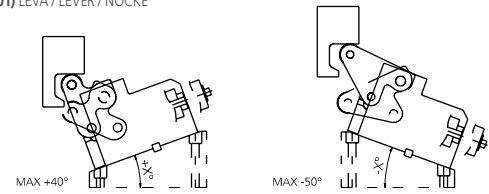
MODEL 0143.1160 INCLINAZIONE +10° BLANKHOLDER 9016/8016._____ OPTION CODE 8001.0043.1160.610

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

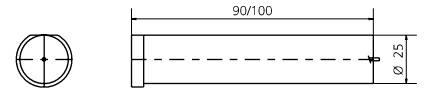


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0043.1160	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8001.0043.1160.000	LEVA / LEVER / NOCKE 0	1
002	8001.0043.1160.610	LEVA / LEVER / NOCKE +0.01 +10	1*OPTION
002	8001.0043.1160.620	LEVA / LEVER / NOCKE +10.01 +20	1*OPTION
002	8001.0043.1160.630	LEVA / LEVER / NOCKE +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 / UNTERLEGSCHIBE	1
022	9007.06.035.129.1.4762	VITE / SCREW / SCHRAUBE M6X35	4
023	9028.060.020.8735	SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D6X20	2
025	9007.06.014.129.1.5933	VITE / SCREW / SCHRAUBE M6X14	1
026	9004.2480.001	SEEGER / SEEGER / SEEGERRING	1

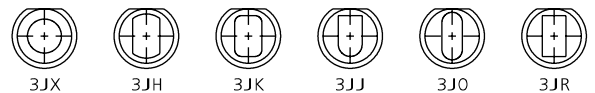
002 (8001) LEVA / LEVER / NOCKE



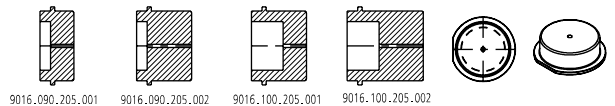
010 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



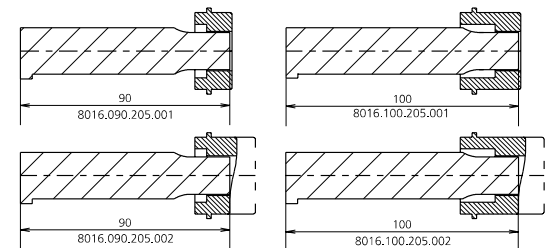
010 (093J_) PUNZONE SAGOMATO / SHAPED PUNCH / GEFORMT SCHNEIDSTEMPEL ISO8020



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



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



013 (8107) SENSORE / SENSOR / SENSOR



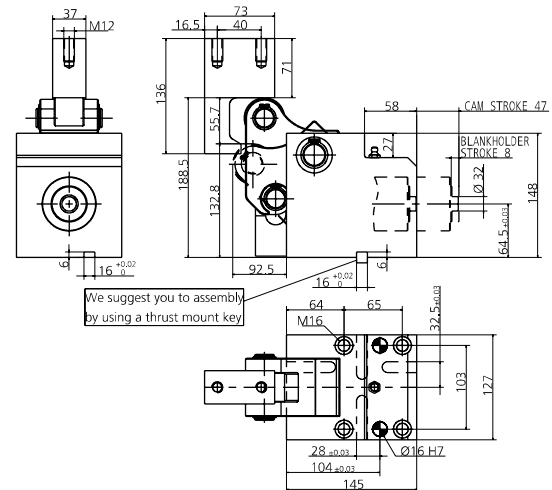
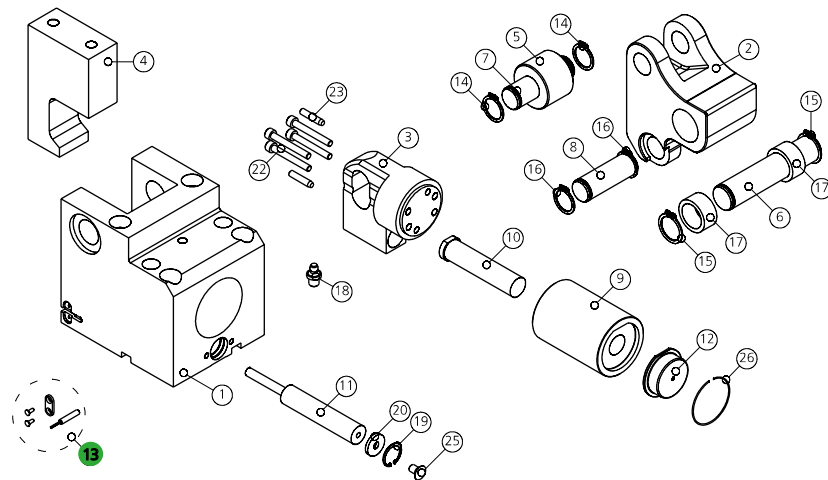
13 PATENT PENDING

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

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

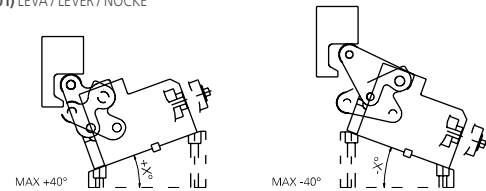
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE 1390 daN
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION 3050 daN
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION

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

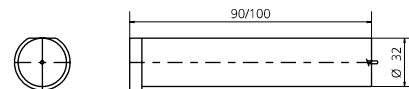


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0043.1390	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8001.0043.1390.000	LEVA / LEVER / NOCKE 0	1
002	8001.0043.1390.610	LEVA / LEVER / NOCKE +0.01 +10	1*OPTION
002	8001.0043.1390.620	LEVA / LEVER / NOCKE +10.01 +20	1*OPTION
002	8001.0043.1390.630	LEVA / LEVER / NOCKE +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 / UNTERLEGSCHIBE	1
022	9007.06.035.129.1.4762	VITE / SCREW / SCHRAUBE M6X35	4
023	9028.060.020.8735	SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D6X20	2
025	9007.06.014.129.1.5933	VITE / SCREW / SCHRAUBE M6X14	1
026	9004.2570.001	SEEGER / SEEGER / SEEGERRING	1

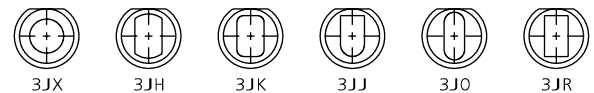
002 (8001) LEVA / LEVER / NOCKE



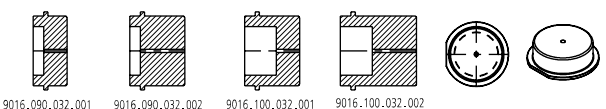
0010 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



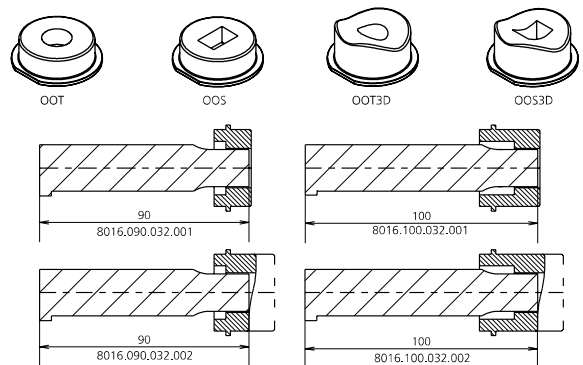
010 (093J_) PUNZONE SAGOMATO / SHAPED PUNCH / GEFORMT SCHNEIDSTEMPEL ISO8020



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



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



013 (8107) SENSORE / SENSOR / SENSOR

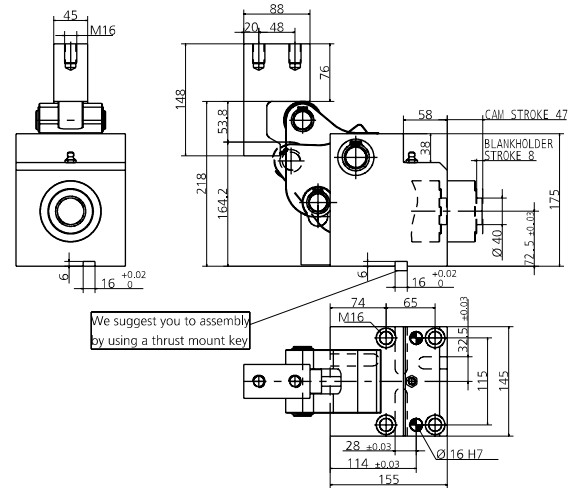
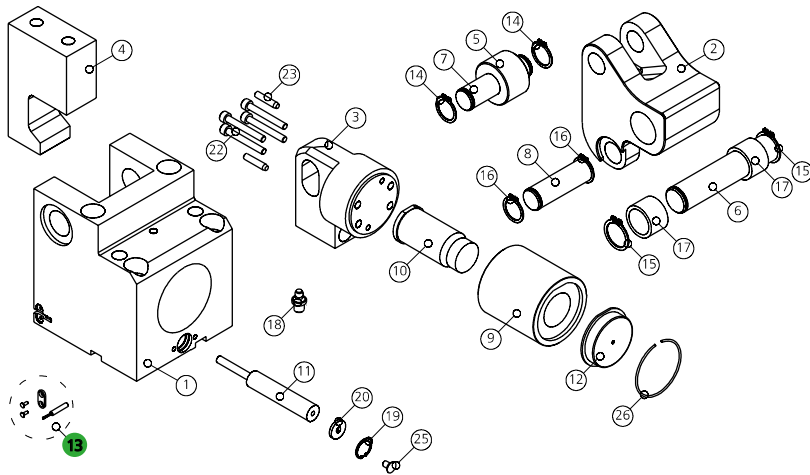


13 PATENT PENDING

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

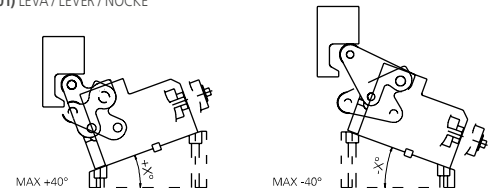
MODEL 0143.1392 INCLINATION +10° BLANKHOLDER 9016/8016._____ OPTION CODE 8001.0043.1390.610

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

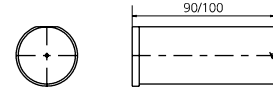


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0043.1880	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8001.0043.1180.000	LEVA / LEVER / NOCKE 0	1
002	8001.0043.1180.610	LEVA / LEVER / NOCKE +0.01 +10	1*OPTION
002	8001.0043.1180.620	LEVA / LEVER / NOCKE +10.01 +20	1*OPTION
002	8001.0043.1180.630	LEVA / LEVER / NOCKE +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 / UNTERLEGSCHIBE	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

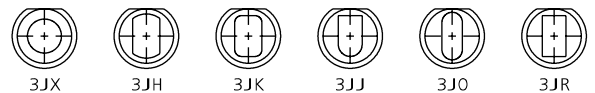
002 (8001) LEVA / LEVER / NOCKE



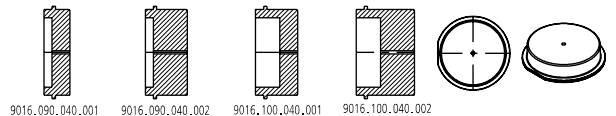
010 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



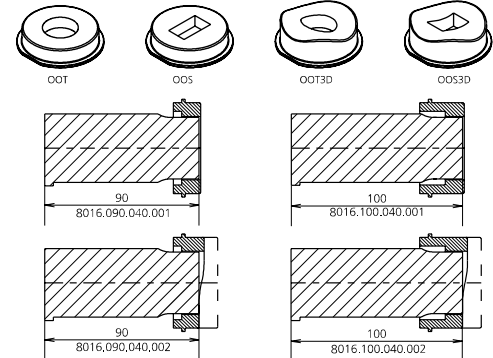
010 (093J_) PUNZONE SAGOMATO / SHAPED PUNCH / GEFORMT SCHNEIDSTEMPEL ISO8020



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



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



013 (8107) SENSORE / SENSOR / SENSOR

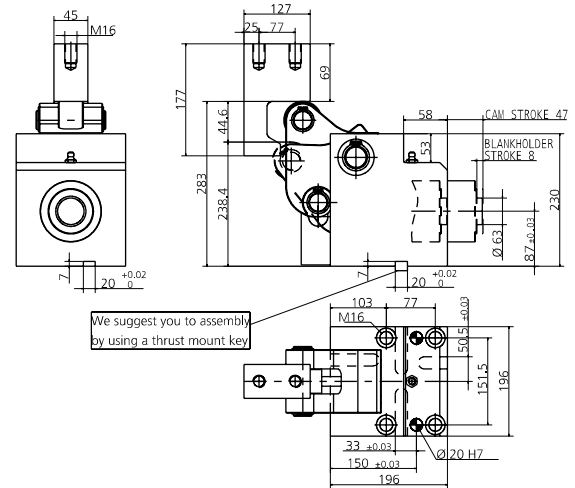
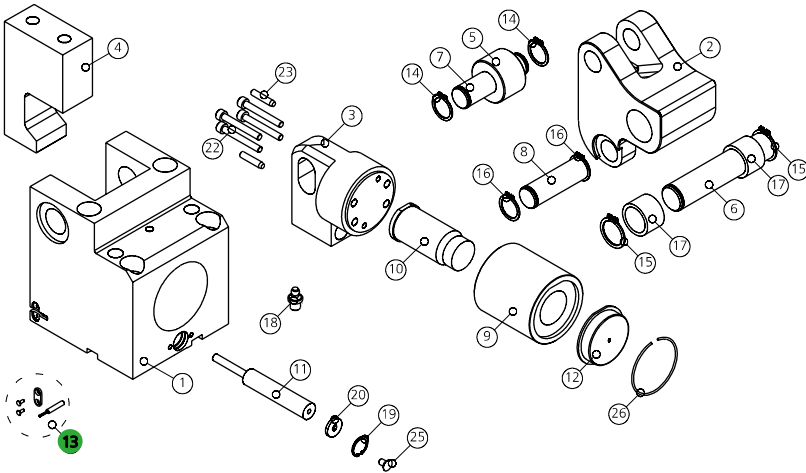


15 PATENT PENDING

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

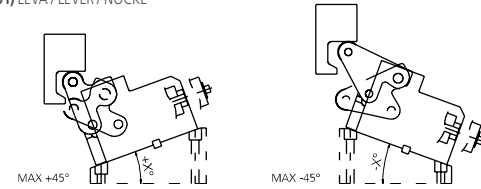
MODEL **0143.1880** INCLINAZIONE **+10°** BLANKHOLDER **9016/8016.** OPTION CODE **8001.0043.1180.610**

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **3300 daN** SFORZO MAX TRANCIO **30000 daN**
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **7250 daN** CUTTING MAX FORCE
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION MAXIMALE SCHNITTKRAFT
 EFFORT MAXI DÉCOUPE

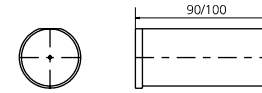


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0043.3300	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8001.0043.3300.000	LEVA / LEVER / NOCKE 0	1
002	8001.0043.3300.615	LEVA / LEVER / NOCKE +0.01 +15	1*OPTION
002	8001.0043.3300.630	LEVA / LEVER / NOCKE +15.01 +30	1*OPTION
002	8001.0043.3300.645	LEVA / LEVER / NOCKE +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	SEGER / SEEGER / SEEGERRING	2
015	9004.1400.001	SEGER / SEEGER / SEEGERRING	2
016	9004.1350.001	SEGER / SEEGER / SEEGERRING	2
017	9005.0120.0040.001	CUSCINETTO / BEARING / LAGER	2
018	9006.003	INGRASSATORE / NIPPLE / SCHMIERUNG	1
019	9004.2220.001	SEGER / SEEGER / SEEGERRING	1
020	8006.0130.0218.065.001	RONDELLA / WASHER / UNTERLEGSCHIBE	1
022	9007.08.045.129.1.4762	VITE / SCREW / SCHRAUBE M8X45	1
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	SEGER / SEEGER / SEEGERRING	1

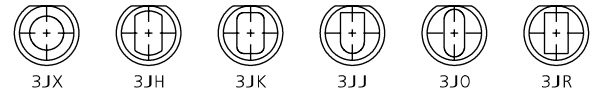
002 (8001) LEVA / LEVER / NOCKE



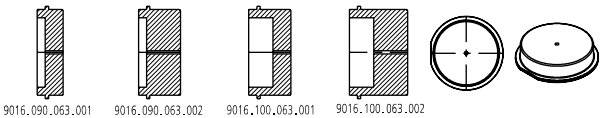
0010 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



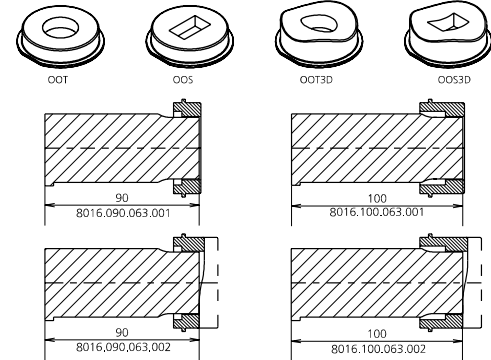
010 (093J_) PUNZONE SAGOMATO / SHAPED PUNCH / GEFORMT SCHNEIDSTEMPEL ISO8020



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



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



013 (8107) SENSORE / SENSOR / SENSOR



13 PATENT PENDING

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

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



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.

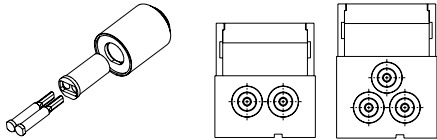


PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE



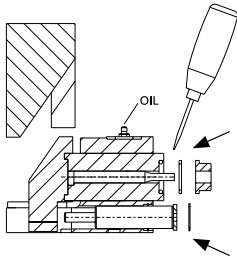
CAM MASE

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



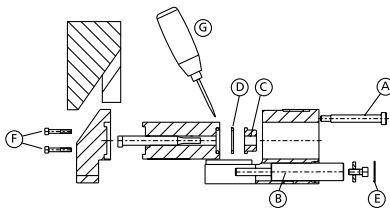
- ⚠ È possibile inserire più punzoni nella stessa unità!
It is possible put more punches in the same unit!
Es ist möglich, setzen mehr Lochstempel in der gleichen Einheit!
Il est possible d'insérer plusieurs poinçons dans la même unité!

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).

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

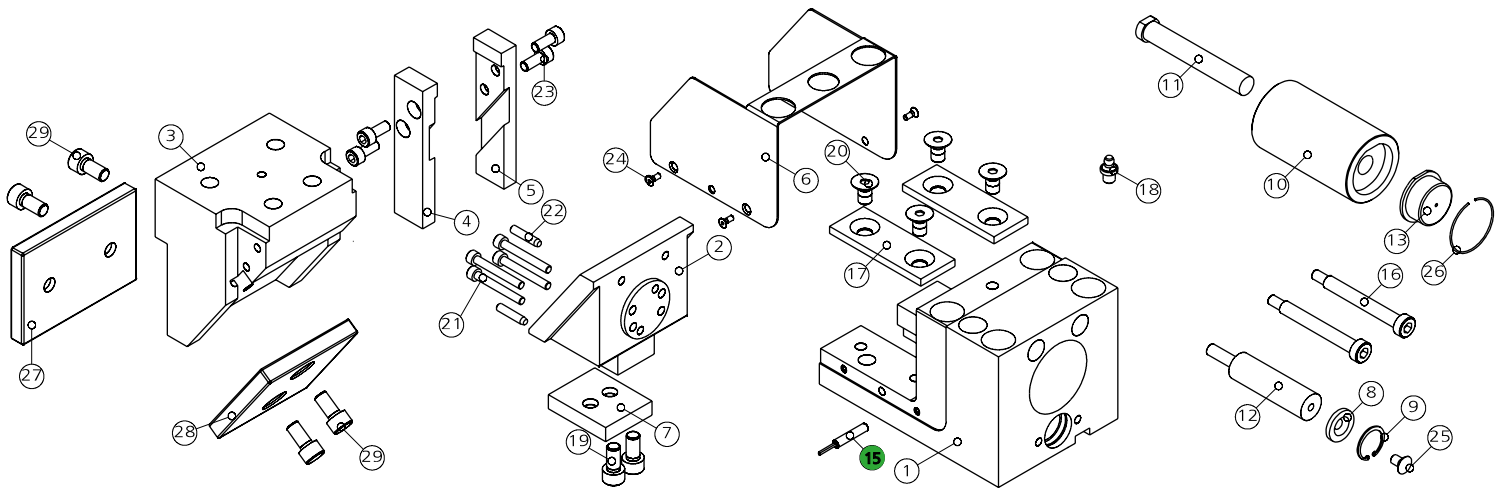
- DE** **Achtung: Wartungs- und Demontearbeiten nur in Grundstellung der Stanzeinheit vornehmen.**
1. Seegering "E" entfernen um den Gasdruckfeder "B" herauszuziehen.
 2. Lagerkeil und spezielle Zylinder herausnehmen um Schrauben "A" herausziehen.
 3. Schrauben "F" lösen um den Lochstempel zu wechseln.
 4. Sprengring "D" herausnehmen um den Abstreifer "C" zu entfernen.
Ein Werkzeug "G" zur Entfernung von Teil "D" ist auf Anfrage lieferbar.
 5. Komponenten prüfen.
 6. Montage in umgekehrter Reihenfolge unter Verwendung von Molybdändisulfidfett (MoS₂). Die Verwendung dieses Fett wird durch Newstark empfohlen.
 7. 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 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 **505 daN**
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1110 daN**
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

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

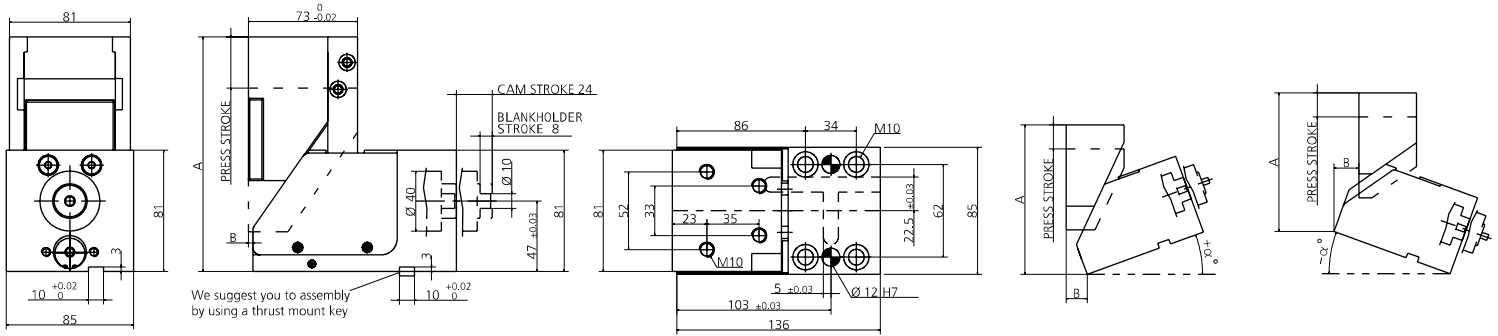


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0047.0505	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8111.0047.0005.00.001	SLITTA / SLIDER / LAGERKEIL 0°	1*CHOOSE
002	8111.0047.0005.05.001	SLITTA / SLIDER / LAGERKEIL +5°	1*CHOOSE
002	8111.0047.0005.10.001	SLITTA / SLIDER / LAGERKEIL +10°	1*CHOOSE
002	8111.0047.0005.15.001	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 AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 0°	1*CHOOSE
004	8115.0047.0005.05.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -5°	1*CHOOSE
004	8115.0047.0005.10.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -10°	1*CHOOSE
004	8115.0047.0005.15.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -15°	1*CHOOSE
005	8115.0047.0005.00.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 0°	1*CHOOSE
005	8115.0047.0005.05.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -5°	1*CHOOSE
005	8115.0047.0005.10.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -10°	1*CHOOSE
005	8115.0047.0005.15.002	STAFFA DI AGGANCIAMENTO / 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 / UNTERLEGSCHIBE	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

POS.	CODE	DESCRIPTION	Q.TY
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 COLLETO / 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

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

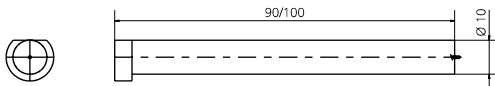
SFORZO MAX TRANCIO **4500 daN**
 CUTTING MAX FORCE
 MAXIMALE SCHNITTKRAFT
 EFFORT MAXI DÉCOUPE



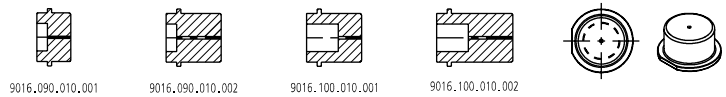
α°	PRESS STROKE	A	B
0°	34.1	156.67	2.99
+5°	32.05	162.19	8.51
+10°	29.6	163.55	16.62
+15°	26.9	166	23.69
-5°	30.6	153.75	0.99
-10°	27.8	144.67	8.01
-15°	25.65	136.67	14.01

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

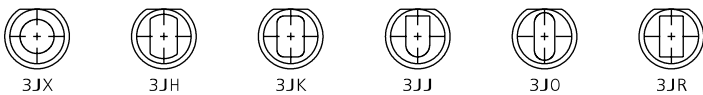
0011 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



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



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



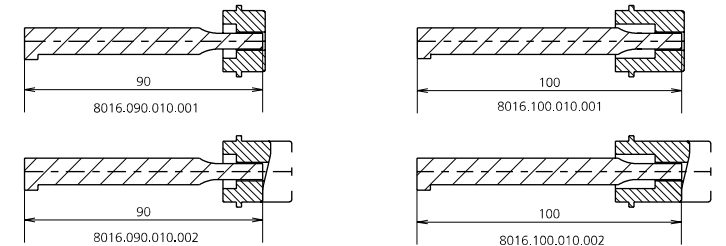
013 (8016) PREMILAMIERA SAGOMATO / SHAPED BLANKHOLDER / GEFORMT BLECHHALTER (OPTION)



015 (9003) SENSORE / SENSOR / SENSOR



15 PATENT PENDING



0147.6953 - CAM MASE695-13

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

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

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

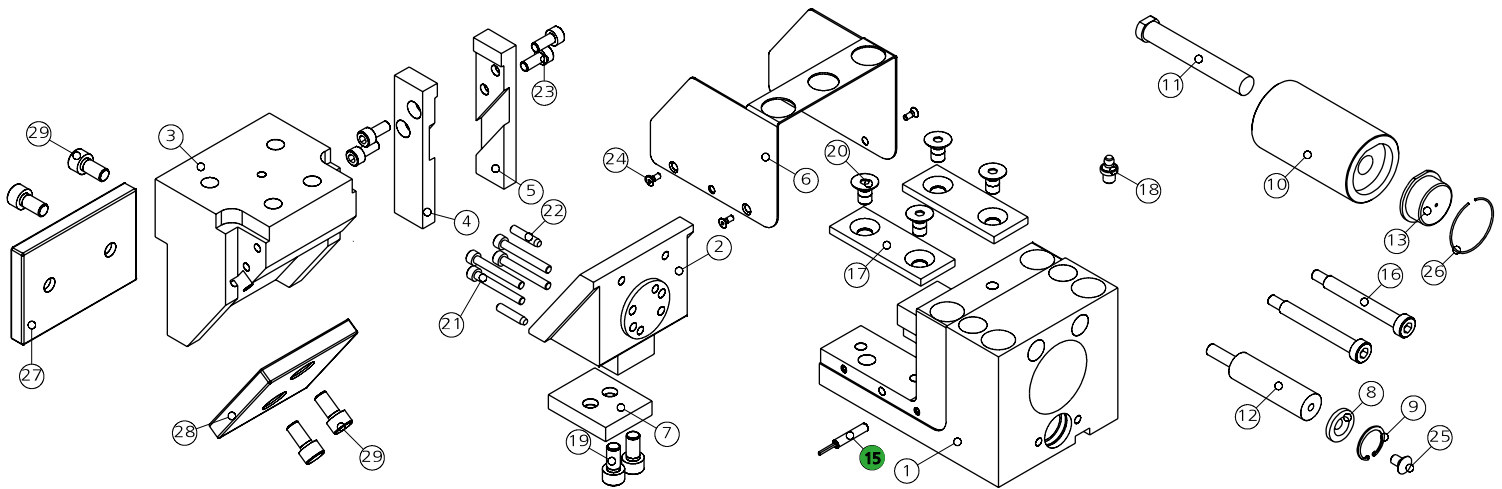
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **6000 daN**

CUTTING MAX FORCE

MAXIMALE SCHNITTKRAFT

EFFORT MAXI DÉCOUPE

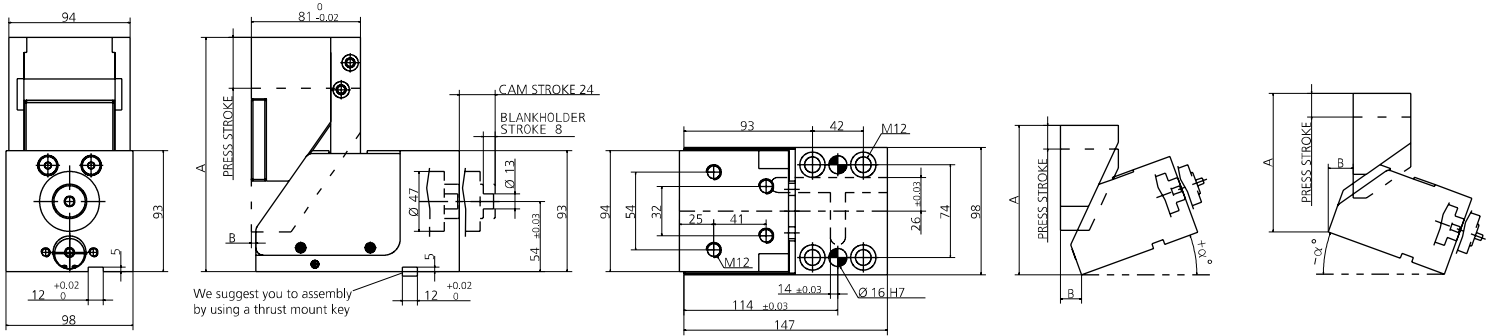


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0047.0695	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8111.0047.0006.00.001	SLITTA / SLIDER / LAGERKEIL 0°	1*CHOOSE
002	8111.0047.0006.05.001	SLITTA / SLIDER / LAGERKEIL +5°	1*CHOOSE
002	8111.0047.0006.10.001	SLITTA / SLIDER / LAGERKEIL +10°	1*CHOOSE
002	8111.0047.0006.15.001	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 AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 0°	1*CHOOSE
004	8115.0047.0006.05.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -5°	1*CHOOSE
004	8115.0047.0006.10.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -10°	1*CHOOSE
004	8115.0047.0006.15.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -15°	1*CHOOSE
005	8115.0047.0006.00.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 0°	1*CHOOSE
005	8115.0047.0006.05.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -5°	1*CHOOSE
005	8115.0047.0006.10.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -10°	1*CHOOSE
005	8115.0047.0006.15.002	STAFFA DI AGGANCIAMENTO / 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 / UNTERLEGSCHIBE	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

POS.	CODE	DESCRIPTION	Q.TY
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 COLLETO / 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

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

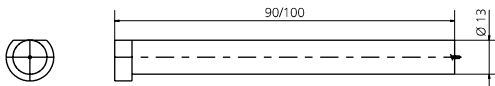
SFORZO MAX TRANCIO **6000 daN**
 CUTTING MAX FORCE
 MAXIMALE SCHNITTKRAFT
 EFFORT MAXI DÉCOUPE



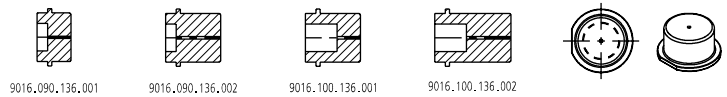
α°	PRESS STROKE	A	B
0°	34.1	172.17	3.82
+5°	32.05	174.98	12.37
+10°	29.6	173.74	20.09
+15°	26.9	171.99	31.29
-5°	30.6	170.17	1.82
-10°	27.8	158.17	14.68
-15°	25.65	151.75	16.68

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

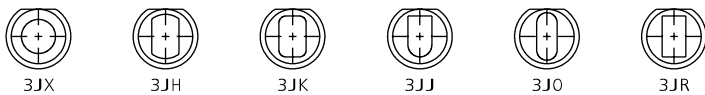
0011 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



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



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



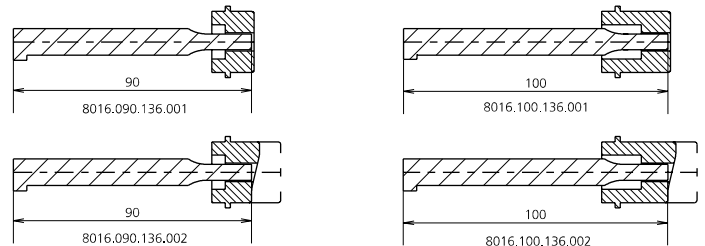
013 (8016) PREMILAMIERA SAGOMATO / SHAPED BLANKHOLDER / GEFORMT BLECHHALTER (OPTION)



015 (9003) SENSORE / SENSOR / SENSOR



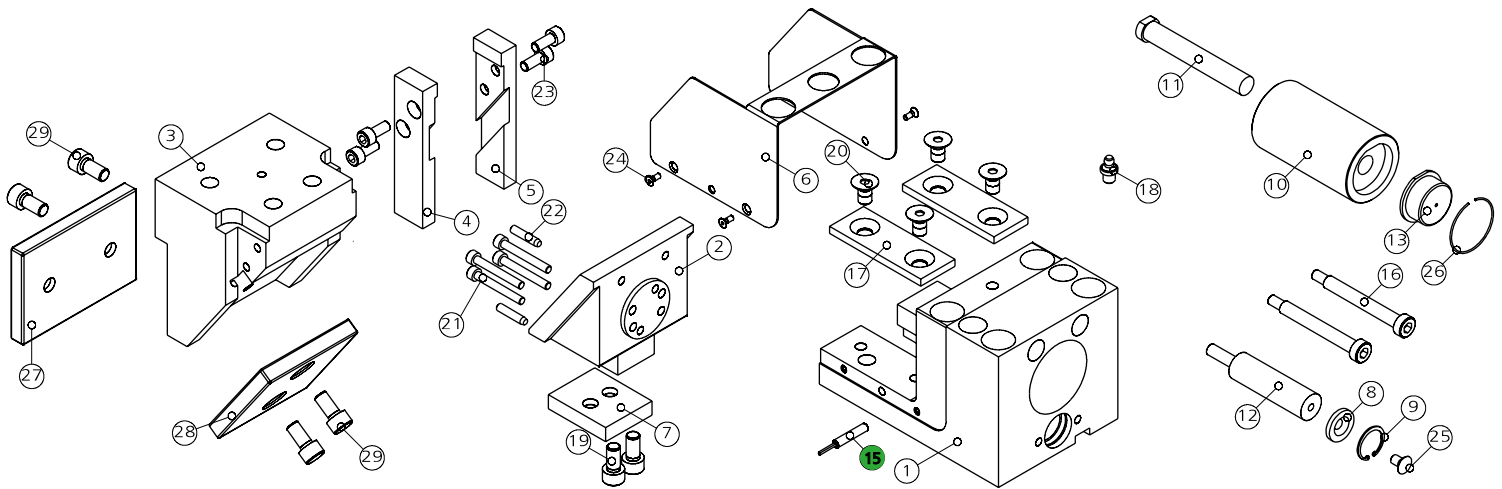
15 PATENT PENDING



0147.6956 - CAM MASE695-16

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

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

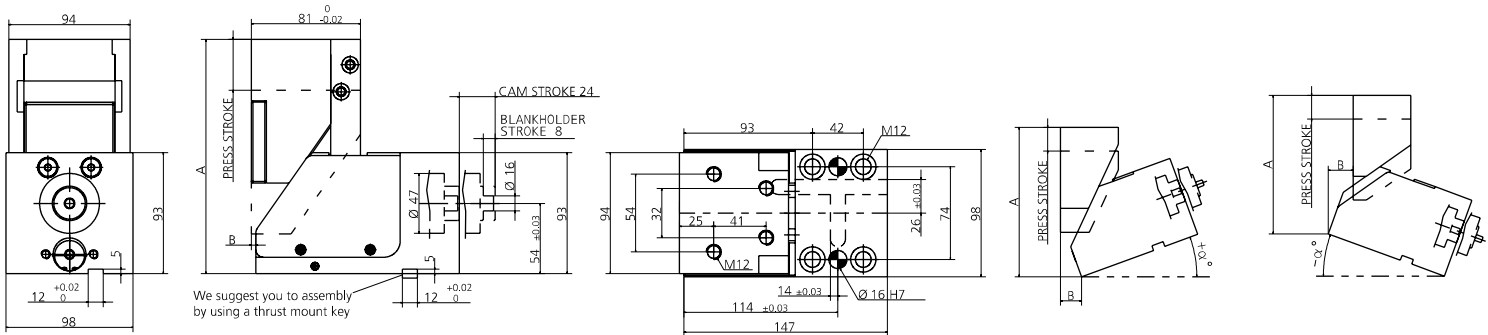


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0047.0695	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8111.0047.0006.00.001	SLITTA / SLIDER / LAGERKEIL 0°	1*CHOOSE
002	8111.0047.0006.05.001	SLITTA / SLIDER / LAGERKEIL +5°	1*CHOOSE
002	8111.0047.0006.10.001	SLITTA / SLIDER / LAGERKEIL +10°	1*CHOOSE
002	8111.0047.0006.15.001	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 AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 0°	1*CHOOSE
004	8115.0047.0006.05.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -5°	1*CHOOSE
004	8115.0047.0006.10.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -10°	1*CHOOSE
004	8115.0047.0006.15.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -15°	1*CHOOSE
005	8115.0047.0006.00.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 0°	1*CHOOSE
005	8115.0047.0006.05.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -5°	1*CHOOSE
005	8115.0047.0006.10.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -10°	1*CHOOSE
005	8115.0047.0006.15.002	STAFFA DI AGGANCIAMENTO / 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 / UNTERLEGSCHIBE	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

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

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

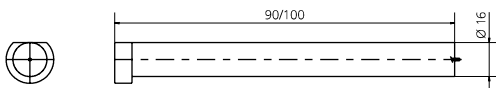


We suggest you to assembly by using a thrust mount key

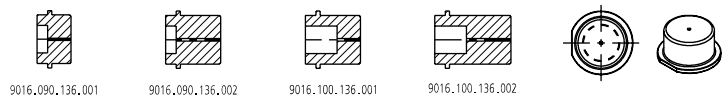
α°	PRESS STROKE	A	B
0°	34.1	172.17	3.82
+5°	32.05	174.98	12.37
+10°	29.6	173.74	20.09
+15°	26.9	171.99	31.29
-5°	30.6	170.17	1.82
-10°	27.8	158.17	14.68
-15°	25.65	151.75	16.68

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

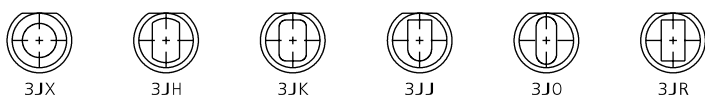
0011 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



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



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



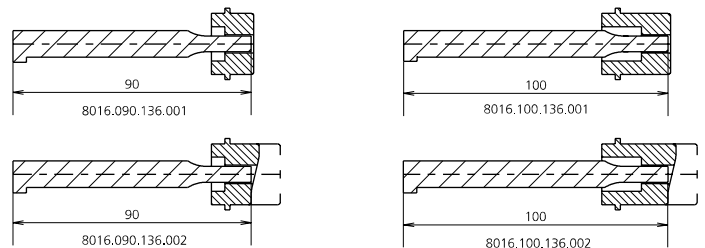
013 (8016) PREMILAMIERA SAGOMATO / SHAPED BLANKHOLDER / GEFORMT BLECHHALTER (OPTION)



015 (9003) SENSORE / SENSOR / SENSOR



15 PATENT PENDING



0147.1160 - CAM MASE1160-20

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE

1160 daN

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION

2550 daN

ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

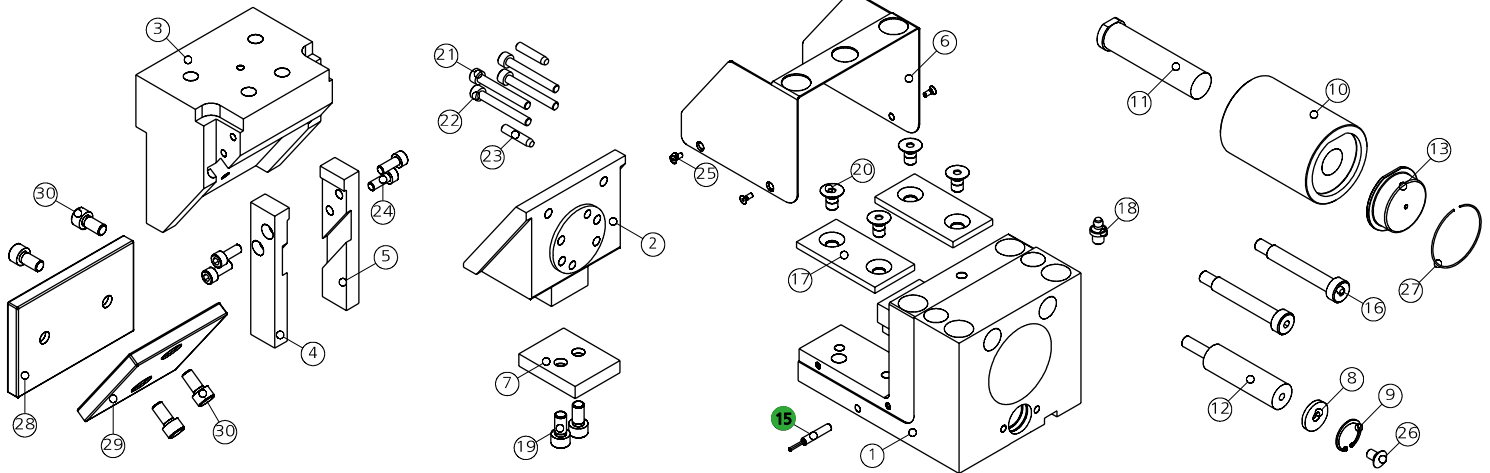
SFORZO MAX TRANCIO

9000 daN

CUTTING MAX FORCE

MAXIMALE SCHNITTKRAFT

EFFORT MAXI DÉCOUPE

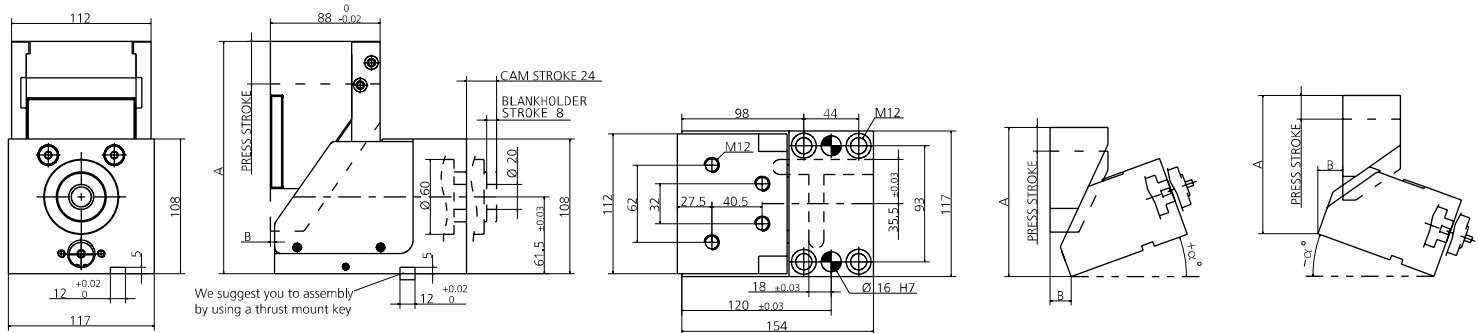


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0047.1160	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8111.0047.0011.00.001	SLITTA / SLIDER / LAGERKEIL 0°	1*CHOOSE
002	8111.0047.0011.05.001	SLITTA / SLIDER / LAGERKEIL +5°	1*CHOOSE
002	8111.0047.0011.10.001	SLITTA / SLIDER / LAGERKEIL +10°	1*CHOOSE
002	8111.0047.0011.15.001	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 AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 0°	1*CHOOSE
004	8115.0047.0011.05.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -5°	1*CHOOSE
004	8115.0047.0011.10.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -10°	1*CHOOSE
004	8115.0047.0011.15.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -15°	1*CHOOSE
005	8115.0047.0011.00.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 0°	1*CHOOSE
005	8115.0047.0011.05.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -5°	1*CHOOSE
005	8115.0047.0011.10.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -10°	1*CHOOSE
005	8115.0047.0011.15.002	STAFFA DI AGGANCIAMENTO / 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 / UNTERLEGSCHIBE	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 COLLETTA / 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

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

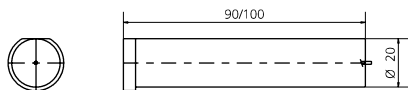
SFORZO MAX TRANCIO **9000 daN**
 CUTTING MAX FORCE
 MAXIMALE SCHNITTKRAFT
 EFFORT MAXI DÉCOUPE



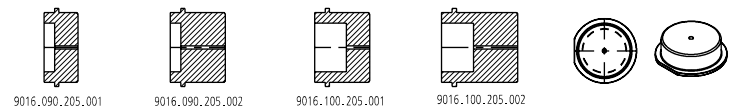
α°	PRESS STROKE	A	B
0°	34.1	186.18	3.38
+5°	32.05	189.33	13.46
+10°	29.6	186.77	23.52
+15°	26.9	186.43	34.43
-5°	30.6	183.18	6.62
-10°	27.8	182.18	13.12
-15°	25.65	175.18	21.12

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

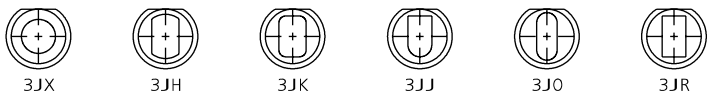
0011 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



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



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



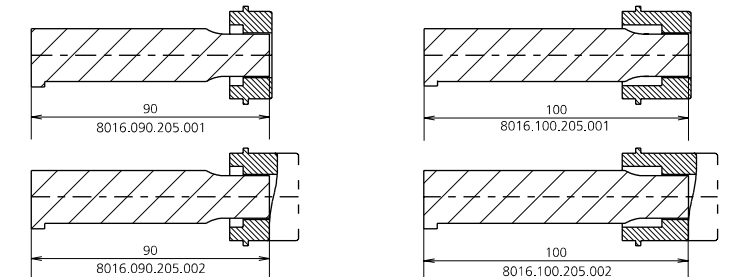
013 (8016) PREMILAMIERA SAGOMATO / SHAPED BLANKHOLDER / GEFORMT BLECHHALTER (OPTION)



015 (9003) SENSORE / SENSOR / SENSOR



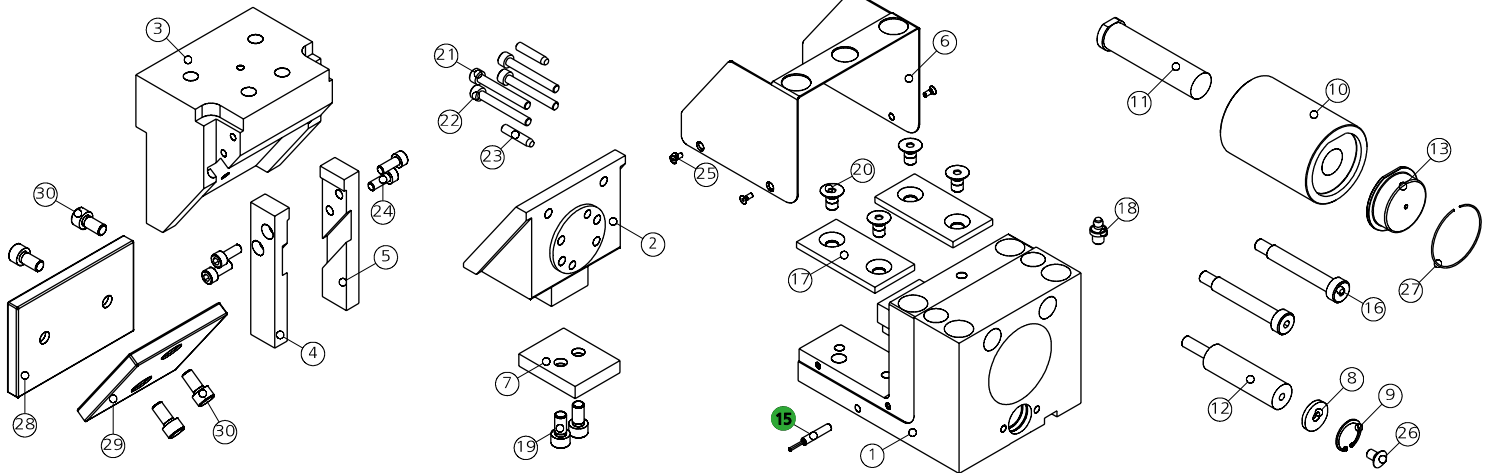
15 PATENT PENDING



0147.1165 - CAM MASE1160-25

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

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

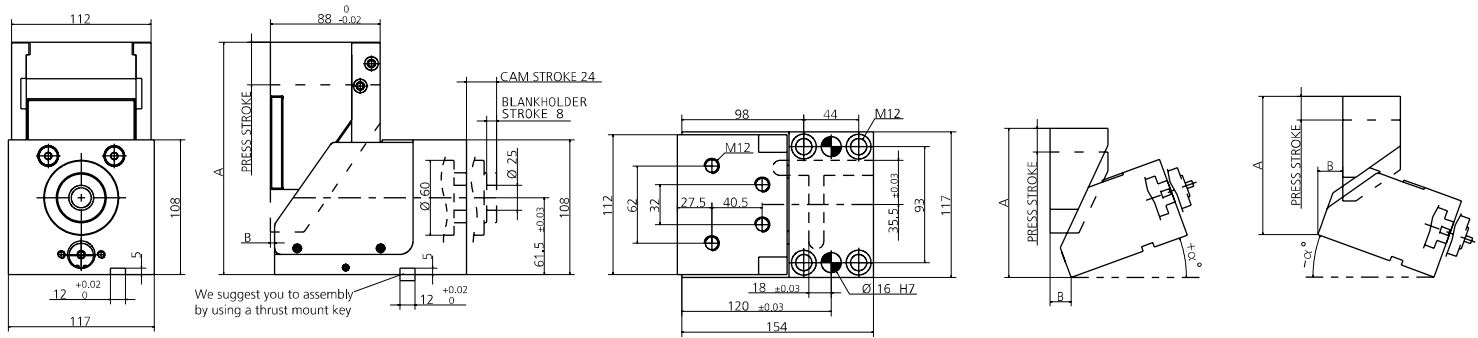


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0047.1160	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8111.0047.0011.00.001	SLITTA / SLIDER / LAGERKEIL 0°	1*CHOOSE
002	8111.0047.0011.05.001	SLITTA / SLIDER / LAGERKEIL +5°	1*CHOOSE
002	8111.0047.0011.10.001	SLITTA / SLIDER / LAGERKEIL +10°	1*CHOOSE
002	8111.0047.0011.15.001	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 AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 0°	1*CHOOSE
004	8115.0047.0011.05.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -5°	1*CHOOSE
004	8115.0047.0011.10.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -10°	1*CHOOSE
004	8115.0047.0011.15.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -15°	1*CHOOSE
005	8115.0047.0011.00.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 0°	1*CHOOSE
005	8115.0047.0011.05.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -5°	1*CHOOSE
005	8115.0047.0011.10.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -10°	1*CHOOSE
005	8115.0047.0011.15.002	STAFFA DI AGGANCIAMENTO / 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 / UNTERLEGSCHIBE	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

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

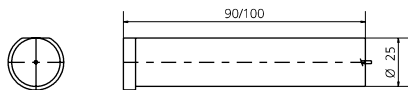
SFORZO MAX TRANCIO **9000 daN**
 CUTTING MAX FORCE
 MAXIMALE SCHNITTKRAFT
 EFFORT MAXI DÉCOUPE



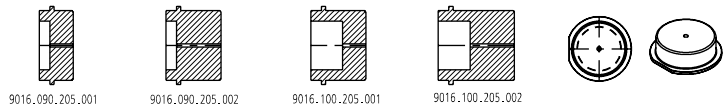
α°	PRESS STROKE	A	B
0°	34.1	186.18	3.38
+5°	32.05	189.33	13.46
+10°	29.6	186.77	23.52
+15°	26.9	186.43	34.43
-5°	30.6	183.18	6.62
-10°	27.8	182.18	13.12
-15°	25.65	175.18	21.12

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

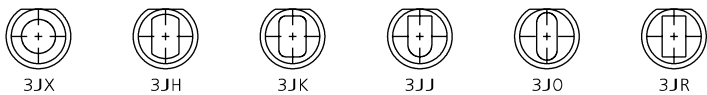
0011 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



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



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



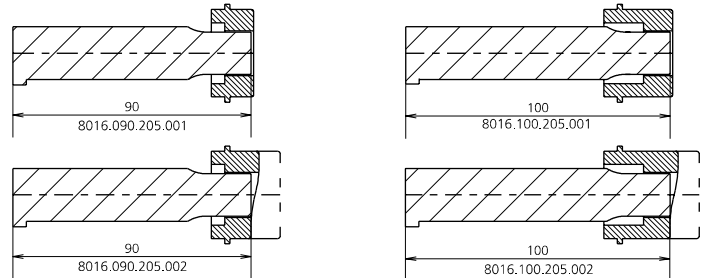
013 (8016) PREMILAMIERA SAGOMATO / SHAPED BLANKHOLDER / GEFORMT BLECHHALTER (OPTION)



015 (9003) SENSORE / SENSOR / SENSOR



15 PATENT PENDING



0147.1392 - CAM MASE1390-32

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

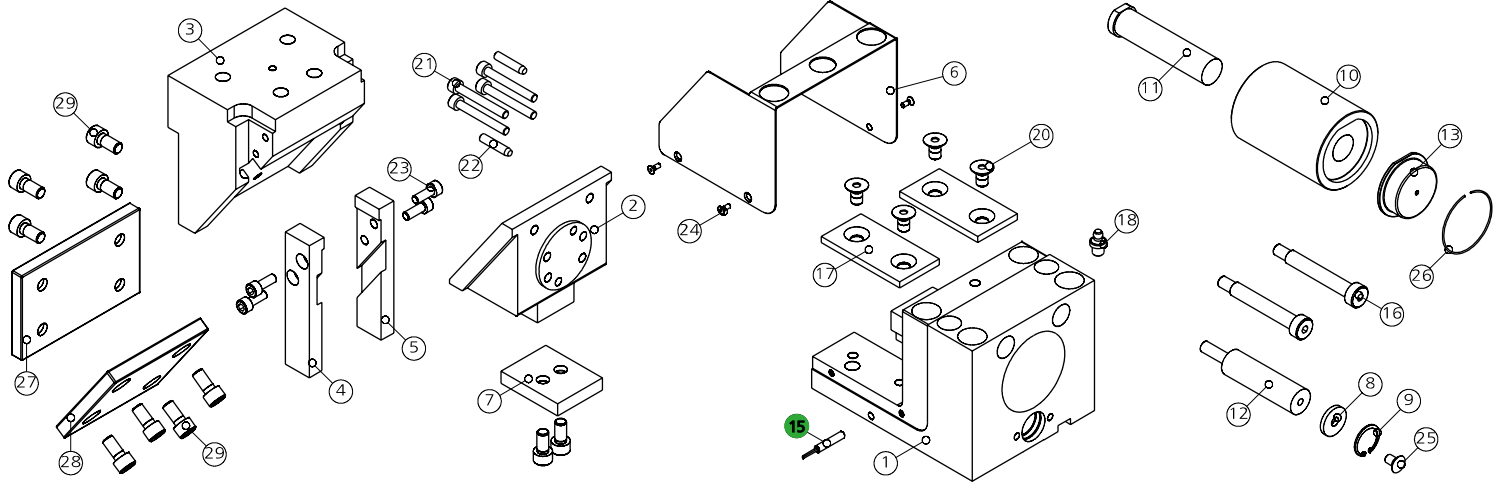
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

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

ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **12000 daN**

CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE

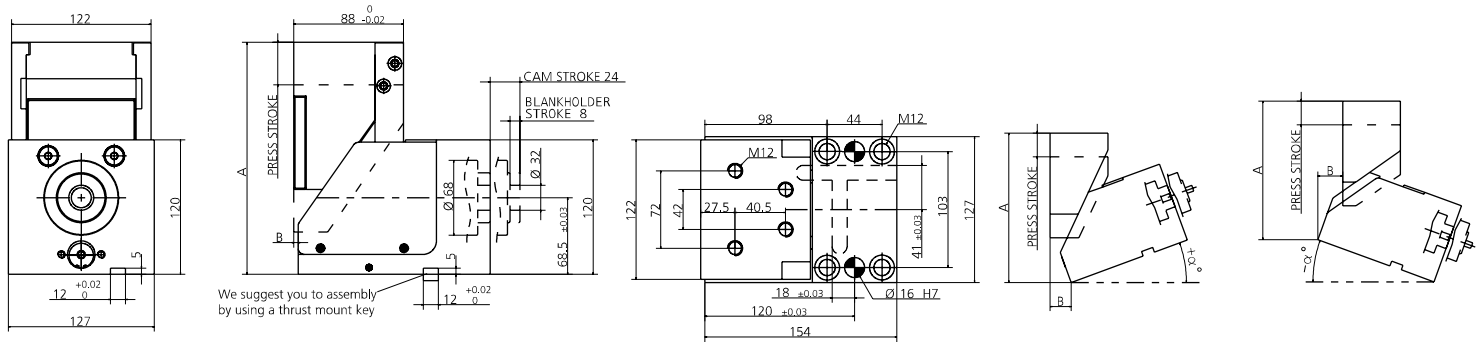


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0047.1390	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8111.0047.0013.00.001	SLITTA / SLIDER / LAGERKEIL 0°	1*CHOOSE
002	8111.0047.0013.05.001	SLITTA / SLIDER / LAGERKEIL +5°	1*CHOOSE
002	8111.0047.0013.10.001	SLITTA / SLIDER / LAGERKEIL +10°	1*CHOOSE
002	8111.0047.0013.15.001	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 AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 0°	1*CHOOSE
004	8115.0047.0013.05.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -5°	1*CHOOSE
004	8115.0047.0013.10.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -10°	1*CHOOSE
004	8115.0047.0013.15.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -15°	1*CHOOSE
005	8115.0047.0013.00.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 0°	1*CHOOSE
005	8115.0047.0013.05.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -5°	1*CHOOSE
005	8115.0047.0013.10.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -10°	1*CHOOSE
005	8115.0047.0013.15.002	STAFFA DI AGGANCIAMENTO / 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 / UNTERLEGSCHIBE	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 COLLETO / 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

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

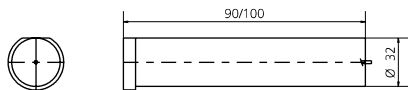
SFORZO MAX TRANCIO **12000 daN**
 CUTTING MAX FORCE
 MAXIMALE SCHNITTKRAFT
 EFFORT MAXI DÉCOUPE



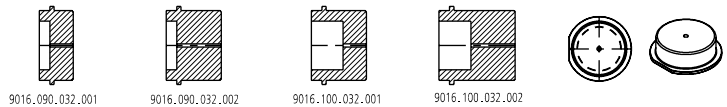
α°	PRESS STROKE	A	B
0°	34.1	190.78	3
+5°	32.05	188.73	14.59
+10°	29.6	190.4	25.84
+15°	26.9	187.11	37.75
-5°	30.6	186.78	7
-10°	27.8	183.28	14
-15°	25.65	177.28	12.5

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

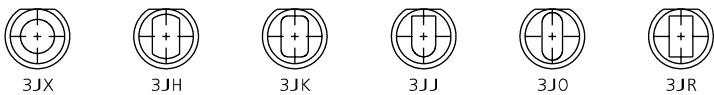
0011 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



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



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



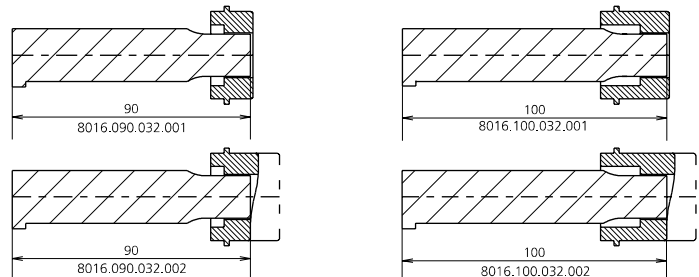
013 (8016) PREMILAMIERA SAGOMATO / SHAPED BLANKHOLDER / GEFORMT BLECHHALTER (OPTION)



015 (9003) SENSORE / SENSOR / SENSOR



15 PATENT PENDING



0147.1880 - CAM MASE1880-40

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

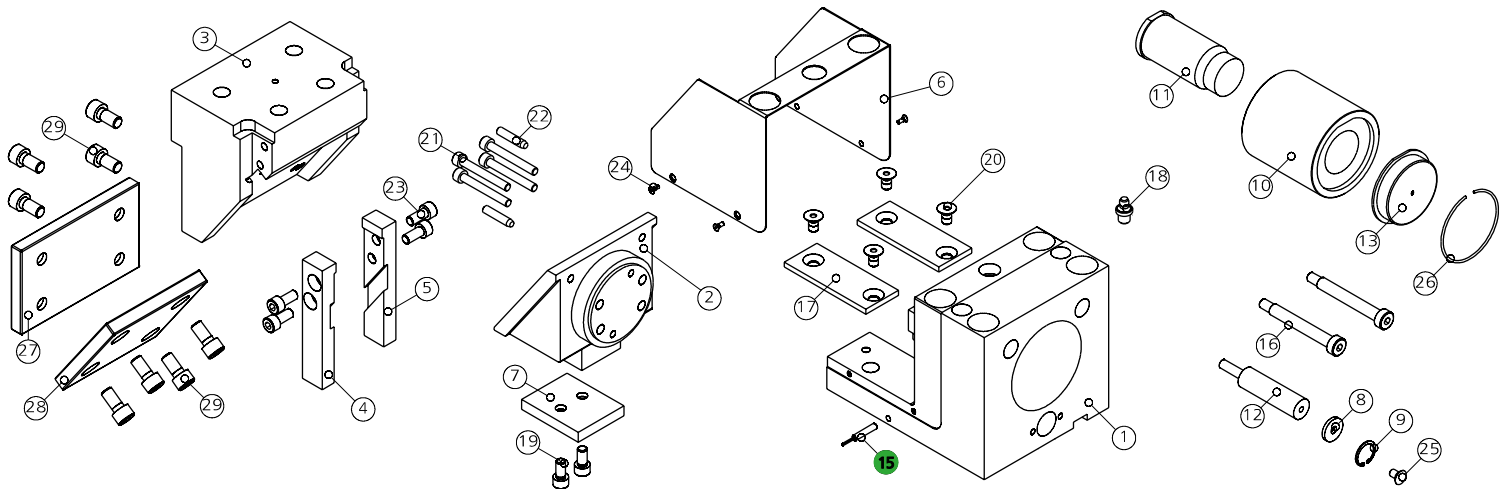
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

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

ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **17000 daN**

CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE

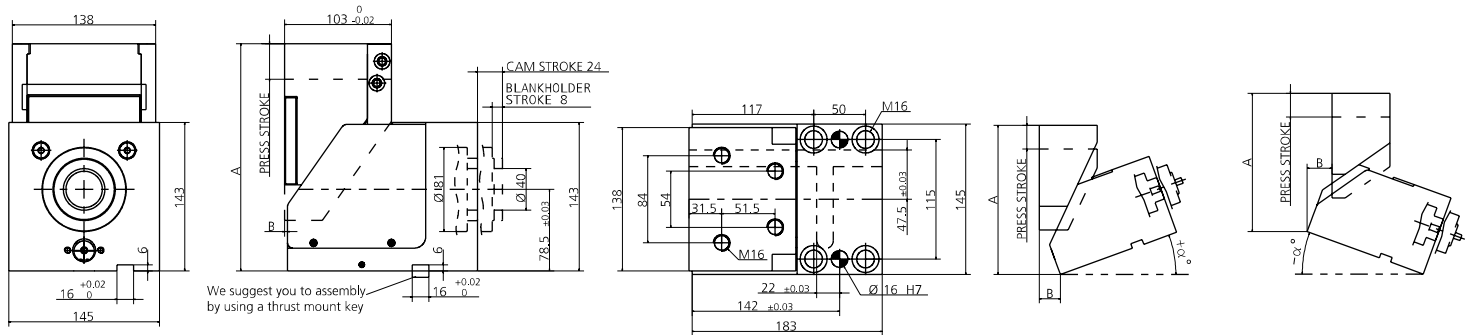


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0047.1880	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8111.0047.0018.00.001	SLITTA / SLIDER / LAGERKEIL 0°	1*CHOOSE
002	8111.0047.0018.05.001	SLITTA / SLIDER / LAGERKEIL +5°	1*CHOOSE
002	8111.0047.0018.10.001	SLITTA / SLIDER / LAGERKEIL +10°	1*CHOOSE
002	8111.0047.0018.15.001	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 AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 0°	1*CHOOSE
004	8115.0047.0018.05.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -5°	1*CHOOSE
004	8115.0047.0018.10.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -10°	1*CHOOSE
004	8115.0047.0018.15.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -15°	1*CHOOSE
005	8115.0047.0018.00.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 0°	1*CHOOSE
005	8115.0047.0018.05.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -5°	1*CHOOSE
005	8115.0047.0018.10.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -10°	1*CHOOSE
005	8115.0047.0018.15.002	STAFFA DI AGGANCIAMENTO / 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 / UNTERLEGSCHIBE	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 COLLETO / 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

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **1880 daN**
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **4100 daN**
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION

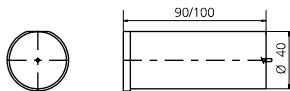
SFORZO MAX TRANCIO **17000 daN**
 CUTTING MAX FORCE
 MAXIMALE SCHNITTKRAFT
 EFFORT MAXI DÉCOUPE



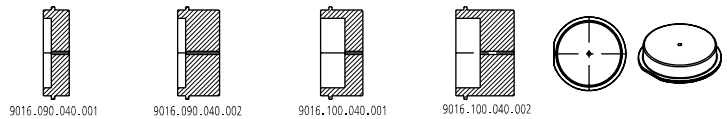
α°	PRESS STROKE	A	B
0°	34.1	218.78	3
+5°	32.05	219.02	16.7
+10°	29.6	220.79	30.28
+15°	26.9	218.59	44.24
-5°	30.6	212.78	6.5
-10°	27.8	206.78	15.5
-15°	25.65	199.78	17.5

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

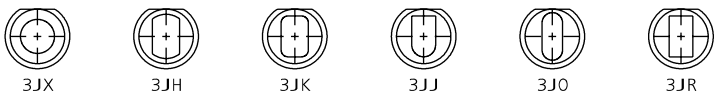
0011 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



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



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



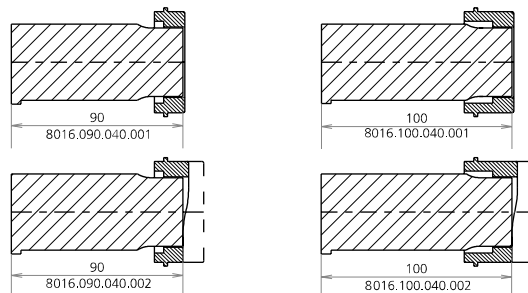
013 (8016) PREMILAMIERA SAGOMATO / SHAPED BLANKHOLDER / GEFORMT BLECHHALTER (OPTION)



015 (9003) SENSORE / SENSOR / SENSOR



15 PATENT PENDING



0147.3303 - CAM MASE3300-63

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

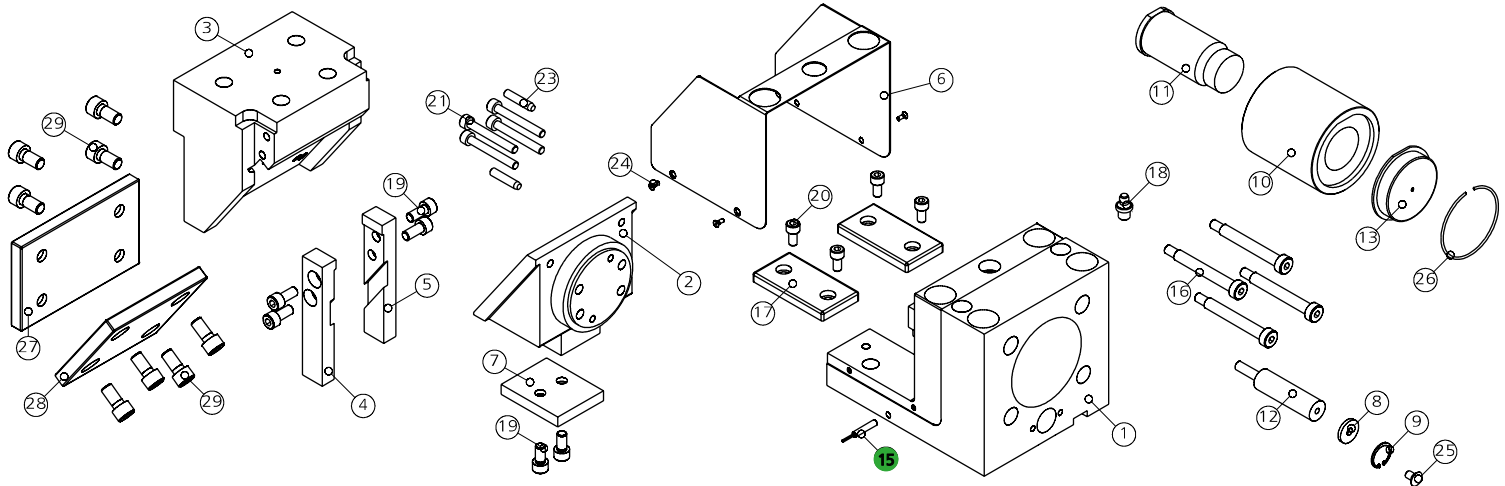
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

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

ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **30000 daN**

CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE

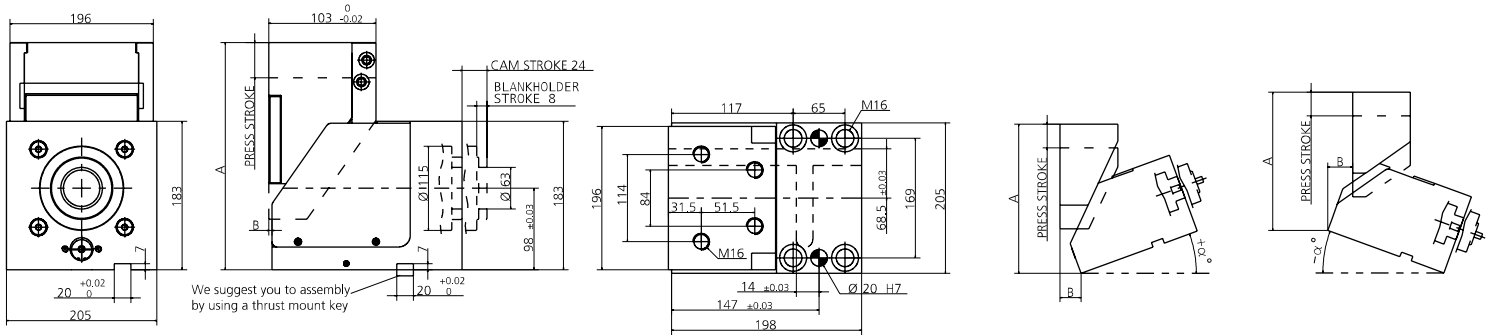


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0047.3300	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8111.0047.0033.00.001	SLITTA / SLIDER / LAGERKEIL 0°	1*CHOOSE
002	8111.0047.0033.05.001	SLITTA / SLIDER / LAGERKEIL +5°	1*CHOOSE
002	8111.0047.0033.10.001	SLITTA / SLIDER / LAGERKEIL +10°	1*CHOOSE
002	8111.0047.0033.15.001	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 AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 0°	1*CHOOSE
004	8115.0047.0033.10.003	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG +10°	1*CHOOSE
004	8115.0047.0033.05.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -5°	1*CHOOSE
004	8115.0047.0033.10.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -10°	1*CHOOSE
004	8115.0047.0033.15.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -15°	1*CHOOSE
005	8115.0047.0033.00.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 0°	1*CHOOSE
005	8115.0047.0033.10.004	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG +10°	1*CHOOSE
005	8115.0047.0033.05.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -5°	1*CHOOSE
005	8115.0047.0033.10.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG -10°	1*CHOOSE
005	8115.0047.0033.15.002	STAFFA DI AGGANCIAMENTO / 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 COLLETO / 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

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

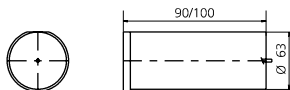
SFORZO MAX TRANCIO **30000 daN**
 CUTTING MAX FORCE
 MAXIMALE SCHNITTKRAFT
 EFFORT MAXI DÉCOUPE



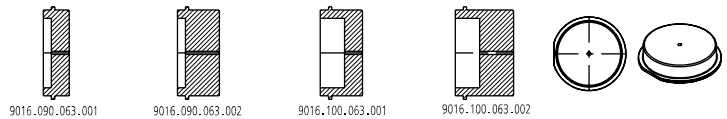
α°	PRESS STROKE	A	B
0°	34.1	248.78	3
+5°	32.05	247.2	20.75
+10°	29.6	257.18	37.51
+15°	26.9	257.46	54.25
-5°	30.6	242.78	8
-10°	27.8	236.78	9
-15°	25.65	229.78	22

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

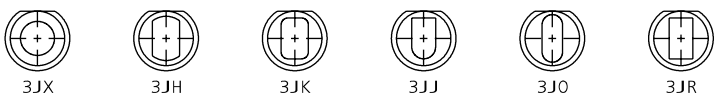
0011 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



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



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



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



015 (9003) SENSORE / SENSOR / SENSOR



15 PATENT PENDING

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

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



CAM SMEG

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

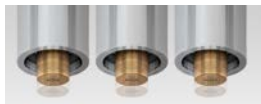
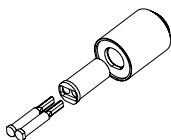


PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE



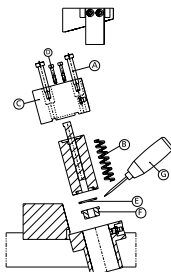
CAM SMEG

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



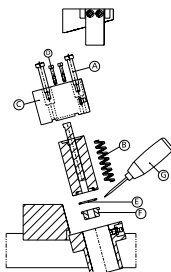
- !** È possibile inserire più punzoni nella stessa unità!
It is possible put more punches in the same unit!
Es ist möglich, setzen mehr Lochstempel in der gleichen Einheit!
Il est possible d'insérer plusieurs poinçons dans la même unité!

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



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

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



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

- IT** **Attenzione:** Assicurarsi che la camma sia nella sua posizione normale prima di eseguire qualsiasi lavoro di smontaggio o manutenzione.
1. Togliere il portapunzone "C" e le molle "B" rimuovendo le viti a colletto "A".
 2. Togliere viti "D" per controllare il punzone.
 3. Rimuovere il seeger "E" togliendo lo stripper "F".
L'utensile "G" per rimuovere "E" è a disposizione su richiesta.
 4. Eseguire le verifiche.
 5. Rimontare con cura lubrificando con grasso bisolfuro di Molibdeno (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 Demontearbeiten nur in Grundstellung der Stanzeinheit vornehmen.
1. Trägerplatte "C" und Feder "B" entfernen um die Ansatzschraube "A" herauszuziehen.
 2. Schrauben "D" lösen um den Lochstempel zu wechseln.
 3. Sprengring "E" herausnehmen um den Abstreifer "F" zu entfernen.
Ein Werkzeug "G" zur Entfernung von Teil "E" ist auf Anfrage lieferbar.
 4. Komponenten prüfen.
 5. Montage in umgekehrter Reihenfolge unter Verwendung von Molybdändisulfidfett (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 reassembly or maintenance work only when the cam unit is in its basic position.
1. Take off the punch holder "C" and the springs "B" by removing the shoulder screws "A" as shown.
 2. Take off the screws "D" to change the punch.
 3. Take off the seeger "E" by removing stripper "F".
The tool "G" to remove "E" is available on request.
 4. Check the components.
 5. Reassemble carefully using grease with disulfide molybdeno (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 colerette "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 **505 daN**

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1100 daN**

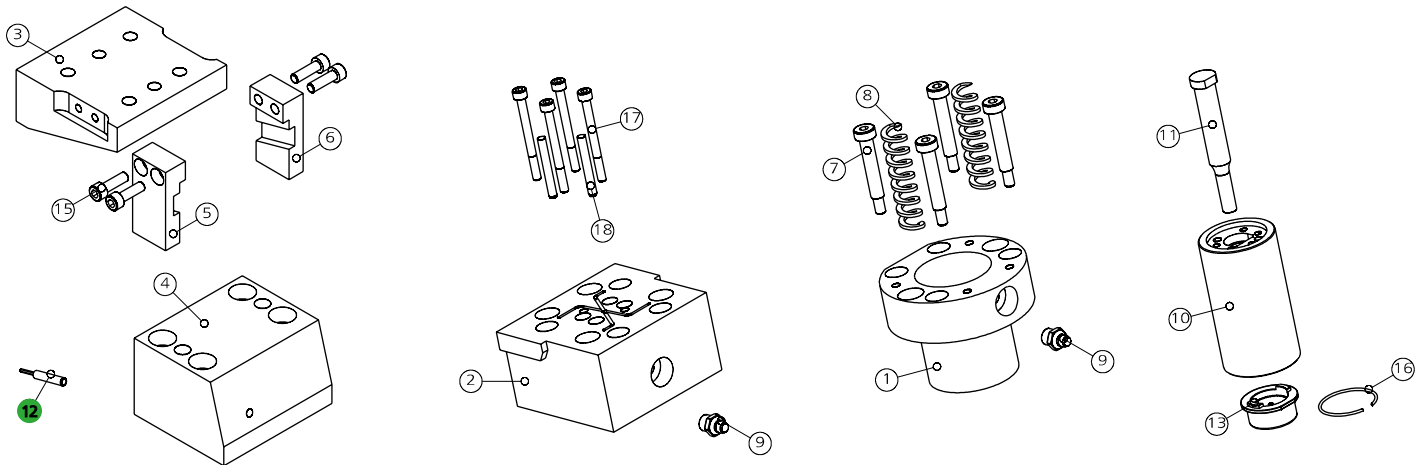
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **4500 daN**

CUTTING MAX FORCE

MAXIMALE SCHNITTKRAFT

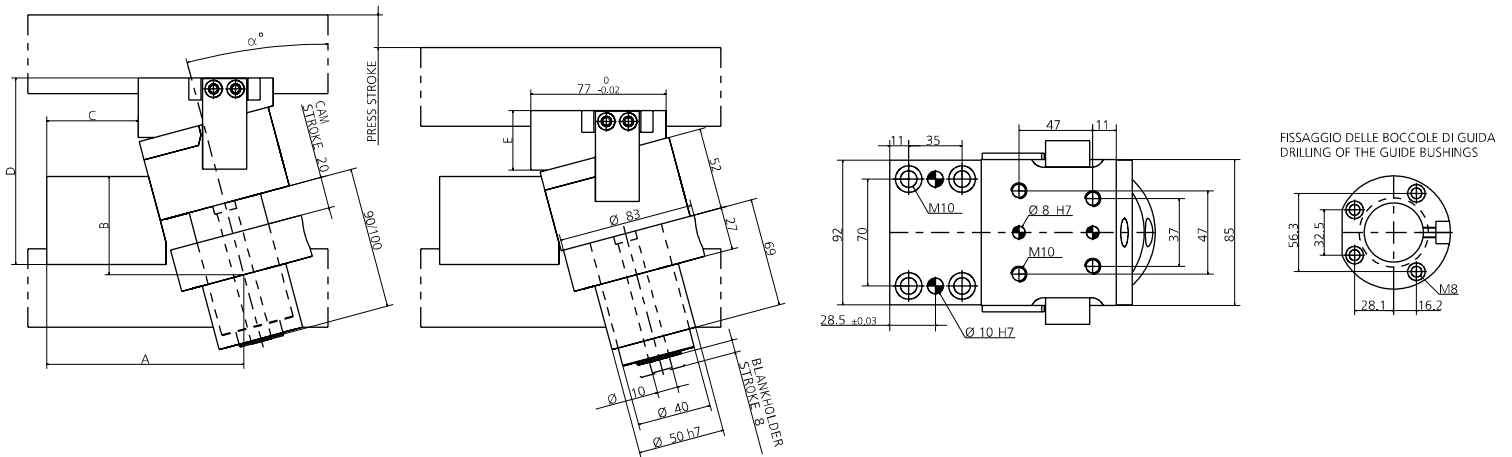
EFFORT MAXI DÉCOUPE



POS.	CODE	DESCRIPTION	Q.TY
001	8013.0690.0830.400.001	BOCCOLA DI GUIDA / GUIDE BUSHINGS / FÜHRUNGSBUCHSE	1
002	8014.0048.0505	PORTA PUNZONE / PUNCHES 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 AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°	1*CHOOSE
005	8115.4851.0504.10.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10°	1*CHOOSE
005	8115.4851.0504.15.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15°	1*CHOOSE
005	8115.4851.0504.20.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20°	1*CHOOSE
005	8115.4851.0504.25.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25°	1*CHOOSE
005	8115.4851.0504.30.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30°	1*CHOOSE
005	8115.4851.0504.35.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35°	1*CHOOSE
005	8115.4851.0504.40.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40°	1*CHOOSE
005	8115.4851.0504.45.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°	1*CHOOSE
005	8115.4851.0504.50.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50°	1*CHOOSE
006	8115.4851.0504.05.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°	1*CHOOSE
006	8115.4851.0504.10.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10°	1*CHOOSE
006	8115.4851.0504.15.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15°	1*CHOOSE

POS.	CODE	DESCRIPTION	Q.TY
006	8115.4851.0504.20.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20°	1*CHOOSE
006	8115.4851.0504.25.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25°	1*CHOOSE
006	8115.4851.0504.30.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30°	1*CHOOSE
006	8115.4851.0504.35.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35°	1*CHOOSE
006	8115.4851.0504.40.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40°	1*CHOOSE
006	8115.4851.0504.45.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°	1*CHOOSE
006	8115.4851.0504.50.002	STAFFA DI AGGANCIAMENTO / 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	SEGER / SEGER / 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

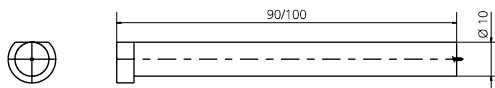
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE 505 daN SFORZO MAX TRANCIO 4500 daN
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION 1100 daN CUTTING MAX FORCE
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION MAXIMALE SCHNITTKRAFT
 EFFORT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



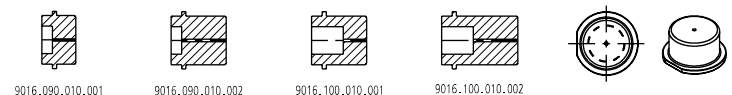
α°	PRESS STROKE	A	B	C	D	E
5°	20.1	118.15	70.5	73.8	109.5	27
10°	20.3	120.4	66.5	68.55	110.75	28
15°	20.7	122.3	62.5	62.5	117.85	36
20°	21.3	123.2	56.5	55.9	125.6	42
25°	22.05	123.85	51.5	49.05	132	49
30°	23.1	126.85	46.8	46	139.1	57
35°	24.4	124.2	37.8	36.9	149.65	66
40°	26.1	122.5	31.8	28.65	157.1	72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

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

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



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



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



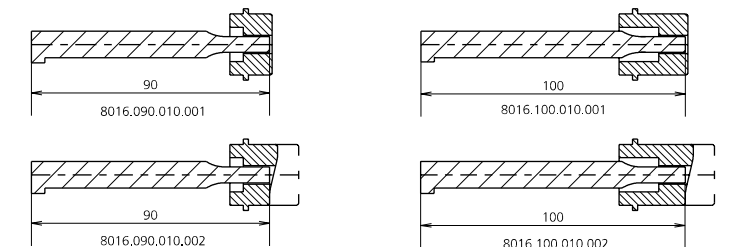
013 (8016) PREMILAMIERA SAGOMATO / SHAPED BLANKHOLDER / GEFORMT BLECHHALTER



012 (9003) SENSORE / SENSOR / SENSOR



12 PATENT PENDING



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

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

0148.6953 - CAM SMEG695-13

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

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

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

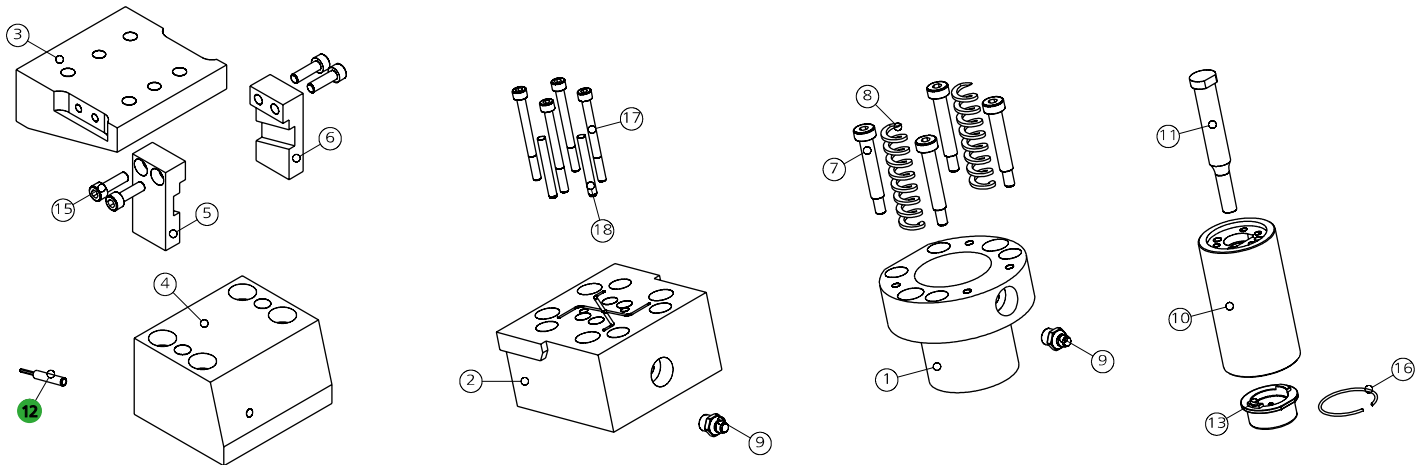
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **6000 daN**

CUTTING MAX FORCE

MAXIMALE SCHNITTKRAFT

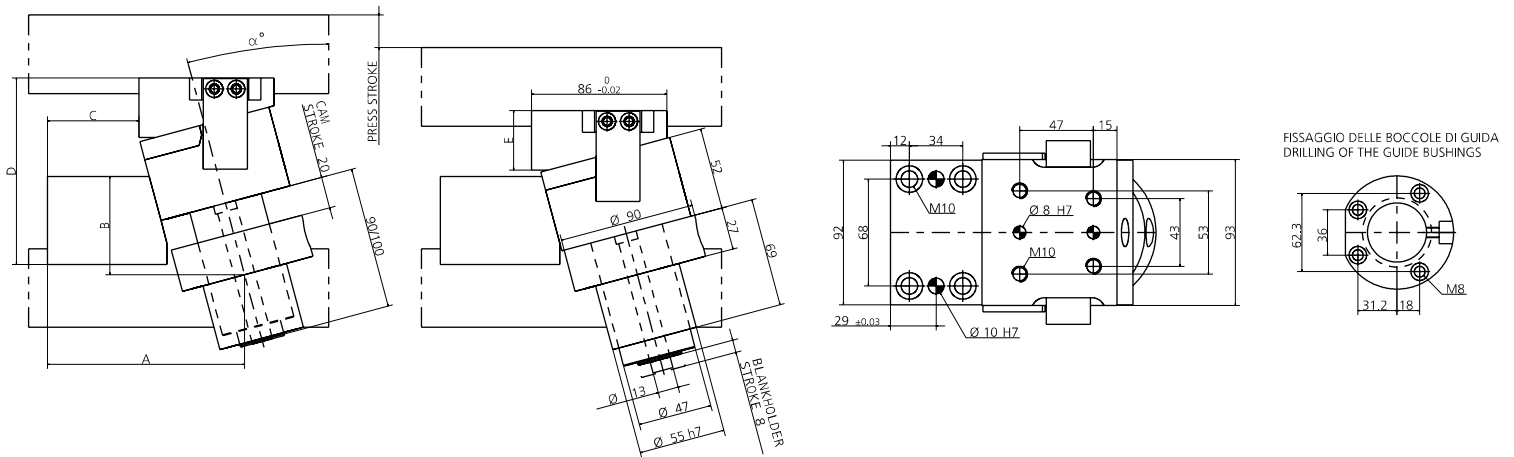
EFFORT MAXI DÉCOUPE



POS.	CODE	DESCRIPTION	Q.TY
001	8013.0690.0900.470.001	BOCCOLA DI GUIDA / GUIDE BUSHINGS / FÜHRUNGSBUCHSE	1
002	8014.0048.0695	PORTA PUNZONE / PUNCHES 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 AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°	1*CHOOSE
005	8115.4851.0605.10.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10°	1*CHOOSE
005	8115.4851.0605.15.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15°	1*CHOOSE
005	8115.4851.0605.20.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20°	1*CHOOSE
005	8115.4851.0605.25.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25°	1*CHOOSE
005	8115.4851.0605.30.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30°	1*CHOOSE
005	8115.4851.0605.35.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35°	1*CHOOSE
005	8115.4851.0605.40.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40°	1*CHOOSE
005	8115.4851.0605.45.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°	1*CHOOSE
005	8115.4851.0605.50.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50°	1*CHOOSE
006	8115.4851.0605.05.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°	1*CHOOSE
006	8115.4851.0605.10.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10°	1*CHOOSE
006	8115.4851.0605.15.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15°	1*CHOOSE

POS.	CODE	DESCRIPTION	Q.TY
006	8115.4851.0605.20.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20°	1*CHOOSE
006	8115.4851.0605.25.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25°	1*CHOOSE
006	8115.4851.0605.30.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30°	1*CHOOSE
006	8115.4851.0605.35.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35°	1*CHOOSE
006	8115.4851.0605.40.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40°	1*CHOOSE
006	8115.4851.0605.45.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°	1*CHOOSE
006	8115.4851.0605.50.002	STAFFA DI AGGANCIAMENTO / 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	SEGER / SEGER / 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

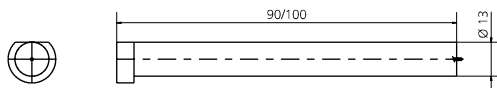
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **695 daN** SFORZO MAX TRANCIO **6000 daN**
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION
 CUTTING MAX FORCE
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1530 daN** MAXIMALE SCHNITTKRAFT
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION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



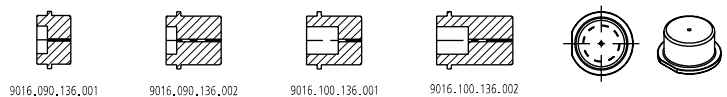
α°	PRESS STROKE	A	B	C	D	E
5°	20.1	121.3	72.5	70	107.15	28
10°	20.3	123.65	67.5	64.3	114.5	35
15°	20.7	125.45	62.5	58.15	118.7	38
20°	21.3	126.8	57.5	52.5	125.8	46
25°	22.05	127.25	51.5	45.45	133.4	53
30°	23.1	126	41.8	38.15	140.7	58
35°	24.4	126.2	37.8	31.35	146.2	63
40°	26.1	123.55	30.8	22.7	155.25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

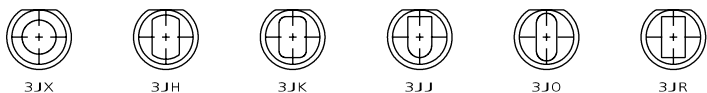
0011 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



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



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



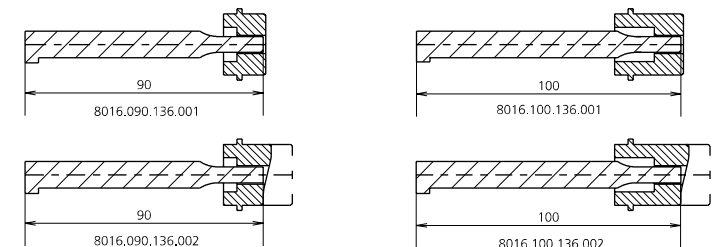
013 (8016) PREMILAMIERA SAGOMATO / SHAPED BLANKHOLDER / GEFORMT BLECHHALTER



012 (9003) SENSORE / SENSOR / SENSOR



12 PATENT PENDING

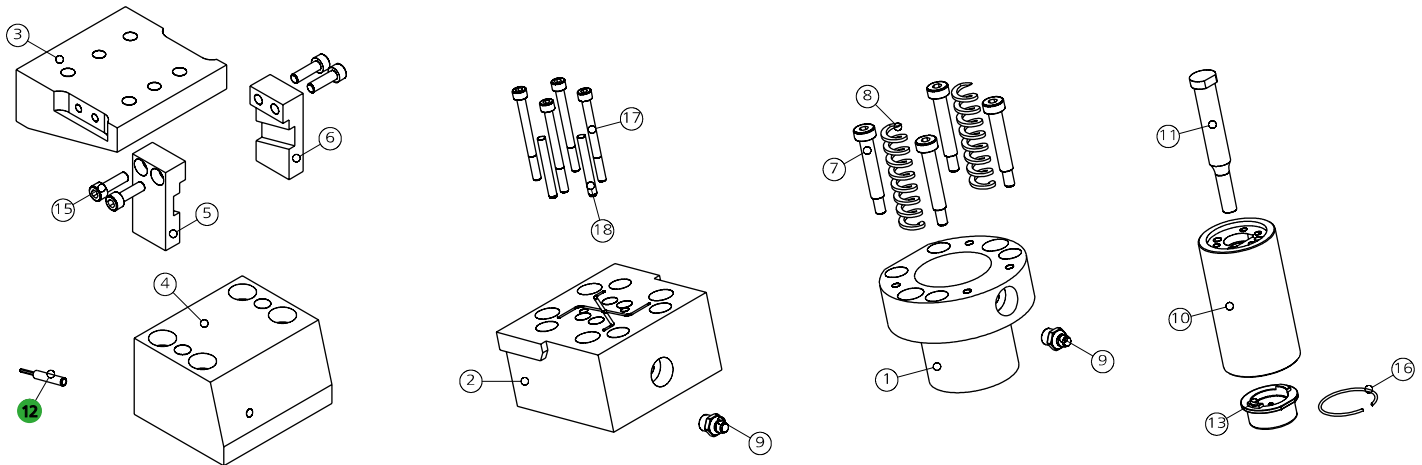


MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

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

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

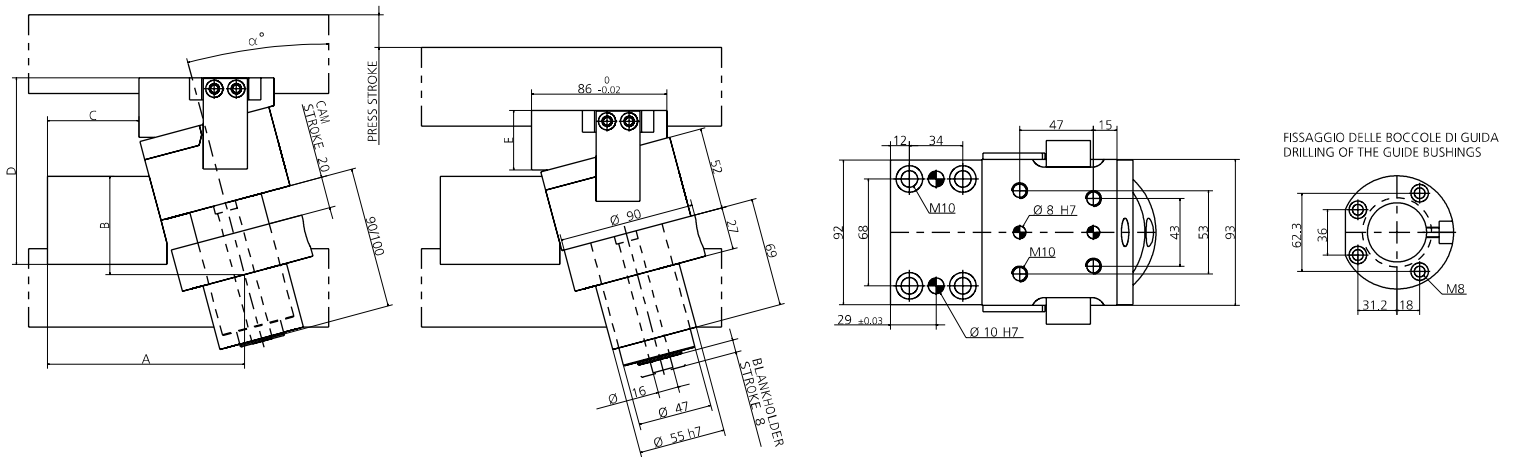
SFORZO MAX TRANCIO **6000 daN**
 CUTTING MAX FORCE
 MAXIMALE SCHNITTKRAFT
 EFFORT MAXI DÉCOUPE



POS.	CODE	DESCRIPTION	Q.TY
001	8013.0690.0900.470.001	BOCCOLA DI GUIDA / GUIDE BUSHINGS / FÜHRUNGSBUCHSE	1
002	8014.0048.0695	PORTA PUNZONE / PUNCHES 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 AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°	1*CHOOSE
005	8115.4851.0605.10.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10°	1*CHOOSE
005	8115.4851.0605.15.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15°	1*CHOOSE
005	8115.4851.0605.20.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20°	1*CHOOSE
005	8115.4851.0605.25.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25°	1*CHOOSE
005	8115.4851.0605.30.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30°	1*CHOOSE
005	8115.4851.0605.35.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35°	1*CHOOSE
005	8115.4851.0605.40.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40°	1*CHOOSE
005	8115.4851.0605.45.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°	1*CHOOSE
005	8115.4851.0605.50.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50°	1*CHOOSE
006	8115.4851.0605.05.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°	1*CHOOSE
006	8115.4851.0605.10.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10°	1*CHOOSE
006	8115.4851.0605.15.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15°	1*CHOOSE

POS.	CODE	DESCRIPTION	Q.TY
006	8115.4851.0605.20.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20°	1*CHOOSE
006	8115.4851.0605.25.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25°	1*CHOOSE
006	8115.4851.0605.30.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30°	1*CHOOSE
006	8115.4851.0605.35.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35°	1*CHOOSE
006	8115.4851.0605.40.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40°	1*CHOOSE
006	8115.4851.0605.45.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°	1*CHOOSE
006	8115.4851.0605.50.002	STAFFA DI AGGANCIAMENTO / 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	9090.3JB2M.160.090	PUNZONE SBOZZATO TC CON ESPULSORE / BLANK-HEADED PUNCH WITH EJECTOR / ROHLING SCHNEIDSTEMPEL MIT ABSTOSSER 10 90	1*OPTION
011	9090.3JB2M.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	SEGER / SEGER / 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

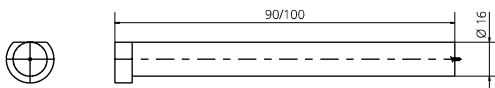
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **695 daN** SFORZO MAX TRANCIO **6000 daN**
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1530 daN** CUTTING MAX FORCE
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION MAXIMALE SCHNITTKRAFT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



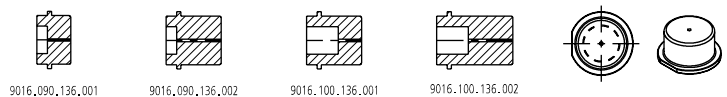
α°	PRESS STROKE	A	B	C	D	E
5°	20.1	121.3	72.5	70	107.15	28
10°	20.3	123.65	67.5	64.3	114.5	35
15°	20.7	125.45	62.5	58.15	118.7	38
20°	21.3	126.8	57.5	52.5	125.8	46
25°	22.05	127.25	51.5	45.45	133.4	53
30°	23.1	126	41.8	38.15	140.7	58
35°	24.4	126.2	37.8	31.35	146.2	63
40°	26.1	123.55	30.8	22.7	155.25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

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

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



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



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



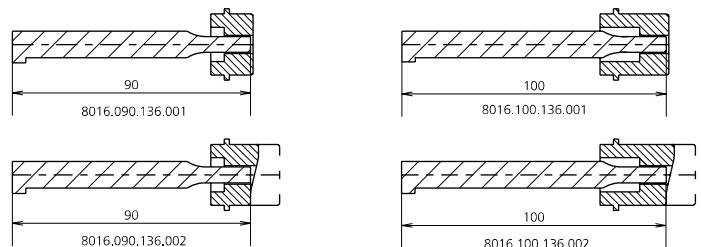
013 (8016) PREMILAMIERA SAGOMATO / SHAPED BLANKHOLDER / GEFORMT BLECHHALTER



012 (9003) SENSORE / SENSOR / SENSOR



12 PATENT PENDING



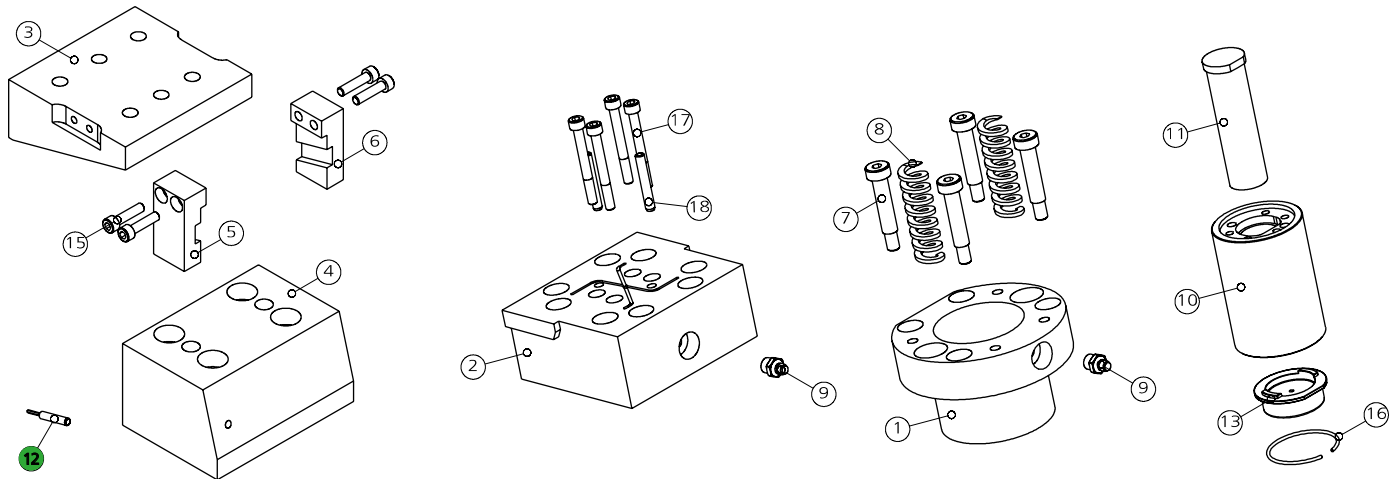
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

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

0148.1160 - CAM SMEG1160-20

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

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

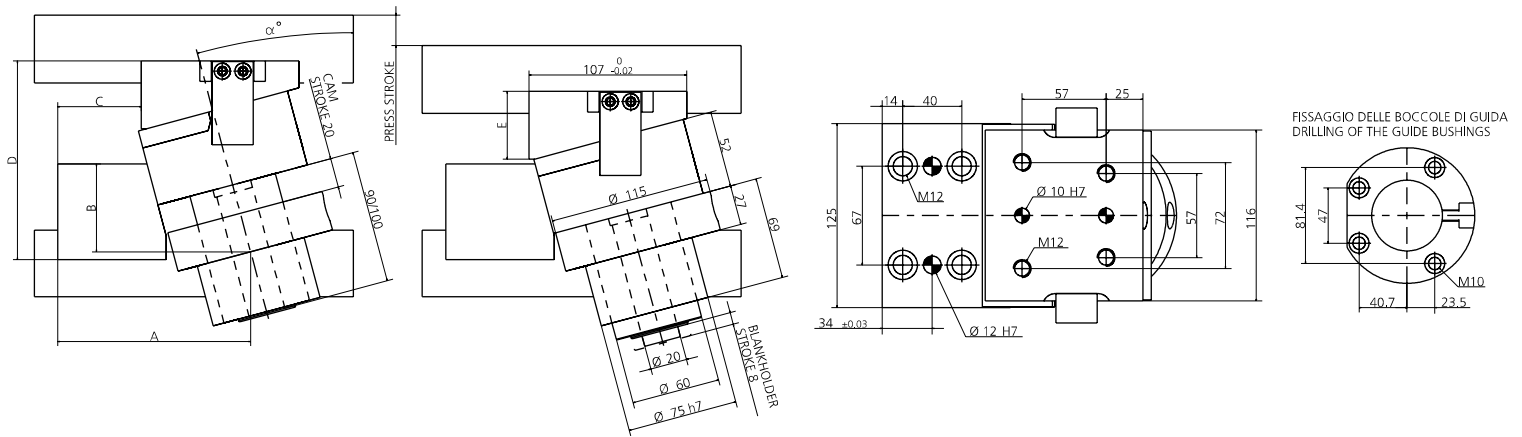


POS.	CODE	DESCRIPTION	Q.TY
001	8013.0690.1150.600.001	BOCCOLA DI GUIDA / GUIDE BUSHINGS / FÜHRUNGSBUCHSE	1
002	8014.0048.1160	PORTA PUNZONE / PUNCHES HOLDER / TRÄGERPLATTE	1
003	8116.4851.1106.05.001	INCUDINE / ANVIL / TREIBER 5°	1*CHOOSE
003	8116.4851.1106.10.001	INCUDINE / ANVIL / TREIBER 10°	1*CHOOSE
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 AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°	1*CHOOSE
005	8115.4851.1106.10.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10°	1*CHOOSE
005	8115.4851.1106.15.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15°	1*CHOOSE
005	8115.4851.1106.20.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20°	1*CHOOSE
005	8115.4851.1106.25.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25°	1*CHOOSE
005	8115.4851.1106.30.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30°	1*CHOOSE
005	8115.4851.1106.35.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35°	1*CHOOSE
005	8115.4851.1106.40.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40°	1*CHOOSE
005	8115.4851.1106.45.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°	1*CHOOSE
005	8115.4851.1106.50.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50°	1*CHOOSE
006	8115.4851.1106.05.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°	1*CHOOSE
006	8115.4851.1106.10.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10°	1*CHOOSE
006	8115.4851.1106.15.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15°	1*CHOOSE

POS.	CODE	DESCRIPTION	Q.TY
006	8115.4851.1106.20.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20°	1*CHOOSE
006	8115.4851.1106.25.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25°	1*CHOOSE
006	8115.4851.1106.30.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30°	1*CHOOSE
006	8115.4851.1106.35.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35°	1*CHOOSE
006	8115.4851.1106.40.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40°	1*CHOOSE
006	8115.4851.1106.45.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°	1*CHOOSE
006	8115.4851.1106.50.002	STAFFA DI AGGANCIAMENTO / 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	SEGER / SEGER / 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

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

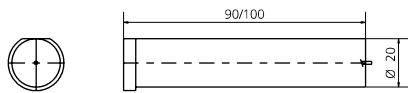
SFORZO MAX TRANCIO **9000 daN**
 CUTTING MAX FORCE
 MAXIMALE SCHNITTKRAFT
 EFFORT MAXI DÉCOUPE



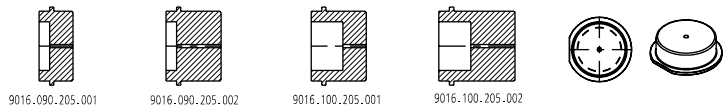
α°	PRESS STROKE	A	B	C	D	E
5°	20.1	141.7	71.6	83.45	123.4	35
10°	20.3	143.3	65.6	77	125.5	35
15°	20.7	144.23	56.6	70	135	46
20°	21.3	144.6	53.6	63.85	144.65	54
25°	22.05	144.15	47.1	55.9	154.25	64
30°	23.1	143.75	36.9	48	159	67
35°	24.4	142.9	31.9	41.15	167.75	76
40°	26.1	139.85	24.9	32.6	179.25	86
45°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

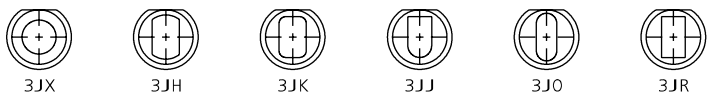
0011 (9090) PUNZONE SBOZZATO / BLANK PUNCH / ROHLING SCHNEIDSTEMPEL ISO8020



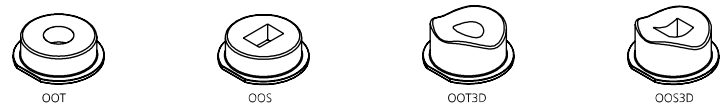
013 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



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



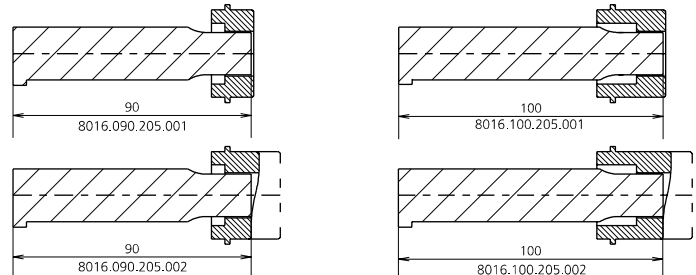
013 (8016) PREMILAMIERA SAGOMATO / SHAPED BLANKHOLDER / GEFORMT BLECHHALTER



012 (9003) SENSORE / SENSOR / SENSOR



12 PATENT PENDING



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

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

0148.1165 - CAM SMEG1160-25

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

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

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

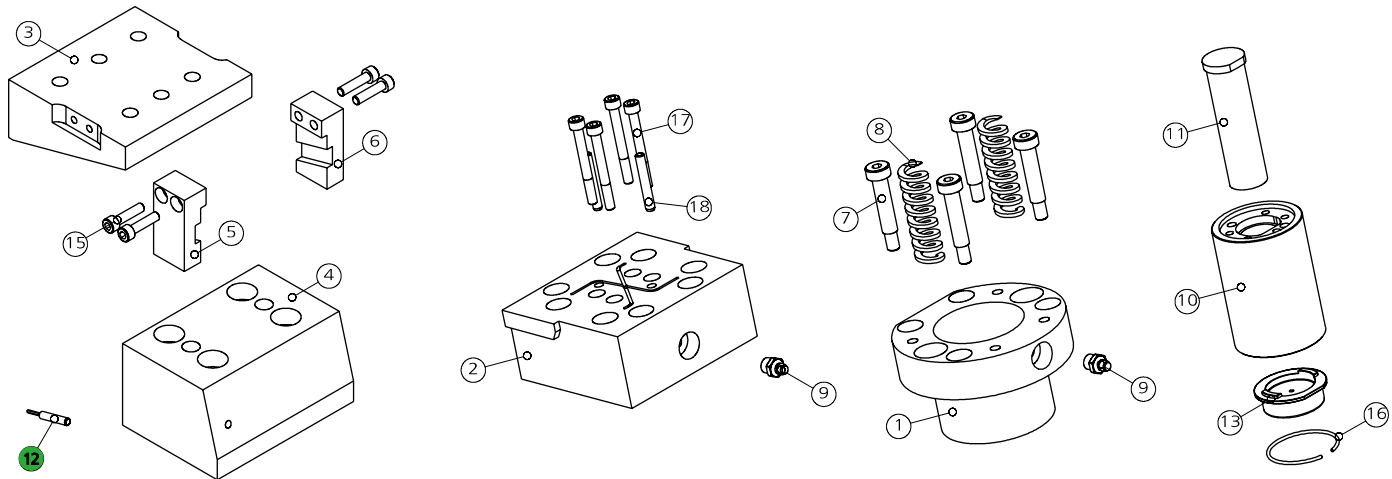
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **9000 daN**

CUTTING MAX FORCE

MAXIMALE SCHNITTKRAFT

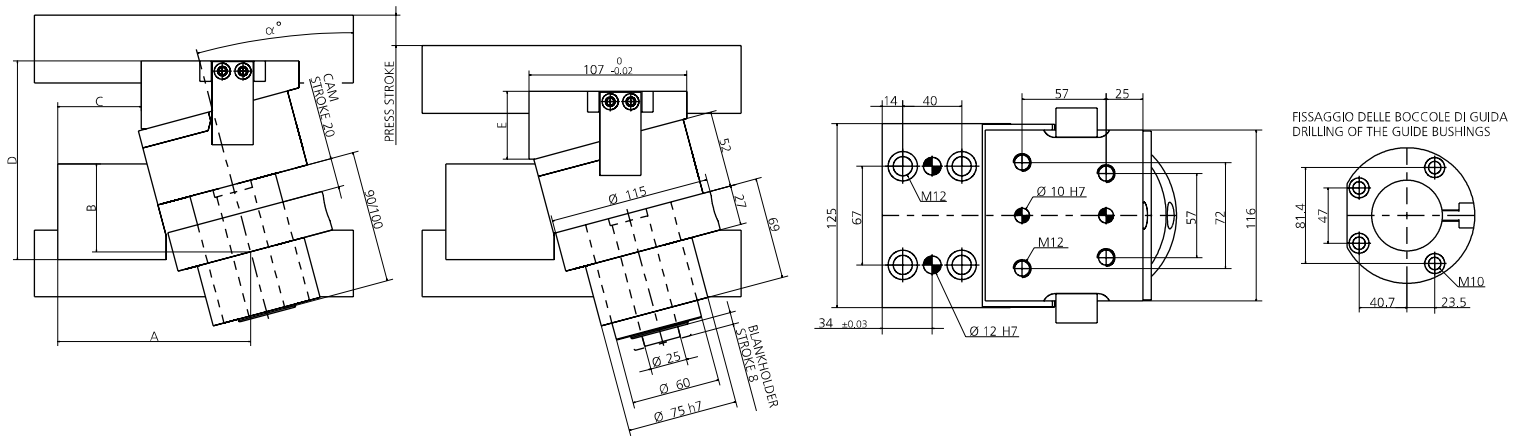
EFFORT MAXI DÉCOUPE



POS.	CODE	DESCRIPTION	Q.TY
001	8013.0690.1150.600.001	BOCCOLA DI GUIDA / GUIDE BUSHINGS / FÜHRUNGSBÜCHSE	1
002	8014.0048.1160	PORTA PUNZONE / PUNCHES 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 AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°	1*CHOOSE
005	8115.4851.1106.10.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10°	1*CHOOSE
005	8115.4851.1106.15.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15°	1*CHOOSE
005	8115.4851.1106.20.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20°	1*CHOOSE
005	8115.4851.1106.25.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25°	1*CHOOSE
005	8115.4851.1106.30.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30°	1*CHOOSE
005	8115.4851.1106.35.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35°	1*CHOOSE
005	8115.4851.1106.40.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40°	1*CHOOSE
005	8115.4851.1106.45.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°	1*CHOOSE
005	8115.4851.1106.50.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50°	1*CHOOSE
006	8115.4851.1106.05.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°	1*CHOOSE
006	8115.4851.1106.10.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10°	1*CHOOSE
006	8115.4851.1106.15.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15°	1*CHOOSE

POS.	CODE	DESCRIPTION	Q.TY
006	8115.4851.1106.20.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20°	1*CHOOSE
006	8115.4851.1106.25.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25°	1*CHOOSE
006	8115.4851.1106.30.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30°	1*CHOOSE
006	8115.4851.1106.35.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35°	1*CHOOSE
006	8115.4851.1106.40.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40°	1*CHOOSE
006	8115.4851.1106.45.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°	1*CHOOSE
006	8115.4851.1106.50.002	STAFFA DI AGGANCIAMENTO / 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

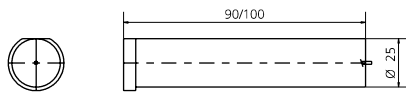
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **1160 daN** SFORZO MAX TRANCIO **9000 daN**
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **2550 daN** CUTTING MAX FORCE
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION MAXIMALE SCHNITTKRAFT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



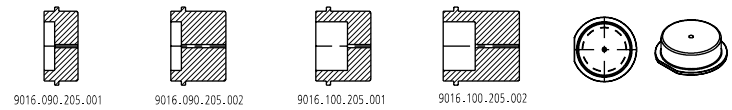
α°	PRESS STROKE	A	B	C	D	E
5°	20.1	141.7	71.6	83.45	123.4	35
10°	20.3	143.3	65.6	77	125.5	35
15°	20.7	144.23	56.6	70	135	46
20°	21.3	144.6	53.6	63.85	144.65	54
25°	22.05	144.15	47.1	55.9	154.25	64
30°	23.1	143.75	36.9	48	159	67
35°	24.4	142.9	31.9	41.15	167.75	76
40°	26.1	139.85	24.9	32.6	179.25	86
45°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

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



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



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



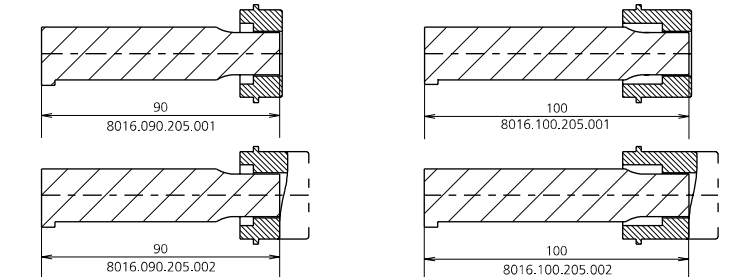
013 (8016) PREMILAMIERA SAGOMATO / SHAPED BLANKHOLDER / GEFORMT BLECHHALTER



012 (9003) SENSORE / SENSOR / SENSOR



12 PATENT PENDING



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

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

0148.1392 - CAM SMEG1390-32

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

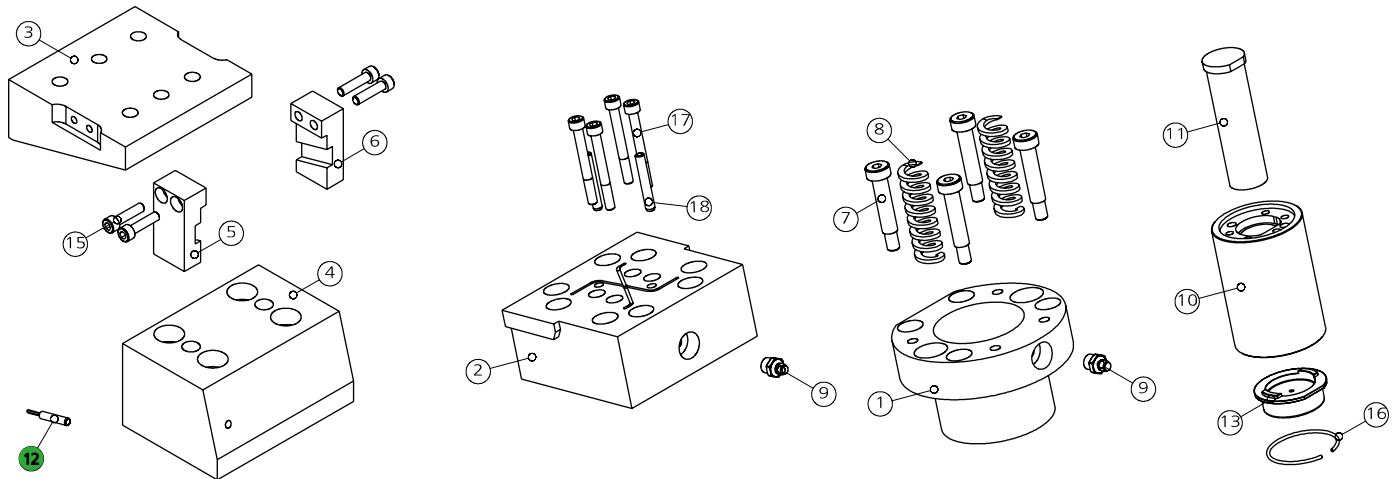
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

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

ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **12000 daN**

CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE

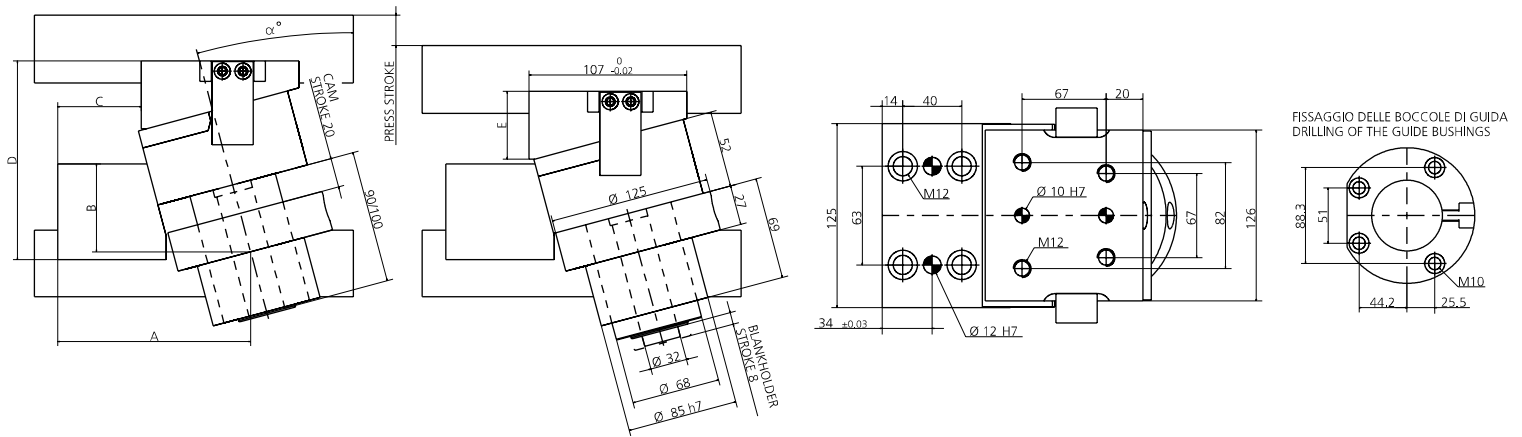


POS.	CODE	DESCRIPTION	Q.TY
001	8013.0690.1250.680.001	BOCCOLA DI GUIDA / GUIDE BUSHINGS / FÜHRUNGSBUCHSE	1
002	8014.0048.1390	PORTA PUNZONE / PUNCHES HOLDER / TRÄGERPLATTE	1
003	8116.4851.1307.05.001	INCUDINE / ANVIL / TREIBER 5°	1*CHOOSE
003	8116.4851.1307.10.001	INCUDINE / ANVIL / TREIBER 10°	1*CHOOSE
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 AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°	1*CHOOSE
005	8115.4851.1307.10.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10°	1*CHOOSE
005	8115.4851.1307.15.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15°	1*CHOOSE
005	8115.4851.1307.20.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20°	1*CHOOSE
005	8115.4851.1307.25.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25°	1*CHOOSE
005	8115.4851.1307.30.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30°	1*CHOOSE
005	8115.4851.1307.35.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35°	1*CHOOSE
005	8115.4851.1307.40.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40°	1*CHOOSE
005	8115.4851.1307.45.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°	1*CHOOSE
005	8115.4851.1307.50.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50°	1*CHOOSE
006	8115.4851.1307.05.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°	1*CHOOSE
006	8115.4851.1307.10.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10°	1*CHOOSE
006	8115.4851.1307.15.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15°	1*CHOOSE

POS.	CODE	DESCRIPTION	Q.TY
006	8115.4851.1307.20.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20°	1*CHOOSE
006	8115.4851.1307.25.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25°	1*CHOOSE
006	8115.4851.1307.30.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30°	1*CHOOSE
006	8115.4851.1307.35.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35°	1*CHOOSE
006	8115.4851.1307.40.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40°	1*CHOOSE
006	8115.4851.1307.45.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°	1*CHOOSE
006	8115.4851.1307.50.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50°	1*CHOOSE
007	9008.1012.040	VITE A COLLETO / 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

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

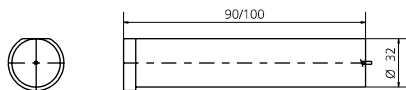
SFORZO MAX TRANCIO **12000 daN**
 CUTTING MAX FORCE
 MAXIMALE SCHNITTKRAFT
 EFFORT MAXI DÉCOUPE



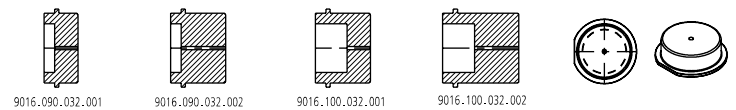
α°	PRESS STROKE	A	B	C	D	E
5°	20.1	144	69.4	87.65	127.8	37
10°	20.3	145.6	64.4	81.25	127.5	37
15°	20.7	146.5	58.4	73.15	135.95	46
20°	21.3	146.5	51.4	66.6	146.65	54
25°	22.05	145.65	44.4	58.25	156.8	64
30°	23.1	145.55	35.7	50.65	160.25	67
35°	24.4	144.6	30.7	43.7	169.1	77
40°	26.1	140.65	22.7	33.75	181.3	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 TECNICONESTARK / * FOR NON-STANDARD INCLINATIONS, PLEASE CONTACT NEWSTARK TECHNICAL OFFICE.
 / * FÜR NICHT STANDARDMÄSSIGE NEIGUNGEN WENDEN SIE SICH BITTE AN DAS TECHNISCHE BÜRO VON NEWSTARK

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



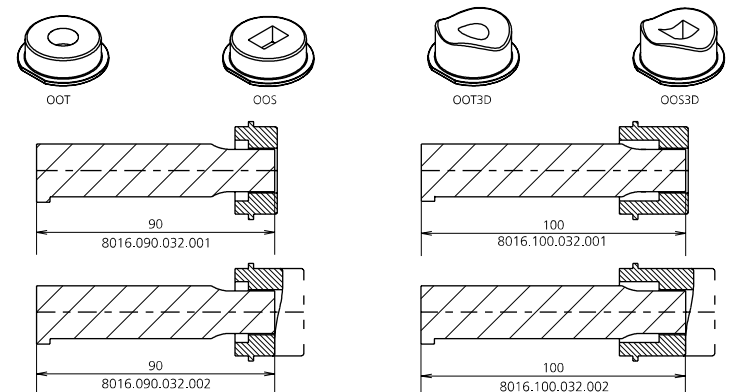
013 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



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



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



012 (9003) SENSORE / SENSOR / SENSOR



12 PATENT PENDING

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

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

0148.1880 - CAM SMEG1880-40

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

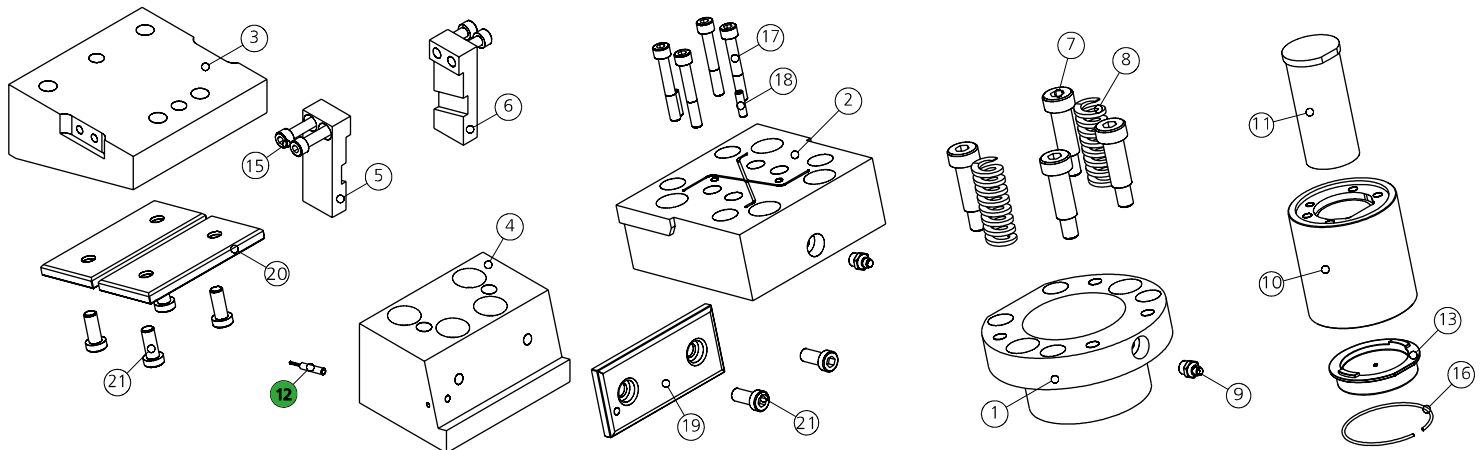
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

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

ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **17000 daN**

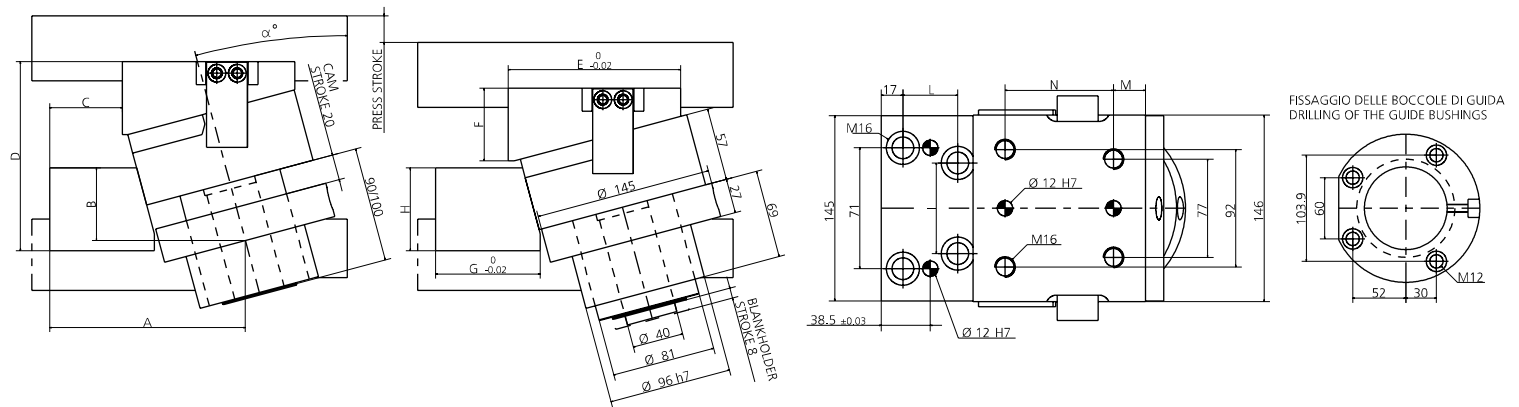
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



POS.	CODE	DESCRIPTION	Q.TY
001	8013.0690.1450.810.001	BOCCOLA DI GUIDA / GUIDE BUSHINGS / FÜHRUNGSBUCHSE	1
002	8014.0048.1880	PORTA PUNZONE / PUNCHES 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 AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°	1*CHOOSE
005	8115.4851.1808.10.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10°	1*CHOOSE
005	8115.4851.1808.15.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15°	1*CHOOSE
005	8115.4851.1808.20.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20°	1*CHOOSE
005	8115.4851.1808.25.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25°	1*CHOOSE
005	8115.4851.1808.30.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30°	1*CHOOSE
005	8115.4851.1808.35.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35°	1*CHOOSE
005	8115.4851.1808.40.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40°	1*CHOOSE
005	8115.4851.1808.45.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°	1*CHOOSE
005	8115.4851.1808.50.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50°	1*CHOOSE
006	8115.4851.1808.05.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°	1*CHOOSE
006	8115.4851.1808.10.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10°	1*CHOOSE
006	8115.4851.1808.15.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15°	1*CHOOSE
006	8115.4851.1808.20.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20°	1*CHOOSE

POS.	CODE	DESCRIPTION	Q.TY
006	8115.4851.1808.25.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25°	1*CHOOSE
006	8115.4851.1808.30.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30°	1*CHOOSE
006	8115.4851.1808.35.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35°	1*CHOOSE
006	8115.4851.1808.40.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40°	1*CHOOSE
006	8115.4851.1808.45.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°	1*CHOOSE
006	8115.4851.1808.50.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50°	1*CHOOSE
007	9008.1216.040	VITE A COLLETTA / 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	SEGER / SEGER / 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

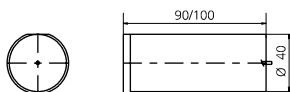
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **1880 daN** SFORZO MAX TRANCIO **17000 daN**
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **4100 daN** CUTTING MAX FORCE
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION MAXIMALE SCHNITTKRAFT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



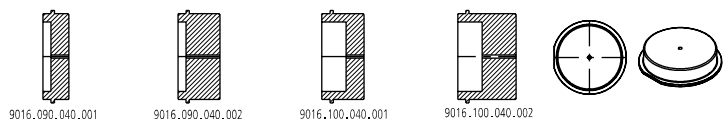
α°	PRESS STROKE	A	B	C	D	E	F	G	H	I	L	M	N
5°	20.1	165.85	74.9	87	155.1	136	56	95	75	41	43	23	90
10°	20.3	166.85	66.9	80	156.35	136	56	95	75	41	43	23	90
15°	20.7	167.35	59.9	73	166.65	136	51	95	75	41	38	23	90
20°	21.3	178.35	50.9	80.5	168.2	125	76	105	65	41	43	17.5	90
25°	22.05	177.35	43.9	71.5	166.95	125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

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



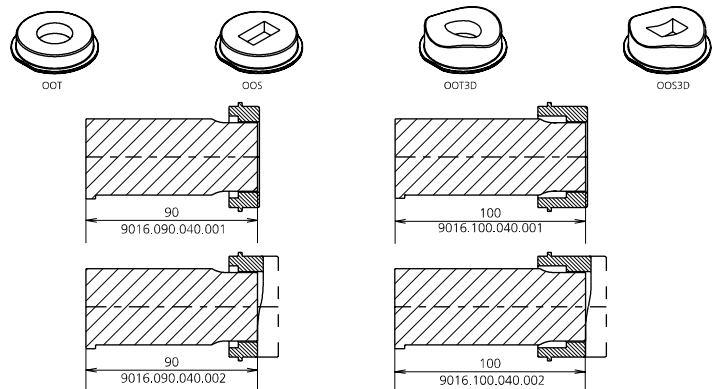
013 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



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



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



012 (9003) SENSORE / SENSOR / SENSOR



12 PATENT PENDING

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

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

0148.3303 - CAM SMEG3300-63

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

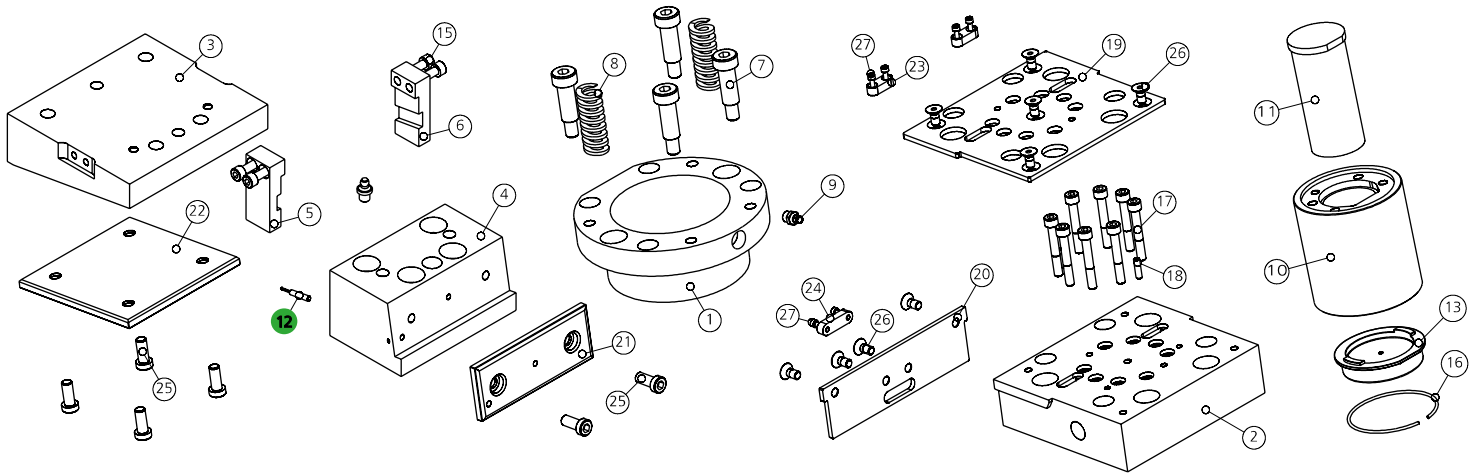
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

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

ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **30000 daN**

CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE

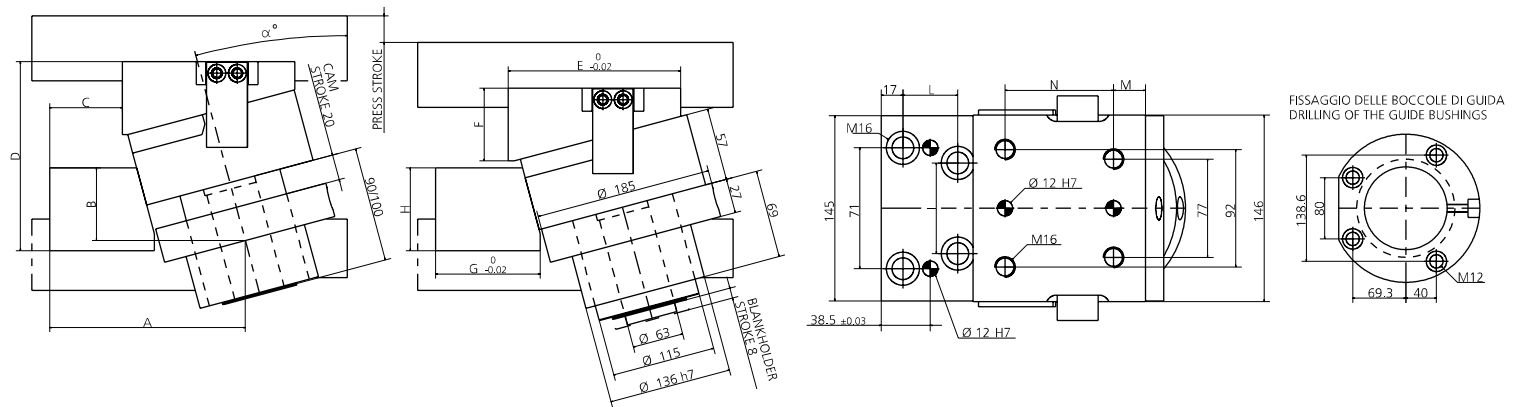


POS.	CODE	DESCRIPTION	Q.TY
001	8013.0690.1850.115.001	BOCCOLA DI GUIDA / GUIDE BUSHINGS / FÜHRUNGSBUCHSE	1
002	8014.0048.3300	PORTA PUNZONE / PUNCHES HOLDER / TRÄGERPLATTE	1
003	8116.4851.3311.05.001	INCUDINE / ANVIL / TREIBER 5°	1*CHOOSE
003	8116.4851.3311.10.001	INCUDINE / ANVIL / TREIBER 10°	1*CHOOSE
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 AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°	1*CHOOSE
005	8115.4851.3311.10.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10°	1*CHOOSE
005	8115.4851.3311.15.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15°	1*CHOOSE
005	8115.4851.3311.20.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20°	1*CHOOSE
005	8115.4851.3311.25.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25°	1*CHOOSE
005	8115.4851.3311.30.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30°	1*CHOOSE
005	8115.4851.3311.35.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35°	1*CHOOSE
005	8115.4851.3311.40.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40°	1*CHOOSE
005	8115.4851.3311.45.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°	1*CHOOSE
005	8115.4851.3311.50.001	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 50°	1*CHOOSE
006	8115.4851.3311.05.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 5°	1*CHOOSE
006	8115.4851.3311.10.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 10°	1*CHOOSE
006	8115.4851.3311.15.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 15°	1*CHOOSE
006	8115.4851.3311.20.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 20°	1*CHOOSE
006	8115.4851.3311.25.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 25°	1*CHOOSE
006	8115.4851.3311.30.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 30°	1*CHOOSE

POS.	CODE	DESCRIPTION	Q.TY
006	8115.4851.3311.35.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 35°	1*CHOOSE
006	8115.4851.3311.40.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 40°	1*CHOOSE
006	8115.4851.3311.45.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°	1*CHOOSE
006	8115.4851.3311.50.002	STAFFA DI AGGANCIAMENTO / 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	SEEEGER / 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

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

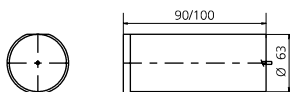
SFORZO MAX TRANCIO **30000 daN**
 CUTTING MAX FORCE
 MAXIMALE SCHNITTKRAFT
 EFFORT MAXI DÉCOUPE



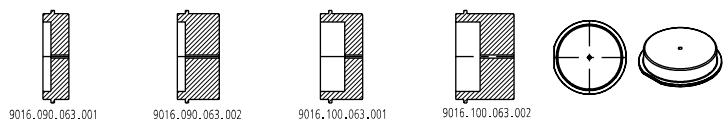
α°	PRESS STROKE	A	B	C	D	E	F	G	H	I	L	M	N
5°	20.1	187.35	77.85	95	142.05	165	46	96	76	56	43	27.5	110
10°	20.3	188.35	68.35	89.5	154.3	165	56	96	76	56	43	27.5	110
15°	20.7	199.35	59.35	99	167.65	155	67	106	76	56	43	22.5	110
20°	21.3	199.35	49.35	90	177.7	155	76	106	76	56	43	22.5	110
25°	22.05	198.35	39.35	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 TECNICO NEWSTARK / * FOR NON-STANDARD INCLINATIONS, PLEASE CONTACT NEWSTARK TECHNICAL OFFICE.
 / * FÜR NICHT STANDARDMÄSSIGE NEIGUNGEN WENDEN SIE SICH BITTE AN DAS TECHNISCHE BÜRO VON NEWSTARK

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



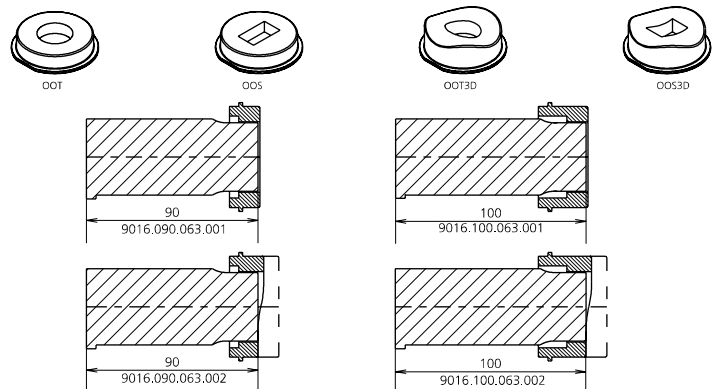
013 (9016) PREMILAMIERA SBOZZATO / BLANK-BLANKHOLDER / ROHLING BLECHHALTER



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



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



012 (9003) SENSORE / SENSOR / SENSOR



12 PATENT PENDING

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

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



CAM SUPER SMEG

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

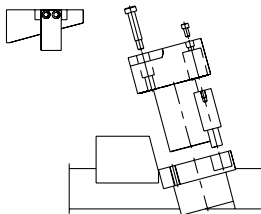


PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE



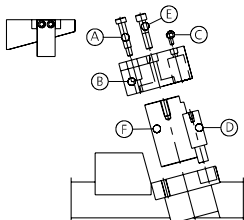
CAM SUPER SMEG

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



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

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



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

- IT** **Attenzione:** Assicurarsi che la camma sia nella sua posizione normale prima di eseguire qualsiasi lavoro di smontaggio o manutenzione.
1. Togliere il "portapunzoni "B" rimuovendo le viti a colletto "A".
 2. Togliere i cilindri "D" rimuovendo le viti "C".
 3. Togliere il perno centrale "F" rimuovendo le viti "C".
 4. Eseguire le verifiche.
 5. Rimontare con cura lubrificando con grasso bisolfuro di Molibdeno (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 reassembly or maintenance work only when the cam unit is in its basic position.
1. Take off the punch holder "B" by removing the shoulder screws "A".
 2. Remove cylinders "D" by removing screws "C".
 3. Remove the central pin "F" by removing the screws "C".
 4. Check the components.
 5. Reassemble carefully using grease with disulfide molybdeno (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).

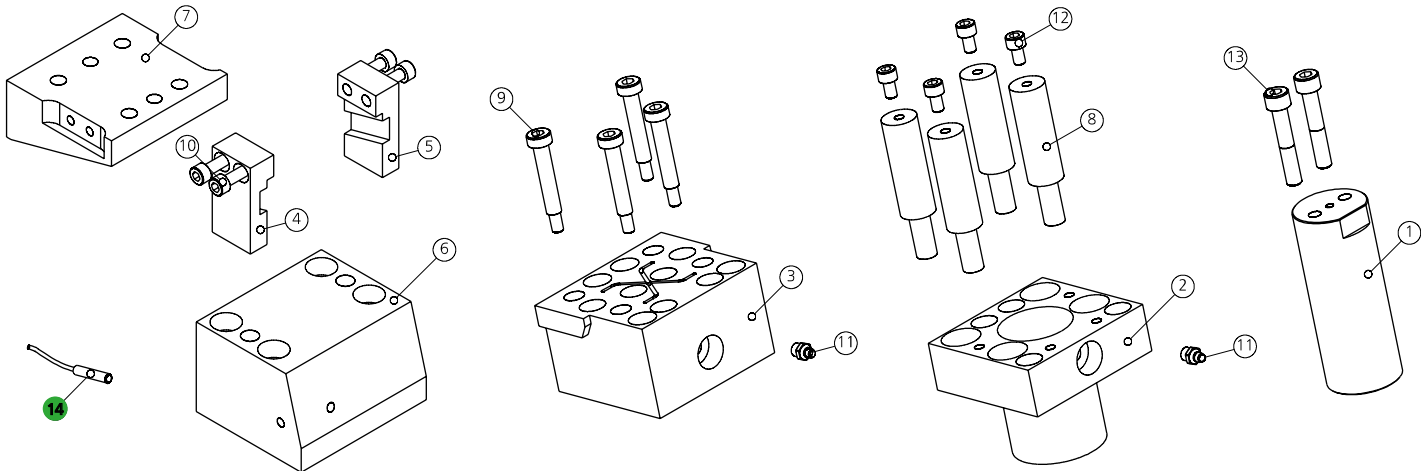
- DE** **Achtung:** Wartungs- und Demontearbeiten nur in Grundstellung der Stanzeinheit vornehmen.
1. Trägerplatte "B" entfernen um die Ansatzschraube "A" herauszuziehen.
 2. Entfernen Sie die Zylinder "D" durch Entfernen der Schrauben "C".
 3. Entfernen Sie den Mittelstift "F", indem Sie die Schrauben "C" entfernen.
 4. Komponenten prüfen.
 5. Montage in umgekehrter Reihenfolge unter Verwendung von Molybdändisulfidfett (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 colerette "A".
 2. Retirez les cylindres "D" en enlevant les vis "C".
 3. Retirez la goupille centrale "F" en enlevant les vis "C".
 4. Effectuer les contrôles.
 5. Remonter soigneusement en lubrifiant avec de la graisse au bisulfure de molybdène (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 **680 daN**
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1030 daN**
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

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



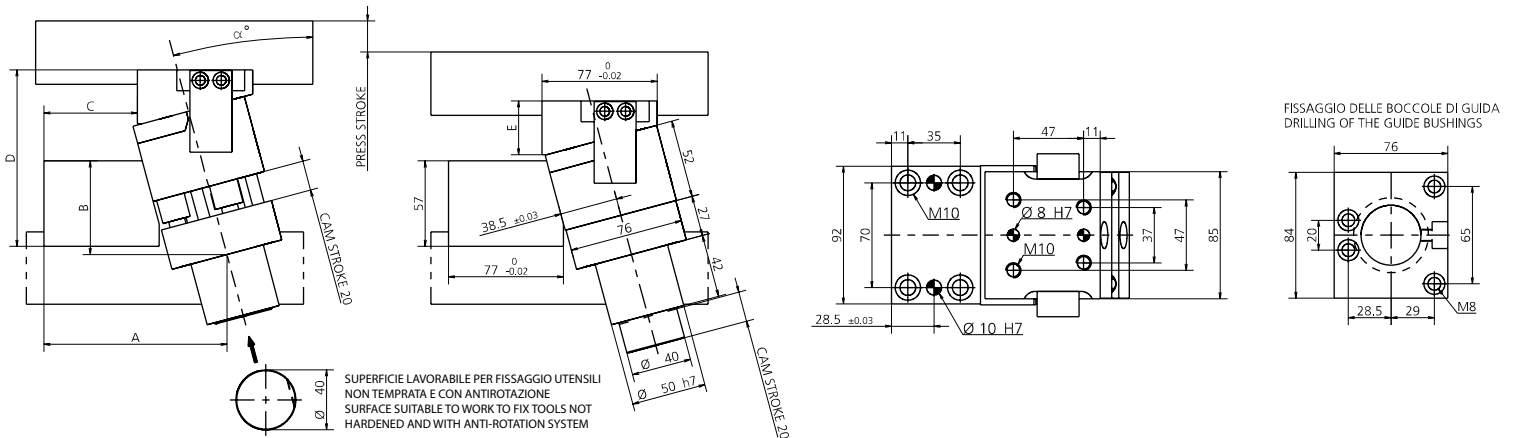
POS.	CODE	DESCRIPTION	Q.TY
001	8018.1000.0000.400.001	PERNO CENTRALE / CENTRAL PIN / HAUPTSTIFT	1
002	8013.0690.0500.400.001	BOCCOLA DI GUIDA / GUIDE BUSHINGS / FÜHRUNGSBUCHSE	1
003	8014.0051.0604	PORTA PUNZONE / PUNCHES HOLDER / TRÄGERPLATTE	1
004	8115.4851.0504.05.001	STAFFA DI AGGANCIAMENTO / BRACKET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

POS.	CODE	DESCRIPTION	Q.TY
005	8115.4851.0504.45.002	STAFFA DI AGGANCIAMENTO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG 45°	1*CHOOSE
005	8115.4851.0504.50.002	STAFFA DI AGGANCIAMENTO / 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 **680 daN** SFORZO MAX TRANCIO **6000 daN**
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1030 daN** CUTTING MAX FORCE
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION MAXIMALE SCHNITTKRAFT
 EFFORT MAXI DÉCOUPE



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

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

014 (9003) SENSORE / SENSOR / SENSOR



14 PATENT PENDING

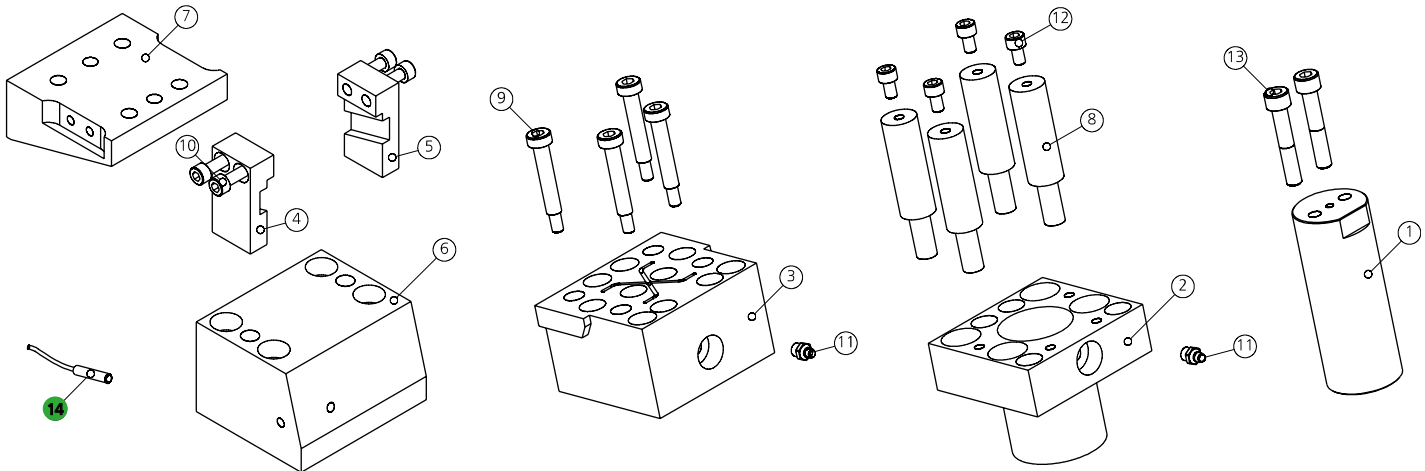
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

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

0151.0605 - CAM SUPER-SMEG0605

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

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



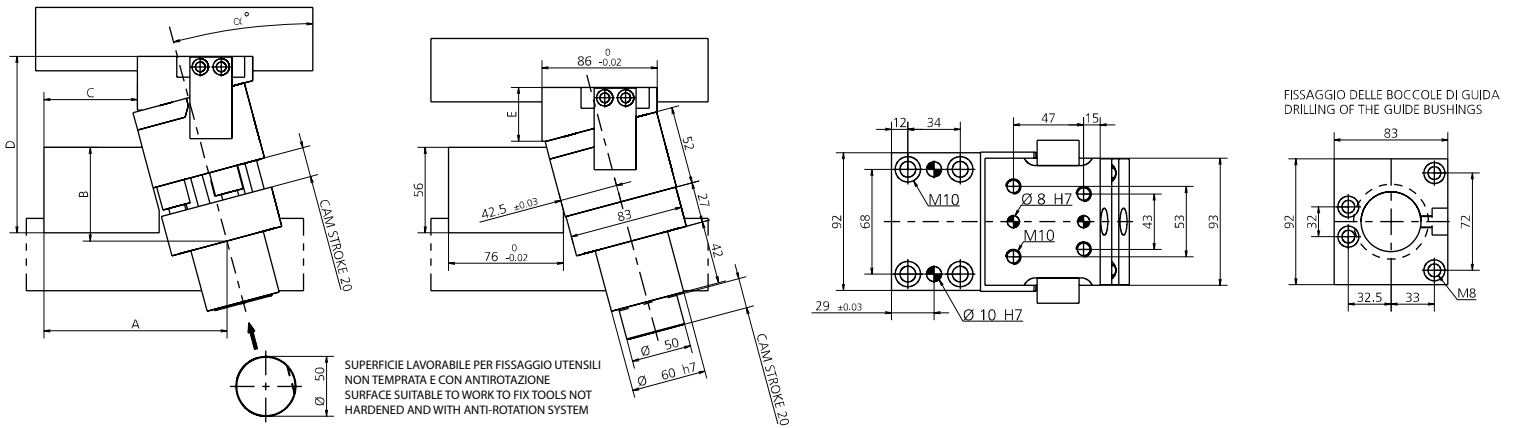
POS.	CODE	DESCRIPTION	Q.TY
001	8018.1000.0000.500.001	PERNO CENTRALE / CENTRAL PIN / HAUPTSTIFT	1
002	8013.0690.0600.500.001	BOCCOLA DI GUIDA / GUIDE BUSHINGS / FÜHRUNGSBUCHSE	1
003	8014.0051.0605	PORTA PUNZONE / PUNCHES HOLDER / TRÄGERPLATTE	1
004	8115.4851.0605.05.001	STAFFA DI AGGANCIAMENTO / BRACKET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

POS.	CODE	DESCRIPTION	Q.TY
005	8115.4851.0605.50.002	STAFFA DI AGGANCIAMENTO / 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 COLLETTA / 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 **680 daN** SFORZO MAX TRANCIO **8000 daN**
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1030 daN** CUTTING MAX FORCE
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION MAXIMALE SCHNITTKRAFT
 EFFORT MAXI DÉCOUPE



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 TECNICONESTARK / * FOR NON-STANDARD INCLINATIONS, PLEASE CONTACT NEWSTARK TECHNICAL OFFICE.
 / * FÜR NICHT STANDARDMÄSSIGE NEIGUNGEN WENDEN SIE SICH BITTE AN DAS TECHNISCHE BÜRO VON NEWSTARK

014 (9003) SENSORE / SENSOR / SENSOR



14 PATENT PENDING

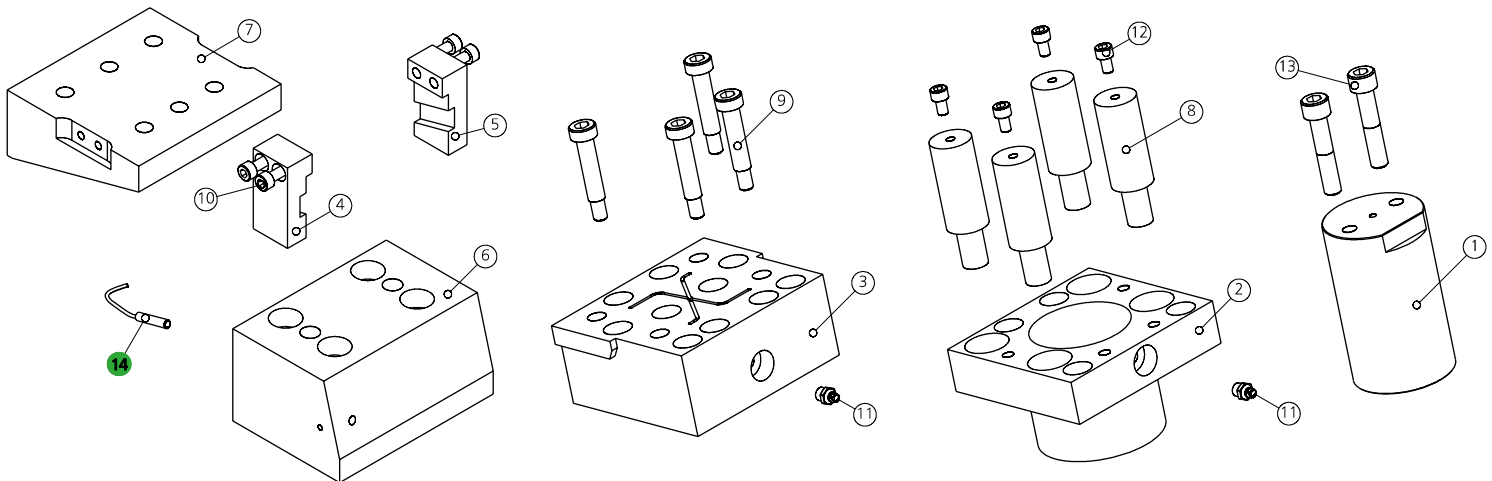
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

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

0151.1206 - CAM SUPER-SMEG1206

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

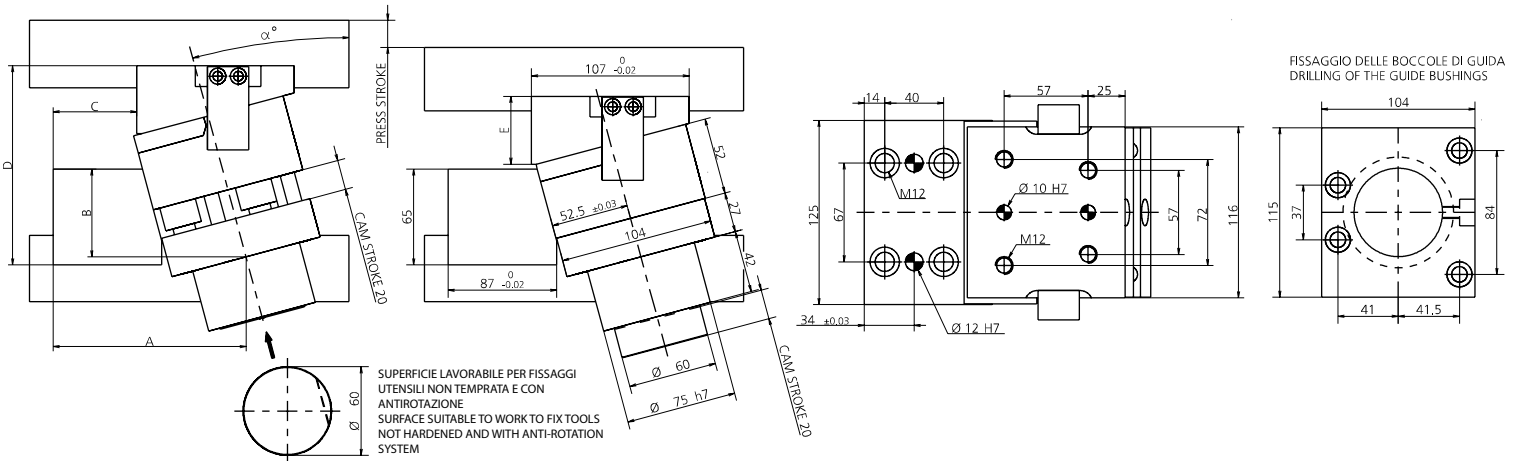
SFORZO MAX TRANCIO **12000 daN**
 CUTTING MAX FORCE
 MAXIMALE SCHNITTKRAFT
 EFFORT MAXI DÉCOUPE



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

POS.	CODE	DESCRIPTION	Q.TY
005	8115.4851.1106.50.002	STAFFA DI AGGANCIAMENTO / 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 COLLETO / 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

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



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 TECNICONESTARK / * FOR NON-STANDARD INCLINATIONS, PLEASE CONTACT NEWSTARK TECHNICAL OFFICE.
 / * FÜR NICHT STANDARDMÄSSIGE NEIGUNGEN WENDEN SIE SICH BITTE AN DAS TECHNISCHE BÜRO VON NEWSTARK

014 (9003) SENSORE / SENSOR / SENSOR

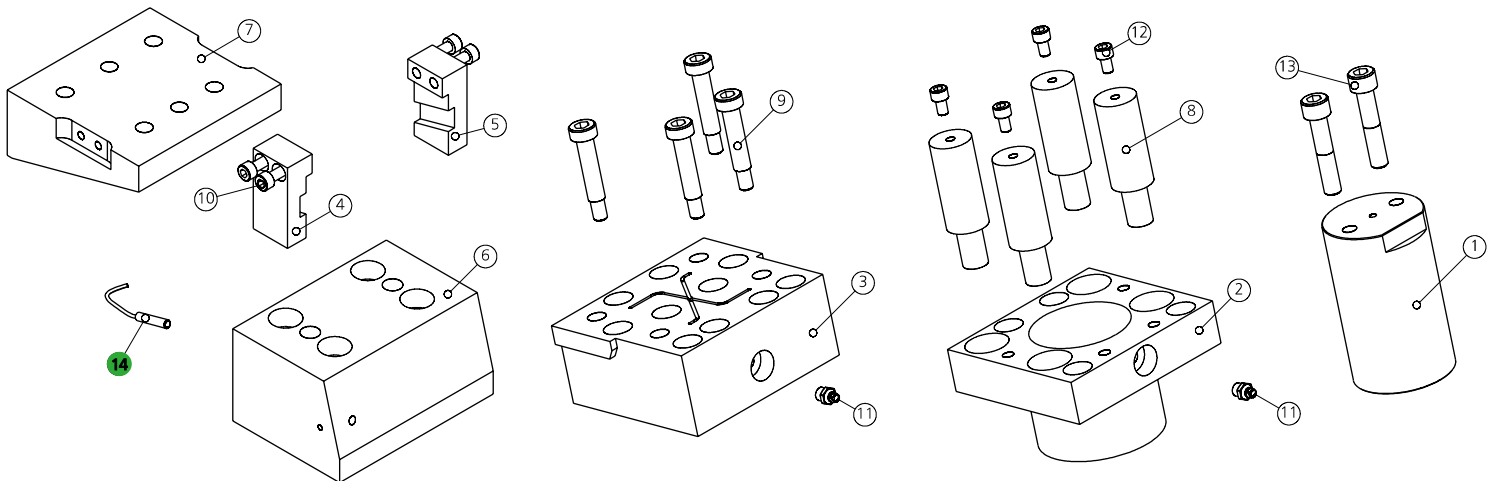


14 PATENT PENDING

0151.1207 - CAM SUPER-SMEG1207

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

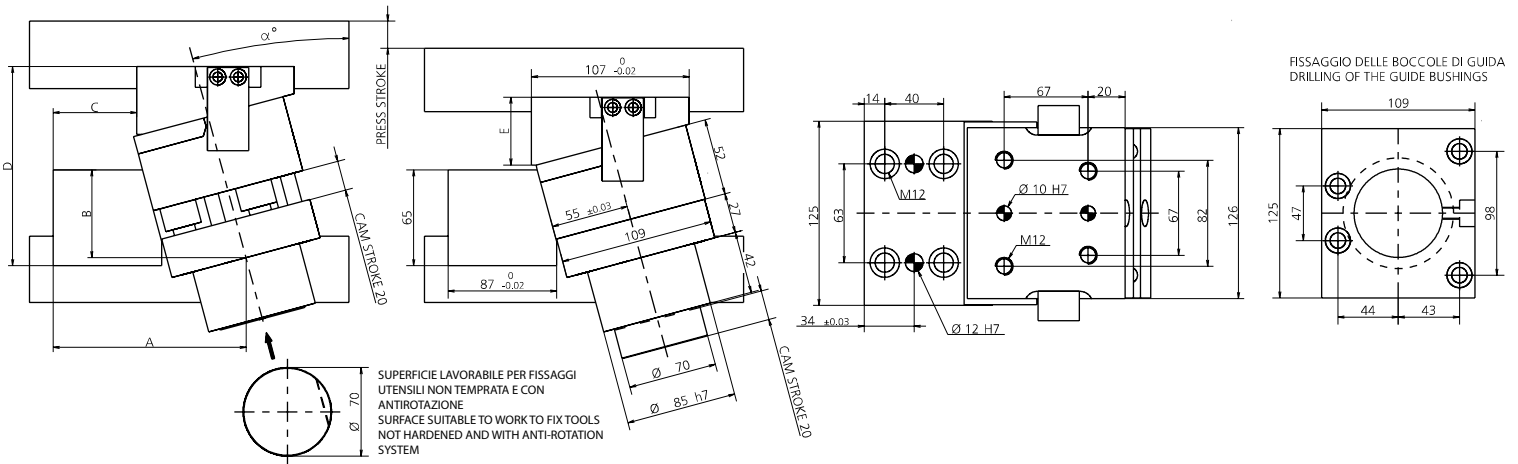
SFORZO MAX TRANCIO **15000 daN**
 CUTTING MAX FORCE
 MAXIMALE SCHNITTKRAFT
 EFFORT MAXI DÉCOUPE



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

POS.	CODE	DESCRIPTION	Q.TY
005	8115.4851.1307.50.002	STAFFA DI AGGANCIAMENTO / 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 COLLETO / 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

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **1280 daN** SFORZO MAX TRANCIO **15000 daN**
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION
 CUTTING MAX FORCE
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1925 daN** MAXIMALE SCHNITTKRAFT
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION 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 TECNICONESTARK / * FOR NON-STANDARD INCLINATIONS, PLEASE CONTACT NEWSTARK TECHNICAL OFFICE.
 / * FÜR NICHT STANDARDMÄSSIGE NEIGUNGEN WENDEN SIE SICH BITTE AN DAS TECHNISCHE BÜRO VON NEWSTARK

014 (9003) SENSORE / SENSOR / SENSOR



14 PATENT PENDING

0151.2008 - CAM SUPER-SMEG2008

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

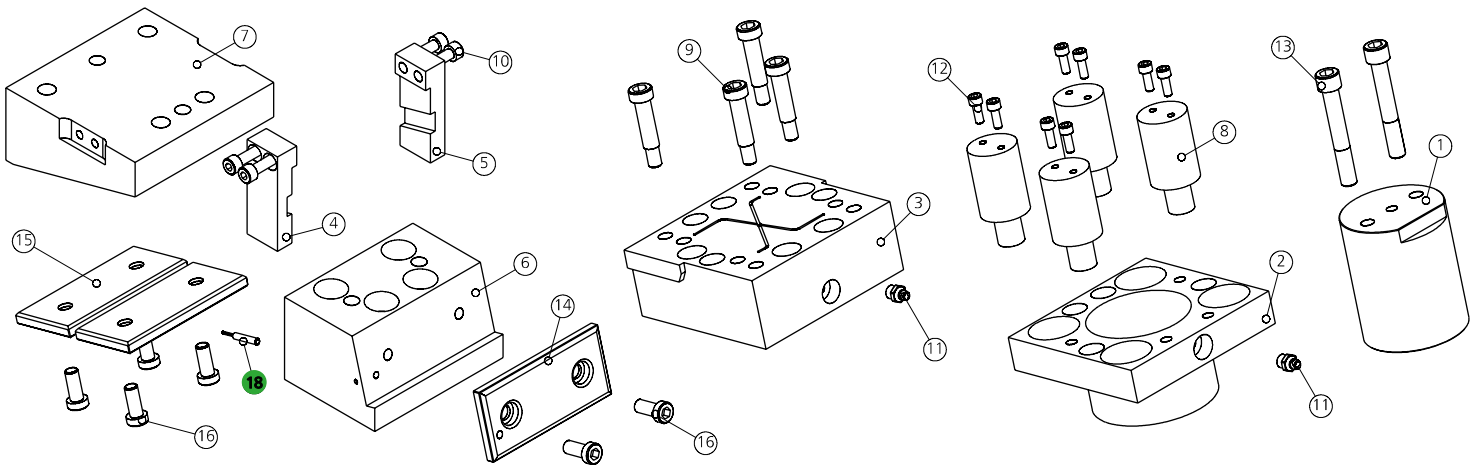
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

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

ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **20000 daN**

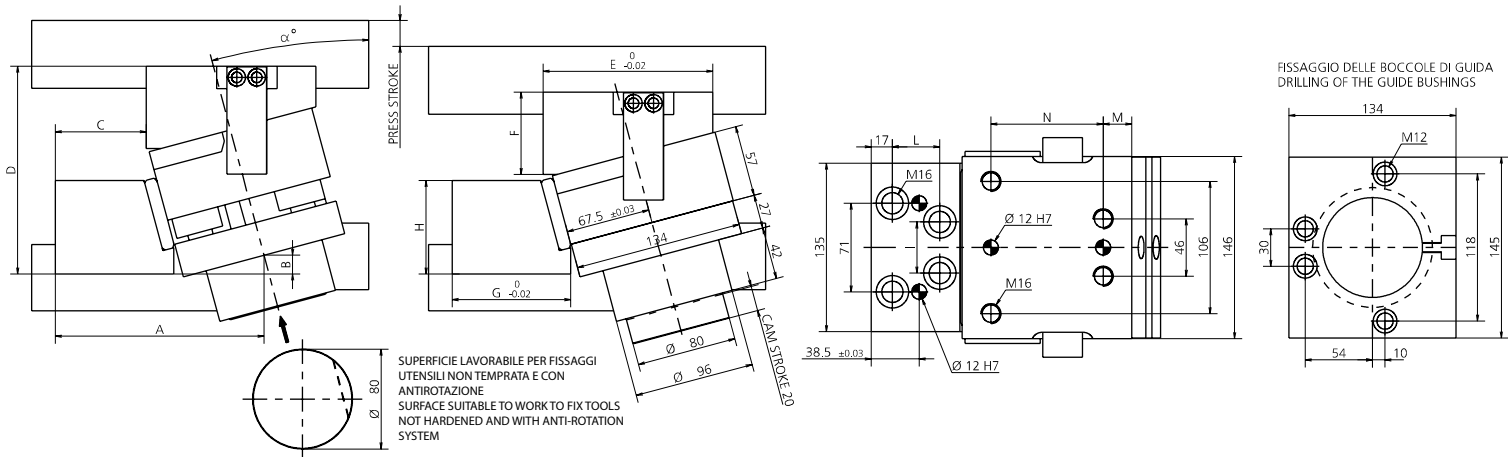
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



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

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



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 TECNICONESTARK / * FOR NON-STANDARD INCLINATIONS, PLEASE CONTACT NEWSTARK TECHNICAL OFFICE.
 / * FÜR NICHT STANDARDMÄSSIGE NEIGUNGEN WENDEN SIE SICH BITTE AN DAS TECHNISCHE BÜRO VON NEWSTARK

018 (9003) SENSORE / SENSOR / SENSOR



18 PATENT PENDING

0151.3011 - CAM SUPER-SMEG3011

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

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

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

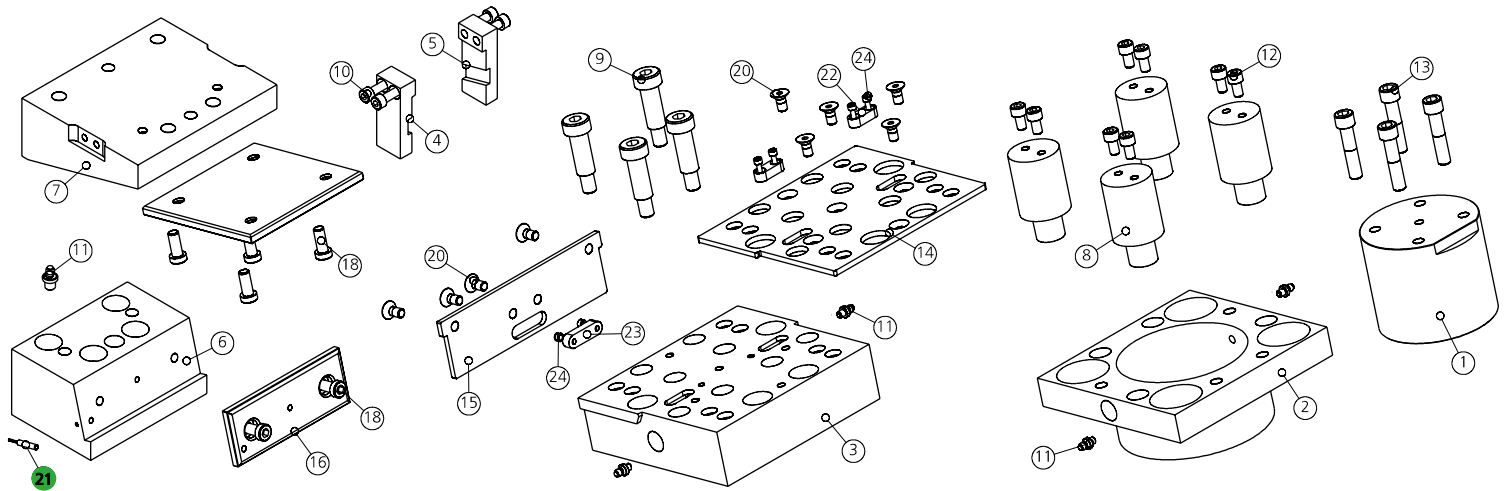
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **30000 daN**

CUTTING MAX FORCE

MAXIMALE SCHNITTKRAFT

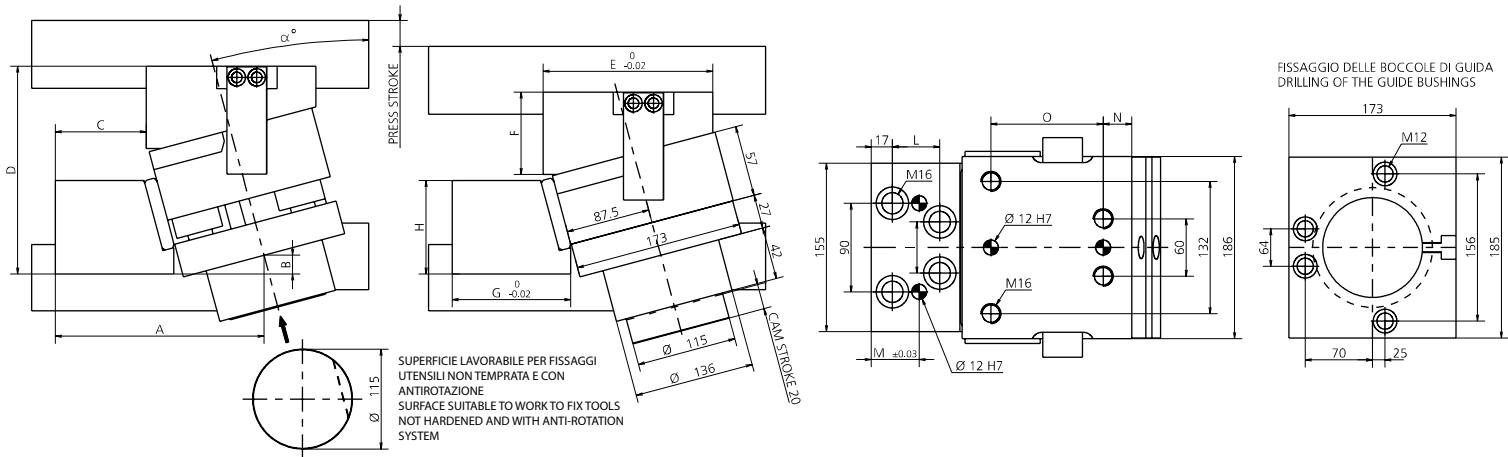
EFFORT MAXI DÉCOUPE



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

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



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 TECNICONESTARK / * FOR NON-STANDARD INCLINATIONS, PLEASE CONTACT NEWSTARK TECHNICAL OFFICE.
 / * FÜR NICHT STANDARDMÄSSIGE NEIGUNGEN WENDEN SIE SICH BITTE AN DAS TECHNISCHE BÜRO VON NEWSTARK

021 (9003) SENSORE / SENSOR / SENSOR



21 PATENT PENDING

0151.4815 - CAM SUPER-SMEG4815

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

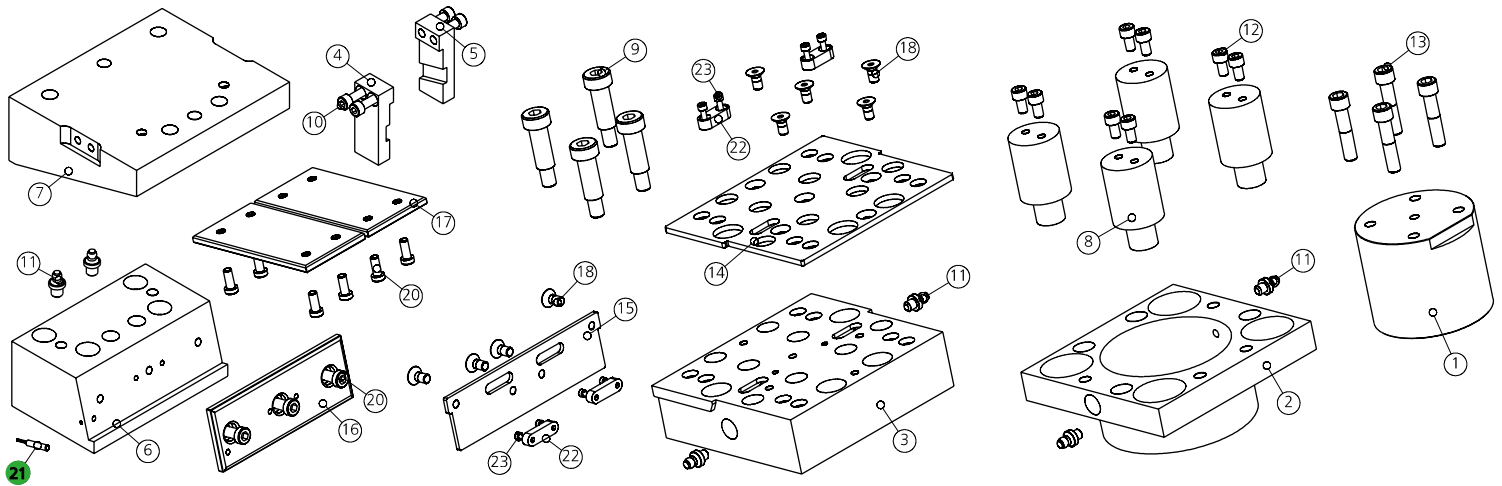
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

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

ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **45000 daN**

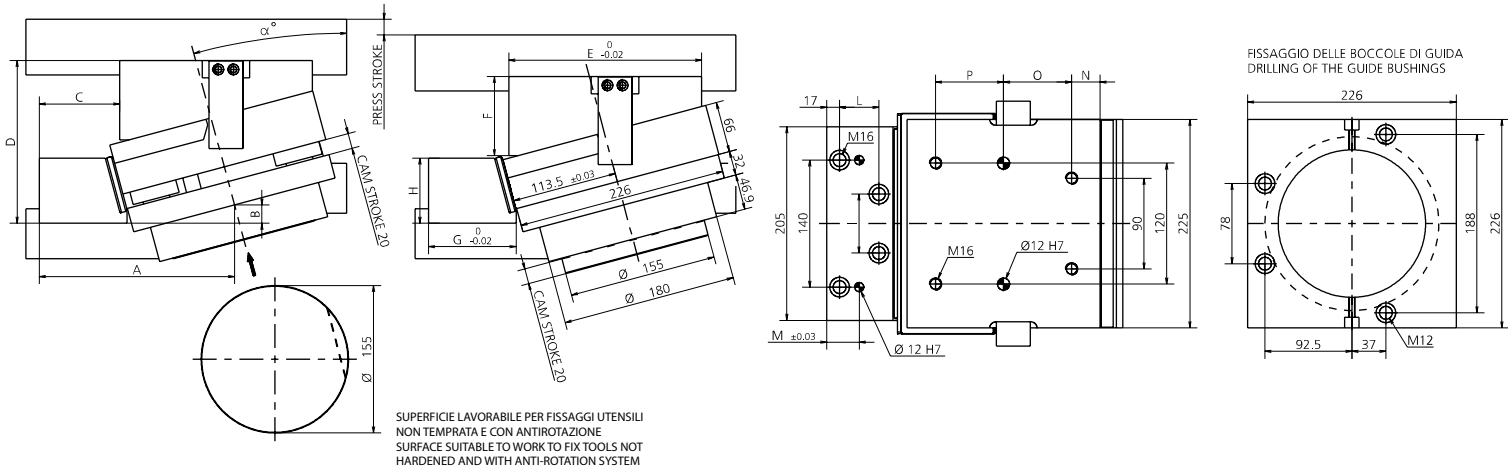
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



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

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



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 TECNICONESTARK / * FOR NON-STANDARD INCLINATIONS, PLEASE CONTACT NEWSTARK TECHNICAL OFFICE.
 / * FÜR NICHT STANDARDMÄSSIGE NEIGUNGEN WENDEN SIE SICH BITTE AN DAS TECHNISCHE BÜRO VON NEWSTARK

021 (9003) SENSORE / SENSOR / SENSOR



21 PATENT PENDING

0151.6019 - CAM SUPER-SMEG6019

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

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

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

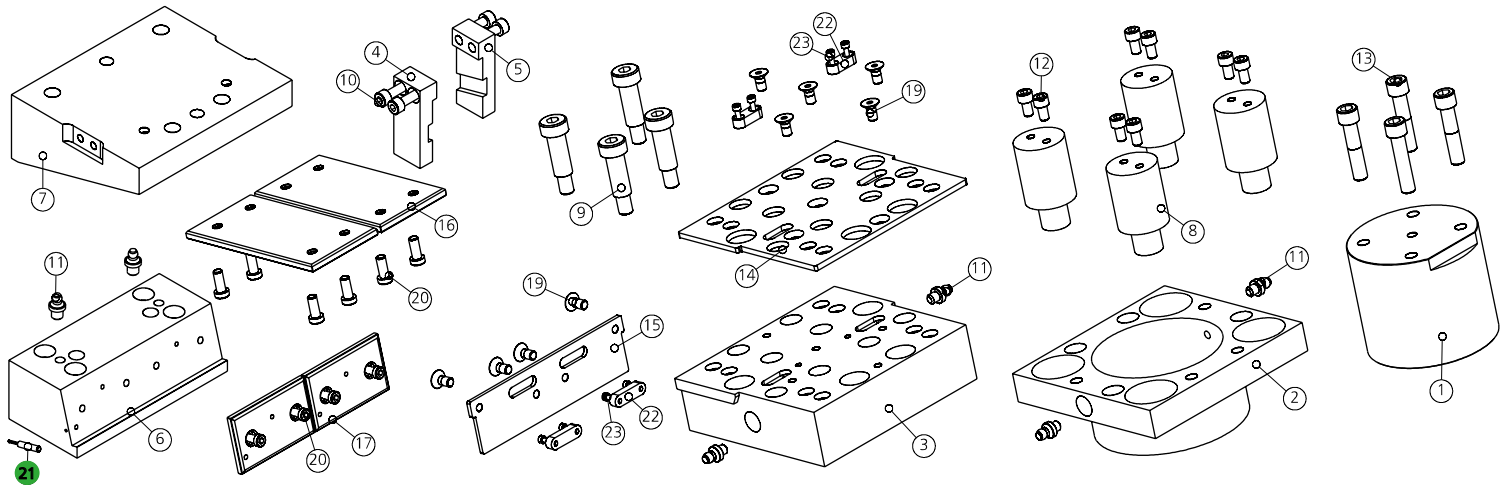
ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **60000 daN**

CUTTING MAX FORCE

MAXIMALE SCHNITTKRAFT

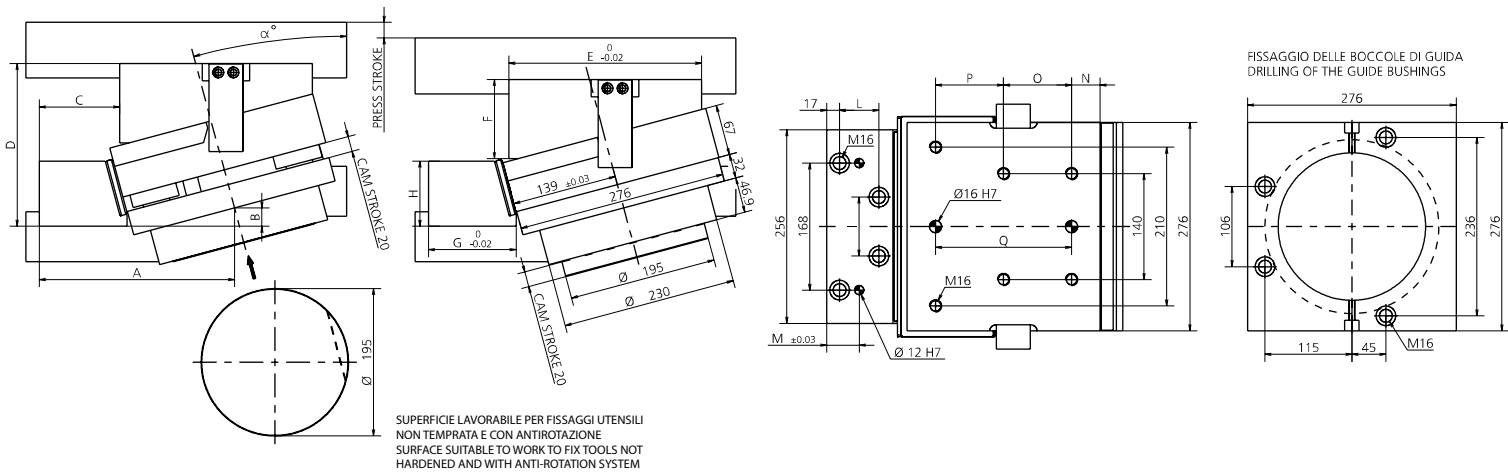
EFFORT MAXI DÉCOUPE



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

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **6000 daN** SFORZO MAX TRANCIO **60000 daN**
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **9400 daN** CUTTING MAX FORCE
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION MAXIMALE SCHNITTKRAFT
 EFFORT MAXI DÉCOUPE



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 TECNICONESTARK / * FOR NON-STANDARD INCLINATIONS, PLEASE CONTACT NEWSTARK TECHNICAL OFFICE.
 / * FÜR NICHT STANDARDMÄSSIGE NEIGUNGEN WENDEN SIE SICH BITTE AN DAS TECHNISCHE BÜRO VON NEWSTARK

021 (9003) SENSORE / SENSOR / SENSOR



21 PATENT PENDING



CAM M/ML

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



PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE



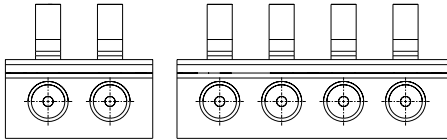
M



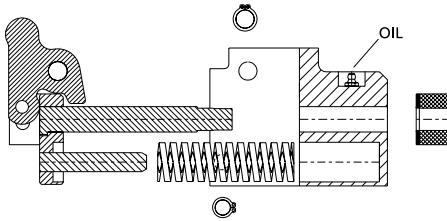
ML

CAM M/ML

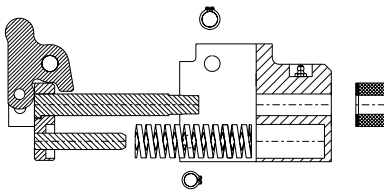
ESEMPI DI APPLICAZIONI SPECIALI / EXAMPLES OF SPECIAL APPLICATIONS / BEISPIELE FÜR SPEZIELLE ANWENDUNGEN
EXEMPLE D'APPLICATIONS SPÉCIALES



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



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



- IT**
1. Togliere porta punzone e punzone rimuovendo i seeger come indicato.
 2. Eseguire le verifiche.
 3. Rimontare con cura, lubrificando con grasso bisolfuro di Molibdeno (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).

- DE**
1. Seegering und Bolzen entfernen um die Stempelhalterplatte und den Stempel herauszuziehen.
 2. Komponenten prüfen.
 3. Montage in umgekehrter Reihenfolge unter Verwendung von Molybdändisulfidfett (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.

- 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).

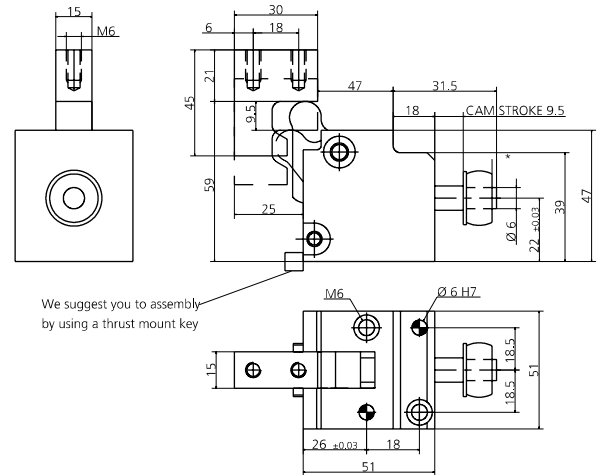
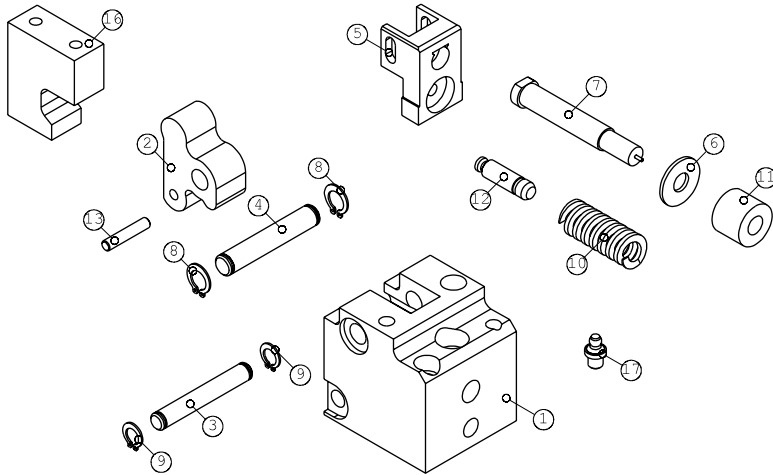
- FR**
1. Retirer le porte-poinçon et le poinçon en retirant le circlip comme indiqué.
 2. Effectuer les contrôles.
 3. Remonter soigneusement, en lubrifiant avec de la graisse au bisulfure de molybdène (MoS₂). Newstark recommande l'utilisation de cette graisse.
 4. S'assurer que les différents éléments sont correctement repositionnés. Lubrifier avec de la graisse au bisulfure de molybdène (MoS₂).

0140.0170 - CAM M170

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

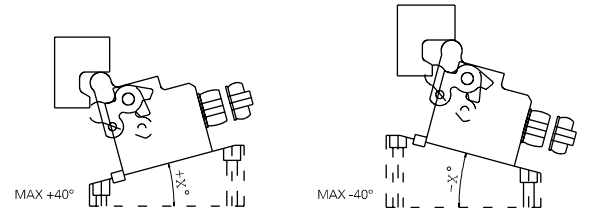
SFORZO MAX TRANCIO **1000 daN**
 CUTTING MAX FORCE
 MAXIMALE SCHNITTKRAFT
 EFFORT MAXI DÉCOUPE

* MAX 30% LUNGHEZZA LIBERA

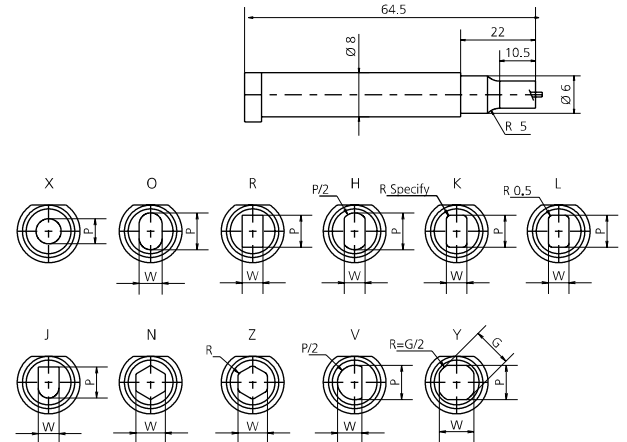


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0040.0170	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8001.4041.0170.000	LEVA / LEVER / NOCKE 0	1
002	8001.4041.0170.620	LEVA / LEVER / NOCKE +0.01 +20	1*OPTION
002	8001.4041.0170.640	LEVA / LEVER / NOCKE +20.01 +40	1*OPTION
002	8001.4041.0170.720	LEVA / LEVER / NOCKE -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 / UNTERLEGSCHIEBE	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	MIX_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	INCLUDINE / 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

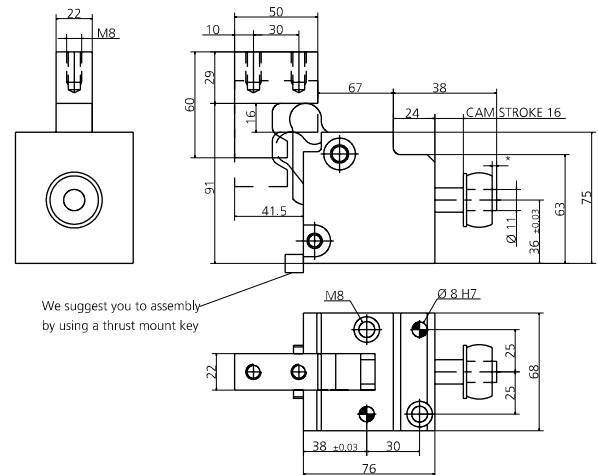
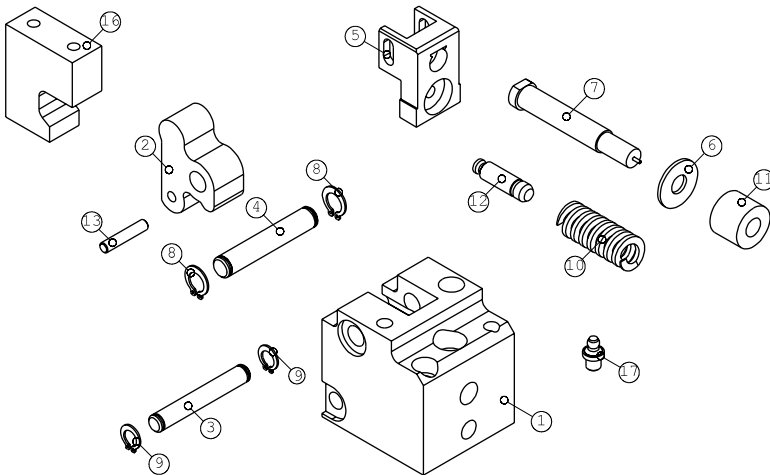
MODEL **0140.0170** INCLINATION **+10°** OPTION CODE **8001.4041.0170.620**

0140.0210 - CAM M210

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

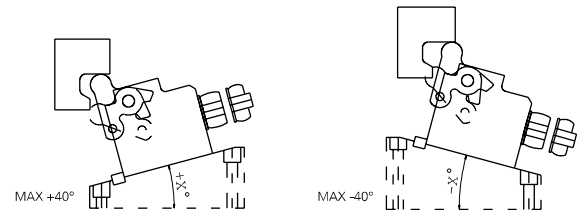
SFORZO MAX TRANCIO **3000 daN**
 CUTTING MAX FORCE
 MAXIMALE SCHNITTKRAFT
 EFFORT MAXI DÉCOUPE

* MAX 30% LUNGHEZZA LIBERA

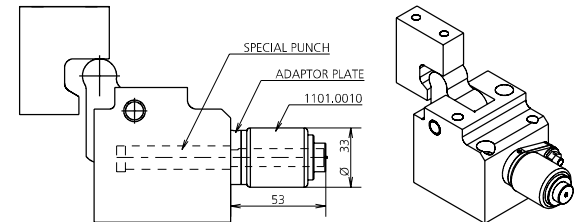


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0040.0210	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8001.4041.0210.000	LEVA / LEVER / NOCKE 0	1
002	8001.4041.0210.620	LEVA / LEVER / NOCKE +0.01 +20	1*OPTION
002	8001.4041.0210.640	LEVA / LEVER / NOCKE +20.01 +40	1*OPTION
002	8001.4041.0210.720	LEVA / LEVER / NOCKE -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 / STEMPHALTEPLATTE	1
006	8006.0020.0280.111.001	RONDELLA / WASHER / UNTERLEGSCHIBE	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	SEGER / SEGER / SEEGERRING	2
009	9004.1100.001	SEGER / SEGER / 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

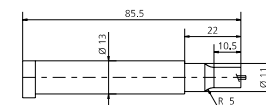


8124.0140.0210 KIT ADATTAMENTO STARK STRIPPER / STARK-STRIP ADAPTION KIT / STARK-STRIP ADAPTIONSSATZ

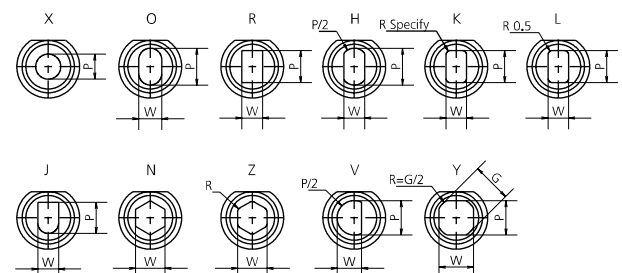
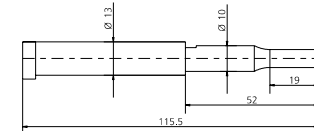


Il kit comprende il punzone, la piastrina di adattamento e le viti di fissaggio.
 Lo stark-stripper va ordinato a parte (vedi la sezione del catalogo dedicata)
 The kit includes the punch, the adapter plate and the fixing screws.
 The stark-stripper must be ordered separately (see the dedicated catalog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

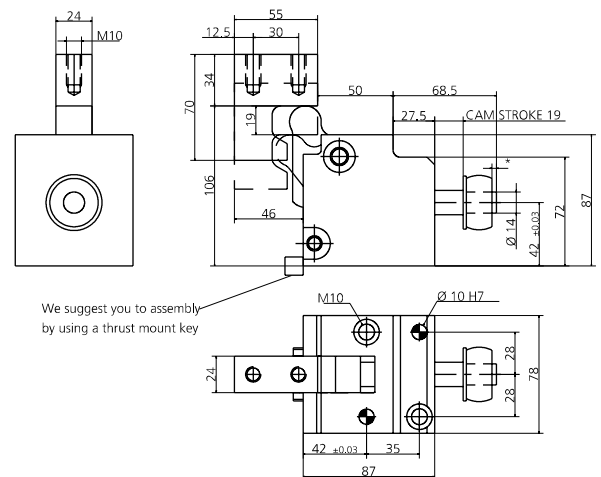
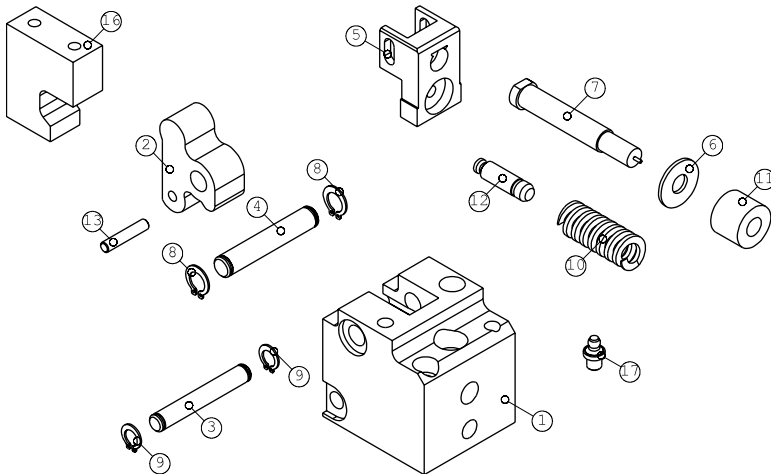
MODEL **0140.0210** INCLINAZIONE **+10°** OPTION CODE **8001.4041.0210.620**

0140.0320 - CAM M320

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

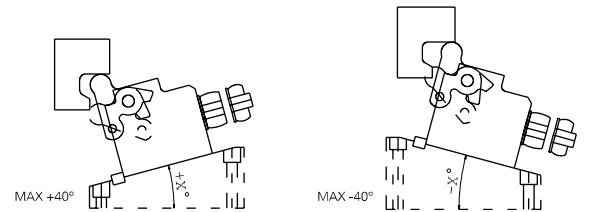
SFORZO MAX TRANCIO **5000 daN**
 CUTTING MAX FORCE
 MAXIMALE SCHNITTKRAFT
 EFFORT MAXI DÉCOUPE

* MAX 30% LUNGHEZZA LIBERA

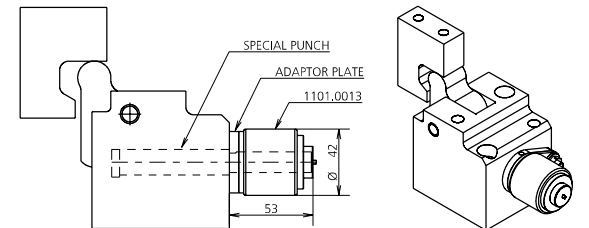


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0040.0320	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8001.4041.0320.000	LEVA / LEVER / NOCKE 0	1
002	8001.4041.0320.620	LEVA / LEVER / NOCKE +0.01 +20	1*OPTION
002	8001.4041.0320.640	LEVA / LEVER / NOCKE +20.01 +40	1*OPTION
002	8001.4041.0320.720	LEVA / LEVER / NOCKE -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 / UNTERLEGSCHIBE	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	MIX_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	INCLUDINE / ANVIL / TREIBER	1*OPTION
017	9006.002	INGRASSATORE / NIPPLE / SCHMIERUNG	1

002 (8001) LEVA / LEVER / NOCKE

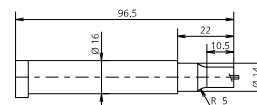


8124.0140.0320 KIT ADATTAMENTO STARK STRIPPER / STARK-STRIP ADAPTION KIT / STARK-STRIP ADAPTIONSSATZ

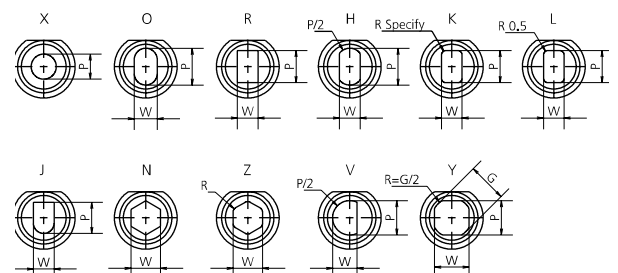
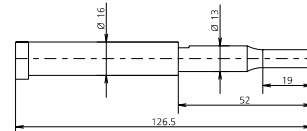


Il kit comprende il punzone, la piastrina di adattamento e le viti di fissaggio.
 Lo stark-stripper va ordinato a parte (vedi la sezione del catalogo dedicata)
 The kit includes the punch, the adapter plate and the fixing screws.
 The stark-stripper must be ordered separately (see the dedicated catalog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

SFORZO MAX TRANCIO

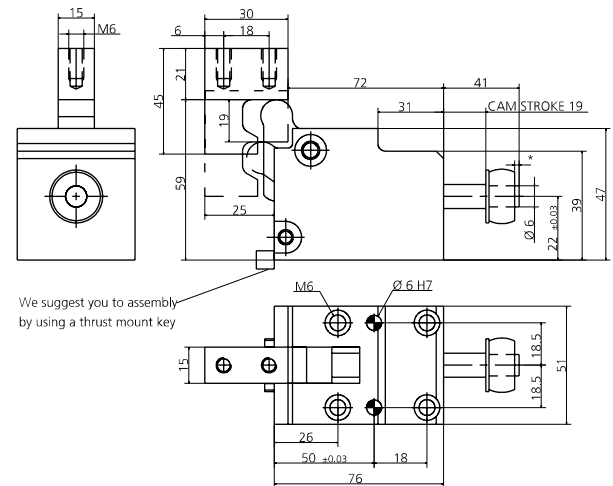
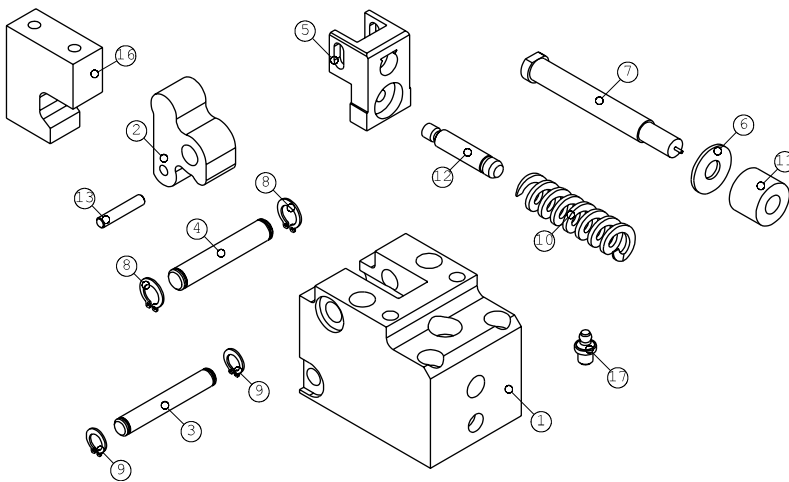
1000 daN

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

170 daN

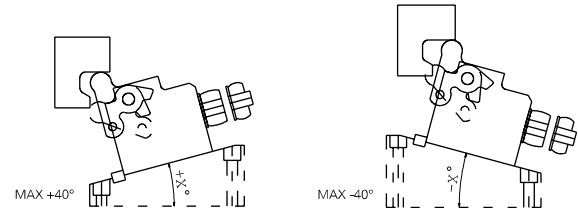
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE

* MAX 30% LUNGHEZZA LIBERA

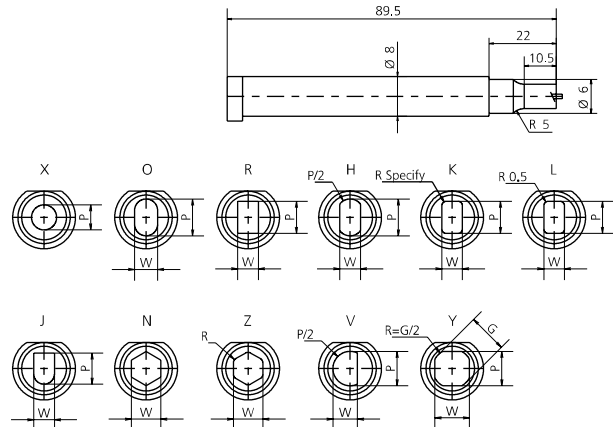


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0041.0170	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8001.4041.0170.000	LEVA / LEVER / NOCKE 0	1
002	8001.4041.0170.620	LEVA / LEVER / NOCKE +0.01 +20	1*OPTION
002	8001.4041.0170.640	LEVA / LEVER / NOCKE +20.01 +40	1*OPTION
002	8001.4041.0170.720	LEVA / LEVER / NOCKE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

002 (8001) LEVA / LEVER / NOCKE



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



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

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

0141.0210 - CAM ML210

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE

40 daN

SFORZO MAX TRANCIO

3000 daN

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

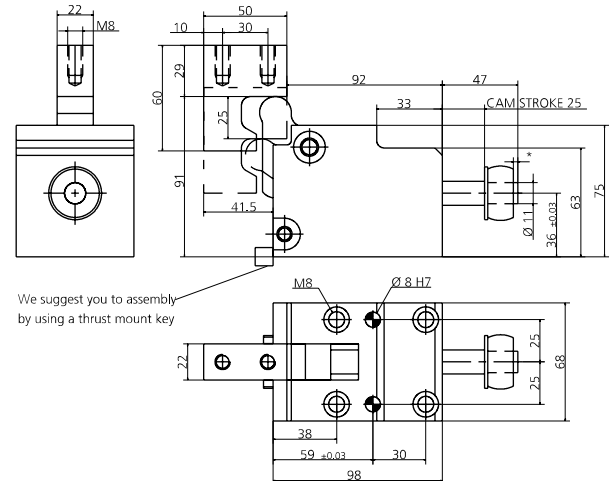
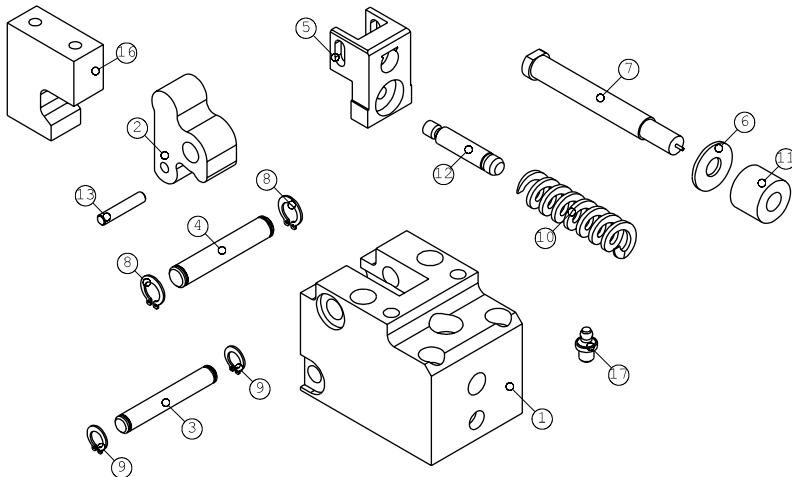
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION

210 daN

CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE

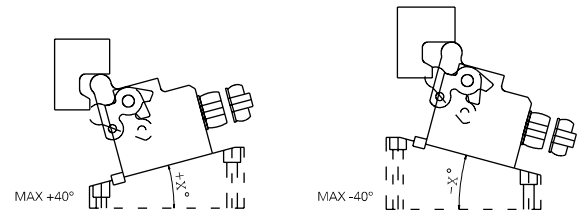
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

* MAX 30% LUNGHEZZA LIBERA

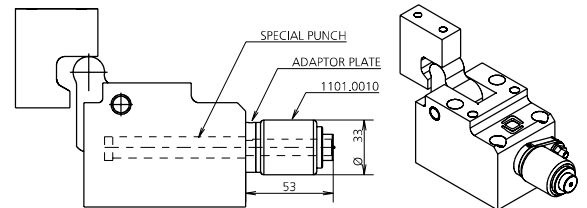


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0041.0210	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8001.4041.0210.000	LEVA / LEVER / NOCKE 0	1
002	8001.4041.0210.620	LEVA / LEVER / NOCKE +0.01 +20	1*OPTION
002	8001.4041.0210.640	LEVA / LEVER / NOCKE +20.01 +40	1*OPTION
002	8001.4041.0210.720	LEVA / LEVER / NOCKE -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 / UNTERLEGSCHIEBE	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	MIX_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	INCLUDINE / ANVIL / TREIBER	1*OPTION
017	9006.002	INGRASSATORE / NIPPLE / SCHMIERUNG	1

002 (8001) LEVA / LEVER / NOCKE

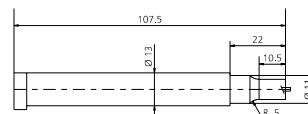


8124.0141.0210 KIT ADATTAMENTO STARK STRIPPER / STARK-STRIP ADAPTION KIT / STARK-STRIP ADAPTIONSSATZ

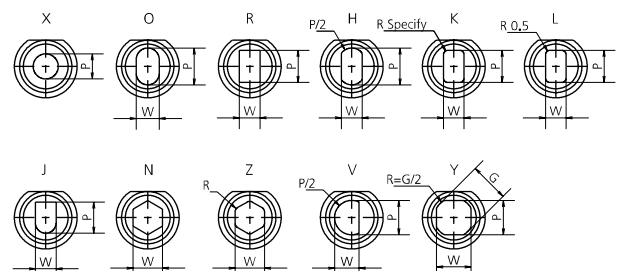
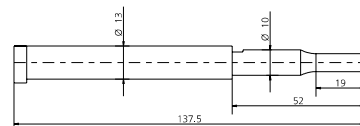


Il kit comprende il punzone, la piastrina di adattamento e le viti di fissaggio.
Lo stark-stripper va ordinato a parte (vedi la sezione del catalogo dedicata)
The kit includes the punch, the adapter plate and the fixing screws.
The stark-stripper must be ordered separately (see the dedicated catalog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

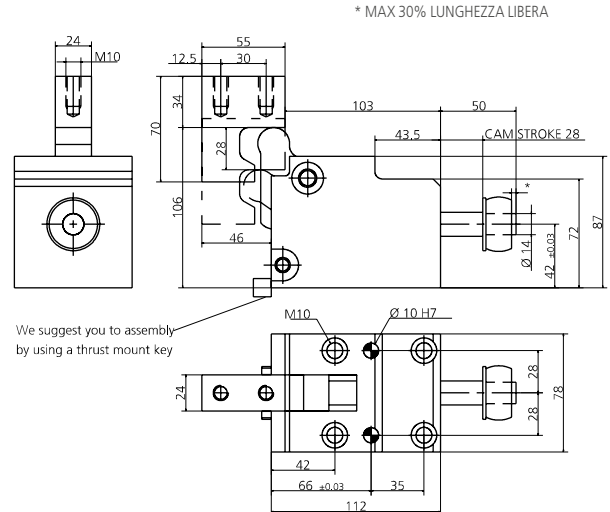
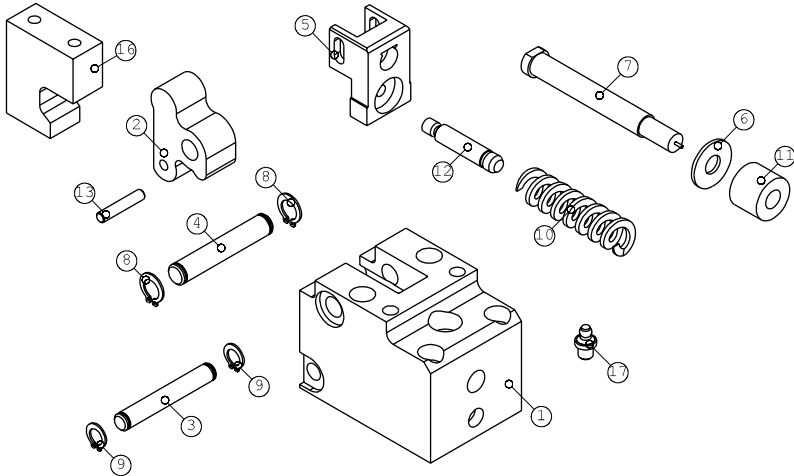


MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

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

0141.0320 - CAM ML320

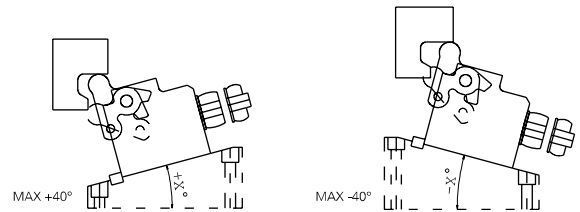
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **70 daN** SFORZO MAX TRANCIO **5000 daN**
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION
 CUTTING MAX FORCE
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **320 daN** MAXIMALE SCHNITTKRAFT
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION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



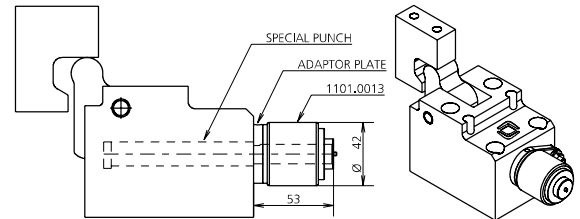
We suggest you to assembly by using a thrust mount key

POS.	CODE	DESCRIPTION	Q.TY
001	8000.0041.0320	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 / STEMPHALTEPLATTE	1
006	8006.0020.0350.141.001	RONDELLA / WASHER / UNTERLEGSCHIEBE	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 16 121.5	1*OPTION
008	9004.1120.001	SEGER / SEEGER / SEEGERRING	2
009	9004.1100.001	SEGER / 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

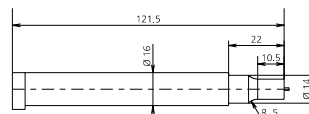


8124.0141.0320 KIT ADATTAMENTO STARK STRIPPER / STARK-STRIP ADAPTION KIT / STARK-STRIP ADAPTIONSSATZ

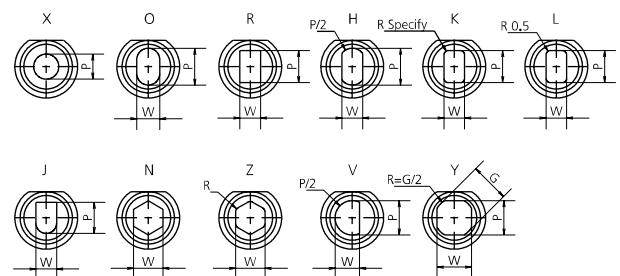
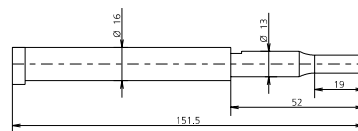


Il kit comprende il punzone, la piastrina di adattamento e le viti di fissaggio.
 Lo stark-stripper va ordinato a parte (vedi la sezione del catalogo dedicata)
 The kit includes the punch, the adaptor plate and the fixing screws.
 The stark-stripper must be ordered separately (see the dedicated catalog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

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



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



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

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



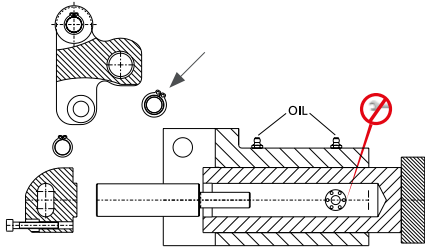
CAM MA

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



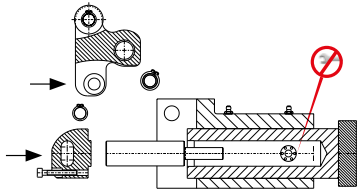
PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE





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

SMONTAGGIO PRODOTTO 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 reassembly or maintenance work only when the cam unit is in its basic position.

1. Take off the gas cylinder by removing the seegers and the screws as shown.
2. Check the components.
3. Reassemble carefully using grease with disulfide molybdeno (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 Demontearbeiten nur in Grundstellung der Stanzeinheit vornehmen.

1. Seegering und Schrauben entfernen um die Gasdruckfeder herauszuziehen.
2. Komponenten prüfen.
3. Montage in umgekehrter Reihenfolge unter Verwendung von Molybdändisulfidfett (MoS₂). Die Verwendung dieses Fett wird durch Newstark empfohlen.
4. Auf richtigen Sitz der einzelnen Komponenten achten. Während des Gebrauches, mit Molybdändisulfidfett (MoS₂) nachschmieren.

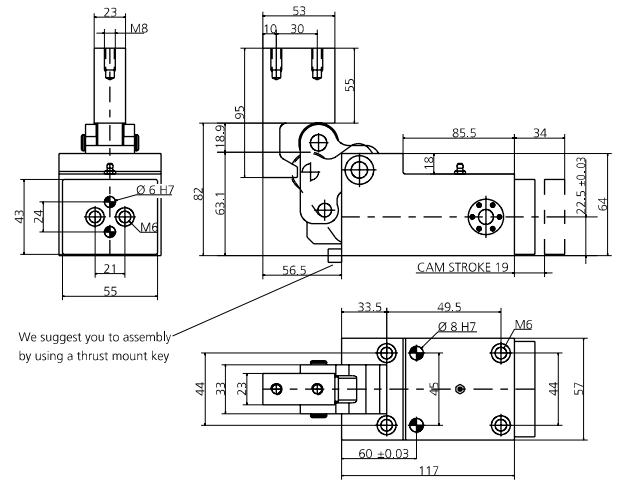
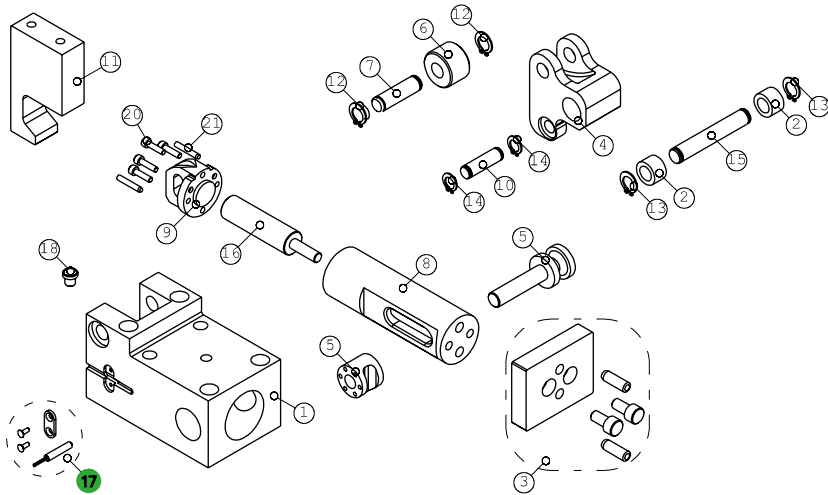
FR **Attention:** S'assurer que la came est dans sa position normale avant d'effectuer des travaux de démontage ou de maintenance.

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

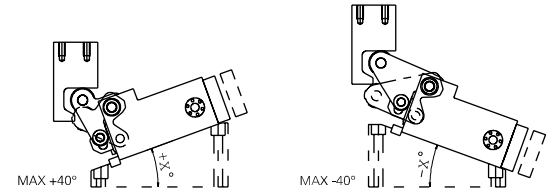
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **100 daN**
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **135 daN**
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

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



POS.	CODE	DESCRIPTION	Q.TY
001	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	INCLUDINE / 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

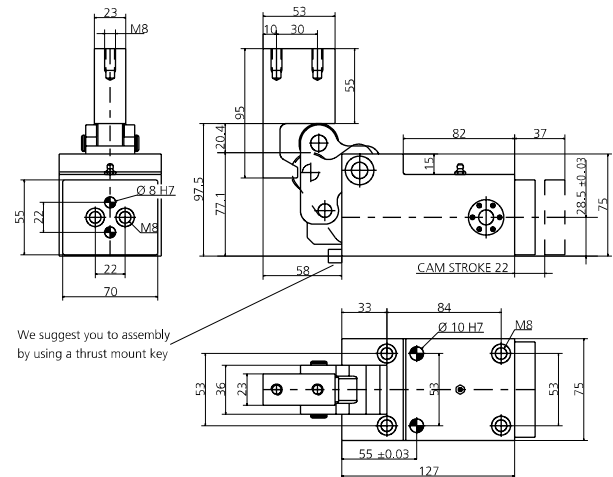
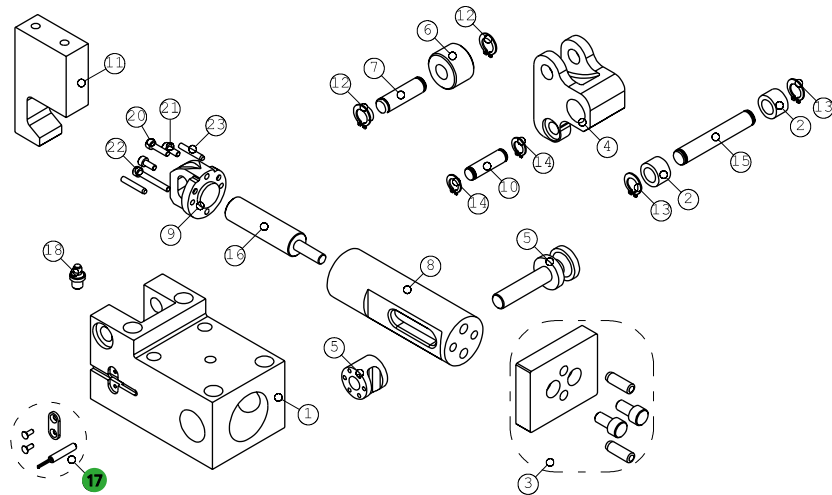
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

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

0142.0150 - CAM MA150

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

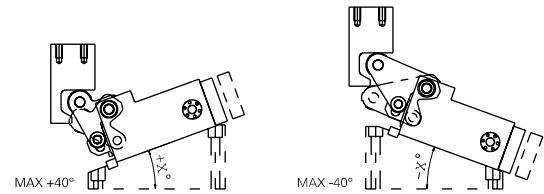
SFORZO MAX TRANCIO **3000 daN**
 CUTTING MAX FORCE
 MAXIMALE SCHNITTKRAFT
 EFFORT MAXI DÉCOUPE



We suggest you to assembly by using a thrust mount key

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 / FÜHRUNGSTIFTE	1
006	8004.0290.0200.120.001	ROTELLA / ROLLER / ROLLE	1
007	8005.0420.0380.120.001	PERNO / PIN / STIFT	1
008	8018.1220.1070.400.001	PERNO CENTRALE / CENTRAL PIN / HAUPTSTIFT	1
009	8002.0042.0150	FLANGIA / FLANGE / FLANSCH	1
010	8005.0356.0330.100.001	PERNO / PIN / STIFT	1
011	8003.0950.0530.230.001	INCUDINE / ANVIL / TREIBER	1*OPTION
012	9004.1120.001	SEEGER / SEEGER / SEEGERRING	2
013	9004.1120.001	SEEGER / SEEGER / SEEGERRING	2
014	9004.1100.001	SEEGER / SEEGER / SEEGERRING	2
015	8005.0740.0700.120.001	PERNO / PIN / STIFT	1
016	9000.0025.0019.001	CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER	1
017	8107.0142.0150.001	KIT SENSORE DI SICUREZZA / SECURITY SENSOR KIT / KIT SENSOR FÜR SICHERHEIT	1*OPTION
018	9006.002	INGRASSATORE / NIPPLE / SCHMIERUNG	1
020	9007.04.010.129.1.4762	VITE / SCREW / SCHRAUBE SCHRAUBE M4X10	1
021	9007.04.008.129.1.4762	VITE / SCREW / SCHRAUBE M4X8	2
022	9007.04.025.129.1.4762	VITE / SCREW / SCHRAUBE M4X25	1
023	9028.040.010.8735	SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D4X10	2

004 (8001) LEVA / LEVER / NOCKE



017 (8107) SENSORE / SENSOR / SENSOR



17 PATENT PENDING

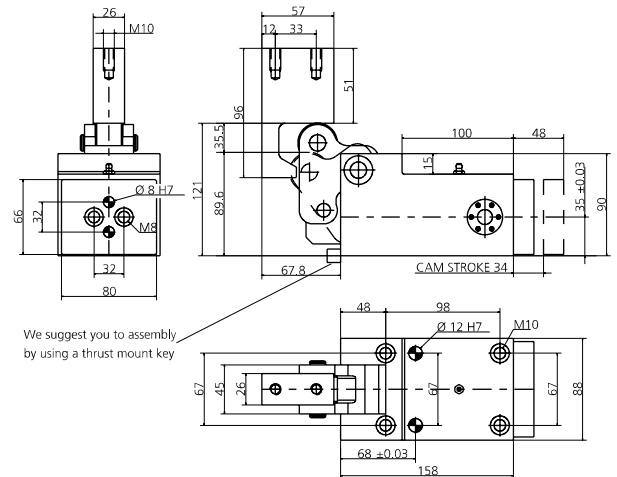
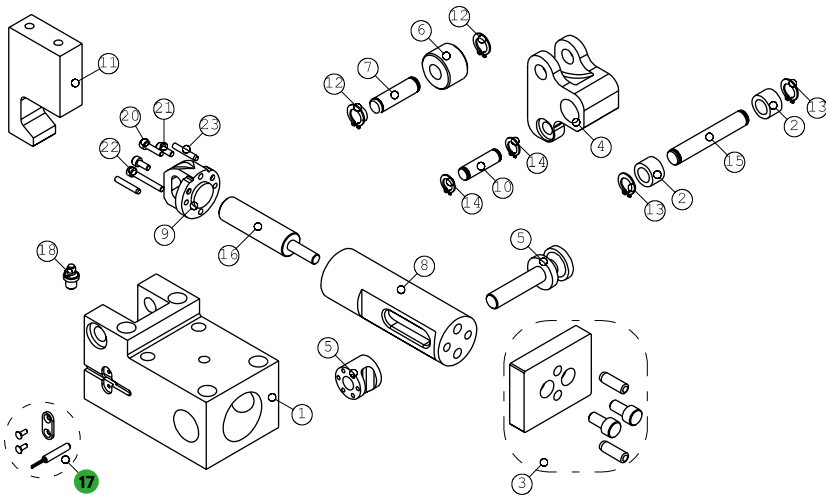
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

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

0142.0240 - CAM MA240

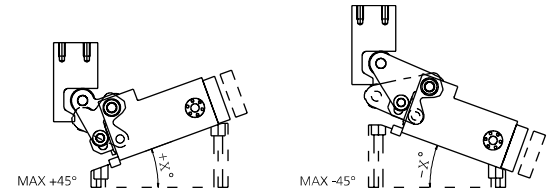
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **240 daN**
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **270 daN**
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

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



POS.	CODE	DESCRIPTION	Q.TY
001	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



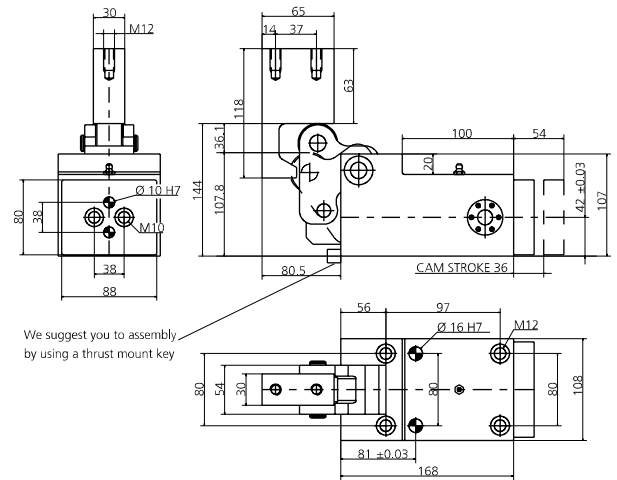
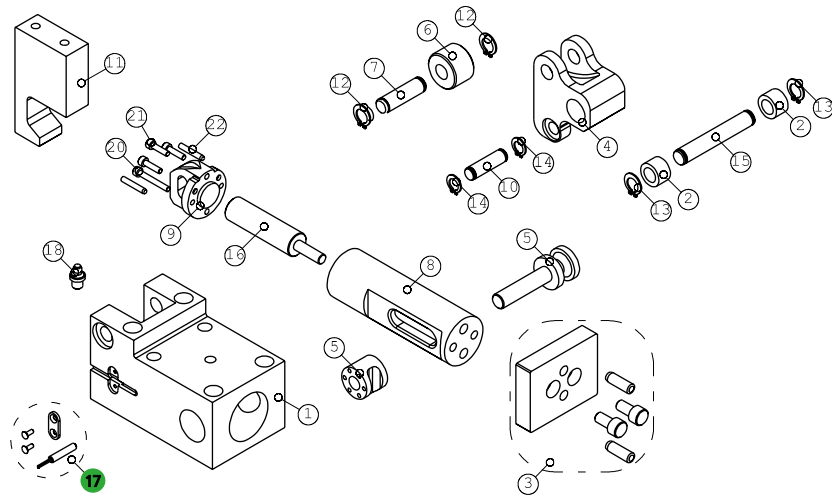
17 PATENT PENDING

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

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

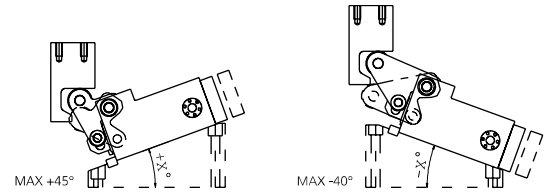
0142.0600 - CAM MA600

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



POS.	CODE	DESCRIPTION	Q.TY
001	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 / FÜHRUNGSTIFTE	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 **850 daN**

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1360 daN**

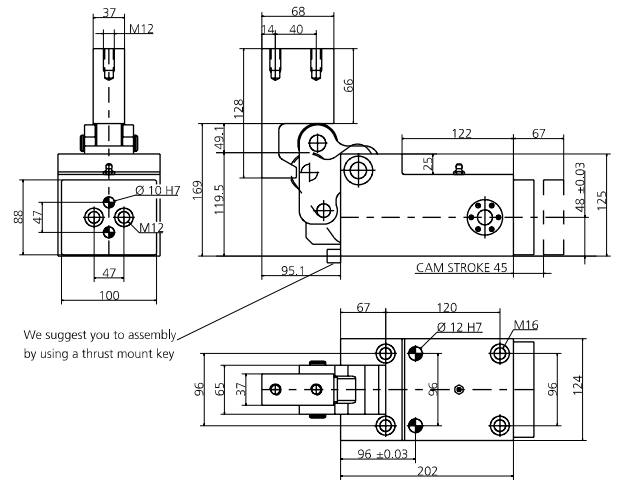
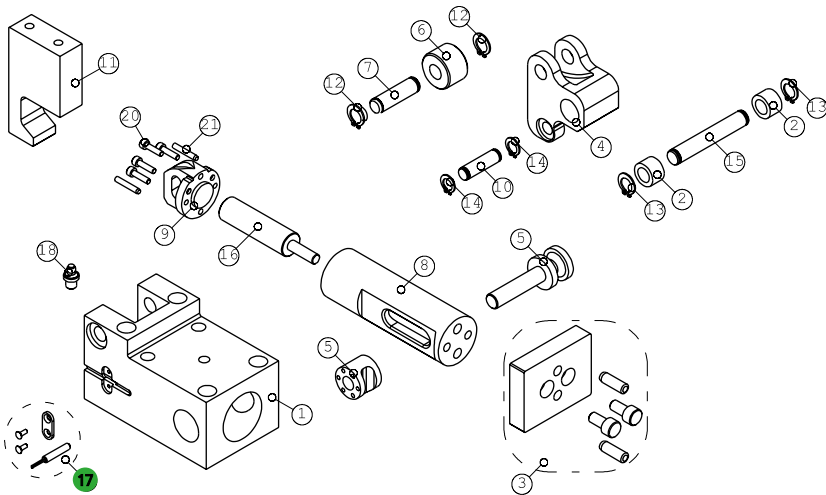
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **10000 daN**

CUTTING MAX FORCE

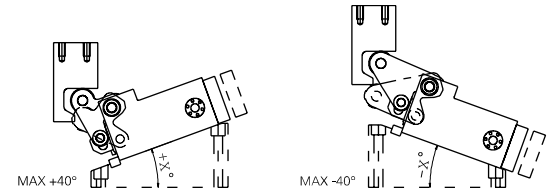
MAXIMALE SCHNITTKRAFT

EFFORT MAXI DÉCOUPE



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



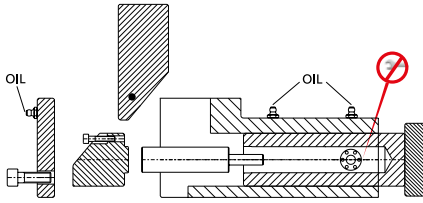
CAM MAS

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



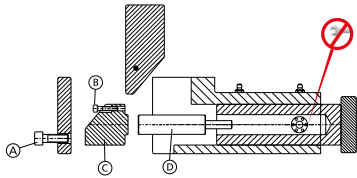
PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE





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

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



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

- IT** **Attenzione:** Assicurarsi che la camma sia nella sua posizione normale prima di eseguire qualsiasi lavoro di smontaggio o manutenzione.
1. Togliere il cilindro a gas rimuovendo le viti "A" come indicato.
 2. Togliere le viti "B", togliere la slitta "C", ed estrarre la molla a gas.
 3. Eseguire le verifiche.
 4. Rimontare con cura lubrificando con grasso bisolfuro di Molibdeno (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 Demontagerbeiten 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 reassembly or maintenance work only when the cam unit is in its basic position.**
1. Take off the gas cylinder by removing the screws "A" as shown.
 2. Take off the gas spring after removing the screws "B" and the slide "C".
 3. Check the components.
 4. Reassemble carefully using grease with disulfide molybdeno (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 **100 daN**

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **135 daN**

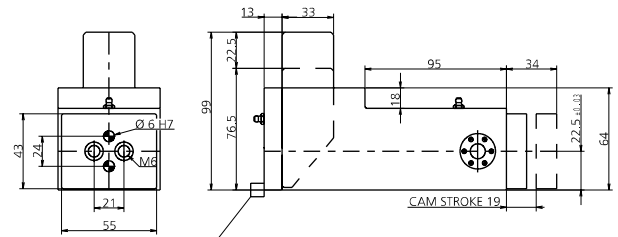
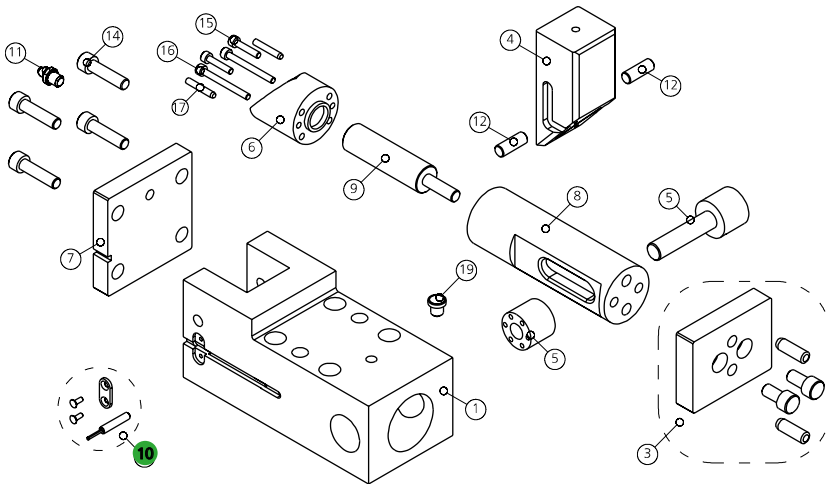
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **3000 daN**

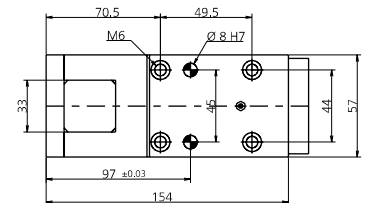
CUTTING MAX FORCE

MAXIMALE SCHNITTKRAFT

EFFORT MAXI DÉCOUPE

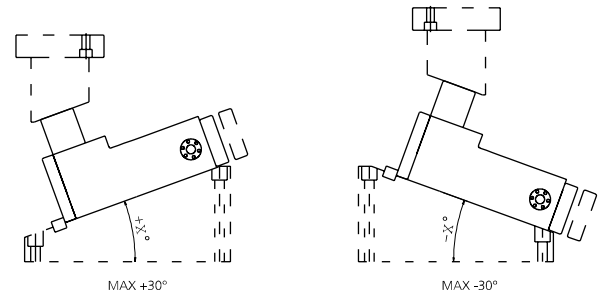


We suggest you to assembly by using a thrust mount key



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**

0144.0240 - CAM MAS240

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

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

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

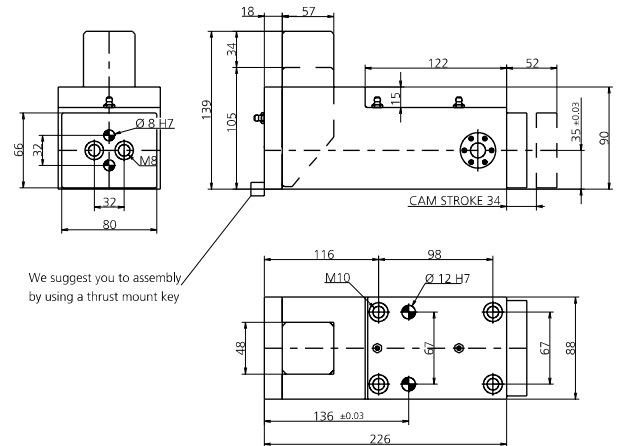
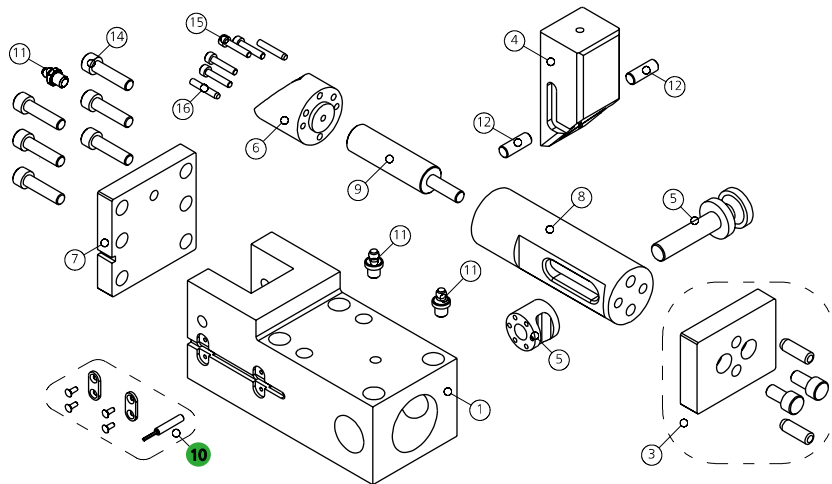
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **8000 daN**

CUTTING MAX FORCE

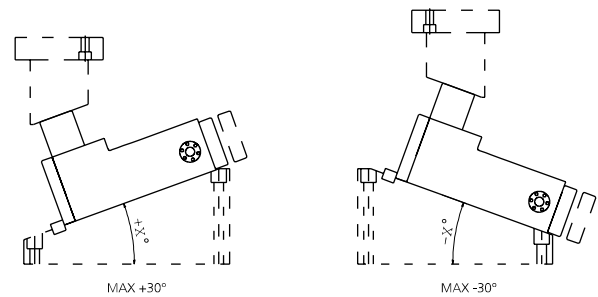
MAXIMALE SCHNITTKRAFT

EFFORT MAXI DÉCOUPE



POS.	CODE	DESCRIPTION	Q.TY
001	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 / FÜHRUNGSTIFTE	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

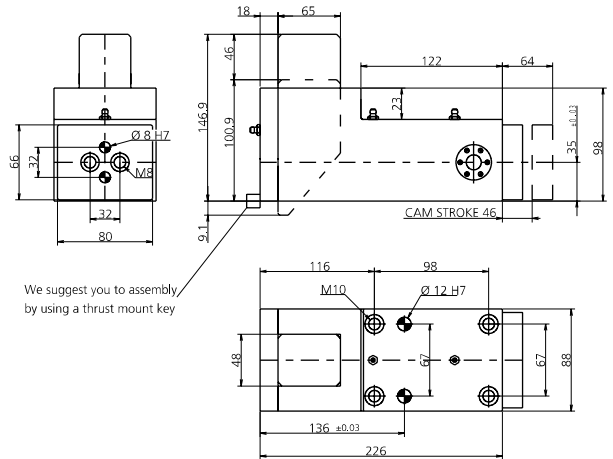
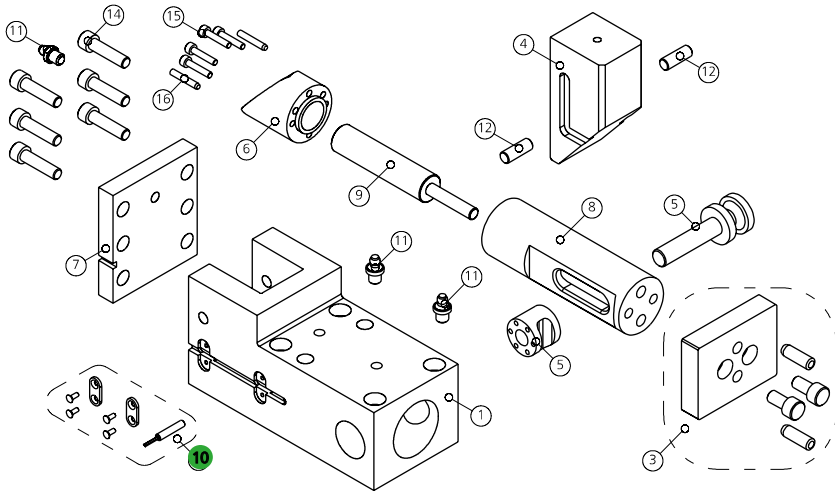


10 PATENT PENDING

0144.S240 - CAM MAS240S

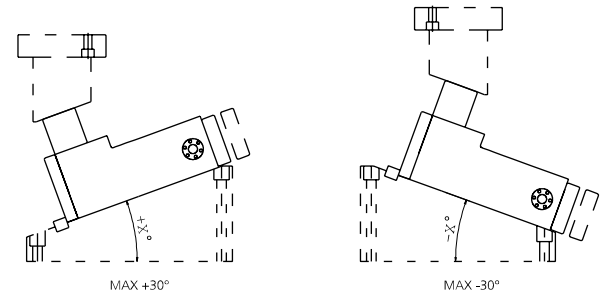
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **240 daN**
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **270 daN**
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION

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 DSX16	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**

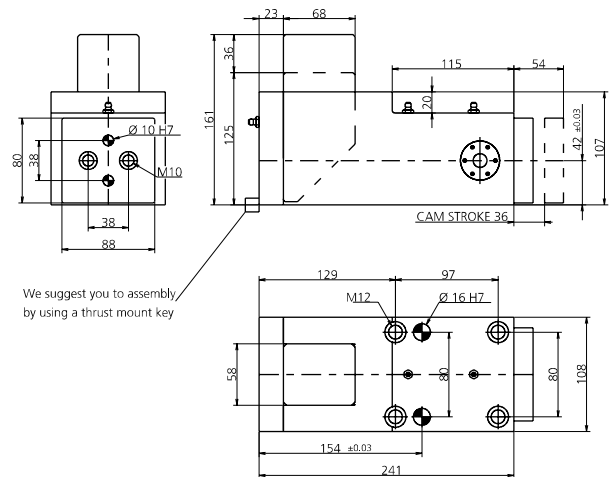
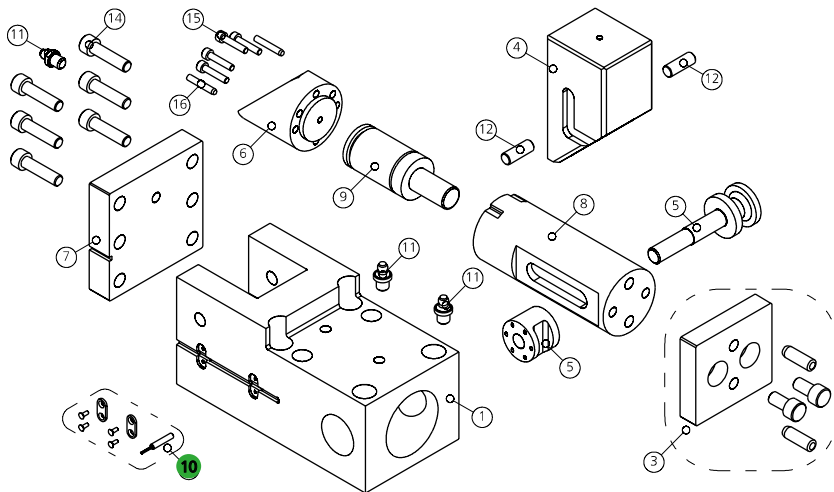
0144.0600 - CAM MAS600

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

SFORZO MAX TRANCIO **13000 daN**

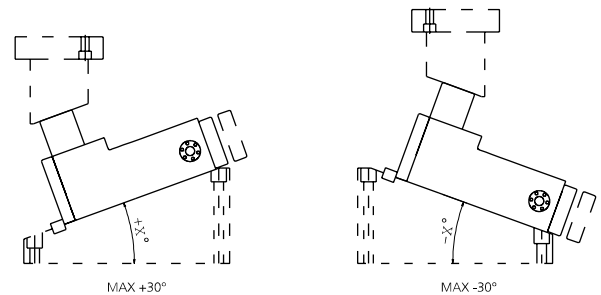
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **880 daN**
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



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

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



010 (8107) SENSORE / SENSOR / SENSOR



10 PATENT PENDING

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

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

0144.S600 - CAM MAS600S

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

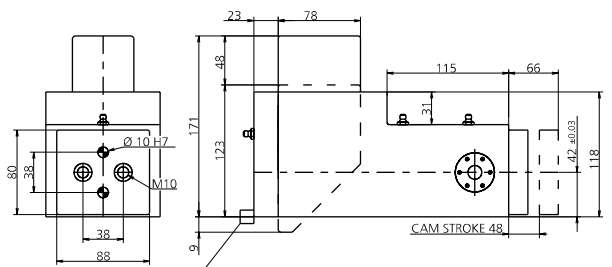
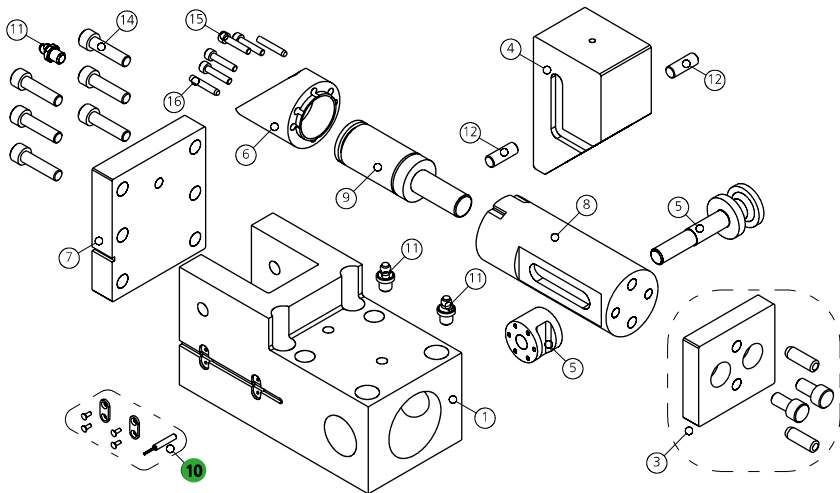
600 daN

SFORZO MAX TRANCIO **13000 daN**

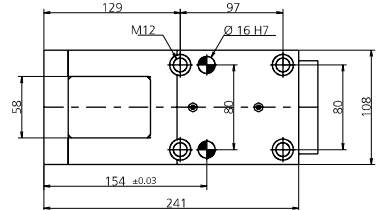
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE

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

880 daN

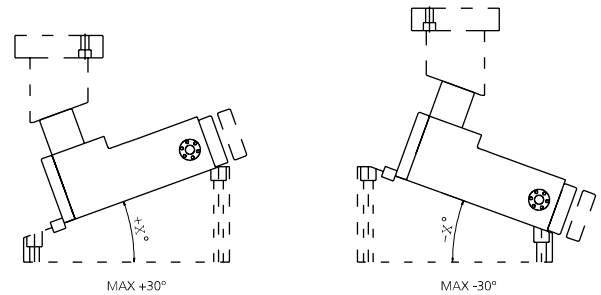


We suggest you to assembly by using a thrust mount key



POS.	CODE	DESCRIPTION	Q.TY
001	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 **850 daN**

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1360 daN**

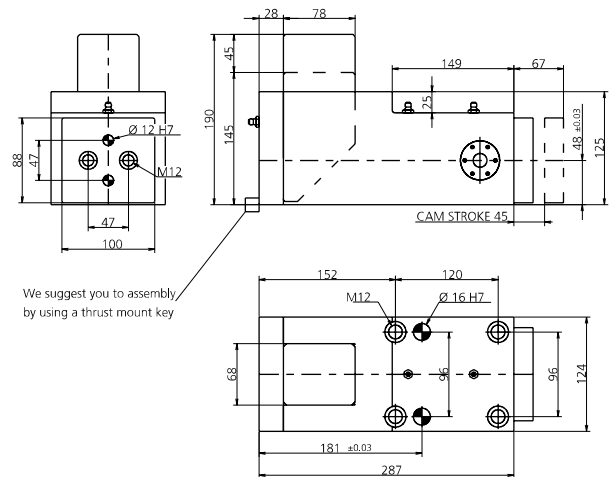
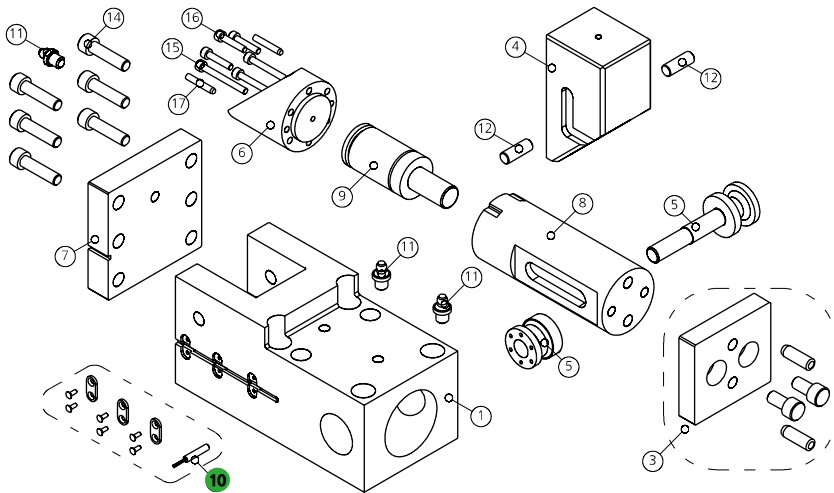
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **19000 daN**

CUTTING MAX FORCE

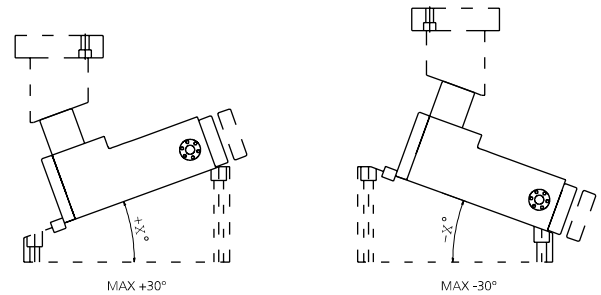
MAXIMALE SCHNITTKRAFT

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 / FÜHRUNGSTIFTE	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



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**



CAM MAS

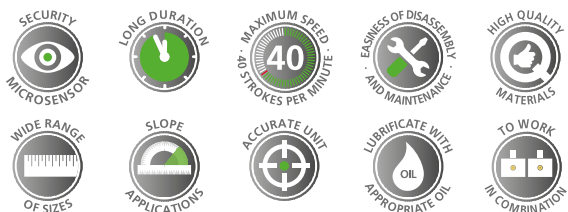


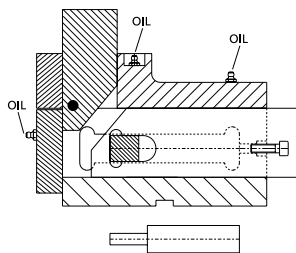
CAM MASC

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



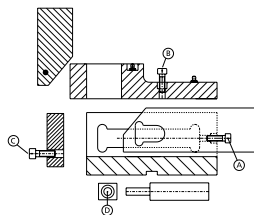
PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS OF FORCE





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

SMONTAGGIO PRODOTTO 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).

- EN** **Attention: Undertake reassembly or maintenance work only when the cam unit is in its basic position.**
1. Take off the gas cylinder by removing the screws "A" as shown.
 2. Take off the cover by removing the screws "B" as shown.
 3. Take off the rear flange by removing the screws "C" as shown in order to remove the wedge.
 4. Take off the springs holder block removing the screws "D" as shown in order to remove the slider.
 5. Check the components.
 6. Reassemble carefully using grease with disulfide molybdeno (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).

- DE** **Achtung: Wartungs- und Demontearbeiten nur in Grundstellung der Stanzeinheit vornehmen.**
1. Schrauben "A" entfernen um die Gasdruckfedern herauszuziehen.
 2. Schrauben "B" entfernen um die Kopfplatte herunter zu nehmen.
 3. Schrauben "C" entfernen um die Heckplatte herausziehen.
 4. Schrauben "D" entfernen um die Federlagerblöcke zu lösen.
 5. Komponenten prüfen.
 6. Montage in umgekehrter Reihenfolge unter Verwendung von Molybdändisulfidfett (MoS₂). Die Verwendung dieses Fett wird durch Newstark empfohlen.
 7. 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 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

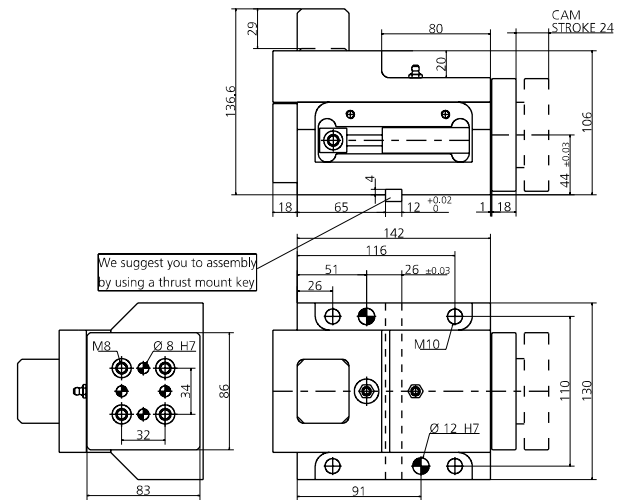
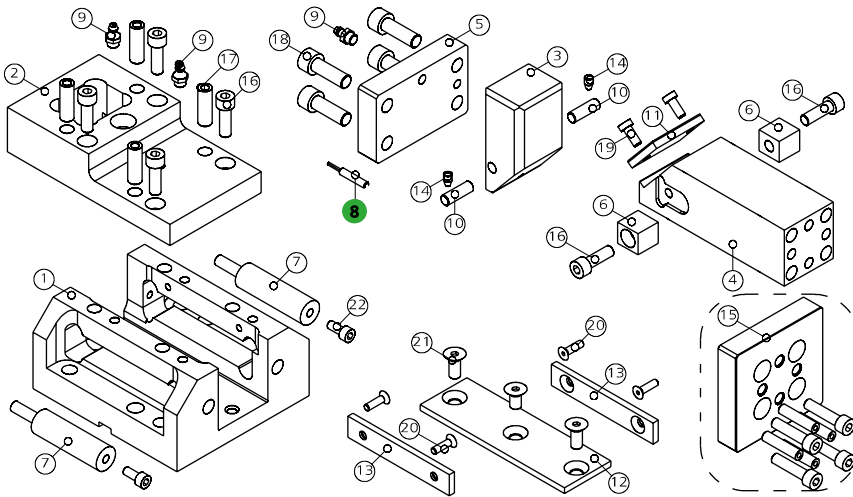
400 daN

SFORZO MAX TRANCIO 8000 daN

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

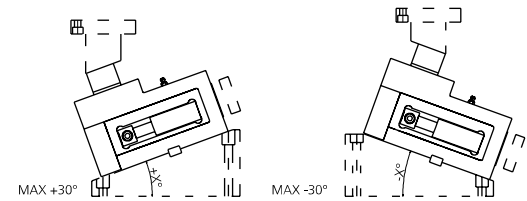
450 daN

CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



POS.	CODE	DESCRIPTION	Q.TY
001	8000.0045.0404	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



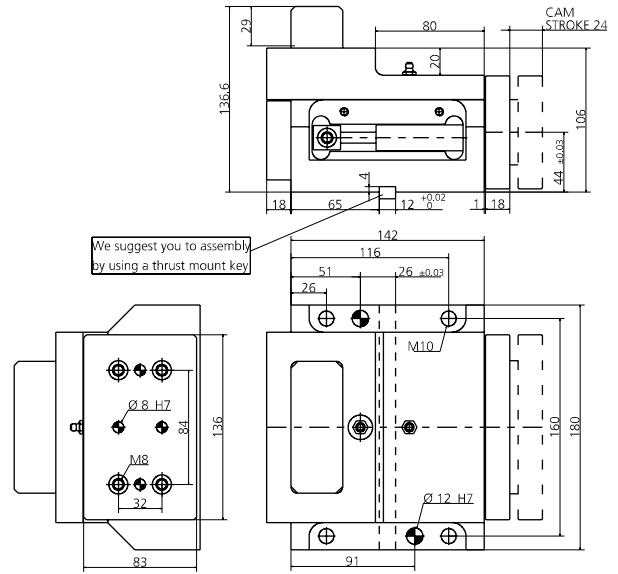
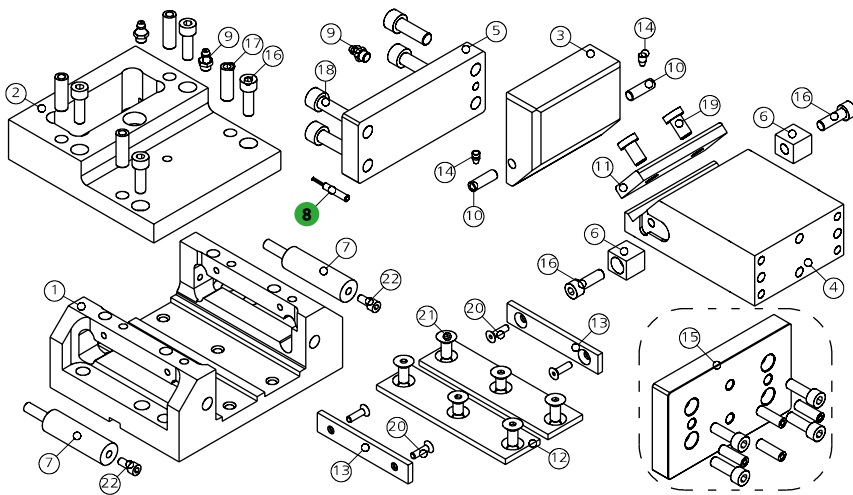
8 PATENT PENDING

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

MODEL 0145.0404 OPTION CODE 8014.4546.0404

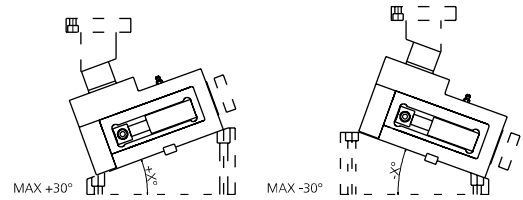
0145.0409 - CAM MASC400 S98

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



POS.	CODE	DESCRIPTION	Q.TY
001	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

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (9003) SENSORE / SENSOR / SENSOR



8 PATENT PENDING

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

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

0145.0414 - CAM MASC400 S148

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RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

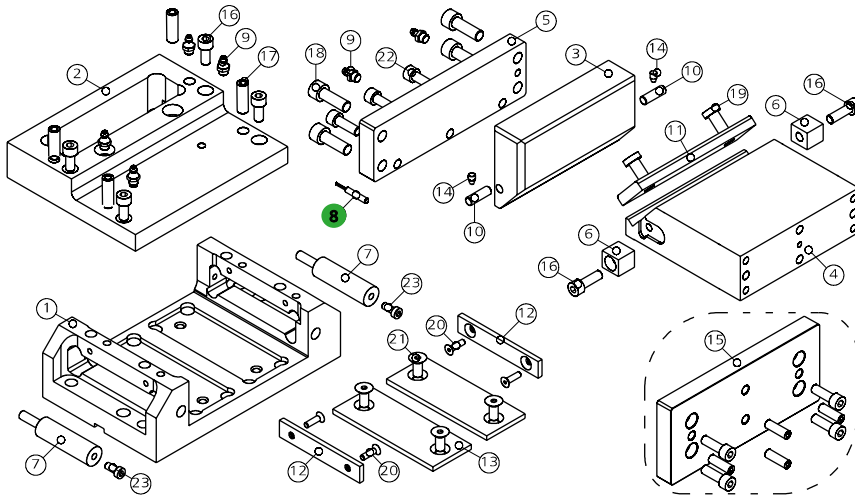
400 daN

SFORZO MAX TRANCIO 8000 daN

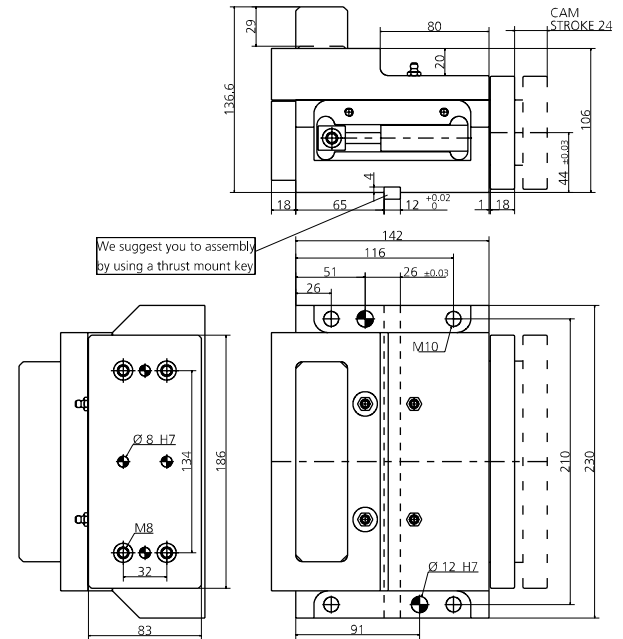
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

450 daN

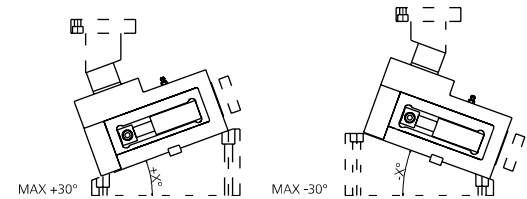
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



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



POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (9003) SENSORE / SENSOR / SENSOR



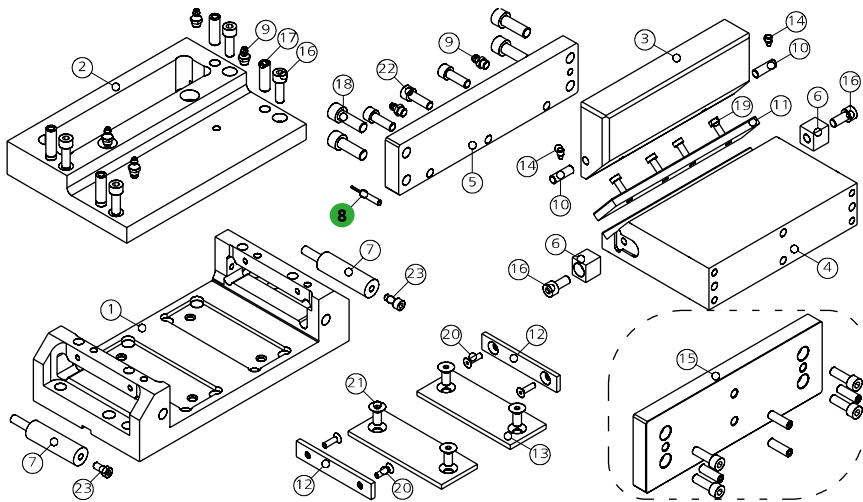
8 PATENT PENDING

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

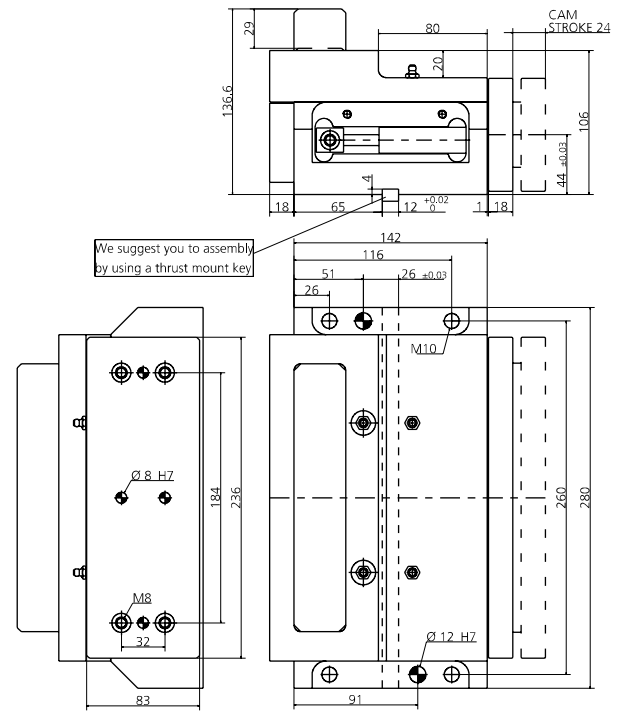
MODEL 0145.0414 OPTION CODE 8014.4546.0414

0145.0419 - CAM MASC400 S198

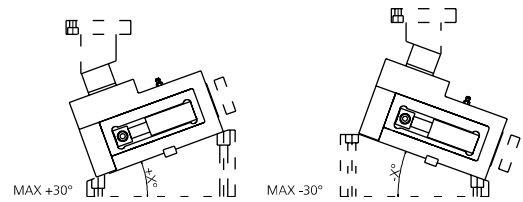
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **400 daN** SFORZO MAX TRANCIO **8000 daN**
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **450 daN** CUTTING MAX FORCE
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION MAXIMALE SCHNITTKRAFT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



POS.	CODE	DESCRIPTION	Q.TY
001	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 **900 daN**

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1200 daN**

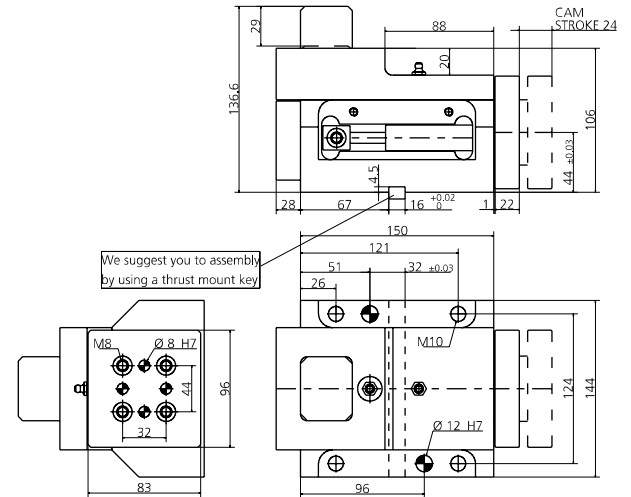
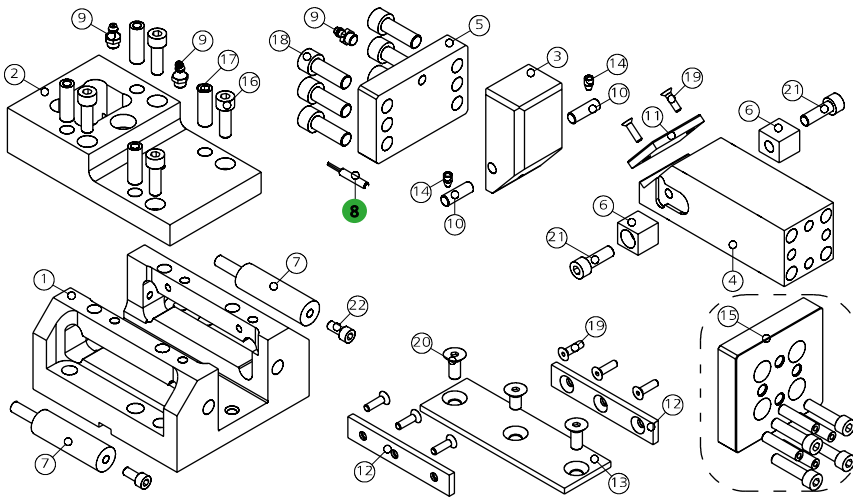
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **14000 daN**

CUTTING MAX FORCE

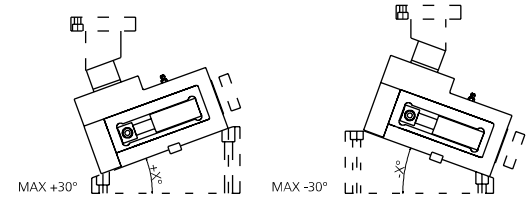
MAXIMALE SCHNITTKRAFT

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



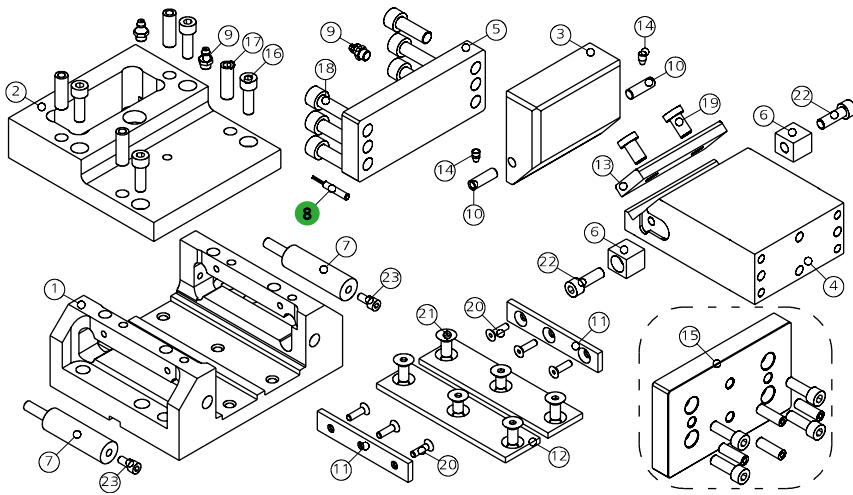
8 PATENT PENDING

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

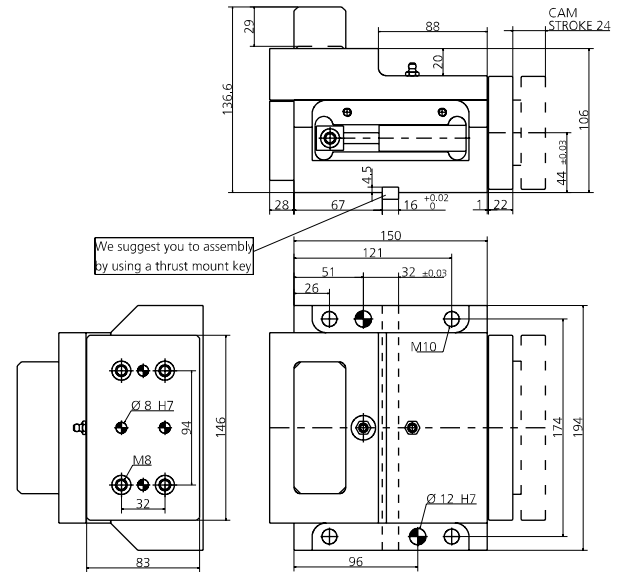
MODEL **0145.0905** OPTION CODE **8014.4546.0905**

0145.0910 - CAM MASC900 S108

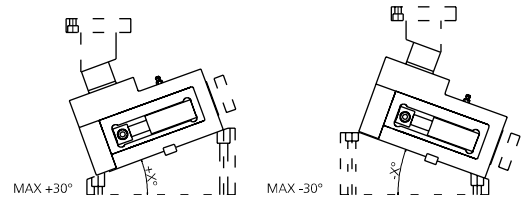
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **900 daN** SFORZO MAX TRANCIO **14000 daN**
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1200 daN** CUTTING MAX FORCE
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION MAXIMALE SCHNITTKRAFT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



POS.	CODE	DESCRIPTION	Q.TY
001	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

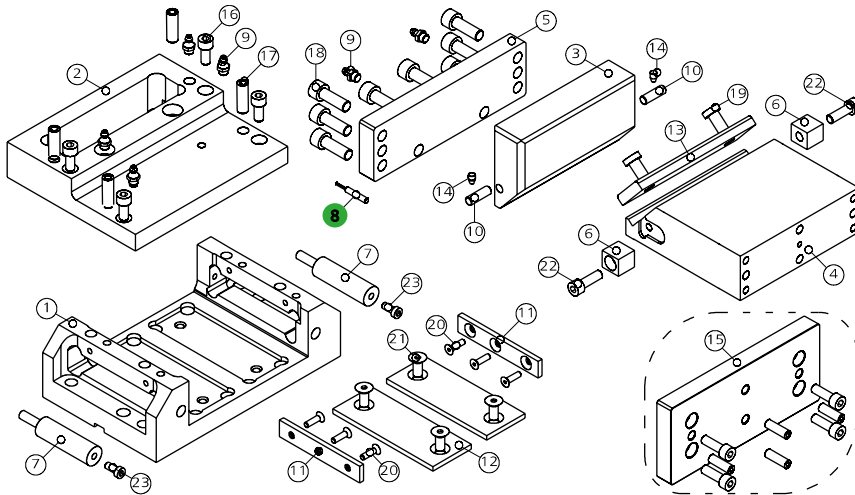
900 daN

SFORZO MAX TRANCIO **14000 daN**

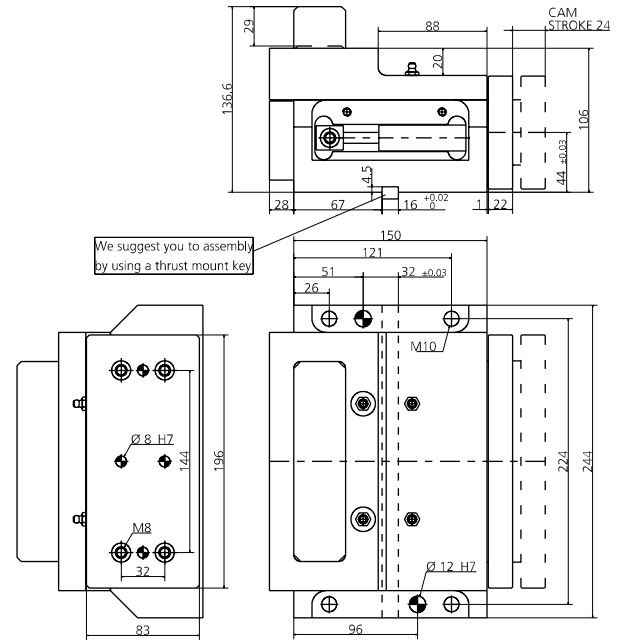
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

1200 daN

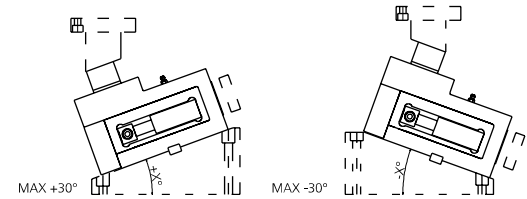
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



POS.	CODE	DESCRIPTION	Q.TY
001	8000.0045.0915	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8010.4546.0915	COPERCHIO / COVER / KOPFFLATTE	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



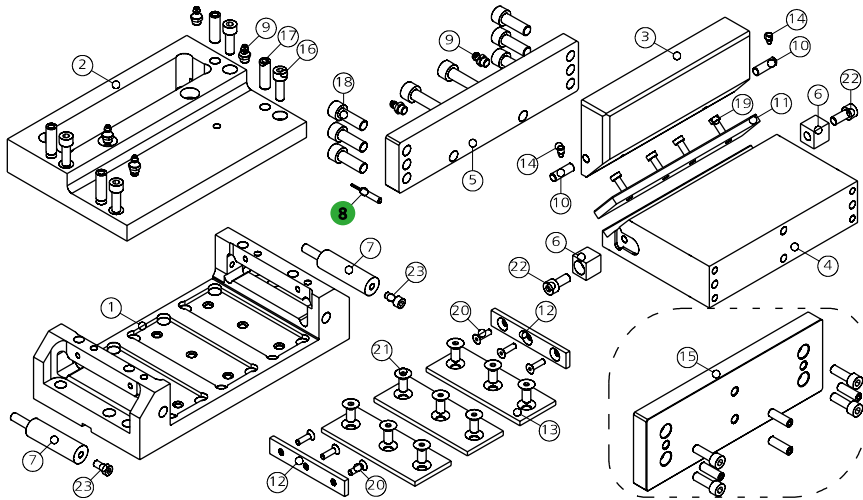
8 PATENT PENDING

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

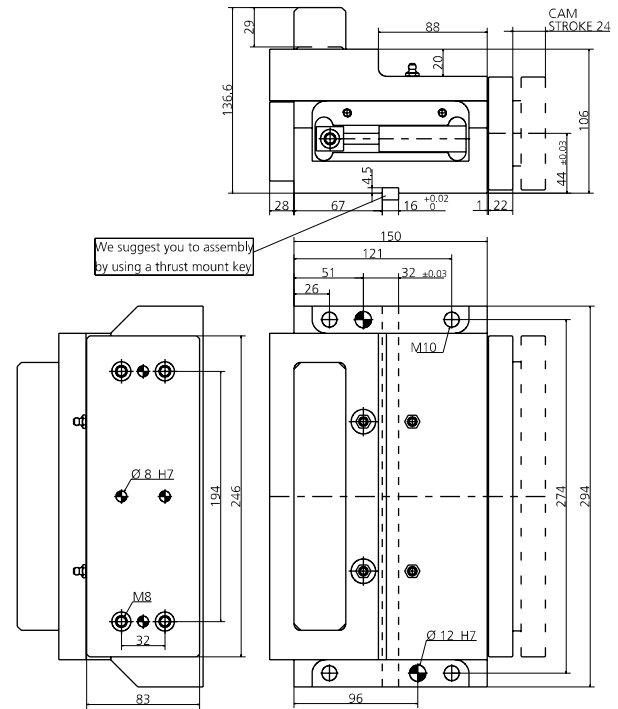
MODEL **0145.0915** OPTION CODE **8014.4546.0915**

0145.0920 - CAM MASC900 S208

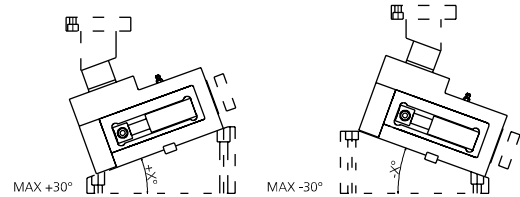
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **900 daN** SFORZO MAX TRANCIO **14000 daN**
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1200 daN** CUTTING MAX FORCE
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION MAXIMALE SCHNITTKRAFT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



POS.	CODE	DESCRIPTION	Q.TY
001	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 **1500 daN**

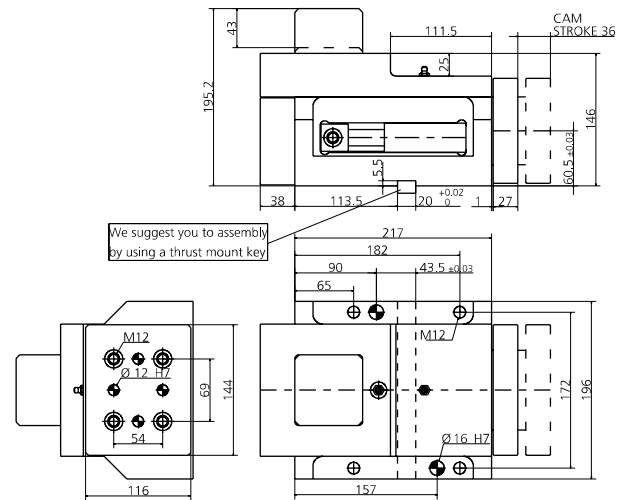
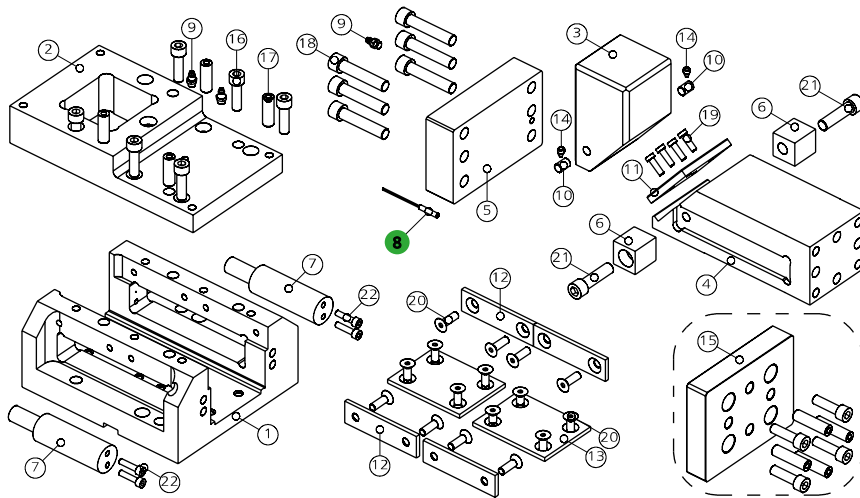
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

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

ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

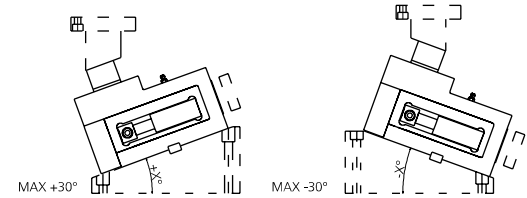
SFORZO MAX TRANCIO **20000 daN**

CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



POS.	CODE	DESCRIPTION	Q.TY
001	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

PSSIBILI 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



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 trancitura, foratura e piegatura.
- EN** Mechanical cam with power supply up to 20'000 daN with return by nitrogen spring, on which are applied accessories or steel, to perform required work. The motion is transferred through wedges inclined and in which there is an anti-rotation system. Can be fitted horizontally or inclined (after comparison with Newstark's technical department). Means of application: generally suitable for shearing, drilling and bending work.
- DE** Mechanische Stanzeinheit Kraft bis 20'000 daN mit einem Rücklauf der durch Stickstoffedern sichergestellt wird. An der Schubstange kann Zubehör je nach Bedarf angebracht werden. Bei diesem Modell, wird die Bewegung durch Keile umgesetzt. Durch die Art der Schubstange wird die Rotationsbewegung so gering wie möglich gehalten. Diese Einheit ist für die Montage von oben ausgelegt. Die Einheiten können (nach Abstimmung mit technischen Büro von Newstark) horizontal oder geneigt montiert werden. Mögliche Anwendungen: Stanzen, Biegen und Prägen.
- FR** Came mécanique d'une puissance allant jusqu'à 20'000 daN avec retour garanti au moyen de deux ressorts à azote, sur lesquels sont appliqués les accessoires ou les aciers pour réaliser les usinages souhaités. Le mouvement est transmis par des cales inclinées et est équipé d'un système anti-rotation. Elle peut être montée en position horizontale ou inclinée (après discussion avec le bureau technique Newstark). Applications possibles: convient pour les travaux de découpage, de perçage et de pliage.

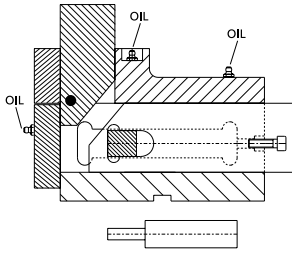


PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE



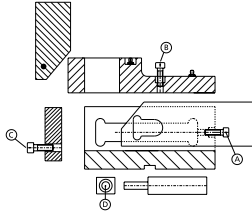
CAM MASC COMPACT

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).

- EN** **Attention: Undertake reassembly or maintenance work only when the cam unit is in its basic position.**
1. Take off the gas cylinder by removing the screws "A" as shown.
 2. Take off the cover by removing the screws "B" as shown.
 3. Take off the rear flange by removing the screws "C" as shown in order to remove the wedge.
 4. Take off the springs holder block removing the screws "D" as shown in order to remove the slider.
 5. Check the components.
 6. Reassemble carefully using grease with disulfide molybdeno (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).

- DE** **Achtung: Wartungs- und Demontearbeiten nur in Grundstellung der Stanzeinheit vornehmen.**
1. Schrauben "A" entfernen um die Gasdruckfedern herauszuziehen.
 2. Schrauben "B" entfernen um die Kopfplatte herunter zu nehmen.
 3. Schrauben "C" entfernen um die Heckplatte herauszuziehen.
 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.

- 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

400 daN

SFORZO MAX TRANCIO

8000 daN

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

CUTTING MAX FORCE

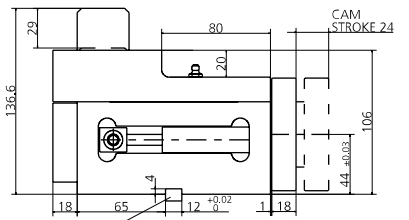
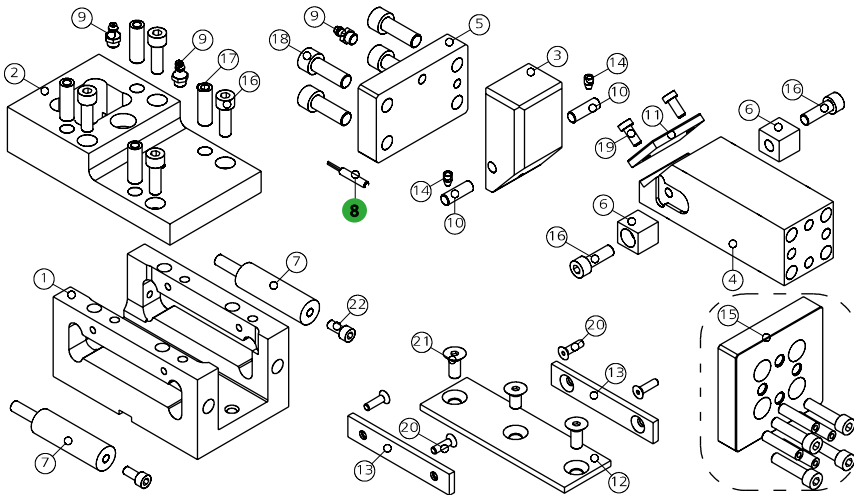
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION

450 daN

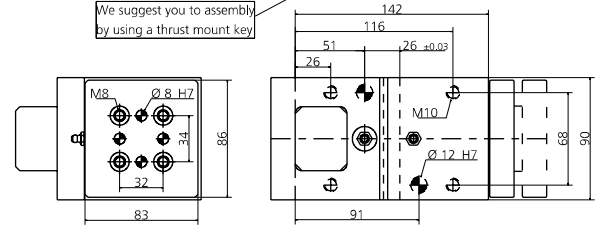
MAXIMALE SCHNITTKRAFT

ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

EFFORT MAXI DÉCOUPE

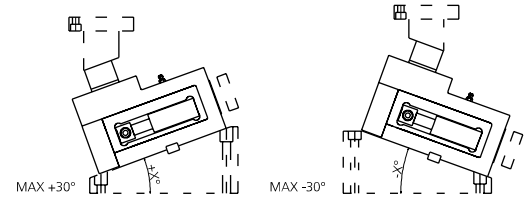


We suggest you to assembly by using a thrust mount key



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

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (9003) SENSORE / SENSOR / SENSOR



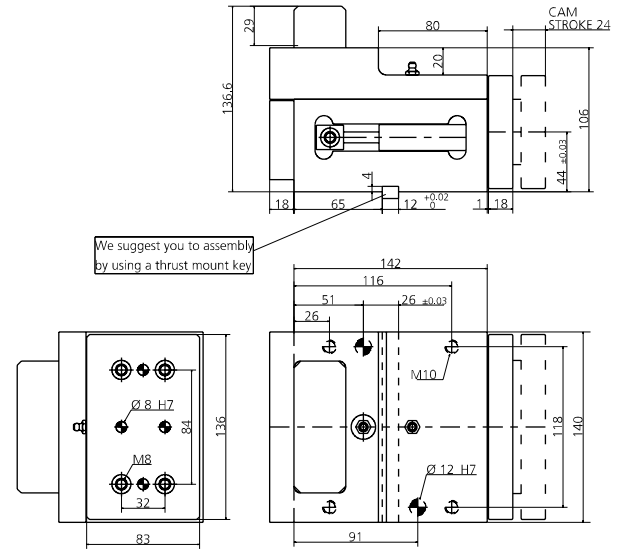
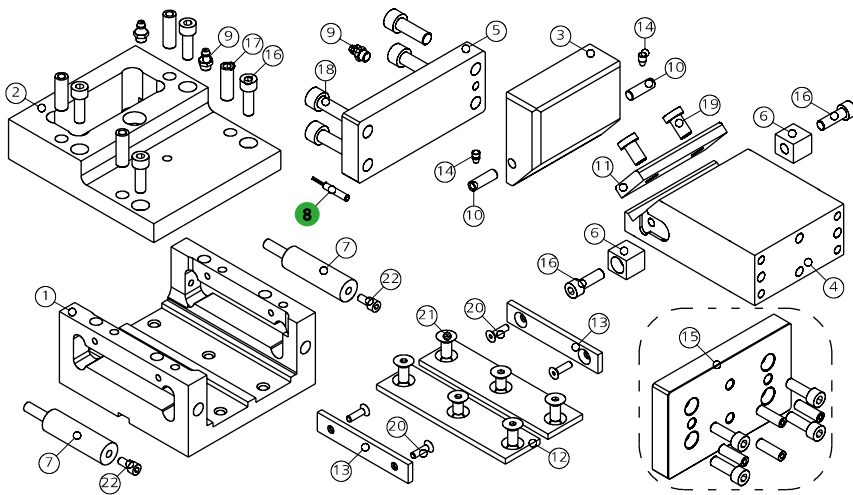
8 PATENT PENDING

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

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

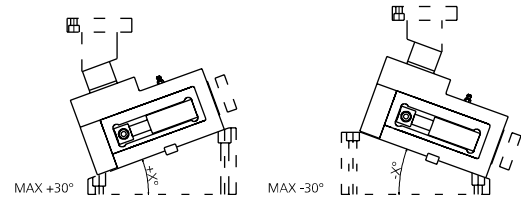
0146.0409 - CAM MASC COMPACT400 S98

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



POS.	CODE	DESCRIPTION	Q.TY
001	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 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

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (9003) SENSORE / SENSOR / SENSOR



8 PATENT PENDING

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

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

0146.0414 - CAM MASC COMPACT400 S148

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE

400 daN

SFORZO MAX TRANCIO

8000 daN

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

CUTTING MAX FORCE

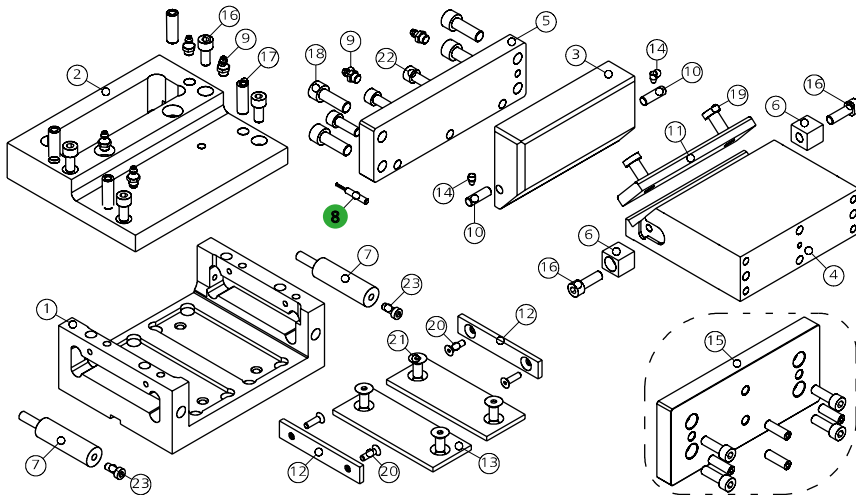
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION

450 daN

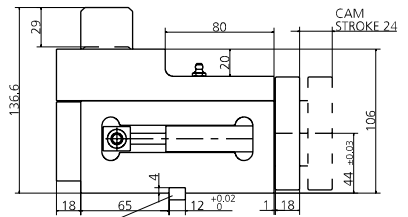
MAXIMALE SCHNITTKRAFT

ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

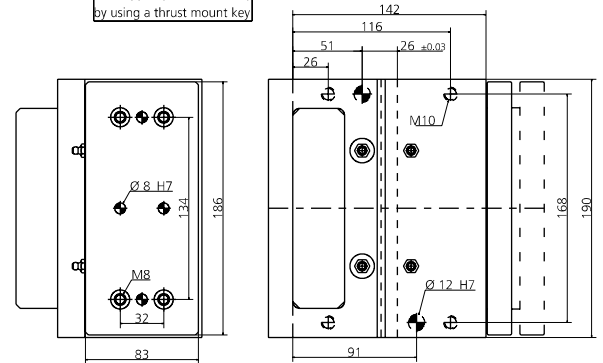
EFFORT MAXI DÉCOUPE



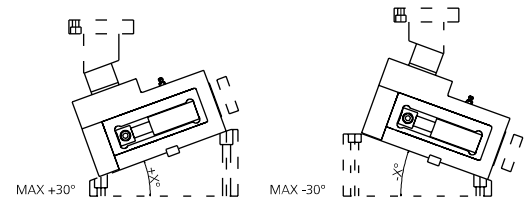
POS.	CODE	DESCRIPTION	Q.TY
001	8000.0046.0414	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8010.4546.0414	COPERCHIO / COVER / KOPFPLATTE	1
003	8008.4546.1415	CUNEO / WEDGE / DRUCKKEIL	1
004	8007.4546.0414	SLITTA / SLIDER / LAGE	1
005	8002.4546.0414	FLANGIA POSTERIORE / REAR FLANGE / HINTERER FLANSCH	1
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 M8X20	6
017	9028.100.030.8735	SPINA CILINDRICA / DOWEL PIN / ZYLINDERSTIFT D10X30	4
018	9007.10.030.129.1.4762	VITE / SCREW / SCHRAUBE M10X30	4
019	9007.10.020.088.1.9327	VITE / SCREW / SCHRAUBE M10X20	2
020	9007.06.012.129.1.5933	VITE / SCREW / SCHRAUBE M6X12	4
021	9007.08.012.129.1.5933	VITE / SCREW / SCHRAUBE M8X12	6
022	9007.08.030.129.1.4762	VITE / SCREW / SCHRAUBE M8X30	3
023	9007.06.012.129.1.4762	VITE / SCREW / SCHRAUBE M6X12	2



We suggest you to assembly by using a thrust mount key



POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (9003) SENSORE / SENSOR / SENSOR



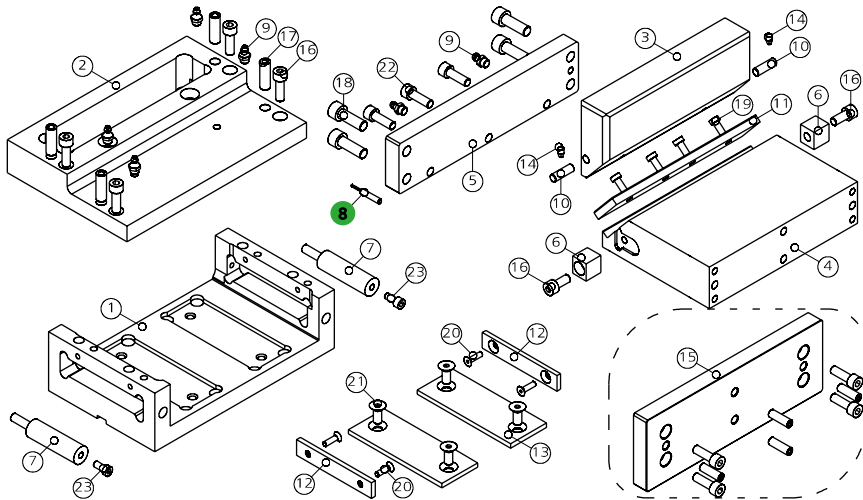
8 PATENT PENDING

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

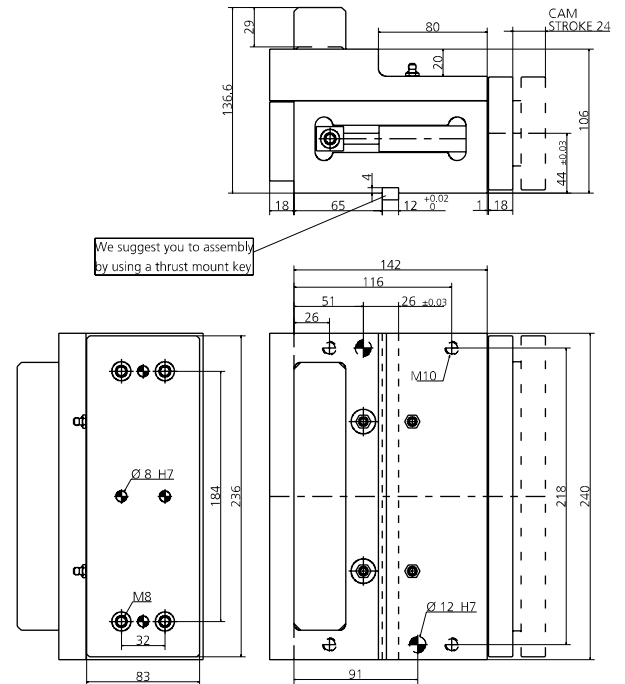
MODEL **0146.0414** OPTION CODE **8014.4546.0414**

0146.0419 - CAM MASC COMPACT400 S198

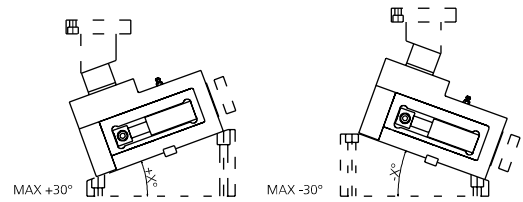
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **400 daN** SFORZO MAX TRANCIO **8000 daN**
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **450 daN** CUTTING MAX FORCE
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION MAXIMALE SCHNITTKRAFT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



POS.	CODE	DESCRIPTION	Q.TY
001	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 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



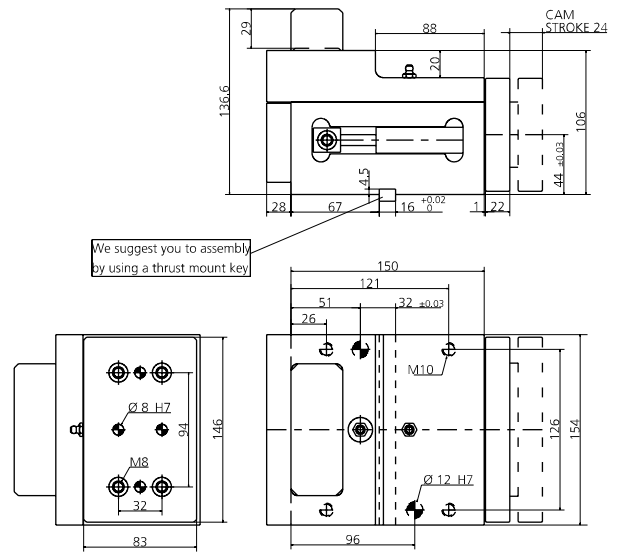
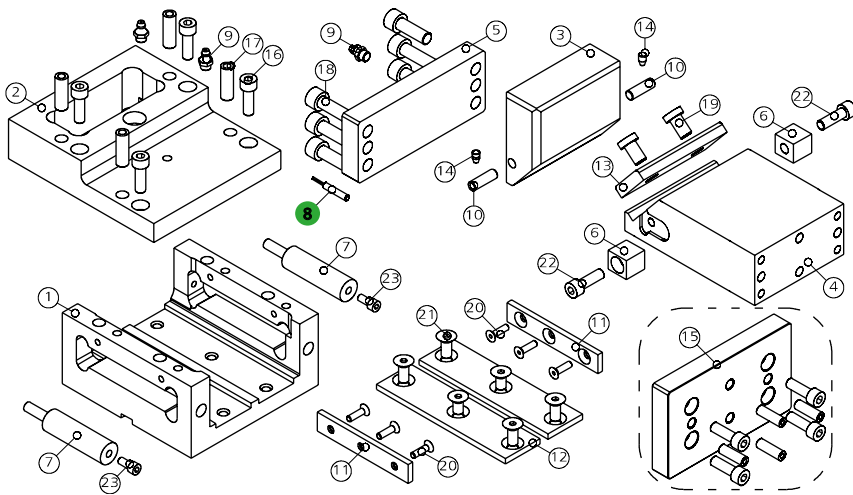
8 PATENT PENDING

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

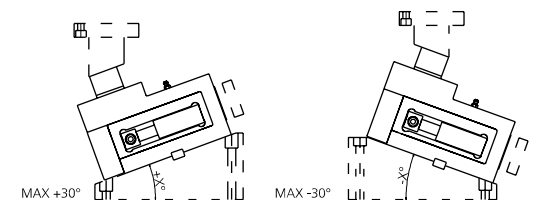
MODEL **0146.0419** OPTION CODE **8014.4546.0419**

0146.0910 - CAM MASC COMPACT900 S108

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



POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (9003) SENSORE / SENSOR / SENSOR



8 PATENT PENDING

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 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

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

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

0146.0915 - CAM MASC COMPACT900 S158

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE

900 daN

SFORZO MAX TRANCIO 14000 daN

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

CUTTING MAX FORCE

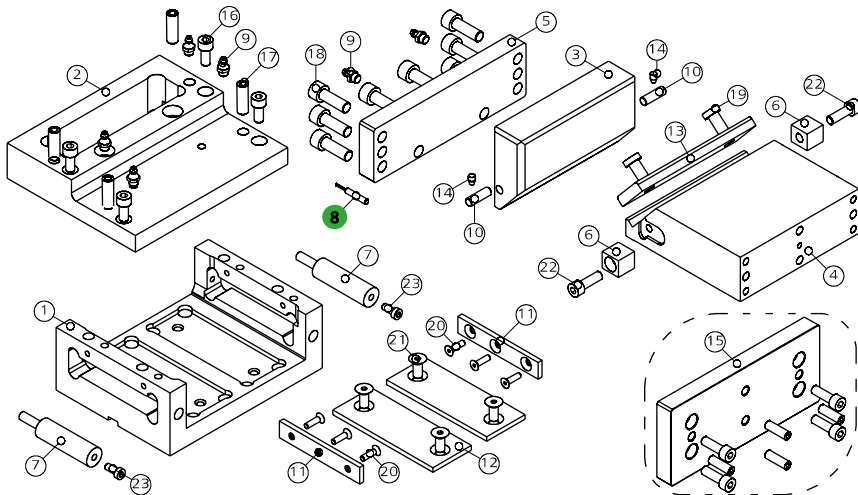
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION

1200 daN

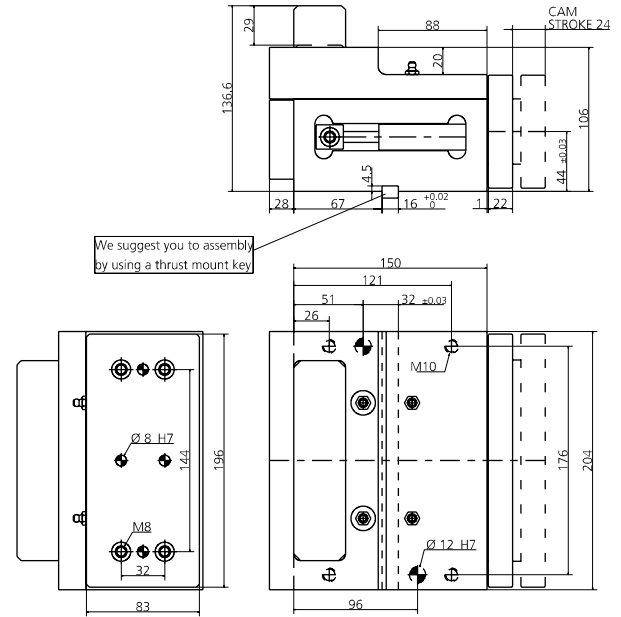
MAXIMALE SCHNITTKRAFT

ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

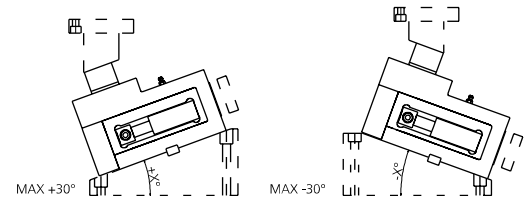
EFFORT MAXI DÉCOUPE



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



POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (9003) SENSORE / SENSOR / SENSOR



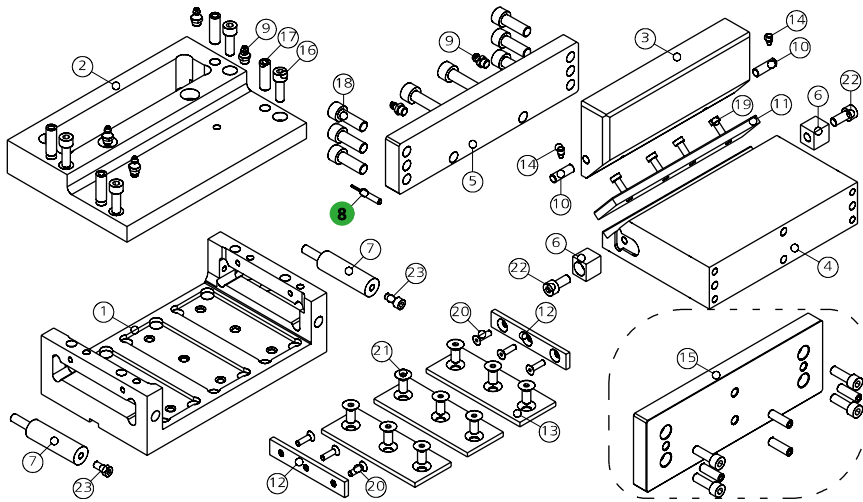
8 PATENT PENDING

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

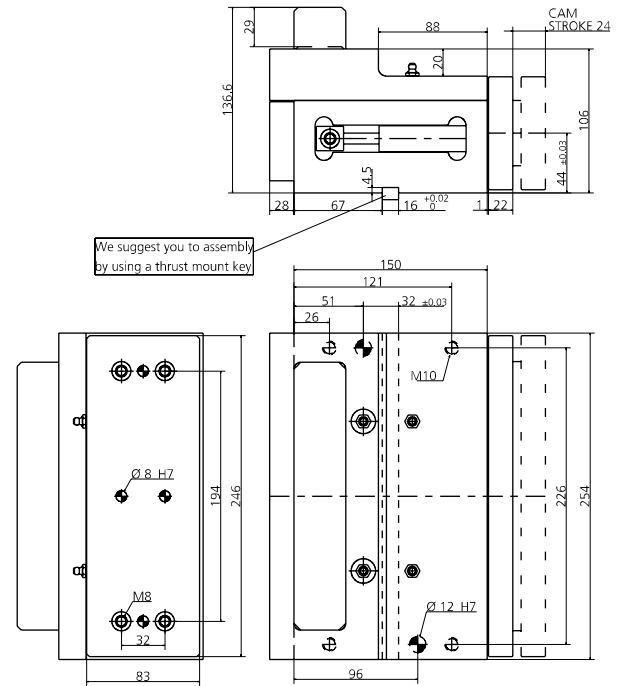
MODEL **0146.0915** OPTION CODE **8014.4546.0915**

0146.0920 - CAM MASC COMPACT900 S208

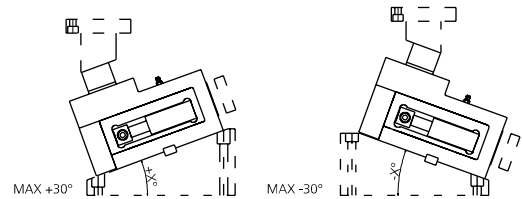
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **900 daN** SFORZO MAX TRANCIO **14000 daN**
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **1200 daN** CUTTING MAX FORCE
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION MAXIMALE SCHNITTKRAFT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



POS.	CODE	DESCRIPTION	Q.TY
001	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 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 **0146.0920** OPTION CODE **8014.4546.0920**

0146.1508 - CAM MASC COMPACT1500 S88

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

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

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

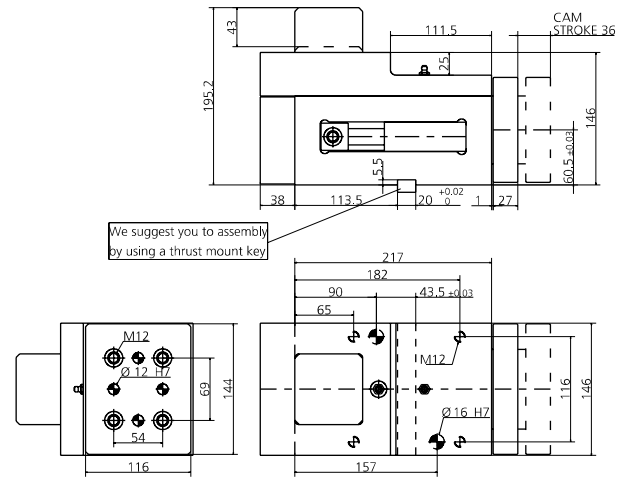
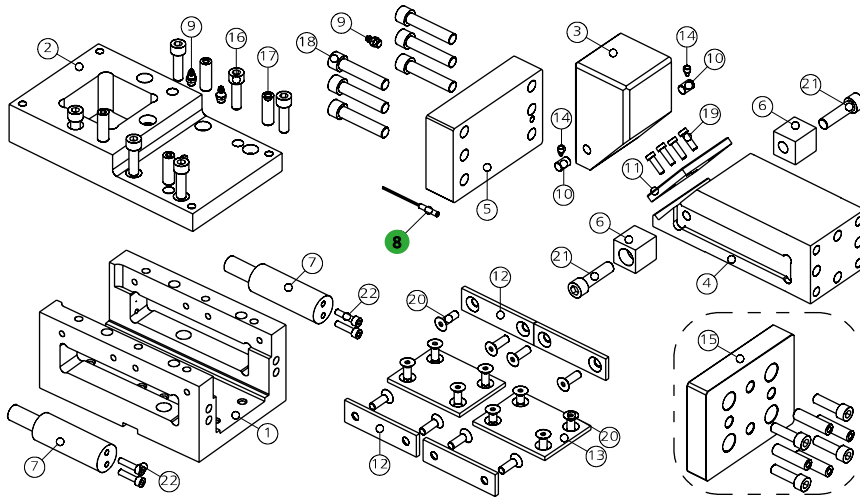
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **20000 daN**

CUTTING MAX FORCE

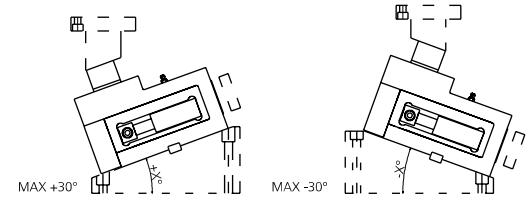
MAXIMALE SCHNITTKRAFT

EFFORT MAXI DÉCOUPE



POS.	CODE	DESCRIPTION	Q.TY
001	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 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 **0146.1508** OPTION CODE **8014.4546.1508**



CAM MASC COMPACT



CAM ROLLER

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



PUNTI DI FORZA / STRENGTHS / STÄRKEN / POINTS DE FORCE



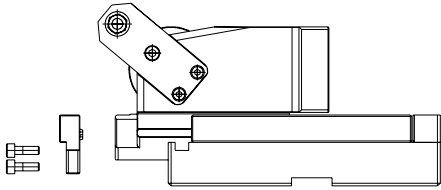
CAM ROLLER

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



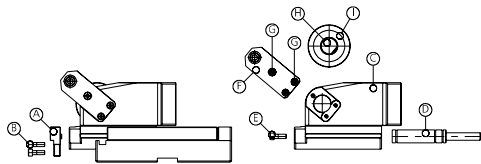
- ⚠ Forature sulla slitta a richiesta.**
Su richiesta è possibile montare un'unità di punzonatura speciale.
Upon request drillings are available in the slide.
Upon request, it is possible to assemble a special punching unit.
Auf Anfrage sind Bohrungen möglich.
Auf Anfrage ist die Montage einer Stanzeinheit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

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



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

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



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

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

1. Togliere le piastrine "A" rimuovendo le viti "B".
2. Sfilare la slitta "C".
3. Togliere il cilindro a gas "D" rimuovendo la vite "E".
4. Togliere le sfatte "F" rimuovendo le viti "G".
5. Sfilare il perno "H" per togliere la rotella "I".
6. Eseguire le verifiche.
7. Rimontare con cura lubrificando con grasso bisolfuro di Molibdeno (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

50 daN

SFORZO MAX TRANCIO

3400 daN

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

CUTTING MAX FORCE

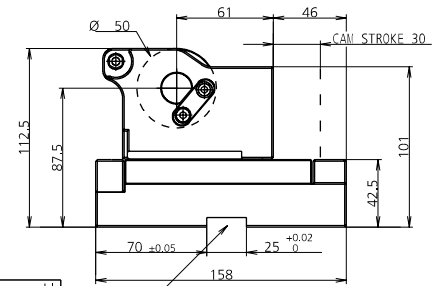
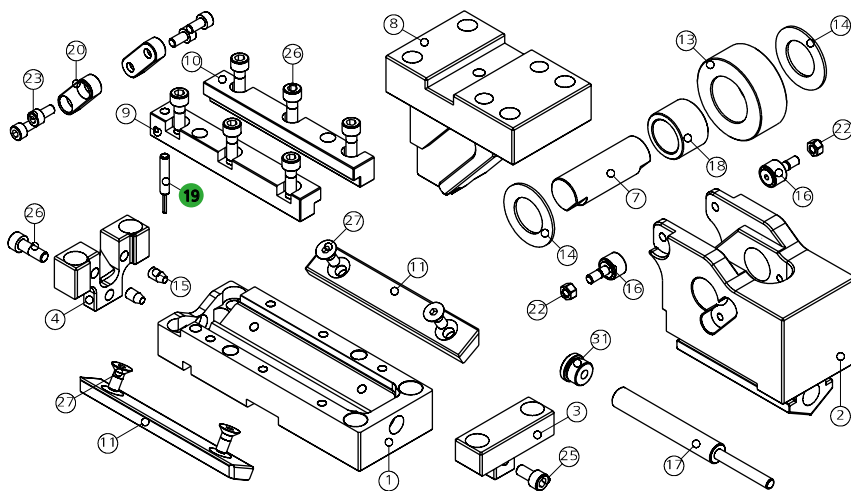
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION

100 daN

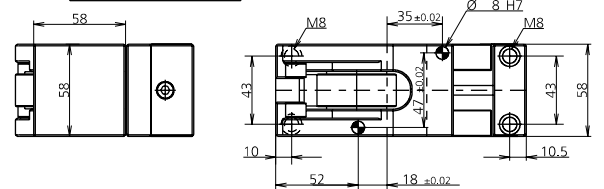
MAXIMALE SCHNITTKRAFT

ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

EFFORT MAXI DÉCOUPE



We suggest you to assembly by using a thrust mount key

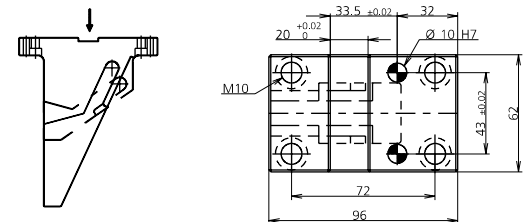


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.0030	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0000	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0000.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0000.002	PIASTRINA / PLATE / PLATTE	1
007	8005.0580.0417.200.001	PERNO / PIN / STIFT	1
008	8090.0000.0030.000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

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



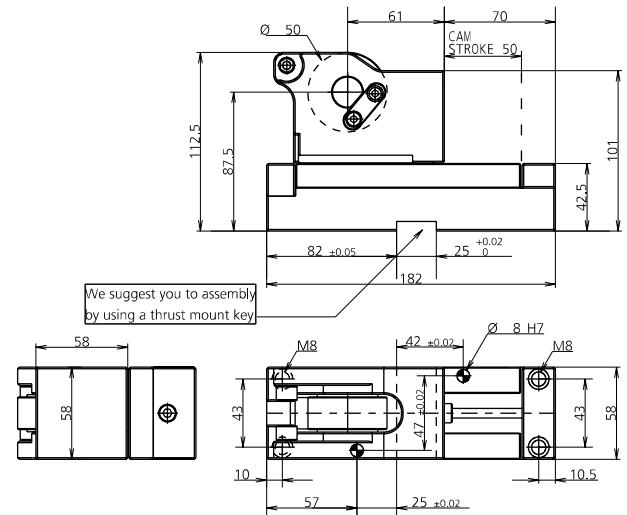
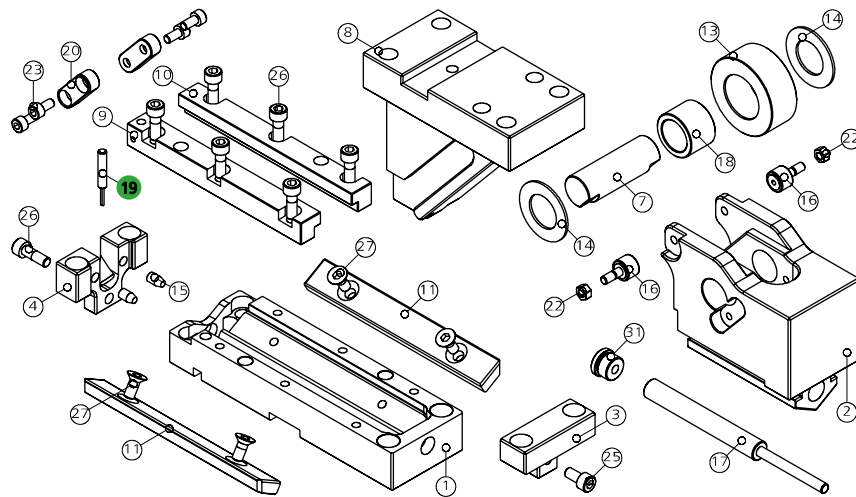
19 PATENT PENDING

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

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

0149.P050 - CAM ROLLER P050

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

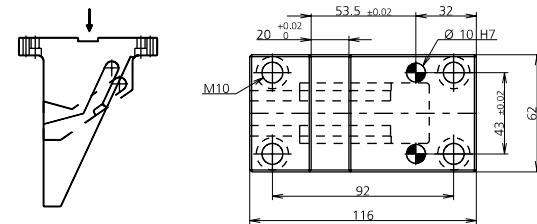


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.0050	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0000	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0000.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0000.002	PIASTRINA / PLATE / PLATTE	1
007	8005.0580.0417.200.001	PERNO / PIN / STIFT	1
008	8090.0000.0050.000	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 / UNTERLEGSCHIEBE	2
031	8089.0160.0110.001	DISTANZIALE / SPACER / ABSTANDSHALTER	1

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

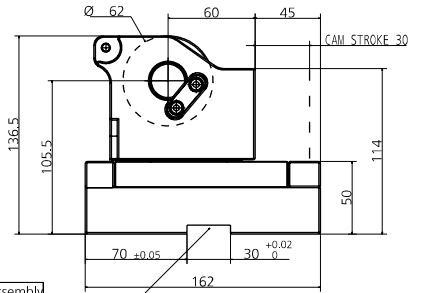
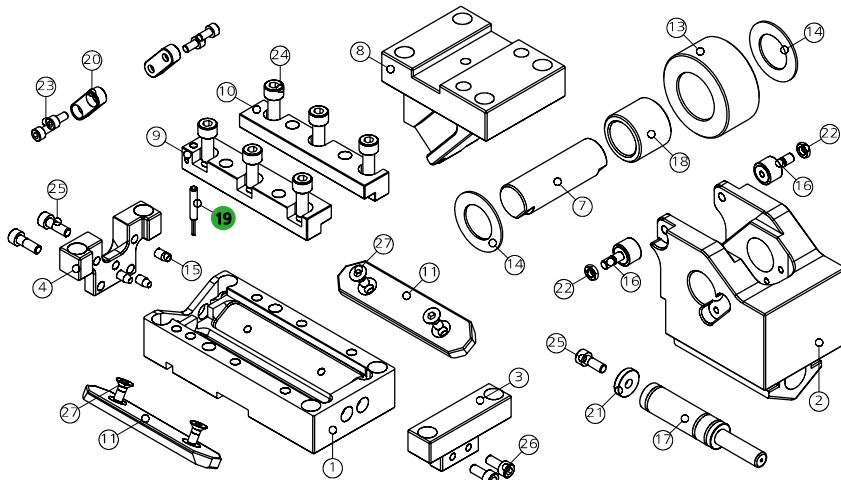
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

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

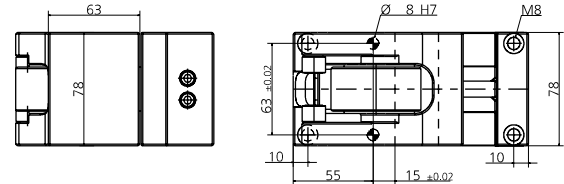
0149.P130 - CAM ROLLER P130

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

SFORZO MAX TRANCIO **450 daN**
 CUTTING MAX FORCE
 MAXIMALE SCHNITTKRAFT
 EFFORT MAXI DÉCOUPE

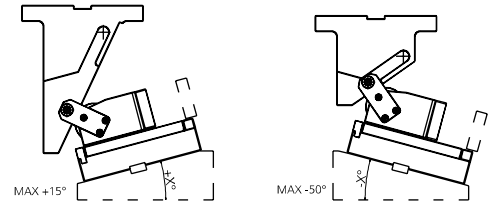


We suggest you to assembly by using a thrust mount key

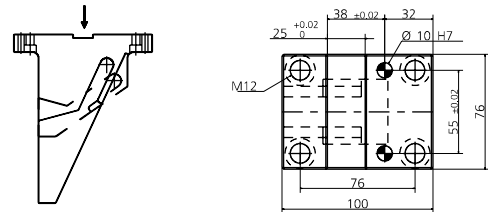


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.0130	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0100	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0100.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0100.002	PIASTRINA / PLATE / PLATTE	1
007	8005.0780.0617.250.001	PERNO / PIN / STIFT	1
008	8090.0001.0030.000	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 / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

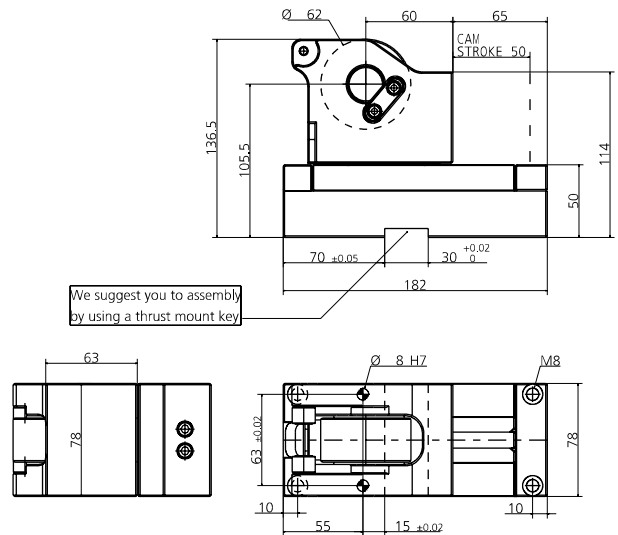
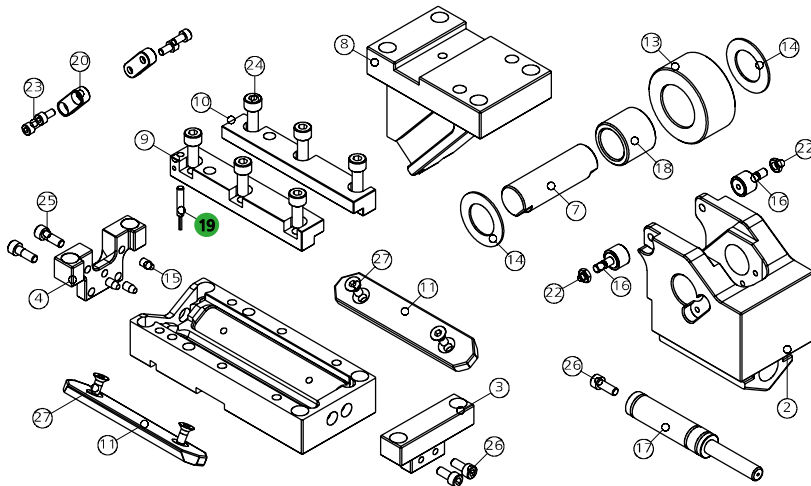
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

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

0149.P150 - CAM ROLLER P150

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

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

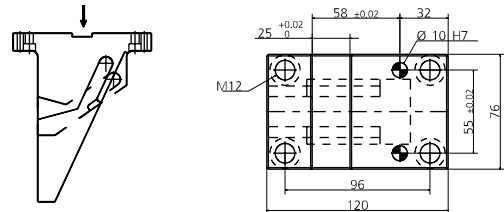


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.0150	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0100	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0100.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0100.002	PIASTRINA / PLATE / PLATTE	1
007	8005.0780.0617.250.001	PERNO / PIN / STIFT	1
008	8090.0001.0050.000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

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

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

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

0149.P250 - CAM ROLLER P250

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE

170 daN

SFORZO MAX TRANCIO

7600 daN

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

CUTTING MAX FORCE

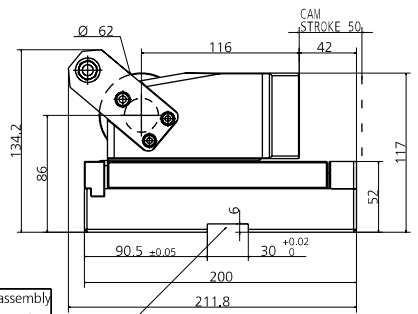
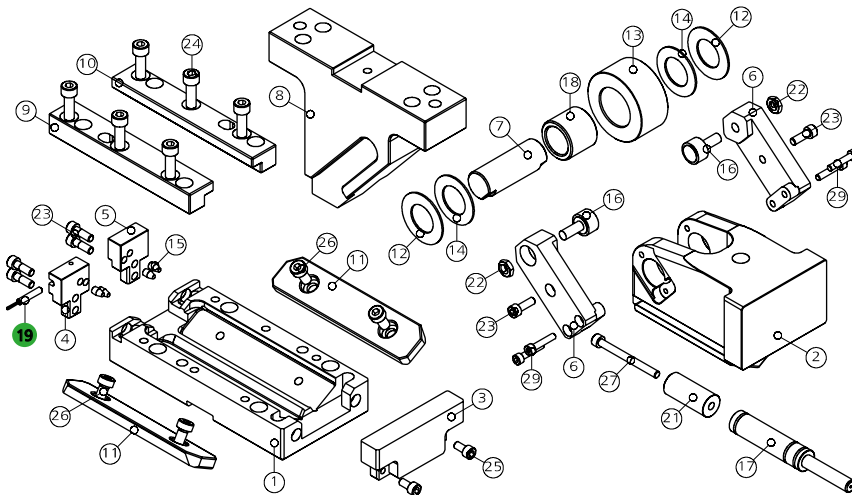
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION

340 daN

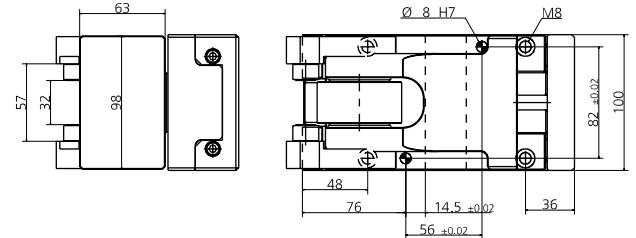
MAXIMALE SCHNITTKRAFT

ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

EFFORT MAXI DÉCOUPE

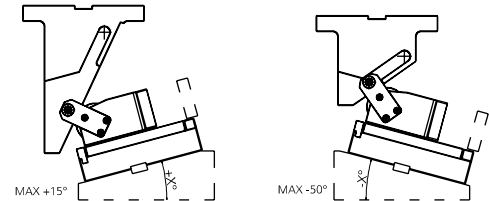


We suggest you to assembly by using a thrust mount key

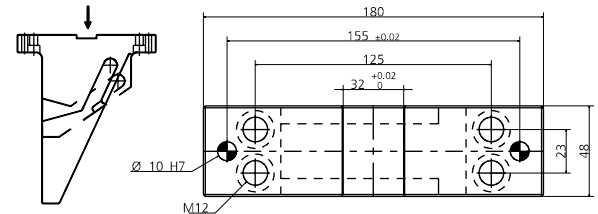


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.0250	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0200	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0200.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0200.002	PIASTRINA / PLATE / PLATTE	1
005	8088.0049.0200.003	PIASTRINA / PLATE / PLATTE	1
006	8009.0049.0200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

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

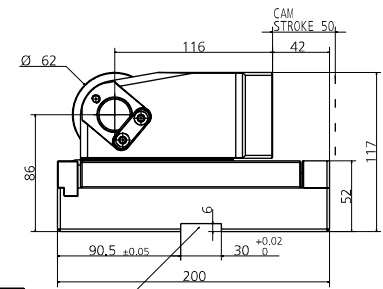
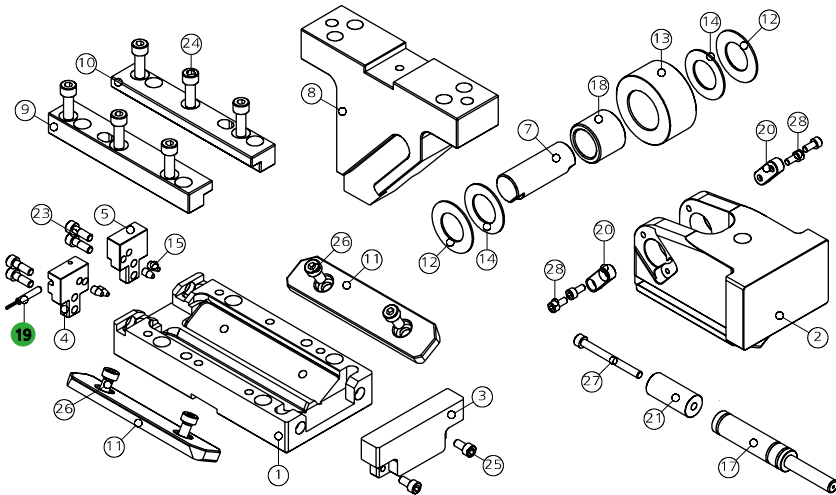
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

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

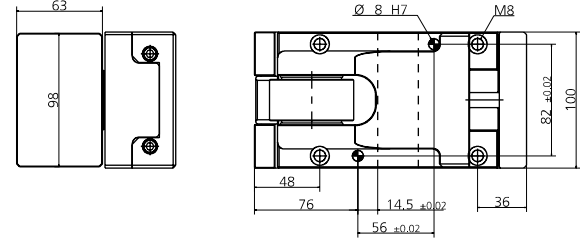
0149.K250 - CAM ROLLER K250

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

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

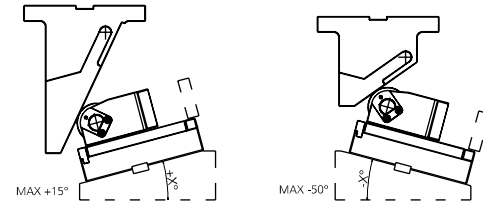


We suggest you to assembly by using a thrust mount key

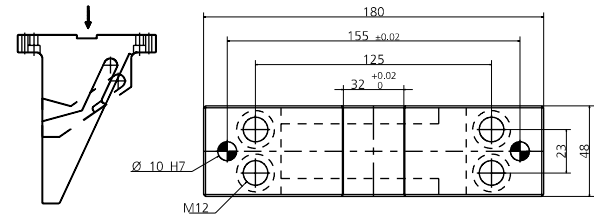


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.0250	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0200	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0200.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0200.002	PIASTRINA / PLATE / PLATTE	1
005	8088.0049.0200.003	PIASTRINA / PLATE / PLATTE	1
007	8005.0670.0517.250.001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

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

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

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

0149.P280 - CAM ROLLER P280

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE

170 daN

SFORZO MAX TRANCIO

7600 daN

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

CUTTING MAX FORCE

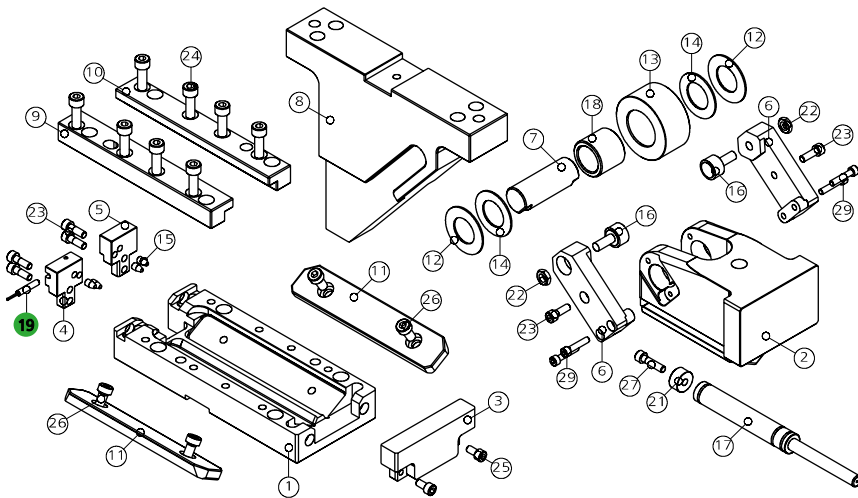
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION

340 daN

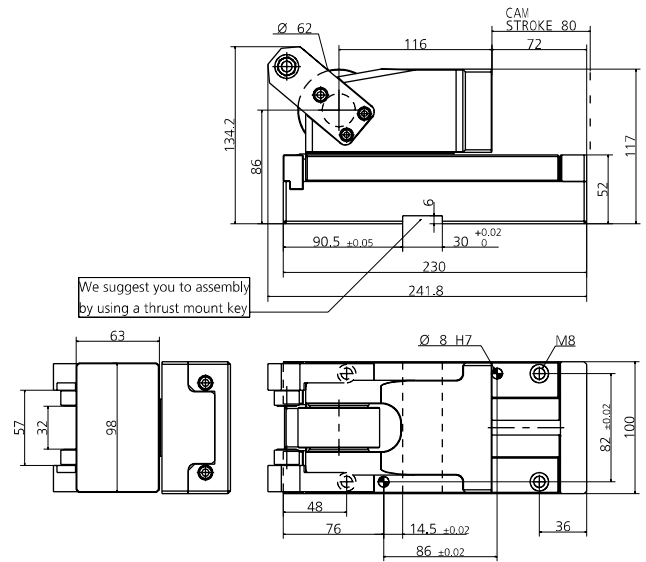
MAXIMALE SCHNITTKRAFT

ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

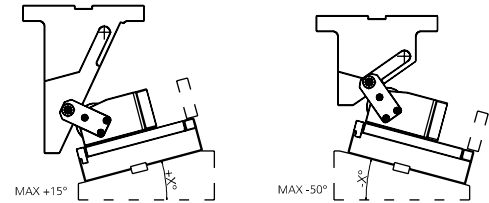
EFFORT MAXI DÉCOUPE



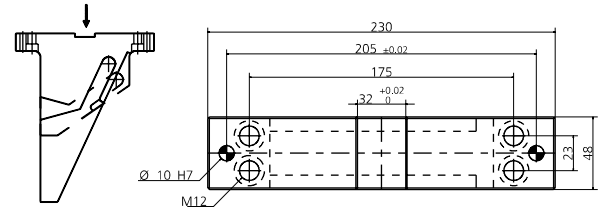
POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.0280	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0200	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0200.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0200.002	PIASTRINA / PLATE / PLATTE	1
005	8088.0049.0200.003	PIASTRINA / PLATE / PLATTE	1
006	8009.0049.0200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



POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

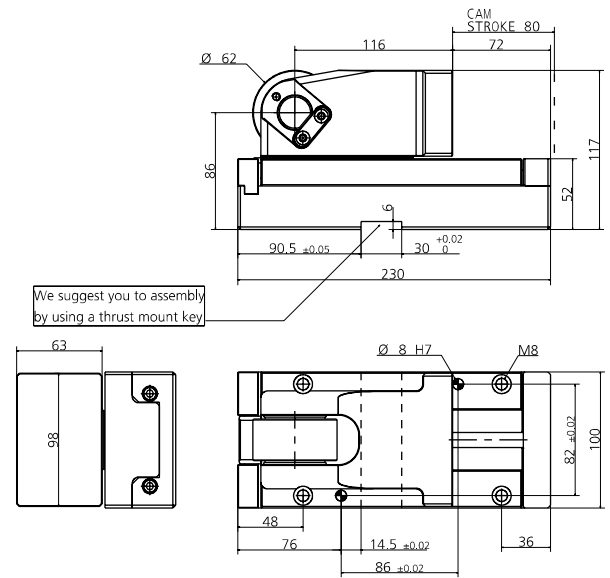
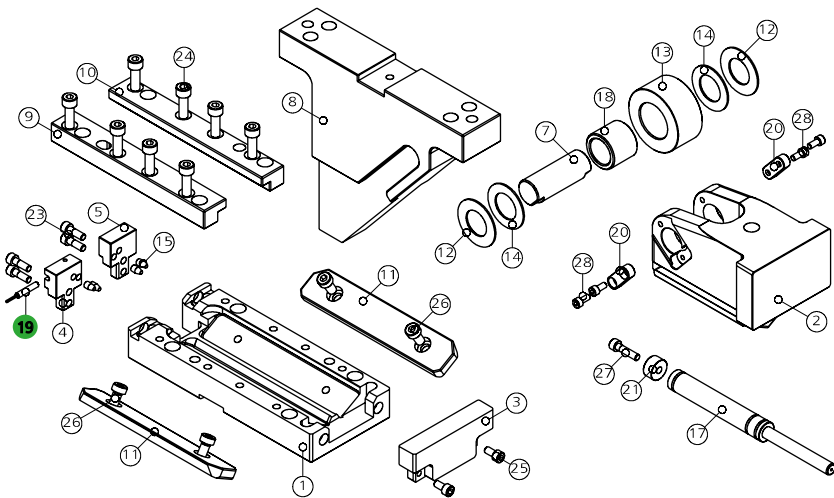
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

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

0149.K280 - CAM ROLLER K280

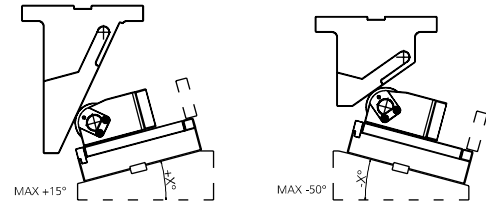
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **170 daN**
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **340 daN**
 ENDKRAFT DER EXTRAKTION / FORCE FINALE D'EXTRACTION

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

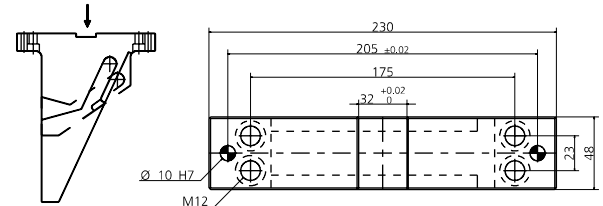


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.0280	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0200	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0200.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0200.002	PIASTRINA / PLATE / PLATTE	1
005	8088.0049.0200.003	PIASTRINA / PLATE / PLATTE	1
007	8005.0670.0517.250.001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

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

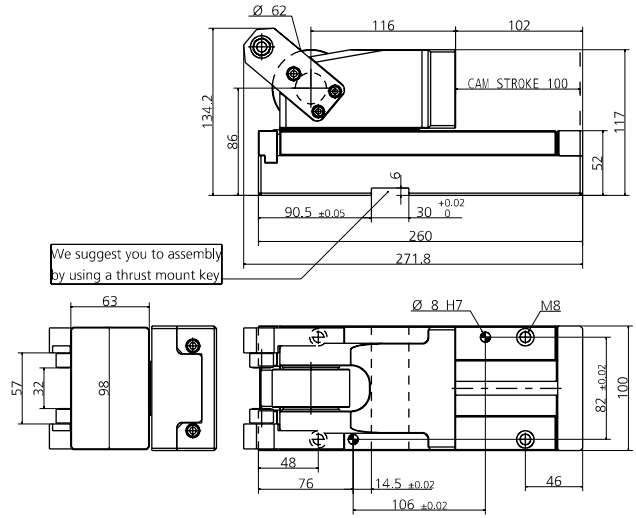
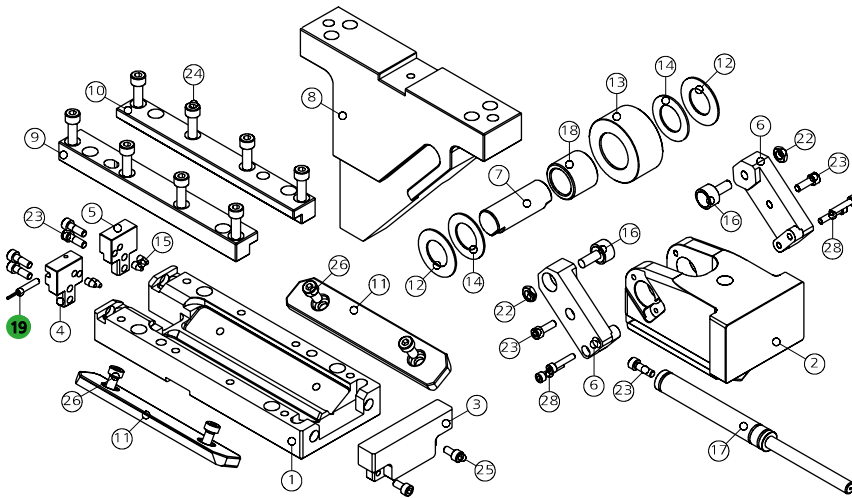
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

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

0149.P2A0 - CAM ROLLER P2A0

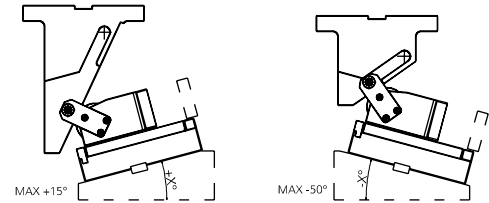
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE **170 daN**
 RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION
 FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION **360 daN**
 ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

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

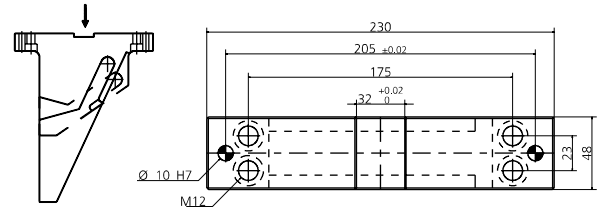


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.02A0	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0200	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0200.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0200.002	PIASTRINA / PLATE / PLATTE	1
005	8088.0049.0200.003	PIASTRINA / PLATE / PLATTE	1
006	8009.0049.0200	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 / UNTERLEGSCHIEBE	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 / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



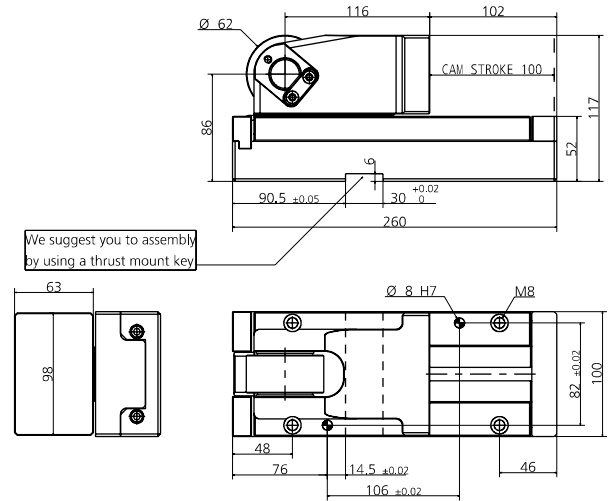
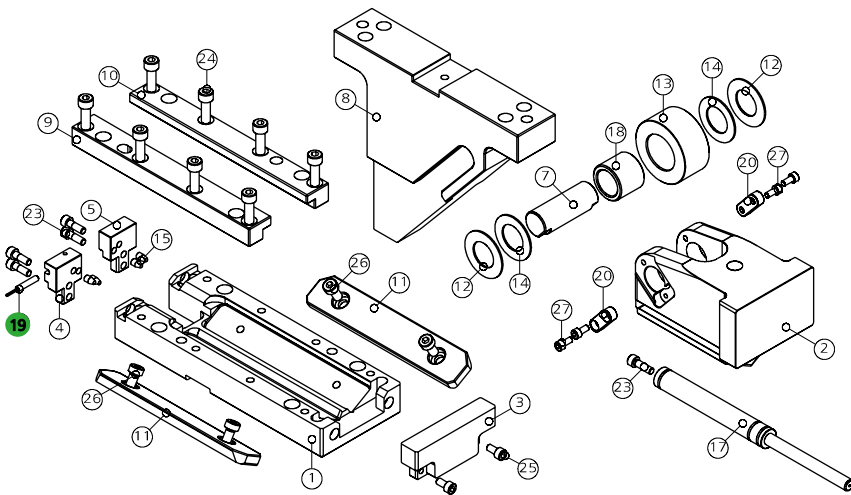
19 PATENT PENDING

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

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

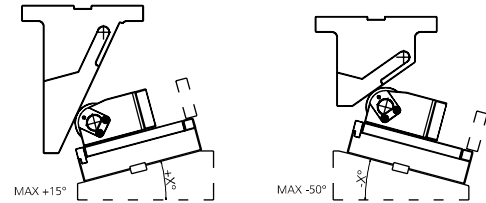
0149.K2A0 - CAM ROLLER K2A0

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

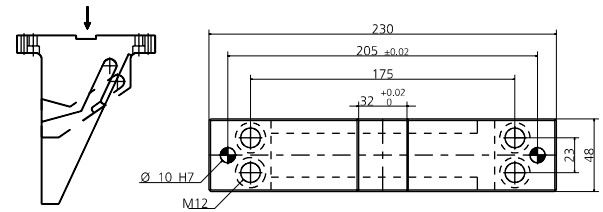


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.02A0	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0200	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0200.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0200.002	PIASTRINA / PLATE / PLATTE	1
005	8088.0049.0200.003	PIASTRINA / PLATE / PLATTE	1
007	8005.0670.0517.250.001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

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

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

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

0149.P350 - CAM ROLLER P350

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE

320 daN

SFORZO MAX TRANCIO 14200 daN

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

CUTTING MAX FORCE

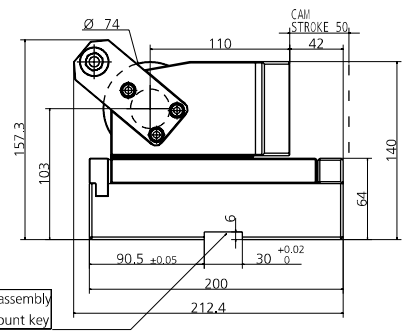
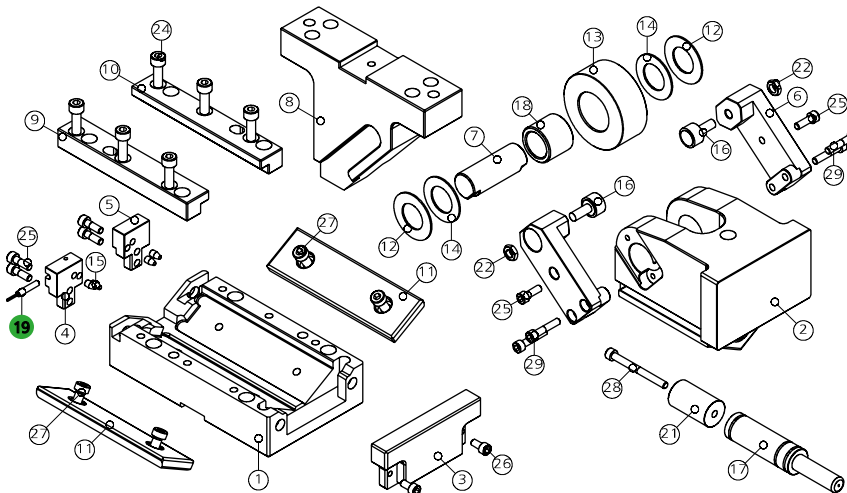
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION

636 daN

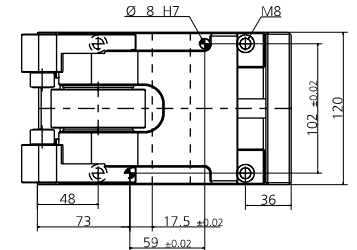
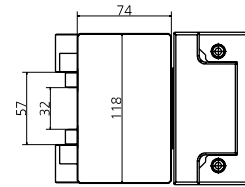
MAXIMALE SCHNITTKRAFT

ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

EFFORT MAXI DÉCOUPE

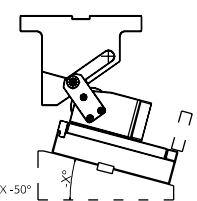
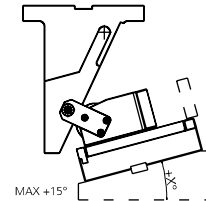


We suggest you to assembly by using a thrust mount key

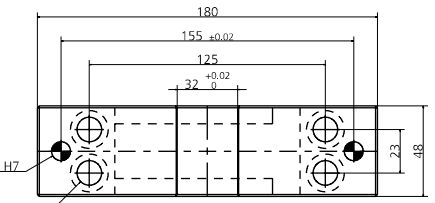
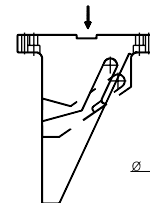


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.0350	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0300	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0300.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0300.002	PIASTRINA / PLATE / PLATTE	1
005	8088.0049.0300.003	PIASTRINA / PLATE / PLATTE	1
006	8009.0049.0300	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG	2
007	8005.0860.0677.300.001	PERNO / PIN / STIFT	1
008	8090.0203.0050.000	CUNEO / WEDGE / DRUCKSTÜCK 0	1*OPTION
008	8090.0203.0050.605	CUNEO / WEDGE / DRUCKSTÜCK +5	1*OPTION
008	8090.0203.0050.610	CUNEO / WEDGE / DRUCKSTÜCK +10	1*OPTION
008	8090.0203.0050.615	CUNEO / WEDGE / DRUCKSTÜCK +15	1*OPTION
008	8090.0203.0050.705	CUNEO / WEDGE / DRUCKSTÜCK -5	1*OPTION
008	8090.0203.0050.710	CUNEO / WEDGE / DRUCKSTÜCK -10	1*OPTION
008	8090.0203.0050.715	CUNEO / WEDGE / DRUCKSTÜCK -15	1*OPTION
008	8090.0203.0050.720	CUNEO / WEDGE / DRUCKSTÜCK -20	1*OPTION
008	8090.0203.0050.725	CUNEO / WEDGE / DRUCKSTÜCK -25	1*OPTION
008	8090.0203.0050.730	CUNEO / WEDGE / DRUCKSTÜCK -30	1*OPTION
008	8090.0203.0050.735	CUNEO / WEDGE / DRUCKSTÜCK -35	1*OPTION
008	8090.0203.0050.740	CUNEO / WEDGE / DRUCKSTÜCK -40	1*OPTION
008	8090.0203.0050.745	CUNEO / WEDGE / DRUCKSTÜCK -45	1*OPTION
008	8090.0203.0050.750	CUNEO / WEDGE / DRUCKSTÜCK -50	1*OPTION
009	8086.1620.0280.200.001	GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE	1
010	8086.1620.0280.200.002	GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE	1
011	8012.1570.0450.100.001	PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE	2
012	8006.0215.0560.305.001	RONDELLA / WASHER / 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 / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

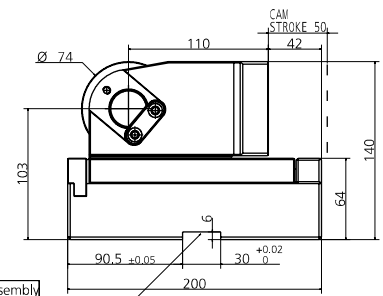
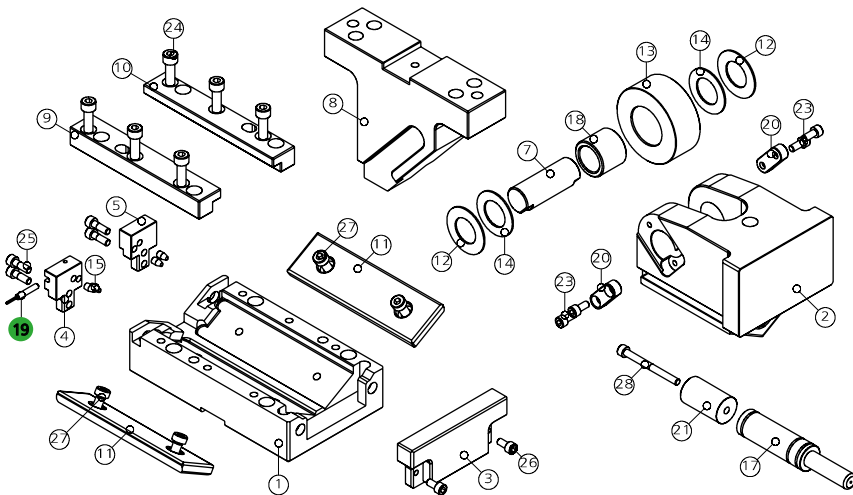
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

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

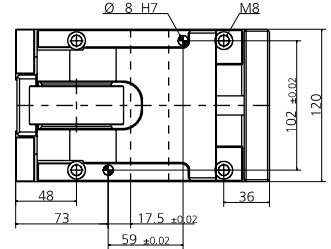
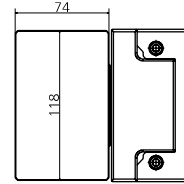
0149.K350 - CAM ROLLER K350

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

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

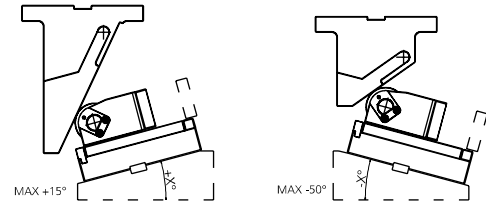


We suggest you to assembly by using a thrust mount key

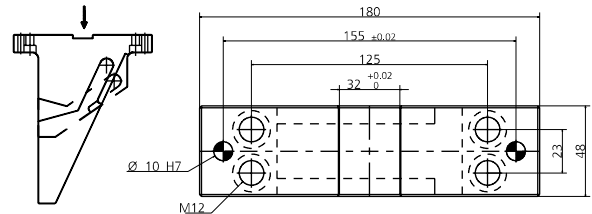


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.0350	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0300	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0300.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0300.002	PIASTRINA / PLATE / PLATTE	1
005	8088.0049.0300.003	PIASTRINA / PLATE / PLATTE	1
007	8005.0860.0677.300.001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

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

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

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

0149.P380 - CAM ROLLER P380

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE

320 daN

SFORZO MAX TRANCIO 14200 daN

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

CUTTING MAX FORCE

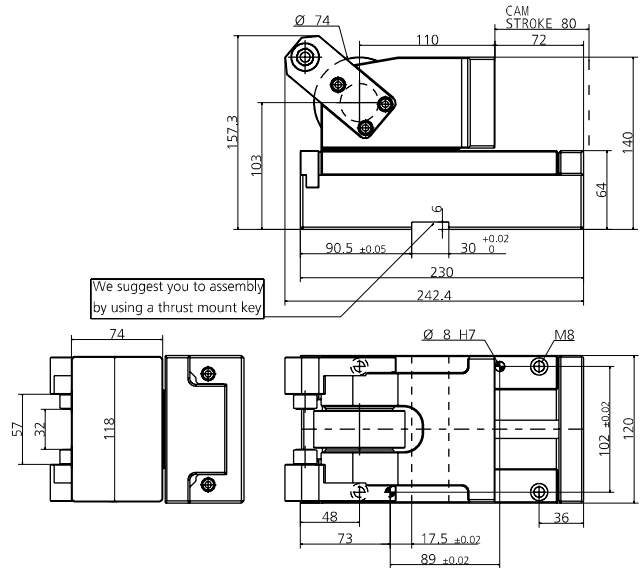
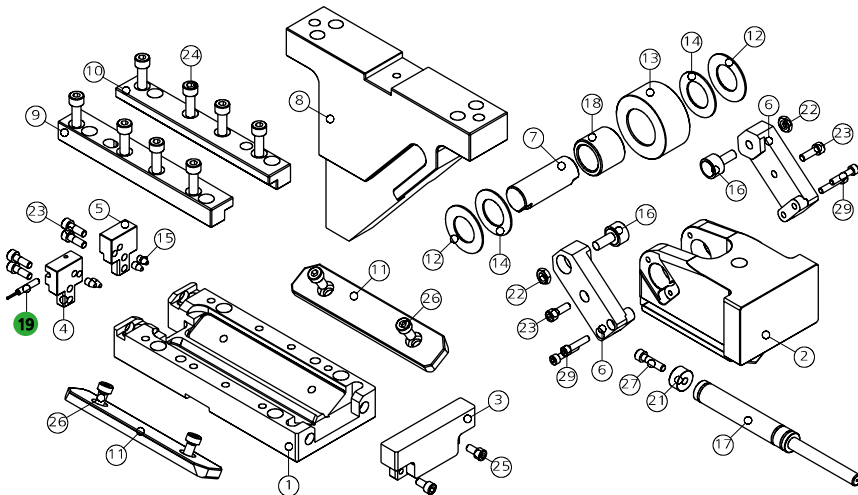
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION

643 daN

MAXIMALE SCHNITTKRAFT

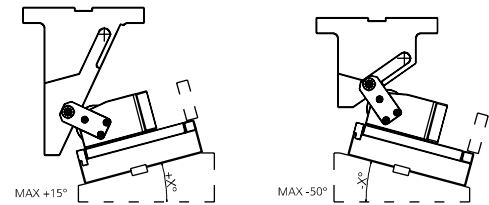
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

EFFORT MAXI DÉCOUPE

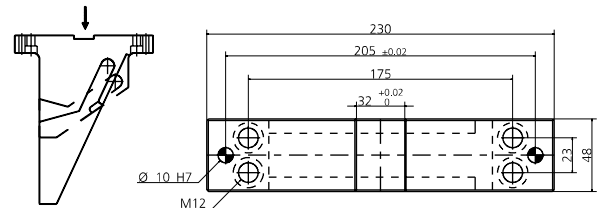


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.0380	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0300	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0300.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0300.002	PIASTRINA / PLATE / PLATTE	1
005	8088.0049.0300.003	PIASTRINA / PLATE / PLATTE	1
006	8009.0049.0300	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / BRACKETBEFESTIGUNG	2
007	8005.0860.0677.300.001	PERNO / PIN / STIFT	1
008	8090.0203.A080.000	CUNEO / WEDGE / DRUCKSTÜCK 0	1*OPTION
008	8090.0203.A080.605	CUNEO / WEDGE / DRUCKSTÜCK +5	1*OPTION
008	8090.0203.A080.610	CUNEO / WEDGE / DRUCKSTÜCK +10	1*OPTION
008	8090.0203.A080.615	CUNEO / WEDGE / DRUCKSTÜCK +15	1*OPTION
008	8090.0203.A080.705	CUNEO / WEDGE / DRUCKSTÜCK -5	1*OPTION
008	8090.0203.A080.710	CUNEO / WEDGE / DRUCKSTÜCK -10	1*OPTION
008	8090.0203.A080.715	CUNEO / WEDGE / DRUCKSTÜCK -15	1*OPTION
008	8090.0203.A080.720	CUNEO / WEDGE / DRUCKSTÜCK -20	1*OPTION
008	8090.0203.A080.725	CUNEO / WEDGE / DRUCKSTÜCK -25	1*OPTION
008	8090.0203.A080.730	CUNEO / WEDGE / DRUCKSTÜCK -30	1*OPTION
008	8090.0203.A080.735	CUNEO / WEDGE / DRUCKSTÜCK -35	1*OPTION
008	8090.0203.A080.740	CUNEO / WEDGE / DRUCKSTÜCK -40	1*OPTION
008	8090.0203.A080.745	CUNEO / WEDGE / DRUCKSTÜCK -45	1*OPTION
008	8090.0203.A080.750	CUNEO / WEDGE / DRUCKSTÜCK -50	1*OPTION
009	8086.1920.0280.200.001	GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE	1
010	8086.1920.0280.200.002	GUIDA ANGOLARE / SIDE PLATE L / WINKELFÜHRUNG FÜHRUNGSSCHIENE	1
011	8012.1800.0450.100.001	PIASTRA DI SCORRIMENTO / WEAR PLATE / DRUCKPLATTE	2
012	8006.0215.0560.305.001	RONDELLA / WASHER / 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 / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

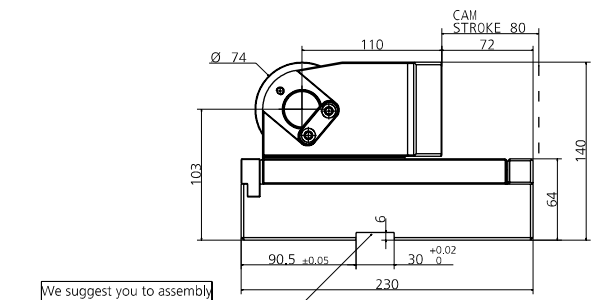
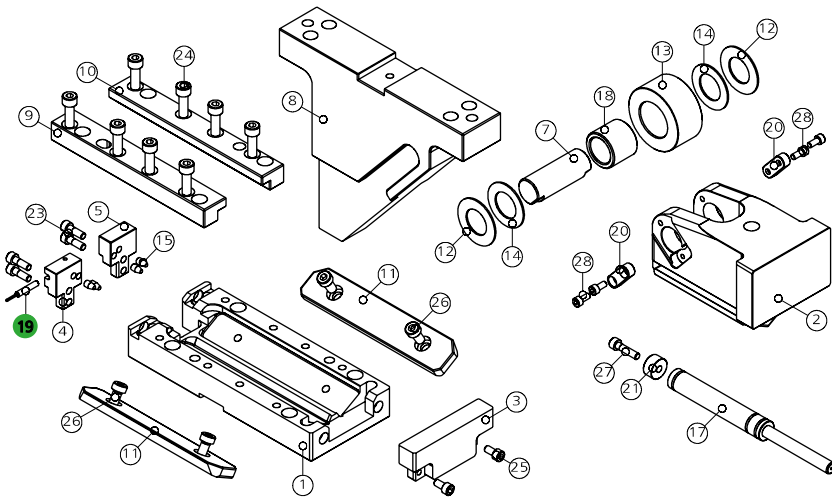
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

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

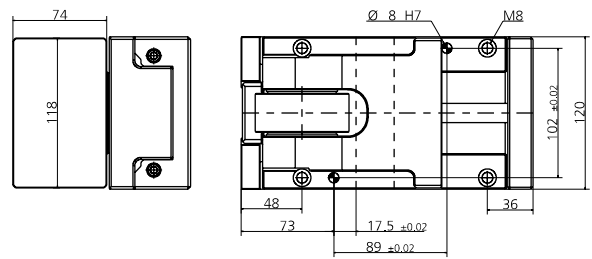
0149.K380 - CAM ROLLER K380

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

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

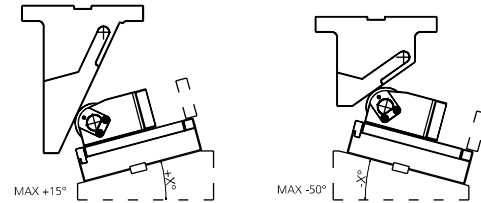


We suggest you to assembly by using a thrust mount key

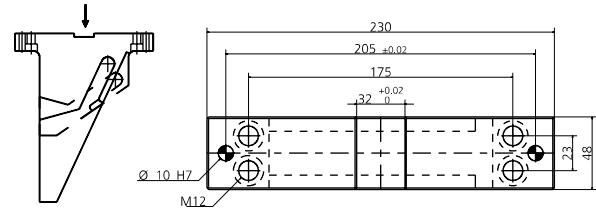


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.0380	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0300	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0300.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0300.002	PIASTRINA / PLATE / PLATTE	1
005	8088.0049.0300.003	PIASTRINA / PLATE / PLATTE	1
007	8005.0860.0677.300.001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

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

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

320 daN

SFORZO MAX TRANCIO 14200 daN

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

CUTTING MAX FORCE

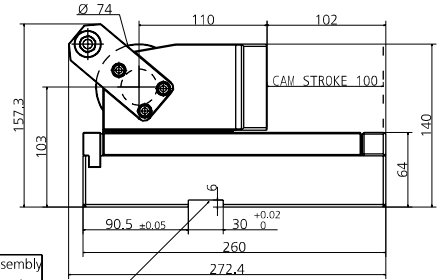
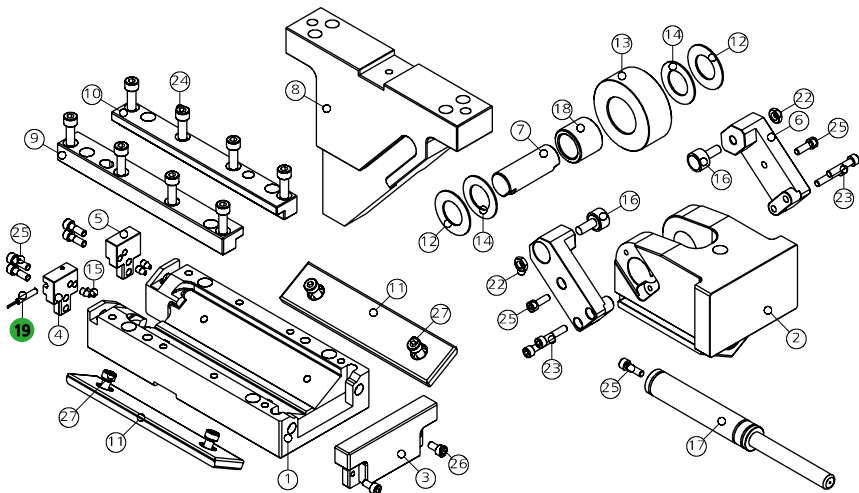
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION

646 daN

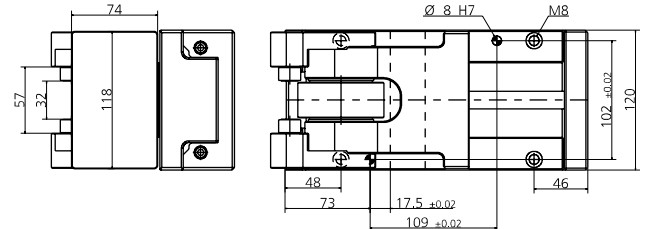
MAXIMALE SCHNITTKRAFT

ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

EFFORT MAXI DÉCOUPE

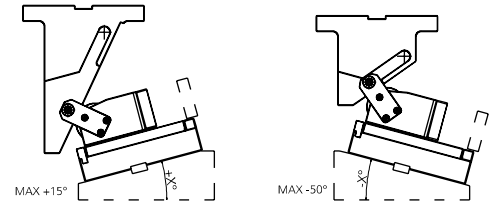


We suggest you to assembly by using a thrust mount key

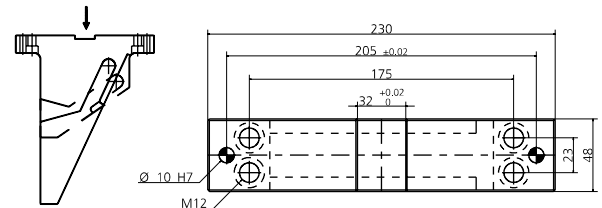


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.03A0	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0300	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0300.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0300.002	PIASTRINA / PLATE / PLATTE	1
005	8088.0049.0300.003	PIASTRINA / PLATE / PLATTE	1
006	8009.0049.0300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

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

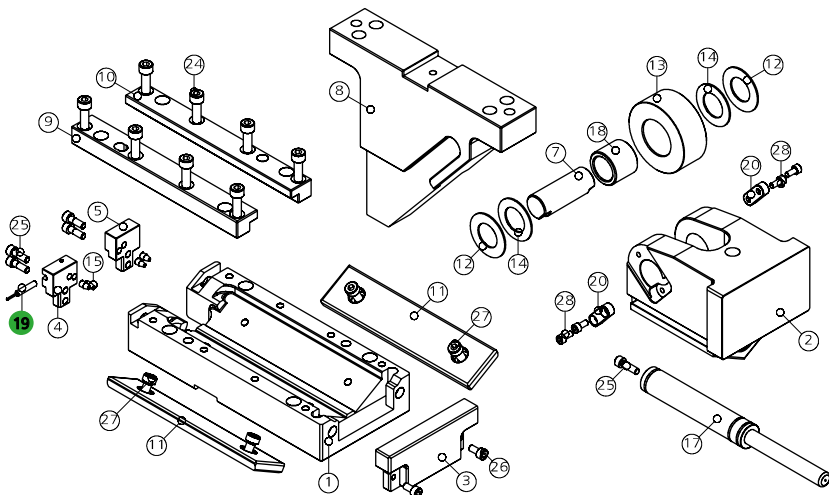
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

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

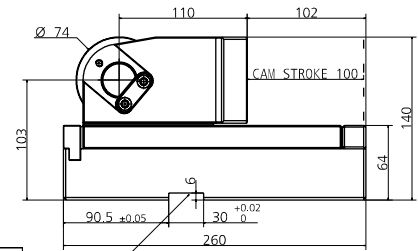
0149.K3A0 - CAM ROLLER K3A0

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

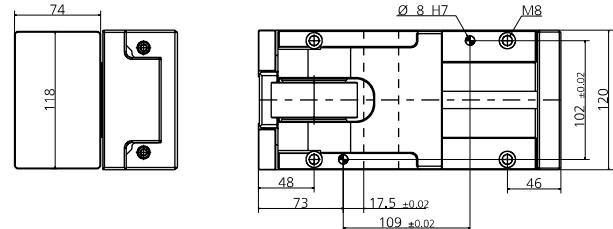
SFORZO MAX TRANCIO **14200 daN**
 CUTTING MAX FORCE
 MAXIMALE SCHNITTKRAFT
 EFFORT MAXI DÉCOUPE



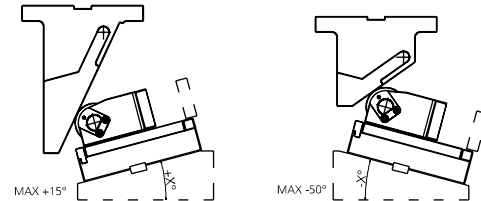
POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.03A0	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0300	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0300.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0300.002	PIASTRINA / PLATE / PLATTE	1
005	8088.0049.0300.003	PIASTRINA / PLATE / PLATTE	1
007	8005.0860.0677.300.001	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 / UNTERLEGSCHIBE	2
013	8004.0740.0305.380.001	ROTELLA / ROLLER / ROLLE	1
014	9033.3254.015	RALLA / THRUST WASHER / DRUCKSCHEIBE	2
015	9020.06.10.E090	PUNTALINO / BUMP STOP / DRUCKSTÜCK	4
017	9000.0100.0025.001	CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER	1
018	9035.3038.300.001	BOCCOLA / BUSH / BÜCHSE	1
019	9003.0002	SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT	1*OPTION
020	8087.0400.0140.090.001	CHIAVETTA / KEY / SCHLÜSSEL	2
023	9007.06.030.129.1.4762	VITE / SCREW / SCHRAUBE M6X30	2
024	9007.08.025.129.1.4762	VITE / SCREW / SCHRAUBE M8X25	8
025	9007.06.020.129.1.4762	VITE / SCREW / SCHRAUBE M6X20	4
026	9007.06.012.129.1.4762	VITE / SCREW / SCHRAUBE M6X12	2
027	9007.08.016.129.1.9327	VITE / SCREW / SCHRAUBE M8X16	4
028	9007.06.016.129.1.4762	VITE / SCREW / SCHRAUBE M6X16	3



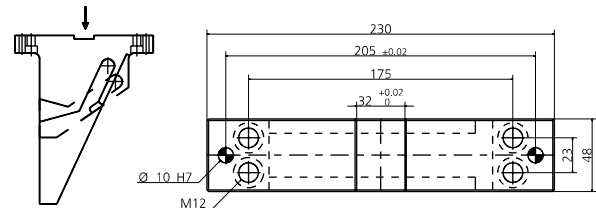
We suggest you to assembly by using a thrust mount key



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

350 daN

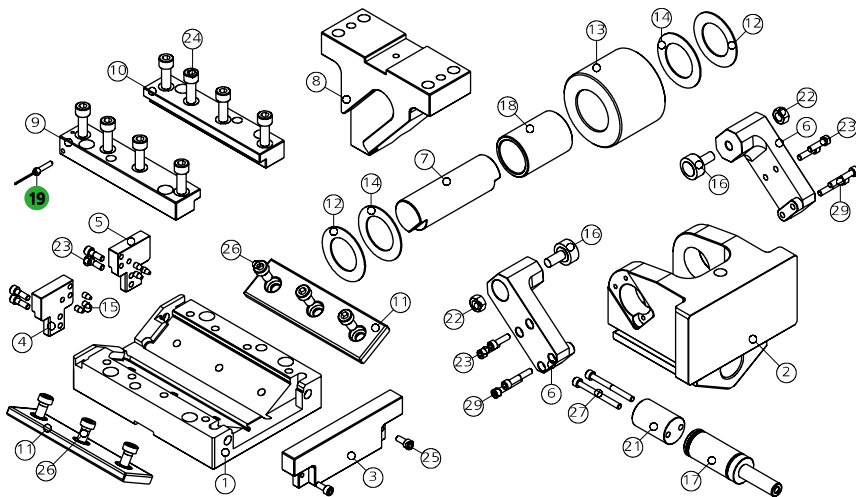
SFORZO MAX TRANCIO 16600 daN

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

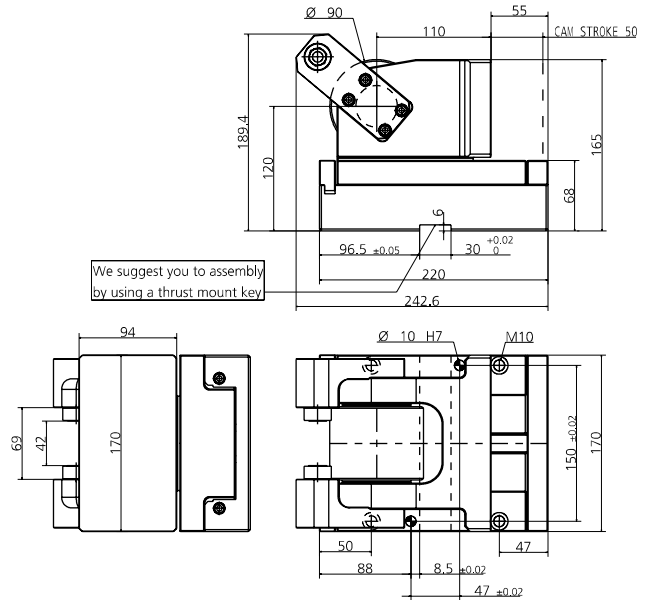
645 daN

CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE

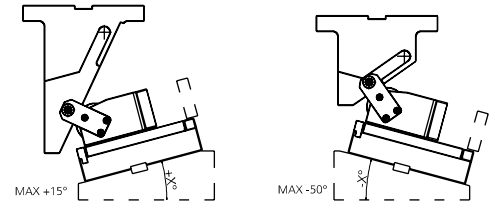
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION



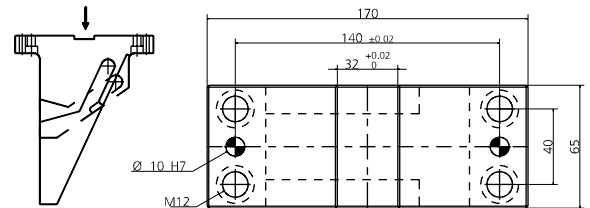
POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.0450	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0400	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0400.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0400.002	PIASTRINA / PLATE / PLATTE	1
005	8088.0049.0400.003	PIASTRINA / PLATE / PLATTE	1
006	8009.0049.0400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



POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

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

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

0149.K450 - CAM ROLLER K450

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

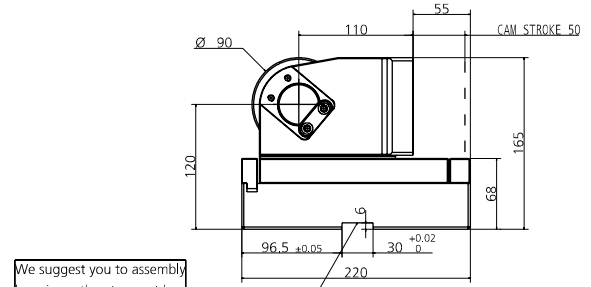
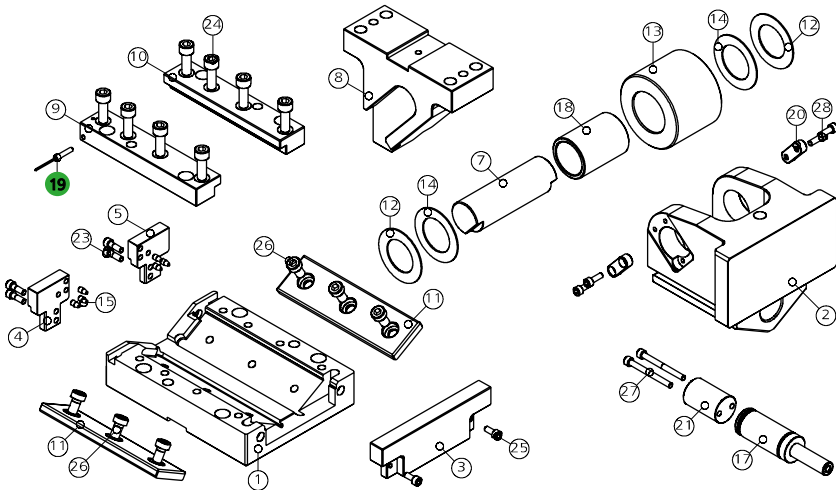
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

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

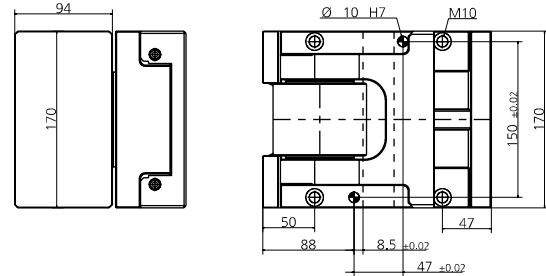
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO **16600 daN**

CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE

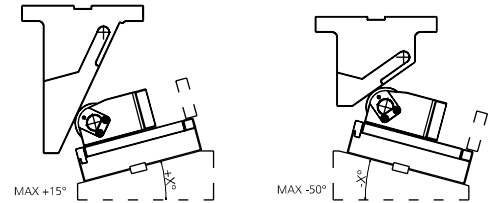


We suggest you to assembly by using a thrust mount key

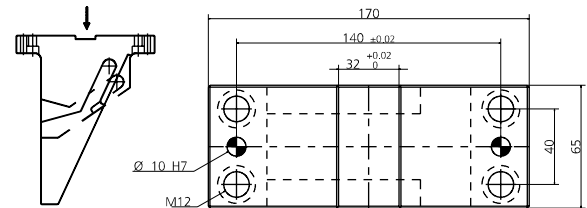


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.0450	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0400	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0400.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0400.002	PIASTRINA / PLATE / PLATTE	1
005	8088.0049.0400.003	PIASTRINA / PLATE / PLATTE	1
007	8005.1250.1067.400.001	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 / BÜCHSE	1
019	9003.0002	SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT	1*OPTION
020	8087.0400.0140.090.001	CHIAVETTA / KEY / SCHLÜSSEL	2
021	8089.0328.0500.001	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 / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

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

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

0149.P480 - CAM ROLLER P480

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE

350 daN

SFORZO MAX TRANCIO 16600 daN

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

CUTTING MAX FORCE

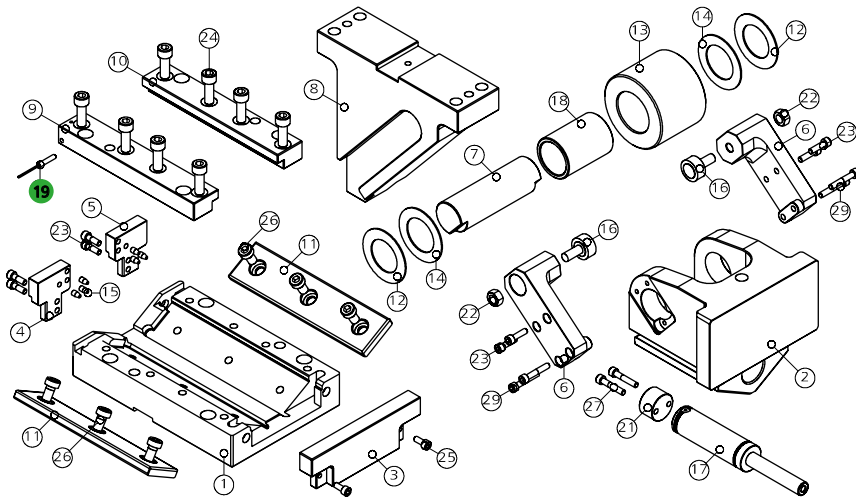
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION

657 daN

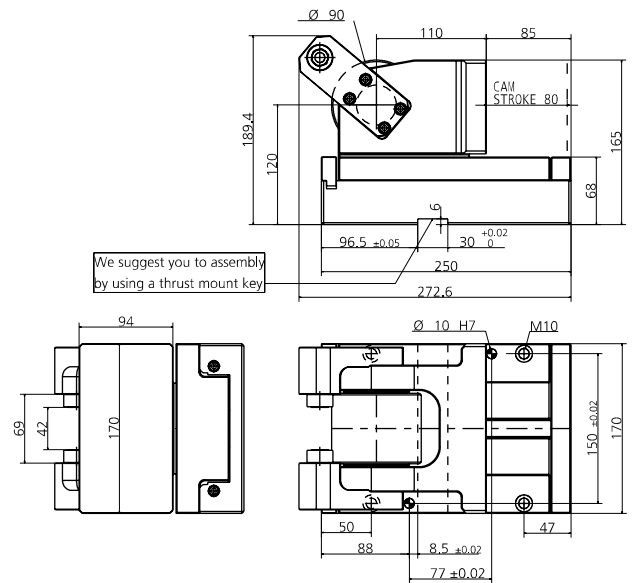
MAXIMALE SCHNITTKRAFT

ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

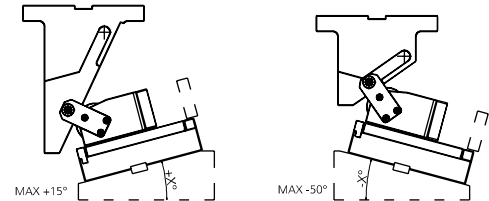
EFFORT MAXI DÉCOUPE



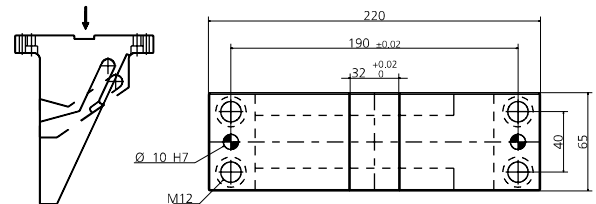
POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.0480	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0400	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0400.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0400.002	PIASTRINA / PLATE / PLATTE	1
005	8088.0049.0400.003	PIASTRINA / PLATE / PLATTE	1
006	8009.0049.0400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



POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

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

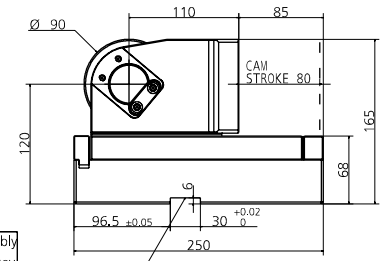
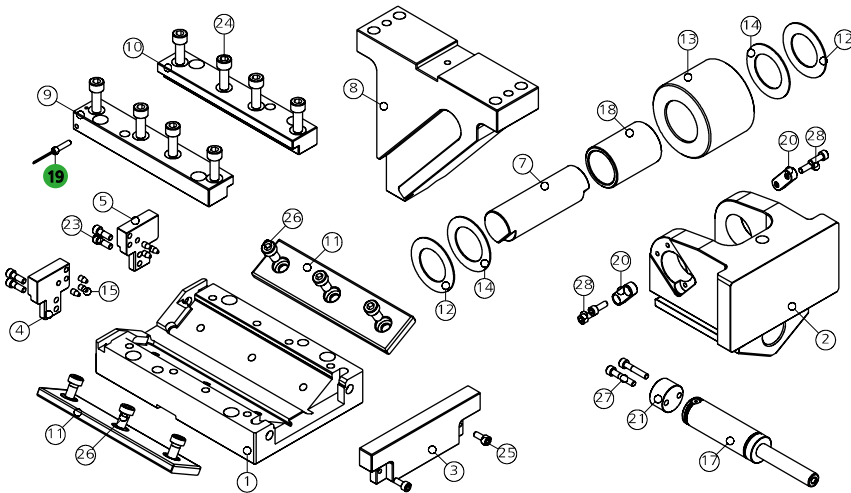
MODEL **0149.P480** INCLINATION **+10°** OPTION CODE **9003.0002**

0149.K480 - CAM ROLLER K480

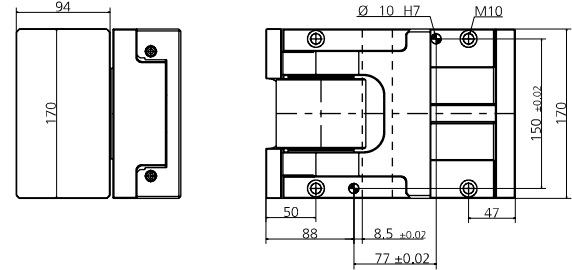
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

350 daN
657 daN

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

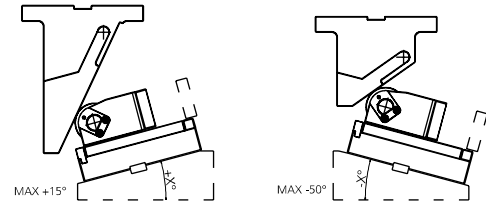


We suggest you to assembly by using a thrust mount key

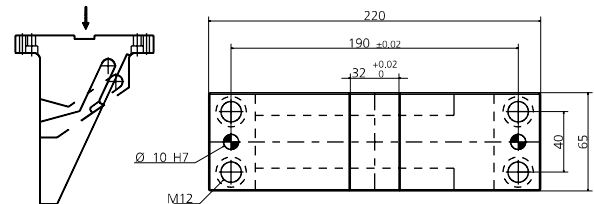


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.0480	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0400	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0400.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0400.002	PIASTRINA / PLATE / PLATTE	1
005	8088.0049.0400.003	PIASTRINA / PLATE / PLATTE	1
007	8005.1250.1067.400.001	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 / BÜCHSE	1
019	9003.0002	SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT	1*OPTION
020	8087.0400.0140.090.001	CHIAVETTA / KEY / SCHLÜSSEL	2
021	8089.0328.0200.001	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 / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

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

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

0149.P4A0 - CAM ROLLER P4A0

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE

350 daN

SFORZO MAX TRANCIO 16600 daN

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

CUTTING MAX FORCE

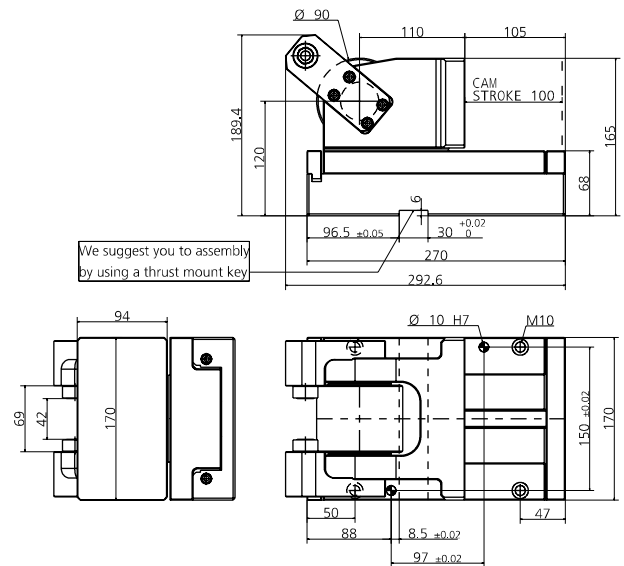
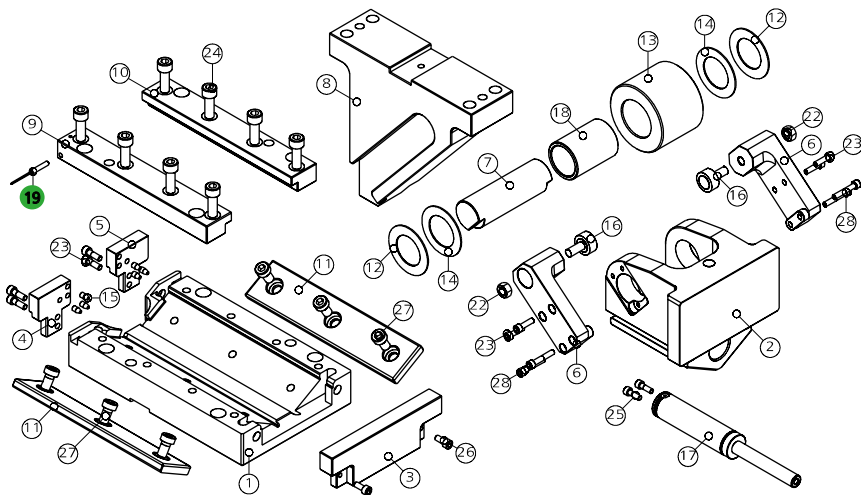
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION

661 daN

MAXIMALE SCHNITTKRAFT

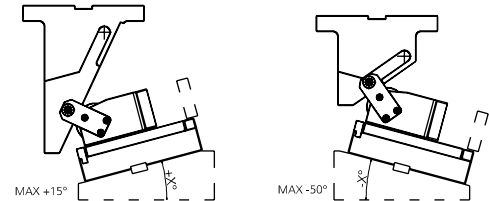
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

EFFORT MAXI DÉCOUPE

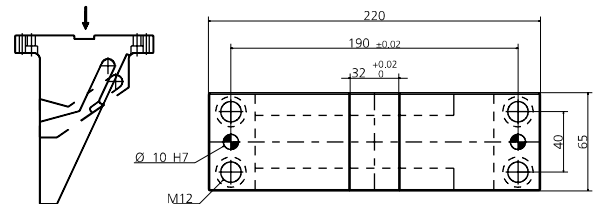


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.04A0	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0400	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0400.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0400.002	PIASTRINA / PLATE / PLATTE	1
005	8088.0049.0400.003	PIASTRINA / PLATE / PLATTE	1
006	8009.0049.0400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

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

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

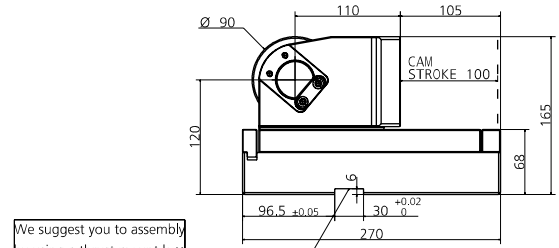
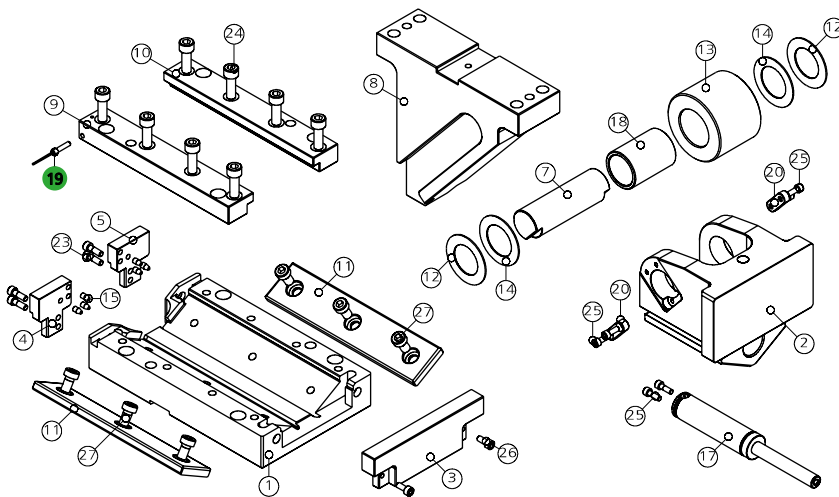
MODEL **0149.P4A0** INCLINATION **+10°** OPTION CODE **9003.0002**

0149.K4A0 - CAM ROLLER K4A0

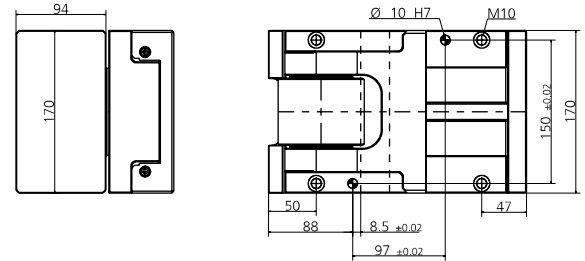
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

350 daN
661 daN

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



We suggest you to assembly by using a thrust mount key

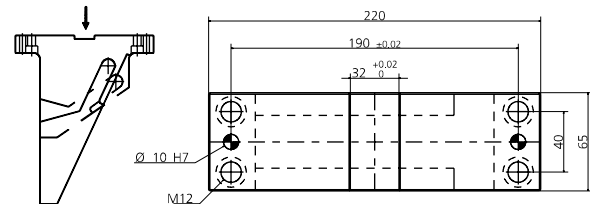


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.04A0	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0400	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0400.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0400.002	PIASTRINA / PLATE / PLATTE	1
005	8088.0049.0400.003	PIASTRINA / PLATE / PLATTE	1
007	8005.1250.1067.400.001	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 / BÜCHSE	1
019	9003.0002	SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT	1*OPTION
020	8087.0400.0140.090.001	CHIAVETTA / KEY / SCHLÜSSEL	2
023	9007.06.020.129.1.4762	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 / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

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

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

0149.P550 - CAM ROLLER P550

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE

500 daN

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

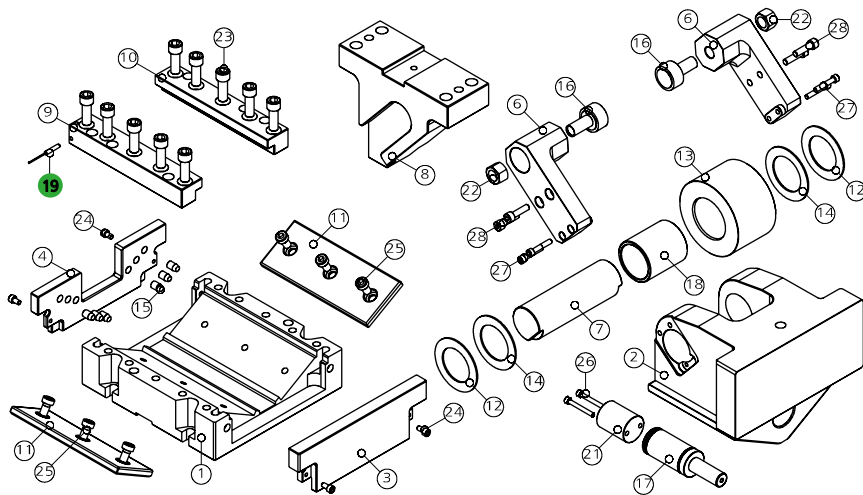
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION

926 daN

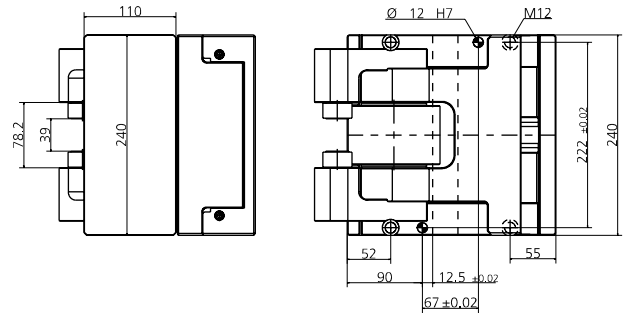
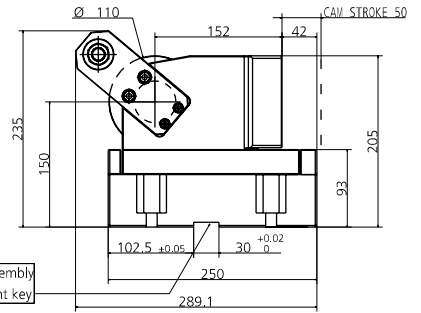
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO 25800 daN

CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



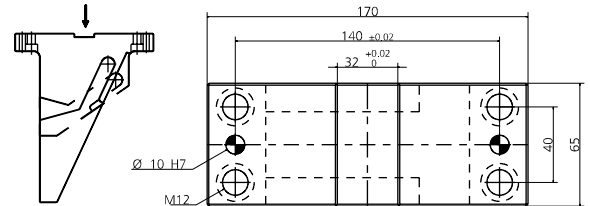
POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.0550	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0500	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0500.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0500.002	PIASTRINA / PLATE / PLATTE	1
006	8009.0049.0500	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS /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



POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

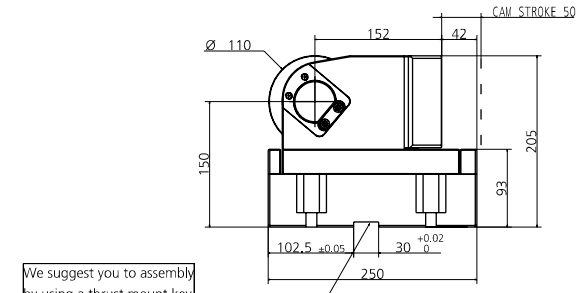
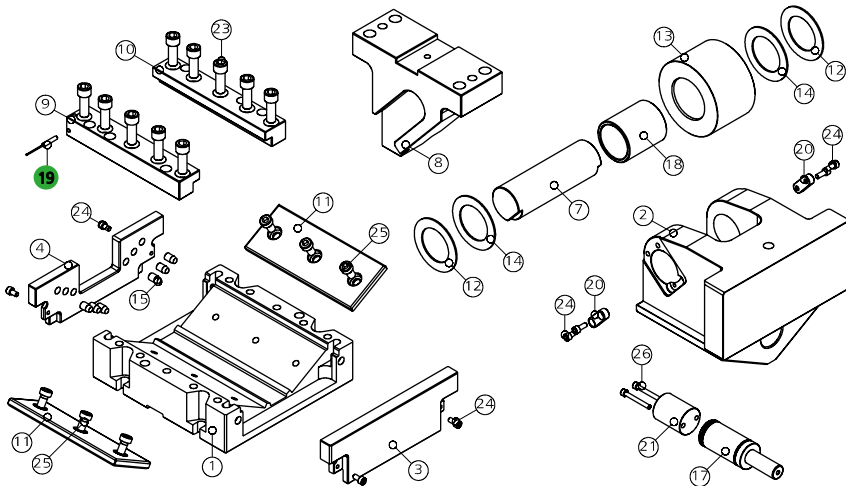
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

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

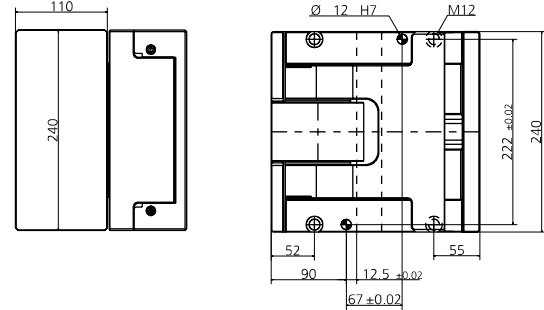
0149.K550 - CAM ROLLER K550

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

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

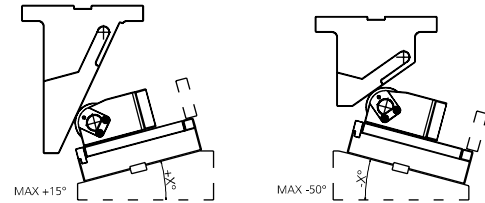


We suggest you to assembly by using a thrust mount key

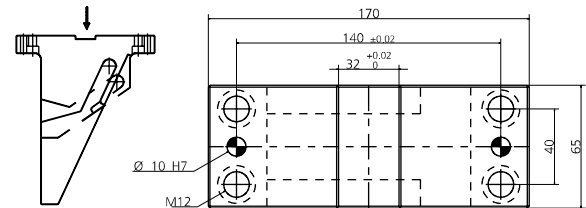


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.0550	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0500	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0500.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0500.002	PIASTRINA / PLATE / PLATTE	1
007	8005.1550.1417.500.001	PERNO / PIN / STIFT	1
008	8090.0405.0050.000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

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

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

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

0149.P580 - CAM ROLLER P580

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE

500 daN

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

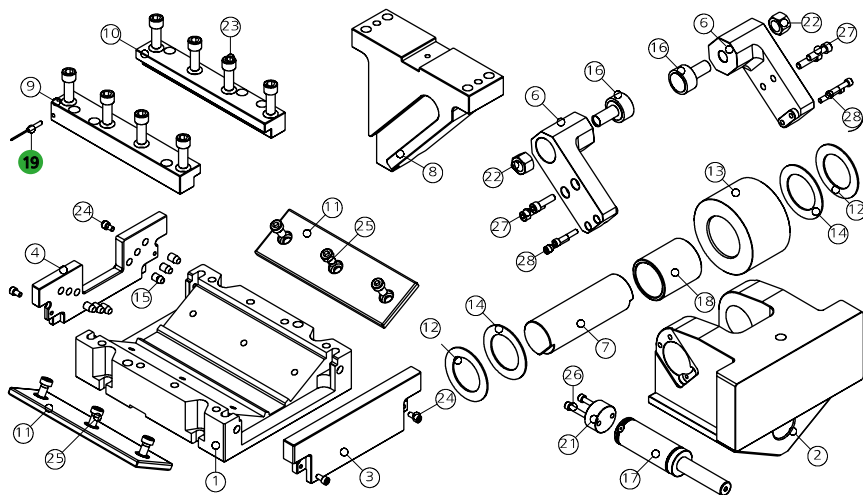
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION

936 daN

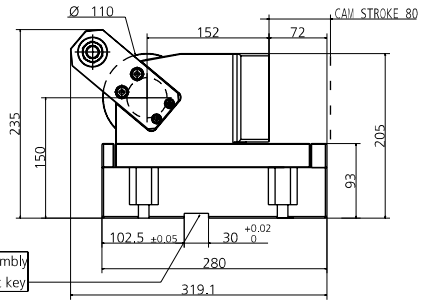
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

SFORZO MAX TRANCIO 25800 daN

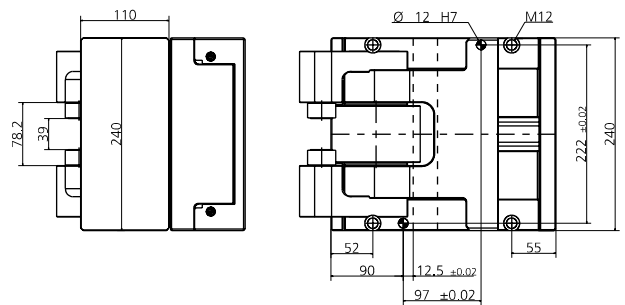
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



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



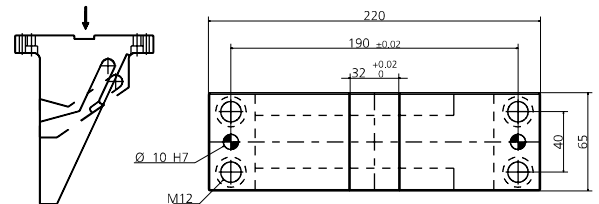
We suggest you to assembly by using a thrust mount key



POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

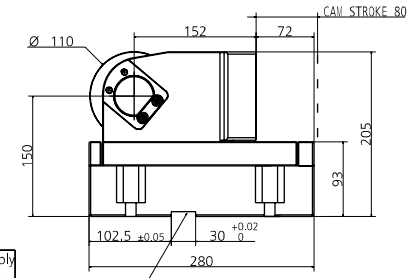
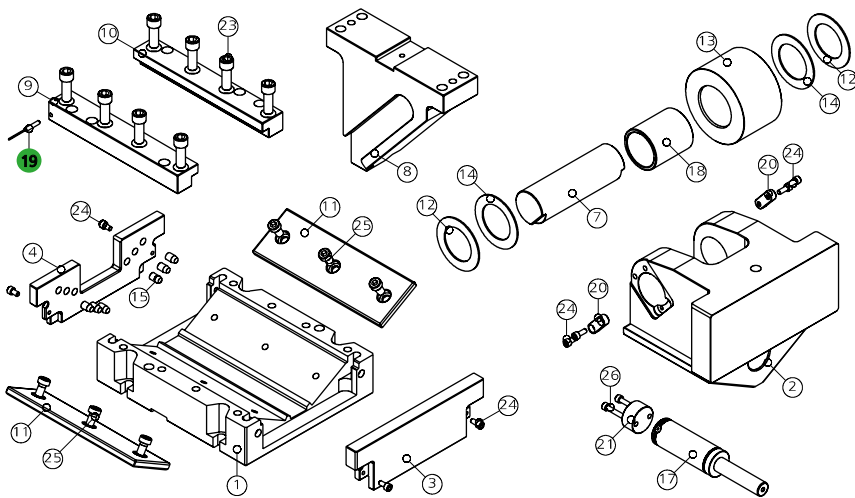
MODELLO D'ORDINE / ORDER EXAMPLE / BESTELLBEISPIEL / MODÈLE DE COMMANDE

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

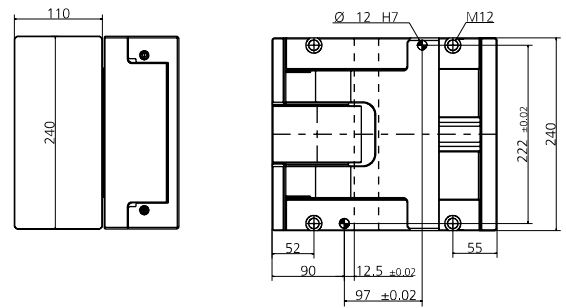
0149.K580 - CAM ROLLER K580

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

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

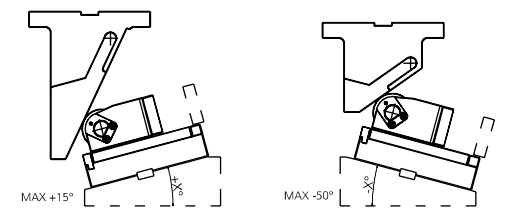


We suggest you to assembly by using a thrust mount key

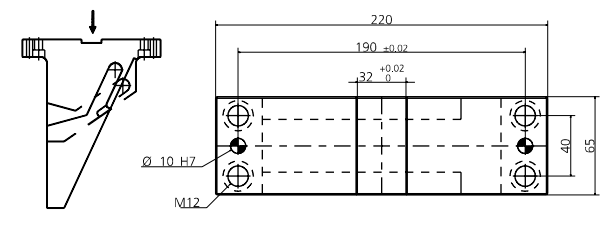


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.0580	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0500	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0500.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0500.002	PIASTRINA / PLATE / PLATTE	1
007	8005.1550.1417.500.001	PERNO / PIN / STIFT	1
008	8090.0405.A080.000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

POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

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

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

0149.P5A0 - CAM ROLLER P5A0

FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE

500 daN

RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION

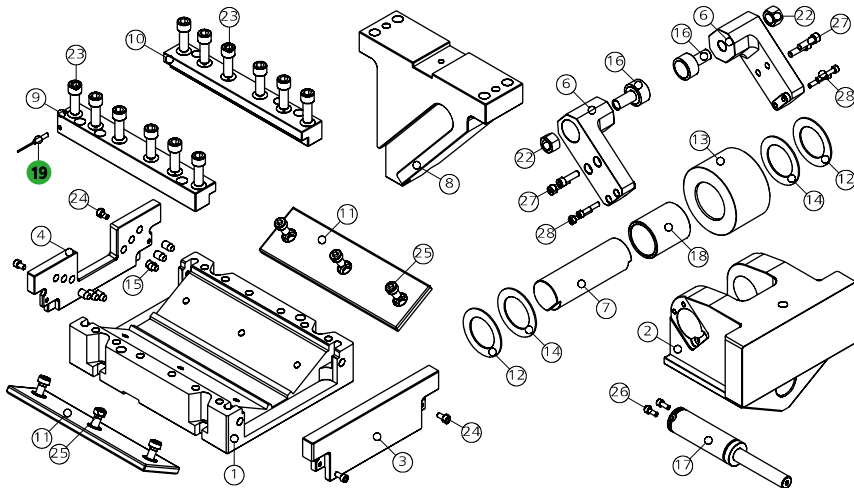
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION

938 daN

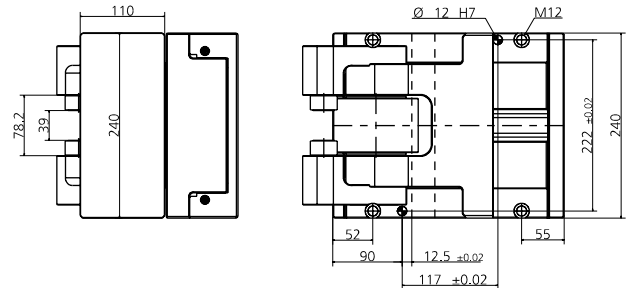
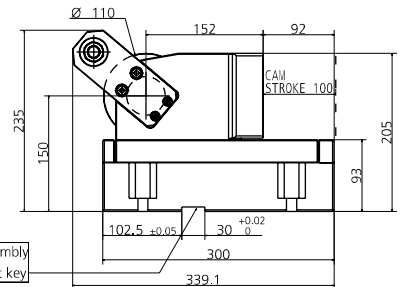
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SFORZO MAX TRANCIO 25800 daN

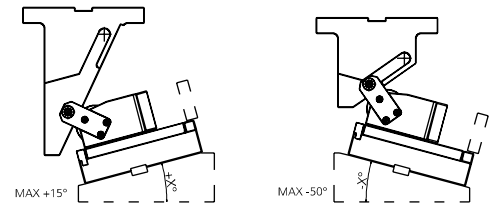
CUTTING MAX FORCE
MAXIMALE SCHNITTKRAFT
EFFORT MAXI DÉCOUPE



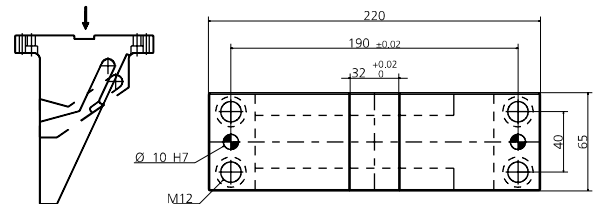
POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.05A0	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0500	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0500.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0500.002	PIASTRINA / PLATE / PLATTE	1
006	8009.0049.0500	STAFFA DI AGGANCIO / BRACKET ATTACHMENTS / 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 / UNTERLEGSCHIBE	2
013	8004.1100.0705.600.001	ROTELLA / ROLLER / ROLLE	1
014	9033.5278.020	RALLA / THRUST WASHER / DRUCKSCHEIBE	2
015	9020.10.15.E090	PUNTALINO / BUMP STOP / DRUCKSTÜCK	6
016	8005.0530.0190.350.001	PERNO / PIN / STIFT	2
017	9000.0100.0038.001	CILINDRO AD AZOTO / NITROGEN CYLINDER / STICKSTOFFZYLINDER	1
018	9035.5060.700.001	BOCCOLA / BUSH / BUCHSE	1
019	9003.0002	SENSORE DI SICUREZZA / SECURITY SENSOR / SENSOR FÜR SICHERHEIT	1*OPTION
022	9014.16.016.008.1.4032	DADO / NUT / MUTTER M16	2
023	9007.12.035.129.1.4762	VITE / SCREW / SCHRAUBE M12X35	12
024	9007.06.012.129.1.4762	VITE / SCREW / SCHRAUBE M6X12	4
025	9007.10.020.129.1.9327	VITE / SCREW / SCHRAUBE M10X20	6
026	9007.06.025.129.1.4762	VITE / SCREW / SCHRAUBE M6X25	2
027	9007.08.030.129.1.4762	VITE / SCREW / SCHRAUBE M8X30	4
028	9007.06.035.129.1.4762	VITE / SCREW / SCHRAUBE M6X35	4



POSSIBILI INCLINAZIONI / POSSIBLE INCLINATIONS / MÖGLICHE NEIGUNGEN



008 (8090) CUNEO / WEDGE / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

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

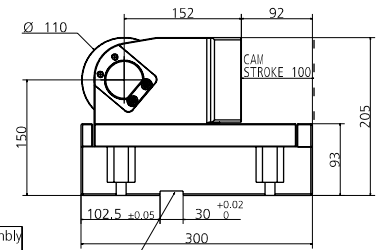
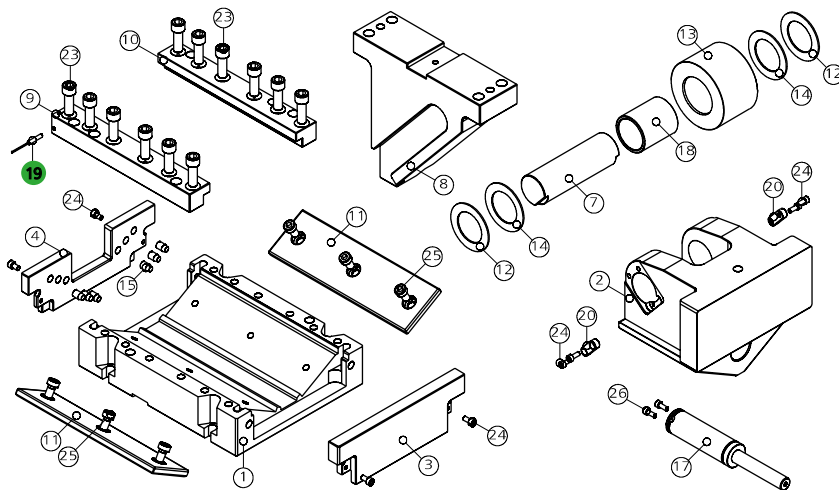
MODEL **0149.P5A0** INCLINATION **+10°** OPTION CODE **9003.0002**

0149.K5A0 - CAM ROLLER K5A0

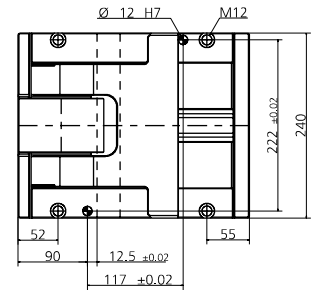
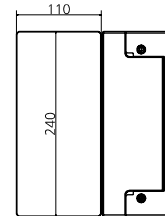
FORZA INIZIALE DI ESTRAZIONE / INITIAL EXTRACTION FORCE
RÜCKZUGSKRAFT / FORCE INITIALE D'EXTRACTION
FORZA FINALE DI ESTRAZIONE / FINAL FORCE OF EXTRACTION
ENDKRAFT DER EXTRACTION / FORCE FINALE D'EXTRACTION

500 daN
938 daN

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



We suggest you to assembly by using a thrust mount key

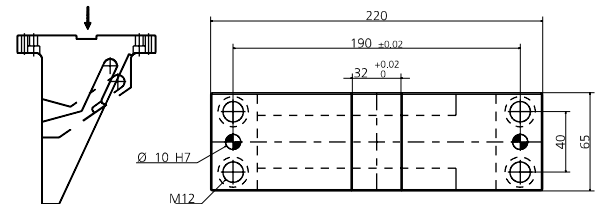


POS.	CODE	DESCRIPTION	Q.TY
001	8000.0049.05A0	CORPO CAMMA / CAM BODY / GRUNDGEHÄUSE	1
002	8007.0049.0500	SLITTA / SLIDER / LAGERKEIL	1
003	8088.0049.0500.001	PIASTRINA / PLATE / PLATTE	1
004	8088.0049.0500.002	PIASTRINA / PLATE / PLATTE	1
007	8005.1550.1417.500.001	PERNO / PIN / STIFT	1
008	8090.0405.A080.000	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 / UNTERLEGSCHIBE	2
013	8004.1100.0705.600.001	ROTELLA / ROLLER / ROLLE	1
014	9033.5278.020	RALLA / THRUST WASHER / DRUCKSCHEIBE	2
015	9020.10.15.E090	PUNTALINO / BUMP STOP / DRUCKSTÜCK	6
017	9000.0100.0038.001	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 / DRUCKSTÜCK



019 (9003) SENSORE / SENSOR / SENSOR



19 PATENT PENDING

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

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