01 Contropunte
Punte fisse

CONTROPUNTE GIREVOLE PER TORNITURA E RETTIFICA
LIVE CENTER FOR TURNING OR GRINDING
MITLAUFENDE REITSTOCKSPITZEN ZUM DREHEN UND SCHLEIFEN

SERIE SP-CD 5

CONTROPUNTA CON SISTEMA A CARICO DIFFERENZIATO
LIVE CENTER WITH DIFFERENTIAL LOAD
MITLAUFENDE REITSTOCKSPITZEN MIT DIFFERENZIERTER AXIALBELASTUNG

CONO MORSE 3-4-5 / CILINDRICA Ø.22-28-32
MORSE TAPER 3-4-5 / CYLINDRICAL Ø.22-28-32
MORSE KONUS 3-4-5 / ZYLINDRISCH Ø.22-28-32

Adatta per lavorazioni su torni con due mandrini o due torrette / Suitable for working on lathe with 2 mandrel and/or with 2 turrets
Geeignet für Bearbeitung von Drehmaschine mit zwei Spindel und/oder mit zwei Drehkopf

SERIE POWER 60°-T-FS-INTERCHANGEABLE-CASE / MIT AUSWECHSELBARER SPITZE 9

CONTROPUNTA AD ALTA PRECISIONE
CON GHIERA D'ESTRAZIONE
HIGH PRECISION LIVE CENTER WITH DRAW-OFF NUT
MITLAUFENDE REITSTOCKSPITZEN MIT HOHE GENAUIGKEIT UND MIT ANSATZRING

CONO MORSE 3-4-5-6 / CUSPIDE IN GEOMETRIA
CUSPIDE INTERCAMBIABILE / DOPPIA INCLINAZIONE
MORSE TAPER 3-4-5-6 / POINT AT 60°/ INTERCHANGEABLE POINTS/STUBBED
POINT/60° SPITZE /MIT AUSWECHSELBARER SPITZE/MIT VERLÄNGERTER INTEGRALWELLE/ MORSE KONUS 3-4-5

Adatte per lavorazioni su torni CNC sia ad alta velocita e/o con elevate asportazioni di truciolo. Contropunta molto versatile / Suitable for high speed working or high cutting tool working on NC lathe. Versatile live center / Geeignet für "high-speed" oder Schneidwerkzeug Bearbeitung mit NC Drehmaschinen. Vielseitige Mitlaufende Reitstockspitzen

SERIE POWER-P 13

CONTROPUNTA AD ALTO CARICO SOPPORTATO
CON GHIERA D'ESTRAZIONE
HIGH LOAD LIVE CENTER WITH DRAW-OFF NUT
HOHE BELASTUNG MITLAUFENDE REITSTOCKSPITZEN

CONO MORSE 3-4-5-6-7-M80-M100 /
CUSPIDE IN GEOMETRIA: 60° / CUSPIDE PORTA FLANGE
MORSE TAPER 3-4-5-6-7-ME80-ME100 /
POINT AT 60°/ HEAD CARRYING LIVE CENTER
MORSE KONUS 3-4-5-M80-M100 /
60° SPITZE /REITSTOCKSPITZE MIT KEGELRINGHALTER

Adatte per lavorazioni gravose su torni CN ad alto carico ed elevate asportazioni di trucciolo. Contropunta molto robusta / Suitable for heavy working or high cutting tool working on NC lathe. Strong live center / Geeignet für "high-speed" oder Schneidwerkzeug Bearbeitung mit NC Drehmaschinen. Schwere Mitlaufende Reitstockspitzen

SERIE POWER-MF 14

CONTROPUNTA A FUNGO INTEGRALE 60° SPECIFICA PER TUBI
LIVE CENTER WITH INTEGRAL POINT AT 60° FOR TUBES
MITLAUFENDE REITSTOCKSPITZEN MIT INTEGRALWELLE 60°FÜR RÖHRE

CONO MORSE: 3-4-5-6 / CUSPIDE IN GEOMETRIA:
60° INTEGRALE
MORSE TAPER 3-4-5-6 / INTEGRAL POINT AT 60°
MORSE TAPER 3-4-5/INTEGRALWELLE 60°

Adatte per lavorazioni leggere su TUBI. Contropunta specialistica / Suitable for light working on tubes
Geeignet für leicht Bearbeitung für Röhre

SERIE POWER-R PER RETTIFICA / FOR GRINDING / ZUM SCHLEIFEN 15

CONTROPUNTA CON CUSPIDE IN METALLO DURO
SPECIFICA PER LAVORAZIONI DI RETTIFICA
LIVE CENTER WITH CARBIDE FOR GRINDING
MITLAUFENDE REITSTOCKSPITZEN MIT HARTMETALLEINSATZ ZUM SCHLEIFEN

CONO MORSE: 3-4-5 / CUSPIDE IN GEOMETRIA:
60° MD / DIAMETRI 9,7-15-10- LUNGHEZZE CUSPIDE /
A DISEGNO DEL CLIENTE
/MORSE TAPER 3-4-5- / POINT AT 60°/ CARBIDE POINT /
Ø 9,7-15-10/POINT LENGTH / OR ON DEMAND
MORSE KONUS 3-4-5-M80-M100/60° SPITZE / HARTMETALLEINSATZ / Ø 9,7-15-10/SPITZE LÄNGE ODER AUF WÜNSCH

Adatte per lavorazioni di altissima precisione in RETTIFICA / Suitable for high precision grinding working / Geeignet für hohe Genauigkeit Bearbeitung zum Schleifen

SERIE SP 16

CONTROPUNTA AD ALTA VELOCITÀ
SENZA GHIERA D'ESTRAZIONE
HIGH SPEED LIVE CENTER WITHOUT DRAW-OFF NUT
"HIGH SPEED" MITLAUFENDE REITSTOCKSPITZEN OHNE ANSATZRING

CONO MORSE: 2-3-4-5 / CUSPIDE IN GEOMETRIA: 60°/
DOPPIA INCLINAZIONE T. / CUSPIDE INTERCAMBIABILE / CON GHIERA X TORNI DMG
MORSE TAPER 2-3-4-5 / POINT AT 60° / STUBBED POINT / INTERCHANGEABLE POINT OR WITH DRAW-OFF NUT FOR DMG LATHE
MORSE KONUS 2-3-4-5/60° SPITZE /MIT AUSWECHSELBARER SPITZE/MIT VERLÄNGERTER INTEGRALWELLE/ MIT ANSATZRING FÜR DMG DREHMASCHINE

Adatte per lavorazioni su torni CN ad alta velocità con asportazioni di trucciolo medie. Contropunta molto versatile ed economica
Suitable for high speed working or medium cutting tool working on NC lathe. Low-cost and versatile live center
Geeignet für "high-speed" oder medium Schneidwerkzeug Bearbeitung mit NC Drehmaschinen. Low-cost und vielseitige Mitlaufende Reitstockspitzen

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CONTROPUNTE GIREVOLE PER TORNITURA E RETTIFICA
LIVE CENTER FOR TURNING OR GRINDING
MITLAUFENDE REITSTOCKSPITZEN ZUM DREHEN UND SCHLEIFEN

SERIE AM 19

CONTROPUNTA A BASSA VELOCITÀ SENZA GHIERA D'ESTRAZIONE
LOW SPEED LIVE CENTER WITHOUT DRAW-OFF NUT
MITLAUFENDE REITSTOCKSPITZEN OHNE ANSATZRING ZUM NIEDRIGER GESCHWINDIGKEIT

CONO MORSE: 3-4-5-6 / CUSPIDE IN GEOMETRIA: 60° / DOPPIA INCLINAZIONE T
MORSE TAPER 3-4-5-6 / POINT AT 60° / STUBBED POINT
MORSE KONUS 2-3-4-5/60° SPITZE /MIT VERLÄNGERTER INTEGRALWELLE

Adatte per lavorazioni su torni TRADIZIONALI / PARALLELI con basse velocita di rotazione e asportazioni medio leggere. Contropunta molto versatile
Suitable for traditional lathe with low RPM and light working. Versatile live center
Geeignet für "low-speed" oder medium Schneidwerkzeug Bearbeitung mit Spitzendrehmaschinen. Vielseitige Mitlaufende Reitstockspitzen

SERIE MP 20

CONTROPUNTA AD ELEVATA VELOCITÀ CON GHIERA D'ESTRAZIONE DI DIMENSIONI COMPATTE
COMPACT HIGH SPEED LIVE CENTER WITH DRAW-OFF NUT
MITLAUFENDE REITSTOCKSPITZEN MIT ANSATZRING UND KOMPAKTEN ABMESSUNGEN

CONO MORSE: 3-4-5 / CUSPIDE IN GEOMETRIA: 60°
MORSE TAPER 3-4-5 / POINT AT 60°
MORSE KONUS 2-3-4-5/60° SPITZE

Adatte per lavorazioni su torni a fantina, torni scolastici, torni lavorazione orafa, torniture per minuterie con elevate velocita di rotazione e asportazioni leggere / Suitable for fine detail working / Geeignet für "high-speed" und leicht Schneidwerkzeug Bearbeitung

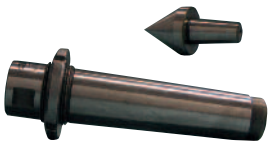
SERIE MA 21

CONTROPUNTA CON AUTOCENTRANTE PER SOSTEGNO PEZZI CILINDRICI
LIVE CENTER WITH CHUCK FOR CYLIDRICAL PIECES HOLD
MITLAUFENDE REITSTOCKSPITZEN MIT SPANNFUTTER FÜR ZYLINDRICAL STÜCK

CONO MORSE: 4-5 / CUSPIDE CON SEDE CILINDRICA PER AUTOCENTRANTE
MORSE TAPER 4-5 / POINT WITH CYLINDRICAL SEAT FOR CHUCK
MORSE KONUS 4-5 / SPITZE MIT ZYLINDRISCHEM SITZ FÜR SPANNFUTTER

Adatte per tutte quelle lavorazioni che richiedono un autocentrante sia lato mandrino sia lato contropunta / Suitable for working where the chuck is needed both mandrel side and tailstock side / Geeignet für Bearbeitung mit Spannfutter auf Spindel Seite und Reitstockspitzen Seite

SERIE FG/FGR FISSE PER RETTIFICA / FOR GRINDING / ZUM SCHLEIFEN 22



PUNTA FISSA CON GHIERA D'ESTRAZIONE CON PUNTA IN METALLO DURO O ACCIAO TEMPRATO
DEAD POINT WITH DRAW-OFF NUT AND CARBIDE POINT OR HARDENED STEEL POINT
FESTSTEHENDE ZENTRIERSPITZEN MIT ANSATZRING – HARTMETALLEINSATZ ODER WERKZEUGSTAHL

CONO MORSE: 3-4-5-6-M80-M100 / 60° PROLUNGATA / A DOPPIA INCLINAZIONE T / CUSPIDE INTERCAMBIABILE / PORTA FLANGE / SCARICO MOLA
MORSE TAPER 3-4-5-6-ME80-ME100 / POINT AT 60° / EXTENDED POINT/INTERCHANGEABLE POINT FLANGE HOLD
MORSE KONUS 3-4-5-6-M80-M100 /60° SPITZE /MIT VERLÄNGERTER INTEGRALWELLE/ MIT HALBER SPITZE

Adatte per lavorazioni su torni paralleli, torni cnc a canotto girevole, e rettificatrici in tondo per esterni / Suitable for working on traditional lathe and on internal/external grinder /Geeignet für Bearbeitung auf Spitzendrehmachinen oder NC Drehmachinen und Aussen- und Innerschleifemaschine

SERVIZIO RIPARAZIONE 23

RIPARAZIONE CONTROPUNTE DI OGNI MARCA CON 3 DIVERSE POSSIBILITÀ D'INTERVENTO

CONO MORSE: 2-3-4-5-6-7-M80-M100. CUSPIDE DI OGNI GEOMETRIA

Riparazione di: Riaffilatura, Sostituzione cuscinetti, Sostituzione cuscinetti e cuspide

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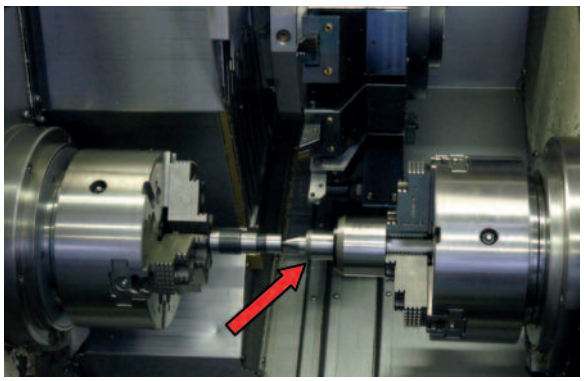
Serie SP-CD

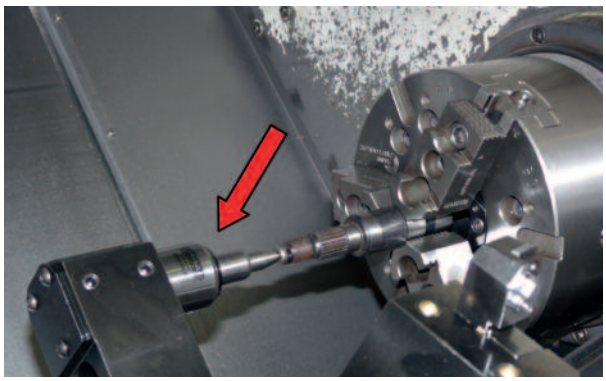
CONTROPUNTE CARICO DIFFERENZIATO
LIVE CENTER WITH DIFFERENTIAL LOAD
MITLAUFENDE KORNERSPITZEN MIT DIFFERENTIAL LAST

L'uso di questa contropunta è consigliata su torni CNC di nuova generazione con doppio mandrino o doppia torretta portautensile. La contropunta SP-CD può essere montata direttamente sul CONTROMANDRINO oppure se la macchina ne è dotata anche direttamente su una delle due TORRETTE in uno dei portautensili della torretta stessa. Inoltre per chi lavora particolari con problemi di dilatazioni assiale "SP-CD" permette l'auto compensazione di tali dilatazioni, evitando così che i pezzi si deformino. "SP-CD" grazie ad una compensazione di 4 mm. evita il sovraccarico applicato da parte dell'asse comandato dal CNC del tornio, permettendo un approccio più dolce evitando così una possibile collisione con conseguente rottura dei cuscinetti della contropunta e della macchina utensile stessa.

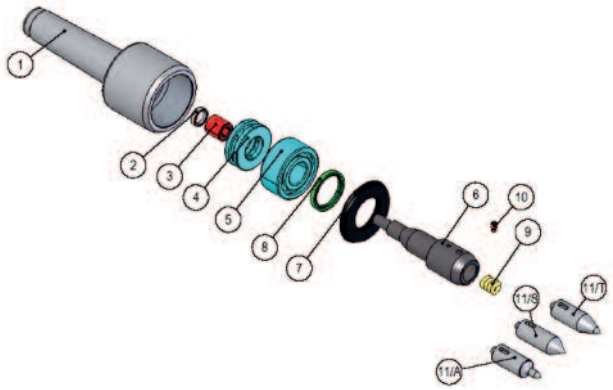
We suggest use this live center on NC lathe of new generation with double spindle or double toolholder turret. The live center can be apply directly on the COUNTER SPINDLE or, if the machine has it, also directly on one of the two TURRETS in one of the toolholders of the same turret. More for who works items with particolar problem of axial expansion "SP-CD"allows the self compensation of such expansions, avoiding that the pieces become deformed. Thanks to a compensation of 4 mm, the "SP-CD" avoids the overload of the axis driven by the NC unit of the lathe, allowing a sweeter approach and avoiding a collision that may caused a breakage of the live center bearing or the breakage of the machine.

Wir schlagen vor, verwenden Sie diesen Mitlaufende Reitstockspitzen auf NC-Drehmaschine der neuen Generation mit doppelter Spindel-oder Doppel WerkzeugDrehkopf. Die Mitlaufende Reitstockspitzen können direkt an der Gegenspindel montiren sein oder, wenn die Maschine hat der Drehkopf, auch direkt auf einem der beiden Drehkopf. Man kann auch diese Mitlaufende Reitstockspitzen verwenden mit Arbeitstücke mit Problem von axialen Expansion. SP-CD ermöglicht den selbst-Kompensation von diese Expansion sowie die Stücke nicht sich verformen. Dank eine selbst-Kompensation von 4 mm, SP-CD vermeide das "OVERLOAD" der Achse gesteuert von der NC-Unit, wodurch ist es möglich ein süßer Ansatz und dahr es vermeidet die Kollision.





SOSTITUZIONE DEL CUSPIDE INTERCAMBIABILE E DELLA MOLLA DI PRE-CARICO
HOW TO CHANGE THE INTERCHANGEABLE POINT AND THE SPRING OF PRELOAD
WIE DIE SPITZE UND FEDER WECHSELN



A) ***TOGLIERE IL GRANO POS. 10 E SFILARE IL CUSPIDE POS. 11/.....***
REMOVE THE GRAIN POS. 10 AND TO TAKE OUT THE POINT POS. 11/...;
ENTFERNEN SIE DAS DÜBEL POS. 10 UND DEN SPITZE POS. 11/...;

B) ***INSERIRE IL NUOVO CUSPIDE CON LA CHIAVETTA RIVOLTA VERSO IL FORO FILETTATO DEL GRANO E CON LA MOLLA INSERITA NELL'APPOSITA SEDE DEL CUSPIDE.***
INSERT THE NEW POINT WITH THE KEY TURN TO THREADED HOLE OF THE GRAIN AND WITH THE SPRING SETTING IN THE POINT SEAT
SETZEN SIE DIE NEUE SPITZE EIN MIT KEIL IN RICHTUNG ZUR BOHRUNGGEWINDE DER DÜBEL UND MIT DER FEDER IN SPITZE SITZ

C) ***PER MODIFICARE ANCHE IL CARICO D'ESERCIZIO BISOGNA ESTRARRE LA MOLLA POS. 9 E SOSTITUIRLA CON UNA MOLLA DI DIVERSO CARICO; (CHE POTETE SCEGLIERE NELLA TABELLA CARICHI MOLLE ALLEGATA).***
TO MODIFY THE LOAD TAKE OUT THE SPRING POS. 9 AND CHANGE IT WITH AN OTHER SPRING WITH DIFFERENT LOAD (YOU CAN CHOOSE IT BETWEEN THE ONE ON THE SCHEDULE ON NEXT PAGE)
UM DIE BELASTUNG ZU WECHSEL, ENTFRENEN SIE DER FEDER POS. 9 UND WECHSEL SIE EINER ANDEREN FEDER MIT DIFFERENZIERTER BELASTUNG (SEHEN SIE DIE TABELLE FÜR DIE FEDEREN TYPEN))

D) ***ULTIMATE LE SOSTITUZIONI AVVITATE IL GRANO FINO ALLA SUA BATTUTA MECCANICA E RUOTARE IN SENSO ANTIORARIO DI MEZZO GIRO (CONTROLLATE CON UN COMPRATORE CENTESIMALE, CHE IL CUSPIDE IN ROTAZIONE NON ABBIA UN'ECCENTRICITÀ MAGGIORE A 0,02 MM).***
COMPLETED THE CHANGING, SCREW THE GRAIN TILL ITS MECHANICAL STRUCK AND ROTATE IN COUNTER-CLOCKWISE SENSE OF AN HALF TURN (CONTROL WITH A CENTESIMAL DIAL GAUGE, THAT THE POINT IN ROTATION HAS NOT A GREATER ECCENTRICITY OF 0,02 M)
SCHRAUBEN SIE DAS DÜBEL UND DREHEN GEGEN DEN UHRZEIGERSINN VON EINER HALBEN UMDREHUNG (STEUERUNG MIT EINEM ZENTESIMALE MESSUHR, DASS DER SPITZE IM UNDREHUNG NICH MEHR EXZENTRIZITÄT VON 0,02 M HAT)

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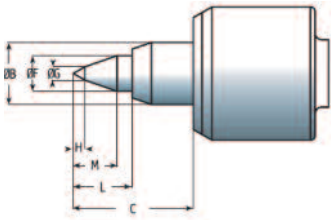
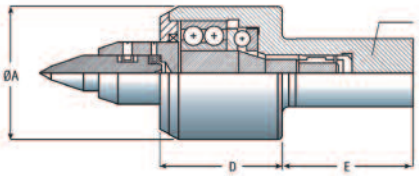
Serie SP-CD

CONTROPUNTE CARICO DIFFERENZIATO
LIVE CENTER WITH DIFFERENTIAL LOAD
MITLAUFENDE KORNERSPITZEN MIT DIFFERENTIAL LAST

KIT CONTROPUNTE CON CUSPIDE E MOLLE PRE-CARICO IN VALIGETTA ALLUMINIO
COMPLETE BOXED SET CONSISTING OF LIVE CENTER WITH POINTS AND PRE-LOAD SPRINGS
KOMPLETTE BOX-SET VON MITLAUFENDE REITSTOCKSPITZEN MIT SPITZEN UND PRE-LOAD FEDEREN

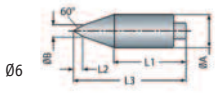
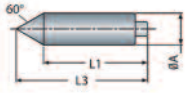
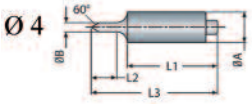




N° 1 CONTROPUNTA SP-CD											
COD. CILINDRO *	**DIMENSIONI** (mm)										**PESO** WEIGHT (Kg)
	A	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**M**	**L**	
22	42	20	53,3	43	50	13	6	5,2	19,7	25,3	**0,6**
28	60	28	54	55	50	16	6	5,2	19,7	26,6	**1,1**
32	70	35	59,6	57	60	51	6	5,2	24,4	28,9	**1,9**

*ANCHE CON CONO MORSE 3-4-5

SERIE SERIES	**CARICO**		**ECCENTRICITA'** ECCENTRICITY EXZENTRIZITÄT (mm)	**MAX GIRI/1'** r.p.m.	**MAX SPINTA** (N)	**RANGE COMPENSAZIONE** COMPENSATION RANGE SELBST-KOMPENSATION (mm)	**CODICE** CODE	
	ASSIALE AXIAL (N)	**RADIALE** RADIAL (N)						
SP/CD 22	10000	4000	0,015	6000	600	4	SPCD22.000.04	
SP/CD 28	20000	10000	0,015	4500	900	4	SPCD28.000.04	
SP/CD 32	28000	15000	0,015	4000	1200	4	SPCD32.000.04	

N° 1 CUSPIDE CID/T	**N° 1 CUSPIDE CID/S**	**N° 1 CUSPIDE CID/C**
		

LE DIMENSIONI SI POSSONO TROVARE A PAG. 01/8 DEL CATALOGO EDIZIONE N° 10
DIMENSION ON PAGE 01/08 ON CATALOGUE EDITION NO. 10 / ABMESSUNGEN AUF SEITE 01/08 AUF KATALOG EDITION NO. 10

N° 1 MOLLA CARICO EXTRA LEGGERO N° 1 EXTRA LIGHT LOAD SPRING N° 1 EXTRA LEICHT BELASTUNG FEDER			**N° 1 MOLLA CARICO EXTRA** N° 1 LIGHT LOAD SPRING N° 1 LEICHT BELASTUNG FEDER			**N° 1 MOLLA CARICO MEDIO** N° 1 MEDIUM LIGHT LOAD SPRING N° 1 MEDIUM BELASTUNG FEDER			**N° 1 MOLLA CARICO FORTE** N° 1 STRONG LOAD SPRING N° 1 SCHWERE BELASTUNG FEDER			**N° 1 MOLLA CARICO EXTRA FORTE** N° 1 EXTRA STRONG LOAD SPRING N° 1 EXTRA SCHWERE BELASTUNG FEDER		
SPCD 22	**SPCD 28**	**SPCD 32**	**SPCD 22**	**SPCD 28**	**SPCD 32**	**SPCD 22**	**SPCD 28**	**SPCD 32**	**SPCD 22**	**SPCD 28**	**SPCD 32**	**SPCD 22**	**SPCD 28**	**SPCD 32**
98 (N)	137 (N)	177 (N)	142(N)	206 (N)	275 (N)	196 (N)	284 (N)	382 (N)	294 (N)	1422 (N)	579 (N)	441 (N)	569 (N)	736 (N)

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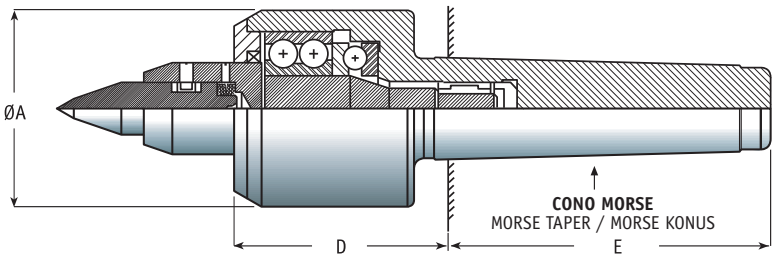
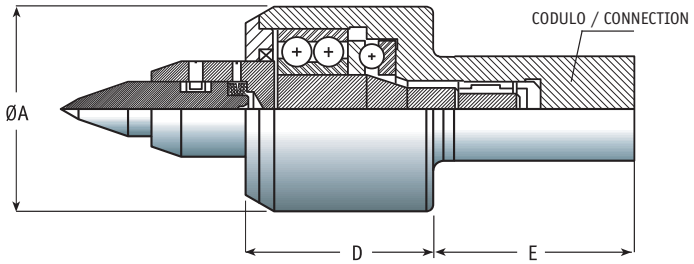
Serie SP-CD

CONTROPUNTE CARICO DIFFERENZIATO
LIVE CENTER WITH DIFFERENTIAL LOAD
MITLAUFENDE KORNERSPITZEN MIT DIFFERENTIAL LAST



CARATTERISTICHE GENERALI / TECHNICAL DATA / TECHNISCHE DATEN

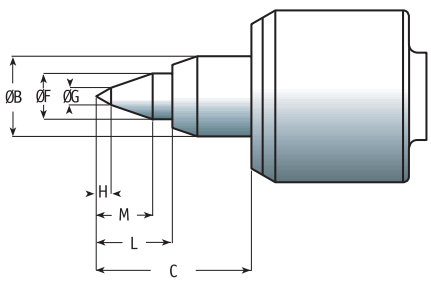
CONO MORSE MORSE TAPER MORSE KONUS	**DIMENSIONI** DIMENSIONS ABMESSUNG (mm)			**CARICO** / LOAD BELASTUNG		**ECCENTRICITA'** ECCENTRICITY EXZENTRIZITÄT (mm)	**MAX GIRI/1'** RPM MAX tr/m	**SPINTA MAX** WORKING FORCE MAX MAX DRUCK (N)	**OSCILLAZIONE MAX** FLUCTUATE MAX SCHWINGUNG MAX (mm)	**PESO** WEIGHT GEWICHT (Kg)
	ØA	**D**	**E**	**ASSIALE** AXIAL (N)	**RADIALE** RADIAL (N)					
3	42	48	81	10000	4000	0,015	6000	600	0,6	0,6
4	60	61,5	102,5	20000	10000	0,015	4500	900	0,6	1,1
5	70	63,5	129,5	28000	15000	0,015	4000	1200	0,8	1,9



CARATTERISTICHE GENERALI / TECHNICAL DATA / TECHNISCHE DATEN

CODOLO CONNECTION DIE KANALVERBINDUNG /APPELAGE	**DIMENSIONI** DIMENSIONS ABMESSUNG (mm)			**CARICO** / LOAD BELASTUNG		**ECCENTRICITA'** ECCENTRICITY UNMITTIGKEIT (mm)	**MAX GIRI/1'** RPM MAX tr/m	**SPINTA MAX** WORKING FORCE MAX MAX DRUCK (N)	**OSCILLAZIONE MAX** FLUCTUATE MAX SCHWINGUNG MAX (mm)	**PESO** WEIGHT GEWICHT (Kg)
	ØA	**D**	**E**	**ASSIALE** AXIAL (N)	**RADIALE** RADIAL (N)					
Ø 22	42	43	50	10000	4000	0,015	6000	600	0,6	0,6
Ø 28	60	55	50	20000	10000	0,015	4500	900	0,6	1,1
Ø 32	70	57	60	28000	15000	0,015	4000	1200	0,8	1,9

SERIE SP CD *CON CUSPIDE STANDARD / WITH POINT STANDARD / MIT SPITZE STANDARD*



CODOLO CONNECTION DIE KANALVERBINDUNG /APPELAGE	**DIMENSIONI** / DIMENSIONS / ABMESSUNG (mm)							**SERIE** SERIES	**CODICE** CODE	
	ØB	**ØF**	**ØG**	**H**	**M**	**L**	**C**			
CM3	20	13	6	5,2	19,7	25,3	53,3	SP/CD 3	SP003.000.06	
CM4	28	16	6	5,2	19,7	26,6	54	SP/CD 4	SP004.000.06	
CM5	35	21	6	5,2	24,4	28,9	59,4	SP/CD 5	SP005.000.06	
Ø 22	20	13	6	5,2	19,7	25,3	53,3	SP/CD 22	SP003.000.07	
Ø 28	28	16	6	5,2	19,7	26,6	54	SP/CD 28	SP004.000.07	
Ø 32	35	21	6	5,2	24,4	28,9	59,4	SP/CD 32	SP005.000.07	

***CON MOLLA A CARICO EXTRA FORTE** / EXTRA STRONG LOAD SPRING / EXTRA SCHWERE BELASTUNG FEDER*

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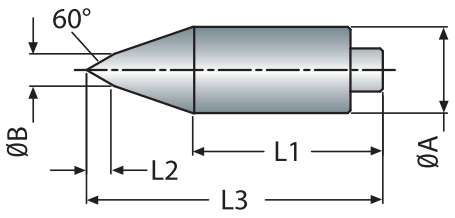
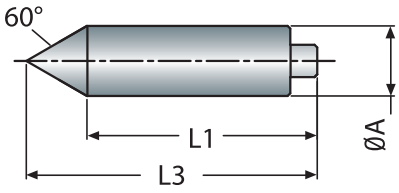
Serie SP-CD

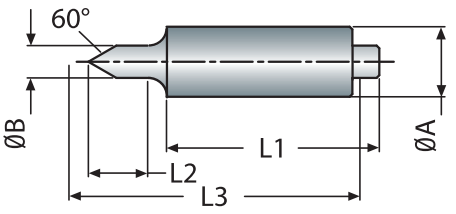
CUSPIDI INTERCAMBIABILI PER SP-CD

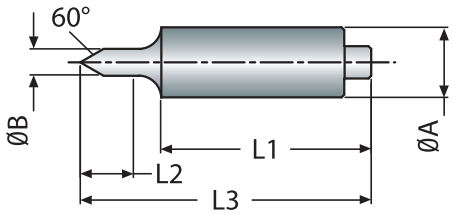
INTERCHANGEABLE POINTS FOR SP-CD

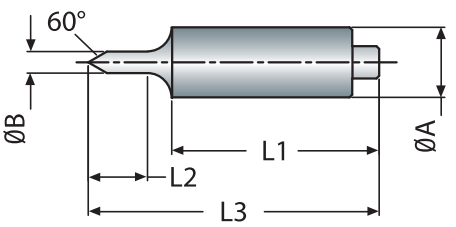
AUSWECHSELBAREN EINSÄTZEN FÜR SP-CD











CONO MORSE MORSE TAPER MORSE KONUS	DIMENSIONI / DIMENSIONS ABMESSUNG (mm)					SERIE SERIES	CODICE CODE	
	L1	L2	L3	ØA	ØB			
3	34	5	54	13	6	CID/T3	SP003.002.02	
4	35	5	55	16	6	CID/T4	SP004.002.02	
5	32	5	57	21	6	CID/T5	SP005.002.02	
3	42	-	54	13	-	CID/S3	SP003.002.01	
4	41	-	55	16	-	CID/S4	SP004.002.01	
5	38	-	57	21	-	CID/S5	SP005.002.01	
⊗ 3	39	11	54	13	6	CID/A3	SP003.002.03	
⊗ 4	38	12	55	16	6	CID/A4	SP004.002.03	
⊗ 5	37	12	57	21	6	CID/A5	SP005.002.03	
⊗ 3	39	11	54	13	5	CID/B3	SP003.002.04	
⊗ 4	38	11,5	55	16	5	CID/B4	SP004.002.04	
⊗ 5	37	11,5	57	21	5	CID/B5	SP005.002.04	
3	39	11	54	13	4	CID/C3	SP003.002.05	
4	38	11	55	16	4	CID/C4	SP004.002.05	
5	37	11	57	21	4	CID/C5	SP005.002.05	

⊗ ***SPECIALE A RICHIESTA*** / *ON DEMAND / AUF WUNSCH*

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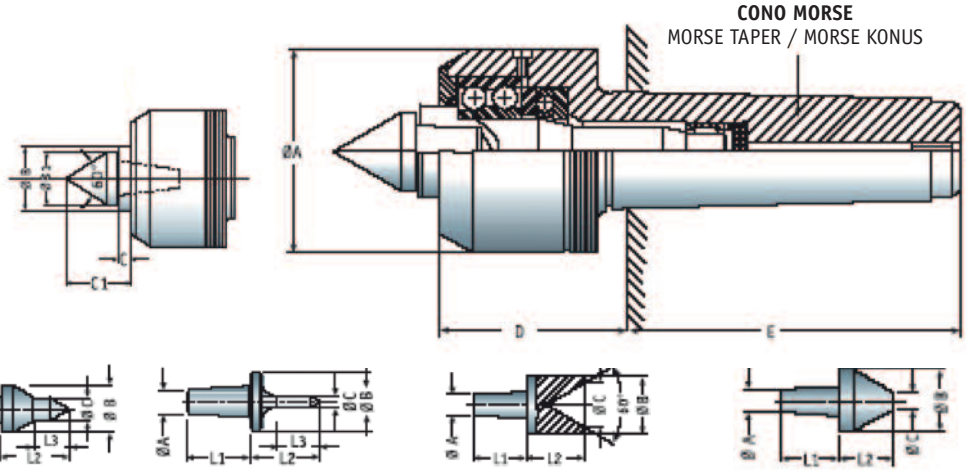
Serie POWER-FS

VALIGETTA POWER-FS
BOX WITH POWER-FS SET
BOX MIT POWER-FS SET

CONTROPUNTA SERIE POWER-FS DI ALTA PRECISIONE PER TORNI A CNC CON 5 CUSPIDI INTERCAMBIABILI
LIVE CENTER POWER-FS WITH NO. 5 INTERCHANGEABLE POINTS
REITSTOCKSPITZEN POWER-FS MIT NO. 5 MIT AUSWECHSELBARER SPITZE

SERIE POWER FS
CON CUSPIDI INTERCAMBIABILI
SERIES POWER FS WITH INTERCHANGEABLE POINT
SERIE POWER FS MIT AUSWECHELBAREN EINSÄTZEN



VEDERE QUOTE DISEGNI A PAG. 10-12 / *SEE DIMENSION ON PAGES 10-12 / SEHEN SIE ADMESSUNGEN AUF SEITE 10-12*

CONO MORSE MORSE TAPER MORSE KONUS	**CUSPIDE IN DOTAZIONE** POINT SUPPLIED SPITZE GELIEFERT	**SERIE** SERIES	**CODICE** CODE	**QUANTITÀ** QUANTITY MENGE	
3	**CIS CIP/A CIP/C CIFE CIF/A**	POWER-FS 3/5	RPWC03.000.05	1	
4		POWER-FS 4/5	RPWC04.000.05	1	
5		POWER-FS 5/5	RPWC05.000.05	1	

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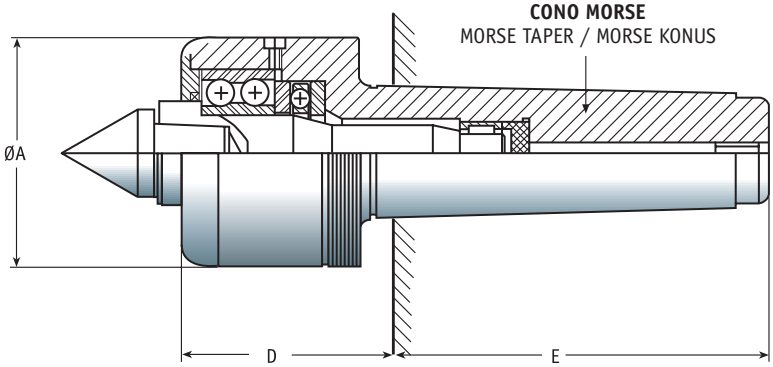
Serie POWER

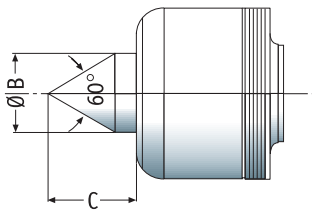
CONTROPUNTE ALTA PRECISIONE - GHIERA IN DOTAZIONE
HIGH PRECISION LIVE CENTER - DRAW-OFF NUT INCLUDED
MITLAUFENDE KORNERSPITZEN MIT HOHE GENAUIGKEIT - MIT ANSATZRING INKLUSIVE



CARATTERISTICHE GENERALI / TECHNICAL DATA / TECHNISCHE DATEN

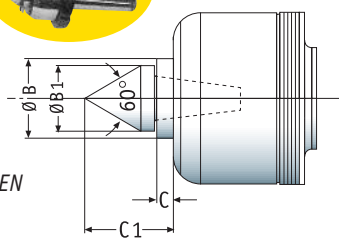
CONO MORSE MORSE TAPER MORSE KONUS	**DIMENSIONI** DIMENSIONS ABMESSUNG (mm)			**CARICO** / LOAD BELASTUNG		**ECCENTRICITA'** ECCENTRICITY UNMITTIGKEIT (mm)	**MAX GIRI/1'** RPM MAX tr/m	**PESO** WEIGHT GEWICHT (Kg)
	Ø A	**D**	**E**	**ASSIALE** AXIAL (N)	**RADIALE** RADIAL (N)			
3	60	66	81	20000	10000	0,005	4500	1,1
4	70	69,5	102,5	28000	15000	0,005	4000	1,9
5	90	76,5	129,5	35000	25000	0,005	2800	3,9
6	110	98	182	45000	40000	0,01	2400	9,1

SERIE POWER
CON CUSPIDE 60° STANDARD
WITH POINT AT 60° STANDARD
MIT SPITZENWINKEL 60°



CONO MORSE MORSE TAPER MORSE KONUS	**DIMENSIONI** DIMENSIONS ABMESSUNG (mm)		**SERIE** SERIES	**CODICE** CODE	
	ØB	**C**			
3	28	34	POWER 3	RPW003.000.01	
4	35	43	POWER 4	RPW004.000.01	
5	40	50	POWER 5	RPW005.000.01	
6	50	56	POWER 6	RPW006.000.01	

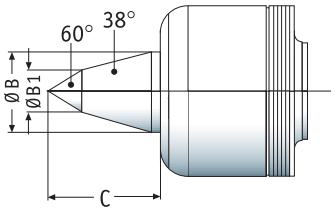
SERIE POWER FS
CON CUSPIDE INTERCAMBIABILE
WITH INTERCHANGEABLE POINT
SERIE POWER FS MIT AUSWECHSELBAREN EINSÄTZEN



CONO MORSE MORSE TAPER MORSE KONUS	**DIMENSIONI** DIMENSIONS ABMESSUNG (mm)				**SERIE** SERIES	**CODICE** CODE	
	ØB	**ØB1**	**C**	**C1**			
3	28	25	7	37	POWER/FS3	RPW003.000.03	
4	35	29	8	41	POWER/FS4	RPW004.000.03	
5	40	35	8	46	POWER/FS5	RPW005.000.03	

***= VEDERE TABELLA CUSPIDI INTERCAMBIABILI (C1) PAG. 01 / 7** - SEE INTERCHANGEABLE POINT SCHEDULE (C1) PAGE 01 / 7
SEHEN SIE DIE AUSWECHSELBARENEINSÄTZEN (C1) AUF SEITE 01 / 7

SERIE POWER T
CON CUSPIDE SCARICATA
WITH STUBBED POINT
SERIE POWER T MIT VERLÄNGERTER LAUFSPITZE



CONO MORSE MORSE TAPER MORSE KONUS	**DIMENSIONI** DIMENSIONS ABMESSUNG (mm)			**SERIE** SERIES	**CODICE** CODE	
	ØB	**ØB1**	**C**			
3	28	6	41,5	POWER/T3	RPW003.000.02	
4	35	9	51	POWER/T4	RPW004.000.02	
5	40	12	56,5	POWER/T5	RPW005.000.02	
6	50	15	75	POWER/T6	RPW006.000.02	

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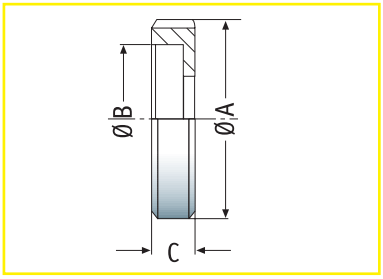
GHIERA PER ESTRAZIONE

IN DOTAZIONE SU TUTTE LE CONTROPUNTE ROTANTI E FISSE

DRAW-OFF NUT

ABDRÜCKMUTTER



CONO MORSE MORSE TAPER MORSE KONUS	DIMENSIONI DIMENSIONS ABMESSUNG (mm)			SERIE SERIES	CODICE CODE
	ØA	ØB	C		
3	80	60x1,5	17	GHP 60	RPW003.005.00
4	95	70x1,5	17	GHP 70	RPW004.005.00
5	115	90x1,5	20	GHP 90	RPW005.005.00
6	140	110x1,5	20	GHP 110	RPW006.005.00

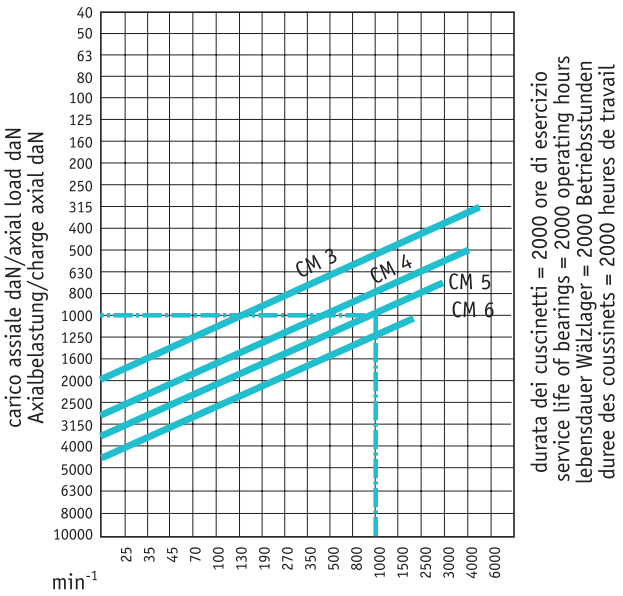
DIAGRAMMI CONTROPUNTE SERIE POWER / LIVE CENTERS DIAGRAMS SERIES POWER
BELASTUNGSDIAGRAMME FÜR MITLAUFENDE KÖRNERSPITZEN SERIE POWER

ESEMPIO:
CONTROPUNTA SERIE STANDARD CONO MORSE 5.
IL CARICO AMMISSIBILE A 1000 giri/min. È:
- ***CARICO RADIALE (PESO DEL PEZZO) = 1180 kg***
- ***CARICO ASSIALE = 1000 kg***

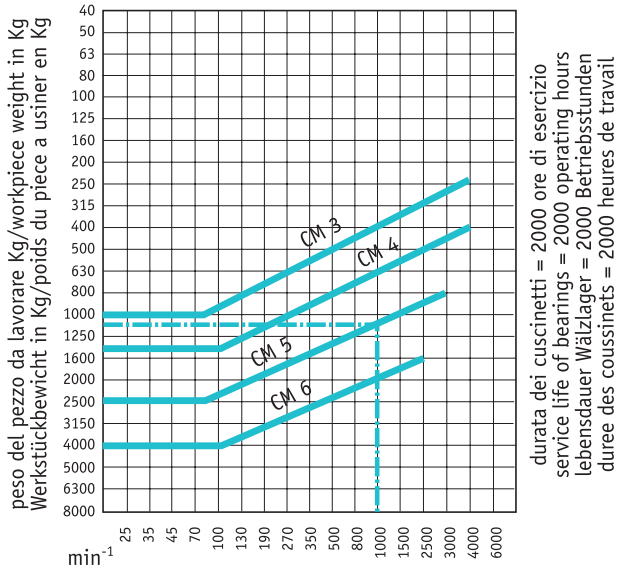
EXAMPLE:
LIVE CENTER STANDARD MORSE TAPER 5.
THE ADMISSIBLE LOAD AT 1000 min^{-1} IS:
- *RADIALLY = 1180 kg WORKPIECE*
- *AXIALLY = 1000 kg*

BEISPIEL:
ZULÄSTUNG DER MITLAUFENDE KÖRNERSPITZEN MORSE KONUS 5 BEI 1000 min-1
- *RADIAL (WERKSTÜCK) = 1180 kg*
- *AXIAL = 1000 kg*

CARICO ASSIALE / *AXIAL LOAD* *AXIALBELASTUNG*



CARICO RADIALE / *RADIAL LOAD* *RADIALBELASTUNG*



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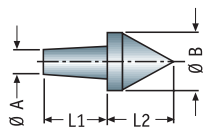
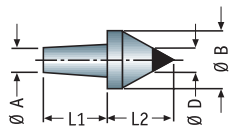
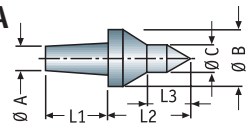
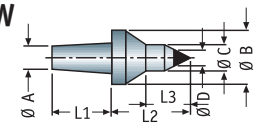
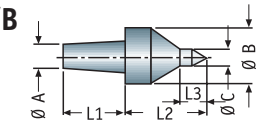
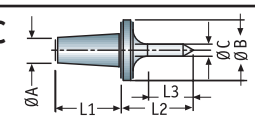
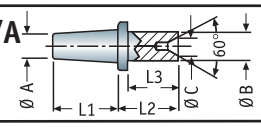
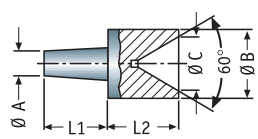
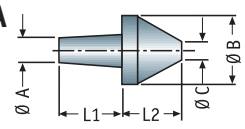
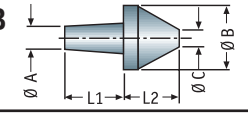
Serie POWER

CUSPIDI INTERCAMBIABILI PER POWER-FS

INTERCHANGEABLE POINTS FOR POWER-FS

AUSWECHSELBAREN EINSÄTZEN FÜR POWER-FS

	CONO MORSE MORSE TAPER MORSE KONUS	DIMENSIONI / DIMENSIONS ABMESSUNG (mm)							SERIE SERIES	CODICE CODE	
		L1	L2	L3	ØA	ØB	ØC	ØD			
CIS 	3	27	28	-	10,4	25	-	-	CIS 3	RPW003.007.03	
	4	29	31	-	12	29	-	-	CIS 4	RPW004.007.03	
	5	30	36	-	17,2	35	-	-	CIS 5	RPW005.007.03	
CIW 	⊗ 3	27	28	-	10,4	25	-	11	CIW 3	RPW003.008.03	
	⊗ 4	29	31	-	12	29	-	11	CIW 4	RPW004.008.03	
	⊗ 5	30	36	-	17,2	35	-	14	CIW 5	RPW005.008.03	
CIP/A 	3	27	34	16	10,4	25	12	-	CIP/A 3	RPW003.009.03	
	4	29	37	16,5	12	29	12	-	CIP/A 4	RPW004.009.03	
	5	30	42	19	17,2	35	15	-	CIP/A 5	RPW005.009.03	
CIP/W 	⊗ 3	27	34	16	10,4	25	12	7	CIP/W 3	RPW003.010.03	
	⊗ 4	29	37	16,5	12	29	12	7	CIP/W 4	RPW004.010.03	
	⊗ 5	30	42	19	17,2	35	15	11	CIP/W 5	RPW005.010.03	
CIP/B 	3	27	34	11	10,4	25	7	-	CIP/B 3	RPW003.011.03	
	4	29	37	13	12	29	7	-	CIP/B 4	RPW004.011.03	
	5	30	42	12	17,2	35	7	-	CIP/B 5	RPW005.011.03	
CIP/C 	3	27	30	19	10,4	25	5	-	CIP/C 3	RPW003.009.04	
	4	29	30	19	12	29	5	-	CIP/C 4	RPW004.009.04	
	5	29	30	19	12	29	5	-	CIP/C 5	RPW005.009.04	
CIFE/A 	3	27	25	21	10,4	12	8	-	CIFE/A 3	RPW003.012.05	
	4	29	25	21	12	12	8	-	CIFE/A 4	RPW004.012.05	
	5	30	25	21	17,2	12	8	-	CIFE/A 5	RPW005.012.05	
CIFE 	⊗ 3	27	30	-	10,4	29	23	-	CIFE 3	RPW003.012.03	
	⊗ 4	29	30	-	12	29	23	-	CIFE 4	RPW004.012.03	
	⊗ 5	30	35	-	17,2	35	27	-	CIFE 5	RPW005.012.03	
CIF/A 	3	27	35	-	10,4	59	26	-	CIF/A 3	RPW003.013.03	
	4	29	35	-	12	59	26	-	CIF/A 4	RPW004.013.03	
	5	30	35	-	17,2	59	26	-	CIF/A 5	RPW005.013.03	
CIF/B 	3	27	35	-	10,4	78	46	-	CIF/B 3	RPW003.014.03	
	4	29	35	-	12	78	46	-	CIF/B 4	RPW004.014.03	
	5	30	35	-	17,2	78	46	-	CIF/B 5	RPW005.014.03	

⊗ ***SPECIALE A RICHIESTA*** / *ON DEMAND / AUF WUNSCH*

NOTA: RICAMBI INTERCAMBIABILI CON LE PIÙ NOTE CASE COSTRUTTRICI DI CONTROPUNTE / NOTE: SPARE PARTS ARE INTERCHANGEABLE WITH THE ONES OF THE MAIN MANUFACTURER OF LIVE CENTERS
NOTE: DIESE EINSÄTZEN SIND AUSWECHSELBAREN MIT DIE ANDEREN VON DIE WICHTIGSTE HERSTELLER

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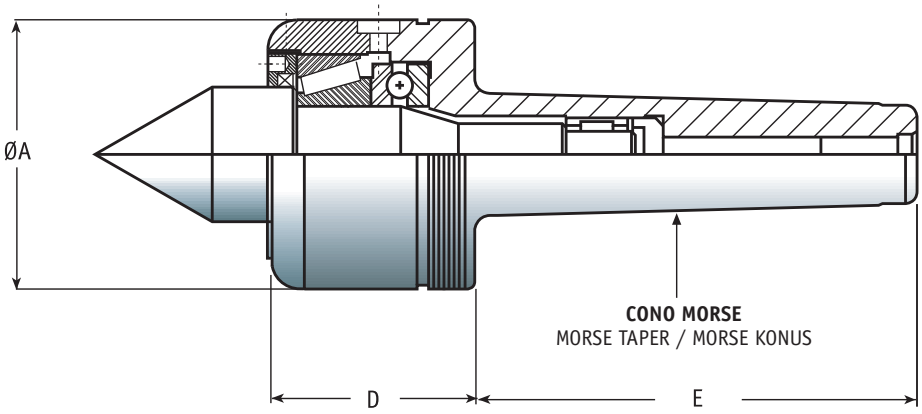
Serie POWER-P

CONTROPUNTE CARICO PESANTE - GHIERA IN DOTAZIONE
HIGH LOAD LIVE CENTER - DRAW-OFF NUT INCLUDED
MITLAUFENDE KORNERSPITZEN FÜR SCHWERE LAST - MIT ANSATZRING INKLUSIVE

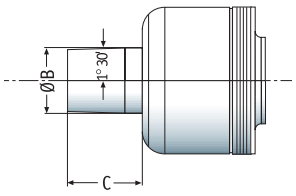


CARATTERISTICHE GENERALI / TECHNICAL DATA / TECHNISCHE DATEN

CONO MORSE MORSE TAPER MORSE KONUS	**DIMENSIONI** DIMENSIONS ABMESSUNG (mm)					**CARICO** / LOAD BELASTUNG		**ECCENTRICITA'** ECCENTRICITY UNMITTIGKEIT (mm)	**MAX GIRI/1'** RPM MAX tr/m	**PESO** WEIGHT GEWICHT (Kg)	**SERIE** SERIES	**CODICE** CODE	
	ØA	**ØB**	**C**	**D**	**E**	**ASSIALE** AXIAL (N)	**RADIALE** RADIAL (N)						
3	60	28	38	51	92	22000	20000	0,005	4000	1,9	POWER 3/P	RPW003.000.07	
4	70	35	46	54	115	28000	30000	0,005	4000	1,9	POWER 4/P	RPW004.000.10	
5	90	40	53	65	136	35000	40000	0,005	2800	3,9	POWER 5/P	RPW005.000.08	
6	130	65	71	92,5	195	70000	130000	0,01	2400	9,1	POWER 6/P	RPW006.000.07	
7	185	80	95	148	284	150000	170000	0,01	1000	38	POWER 7/P	RPW007.000.07	
80	185	80	95	148	210	150000	170000	0,01	1000	35	POWER 80/P	RPW080.000.07	
100	185	80	95	148	242	180000	200000	0,01	1000	40	POWER 100/P	RPW0100.000.07	

SERIE POWER PF

CON CUSPIDE PORTA FLANGE
WITH TRUNCATED CONE POINT
SERIE POWER F MIT SPITZENSTUMPT



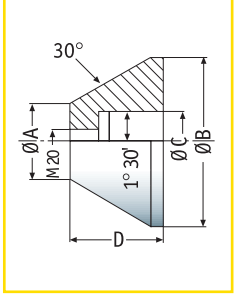
A richiesta fino a CM 100 con carichi ridimensionati
On demand till to morse taper 100
Auf Wunsch bis Morsekegel

CONO MORSE MORSE TAPER MORSE KONUS	**DIMENSIONI** / DIMENSIONS ABMESSUNG		**SERIE** SERIES	**CODICE** CODE	
	ØB	**C**			
4	35	40	POWER/F4	RPW004.000.13	
5	35	40	POWER/F5	RPW005.000.13	
6	35	40	POWER/F6	RPW006.000.11	

Per funghi vedi tabella sotto allegata / Head on schedule / Kegelringe in Tabelle

FLANGE PER CONTROPUNTE

HEADS FOR TRUNCATED CONE LIVE CENTERS
EINSÄTZEN FÜR MITLAUFENDE KÖRNERSPITZEN MIT SPITZENSTUMPT



DIMENSIONI / DIMENSIONS ABMESSUNG (mm)				**SERIE** SERIES	**CODICE** CODE	
ØA	**ØB**	**ØC**	**D**			
45	98	35	55	FPI/45/98	RPW000.001.05	
95	148	35	55	FPI/95/148	RPW000.002.05	
145	198	35	55	FPI/145/198	RPW000.003.05	
195	248	35	55	FPI/195/248	RPW000.004.05	
245	298	35	55	FPI/245/298	RPW000.005.05	

A RICHIESTA FINO A Ø 1000 / ON REQUEST TILL Ø 1000 / AUF WUNCH BIS Ø 1000

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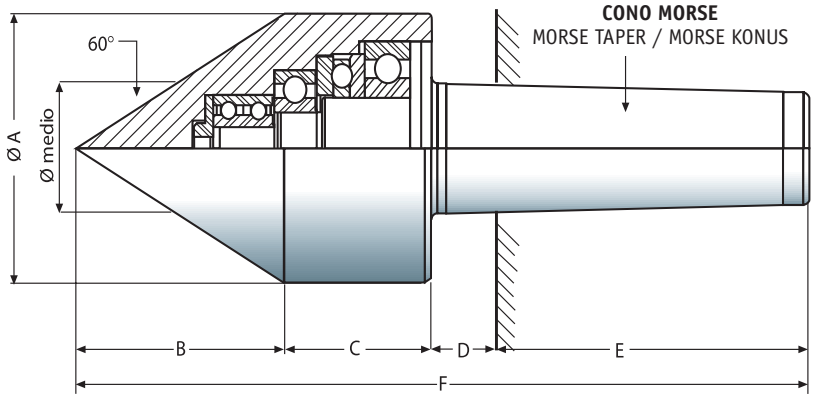
Serie POWER-MF

CONTROPUNTE A FUNGO SPECIFICA PER TUBI
REVOLVING CENTERING TAPERS FOR TUBE
MITLAUFENDE ZENTRIERKEGEL FÜR RÖHRE



A RICHIESTA DEL CLIENTE È POSSIBILE REALIZZARE POWER MF A TRONCO CON Ø ESTERNI MAGGIORATI / ON REQUEST WE CAN SUPPLY POWER MF WITH BIGGER EXTERNAL DIAMETER.
AUF WUNSCH WIR KONNEN POWER MF MIT GROßER AUßENDURCHMESSER

CARATTERISTICHE GENERALI / *TECHNICAL DATA* / *TECHNISCHE DATEN*

CONO MORSE MORSE TAPER MORSE KONUS	DIMENSIONI DIMENSIONS ABMESSUNG (mm)						CARICO / LOAD BELASTUNG		ECCENTRICITA' ECCENTRICITY UNMITTIGKEIT		MAX GIRI/1' RPM MAX tr/m	PESO WEIGHT GEWICHT (Kg)	SERIE SERIES	CODICE CODE	
	ØA	B	C	D	E	F	ASSIALE AXIAL (N)	RADIALE RADIAL (N)	‹Ø medio	›Ø medio					
3	60	52	30	10	81	173	11000	5000	0,015	0,008	5700	1,5	PMF 3	RPW003.000.06	
	70	60,5	45,5	11,5	102,5	220	15000	10000	0,015	0,008	4500	2,3	PMF 4/70	RPW004.000.06	
4 ⊗	90	78	28	11,5	102,5	220	15000	9500	0,015	0,008	4500	2,3	PMF 4/90	RPW004.000.08	
⊗	110	95	10	11,5	102,5	220	15000	9000	0,015	0,008	4500	2,3	PMF 4/110	RPW004.000.07	
	90	78	55	12,5	129,5	275	20000	18000	0,02	0,01	3600	4	PMF 5/90	RPW005.000.06	
5 ⊗	110	95	38	12,5	129,5	275	20000	17000	0,02	0,01	3600	4	PMF 5/110	RPW005.000.07	
⊗	200	173	15	12,5	129,5	330	20000	15000	0,02	0,01	3600	4	PMF 5/200	RPW005.000.12	
	110	95	60	17	182	354	43000	30000	0,02	0,015	2600	10	PMF 6/110	RPW006.000.06	
6 ⊗	150	130	25	17	182	354	43000	28000	0,02	0,015	2600	10	PMF 6/150	RPW006.000.09	
⊗	200	173	15	17	182	387	43000	25000	0,02	0,015	2600	10	PMF 6/200	RPW006.000.10	

⊗ ***MERCE NON SEMPRE PRONTA A MAGAZZINO*** / *ASK FOR DELIVERY TIME / ERFRAGEN SIE LIEFERTERMIN*

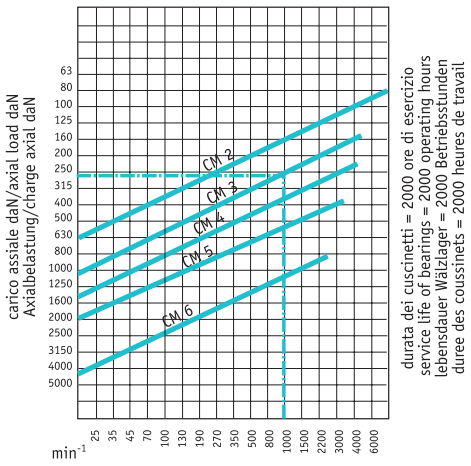
DIAGRAMMI CONTROPUNTE SERIE POWER MF / *LIVE CENTERS DIAGRAMS SERIES POWER MF*
BELASTUNGSDIAGRAMME FÜR MITLAUFENDE KÖRNERSPITZEN SERIE POWER MF

ESEMPIO:
CONTROPUNTA SERIE POWER MF CONO MORSE 3.
IL CARICO AMMISSIBILE A 1000 giri/min. è:
- ***CARICO RADIALE (PESO DEL PEZZO) = 155 kg***
- ***CARICO ASSIALE = 270 kg***

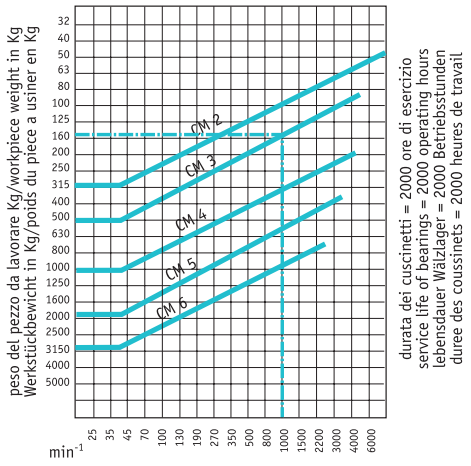
EXAMPLE:
LIVE CENTER SERIES POWER MF MORSE TAPER 3.
THE ADMISSIBLE LOAD AT 1000 min^{-1} IS:
- *RADIALLY = 155 kg WORKPIECE*
- *AXIALLY = 270 kg*

BEISPIEL:
ZULÄSTUNG DER MITLAUFENDE KÖRNERSPITZENSERIE POWER MF MORSE KONUS 3 BEI 1000 min-1
- *RADIAL (WERKSTÜCK) = 155 kg*
- *AXIAL= 270 kg*

CARICO ASSIALE / *AXIAL LOAD* / *AXIALBELASTUNG*



CARICO RADIALE / *RADIAL LOAD* / *RADIALBELASTUNG*



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Serie POWER-R

CONTROPUNTE PER RETTIFICA CON METALLO DURO GHIERA IN DOTAZIONE

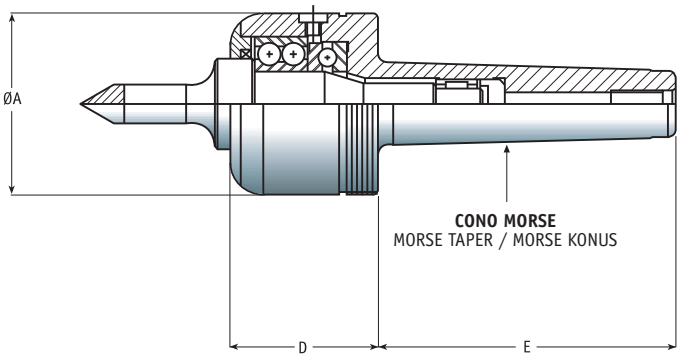
LIVE CENTER FOR GRINDING DRAW-OFF AND CARBIDE POINT DRAW-OFF NUT INCLUDED

REITSTOCKSPITZE ZUM SCHLEIFEN MIT ANSATZRING INKLUSIVE UND HARTMETALLEINSATZ

È DOTATA DI SISTEMA DI LUBRIFICAZIONE E PRESSURIZZAZIONE, PER DARE MAGGIOR DURATA

WITH LUBRIFICATED AND PRESSURIZED SYSTEM

MIT GESCHMIERT UND UNDER DRUCK SYSTEM



CARATTERISTICHE GENERALI / TECHNICAL DATA / TECHNISCHE DATEN

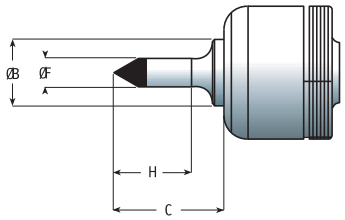
CONO MORSE MORSE TAPER MORSE KONUS	**DIMENSIONI** / DIMENSIONS ABMESSUNG (mm)			**CARICO** / LOAD BELASTUNG		**ECCENTRICITÀ** / ECCENTRICITY EXCENTRICITE (mm)	**MAX GIRI/1'** RPM MAX tr/m	**PESO**/WEIGHT GEWICHT (Kg)
	ØA	**D**	**E**	**ASSIALE**/AXIAL (N)	**RADIALE**/RADIAL (N)			
3	60	55	92	20000	10000	0,005	4500	1,1
4	70	57	115	28000	15000	0,005	4000	1,9
5	90	70	136	35000	25000	0,005	2800	3,9

SERIE POWER/R MD Ø15

CON CUSPIDE 60°

WITH POINT 60°

MIT SPITZE 60°



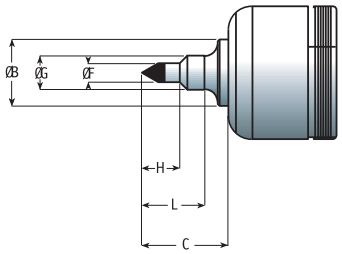
CONO MORSE MORSE TAPER MORSE KONUS		**DIMENSIONI** / DIMENSIONS ABMESSUNG (mm)				**SERIE** SERIES	**CODICE** CODE	
		ØB	**C**	**ØF**	**H**			
⊗	**3**	28	58	15	41	POWER 3/R	RPW003.000.08	
⊗	**4**	35	58	15	41	POWER 4/R	RPW004.000.09	
⊗	**5**	40	58	15	41	POWER 5/R	RPW005.000.09	

SERIE POWER/RR MD Ø10 RINFORZATA

CON CUSPIDE 60°

WITH POINT 60°

MIT SPITZE 60°



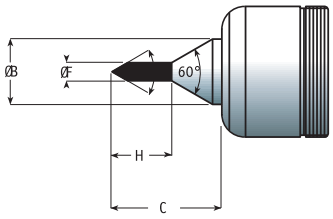
CONO MORSE MORSE TAPER MORSE KONUS	**DIMENSIONI** / DIMENSIONS ABMESSUNG (mm)						**SERIE** SERIES	**CODICE** CODE	
	ØB	**C**	**ØF**	**ØG**	**H**	**L**			
3	28	46	10	18	20	33	POWER 3/RR	RPW003.000.09	
4	35	46	10	18	20	33	POWER 4/RR	RPW004.000.11	
5	40	46	10	18	20	33	POWER 5/RR	RPW005.000.10	

SERIE POWER/RS MD Ø5-Ø10

CON CUSPIDE 60°

WITH POINT 60°

MIT SPITZE 60°



CONO MORSE MORSE TAPER MORSE KONUS		**DIMENSIONI** / DIMENSIONS ABMESSUNG (mm)				**SERIE** SERIES	**CODICE** CODE	
		ØB	**C**	**ØF**	**H**			
⊗	**3**	28	53	9,7	32	POWER 3/RS	RPW003.000.10	
	4	35	58,9	9,7	32	POWER 4/RS	RPW004.000.12	
⊗	**5**	40	64	9,7	32	POWER 5/RS	RPW005.000.11	

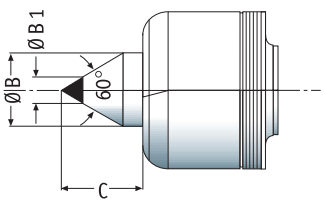
SERIE POWER MD

CON CUSPIDE IN METALLO DURO

WITH CARBIDE POINT

SERIE POWER MD MIT HARTMETALL-EINSATZ

GENRE POWER MD



CONO MORSE MORSE TAPER MORSE KONUS		**DIMENSIONI** / DIMENSIONS ABMESSUNG (mm)			**SERIE** SERIES	**CODICE** CODE	
		ØB	**ØB1**	**C**			
⊗	**3**	28	11	34	POWER/MD3	RPW003.000.04	
⊗	**4**	35	14	43	POWER/MD4	RPW004.000.04	
⊗	**5**	40	20	50	POWER/MD5	RPW005.000.04	
⊗	**6**	50	25	56	POWER/MD6	RPW006.000.04	

⊗ ***SPECIALE A RICHIESTA*** */ ON DEMAND / AUF WUNSCH*

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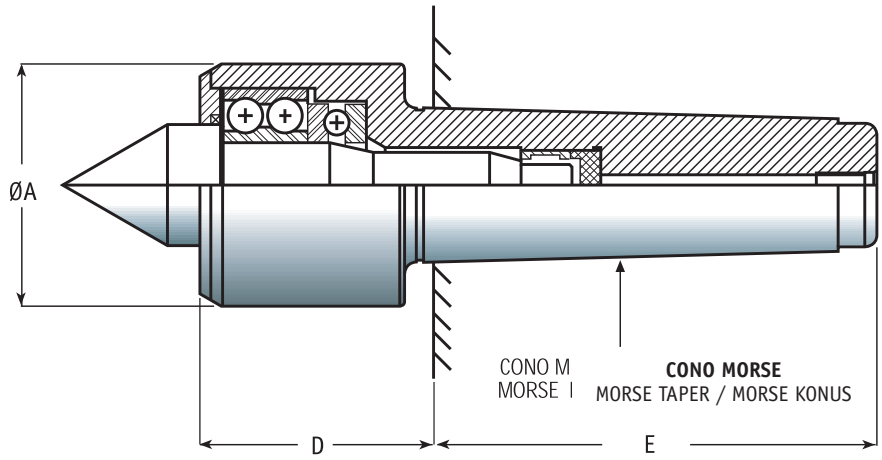
Serie SP

CONTROPUNTE ALTA VELOCITÀ
LIVE CENTER WITH HIGH RPM
REITSTOCKSPITZE MIT HOHE RPM



CARATTERISTICHE GENERALI / TECHNICAL DATA / TECHNISCHE DATEN

CONO MORSE MORSE TAPER MORSE KONUS	**DIMENSIONI** DIMENSIONS ABMESSUNG (mm)			**CARICO** / LOAD BELASTUNG		**ECCENTRICITA'** ECCENTRICITY UNMITTIGKEIT (mm)	**MAX GIRI/1'** RPM MAX tr/m	**PESO** WEIGHT GEWICHT (Kg)
	ØA	**D**	**E**	**ASSIALE** AXIAL (N)	**RADIALE** RADIAL (N)			
2	42	48	64	6500	1000	0,005	6500	0,5
3	42	48	81	10000	4000	0,005	6000	0,6
4	60	61,5	102,5	20000	10000	0,005	4500	1,1
5	70	63,5	129,5	28000	15000	0,005	4000	1,9

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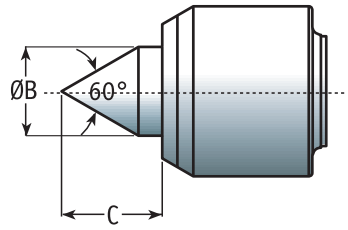
Serie SP

CONTROPUNTE ALTA VELOCITÀ
LIVE CENTER WITH HIGH RPM
REITSTOCKSPITZE MIT HOHE RPM

SERIE SP 60°

CON CUSPIDE 60° STANDARD

WITH POINT 60° STANDARD / MIT SPITZE 60° STANDARD

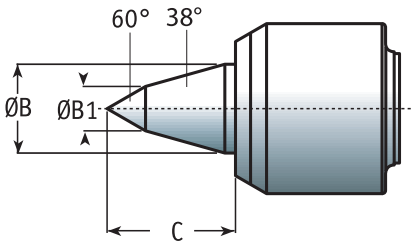


CONO MORSE MORSE TAPER MORSE KONUS	**DIMENSIONI** / DIMENSIONS ABMESSUNG (mm)		**SERIE** SERIES	**CODICE** CODE	
	ØB	**C**			
2	20	25	SP 2	SP002.000.01	
3	20	25	SP 3	SP003.000.01	
4	28	34	SP 4	SP004.000.01	
5	35	43	SP 5	SP005.000.01	

SERIE SP T

CON CUSPIDE SCARICATA

WITH EXTENDEDPOINT / VERLÄNGERTER SPITZE

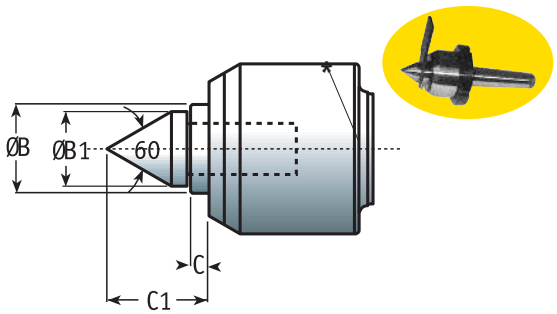


CONO MORSE MORSE TAPER MORSE KONUS	**DIMENSIONI** / DIMENSIONS ABMESSUNG (mm)			**SERIE** SERIES	**CODICE** CODE	
	ØB	**ØB1**	**C**			
⊗ **2**	20	4	33	SP/T 2	SP002.000.04	
3	20	4	33	SP/T 3	SP003.000.04	
4	28	6	42	SP/T 4	SP004.000.04	
5	35	9	51	SP/T 5	SP005.000.04	

SERIE SP FS

CON CUSPIDE INTERCAMBIABILE

WITH INTERCHANGEABLE POINT / MIT AUSWECHSELBARE SPITZEN



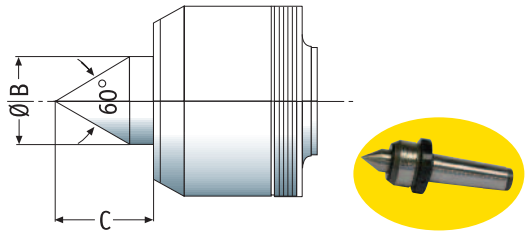
CONO MORSE MORSE TAPER MORSE KONUS	**DIMENSIONI** / DIMENSIONS ABMESSUNG (mm)				**SERIE** SERIES	**CODICE** CODE	
	ØB	**ØB1**	**C**	**C1**			
⊗ **2**	20	25	22	52	SP/FS 2	SP002.000.03	
3	20	25	22	52	SP/FS 3	SP003.000.03	
4	28	25	8	38	SP/FS 4	SP004.000.03	
5	35	29	10	43	SP/FS 5	SP005.000.03	

***= VEDERE TABELLA CUSPIDI INTERCAMBIABILI (C1) PAG. 01 / 18** - SEE INTERCHANGEABLE POINT SCHEDULE (C1) PAGE 01 / 18
SEHEN SIE DIE AUSWECHSELBARE SPITZEN (C1) AUF SEITE **01 / 18**

SERIE SP/G

CON GHIERE IN DOTAZIONE

WITH DRAW-OFF INCLUDED NUT / MIT ANSATZRING INKLUSIVE



CONO MORSE MORSE TAPER MORSE KONUS	**DIMENSIONI** / DIMENSIONS ABMESSUNG (mm)			**SERIE** SERIES	**CODICE** CODE	
	ØB	**ØB1**	**C**			
4	28	11	34	SP/G 4	SP004.000.08	
5	35	14	43	SP/G 5	SP005.000.08	

⊗ ***SPECIALE A RICHIESTA** / ON DEMAND / AUF WUNSCH*

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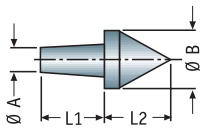
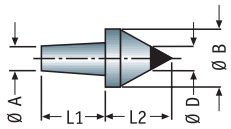
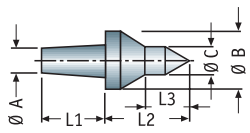
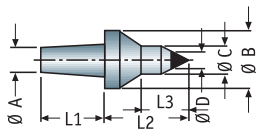
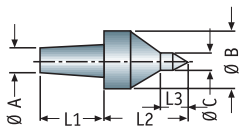
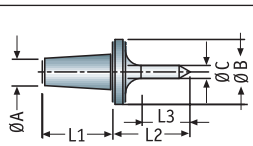
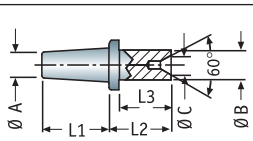
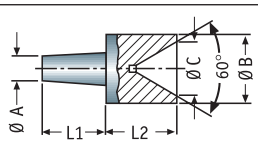
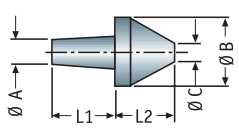
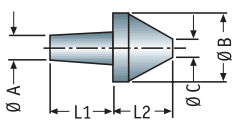
Serie SP

CUSPIDI INTERCAMBIABILI PER SP
INTERCHANGEABLE POINTS FOR SP
AUSWECHSELBAREN EINSÄTZEN FÜR SP

		CONO MORSE MORSE TAPER MORSE KONUS	DIMENSIONI / DIMENSIONS ABMESSUNG (mm)							SERIE SERIES	CODICE CODE	
			L1	L2	L3	ØA	ØB	ØC	ØD			
CIS		**2-3-4**	27	28	-	10,4	25	-	-	CIS 3	RPW003.007.03	
		5	29	31	-	12	29	-	-	CIS 4	RPW004.007.03	
CIW		⊗ **2-3-4**	27	28	-	10,4	25	-	11	CIW 3	RPW003.008.03	
		⊗ **5**	29	31	-	12	29	-	11	CIW 4	RPW004.008.03	
CIP/A		**2-3-4**	27	34	16	10,4	25	-	-	CIP/A 3	RPW003.009.03	
		5	29	37	16,5	12	29	-	-	CIP/A 4	RPW004.009.03	
CIP/W		⊗ **2-3-4**	27	34	16	10,4	25	12	7	CIP/W 3	RPW003.010.03	
		⊗ **5**	29	37	16,5	12	29	12	7	CIP/W 4	RPW004.010.03	
CIP/B		**2-3-4**	27	34	11	10,4	25	7	-	CIP/B 3	RPW003.011.03	
		5	29	37	13	12	29	7	-	CIP/B 4	RPW004.011.03	
CIP/C		**2-3-4**	27	30	19	10,4	25	5	-	CIP/C 3	RPW003.009.04	
		5	29	30	19	12	29	5	-	CIP/C 4	RPW004.009.04	
CIFE/A		**2-3-4**	27	25	21	10,4	12	8	-	CIFE/A 3	RPW003.012.05	
		5	29	25	21	12	12	8	-	CIFE/A 4	RPW004.012.05	
CIFE		**2-3-4**	27	30	-	10,4	29	23	-	CIFE 3	RPW003.012.03	
		5	29	30	-	12	29	23	-	CIFE 4	RPW004.012.03	
CIF/A		**2-3-4**	27	35	-	10,4	59	26	-	CIF/A 3	RPW003.013.03	
		5	29	35	-	12	59	26	-	CIF/A 4	RPW004.013.03	
CIF/B		**2-3-4**	27	35	-	10,4	78	46	-	CIF/B 3	RPW003.014.03	
		5	29	35	-	12	78	46	-	CIF/B 4	RPW004.014.03	

⊗ ***SPECIALE A RICHIESTA*** / *ON DEMAND / AUF WUNSCH*

NOTA: RICAMBI INTERCAMBIABILI CON LE PIÙ NOTE CASE COSTRUTTRICI DI CONTROPUNTE / NOTE: SPARE PARTS ARE INTERCHANGEABLE WITH THE ONES OF THE MAIN MANUFACTURER OF LIVE CENTERS
NOTE: DIESE EINSÄTZEN SIND AUSWECHSELBAREN MIT DIE ANDEREN VON DIE WICHTIGSTE HERSTELLER

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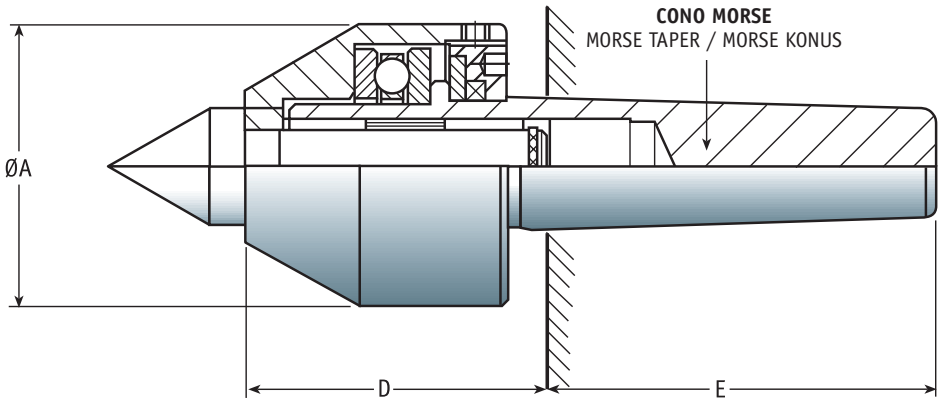
Serie AM

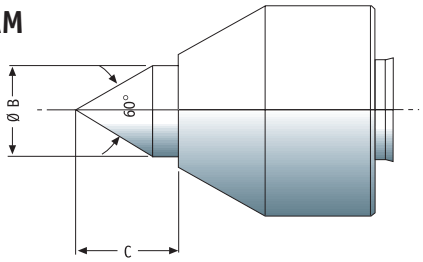
CONTROPUNTE BASSA VELOCITÀ PER TORNI PARALLELI - CUSPIDE E CALOTTA ROTANTE
LIVE CENTER SLOW SPEED FOR TRADITIONAL LATHE - WITH ROTARY BODY AND POINT
MITLAUFENDE KORNERSPITZEN FÜR KLEINE GESCHWINDIGKEIT - MIT SPITZE UND KÖRPER DREHEN



CARATTERISTICHE GENERALI / TECHNICAL DATA / TECHNISCHE DATEN

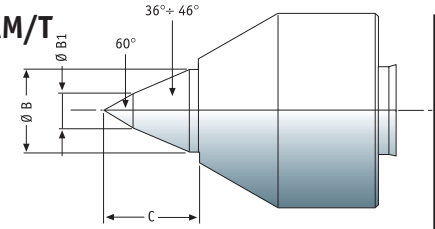
CONO MORSE MORSE TAPER MORSE KONUS	**DIMENSIONI** DIMENSIONS ABMESSUNG (mm)			**CARICO** / LOAD BELASTUNG		**ECCENTRICITA'** ECCENTRICITY EXCENTRICITE (mm)	**MAX GIRI/1'** RPM MAX tr/m	**PESO** WEIGHT GEWICHT (Kg)
	ØA	**D**	**E**	**ASSIALE** AXIAL (N)	**RADIALE** RADIAL (N)			
3	56	57	81	21200	9150	0,008	4000	1,3
4	62	56,5	102,5	23000	12700	0,008	3500	1,8
5	79	65,5	129,5	36000	16300	0,01	2500	3,5
6	109	84	182	52000	51000	0,015	2000	10

SERIE AM



CONO MORSE MORSE TAPER MORSE KONUS	**DIMENSIONI** / DIMENSIONS ABMESSUNG (mm)		**SERIE** SERIES	**CODICE** CODE	
	ØB	**C**			
3	24	28	AM 3	RAM003.000.01	
4	30	35	AM 4	RAM004.000.01	
5	38	45	AM 5	RAM005.000.01	
6	58	62	AM 6	RAM006.000.01	

SERIE AM/T



CONO MORSE MORSE TAPER MORSE KONUS	**DIMENSIONI** / DIMENSIONS ABMESSUNG (mm)			**SERIE** SERIES	**CODICE** CODE	
	ØB	**ØB1**	**C**			
⊗ **3**	24	10	32	AM3/T	RAM003.000.05	
⊗ **4**	30	12	40	AM4/T	RAM004000.05	
⊗ **5**	38	17	52	AM5/T	RAM005.000.05	

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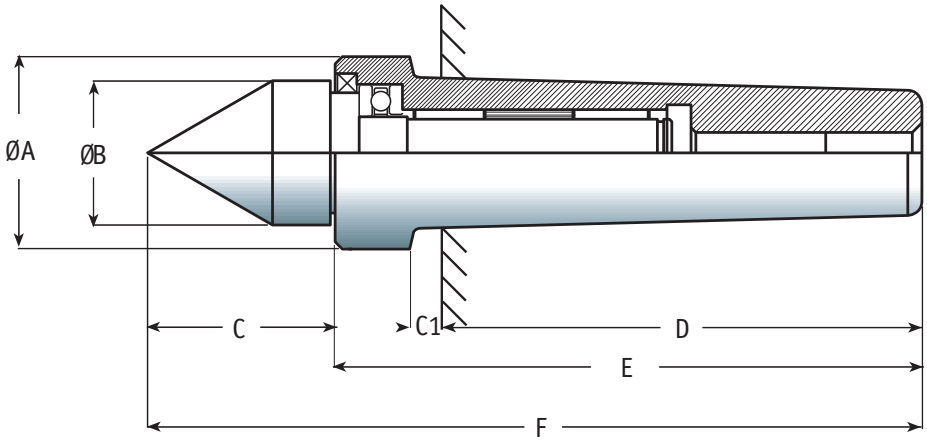
Serie MP

CONTROPUNTE COMPATTE PER MINUTERIE - GHIERA IN DOTAZIONE

COMPACT LIVE CENTER FOR FINE-DETAIL WORKING - DRAW-OFF NUT

MITLAUFENDE KORNERSPITZEN FÜR KLEINWARE - MIT ANSATZRING



CARATTERISTICHE GENERALI / TECHNICAL DATA / TECHNISCHE DATEN

CONO MORSE MORSE TAPER MORSE KONUS	DIMENSIONI DIMENSIONS / ABMESSUNG (mm)							CARICO / LOAD BELASTUNG		ECCENTRICITA' ECCENTRICITY EXCENTRICITE (mm)	MAX GIRI/1' RPM MAX tr/m	PESO WEIGHT GEWICHT (Kg)	SERIE SERIES	CODICE CODE	
	ØA	ØB	C	C1	D	E	F	ASSIALE AXIAL (N)	RADIALE RADIAL (N)						
⊗ 3	M30x1,5	22	35	5	81	99	134	4000	5000	0,01	5000	0,4	MP 3	RAM003.000.11	
⊗ 4	M40x1,5	30	39	3	102,5	122	161	8000	9500	0,01	4000	0,8	MP 4	RAM004.000.11	
⊗ 5	M50x1,5	38	48	6,5	129,5	151	199	11000	20000	0,01	3500	1,3	MP 5	RAM005.000.11	

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CARATTERISTICHE TECNICHE E FUNZIONALI

- **ADATTA PER LAVORAZIONI DI MINUTERIA SU TORNI DI ALTA PRODUZIONE**
- **PERMETTE LA TORNITURA DI DIAMETRI MOLTO PICCOLI, GRAZIE ALLA RIDUZIONE DEL DIAMETRO MASSIMO DELLA CONTROPUNTA**
- **CUSPIDE E CONO MORSE TEMPERATI E RETTIFICATI SU MACCHINE DI ALTA PRECISIONE**
- **ELEVATA VELOCITÀ DI ROTAZIONE**
- **DIMENSIONI D'INGOMBRO COMPATTE**
- **ELEVATA QUALITÀ DEI MATERIALI IMPIEGATI**
- **RAPPORTO QUALITÀ/PREZZO ESTREMAMENTE COMPETITIVO**
- **TUTTI I PRODOTTI SCOTTI SONO COLLAUDATI E AUTOCERTIFICATI**

TECHNICAL AND OPERATING CHARACTERISTICS

- SUITABLE FOR FINE-DETAIL WORKING WITH LATHES FOR HIGH PRODUCTION
- ALLOWS THE TURNING OF SMALL DIAMETERS, THANKS TO THE REDUCTION IN MAX DIAMETER OF THE LIVE CENTER
- HARDENED AND HIGH PRECISION GROUND POINT AND MORSE TAPER
- HIGH REVOLVING SPEED
- REDUCED OVERALL DIMENSIONS
- TOP QUALITY MATERIALS
- VERY COMPETITIVE QUALITY/PRICE RATIO
- ALL SCOTTI PRODUCTS ARE TESTED AND CERTIFIED

TECHNISCHE DATEN

- GEEIGNET FÜR KLEINWARE AUF DREHBANK MIT HOHE HERSTELLUNG
- MÖGLICHKEIT VON DREHEN MIT SEHR KLEINE DURCHMESSER, DANK DER ZURÜCKFÜHRUNG VON DEM MAX DURCHMESSER DES MITLAUFENDE KÖRNERSPITZEN
- DER SPITZE IST GANZ GEHÄRTET UND GESCHLIFFEN MIT SEHR GENAUIGKEIT MASCHINEN
- HOHE DREHGESCHWINDIGKEIT UND KOMPACT ABMESSUNGEN
- HOHE QUALITÄT VON EINBAUSTOFF
- VERHÄLTNIS QUALITÄT/PREISE SEHR KONKURRENZFÄHIGKEIT
- ALLE SCOTTI PRODUKTE SIND GEPRÜFT UND SELBBESCH EINIGT

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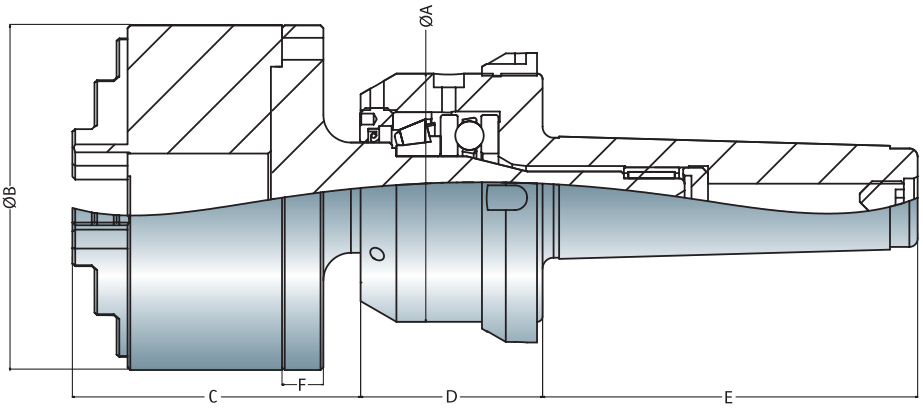
Serie MA

CONTROPUNTA PORTA AUTOCENTRANTE PER SOSTEGNO PEZZI

LIVE CENTER WITH CHUCK FOR CYLIDRICAL PIECES HOLD

MITLAUFENDE REITSTOCKSPITZEN MIT SPANNFUTTER FÜR ZYLINDRICAL STÜCK



CUSPIDE CON SEDE CILINDRICA PER APPLICAZIONE AUTOCENTRANTE DI DIVERSI MODELLI E DIAMETRI
POINT WITH CYLINDRICAL HOUSING FOR CHUCK APPLICATION WITH DIFFERENT MODELS AND DIAMETERS
SPITZE MIT ZYLINDRISCHEN GEHÄUSE FÜR DEN SPANNFUTTER EINSATZ VON VERSCHIEDENEN MODELLEN UND DURCHMESSERN

CARATTERISTICHE GENERALI / TECHNICAL DATA / TECHNISCHE DATEN

CONO MORSE MORSE TAPER MORSE KONUS	**DIMENSIONI** DIMENSIONS ABMESSUNG (mm)					**CARICO** / LOAD BELASTUNG		**ECCENTRICITA'** ECCENTRICITY UNMITTIGKEIT (mm)	**MAX GIRI/1'** RPM MAX tr/m	**PESO** WEIGHT GEWICHT (Kg)	**AUTOCENTRANTE CONSIGLIATO** CHUCK RECOMMENDED SPANNFUTTER EMPFOHLEN (ØB)	**SERIE** SERIES	**CODICE** CODE	
	ØA	**C**	**D**	**E**	**F**	**ASSIALE** AXIAL (N)	**RADIALE** RADIAL (N)							
⊗ **4**	70	107	54	115	20	25000	20000	0,01	3500	3,5	80	POWER 4	RPW004.000.20	
⊗ **5**	90	126	65	136	20	35000	30000	0,01	2500	8,9	125	POWER 5	RPW005.000.19	
⊗ **6**	130	146,5	92,5	195	30	70000	110000	0,01	2000	19,1	160	POWER 6	RPW006.000.14	
⊗ **7**	185	190	148	284	35	110000	130000	0,01	1000	88	315	POWER 7	RPW007.000.09	
⊗ **80**	185	190	148	210	35	110000	130000	0,01	1000	88	315	POWER 80	RPW080.000.09	
⊗ **100**	185	190	148	242	35	150000	170000	0,01	1000	90	315	POWER 100	RPW0100.000.09	

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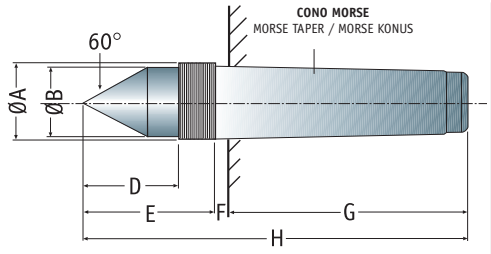
Serie FG

PUNTE FISSE PER TORNITURA CON GHIERA IN DOTAZIONE
DEAD CENTER FOR TURNING WITH DRAW-OFF NUT INCLUDED
FESTSTEHENDE ZENTRIERSPITZEN MIT ANSATZRING ZUM DREHEN

SERIE FG/S

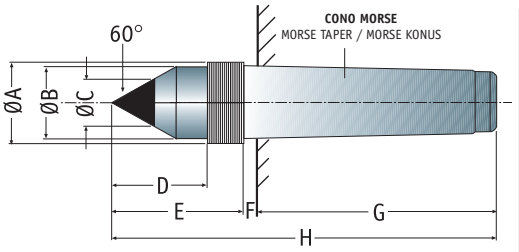
***PUNTA FISSA PER TORNIO CNC CON PUNTA A 60°** / FIXED DRILL FOR CN LATHE WITH POINT AT 60°*
FESTE KÖRNERSPITZEN FÜR DREHBANK MIT ABDRÜCKMUTTER UND SPITZENWINKEL 60°



CONO MORSE MORSE TAPER MORSE KONUS	DIMENSIONI / DIMENSIONS ABMESSUNG (mm)							CHIAVE EXTRACTOR KEY EXTRACTION SCHLÜSSEL (mm)	GHIERA RING NUT NUTMUTTER (KM)	SERIE SERIES	CODICE CODE	
	ØA	ØB	D	E	F	G	H					
3	M30x1,5	24	35	50	5	81	136	21	6	FG3/S	RFS003.000.17	
4	M35x1,5	31,5	41	56	6,5	102,5	165	28	7	FG4/S	RFS004.000.17	
5	M50x1,5	44	65	80	6,5	129,5	216	40	10	FG5/S	RFS005.000.17	
6	M70x2	64	80,5	95,5	8	182	285,5	60	14	FG6/S	RFS006.000.17	
80	M85x1,5	80,4	104,6	125,6	8	196	329,5	75	17	FG80/S	RFS080.000.17	
100	M105x2	100,5	122	143	10	232	385	95	21	FG100/S	RFS100.000.17	

SERIE FG/W

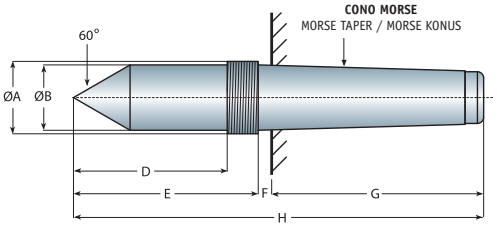
***PUNTA FISSA PER TORNIO CNC CON METALLO DURO** / FIXED DRILL FOR CN LATHE WITH HARD METAL*
FESTE KÖRNERSPITZEN FÜR DREHBANK MIT ABDRÜCKMUTTER UND MIT HARTMETALL-EINSATZ



CONO MORSE MORSE TAPER MORSE KONUS	DIMENSIONI / DIMENSIONS ABMESSUNG (mm)								CHIAVE EXTRACTOR KEY EXTRACTION SCHLÜSSEL (mm)	GHIERA RING NUT NUTMUTTER (KM)	SERIE SERIES	CODICE CODE	
	ØA	ØB	ØC	D	E	F	G	H					
3	M30x1,5	24	11	35	50	5	81	136	21	6	FG3/W11	RFS003.000.19	
3	M30x1,5	24	24	35	50	5	81	136	21	6	FG3/W24	RFS003.000.01	
4	M35x1,5	31,5	14	41	56	6,5	102,5	165	28	7	FG4/W14	RFS004.000.19	
4	M35x1,5	31,5	31,5	41	56	6,5	102,5	165	28	7	FG4/W31	RFS004.000.01	
5	M50x1,5	44	25	65	80	6,5	129,5	216	40	10	FG5/W25	RFS005.000.19	
5	M50x1,5	44	44	65	80	6,5	129,5	216	40	10	FG5/W44	RFS005.000.01	
6	M70x2	64	40	80,5	95,5	8	182	285,5	60	14	FG6/W40	RFS006.000.19	

SERIE FGL/S

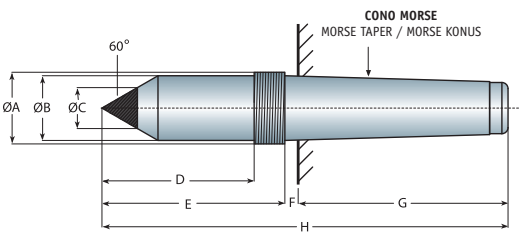
***PUNTA FISSA LUNGA PER TORNIO CNC CON PUNTA A 60°** / FIXED DRILL FOR CN LATHE WITH POINT AT 60°*
FESTE KÖRNERSPITZEN FÜR DREHBANK MIT ABDRÜCKMUTTER UND SPITZENWINKEL 60°



CONO MORSE MORSE TAPER MORSE KONUS	DIMENSIONI / DIMENSIONS ABMESSUNG (mm)							CHIAVE EXTRACTOR KEY EXTRACTION SCHLÜSSEL (mm)	GHIERA RING NUT NUTMUTTER (KM)	SERIE SERIES	CODICE CODE	
	ØA	ØB	D	E	F	G	H					
3	M30x1,5	24	70	85	5	81	171	21	6	FGL3/S	RFS003.000.26	
4	M35x1,5	31,5	81	96	6,5	102,5	205	28	7	FGL4/S	RFS004.000.06	
5	M50x1,5	44	105	120	6,5	129,5	256	40	10	FGL5/S	RFS005.000.27	
6	M70x2	64	110,5	125,5	8	182	315,5	60	14	FGL6/S	RFS006.000.02	

SERIE FGL/W

***PUNTA FISSA LUNGA PER TORNIO CNC CON METALLO DURO** / FIXED DRILL FOR CN LATHE WITH HARD METAL*
FESTE KÖRNERSPITZEN FÜR DREHBANK MIT ABDRÜCKMUTTER UND MIT HARTMETALL-EINSATZ



CONO MORSE MORSE TAPER MORSE KONUS	DIMENSIONI / DIMENSIONS ABMESSUNG (mm)								CHIAVE EXTRACTOR KEY EXTRACTION SCHLÜSSEL (mm)	GHIERA RING NUT NUTMUTTER (KM)	SERIE SERIES	CODICE CODE	
	ØA	ØB	ØC	D	E	F	G	H					
3	M30x1,5	24	11	70	85	5	81	171	21	6	FGL3/W11	RFS003.000.27	
3	M30x1,5	24	24	70	85	5	81	171	21	6	FGL3/W24	RFS003.000.28	
4	M35x1,5	31,5	14	81	96	6,5	102,5	205	28	7	FGL4/W14	RFS004.000.07	
4	M35x1,5	31,5	31,5	81	96	6,5	102,5	205	28	7	FGL4/W31	RFS004.000.08	
5	M50x1,5	44	25	105	120	6,5	129,5	256	40	10	FGL5/W25	RFS005.000.28	
5	M50x1,5	44	44	105	120	6,5	129,5	256	40	10	FGL5/W44	RFS005.000.29	
6	M70x2	64	40	110,5	125,5	8	182	315,5	60	14	FGL6/W40	RFS006.000.03	

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Serie FG

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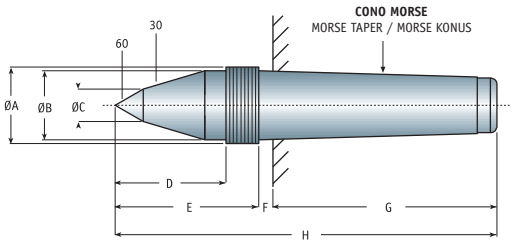
DEAD CENTER FOR TURNING WITH DRAW-OFF NUT INCLUDED
FESTE KORNERSPITZEN FÜR DREHEN MIT ABDRÜCHMUTTER INKLUSIVE

SERIE FG/T

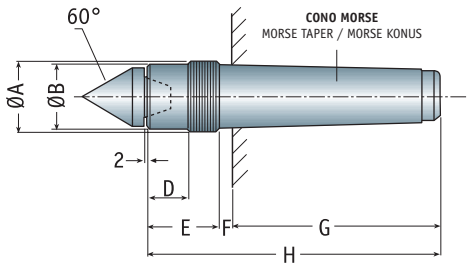
***PUNTA FISSA PER TORNIO CNC** / FIXED DRILL FOR CN LATHE*
FESTE KÖRNERSPITZEN FÜR DREHMASCHINE



CONO MORSE MORSE TAPER MORSE KONUS	DIMENSIONI / DIMENSIONS ABMESSUNG (mm)								CHIAVE EXTRACTOR KEY EXTRACTION SCHLÜSSEL (mm)	GHIERA RING NUT NUTMUTTER (KM)	SERIE SERIES	CODICE CODE	
	ØA	ØB	ØC	D	E	F	G	H					
3	M30x1,5	24	12	47	62	5	81	148	21	6	FG3/T	RFS003.000.20	
4	M35x1,5	31,5	15	56	71	6,5	102,5	180	28	7	FG4/T	RFS004.000.20	
5	M50x1,5	44	18	80	95	6,5	129,5	231	40	10	FG5/T	RFS005.000.20	
6	M70x2	64	20	124,4	139,4	8	182	329,4	60	14	FG6/T	RFS006.000.20	

SERIE FG/FS

***PUNTA FISSA PER TORNIO CNC (INTERCAMBIABILE)** / DEAD POINT FOR CN LATHE (INTERCHANGEABLE)*
FESTE KÖRNERSPITZEN FÜR DREHMASCHINE UND MIT AUSWECHSELBAREN EINSÄTZEN

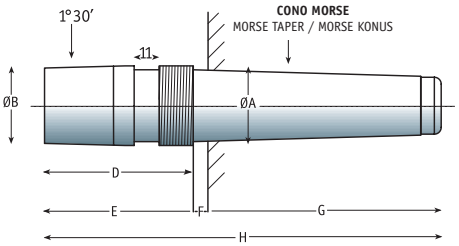


CONO MORSE MORSE TAPER MORSE KONUS	DIMENSIONI / DIMENSIONS ABMESSUNG (mm)							CHIAVE EXTRACTOR KEY EXTRACTION SCHLÜSSEL (mm)	SERIE SERIES	CODICE CODE	
	ØA	ØB	D	E	F	G	H				
3	M30x1,5	26	20	35	5	81	121	6	FG3/FS	RFS003.000.18	
4	M35x1,5	32	20	35	6,5	102,5	144	7	FG4/FS	RFS004.000.18	
5	M50x1,5	40	20	35	6,5	129,5	171	10	FG5/FS	RFS005.000.18	

* PER CUSPIDI INTERCAMBIABILI VEDI PAG. 12
* SEE INTERCHANGEABLE POINT PAGE 12
* SEHEN SIE DIE AUSWECHSELBAREN EINSÄTZEN AUF SEITE 12

SERIE FG/F

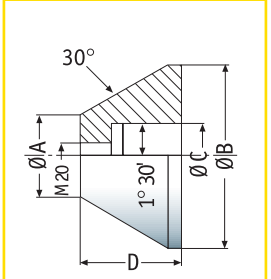
***PUNTA FISSA PER TORNIO CNC (CON CUSPIDE PORTA FLANGE)** / DEAD POINT FOR CN LATHE (TRUNCATED CONE)*
FESTE KÖRNERSPITZEN FÜR DREHMASCHINE UND MIT SPITZENSTUMPF



CONO MORSE MORSE TAPER MORSE KONUS	DIMENSIONI / DIMENSIONS ABMESSUNG (mm)							CHIAVE EXTRACTOR KEY EXTRACTION SCHLÜSSEL (mm)	GHIERA RING NUT NUTMUTTER (KM)	SERIE SERIES	CODICE CODE	
	ØA	ØB	D	E	F	G	H					
3	M30x1,5	35	50	65	5	81	151	21	6	FG3/F	RFS003.000.21	
4	M35x1,5	35	50	65	6,5	102,5	174	28	7	FG4/F	RFS004.000.21	
5	M50x1,5	35	50	65	6,5	129,5	231	40	10	FG5/F	RFS005.000.21	
6	M70x2	35	50	65	8	182	255	60	14	FG6/F	RFS006.000.21	

FLANGE PER PUNTE E CONTROPUNTE

HEADS FOR TRUNCATED CONE LIVE CENTERS
EINSÄTZEN FÜR MITLAUFENDE KÖRNERSPITZEN MIT SPITZENSTUMPF



DIMENSIONI / DIMENSIONS ABMESSUNG (mm)				SERIE SERIES	CODICE CODE	
ØA	ØB	ØC	D			
45	98	35	55	FPI/45/98	RPW000.001.05	
95	148	35	55	FPI/95/148	RPW000.002.05	
145	198	35	55	FPI/145/198	RPW000.003.05	
195	248	35	55	FPI/195/248	RPW000.004.05	
245	298	35	55	FPI/245/298	RPW000.005.05	

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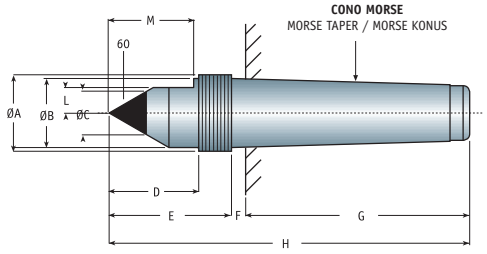
Serie FGR

PUNTE FISSE PER RETTIFICA CON GHIERA IN DOTAZIONE
DEAD CENTER FOR GRINDING WITH DRAW-OFF NUT INCLUDED
FESTE KORNERSPITZEN FÜR SCHLEIFEN MIT ABDRÜCHMUTTER INKLUSIVE

SERIE FGR/W

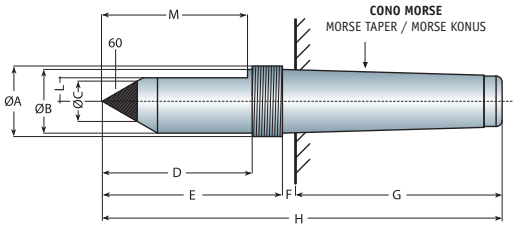
***PUNTA FISSA PER RETTIFICA CNC CON METALLO DURO** / FIXED DRILL FOR GRINDING WITH CARBIDE POINT*
FESTE KÖRNERSPITZEN FÜR SCHLEIFEN UND MIT HARTMETALL-EINSATZ



CONO MORSE MORSE TAPER MORSE KONUS	DIMENSIONI / DIMENSIONS ABMESSUNG (mm)										CHIAVE EXTRACTOR KEY EXTRACTION SCHLÜSSEL (mm)	GHIERA RING NUT NUTMUTTER (KM)	SERIE SERIES	CODICE CODE	
	ØA	ØB	ØC	D	E	F	G	H	L	M					
3	M30x1,5	24	11	35	50	5	81	136	7	33	21	6	FGR3/W11	RFS003.000.02	
3	M30x1,5	24	18	35	50	5	81	136	10,5	33	21	6	FGR3/W18	RFS003.000.22	
3	M30x1,5	24	24	35	50	5	81	136	9	33	21	6	FGR3/W24	RFS003.000.25	
4	M35x1,5	31,6	11	41	56	6,5	102,5	165	7	38	28	7	FGR4/W11	RFS004.000.02	
4	M35x1,5	31,6	14	41	56	6,5	102,5	165	8,5	38	28	7	FGR4/W14	RFS004.000.03	
4	M35x1,5	31,6	20	41	56	6,5	102,5	165	11,5	38	28	7	FGR4/W20	RFS004.000.04	
4	M35x1,5	31,6	31,6	41	56	6,5	102,5	165	10,5	38	28	7	FGR4/W31	RFS004.000.05	
5	M50x1,5	44,7	14	65	80	6,5	129,5	216	9	61	40	10	FGR5/W14	RFS005.000.02	
5	M50x1,5	44,7	30	65	80	6,5	129,5	216	17	61	40	10	FGR5/W30	RFS005.000.25	
5	M50x1,5	44,7	44,7	65	80	6,5	129,5	216	17	61	40	10	FGR5/W44	RFS005.000.26	
⊗ 6	M70x2	64	40	80,5	95,5	8	182	285,5	22	75	60	14	FGR6/W	RFS006.000.01	

SERIE FGRL/W LUNGA

***PUNTA FISSA PER RETTIFICA CNC CON METALLO DURO** / FIXED DRILL FOR GRINDING WITH CARBIDE POINT*
FESTE KÖRNERSPITZEN FÜR SCHLEIFEN UND MIT HARTMETALL-EINSATZ



CONO MORSE MORSE TAPER MORSE KONUS	DIMENSIONI / DIMENSIONS ABMESSUNG (mm)										CHIAVE EXTRACTOR KEY EXTRACTION SCHLÜSSEL (mm)	GHIERA RING NUT NUTMUTTER (KM)	SERIE SERIES	CODICE CODE	
	ØA	ØB	ØC	D	E	F	G	H	L	M					
3	M30x1,5	24	11	70	85	5	81	171	7	68	21	6	FGRL3/W11	RFS003.000.29	
3	M30x1,5	24	18	70	85	5	81	171	10,5	68	21	6	FGRL3/W18	RFS003.000.30	
3	M30x1,5	24	24	70	85	5	81	171	9	68	21	6	FGRL3/W24	RFS003.000.31	
4	M35x1,5	31,6	11	81	96	6,5	102,5	205	7	78	28	7	FGRL4/W11	RFS004.000.09	
4	M35x1,5	31,6	14	81	96	6,5	102,5	205	8,5	78	28	7	FGRL4/W14	RFS004.000.10	
4	M35x1,5	31,6	20	81	96	6,5	102,5	205	11,5	78	28	7	FGRL4/W20	RFS004.000.11	
4	M35x1,5	31,6	31,6	81	96	6,5	102,5	205	10,5	78	28	7	FGRL4/W31	RFS004.000.36	
5	M50x1,5	44,7	14	105	120	6,5	129,5	256	9	101	40	10	FGRL5/W14	RFS005.000.30	
5	M50x1,5	44,7	30	105	120	6,5	129,5	256	17	101	40	10	FGRL5/W30	RFS005.000.31	
5	M50x1,5	44,7	44,7	105	120	6,5	129,5	256	17	101	40	10	FGRL5/W44	RFS005.000.32	
⊗ 6	M70x2	64	40	110,5	125,5	8	182	315,5	22	105	60	14	FGRL6/W	RFS006.000.04	

⊗ ***SPECIALE A RICHIESTA** / ON DEMAND / AUF WUNSCH*

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RIPARAZIONE CONTROPUNTE ROTANTI

CODICE DESCRIZIONE	**CONO MORSE** / MORSE TAPER / MORSE KONUS				
	3	4	5	6	
RCONTO.01 RIAFFILATURA CUSPIDE					
RCONTO.02 RIAFFILATURA CUSPIDE SOSTITUZIONE CUSCINETTI					
RCONTO.03 SOSTITUZIONE CUSPIDE E SOSTITUZIONE CUSCINETTI					

RIPARAZIONE PUNTE FISSE

CODICE DESCRIZIONE	**CONO MORSE** / MORSE TAPER / MORSE KONUS				
	3	4	5	6	
RCONTO.04 RIAFFILATURA CUSPIDE					

LA SOSTITUZIONE DEL CUSPIDE IN METALLO DURO NON È FATTIBILE IN QUANTO POTREBBE RECARE DANNI AL MATERIALE DELLA PUNTA STESSA

SERVIZIO RIPARAZIONI ANCHE DI ALTRE MARCHE

**GARANZIA 6 MESI - CONSEGNA IN 48 ORE MAGGIORAZIONE DEL 30%
STANDARD 15/20GG. DATA RICEVIMENTO ORDINE**

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