

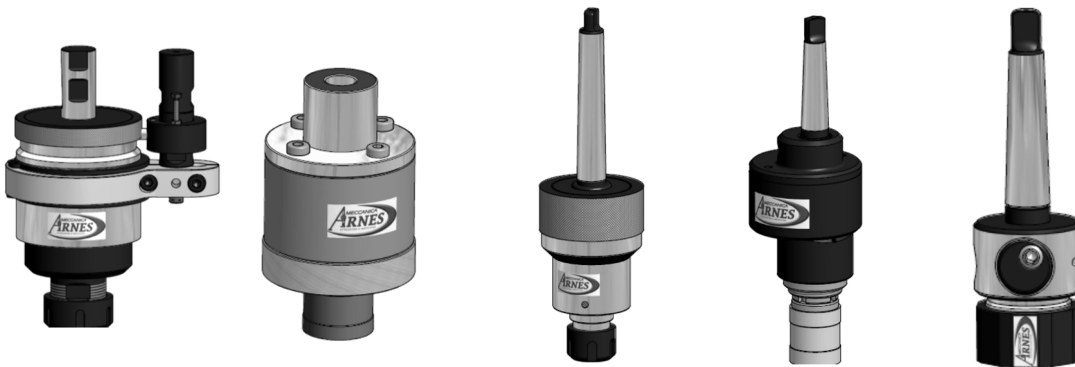
# APPARECCHI A MASCHIARE & ACCESSORI



## ATTREZZATURE SPECIALI PER MACCHINE E UTENSILI

CATALOGO GENERALE  
2017

## APPARECCHI A MASCHIARE CON INVERSIONE TAPPING INSTRUMENTS WITH REVERSAL - ROSCADORES CON INVERSIÓN



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## APPARECCHI A MASCHIARE - ATTACCO RAPIDO QUICK CHANGE TAPPING WITH AXIAL COMPENSATION - ROSCADORES CON CONEXIÓN RÁPIDA Y COMPENSATION AXIAL



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## BUSSOLE, PORTA MASCHI E PORTA FILIERA CONO ISO 15 CONO ISO 20 QUICK CHANGE BUSHINGS, TAPPING MACHIN FOR PARALLEL LATHE - BUJE DE CAMBIO RÁPIDA - TAPE ISO 15 TAPE ISO 20



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## ATTACCO BT MAS 403 BT MOUNT MAS 403



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## ATTACCO DIN 69871 – ISO 7388/1 DIN 69871 ATTACK DIN 69871 – ISO 7388/1



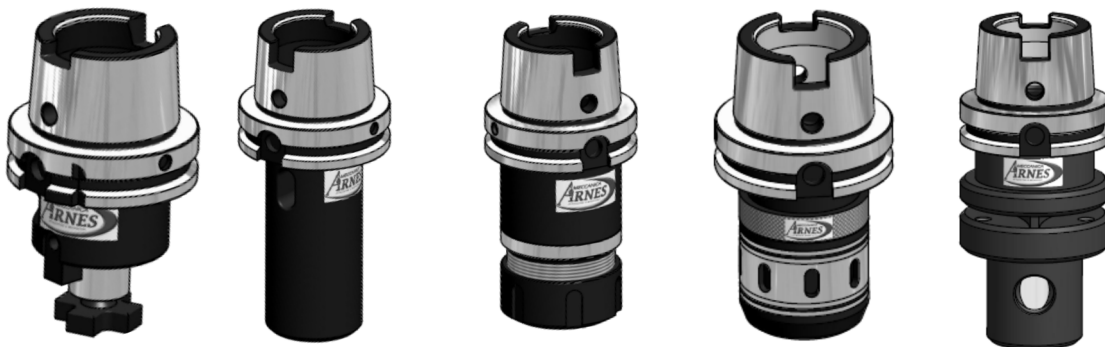
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## ATTACCO ISO DIN 2080 ISO DIN 2080 MOUNT



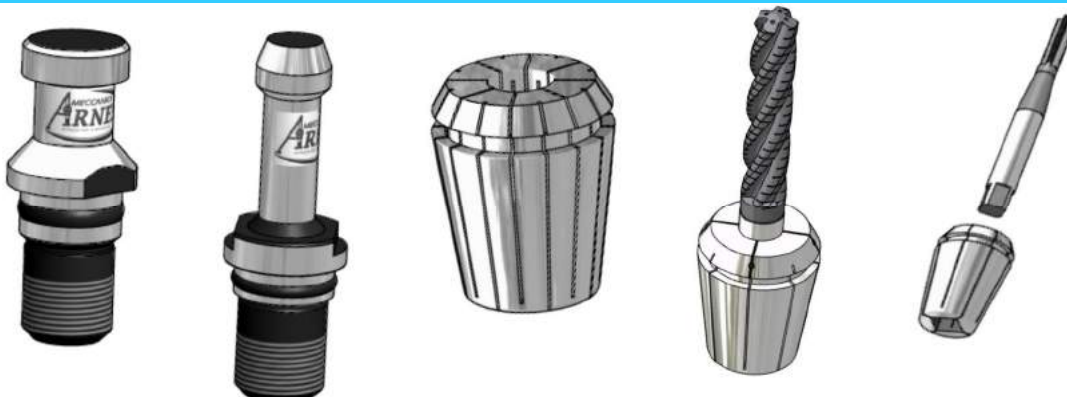
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## ATTACCO HSK HSK MOUNT



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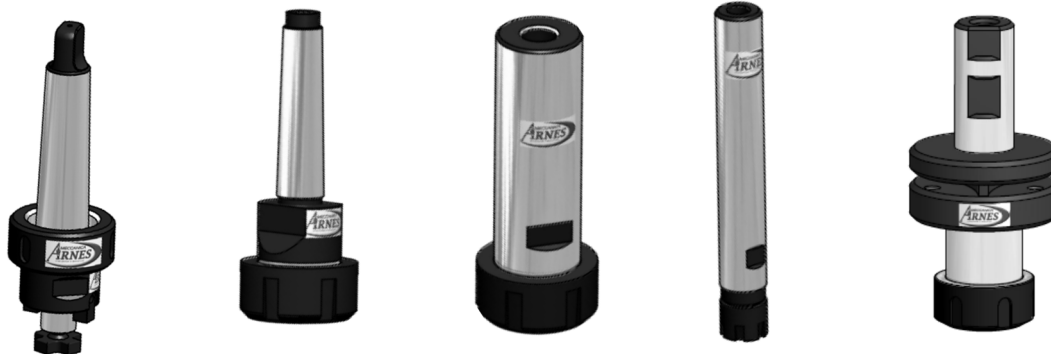
## TENONI PER MANDRINI – PINZE ER MULTI TAGLIO TULLSTUDS FOR CHUCKS – ER COLLETS TIRANTES PARA MANGO – PINZAS ER



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CM & CILINDRIC MOUNT



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## ACCESSORI

ACCESSORIES



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Rendiamo noto che le informazioni e le misure riportate in questo catalogo sono indicative e possono variare in qualsiasi momento senza obbligo di preavviso.



We notify that the information reported in this catalogue are indicative and could be changed at any moment without any obligation of notice.



Tenga cuenta que le información y las medidas que figuran este catalogo son indicativos y puede cambiar en cualquier momento sin previo aviso.



# ZERO TOP "0.000"

PER ALESATURA DI QUALITA' SUPERIORE  
BORING FOR QUALITY OF TOP  
ABURRIDO DE LA CALIDAD DE LOS TOP

**NEW**



Precisione micrometrica.  
Sistema meccanico rapido ed efficace di messa a punto dell'utensile. Alta qualità di alesatura e migliori finiture di superfici.  
Ristrette tolleranze di foratura ed alesatura. Allunga la vita dell'utensile. Esalta le caratteristiche dell'utensile. Passaggio di refrigerante all'interno.



Micrometric precision.  
Rapid and effective mechanic system for the tool finalising. High quality of reaming and best finish of surfaces. Small tolerances for working. It extends the life of the tool. It exalts the characteristics of the tool.  
Coolant flow.



Micrómetro de precisión.  
Sistema mecánico rápido y eficaz herramienta de ajuste.  
Alisadura de alta calidad y mejores acabados superficiales. Tolerancias utilizadas para el taladrado y fresado. Herramienta de una vida más larga. Pasillo en el interior del refrigerante.



**APPARECCHI A MASCHIARE CON INVERSIONE AUTOMATICA CON COMPENSAZIONE ASSIALE A COMPRESSIONE E TRAZIONE** Art. MR ... MF ...

**TAPPING INSTRUMENTS WITH AUTOMATIC REVERSAL WITH AXIAL COMPENSATION, COMPRESSION AND TRACTION**

**DISPOSITIVOS CON INVERSIÓN DE ROSCADO AUTOMÁTICO CON COMPRESIÓN AXIAL Y TENSIÓN**

## TIPO MF E TIPO MR - MF AND MR MODELS

**MF:** Apparecchio con inversione e frizione di sicurezza regolabile.

**Utilizzo:** su tutte le macchine con senso di rotazione della macchina non invertibile. Protezione ermetica da impurità.

**MF:** Instrument with reversal and adjustable safety clutch.

**Use:** on every machine with unreversible rotation gear. Impurity hermetical protection.

**MF:** Aparatos con inversión de seguridad ajustable y marcha atrás

**Uso:** de todas las máquinas con un sentido de rotación de la máquina no es invertible. Protección hermética de la contaminación.

**MR:** Apparecchio con inversione.

**Utilizzo:** su macchine a CN utilizzando un ciclo di alesatura G85. Grazie al suo indesaggio è possibile montarlo su diverse macchine a CN. Protezione ermetica da impurità.

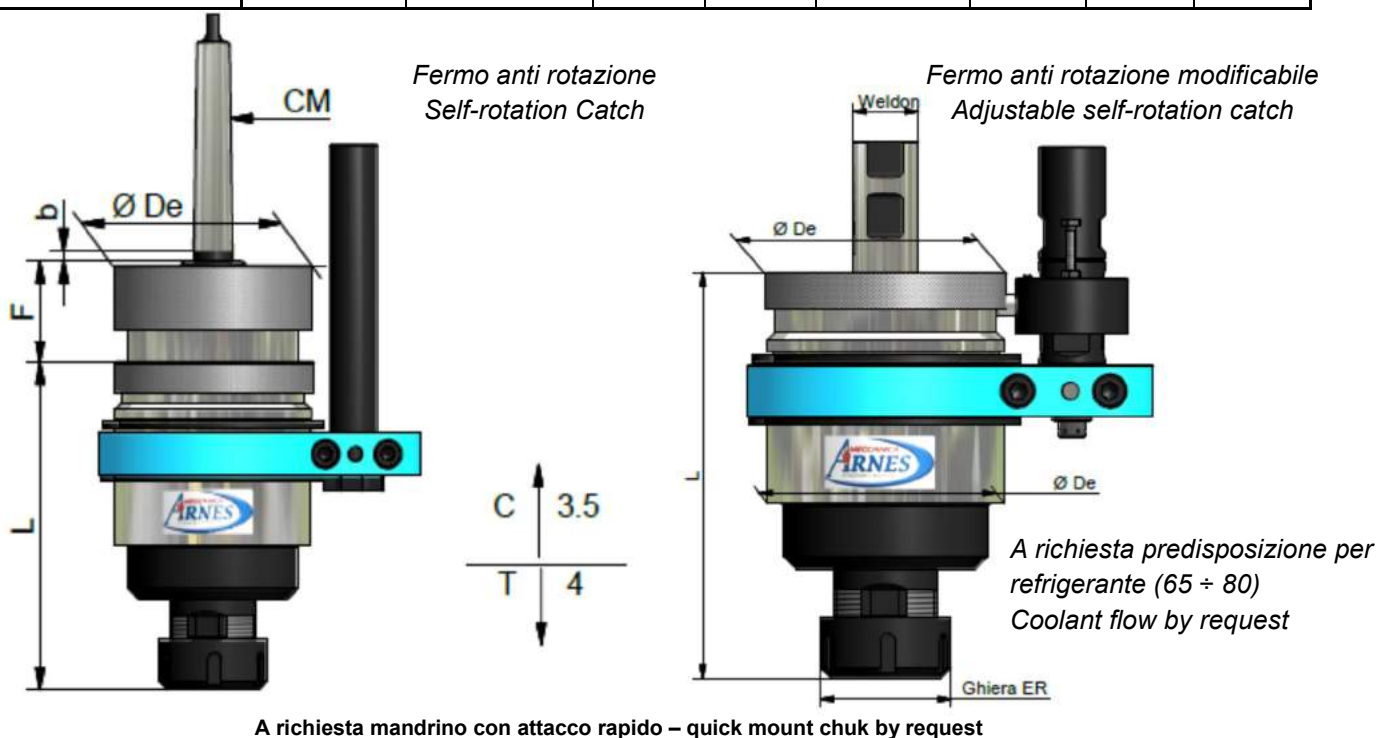
**MR:** instrument with reversal.

**Use:** on CN machines using G85 boring cycle. It is possible assembling MR on many CN machines for its. Impurity hermetical protection.

**MR:** Aparatos con inversión.

**Uso:** de la máquina de CNC utilizando un ciclo G85 aburrido. Gracias a su indesaggio se puede montar en diferentes máquinas de control numérico. Protección hermética contra la contaminación.

MODELLO MODEL	Capacità Capacity	Attacco Weldon Cono Morse	L	De	Pinza ER ER Collet	F	N° Giri max	B
MF0310 CM 2 - 3	M 03 - 10	CM 2 - 3	120	67	20	35	2500	5
MR0310 W 25	M 03 - 10	W 25	120	67	20	-	2500	-
MF0310 W25	M 03 - 10	W 25	120	67	20	35	2500	-
MF0816 CM 2-3	M 08 - 16	CM 2 - 3	125	75	25	42	2000	5
MR0816 W 25	M 08 - 16	W 25	125	75	25	-	2000	-
MF0816 W25	M 08 - 16	W 25	125	75	25	42	2000	-
MF1022 CM 3 - 4	M 10 - 22	CM 3 - 4	153	90	32	43	1000	5 - 6,5
MR1022 W32	M 10 - 22	W 32	153	90	32	-	1000	-
MF1022 W32	M 10 - 22	W32	153	90	32	-	1000	-

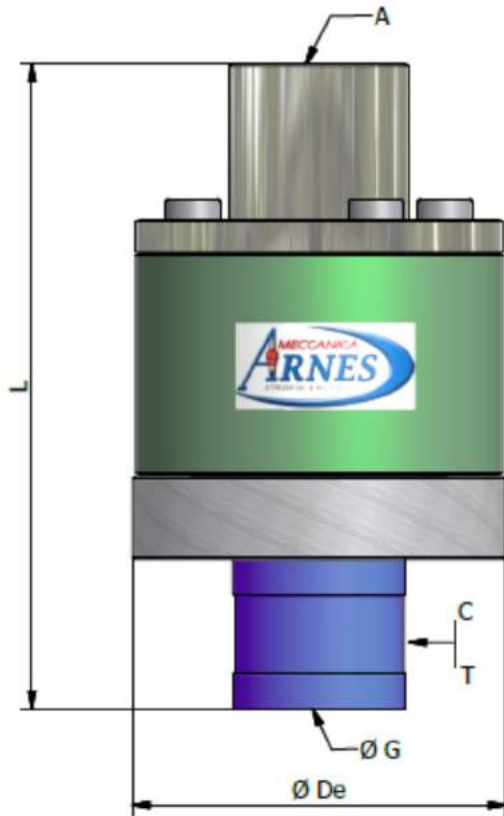


APPARECCHI A MASCHIARE CON INVERSIONE AUTOMATICA	Art. JA ...
TAPPING INSTRUMENTS WITH AUTOMATIC REVERSAL	Art. JA ...
ROSCADORES CON INVERSO AUTOMATICO	Art. JA ...

**NEW**

TIPO JA - MASCHIATORE CON INVERSIONE AUTOMATICA  
 TYPE JA – TAPPING WITH AUTOMATIC TURN  
 TIPO JA – ROSCADORES CON INVERSO AUTOMÁTICO

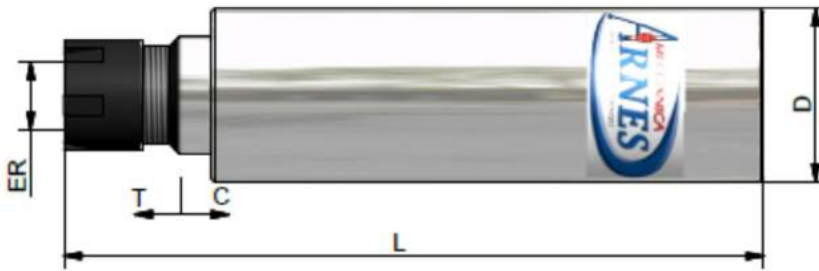
Art. JA



ART.	CAPACITA'	GIRI (MAX)	L	A	De	G	C	T
JA0107	M1-M7	1500	98 mm	B 12	54 mm	13 mm	1 mm	3 mm
JA0312	M3-M12	1300	136 mm	B 16	73 mm	19 mm	1 mm	5 mm
JA1230	M12-M27	800	186 mm	B 22	108 mm	31 mm	1 mm	5 mm

**MANDRINO A MASCHIARE SINCRONIZZATO CON PINZA ER  
ER SPINDLE OF TAPPING SYNCHRONIZED WITH ER COLLET  
CHUCK ER A ROSCAR A MACHO SINCRONIZADA**

**NEW**



ART.	Campo di filettatura Thread Range	ER	D	L	C	T
STC0801600	M1-M3	08	16,00	90	0,3	0,5
STC0801905			19,05			
STC0802000			20,00			
STC1101905	M3-M6	11	19,05	100	0,3	0,5
STC1102000			20,00			
STC1102500			25,00			
STC1102540			25,40			
STC1601905	M4-M8	16	19,05	110	0,3	0,5
STC1602000			20,00			
STC1602500			25,00			
STC1602540			25,40			
STC2001905	M4-M10	20	19,05	110	0,3	0,5
STC2002000			20,00			
STC2002500			25,00			
STC2002540			25,40			
STC2003200			32,00			
STC2501905	M4-M16	25	19,05	110	0,3	0,5
STC2502000			20,00			
STC2502500			25,00			
STC2502540			25,40			
STC2503200			32,00			



**APPARECCHI A MASCHIARE CON FRIZIONE REGOLABILE E COMPENSAZIONE, A COMPRESIONE E TRAZIONE**

Art. TF ...

**TAPPING INSTRUMENTS WITH AUTOMATIC REVERSAL WITH AXIAL COMPENSATION, COMPRESSION AND TRACTION**

**ROSCADO CON EQUIPO DE EMBRAGUE AJUSTABLE Y COMPENSACIÓN, COMPRESIÓN Y TENSIÓN**

## TIPO TF – TYPE TF

**Caratteristiche:** apparecchio con frizione di sicurezza regolabile, con compensazione a compressione 3,5 mm circa per attacco morbido dell'utensile sul pezzo da lavorare e compensazione a trazione 10 mm.

Protezione ermetica da impurità.

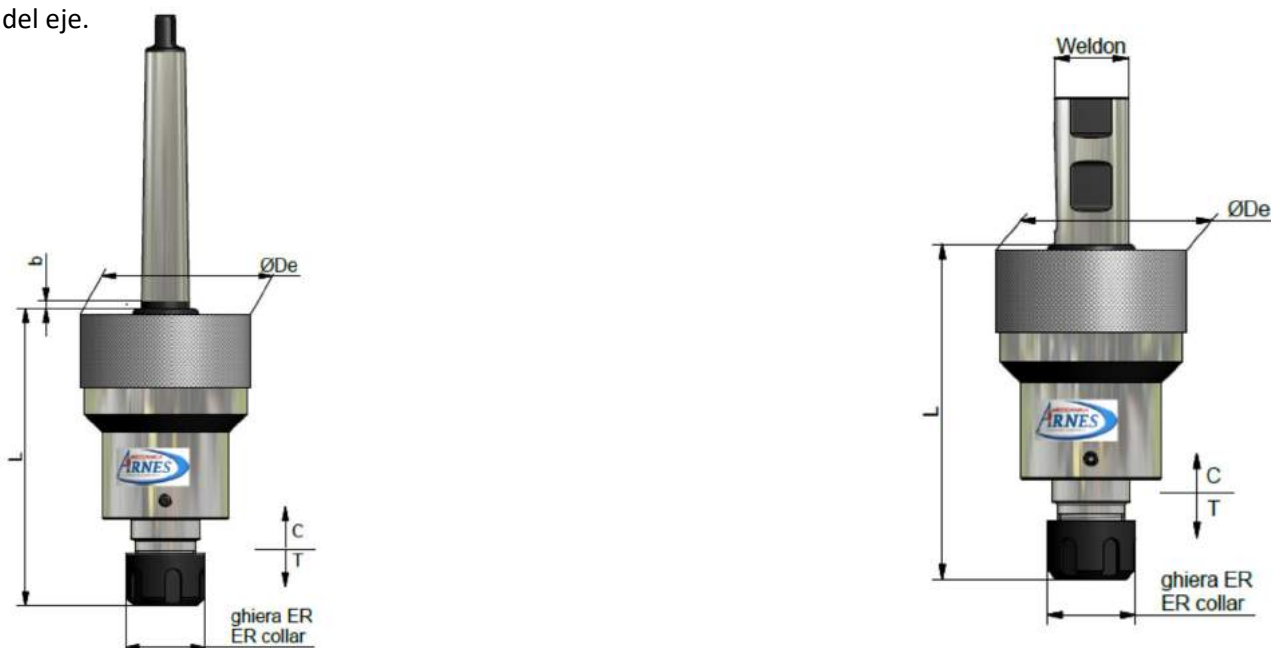
**Utilizzo:** su trapani a colonna, maschiatrici, fresatrici, torni tradizionali dove è possibile invertire il senso di rotazione del mandrino.

**Characteristics:** Instrument with adjustable safety clutch, with compression compensation about 3,5 mm to obtain a pliable contact of tool on unworked piece and traction compensation 10 mm. Impurity hermetical protection.

**Use:** On pillar drills, tappings, milling cutters, traditional lathes where it is possible to reverse the chuck rotation.

**Características:** aparato con seguridad fricción ajustable, con compresión compensación aproximadamente 3,5 mm para el ataque suave de la herramienta sobre la pieza de trabajo y compensación para conducir 10 mm. Protección hermética contra la contaminación.

**Uso:** de los taladros, la grabación, fresado, torneado tradicional donde se puede cambiar el sentido de giro del eje.



MODELLO MODEL	Capacità Capacity	Attacco Weldon Cono Morse	L	De	Pinza ER ER Collet	Comp C	Traz. T	B
TF0310 CM 2	M 03 – 10	CM 2	114	65	20	3,5	10	5
TF0310 W 25	M 03 – 10	W 25	114	65	20	3,5	10	-
TF0816 CM 2-3	M 08 – 16	CM 2 – 3	127	75	25	3,5	10	5
TF0816 W 25	M 08 – 16	W 25	127	75	25	3,5	10	-
TF1224 CM 3	M 12 – 24	CM 3	144	90	32	4	15	5
TF1224 W 32	M 12 – 24	W 32	144	90	32	4	15	-
TF2036 CM 4	M 20 – 36	CM 4	192	90	40	4	17	6,5

## TIPO TC - TYPE TC

**Caratteristiche:** compensazione a compressione 3,5 mm circa per attacco morbido dell'utensile sul pezzo da lavorare e compensazione a trazione 10 mm. Protezione ermetica da impurità.

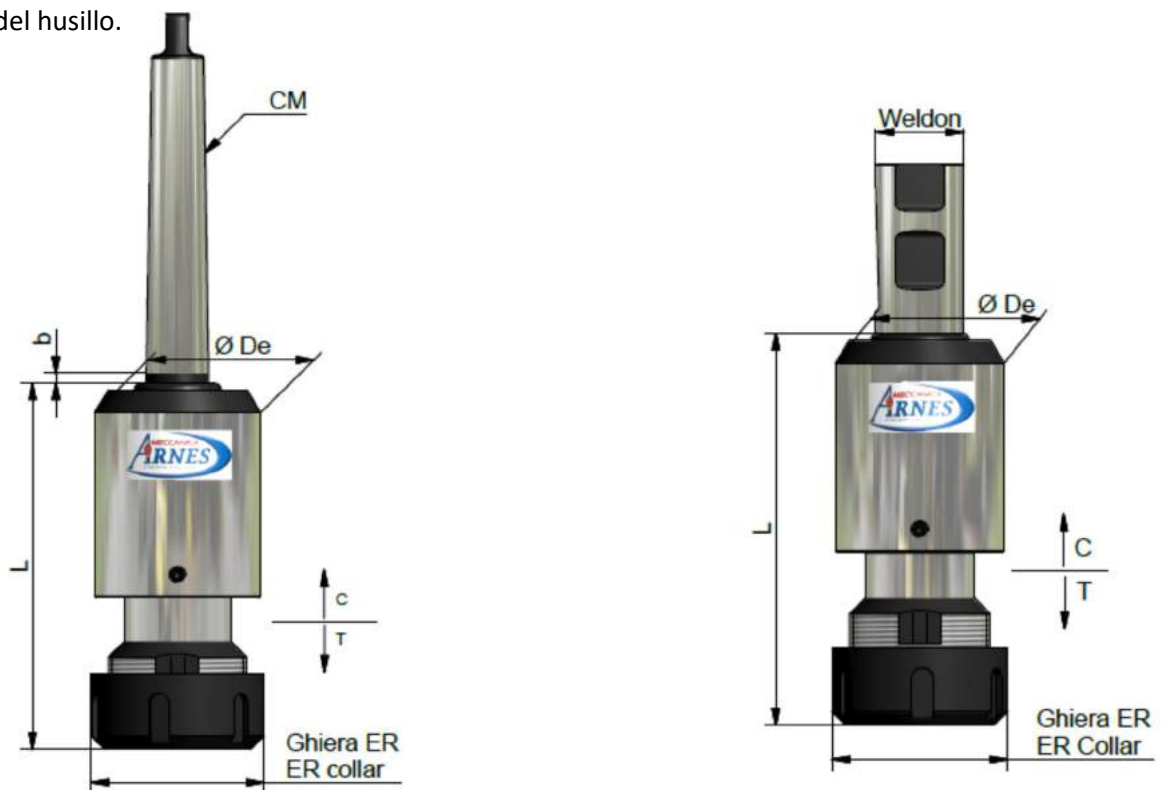
**Utilizzo:** su trapani, maschiatrici, fresatrici, torni tradizionali, macchine a CN dove è possibile invertire il senso di rotazione del mandrino.

**Characteristics:** compression compensation 3,5 mm about, for pliable contact of tool on unworked piece and traction compensation 10 mm. Impurity hermetical protection.

**Use:** on drill, tappings, milling cutters, traditional lathes, CN machines where it is possible to reverse the chuck rotation.

**Características:** compensación de compresión alrededor de 3,5 mm para el ataque suave de la herramienta sobre la pieza de trabajo y compensación para conducir 10 mm. Protección hermética de la contaminación.

**Uso:** en taladro, terraja, fresadora, torno tradicional, máquina CNC donde es posible invertir la dirección de rotación del husillo.



MODELLO MODEL	Capacità Capacity	Attacco Weldon Cono Morse	L	De	Pinza ER ER Collet	Comp C	Traz. T	B
TC0310 CM 2	M 03 – 10	CM 2	97	43	20	3,5	10	5
TC0310 W 25	M 03 – 10	W 25	97	43	20	3,5	10	-
TC0816 CM 2-3	M 08 – 16	CM 2 – 3	104	48	25	3,5	10	5
TC0816 W 25	M 08 – 16	W 25	104	48	25	3,5	10	-
TC1224 CM 3	M 12 – 24	CM 3	105	58	32	4	15	5
TC1224 W 32	M 12 – 24	W 32	105	58	32	4	15	-
TC2036 CM 4	M 20 – 36	CM 4	165	73	40	4	17	6,5
TC3664 CM 4	M 36 – 56	CM 4	181	88	50	3,5	18	6,5

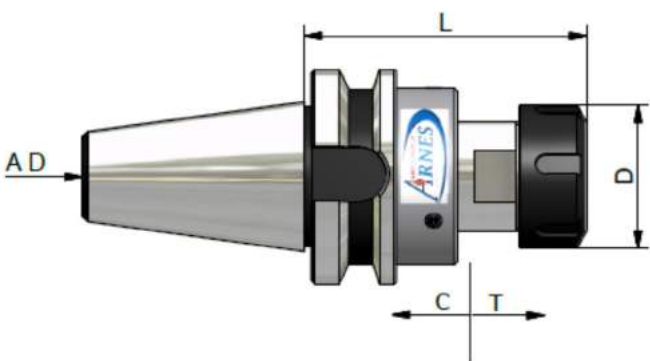
APPARECCHI A MASCHIARE	Art. TC ...
TAPPING INSTRUMENTS	Art. TC ...
DISPOSITIVOS DE ROSCADO	Art. TC ...

**TIPO TC VERSIONE CON CONO ISO 40 – 50 – DIN 69871 – MAS 403 BT**  
**TYPE TC WITH ISO 40 – 50 – DIN 69871 – MAS 403 BT CONE**

**Caratteristiche:** compensazione a compressione per attacco morbido dell'utensile e compensazione a trazione. Protezione ermetica dalle impurità.

**Characteristics:** compression compensation for tool pliable contact and traction compensation. Impurity hermetical protection.

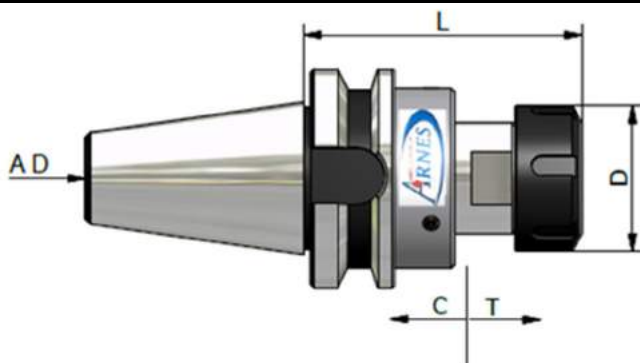
**Características:** compensación de compresión mórbida apego a la herramienta y llevarlo a cabo. Herméticamente sellada contra el polvo.



DIN 69871



MODELLO MODEL	Capacità Capacity	L	D	Pinza ER ER Collet	Comp C	Traz. T
TC0310 ISO 40	M 03 – 10	82	35	20	3,5	10
TC0816 ISO 40	M 08 – 16	87	42	25	3,5	10
TC1224 ISO 40	M 08 – 24	103	50	32	3,5	10
TC0816 ISO 50	M 08 – 16	87	42	25	3,5	10
TC1224 ISO 50	M 08 – 24	103	50	32	3,5	10



BT MAS 403



MODELLO MODEL	Capacità Capacity	L	D	Pinza ER ER Collet	Comp C	Traz. T
TC0310 BT 40	M 03 – 10	82	35	20	3,5	10
TC0816 BT 40	M 08 – 16	87	42	25	3,5	10
TC1224 BT 40	M 08 – 24	103	50	32	3,5	10
TC0816 BT 50	M 08 – 16	87	42	25	3,5	10
TC1224 BT 50	M 08 – 24	103	50	32	3,5	10

APPARECCHI A MASCHIARE	Art. ER 32 CT ...
TAPPING INSTRUMENTS	Art. ER 32 CT ...
DISPOSITIVOS DE ROSCADO	Art. ER 32 CT ...

**PINZA ER 32 COMPENSATA A TRAZIONE CAPACITÀ M 3 – M 14**  
**ER 32 TRACTION COMPENSATED COLLET WITH M 3 – M 14 CAPACITY**

**Caratteristiche:** compensazione a trazione, cambio del maschio direttamente sul mandrino, senza dover smontare la pinza.

**Dettaglio:** anello tenuta per tenere pulito il perno porta maschio ed evitare il grippaggio. Scorrimento e traino a sfera per perno porta maschio.

**Characteristics:** traction compensation, male change directly on the chuck, without removing the collet.

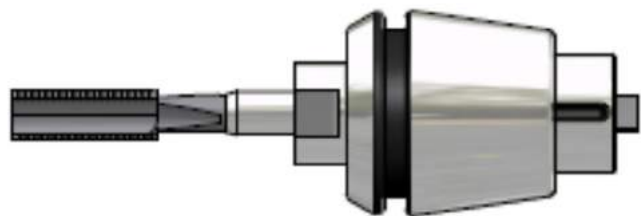
**Details:** hold ring to keep clean the male holder pivot and to prevent seizing up. Ball sliding and drawing for male holder pivot.

**Características:** compensación a la tracción, el intercambio del macho directamente en el husillo, sin tener que desmontar la pinza.

**Detalle:** el anillo de sello para mantener limpio el puerto pines macho y evitar el bloqueo. Desplazamiento y el puerto de remolque pin ball masculino.



<b>Art. ER 32 CT</b>							
Ø D	Ø 4,5	Ø 6	Ø 7	Ø 8	Ø 9	Ø 10	Ø 11
M DIN 352	M 4	M 5 – M 6	G 1/8	M 8	M 12	M 10	M 14



APPARECCHI A MASCHIARE	Art. A .....
TAPPING INSTRUMENTS	Art. A .....
EQUIPAMIENTO A ROSCAR A MACHO	Art. A .....

## TIPO A - TYPE A

CON INVERSIONE AUTOMATICA E FRIZIONE REGOLABILE  
 AUTOMATIC TURN AND ADJUSTABLE CLUTCH  
 CON INVERSO AUTOMÁTICO E FRIZION REGULABLE

ART	Campo di Maschiatura	Testina Autocentrante	Testina Attacco Rapido	Attacco Misura	Attacco CM	Lunghezza L
	Tapping Range	<u>Self Balancing</u>	Quick Mount Head	Mount Gauge	CM Mount	Lenght
A10 CM201	3 - 10	YES	-		2	162
A10 CM202	3 - 10	-	YES	1	2	162
A16 CM201	8 - 16	YES	-		2	186
A16 CM202	8 - 16	-	YES	2	2	186
A16 CM301	8 - 16	YES	-		3	186
A16 CM302	8 - 16	-	YES	2	3	186
A22 CM301	12 - 24	YES	-		3	230
A22 CM302	12 - 24	-	YES	2	3	230
A22 CM401	12 - 24	YES	-		4	230
A22 CM402	12 - 24	-	YES	2	4	230



*Testina autocentrante  
Self balancing head*

*Testina cambio rapido  
Quick change head*



APPARECCHI A MASCHIARE	Art. R ...
TAPPING INSTRUMENTS	Art. R ...
EQUIPAMENTO A ROSCAR A MACHO	Art. R ...

## TIPO R – TYPE R

CON FRIZIONE REGOLABILE PER MACCHINE CON INVERSIONE DI MARCIA  
 WITH ADJUSTABLE CLUTCH FOR MACHINES WITH REVERSAL GEAR  
 CON FRIZION REGULABLE PARA MÁQUINA CON INVERSOR ROTACIÓN

*Testina autocentrante  
 Self balancing head*

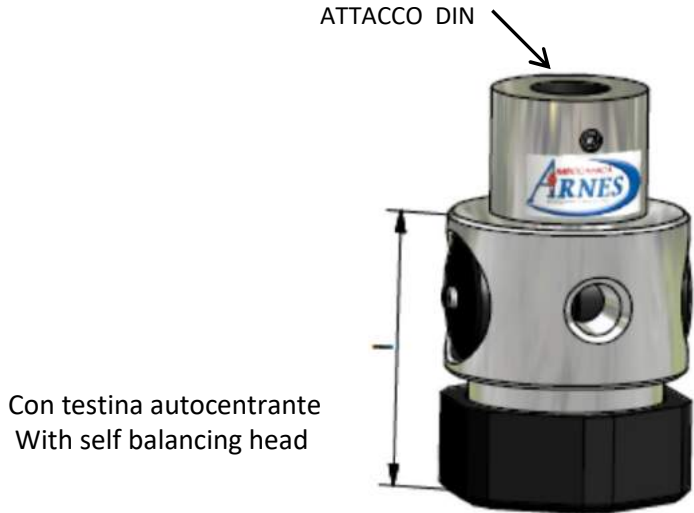


ART	Campo di Maschiatura (mm)	Altezza ingombro escluso cono (mm)	Altezza cono Morse (mm)	Attacco CM
	Tapping Range (mm)	Obstruction height (mm)	Cone height (mm)	CM Mount
R 10 CM 1	3 – 10	90	1 = 66	1
R 10 CM 2	3 – 10	90	2 = 79	2
R 16 CM 2	8 – 16	105	2 = 79	2
R 16 CM 3	8 – 16	105	3 = 98	3
R 22 CM 3	12 – 24	130	3 = 98	3
R 22 CM 4	12 - 24	130	4 = 124	4

<b>APPARECCHI A MASCHIARE</b>	<b>Art. B ...</b>
<b>TAPPING INSTRUMENTS</b>	<b>Art. B ...</b>
<b>EQUIPAMENTO A ROSCAR A MACHO</b>	<b>Art. B ...</b>

**MANDRINO PORTA MASCHI A CONO FEMMINA PER MACCHINE CON INVERSIONE DI MARCIA  
 FEMALE CONE MALES HOLDER CHUCK FOR MACHINE WITH REVERSAL GEAR  
 MANDRIL PUERTA DEL CONO HEMBRA MACHO PARA MÁQUINA CON INVERSOR ROTACIÓN**

**TIPO B – TYPE B**



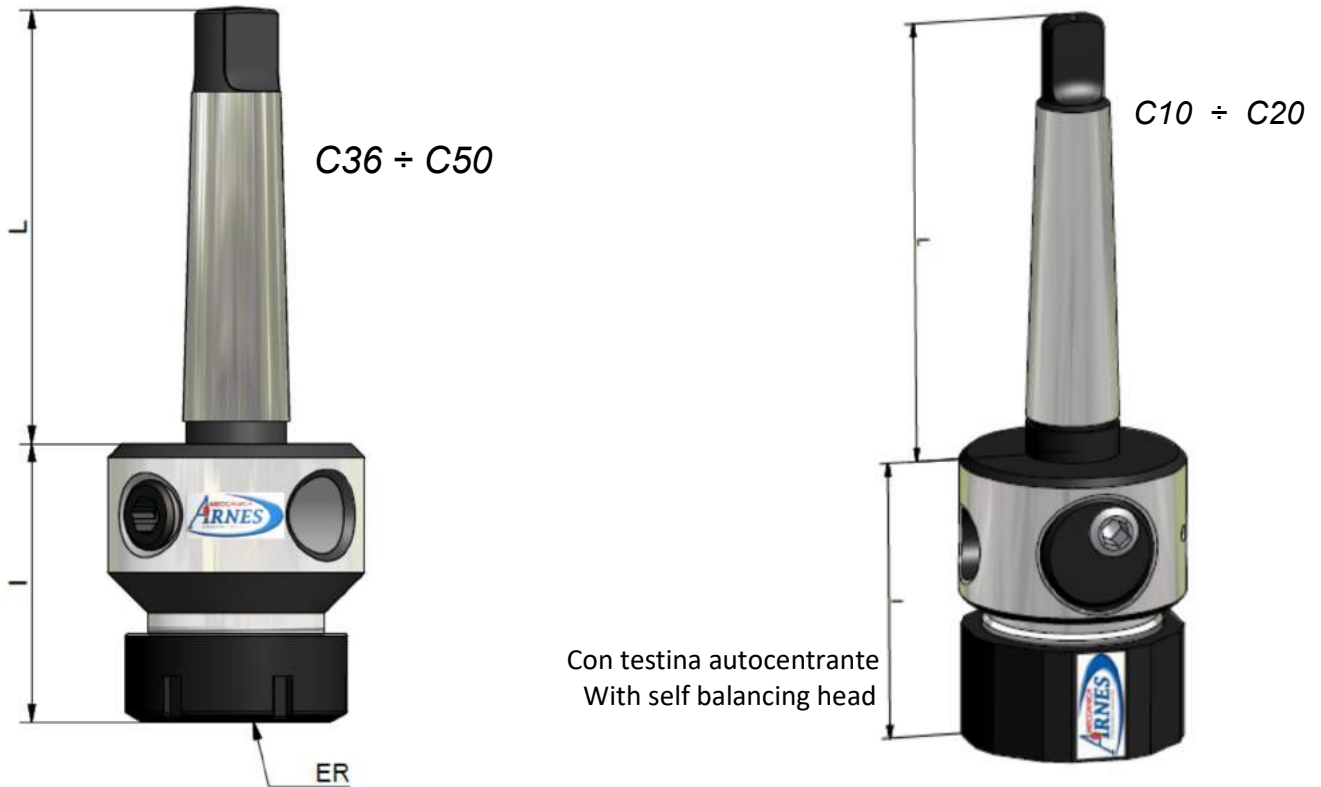
ART	Preso Ø gambo maschio (mm)	Campo di maschiatura (mm)	Attacco DIN	Altezza ingombro escluso cono (mm)
	Male shank socket Ø (mm)	Tapping Range (mm)	DIN Mount	Obstruction height (mm)
B 10 – B12	3 – 10	3 - 12	B 12	50
B 10 – B 16	3 – 10	3 - 12	B 16	50
B 10 – J 2	3 – 10	3 - 12	JACOBS 2	50
B 14 - B 16	8 – 14	10 - 18	B 16	60
B 20 - B 18	10 - 20	14 - 28	B 18	70

\*attacchi speciali a richiesta  
 \*special mounts by request  
 \*apéndice a pedido especial

APPARECCHI A MASCHIARE	Art. C ...
TAPPING INSTRUMENTS	Art. C ...
EQUIPAMENTO A ROSCAR A MACHO	Art. C ...

## TIPO C – TYPE C

MANDRINO PORTA MASCHI A CONO MORSE PER MACCHINE CON INVERSIONE DI MARCIA  
 MORSE CONE MALES HOLDER CHUCK FOR MACHINE WITH REVERSAL GEAR  
 MANDRIL PUERTA MACHO PARA MÁQUINA CON INVERSOR ROTACIÓN

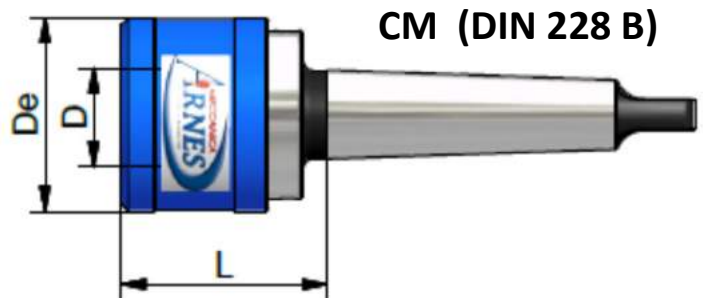
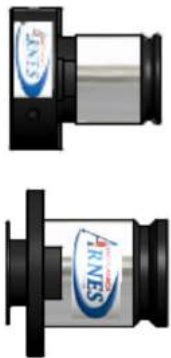


ART	Pres a Ø gambo maschio (mm)	Campo di Maschiatura (mm)	Attacco CM	Altezza ingombro escluso cono (mm)	Altezza cono (mm)	Pinza ER
	Male shank soket Ø (mm)	Tapping Range (mm))	CM Mount	Obstruction height (mm)	Cone height (mm)	ER Collet
C 10 CM 1	3 – 10	3 - 12	1	50	73	-
C 10 CM 2	3 – 10	3 - 12	2	50	86	-
C 14 CM 2	8 – 14	10 – 18	2	60	86	-
C 20 CM2	10 – 20	14 – 24	2	70	89	-
C 20 CM 3	10 – 20	14 – 24	3	70	108	-
C 20 CM 4	10 – 20	14 – 24	4	70	134	-
C 36 CM 4	18 – 30	20 – 36	4	90	134	40
C 50 CM 4	25 -34	30 – 50	4	130	134	50

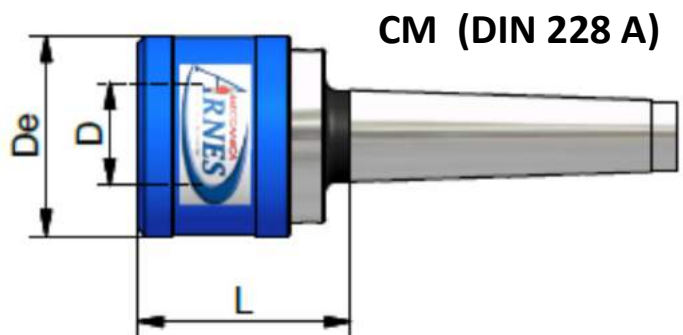
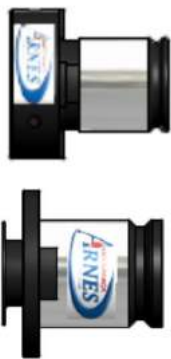


<b>APPARECCHI A MASCHIARE</b>	Art. MAR .....	CM ...
<b>TAPPING INSTRUMENTS</b>	Art. MAR .....	CM ...
<b>EQUIPAMENTO A ROSCAR A MACHO</b>	Art. MAR .....	CM ...

MASCHIATORI ATTACCO RAPIDO PER MASCHIARE CON COMPENSAZIONE ASSIALE  
 QUICK CHANGE TAPPING WITH AXIAL COMPENSATION  
 ROSCADORES RÁPIDA PARA ROSCAR A MACHO CON COMPENSAZIÓN AXIAL



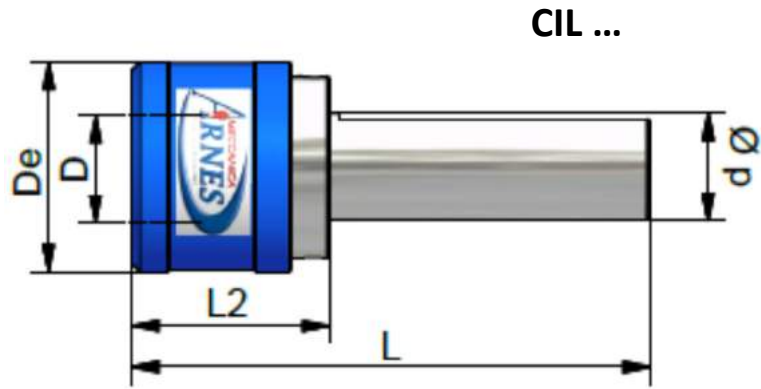
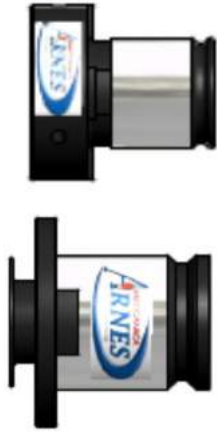
ART	Campo di filettatura Thread Range	Per Bussole Suitable for Bushing	Compensazione assiale Length		DE ∅	D ∅	CM 2 L	CM 3 L	CM 4 L
			Compensation Press. Comp.	Traz. Exp.					
MAR 1 CM 2	M 3 – M 12	1	7,5	7,5	36	19	47	-	-
MAR 1 CM 3	M 3 – M 12	1	7,5	7,5	36	19	-	47	-
MAR 2 CM 3	M 8 – M 20	2	12,5	12,5	53	31	-	71	-
MAR 2 CM 4	M 8 – M 20	2	12,5	12,5	53	31	-	-	72
MAR 3 CM 4	M14 – M33	3	20	20	78	48	-	-	105



ART	Campo di filettatura Thread Range	Per Bussole Suitable for Bushing	Compensazione assiale Length		DE ∅	D ∅	CM 2 L	CM 3 L	CM 4 L
			Compensation Press. Comp.	Traz. Exp.					
MAR 1 CM 2	M 3 – M 12	1	7,5	7,5	36	19	47	-	-
MAR 1 CM 3	M 3 – M 12	1	7,5	7,5	36	19	-	47	-
MAR 2 CM 3	M 8 – M 20	2	12,5	12,5	53	31	-	71	-
MAR 2 CM 4	M 8 – M 20	2	12,5	12,5	53	31	-	-	72
MAR 3 CM 4	M 14 – M 33	3	20	20	78	48	-	-	105

<b>APPARECCHI A MASCHIARE</b>	Art. MAR .....	Cil ...
<b>TAPPING INSTRUMENTS</b>	Art. MAR .....	Cil ...
<b>EQUIPAMENTO A ROSCAR A MACHO</b>	Art. MAR .....	Cil ...

**MASCHIATORI ATTACCO RAPIDO PER MASCHIARE CON COMPENSAZIONE ASSIALE**  
**QUICK CHANGE TAPPING WITH AXIAL COMPENSATION**  
**ROSCADORES RÁPIDA PARA ROSCAR A MACHO CON COMPENSAZIÓN AXIAL**



ART	Campo di filettatura Thread Range	Per Bussole Suitable for Bushing	Compensazione assiale Length Compensation		De Ø	D Ø	L	L2	L1	d Ø
			Press. Comp.	Traz. Exp.						
MAR 1 C16	M3 – M12	1	7,5	7,5	36	19	80	40	40	16
MAR 1 C20	M3 – M12	1	7,5	7,5	36	19	80	40	40	20
MAR 1 C25	M3 – M12	1	7,5	7,5	36	19	100	40	60	25
MAR 1 C32	M3 – M12	1	7,5	7,5	36	19	100	40	60	32
MAR 2 C25	M8 – M20	2	12,5	12,5	53	31	124	64	60	25
MAR 2 C32	M8 – M20	2	12,5	12,5	53	31	124	64	60	32

**NOTE:**

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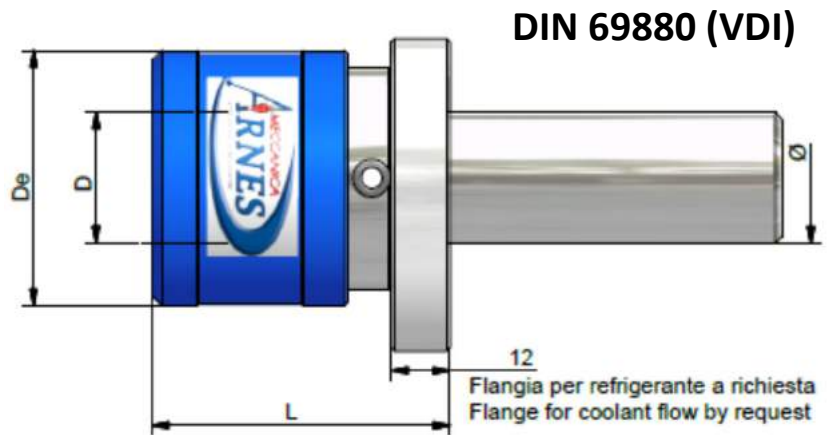
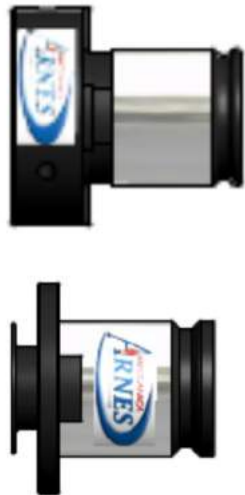


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APPARECCHI A MASCHIARE	Art. MAR ..... V ...
TAPPING INSTRUMENTS	Art. MAR ..... V ...
EQUIPAMENTO A ROSCAR A MACHO	Art. MAR ..... V ...



ART	Campo di filettatura Thread Range	Per Bussole Suitable for Bushing	Compensazione assiale Length Compensation		De ø	D ø	L	ø
			Press. Comp.	Traz. Exp.				
MAR 1 V20	M 3 – M12	1	7,5	7,5	36	19	53	20
MAR 1 V30	M 3 – M12	1	7,5	7,5	36	19	56	30
MAR 1 V40	M 3 – M12	1	7,5	7,5	36	19	56	40
MAR 1 V50	M 3 – M12	1	7,5	7,5	36	19	56	50
MAR 2 V30	M 8 – M20	2	12,5	12,5	53	31	77	30
MAR 2 V40	M 8 – M20	2	12,5	12,5	53	31	77	40
MAR 2 V50	M 8 – M20	2	12,5	12,5	53	31	80	50

**NOTE:**

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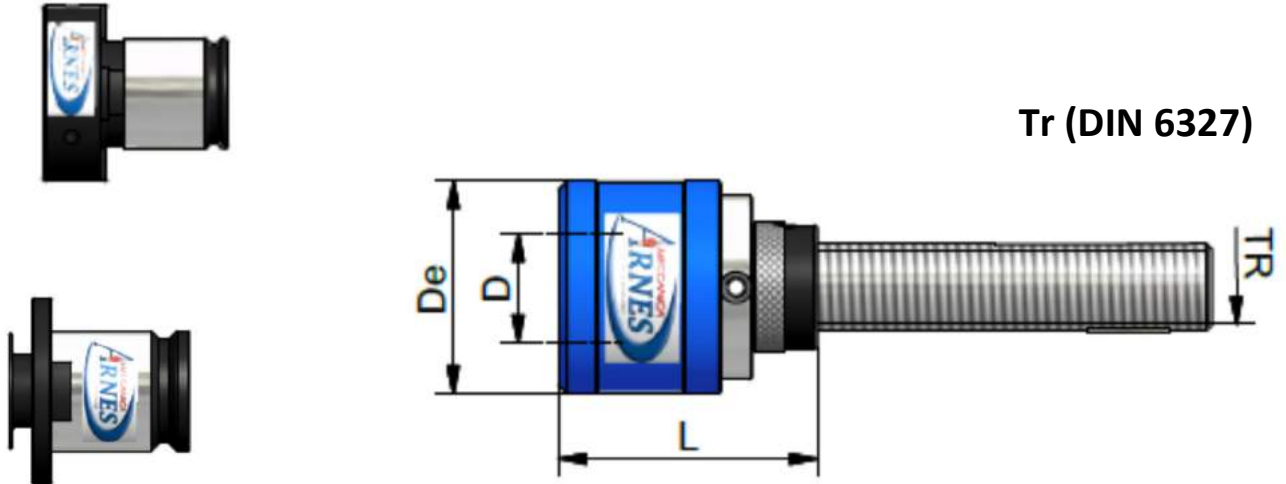
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<b>APPARECCHI A MASCHIARE</b>	Art. MAR ..... Tr ...
<b>TAPPING INSTRUMENTS</b>	Art. MAR ..... Tr ...
<b>EQUIPAMENTO A ROSCAR A MACHO</b>	Art. MAR ..... Tr ...

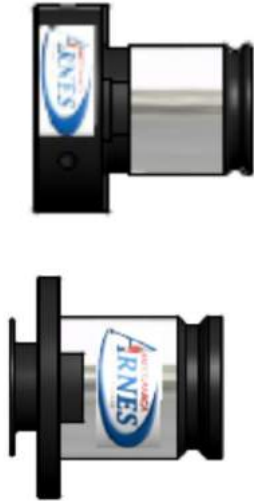
MASCHIATORI ATTACCO RAPIDO PER MASCHIARE CON COMPENSAZIONE ASSIALE  
 QUICK CHANGE TAPPING WITH AXIAL COMPENSATION  
 ROSCADORES RÁPIDA PARA ROSCAR A MACHO CON COMPENSAZIÓN AXIAL



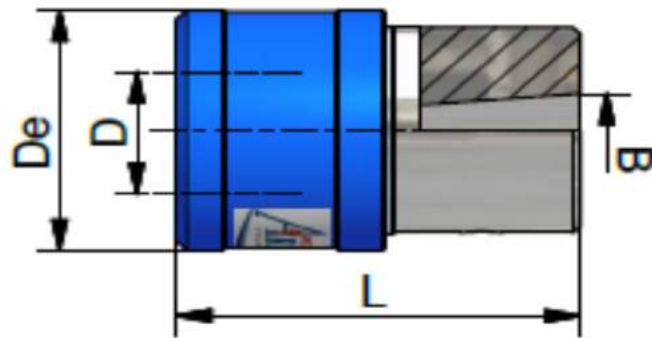
ART	Campo di filettatura Thread Range	Per Bussole Suitable for Bushing	Compensazione assiale Length Compensation		De ∅	D ∅	L	TR
			Press. Comp.	Traz. Exp.				
MAR 0T 16x1,5	M 1 – M10	0	6,5	6,5	26	13	50	16x1,5
MAR 0T 20x2	M 1 – M10	0	6,5	6,5	26	13	50	20x2
MAR 1T 16x1,5	M 3 – M12	1	7,5	7,5	26	19	52	16x1,5
MAR 1T 20x2	M 3 – M12	1	7,5	7,5	26	19	52	20x2
MAR 1T 28x2	M 3 – M12	1	7,5	7,5	26	19	52	28x2
MAR 1T 36x2	M 3 – M12	1	7,5	7,5	26	19	54	36x2
MAR 2T 20x2	M 8 – M20	2	12,5	12,5	53	31	76	20x2
MAR 2T 28x2	M 8 – M20	2	12,5	12,5	53	31	76	28x2
MAR 2T 36x2	M 8 – M20	2	12,5	12,5	53	31	78	36x2

<b>APPARECCHI A MASCHIARE</b>	<b>Art. MAR ..... B ...</b>
<b>TAPPING INSTRUMENTS</b>	<b>Art. MAR ..... B ...</b>
<b>EQUIPAMENTO A ROSCAR A MACHO</b>	<b>Art. MAR ..... B ...</b>

MASCHIATORI ATTACCO RAPIDO  
 QUICK CHANGE TAPPING  
 ROSCADORES RÁPIDA



**DIN 238**



ART	Campo di filettatura	Per Bussole	De ∅	D ∅	L	B
	Thread Range	Suitable for Bushing				
MAR0 B10	M 1 – M 7	1	33	13	55	10
MAR0 B12	M 1 – M 7	1	33	13	55	12
MAR1 B10	M 3 – M 12	1	32	19	56	10
MAR1 B12	M 3 – M 12	1	32	19	56	12
MAR1 B16	M 3 – M 12	1	32	19	65	16
MAR2 B12	M 8 – M 20	2	50	31	76	12
MAR2 B16	M 8 – M 20	2	50	31	86	16
MAR2 B18	M 8 – M 20	2	50	31	90	18

\* Attacchi speciali a richiesta JACOBS, ecc. ...

\* Special mounts by request

\* Apéndice a pedido especial

**NOTE:**

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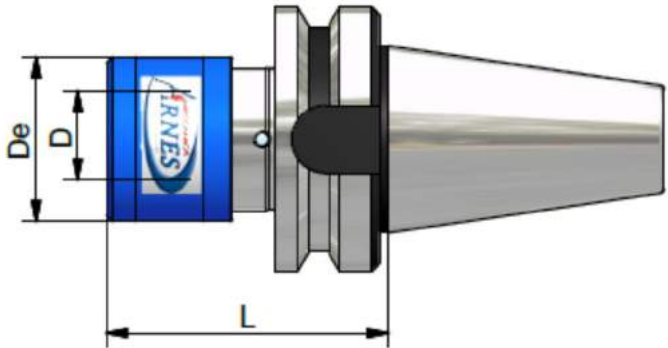
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<b>APPARECCHI A MASCHIARE</b>	<b>Art. MAR .....</b>
<b>TAPPING INSTRUMENTS</b>	<b>Art. MAR .....</b>
<b>EQUIPAMENTO A ROSCAR A MACHO</b>	<b>Art. MAR .....</b>

**MASCHIATORI ATTACCO RAPIDO PER MASCHIARE CON COMPENSAZIONE ASSIALE**  
**QUICK CHANGE TAPPING WITH AXIAL COMPENSATION**  
**ROSCADORES RÁPIDA PARA ROSCAR A MACHO CON COMPENSAZIÓN AXIAL**



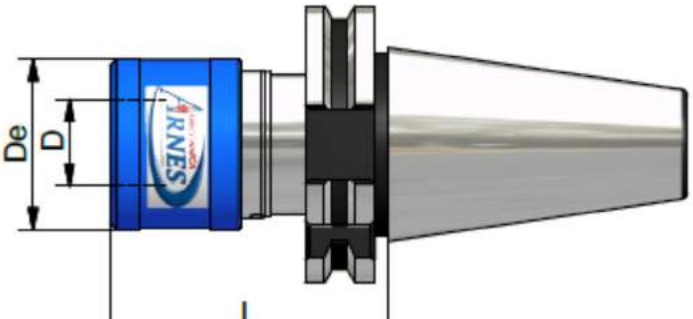
**MAS 403 – BT**



ART	Campo di filettatura Thread Range	Per Bussole Suitable for Bushng	Compensazione assiale Length Compensation		De ∅	D ∅	L
			Press. Comp.	Traz. Exp.			
MAR 1 – MAS 403 BT 30	M 3 – M 12	1	7,5	7,5	36	19	62,5
MAR 1 – MAS 403 BT 40	M 3 – M 12	1	7,5	7,5	36	19	67,5
MAR 2 – MAS 403 BT 40	M 8 – M 20	2	12,5	12,5	53	31	94,5
MAR 2 – MAS 403 BT 50	M 8 – M 20	2	12,5	12,5	53	31	102,5



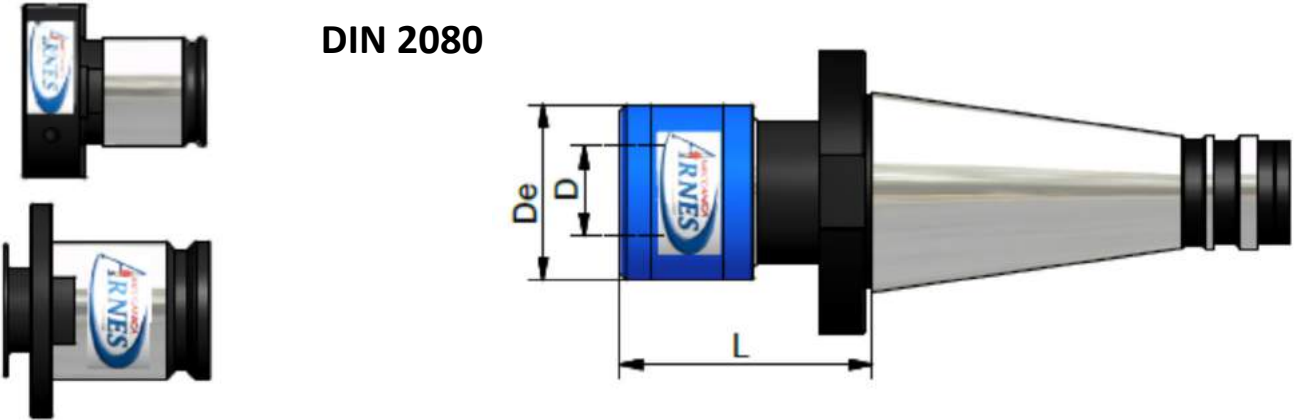
**DIN 69871**



ART	Campo di filettatura Thread Range	Per Bussole Suitable for Bushing	Compensazione assiale Length Compensation		De ∅	D ∅	L
			Press. Comp.	Traz. Exp.			
MAR 1 – DIN 69871 ISO 30	M 3 – M 12	1	7,5	7,5	36	19	64
MAR 1 – DIN 69871 ISO 40	M 3 – M 12	1	7,5	7,5	36	19	60
MAR 1 – DIN 69871 ISO 50	M 3 – M 12	1	7,5	7,5	36	19	60
MAR 2 – DIN 69871 ISO 40	M 8 – M 20	2	12,5	12,5	53	31	98
MAR 2 – DIN 69871 ISO 50	M 8 – M 20	2	12,5	12,5	53	31	84

<b>APPARECCHI A MASCHIARE</b>	<b>Art. MAR .....</b>
<b>TAPPING INSTRUMENTS</b>	<b>Art. MAR .....</b>
<b>EQUIPAMENTO A ROSCAR A MACHO</b>	<b>Art. MAR .....</b>

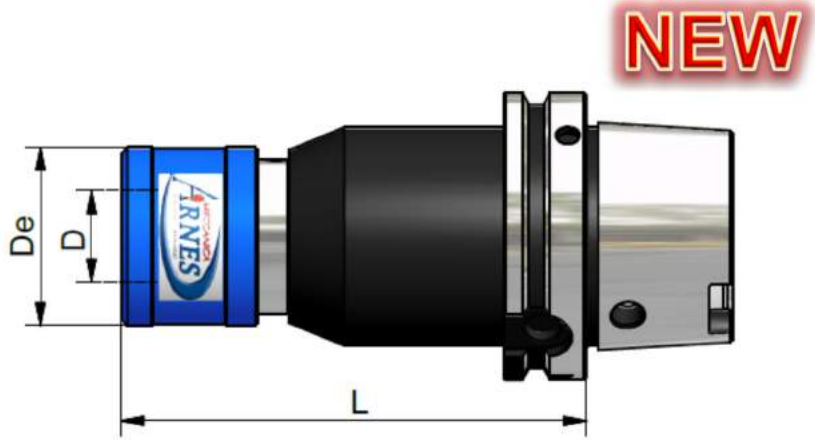
**MASCHIATORI ATTACCO RAPIDO PER MASCHIARE CON COMPENSAZIONE ASSIALE**  
**QUICK CHANGE TAPPING WITH AXIAL COMPENSATION**  
**ROSCADORES RÁPIDA PARA ROSCAR A MACHO CON COMPENSAZIÓN AXIAL**



ART	Campo di filettatura Thread Range	Per Bussole Suitable for Bushing	Compensazione assiale Length Compensation		De ∅	D ∅	L
			Press. Comp.	Traz. Exp.			
MAR 1 – DIN 2080 ISO 30	M 3 – M 12	1	7,5	7,5	36	19	59
MAR 1 – DIN 2080 ISO 40	M 3 – M 12	1	7,5	7,5	36	19	50
MAR 1 – DIN 2080 ISO 50	M 3 – M 12	1	7,5	7,5	36	19	54
MAR 2 – DIN 2080 ISO 40	M 8 – M 20	2	12,5	12,5	53	31	78
MAR 2 – DIN 2080 ISO 50	M 8 – M 20	2	12,5	12,5	53	31	80

APPARECCHI A MASCHIARE	Art. MAR ..... HSK ...
TAPPING INSTRUMENTS	Art. MAR ..... HSK ...
EQUIPAMENTO A ROSCAR A MACHO	Art. MAR ..... HSK ...

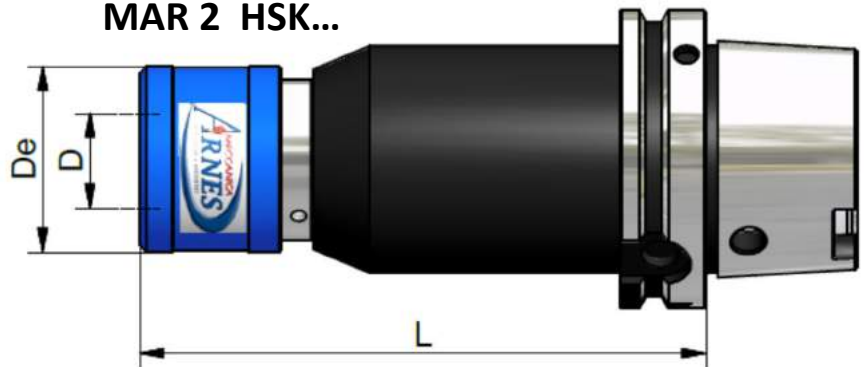
MAR 1 HSK ...



ART	Campo di filettatura Thread Range	Per Bussole Suitable for Bushing	Compensazione assiale Length Compensation		De ∅	D ∅	L
			Press. Comp.	Traz. Exp.			
MAR1HSK...40	M3 - M12	1	7,5	7,5	36	19	120
MAR1HSK...50	M3 - M12	1	7,5	7,5	36	19	120
MAR1HSK...63	M3 - M12	1	7,5	7,5	36	19	120
MAR1HSK...100	M3 - M12	1	7,5	7,5	36	19	120

NEW

MAR 2 HSK...



ART	Campo di filettatura Thread Range	Per Bussole Suitable for Bushing	Compensazione assiale Length Compensation		De ∅	D ∅	L
			Press. Comp.	Traz. Exp.			
MAR2HSK40	M8 - M20	2	12,5	12,5	53	31	170
MAR2HSK50	M8 - M20	2	12,5	12,5	53	31	170
MAR2HSK63	M8 - M20	2	12,5	12,5	53	31	170
MAR2HSK100	M8 - M20	2	12,5	12,5	53	31	170



**DIMENSIONE GAMBI MASCHI DIN**  
**TAP SHANK DIMENSIONS TO DIN**  
**TAMAÑO TALLO MACHO DIN**

Dimensione ∅ x □ Dimension ∅ x □	DIN 352	DIN 353	DIN 371	DIN 374	DIN 376	DIN 2182	DIN 2183
2,5 x 2,1	M 1	-	M 1	-	M 3,5	1/6"	-
	M 1,1	-	M 1,1	M 3,5	-	-	-
	M 1,2	-	M 1,2	-	-	-	-
	M 1,4	-	M 1,4	-	-	-	-
	M 1,6	-	M 1,6	-	-	-	-
	M 1,8	-	M 1,8	-	-	-	-
2,8 x 2,1	M 2	-	M 2	M 4	M 4	3/32"	5/32"
	M 2,2	-	M 2,2	-	-	-	-
	M 2,5	-	M 2,5	-	-	-	-
3,5 x 2,7	M 3	-	M 3	M 5	M 5	1/8"	-
4 x 3	M 3,5	-	M 3,5	-	-	-	-
4,5 x 3,4	M 4	-	M 4	M 6	M 6	5/32"	1/4"
6 x 4,9	M 5	-	M 5	-	-	7/32"	-
	M 6	-	M 6	-	-	-	-
	M 8	-	-	M 8	M 8	-	-
7 x 5,5	M 10	G 1/8"	-	M 10	M 10	1/4"	3/8"
8 x 6,2	-	-	M 8	-	-	5/16"	7/16"
9 x 7	M 12	-	-	M 12	M 12	3/8"	1/2"
10 x 8	-	-	M 10	-	-	-	-
11 x 9	M 14	G 1/4"	-	M 14	M 14	-	9/16"
12 x 9	M 16	G 3/8"	-	M 16	M 16	-	5/8"
14 x 11	M 18	-	-	M 18	M 18	-	11/16"
16 x 12	M 20	G 1/2"	-	M 20	M 20	-	13/16"
18 x 14,5	M 22	G 5/8"	-	M 22	M 22	-	7/8"
	M 24	-	-	M 24	M 24	-	15/16"
20 x 16	M 27	G 3/4"	-	M 27	M 27	-	1"
22 x 18	M 30	G 7/8"	-	M 30	M 30	-	1.1/8"
25 x 20	M 33	G 1"	-	M 33	M 33	-	1.1/4"
28 x 22	M 36	G 1.1/8"	-	M 36	M 36	-	1.3/8"
32 x 24	M 39	G 1.1/4"	-	M 39	M 39	-	1.1/2"
	M 42	-	-	M 42	M 42	-	1.5/8"
36 x 29	M 45	G 1.3/8"	-	M 45	M 45	-	1.3/4"
	M 48	G 1.1/2"	-	M 48	M 48	-	1.7/8"
	-	G 1.3/4"	-	-	-	-	-
	-	G 2"	-	-	-	-	-
40 x 32	M 52	G 2.1/4"	-	M 52	M 52	-	2"
45 x 35	M 56	G 2.1/2"	-	-	M 56	-	2.1/4"
	M 60	-	-	-	M 60	-	-
50 x 39	M 64	G 2.3/4"	-	-	M 64	-	2.1/2"
	-	G 3"	-	-	-	-	-
56 x 44	M 68	G 3.1/4"	-	-	M 68	-	2.3/4"
	-	-	-	-	-	-	3"

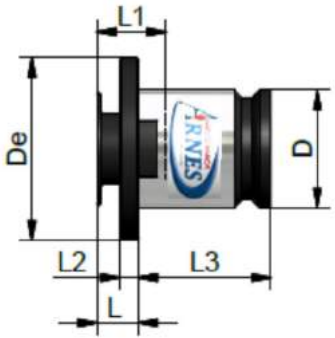
**DIMENSIONE GAMBI MASCHI ISO  
TAP SHANK DIMENSIONS TO ISO  
TAMAÑO TALLO MACHO ISO**

<b>ISO 529 - 1975</b>												
Dim. ∅ x □	M		UNC		UNF		BSW		BSF		BA	
		*		*		*		*		*		*
2,24 x 1,8	M 3	-	Nr. 5-40	-	Nr. 5-44	-	1/8" -40	-	-	-	Nr.5	-
2,5 x 2,0	M 3,5	M 2	Nr. 6-32	Nr. 1-64	Nr. 6-40	Nr. 0-80	-	-	-	-	-	Nr.11
	-	-	-	-	-	Nr. 1-72	-	-	-	-	-	Nr.10
	-	-	-	-	-	-	-	-	-	-	-	Nr.9
2,8 x 2,24	-	M2,2	-	Nr. 2-56	-	Nr. 2-64	-	-	-	-	-	Nr.8
	-	M2,5	-	Nr. 3-48	-	Nr. 3-56	-	-	-	-	-	Nr.7
	-	-	-	-	-	-	-	-	-	-	-	Nr.6
3,15 x 2,5	M 4	M 3	-	Nr. 4-40	-	Nr. 4-48	-	-	-	-	-	Nr.5
	-	-	Nr. 8-32	Nr. 5-40	Nr. 8-36	Nr. 5-44	-	-	-	-	Nr.3	-
3,55 x 2,8	M 4,5	M3,5	Nr. 10-24	Nr. 6-32	Nr. 10-32	Nr. 6-40	3/16"-24	-	3/16"-32	-	Nr.2	Nr.4
4 x 3,15	M 5	M 4	Nr. 12-24	-	Nr. 12-28	-	-	-	7/32"-28	-	Nr.1	-
4,5 x 3,55	M 6	-	1/4" - 20	Nr. 8-32	1/4" -28	Nr. 3-36	1/4" - 20	-	1/4" - 26	-	Nr.0	Nr.3
5 x 4	-	M 5	-	Nr. 10-24	-	Nr.10-32	-	3/16"-24	-	3/16"-32	-	Nr.2
5,6 x 4,5	-	-	-	Nr. 12-24	-	Nr.12-28	-	-	9/32"-36	7/32"-28	-	Nr.1
6,3 x 5	M 8	M 6	5/16"-18	1/4" -20	5/16" 24	1/4" -28	5/16"-18	1/4"-20	5/16"-22	1/4"-26	-	Nr.0
7,1 x 5,6	-	-	3/8" - 16	-	3/8" -24	-	3/8" -16	-	3/8" - 20	9/32"-36	-	-
8 x 6,3	M 10	M 8	7/16" -14	5/16"-18	7/16"- 20	-	7/16"-14	5/16"18	7/16" -18	5/16 -22	-	-
9 x 7,1	M 12	-	1/2" - 13	-	1/2" -20	-	1/2" -12	-	1/2" - 12	-	-	-
10 x 8	-	M 10	-	3/8" -16	-	3/8" -24	-	3/8"- 16	-	3/8"-20	-	-
11,2 x 9	M 14	-	9/16"-12	-	9/16"- 18	-	9/16"-12	-	9/16" -16	-	-	-
12,5 x 10	M 16	-	5/8" - 11	-	5/8" -18	-	5/8"- 11	-	3/8" - 14	-	-	-
14 x 11,2	M 18	-	3/4" - 10	-	3/4" -16	-	11/16"-11	-	11/16"-14	-	-	-
	M 20	-	-	-	-	-	3/4" -10	-	3/4" - 12	-	-	-
16 x 12,5	M 22	-	7/8" - 9	-	7/8" -14	-	7/8" - 9	-	7/8" - 11	-	-	-
18 x 14	M 24	-	1" - 8	-	1" - 12	-	1" - 8	-	1" - 10	-	-	-
20 x 16	M 27	-	1.1/8" - 7	-	1.1/8"-12	-	1.1/8" - 7	-	1.1/8" -9	-	-	-
	M 30	-	-	-	-	-	-	-	-	-	-	-
22,4 x 18	M 33	-	1.1/4" - 7	-	1.1/4"-12	-	1.1/4" -7	-	1.1/4" -9	-	-	-
25 x 20	M 36	-	1.3/8" - 6	-	1.3/8"-12	-	-	-	1.3/8" - 8	-	-	-
28 x 22,4	M 39	-	1.1/2" - 6	-	1.1/2"-12	-	1.1/2"-6	-	1.1/2" - 8	-	-	-
	M 42	-	-	-	-	-	-	-	1.5/8" - 8	-	-	-
31,5 x 25	M 45	-	1.3/4" - 5	-	-	-	1.3/4"-5	-	1.3/4" -7	-	-	-
	M 48	-	-	-	-	-	-	-	-	-	-	-
35,5 x 28	M 52	-	2" - 4.1/2	-	-	-	2"-4.1/2	-	2" - 7	-	-	-
	M 56	-	-	-	-	-	-	-	-	-	-	-
40 x 31,5	M 60	-	2.1/4"- 4.1/2	-	-	-	2.1/4"-4	-	2.1/4" -6	-	-	-
	M 64	-	2.1/2" - 4	-	-	-	2.1/2"-4	-	2.1/2" - 6	-	-	-
45 x 35,5	M 68	-	2.3/4" - 4	-	-	-	2.3/4"- 3.1/2	-	2.3/4" - 6	-	-	-
50 x 40	-	-	3" - 4	-	-	-	3"-3.1/2	-	3" - 5	-	-	-
	-	-	3.1/4" - 4	-	-	-	3.1/4"- 3.1/4	-	3.1/4" - 5	-	-	-
	-	-	3.1/2" - 4	-	-	-	3.1/4"- 3.1/4	-	3.1/2" - 4	-	-	-
56 x 45	-	-	3.3/4" - 4	-	-	-	3.3/4"-3	-	3.3/4" - 4.1/2	-	-	-
	-	-	4" - 4	-	-	-	4" - 3	-	4" -4.1/2	-	-	-

<b>APPARECCHI A MASCHIARE</b>	<b>Art.</b>	<b>BCR .....</b>	<b>BCRF .....</b>
<b>TAPPING INSTRUMENTS</b>	<b>Art.</b>	<b>BCR .....</b>	<b>BCRF .....</b>
<b>EQUIPAMENTO A ROSCAR A MACHO</b>	<b>Art.</b>	<b>BCR .....</b>	<b>BCRF .....</b>

# ART. BCR ...

**BUSSOLE A CAMBIO RAPIDO**  
**QUICK CHANGE BUSHINGS**  
**BUJE DE CAMBIO RÁPIDO**

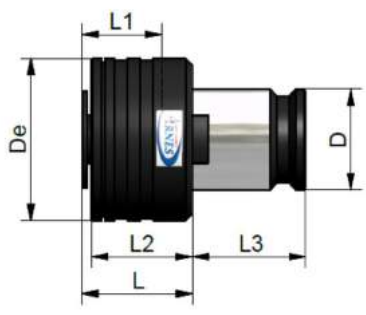


ART	Campo di filettatura Thread Range	Diametro del gambo maschio Shank dia. (d)	Per mandrini grandezza Suitable for chucks size	De ø	D ø	L1	L2	L3	L
BCR 0	M 1 – M 10	2,5 – 8	0	22	13	15	4	19,5	7
* BCR 1	M 3 – M 12	3,5 – 11,3	1	30	19	17	4	21,5	7
* BCR 2	M 8 – M 20	7 – 18	2	48	31	30	5	35	11
* BCR 3	M 14 – M 33	11 - 28	3	70	48	44	6	55,5	14

\* Adatta anche per passaggio centrale del refrigerante  
 \* Also suitable for coolant flow

# ART. BCRF ...

**BUSSOLE A CAMBIO RAPIDO CON FRIZIONE DI SICUREZZA**  
**QUICK CHANGE BUSHINGS WITH SAFETY CLUTCH**  
**BUJE DE CAMBIO RÁPIDO CON LA EMBRAGUE DE SEGURIDAD**



ART	Campo di filettatura Thread Range	Diametro del gambo maschio Shank dia. (d)	Per mandrini grandezza Suitable for chucks size	De ø	D ø	L1	L2	L3	L
BCR F0	M 1 – M 10	2,5 – 8	0	23	13	15	20	19,5	21
* BCR F1	M 3 – M 12	3,5 – 11,3	1	32	19	17	25	21,5	25
* BCR F2	M 8 – M 20	7 – 18	2	50	31	30	31	35	34
* BCR F3	M 14 – M 33	11 - 28	3	72	48	44	41	55,5	45

\* Adatta anche per passaggio centrale del refrigerante  
 \* Also suitable for coolant flow

**APPARECCHI A MASCHIARE**

**Art. BFCR .....**

**TAPPING INSTRUMENTS**

**Art. BFCR .....**

**EQUIPAMENTO A ROSCAR A MACHO**

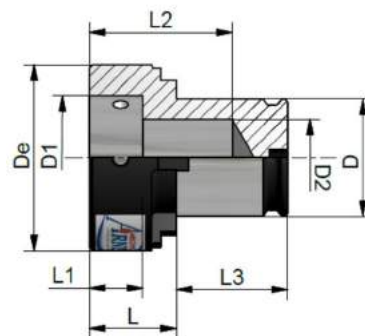
**Art. BFCR .....**

## ART. BFCR ...

**BUSSOLE A CAMBIO RAPIDO PER FILIERE**

**QUICK CHANGE ADAPTORS FOR DIES**

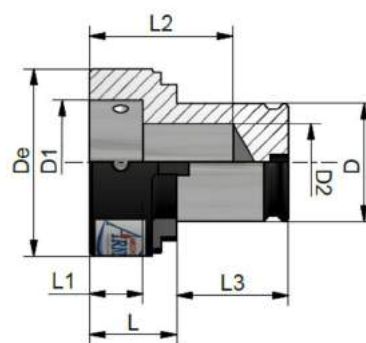
**BUJE DE CAMBIO RÁPIDO PARA TERRAJA**



ART	Metrica Metric	Filettatura Thread Metrica fine Fine Metric	Whitworth	Whitworth G ...	Per mandrini grandezza Suitable for chucks size	De Ø	D1 Ø	D Ø	D2 Ø	L1	L2	L3	L
BFCR 1 FIL 16x5	M1- M2,6	M1-M2,6	-	-	1	25	16	19	12,5	4,8	28	21,5	14
BFCR 1 FIL 20x5	M3-M4	M3-M6	-	-	1	30	20	19	12,5	4,8	28	21,5	14
BFCR 1 FIL 20x7	M5+M6	-	1/4"	-	1	30	20	19	12,5	6,5	30	21,5	16
BFCR 1 FIL 25x9	M7-M9	M7-M9	5/16"	-	1	35	25	19	12,5	8,5	33	21,5	19
BFCR 1 FIL 30x11	M10+M1 1	M10+M11	3/8"+7/ 16"	-	1	40	30	19	12,5	10	35	21,5	21
BFCR 1 FIL 38x10	-	M12-M15	-	G1/8"+G1 /4"	1	48	38	19	14,2	9	34	21,5	20
BFCR 1 FIL 38x14	M12+M1 4	-	1/2"	-	1	48	38	19	14,2	13	38	21,5	24
BFCR 2 FIL 20x5	M3-M4	M3-M6	-	-	2	30	20	31	22	4,8	55	35	20
BFCR 2 FIL 20x7	M5+M6	-	1/4"	-	2	30	20	31	22	6,5	56	35	21,5
BFCR 2 FIL 25x9	M7-M9	M7-M9	5/16"	-	2	35	25	31	22	8,5	55	35	23,5
BFCR 2 FIL 30x11	M10+M1 1	M10+M11	3/8"+7/ 16"	-	2	40	30	31	22	10	57	35	22
BFCR 2 FIL 38x10	-	M12-M15	-	G1/8"+G1 /4"	2	48	38	31	22	9	56	35	21
BFCR 2 FIL 38x14	M12+M1 4	-	1/2"	-	2	48	38	31	22	13	60	35	25
BFCR 2 FIL 45x14	-	M16-M20	-	G3/8"+G1 /2"	2	57	45	31	22	13	60	35	25
BFCR 2 FIL 45x18	M16- M20	-	5/8"+3/ 4"	-	2	57	45	31	22	17	64	35	29

# ART. BFCR ...

**BUSSOLE A CAMBIO RAPIDO PER FILIERE**  
**QUICK CHANGE BUSHINGS FOR DIES**  
**BUJE DE CAMBIO RÁPIDO PARA TERRAJA**

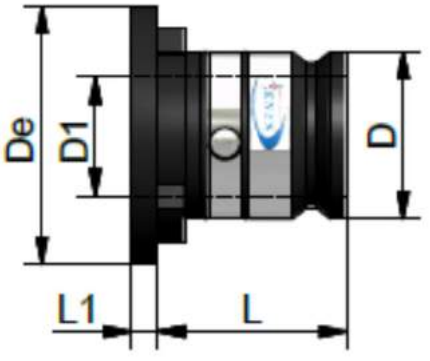


ART	Campo di filettatura Thread Range	Diametro del gambo maschio Shank dia. (d)	Per mandrini grandezza Suitable for chucks size	De Ø	D Ø	L1	L2	L3	L				
BFCR 3 FIL 30x11	M10+M11	M10+M11 1	3/8"+7/16"	-	3	60	30	48	25	10	85	55,5	30
BFCR 3 FIL 38x10	-	M12-M15	-	G1/8"+G1/4"	3	60	38	48	32	9	83	55,5	28
BFCR 3 FIL 38x14	M12+M14	-	1/2"	-	3	60	38	48	32	13	87	55,5	32
BFCR 3 FIL 45x14	-	M16-M20	-	G3/8"+G1/2"	3	60	45	48	37	13	87	55,5	32
BFCR 3 FIL 45x18	M18+M20	-	5/8"+3/4"	-	3	60	45	48	37	17	91	55,5	36
BFCR 3 FIL 55x16	-	M21-M26	-	G5/8"	3	72	55	48	37	15	85	55,5	30
BFCR 3 FIL 55x22	M22+M24	-	7/8"+1"	-	3	72	55	48	37	20	90	55,5	35
BFCR 3 FIL 65x18	-	M27-M36	-	G3/4"+G1	3	82	65	48	37	17	87	55,5	32
BFCR 3 FIL 65x25	M27-M36	-	1.1/8"+ 1.3/8"	-	3	82	65	48	37	23	93	55,5	38

APPARECCHI A MASCHIARE	Art.	BRC .....
TAPPING INSTRUMENTS	Art.	BRC .....
EQUIPAMENTO A ROSCAR A MACHO	Art.	BRC .....

# ART. BRC ...

BUSOLE RIDUZIONE A CAMBIO RAPIDO  
 REDUCTION FROM BUSHING TO BUSHING  
 BUJE DE CAMBIO RÁPIDO PARA TERRAJA

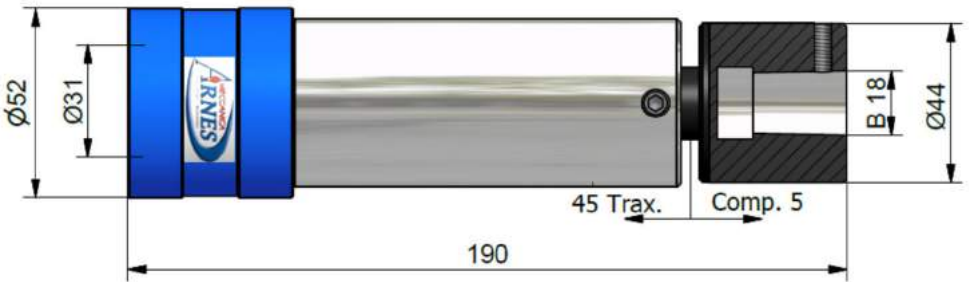


ART	D Ø	D1 Ø	De Ø	L	L1
BRC 2/1	31	19	48	35	5
BRC 3/2	48	31	70	55,5	6

APPARECCHI A MASCHIARE	Art.	TPO .....
TAPPING INSTRUMENTS	Art.	TPO .....
PORTA MACHO E TERRAJA PARA TORNO	Art.	TPO .....

PORTA MASCHI E FILIERE PER TORNIO PARALLELO  
 TAPPING MACHIN FOR PARALLEL LATHE

# ART. TPO B18

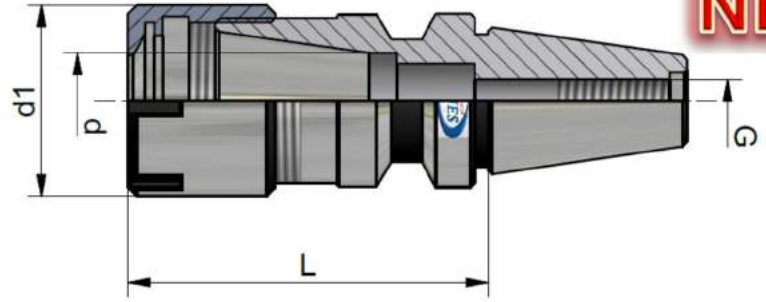


ART	Campo filettatura Thread Range	Per bussole For Bushing	Compensazione assiale Length compensation	
			Traz. Exp.	Comp. Press.
TPO 320 B18	M 3 – M 20	2 (2/1)	45	5

**ART. ISO 15**



**ISO 15**

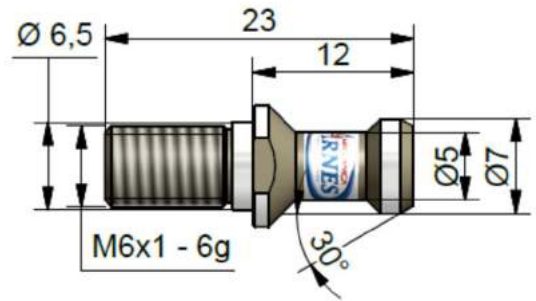


**NEW**

ART	K	d	d <sub>1</sub>	L	Pinze Collets	G
ISO15P0/1511	ISO 15	1 -7	16	40	ER 11	M 6
ISO15P0/1516		1 -10	22	40	ER 16	



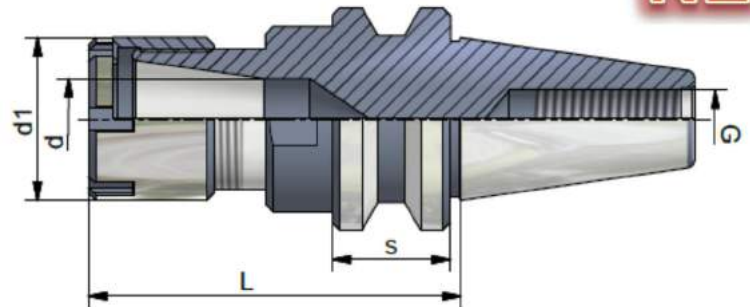
**CODOLO ISO 15**



**ART. ISO 20**



**ISO 20**

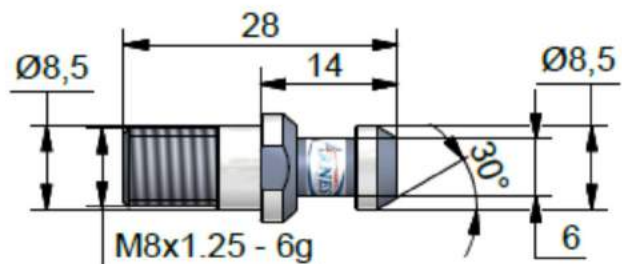


**NEW**

ART	K	d	d <sub>1</sub>	L	S	Pinze Collets	G
ISO20P0/2016	ISO 20	1 -10	16	50	15,9	ER 16	M 8
ISO20P0/2020		1 -13	22	55	15,9	ER 20	

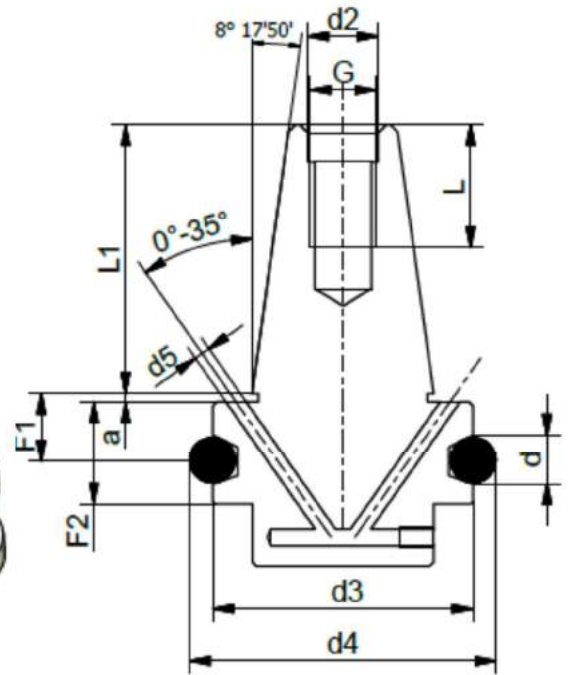
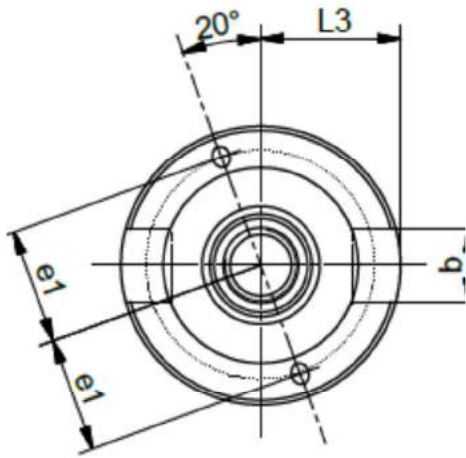


**CODOLO ISO 20**



# MAS 403 BT

CARATTERISTICHE TECNICHE DEL CONO MAS – BT 403  
 MAS – BT 403 CONE TECHNICAL CHARACTERISTIC  
 CARACTERÍSTICAS TÉCNICAS DEL CONO MAS – BT 403



Bilanciatura:  
 G: 6,3; 12.000 rpm

\* fornibile a richiesta \* by request \* disponible bajo pedido

ART	ISO 30	ISO 35	ISO 40	ISO 45	ISO 50
a mm	2	2	2	3	3
b H 12 mm	16,1	14,1	16,1	19,3	25,7
G	M 12	M 12	M 16	M 20	M 24
d mm	8	10	10	12	15
d1 mm	31,75	38,1	44,45	57,15	69,85
d2 H 8 mm	12,5	13	17	21	25
d3 mm	46	53	63	85	100
d4 H 8 mm	56,144	65,680	75,679	100,216	119,020
e1 ± 0,1	-	-	27	-	42
F1 mm	13,6	13,0	16,6	21,2	23,2
F2 mm	20	20	25	30	35
L1 ± 0,2 mm	48,4	56,5	65,4	82,2	101,8
L2 MIN mm	24	24	30	38	45
L3 – 0,2 mm	16,3	19,3	22,6	29,1	35,4
Toll. del cono AT-3 mm	0,002	0,003	0,003	0,003	0,004

## NOTE:

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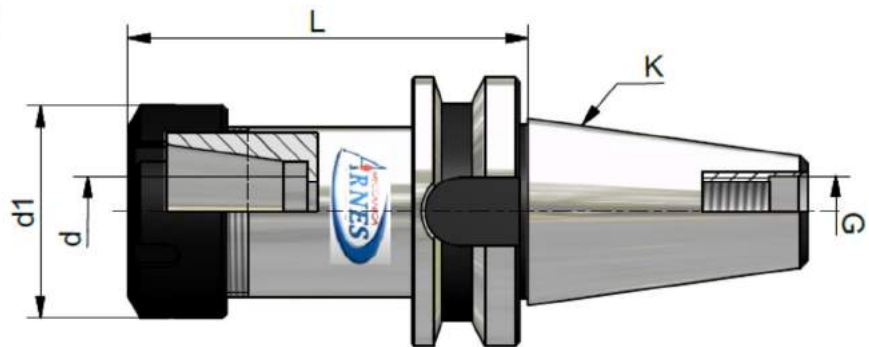
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**MANDRINI PORTA PINZE ER MAS BT CON GIERA DI SERRAGGIO**  
**ER MAS BT PINCERS HOLDER CHUCKS WITH LOCKING COLAR**  
**MANDRIL PORTAPINZAS MAS – BT PARA PINZAS ER**



ART	K	d	d1	L	Pinze Collets	G
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403 P0/3016	ISO 30	1 – 10	32	60	ER 16	M 12
403 P0/3020		1 - 13	35	60	ER 20	
403 P0/3025		2 - 16	42	60	ER 25	
403 P0/3032		2 - 20	50	60	ER 32	

403 P0/4016	ISO 40	1 - 10	32	70	ER 16	M 16
403 P0/4020		1 – 13	35	70	ER 20	
403 P0/4025		2 – 16	42	70	ER 25	
403 P0/4032		2 – 20	50	70	ER 32	
403 P0/4040		3 – 30	63	70	ER 40	

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE:

403 P1/40...	(L=100)
403 P2/40...	(L=130)
403 P3/40...	(L=160)
403 P4/40...	(L=200)

403 P0/5016	ISO 50	1 – 10	32	80	ER 16	M 24
403 P0/5020		1 – 13	35	80	ER 20	
403 P0/5025		2 - 16	42	80	ER 25	
403 P0/5032		2 – 20	50	80	ER 32	
403 P0/5040		3 – 30	63	80	ER 40	
403 P0/5050		12 – 34	78	100	ER 50	

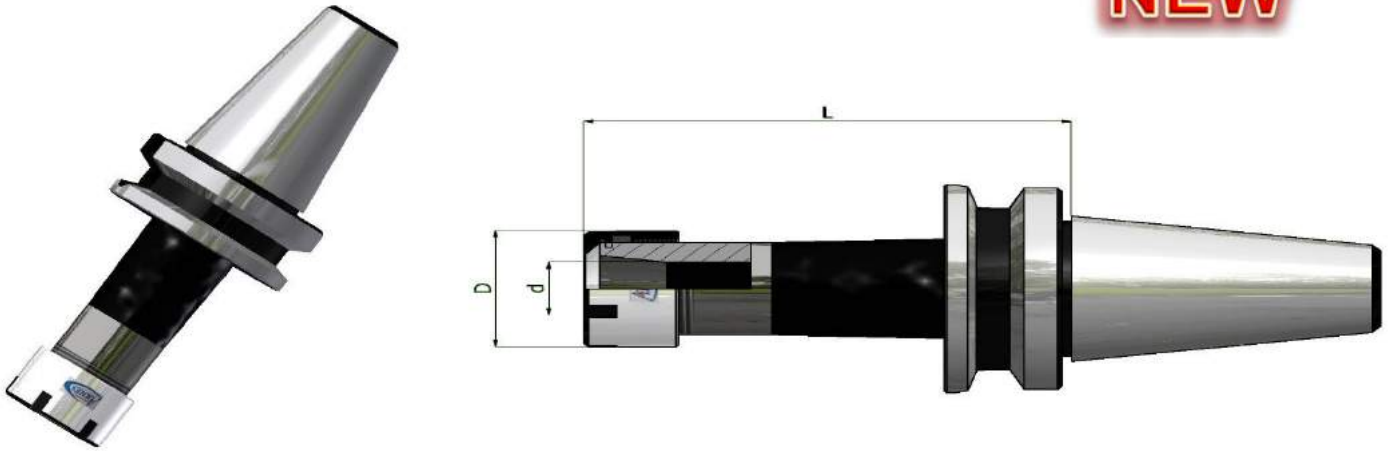
SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE:

403 P1/50...	(L=100)
403 P2/50...	(L=130)
403 P3/50...	(L=160)
403 P4/50...	(L=200)

I CONI ISO 45 SONO FORNIBILI SU RICHIESTA

MANDRINI PORTA PINZE ER MAS BT MINI CON GIERA DI SERRAGGIO  
 MINI ER MAS BT PINCERS HOLDER CHUCKS WITH LOCKING COLAR  
 MANDRIL PORTAPINZAS MAS – BT PARA PINZAS ER MINI

**NEW**



ART	K	d	d <sub>1</sub>	L	Pinze Collets	G
403P0/4011M	ISO 40	16	20	70	ER 11	M 16
403P0/4016M		22	26	70	ER 16	

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE:

403 P1/40...	(L=130)
403 P2/40...	(L=160)
403 P3/40...	(L=200)

403P0/5016M	ISO 50	22	28	100	ER 16	M 24
403P0/5020M		28	32	100	ER 20	
403P0/5025M		35	35	100	ER 25	

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE:

403 P1/50...	(L=130)
403 P2/50...	(L=160)
403 P3/50...	(L=200)

**NOTE:**

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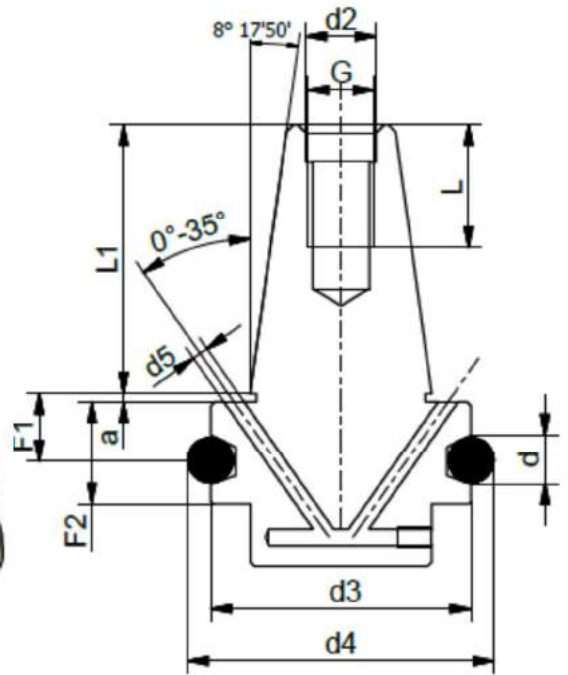
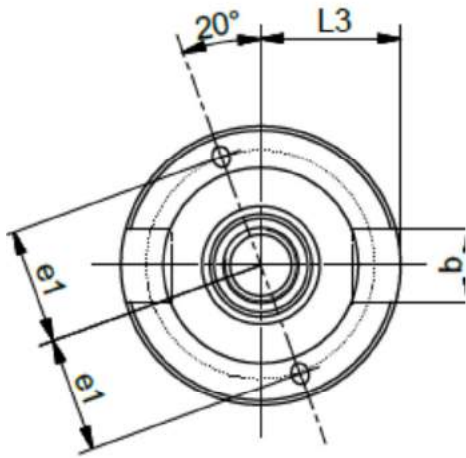
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# MAS 403 BT

CARATTERISTICHE TECNICHE DEL CONO MAS – BT 403  
 MAS – BT 403 CONE TECHNICAL CHARACTERISTIC  
 CARACTERÍSTICAS TÉCNICAS DEL CONO MAS – BT 403



Bilanciatura:  
 G: 6,3; 12.000 rpm

\* fornibile a richiesta \* by request \* disponible bajo pedido

ART	ISO 30	ISO 35	ISO 40	ISO 45	ISO 50
a mm	2	2	2	3	3
b H 12 mm	16,1	14,1	16,1	19,3	25,7
G	M 12	M 12	M 16	M 20	M 24
d mm	8	10	10	12	15
d1 mm	31,75	38,1	44,45	57,15	69,85
d2 H 8 mm	12,5	13	17	21	25
d3 mm	46	53	63	85	100
d4 H 8 mm	56,144	65,680	75,679	100,216	119,020
e1 ± 0,1	-	-	27	-	42
F1 mm	13,6	13,0	16,6	21,2	23,2
F2 mm	20	20	25	30	35
L1 ± 0,2 mm	48,4	56,5	65,4	82,2	101,8
L2 MIN mm	24	24	30	38	45
L3 – 0,2 mm	16,3	19,3	22,6	29,1	35,4
Toll. del cono AT-3 mm	0,002	0,003	0,003	0,003	0,004

## NOTE:

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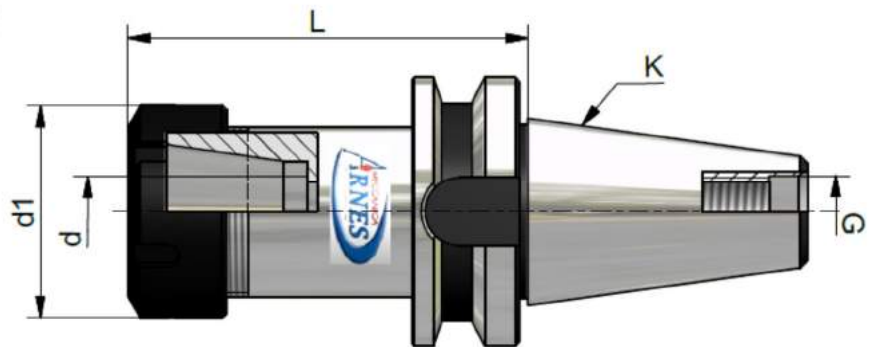


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**MANDRINI PORTA PINZE ER MAS BT CON GIERA DI SERRAGGIO**  
**ER MAS BT PINCERS HOLDER CHUCKS WITH LOCKING COLAR**  
**MANDRIL PORTAPINZAS MAS – BT PARA PINZAS ER**



ART	K	d	d <sub>1</sub>	L	Pinze Collets	G
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403 P0/3016	ISO 30	1 - 10	32	60	ER 16	M 12
403 P0/3020		1 - 13	35	60	ER 20	
403 P0/3025		2 - 16	42	60	ER 25	
403 P0/3032		2 - 20	50	60	ER 32	

403 P0/4016	ISO 40	1 - 10	32	70	ER 16	M 16
403 P0/4020		1 - 13	35	70	ER 20	
403 P0/4025		2 - 16	42	70	ER 25	
403 P0/4032		2 - 20	50	70	ER 32	
403 P0/4040		3 - 30	63	70	ER 40	

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE:

403 P1/40...	(L=100)
403 P2/40...	(L=130)
403 P3/40...	(L=160)
403 P4/40...	(L=200)

403 P0/5016	ISO 50	1 - 10	32	80	ER 16	M 24
403 P0/5020		1 - 13	35	80	ER 20	
403 P0/5025		2 - 16	42	80	ER 25	
403 P0/5032		2 - 20	50	80	ER 32	
403 P0/5040		3 - 30	63	80	ER 40	
403 P0/5050		12 - 34	78	100	ER 50	

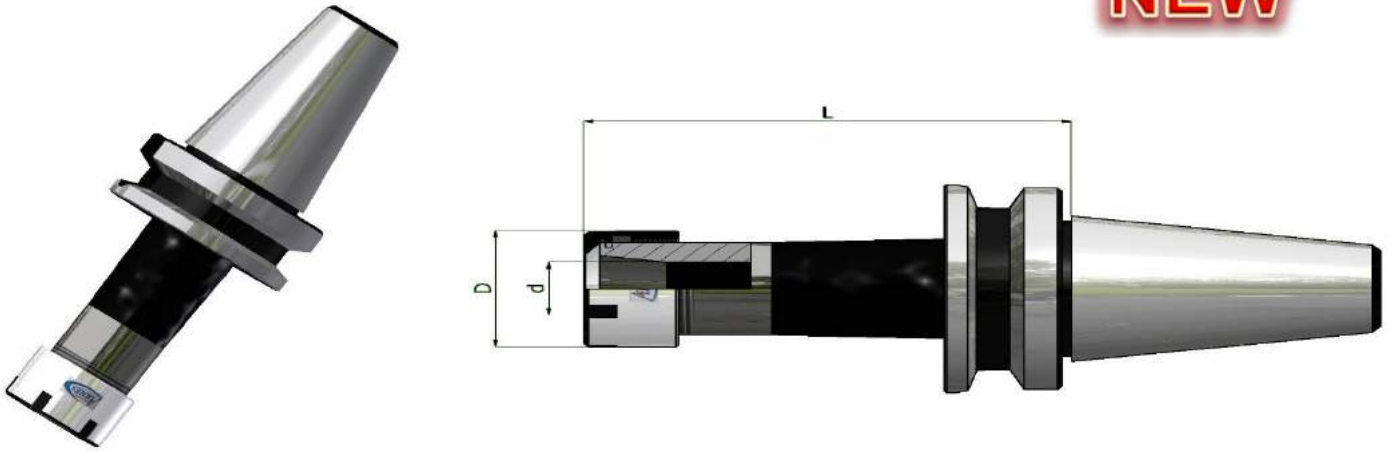
SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE:

403 P1/50...	(L=100)
403 P2/50...	(L=130)
403 P3/50...	(L=160)
403 P4/50...	(L=200)

I CONI ISO 45 SONO FORNIBILI SU RICHIESTA

**MANDRINI PORTA PINZE ER MAS BT MINI CON GIERA DI SERRAGGIO  
 MINI ER MAS BT PINCERS HOLDER CHUCKS WITH LOCKING COLAR  
 MANDRIL PORTAPINZAS MAS – BT PARA PINZAS ER MINI**

**NEW**



ART	K	d	d <sub>1</sub>	L	Pinze Collets	G
403P0/4011M	ISO 40	16	20	70	ER 11	M 16
403P0/4016M		22	26	70	ER 16	

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE:

403 P1/40...	(L=130)
403 P2/40...	(L=160)
403 P3/40...	(L=200)

403P0/5016M	ISO 50	22	28	100	ER 16	M 24
403P0/5020M		28	32	100	ER 20	
403P0/5025M		35	35	100	ER 25	

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE:

403 P1/50...	(L=130)
403 P2/50...	(L=160)
403 P3/50...	(L=200)

**NOTE:**

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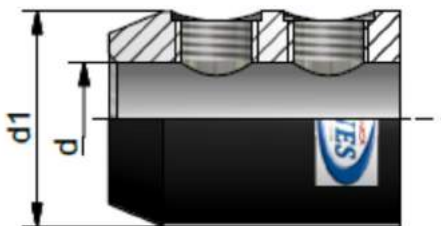


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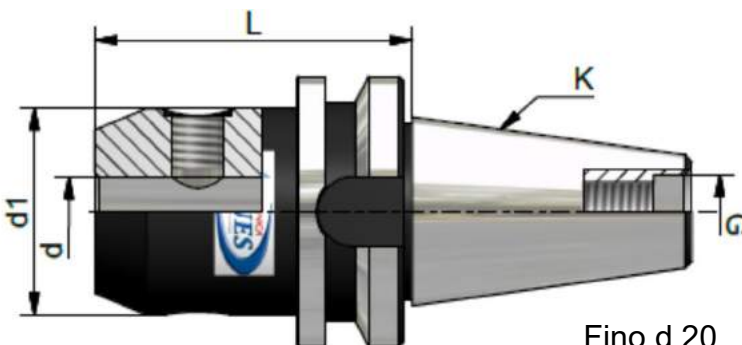


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**MANDRINI PORTA FRESE TIPO WELDON  
MILLING CUTTERS HOLDER CHUCKS WELDON MODEL  
MANDRIL PORTAFRESAS WELDON**



Da d 25  
From d 25



Fino d 20  
To d 20

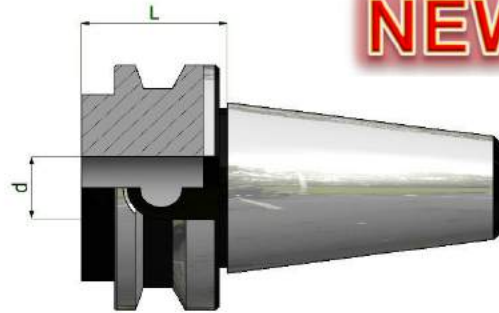
ART	K	d	d <sub>1</sub>	L	G
403 W0/3006	ISO 30	6	25	50	M 12
403 W0/3008		8	28	50	
403 W0/3010		10	35	50	
403 W0/3012		12	42	55	
403 W0/3016		16	48	63	
403 W0/3020		20	52	70	
403 W0/4006	ISO 40	6	25	50	M 16
403 W0/4008		8	28	50	
403 W0/4010		10	35	63	
403 W0/4012		12	42	63	
403 W0/4016		16	48	63	
403 W0/4025		25	65	90	
403 W0/4032		32	65	100	
403 W0/4040		40	80	105	
403 W0/5006	ISO 50	6	25	63	M 24
403 W0/5008		8	28	63	
403 W0/5010		10	35	63	
403 W0/5012		12	42	80	
403 W0/5016		16	48	80	
403 W0/5020		20	52	80	
403 W0/5025		25	65	44	
403 W0/5032		32	72	44	
403 W0/5040		40	80	120	

I CONI ISO 45 SONO FORNIBILI SU RICHIESTA

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE:

403 W1/40... (L=100)  
403 W2/40... (L=130)  
403 W3/40... (L=160)  
403 W4/40... (L=200)

MANDRINI PORTA FRESE TIPO WELDON EXTRACORTI  
 MILLING CUTTERS HOLDER CHUCKS SHORT WELDON MODEL  
 MANDRIL PORTAFRESAS WELDON BREVE



ART	K	d	d <sub>1</sub>	L	G
403 WC/4016	ISO 40	16	44	35	M 16
403 WC/4020		20	44	35	
403 WC/4025		25	50	35	
403 WC/4032		32	72	70	
403 WC/5016	ISO 50	16	70	44	M 24
403 WC/5020		20	70	44	
403 WC/5025		25	70	44	
403 WC/5032		32	80	44	
403 WC/5040		40	80	44	

**NOTE:**

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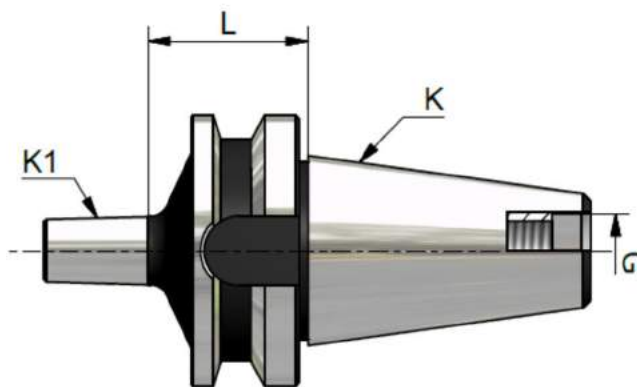


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## MAS 403 BT

403 B ...

ATTACCHI PER MANDRINI PORTA PUNTE  
DRILL HOLDER CHUCKS CONNECTIONS  
ADAPTADORES PORTABROCAS



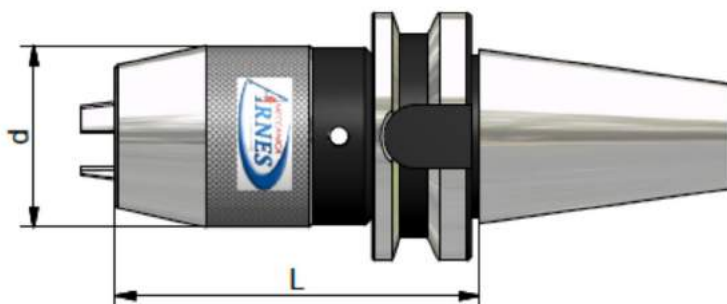
ART	K	K1	L	G
403 B0/3012	ISO 30	B 12	30	M 12
403 B0/3016		B 16	30	
403 B0/4012	ISO 40	B 12	45	M 16
403 B0/4016		B 16	45	
403 B0/4018		B 18	45	
403 B0/5012	ISO 50	B 12	45	M 24
403 B0/5016		B 16	45	
403 B0/5018		B 18	45	

I CONI ISO 45 SONO FORNIBILI SU RICHIESTA

## MAS 403 BT

403 PP ...

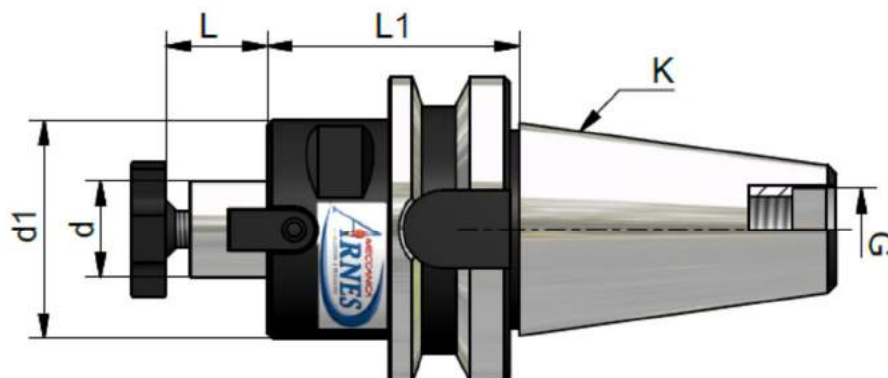
MANDRINI PORTA PUNTE INTEGRALE  
MONOLITHIC DRILL CHUCKS  
PORTABROCAS INTEGRALES CNC



ART	L	Cap. Ø	d
403 PP 0 4013	95	0 ÷ 13	51
403 PP 0 4016	120	13 ÷ 16	58
403 PP 0 5013	110	0 ÷ 13	51
403 PP 0 5016	110	3 ÷ 16	58



MANDRINI PORTA FRESE TRASCINAMENTO FISSO  
 MILLING CUTTERS CHUCKS WITH FIXED DRAGGING  
 MANDRIL PORTAFRESAS FIJO



ART	K	d	d <sub>1</sub>	L	L <sub>1</sub>	G
-----	---	---	----------------	---	----------------	---

403 F0/3016	ISO 30	16	32	17	40	M 12
403 F0/3022		22	40	19	40	
403 F0/3027		27	48	21	40	

403 F0/4016	ISO 40	16	32	17	45	M 16
403 F0/4022		22	40	19	45	
403 F0/4027		27	48	21	45	
403 F0/4032		32	58	24	50	
403 F0/4040		40	70	27	55	

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE:

403 F1/40...	(L=100)
403 F2/40...	(L=130)
403 F3/40...	(L=160)
403 F4/40...	(L=200)

403 F0/5022	ISO 50	22	40	19	60	M 24
403 F0/5027		27	48	21	60	
403 F0/5032		32	58	24	60	
403 F0/5040		40	70	27	60	

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE:

403 F1/50...	(L=100)
403 F2/50...	(L=130)
403 F3/50...	(L=160)
403 F4/50...	(L=200)

**A RICHIESTA MANDRINO PORTA FRESE COMBINATO ISO 40 E ISO 50 (ART. 403 F...C)**

DISPONIBILE NELLE SEGUENTI LUNGHEZZE:

- F0...C : L=55 (esempio: **403F0/4022C**, mandrino portafrese combinato diam. 22, BT 40, L. 55)
- F1...C : L=100
- F2...C : L=130
- F3...C : L=160
- F4...C : L=200

**MANDRINI PORTA FRESE PER FRESE AD INSERTI  
MILLING CUTTERS CHUCKS FOR MILLING CUTTERS WITH INSERT  
MANDRIL PORTAFRESAS PARA FRESA AD INSERTO**



ART	K	d	d1	d2	G1	L1	L	G
40310/4040	ISO 40	40	88	66,7	M 12	60	30	M 16
40310/5040	ISO 50	40	88	66,7	M 12	70	30	M 24
40310/5060		60	128	101,6	M 16	80	40	M 24

**NOTE:**

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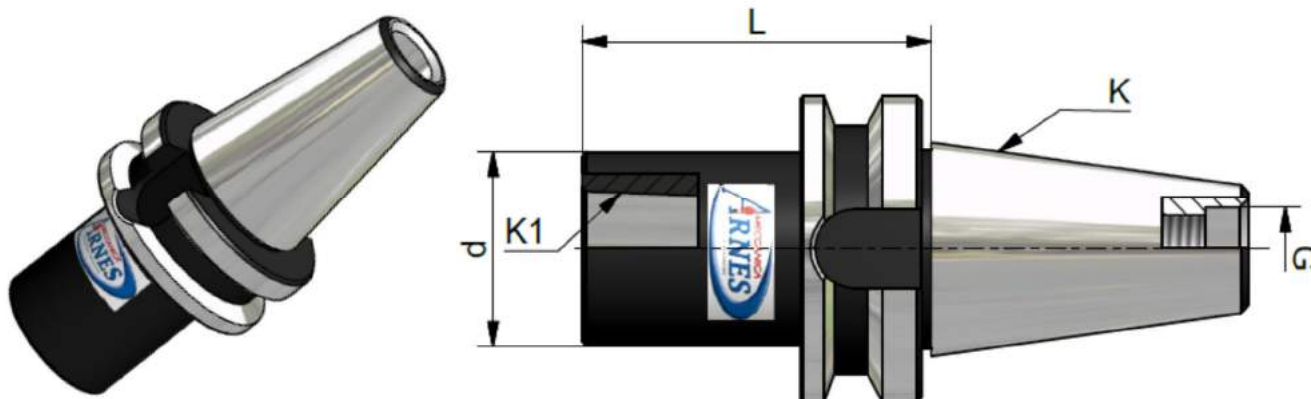


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**MANDRINI RIDUZIONE CONO MORSE PER FRESE  
MORSE CONE REDUCTION CHUCKS FOR MILLING CUTTERS  
MANDRIL REDUCTORES A MORSE PARA FRESAS**



ART	K	K1	d	L	G
-----	---	----	---	---	---

403 MF0/3001	ISO 30	CM 1	25	50	M 12
403 MF0/3002		CM 2	32	60	
403 MF0/3003		CM 3	40	80	

403 MF0/4001	ISO 40	CM 1	25	50	M 16
403 MF0/4002		CM 2	32	50	
403 MF0/4003		CM 3	40	70	
403 MF0/4004		CM 4	48	95	

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE: 403 MF1/40... (L=120)

403 MF0/5002	ISO 50	CM 2	32	50	M 24
403 MF0/5003		CM 3	40	65	
403 MF0/5004		CM 4	48	95	
403 MF0/5005		CM 5	63	120	

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE: 403 MF1/50... (L=170)

I CONI ISO 45 SONO FORNIBILI SU RICHIESTA

**NOTE:**

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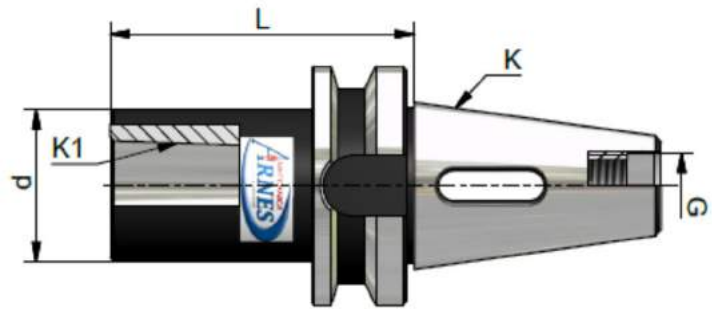


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**MANDRINI RIDUZIONE CONO MORSE PER PUNTE  
MORSE CONE REDUCTION CHUCKS FOR DRILLS  
MANDRIL REDUCTORES A MORSE PARA BROCCAS**



ART	K	K1	d	L	G
-----	---	----	---	---	---

403 M0/3001	ISO 30	CM 1	25	50	M 12
403 M0/3002		CM 2	32	60	
403 M0/3003		CM 3	40	80	

403 M0/4001	ISO 40	CM 1	25	50	M 16
403 M0/4002		CM 2	32	50	
403 M0/4003		CM 3	40	76	
403 M0/4004		CM 4	48	95	

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE:      403 M1/40...      (L=120)

403 M0/5001	ISO 50	CM1	25	45	M 24
403 M0/5002		CM 2	32	60	
403 M0/5003		CM 3	40	65	
403 M0/5004		CM 4	48	95	
403 M0/5005		CM 5	63	105	

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE:      403 M1/50...      (L=120)

I CONI ISO 45 SONO FORNIBILI SU RICHIESTA

**NOTE:**

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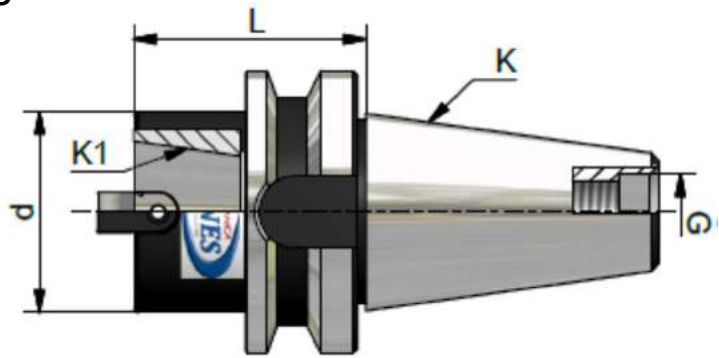


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**MAS 403 BT**

**403 A ...**

MANDRINI RIDUZIONE CONO ISO  
 CHUCKS CONE REDUCTION  
 CONO REDUCTORES CONOS ISO – CONOS ISO



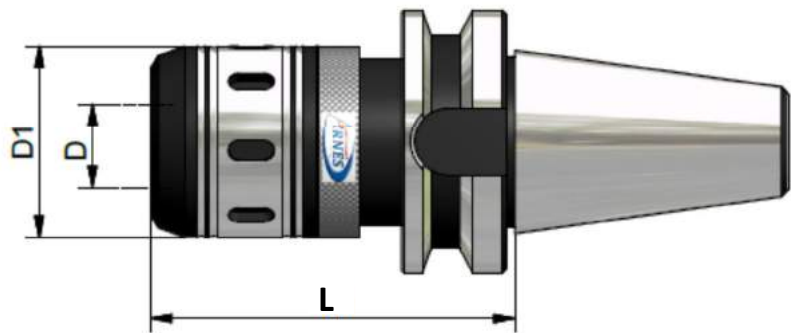
ART	K	K1	d	L	G
403 A0/4030	ISO 40	ISO 30	50	70	M 26
403 A0/5040	ISO 50	ISO 45	63	70	M 24

**MAS403BT – AD+B**

**403 FS ...**

MANDRINI A FORTE SERRAGGIO  
 MILLING CHUCK  
 MANDRIL A FUERTE SUJECIÓN

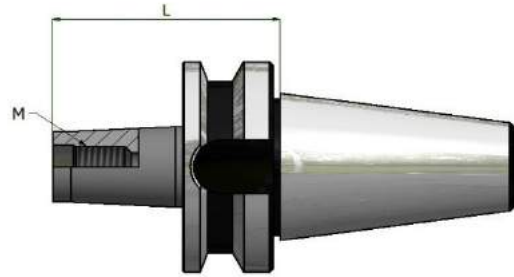
**NEW**



ART	ISO	Descrizione	D	D1	L
403FS4020080	40	ISO40 MAS403BT F. SERR. Ø20 H80	20	46	80
403FS4032080	40	ISO40 MAS403BT F. SERR. Ø32 H85	32	62	85
403FS5020100	50	ISO50 MAS403BT F. SERR. Ø20 H100	20	46	100
403FS5032100	50	ISO50 MAS403BT F. SERR. Ø32 H100	32	62	100

MANDRINI ATTACCO FILETTATO  
 MILLING CUTTER ARBORS FOR SCREW-ON TYPE MILLING CUTTERS  
 MANDRIL A CONEXION ROSCA

**NEW**



ART	K	M	L
403 AF0/4006	ISO 40	6	63
403 AF0/4008		8	63
403 AF0/4010		10	63
403 AF0/4012		12	63
403 AF0/4016		16	63

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE:

403 AF1/40...	(L=83)
403 AF2/40...	(L=103)
403 AF3/40...	(L=123)

403 AF0/5012	ISO 50	12	64
403 AF0/5016		16	64

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE:

403 AF1/50...	(L=104)
403 AF2/50...	(L=154)
403 AF3/50...	(L=204)

**NOTE:**

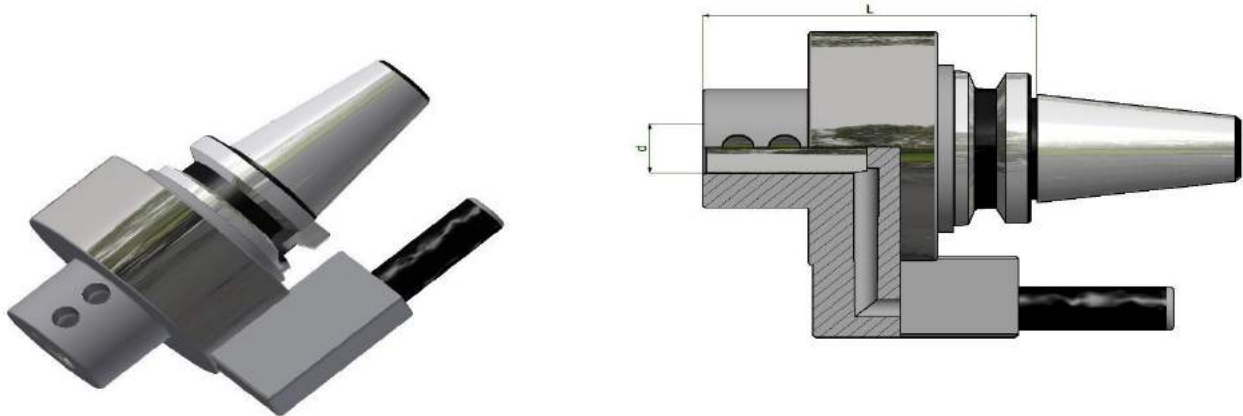
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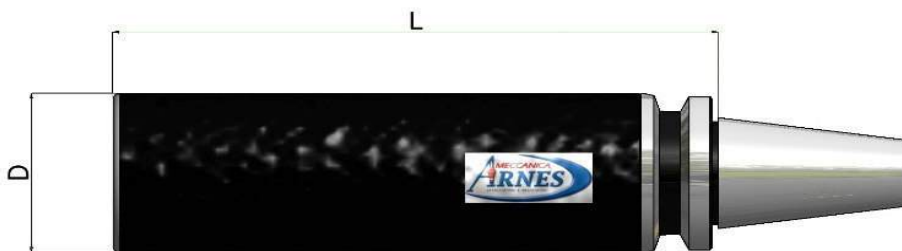
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**MAS403BT****403 DR ...****MANDRINI DISTRIBUTORE ROTANTE  
COOLANT FEEDER**

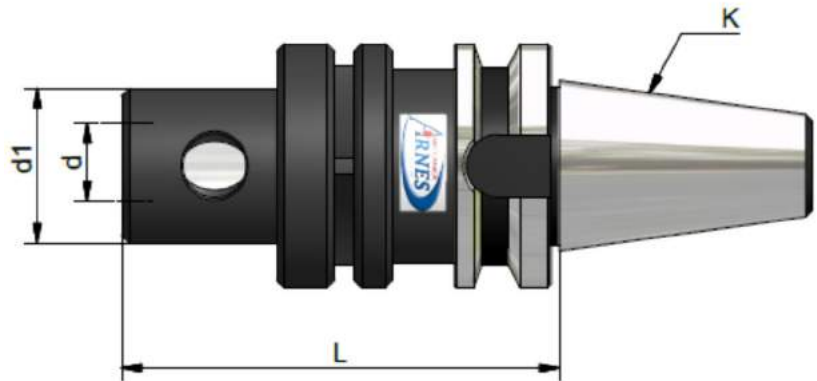
ART	K	d	L
403 DR0/4032	ISO 40	32	65
403 DR0/4040		40	65
403 DR0/5040	ISO 50	40	80

**MAS403BT****403 ST ...****MANDRINI A STELO TENERO  
SOFT SHANK SPINDLE****NEW**

ART	K	d	L
403 ST0/4063	ISO 40	63	250
403 ST0/5097	ISO 50	97	315

ZERO TOP ATTACCO CILINDRICO  
 ZERO TOP CONNECTION CYLINDRICAL  
 ZERO TOP CONEXIÓN CILÍNDRICO

**NEW**



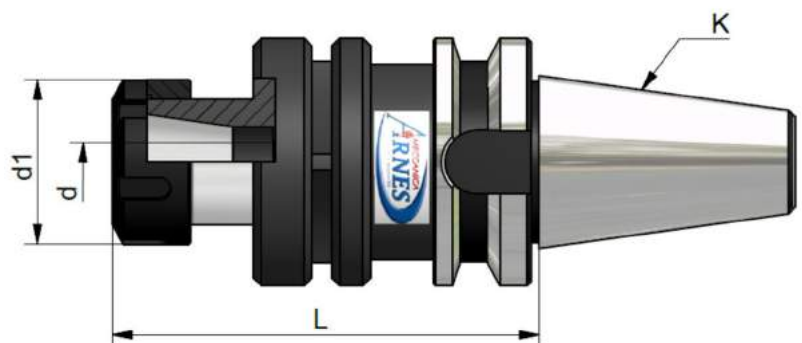
ART	K	d	d1	L
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403ZTC/4010	ISO 40	10	34	95
403ZTC/4014		14	34	95
403ZTC/4016		16	38	95
403ZTC/4018		18	40	95
403ZTC/4020		20	40	105
403ZTC/4025		25	40	105

403ZTC/5010	ISO 50	10	34	95
403ZTC/5014		14	34	95
403ZTC/5016		16	38	95
403ZTC/5018		18	40	95
403ZTC/5020		20	40	105
403ZTC/5025		25	40	105

ZERO TOP PORTA PINZA ER  
 ZERO TOP HOLDER PINCERS ER  
 ZERO TOP PORTAPINZAS ER

**NEW**



ART	K	d	d1	L
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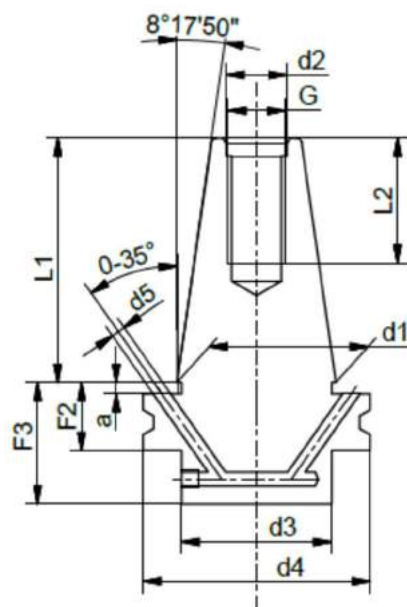
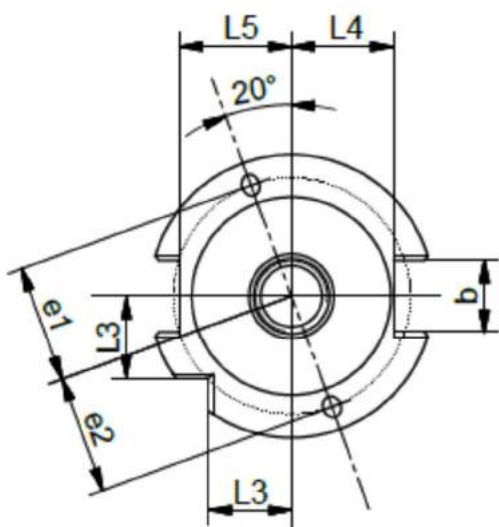
403ZTP0/4020	ISO 40	1 - 13	35	105
403ZTP0/4025		2 - 16	42	105

403ZTP0/5020	ISO 50	1 - 13	35	105
403ZTP0/5025		2 - 16	42	105



# DIN 69871 – AD+B - ISO 7388 / 1

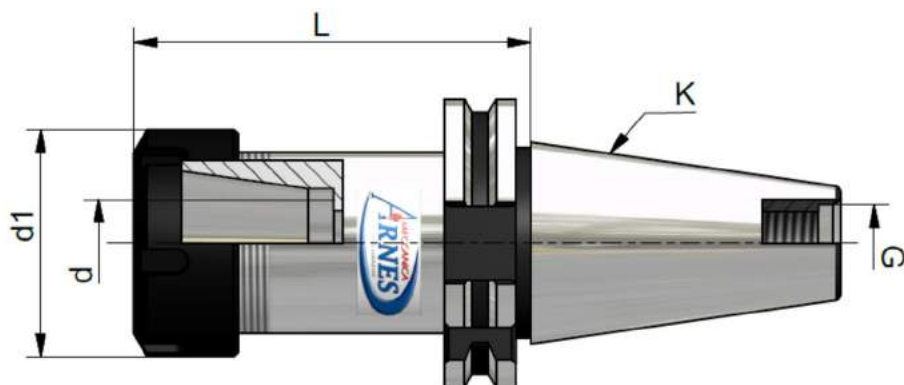
CARATTERISTICHE TECNICHE DIN 69871/A – ISO 7388/1  
 DIN 69871/A – ISO 7388/1 TECHNICAL CHARACTERISTICS  
 CARACTERÍSTICAS TÉCNICAS DIN 69871/A – ISO 7388/1



Bilanciatura:  
 G: 6,3; 12.000 rpm

ART	ISO 30	ISO 40	ISO 45	ISO 50
a ± 0,1 mm	3,2	3,2	3,2	3,2
b H 12 mm	16,1	16,1	19,3	25,7
G	M 12	M 16	M 20	M 24
d mm	7	7	7	7
d1 mm	31,75	44,45	57,15	69,85
d2 H 7	13	17	21	25
d3 MAX	45	50	63	80
d4 -0,1 mm	50,00	63,55	82,55	97,5
d5 ± 0,05 mm	59,3	72,3	91,35	107,25
e1 ± 0,1 mm	21	27	35	42
e2 ± 0,1 mm	21	27	35	42
F1 ± 0,1 mm	11,1	11,1	11,1	11,1
F2 MIN mm	19,1	19,1	19,1	19,1
F3 - 0,1 mm	35	35	35	35
L1 - 0,3 mm	47,8	68,4	82,7	101,75
L2 MIN mm	24	32	40	47
L3 - 0,3 mm	15,0	18,5	24,0	30,0
L4 - 0,4 mm	16,4	22,8	29,1	35,5
L5 - 0,5 mm	19,0	25,0	31,3	37,7
Toll. del cono AT-3 mm	0,002	0,003	0,003	0,004

MANDRINI PORTA PINZE ER DIN 69871/A CON GHIERA DI SERRAGGIO  
 ER DIN 69871/A PINCERS HOLDER CHUCKS WITH LOCKING COLLAR  
 MANDRIL PORTAPINZAS ER DIN 69871/A PARA PINZAS ER



ART	K	d	d <sub>1</sub>	L	Pinze Collets	G
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698 P0/3025	ISO 30	2 - 16	42	55	ER 25	M 12
698 P0/3032		2 - 20	50	60	ER 32	

698 P0/4016	ISO 40	1 - 10	32	70	ER 16	M 16
698 P0/4020		1 - 13	35	70	ER 20	
698 P0/4025		2 - 16	42	70	ER 25	
698 P0/4032		2 - 20	50	70	ER 32	
698 P0/4040		3 - 30	63	70	ER 40	

SONO INOLTRE DISPONIBILE LE SEGUENTI LUNGHEZZE:

698 P1/40...	(L=100)
698 P2/40...	(L=130)
698 P3/40...	(L=160)
698 P4/40...	(L=200)

698 P0/5016	ISO 50	1 - 10	32	70	ER 16	M 24
698 P0/5020		1 - 13	35	70	ER 20	
698 P0/5025		2 - 16	42	70	ER 25	
698 P0/5032		2 - 20	50	70	ER 32	
698 P0/5040		3 - 30	63	80	ER 40	

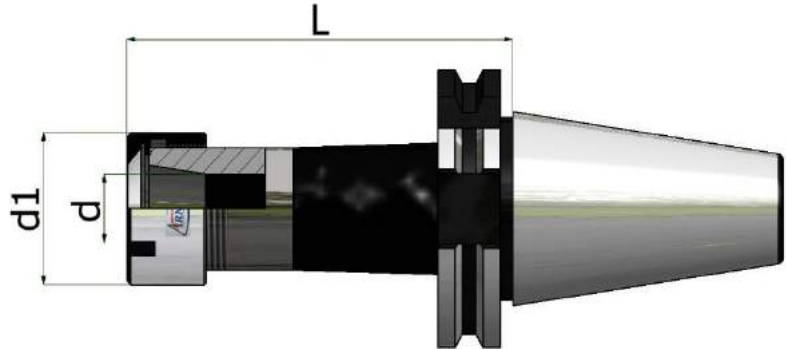
SONO INOLTRE DISPONIBILE LE SEGUENTI LUNGHEZZE:

698 P1/50...	(L=100)
698 P2/50...	(L=130)
698 P3/50...	(L=160)
698 P4/50...	(L=200)

I CONI ISO 45 SONO FORNIBILI SU RICHIESTA

MANDRINI PORTA PINZE ER DIN 69871/A MINI CON GIERA DI SERRAGGIO  
 MINI ER DIN 69871/A COLLETS HOLDER CHUCKS WITH LOCKING COLAR  
 MANDRIL PORTAPINZAS DIN 69871/A PARA PINZAS ER MINI

**NEW**



ART	K	d	d <sub>1</sub>	L	Pinze Collets	G
698P0/4011M	ISO 40	16	20	70	ER 11	M 16
698P0/4016M		22	26	70	ER 16	

SONO INOLTRE DISPONIBILE LE SEGUENTI LUNGHEZZE:

698P1/40... (L=100)  
 698P2/40... (L=130)  
 698P3/40... (L=160)  
 698P4/40... (L=200)

698P0/5016M	ISO 50	22	28	100	ER 16	M 24
698P0/5020M		28	32	100	ER 20	
698P0/5025M		35	35	100	ER 25	

SONO INOLTRE DISPONIBILE LE SEGUENTI LUNGHEZZE:

698P1/40... (L=130)  
 698P2/40... (L=160)  
 698P3/40... (L=200)

**NOTE:**

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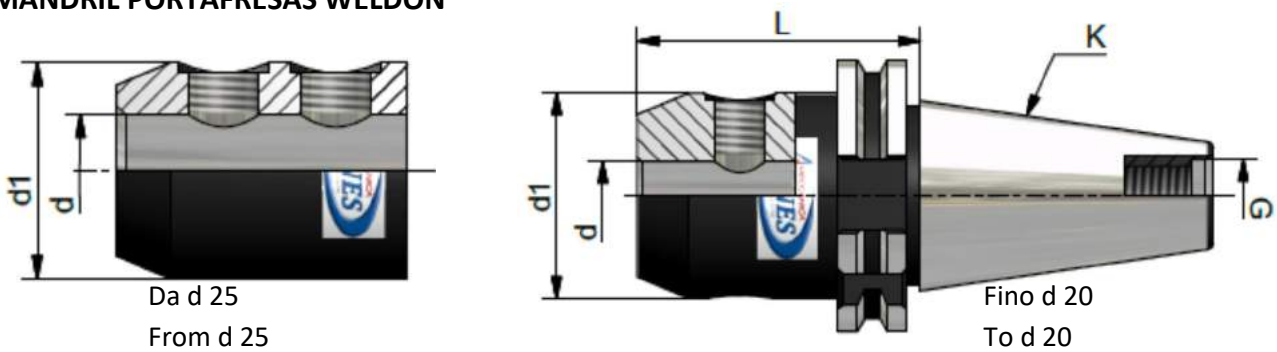


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**MANDRINI PORTA FRESE TIPO WELDON**  
**MILLING CUTTERS HOLDER CHUCKS WELDON MODEL**  
**MANDRIL PORTAFRESAS WELDON**



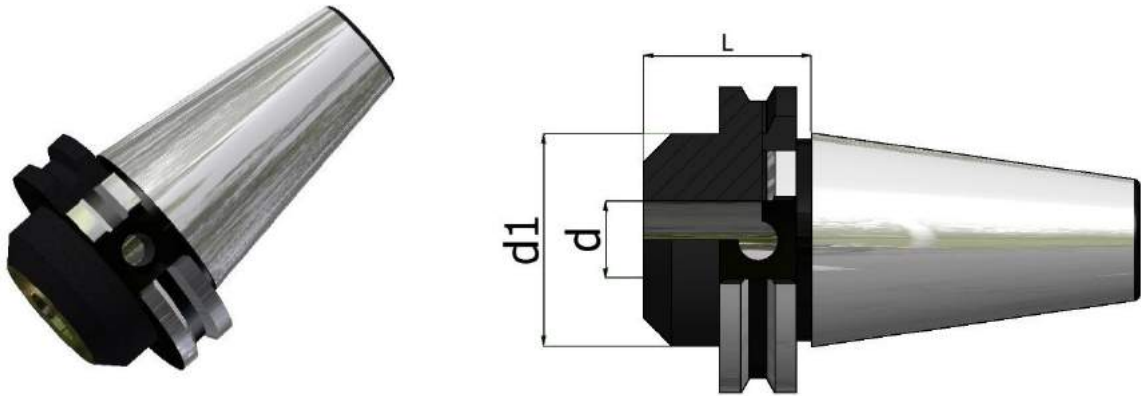
ART	K	d	d <sub>1</sub>	L	G
698 W0/3006	ISO 30	6	25	50	M 12
698 W0/3008		8	28	50	
698 W0/3010		10	25	50	
698 W0/3012		12	42	50	
698 W0/3016		16	48	70	
698 W0/3020		20	52	70	
698 W0/4006	ISO 40	6	25	50	M 16
698 W0/4008		8	28	50	
698 W0/4010		10	25	50	
698 W0/4012		12	42	50	
698 W0/4016		16	48	63	
698 W0/4020		20	52	63	
698 W0/4025		25	65	100	
698 W0/4032		32	72	100	
698 W0/4040	40	80	115		
698 W0/5006	ISO 50	6	25	63	M 24
698 W0/5008		8	28	63	
698 W0/5010		10	25	63	
698 W0/5012		12	42	63	
698 W0/5016		16	48	63	
698 W0/5020		20	52	63	
698 W0/5025		25	65	80	
698 W0/5032		32	72	35	
698 W0/5040		40	80	120	

I CONI ISO 45 SONO FORNIBILI SU RICHIESTA

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE:

698 W1/40...	(L=100)
698 W2/40...	(L=130)
698 W3/40...	(L=160)
698 W4/40...	(L=200)

MANDRINI PORTA FRESE TIPO WELDON EXTRACORTI  
 MILLING CUTTERS HOLDER CHUCKS SHORT WELDON MODEL  
 MANDRIL PORTAFRESAS WELDON BREVE



ART	K	d	d1	L	G
698 WC/4016	ISO 40	16	44	35	M 16
698 WC/4020		20	44	35	
698 WC/4025		25	50	35	
698 WC/4032		32	72	70	
698 WC/5016	ISO 50	16	70	35	M 24
698 WC/5020		20	70	35	
698 WC/5025		25	70	35	
698 WC/5032		32	80	35	
698 WC/5040		40	80	35	

**NOTE:**

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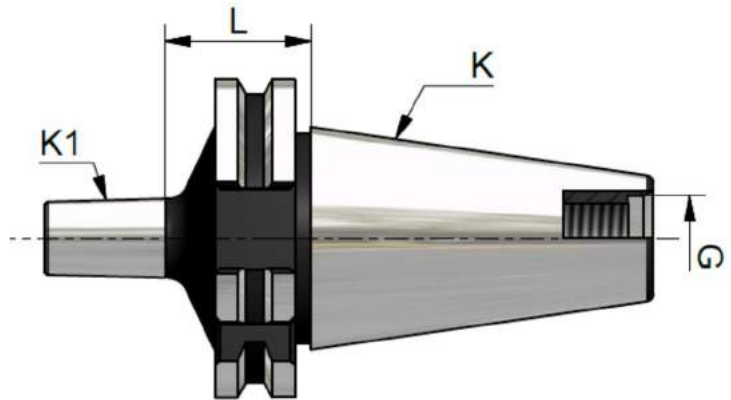


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ATTACCHI PER MANDRINI PORTA PUNTE  
 CONNECTIONS FOR DRILL HOLDER  
 ADAPTADORES PORTABROCAS



ART	K	K1	L	G
698 B0/3012	ISO 30	B 12	25	M 12
698 B0/3016		B 16	25	
698 B0/4012	ISO 40	B 12	40	M 16
698 B0/4016		B 16	40	
698 B0/4018		B 18	40	
698 B0/5012	ISO 50	B 12	40	M 24
698 B0/5016		B 16	40	
698 B0/5018		B 18	40	

I CONI ISO 45 SONO FORNIBILI SU RICHIESTA

**NOTE:**

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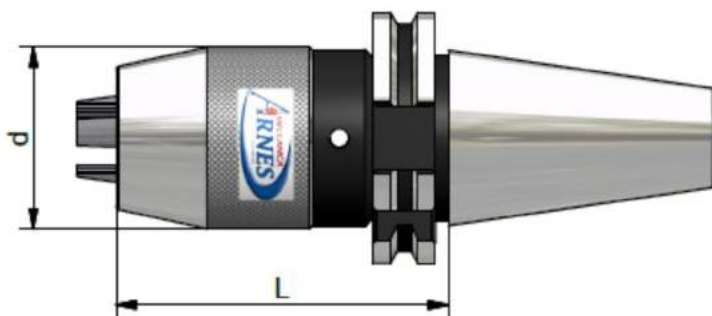


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MANDRINI PORTA PUNTE INTEGRALE  
 MONOLITHIC DRILL CHUCKS  
 PORTABROCAS INTEGRALES CNC



ART	L	Cap. Ø	d
698 PP0/4013	100	0 ÷ 13	51
698 PP0/4016	115	3 ÷ 16	58
698 PP0/5013	100	0 ÷ 13	51
698 PP0/5016	105	3 ÷ 16	58

**NOTE:**

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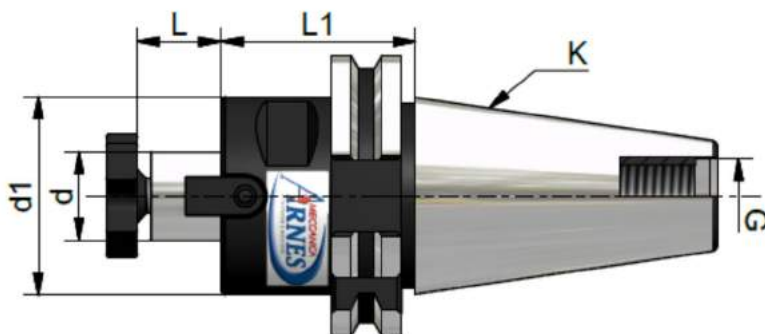


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MANDRINI PORTA FRESE TRASCINAMENTO FISSO  
 MILLING CUTTERS CHUCKS WITH FIXED DRAGGING  
 MANDRIL PORTAFRESAS FIJO



ART	K	d	d <sub>1</sub>	L	L <sub>1</sub>	G
698 F0/3016	ISO 30	16	32	17	35	M 12
698 F0/3022		22	40	19	35	
698 F0/3027		27	48	21	35	
698 F0/4016	ISO 40	16	32	17	45	M 16
698 F0/4022		22	40	19	45	
698 F0/4027		27	48	21	50	
698 F0/4032		32	58	24	55	
698 F0/4040		40	70	27	55	

SONO INOLTRE DISPONIBILE LE SEGUENTI LUNGHEZZE:

698 F1/40...	(L=100)
698 F2/40...	(L=130)
698 F3/40...	(L=160)
698 F4/40...	(L=200)

698 F0/5016	ISO 50	16	38	17	45	M 24
698 F0/5022		22	40	19	45	
698 F0/5027		27	48	21	45	
698 F0/5032		32	58	24	55	
698 F0/5040		40	70	27	55	

SONO INOLTRE DISPONIBILE LE SEGUENTI LUNGHEZZE:

698 F1/50...	(L=100)
698 F2/50...	(L=130)
698 F3/50...	(L=160)
698 F4/50...	(L=200)

**A RICHIESTA MANDRINO PORTA FRESE COMBINATO ISO 40 E ISO 50 (ART. 698 F...C)**

DISPONIBILE NELLE SEGUENTI LUNGHEZZE:

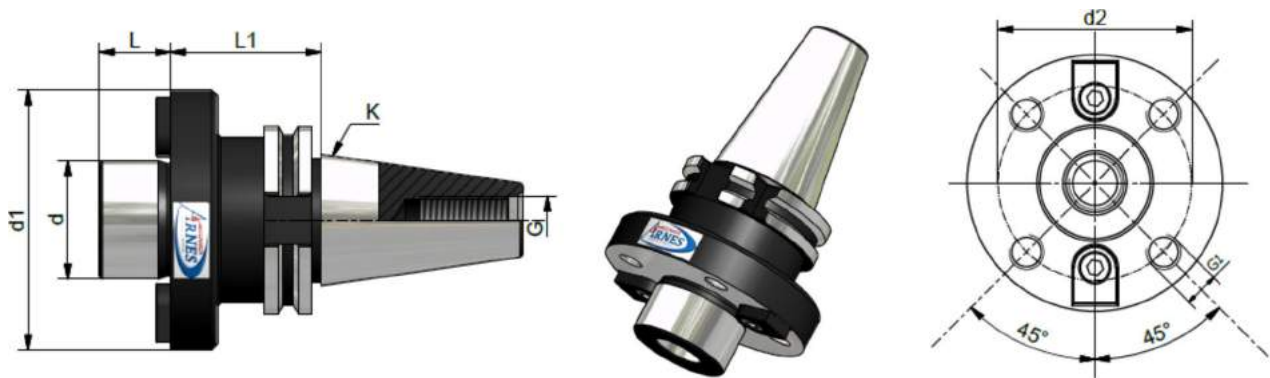
- F0...C : L=55 (esempio: 698F0/4022C, mand. portafrese comb. diam. 22, DIN 69871, ISO40, L. 55)
- F1...C : L=100
- F2...C : L=130
- F3...C : L=160
- F4...C : L=200



## DIN 69871 – AD+B

698 I ...

MANDRINI PORTA FRESE PER FRESE AD INSERTI  
 MILLING CUTTERS HOLDERCHUCKS FOR MILLING CUTTERS WITH INSERT  
 MANDRIL PORTAFRESAS PARA FRESA AD INSERTO

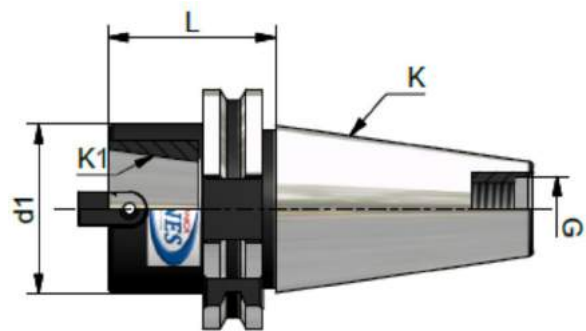


ART	K	d	d1	d2	G1	L	L1	G
69810/4040	ISO 40	40	88	66,7	M 12	24	60	M 16
69810/5040	ISO 50	40	88	66,7	M 12	24	70	M 24
698 10/5060		60	128	101,6	M 16	29	70	M 24

## DIN 69871

698 A ...

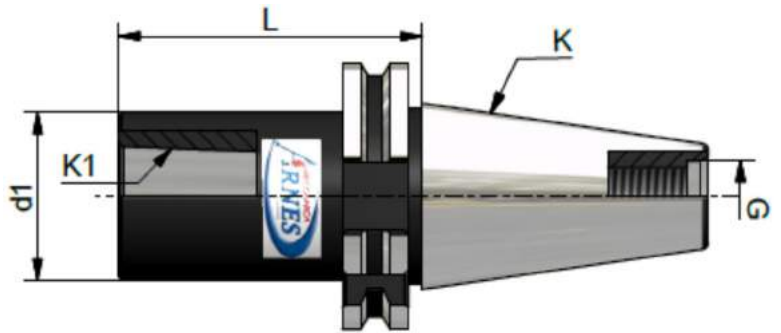
MANDRINI RIDUZIONE DA CONO ISO A CONO ISO  
 REDUCTION CHUCKS FROM ISO CONE TO ISO CONE  
 CONO REDUCTORES CONOS ISO – CONOS ISO



ART	K	K1	d	L	G
698 A0/4030	ISO 40	ISO 30	50	70	M 16
698 A0/5040	ISO 50	ISO 40	63	70	M 24

I CONI ISO 45 SONO FORNIBILI SU RICHIESTA

**MANDRINI RIDUZIONE CONO MORSE PER FRESE  
 MORSE CONE REDUCTION CHUCKS FROM FOR MILLING CUTTERS  
 MANDRIL REDUCTORES A MORSE PARA FRESAS**



ART	K	K1	d1	L	G
698 MF0/3002	ISO 30	CM2	32	60	M12
698 MF0/3003		CM3	40	80	
698 MF0/4001	ISO 40	CM1	25	50	M 16
698 MF0/4002		CM2	32	50	
698 MF0/4003		CM3	40	70	
698 MF0/4004		CM4	48	95	

SONO INOLTRE DISPONIBILE LE SEGUENTI LUNGHEZZE:      698 MF1/40...      (L=120)

698 MF0/5001	ISO 50	CM1	25	50	M 24
698 MF0/5002		CM2	32	50	
698 MF0/5003		CM3	40	65	
698 MF0/5004		CM4	48	95	
698 MF0/5005		CM5	63	100	

SONO INOLTRE DISPONIBILE LE SEGUENTI LUNGHEZZE:      698 MF1/50...      (L=170)

**NOTE:**

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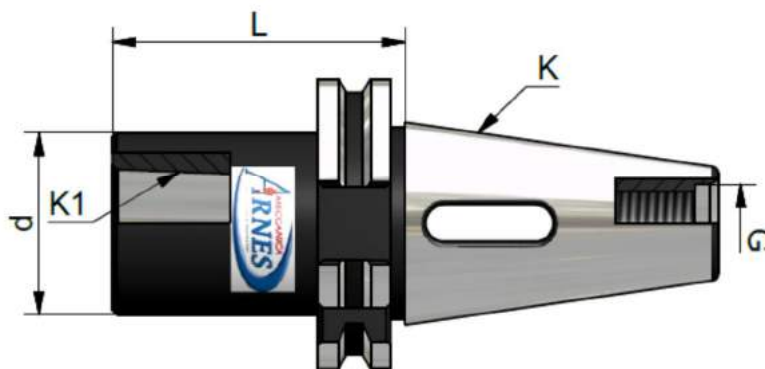


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**MANDRINI RIDUZIONE CONO MORSE PER PUNTE  
MORSE CONE REDUCTION CHUCKS FOR DRILLS  
MANDRIL REDUCTORES A MORSE PARA BROCCAS**



ART	K	K1	d	L	G
698 M0/3001	ISO 30	CM1	25	50	M 12
698 M0/3002		CM2	32	60	
698 M0/3003		CM3	40	80	
698 M0/4001	ISO 40	CM1	25	50	M 16
698 M0/4002		CM2	32	50	
698 M0/4003		CM3	40	76	
698 M0/4004		CM4	48	95	

SONO INOLTRE DISPONIBILE LE SEGUENTI LUNGHEZZE: 698 M1/40... (L=120)

698 M0/5001	ISO 50	CM1	25	45	M 24
698 M0/5002		CM2	32	60	
698 M0/5003		CM3	40	65	
698 M0/5004		CM4	80	95	
698 M0/5005		CM5	63	105	

SONO INOLTRE DISPONIBILE LE SEGUENTI LUNGHEZZE: 698 M1/50... (L=120)

I CONI ISO 45 SONO FORNIBILI SU RICHIESTA

**NOTE:**

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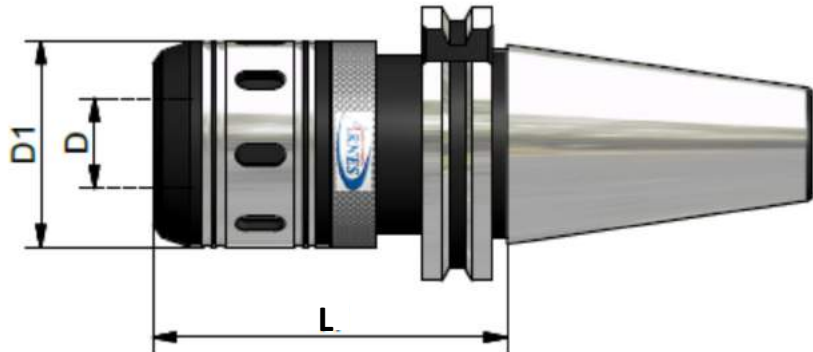
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MANDRINI A FORTE SERRAGGIO  
 MILLING CHUCK  
 MANDRIL A FUERTE SUJECIÓN

**NEW**



ART	ISO	Descrizione	D	D1	L
698FS4020080	40	ISO40 DIN69871 F. SERR. Ø20 H80	20	46	80
698FS4032095		ISO40 DIN69871 F. SERR. Ø32 H95	32	62	95
698FS4020085	50	ISO50 DIN69871 F. SERR. Ø20 H85	20	46	85
698FS4032085		ISO50 DIN69871 F. SERR. Ø32 H85	32	62	85

**NOTE:**

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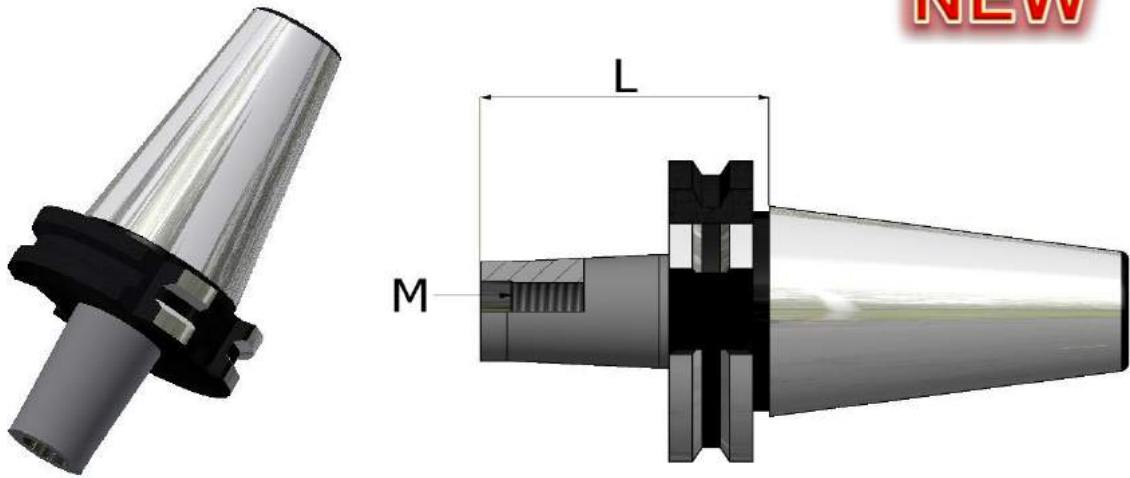
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MANDRINI ATTACCO FILETTATO  
 MILLING CUTTER ARBORS FOR SCREW-ON TYPE MILLING CUTTERS  
 MANDRIL A CONEXION ROSCA

**NEW**



ART	K	M	L
698 AF0/4008	ISO 40	8	55
698 AF0/4010		10	55
698 AF0/4012		12	55
698 AF0/4016		16	55

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE:

698 AF1/40...	(L=75)
698 AF2/40...	(L=95)
698 AF3/40...	(L=115)
698 AF4/40...	(L=145)

698 AF0/5010	ISO 50	10	65
698 AF0/5012		12	65
698 AF0/5016		16	65

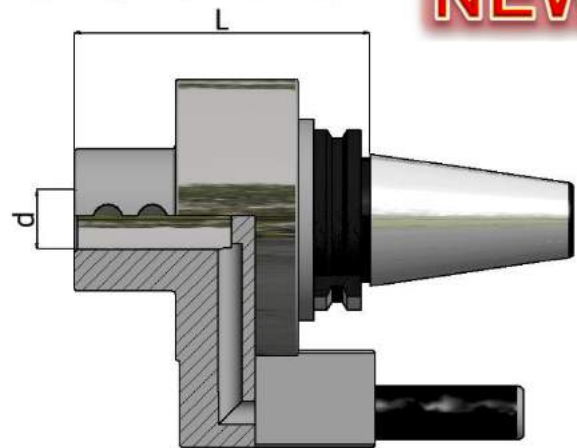
SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE:

698 AF1/50...	(L=85)
698 AF2/50...	(L=135)
698 AF3/50...	(L=185)
698 AF4/50...	(L=235)

DIN 69871

698 DR ...

MANDRINI DISTRIBUTORE ROTANTE  
COOLANT FEEDER

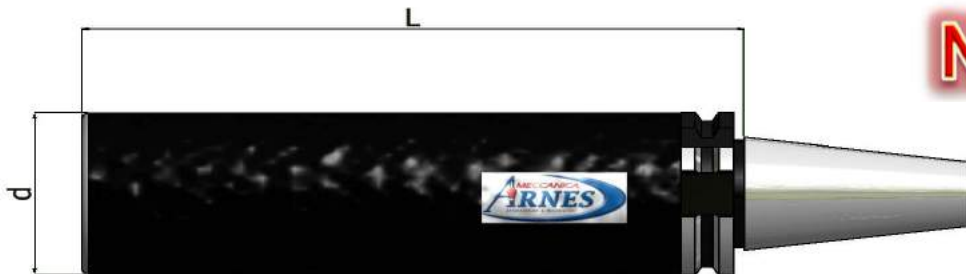


ART	K	d	L
698 DR0/4032	ISO 40	32	65
698 DR0/5040	ISO 50	40	80

DIN 69871

698 ST ...

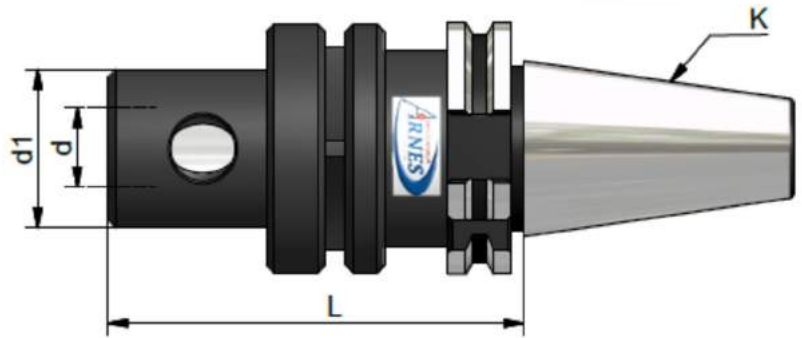
MANDRINI A STELO TENERO  
SOFT SHANK SPINDLE



ART	K	d	L
698 ST0/4063	ISO 40	63	250
698 ST0/5097	ISO 50	97	315

ZERO TOP ATTACCO CILINDRICO  
 ZERO TOP CONNECTION CYLINDRICAL  
 ZERO TOP CONEXIÓN CILÍNDRICO

**NEW**



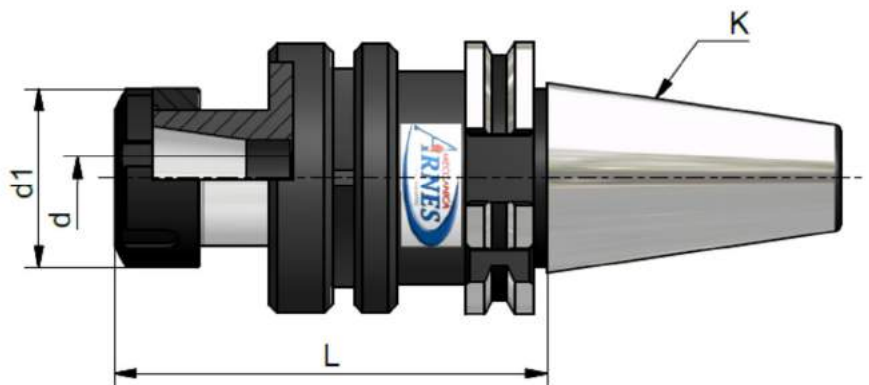
ART	K	d	d1	L
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698ZTC/4010	ISO 40	10	34	95
698ZTC/4014		14	34	95
698ZTC/4016		16	38	95
698ZTC/4018		18	40	95
698ZTC/4020		20	40	105
698ZTC/4025		25	40	105

698ZTC/5010	ISO 50	10	34	95
698ZTC/5014		14	34	95
698ZTC/5016		16	38	95
698ZTC/5018		18	40	95
698ZTC/5020		20	40	105
698ZTC/5025		25	40	105

ZERO TOP PORTA PINZE ER  
 ZERO TOP HOLDER PINCERS ER  
 ZERO TOP PORTAPINZAS ER

**NEW**



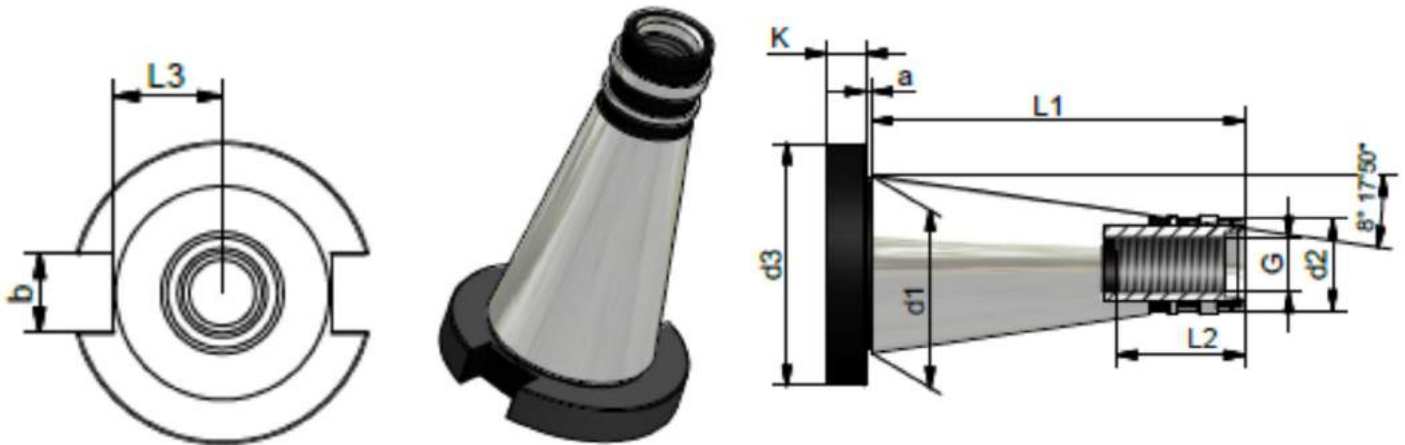
ART	K	d	d1	L
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698ZTP0/4020	ISO 40	1 - 13	35	105
698ZTP0/4025		2 - 16	42	105

698ZTP0/5020	ISO 50	1 - 13	35	105
698ZTP0/5025		2 - 16	42	105

# DIN 2080

CARATTERISTICHE TECNICHE DEL CONO DIN 2080  
 TECHNICAL CHARACTERISTICS OF CONE DIN 2080  
 CARACTERÍSTICAS TÉCNICAS DEL CONO DIN 2080



\* fornibile a richiesta \* by request \* disponible bajo pedido

ART	ISO 30	ISO 40	ISO 50
a ± 0,2 mm	1,6	1,6	3,2
b H 12 mm	16,1	16,1	25,7
G	M 12	M 16	M 24
d1 mm	31,75	44,45	69,85
d2 mm	17,4	25,3	39,6
d3 mm	50	63	97,5
K ± 0,15 mm	8	10	12
L1 mm	68,4	93,4	126,8
L2 mm	24	32	47
L3 MAX mm	16,2	22,5	35,3
Toll. del cono AT3 mm	0,002	0,003	0,004

## NOTE:

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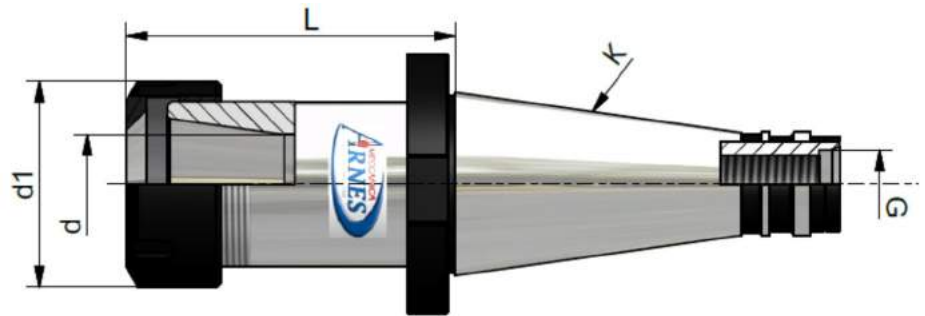
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**MANDRINI PORTA PINZE ER DIN 2080 CON GHIERA DI SERRAGGIO  
ER DIN 2080 COLLETS HOLDER CHUCKS WITH LOCKING COLLARS  
MANDRIL PORTAPINZAS DIN 2080 PARA PINZAS ER**



ART	K	d	d <sub>1</sub>	L	Pinze Collets	G
208 P0/3025	ISO 30	2 - 16	42	40	ER 25	M 12
208 P0/3032		2 - 20	50	60	ER 32	
208 P0/4016	ISO 40	1 - 10	32	70	ER 16	M 16
208 P0/4020		1 - 13	35	70	ER 20	
208 P0/4025		2 - 16	42	70	ER 25	
208 P0/4032		2 - 20	50	70	ER 32	
208 P0/4040		3 - 30	63	70	ER 40	

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE:

208 P1/40...	(L=100)
208 P2/40...	(L=130)
208 P3/40...	(L=160)
208 P4/40...	(L=200)

208 P0/5016	ISO 50	1 - 10	32	80	ER 16	M 24
208 P0/5020		1 - 13	35	80	ER 20	
208 P0/5025		2 - 16	42	80	ER 25	
208 P0/5032		2 - 20	50	80	ER 32	
208 P0/5040		3 - 30	63	80	ER 40	

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE:

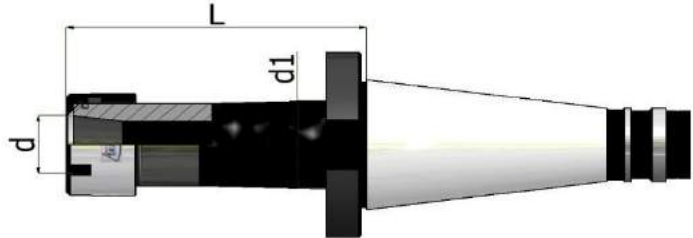
208 P1/50...	(L=100)
208 P2/50...	(L=130)
208 P3/50...	(L=160)
208 P4/50...	(L=200)

I CONI ISO 45 SONO FORNIBILI SU RICHIESTA

**MANDRINI PORTA PINZE ER DIN 2080 MINI CON GIERA DI SERRAGGIO  
 MINI ER DIN 2080 COLLETS HOLDER CHUCKS WITH LOCKING COLAR  
 MANDRIL PORTAPINZAS DIN 2080 PARA PINZAS ER MINI**



**NEW**



ART	K	d	d <sub>1</sub>	L	Pinze Collets	G
208P0/4011M	ISO 40	16	20	100	ER 11	M 16
208P0/4016M		22	26	100	ER 16	
208P0/4020M		28	30	100	ER 20	
208P0/4025M		35	30	100	ER 25	

SONO INOLTRE DISPONIBILE LE SEGUENTI LUNGHEZZE:                    208P1/40...M                    (L=160)

208P0/5016M	ISO 50	22	26	100	ER 16	M 24
208P0/5020M		28	30	100	ER 20	
208P0/5025M		35	30	100	ER 25	

SONO INOLTRE DISPONIBILE LE SEGUENTI LUNGHEZZE:                    208P1/50...M                    (L=160)

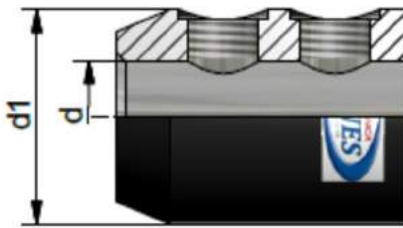
**CASSETTA KIT – KIT BOX**



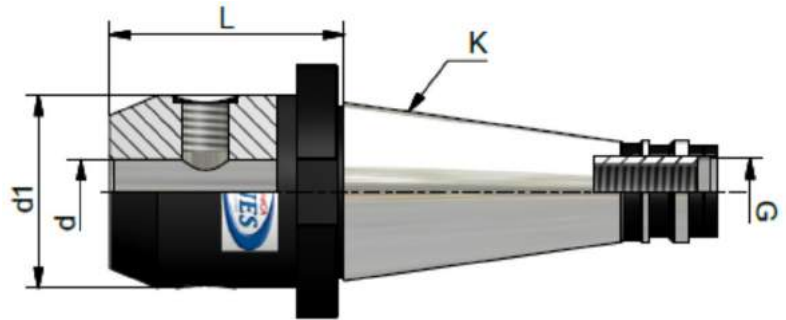
ART	K	Pinze Collets	Ø mm	Serie completa N° Pinze Complete set
* 208 K/3025	ISO 30	ER 25	3 – 16	14
208 K/4032	ISO 40	ER 32	3 – 20	18
* 208 K/4532	ISO 45	ER 32	4 – 26	18
208 K/5040	ISO 50	ER 40	4 - 26	18

◆ La cassetta è fornita con N° 18 pinze    ◆ The box is provided with 18 pincers  
 \* fornibile a richiesta    \* by request

**MANDRINI PORTA FRESE TIPO WELDON  
MILLING CUTTERS HOLDER CHUCK "WELDON" MODEL  
MANDRIL PORTAFRESAS WELDON**



Da d 25  
From d 25



Fino d 20  
To d 20

ART	K	d	d <sub>1</sub>	L	G
208 W0/3006	ISO 30	6	25	40	M 12
208 W0/3008		8	28	40	
208 W0/3010		10	35	40	
208 W0/3012		12	42	40	
208 W0/3016		16	48	50	
208 W0/3020		20	52	63	
208 W0/4006	ISO 40	6	25	50	M 16
208 W0/4008		8	28	50	
208 W0/4010		10	35	50	
208 W0/4012		12	42	50	
208 W0/4016		16	48	63	
208 W0/4020		20	52	63	
208 W0/4025		25	63	90	
208 W0/4032		32	72	90	
208 W0/4040		40	79	90	
208 W0/5006	ISO 50	6	25	50	M 24
208 W0/5008		8	28	50	
208 W0/5010		10	35	63	
208 W0/5012		12	42	63	
208 W0/5016		16	48	63	
208 W0/5020		20	52	63	
208 W0/5025		25	65	20	
208 W0/5032		32	72	35	
208 W0/5040		40	80	95	

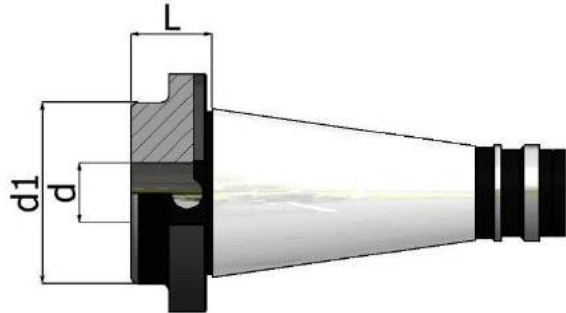
SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE:

208 W1/40...

(L=100)

MANDRINI PORTA FRESE TIPO WELDON EXTRACORTI  
 MILLING CUTTERS HOLDER CHUCKS SHORT WELDON MODEL  
 MANDRIL PORTAFRESAS WELDON BREVE

**NEW**



ART	K	d	d1	L	G
208 WC/4016	ISO 40	16	48	22	M 16
208 WC/4020		20	48	22	
208 WC/4025		25	48	22	
208 WC/4032		32	61	55	
208 WC/5016	ISO 50	16	48	20	M 24
208 WC/5020		20	48	20	
208 WC/5025		25	65	20	
208 WC/5032		32	72	35	

**NOTE:**

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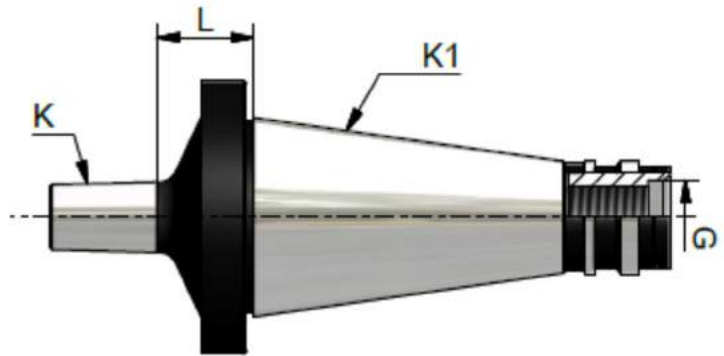


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**DIN 2080**

**208 B ...**

ATTACCHI PER MANDRINI PORTA PUNTE  
 CONNECTION FOR CHUCK DRILLS HOLDER  
 ADAPTADORES PORTABROCAS

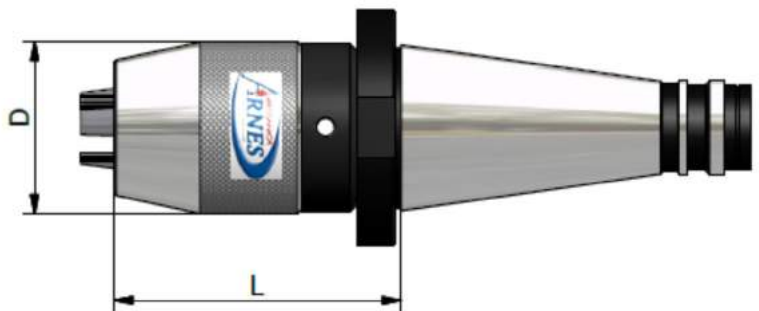


ART	K	K1	L	G
208 B0/3012	ISO 30	B 12	15	M 12
208 B0/3016		B 16	15	
208 B0/4012	ISO 40	B 12	18	M 16
208 B0/4016		B 16	18	
208 B0/4018		B 18	18	
208 B0/5012	ISO 50	B 12	20	M 24
208 B0/5016		B 16	20	
208 B0/5018		B 18	20	

**DIN 2080**

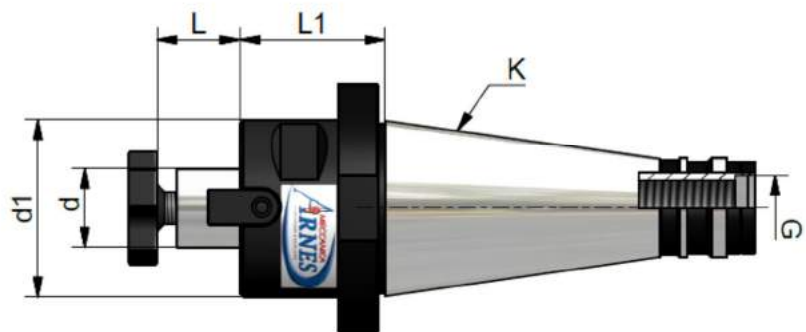
**208 PP ...**

ATTACCHI PER MANDRINI PORTA PUNTE  
 MONOLITHIC DRILL CHUCKS  
 PORTABROCAS INTEGRALES CNC



ART	L	Cap. Ø	D
208 PP0/ 4013	87	0 ÷ 13	51
208 PP0/ 4016	100	3 ÷ 16	58
208 PP0/ 5013	85	0 ÷ 13	51
208 PP0/ 5016	90	3 ÷ 16	58

MANDRINI PORTA FRESE TRASCINAMENTO FISSO  
MILLING CUTTERS HOLDER CHUCKS WITH FIXED DRAGGING  
MANDRIL PORTAFRESA FIJO



ART	K	d	d1	L	L1	G
208 F0/3016	ISO 30	16	32	17	35	M 12
208 F0/3022		22	40	19	35	
208 F0/3027		27	48	21	35	
208 F0/4016	ISO 40	16	38	17	45	M 16
208 F0/4022		22	48	19	45	
208 F0/4027		27	58	21	45	
208 F0/4032		32	78	24	50	
208 F0/4040		40	88	27	55	

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE:

208 F1/40...	(L=100)
208 F2/40...	(L=130)
208 F3/40...	(L=160)
208 F4/40...	(L=200)

208 F0/5016	ISO 50	16	32	17	45	M 24
208 F0/5022		22	40	19	45	
208 F0/5027		27	48	21	45	
208 F0/5032		32	58	24	50	
208 F0/5040		40	70	27	50	

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE:

208 F1/50...	(L=100)
208 F2/50...	(L=130)
208 F3/50...	(L=160)
208 F4/50...	(L=200)

I CONI ISO 45 SONO FORNIBILI SU RICHIESTA

**A RICHIESTA MANDRINO PORTA FRESE COMBINATO ISO 40 E ISO 50 (ART. 208 F...C)**

DISPONIBILE NELLE SEGUENTI LUNGHEZZE:

F0...C : L=55 (esempio: **208F0/4022C**, mand. portafrese comb. diam. 22, DIN 2080, ISO40, L. 55)

F1...C : L=100

F2...C : L=130

F3...C : L=160

F4...C : L=200

MANDRINI PORTA FRESE PER FRESE AD INSERTI  
 MILLING CUTTERS HOLDER CHUCKS FOR MILLING CUTTERS WITH INSERT  
 MANDRIL PORTAFRESAS PARA FRESA AD INSERTO



ART	K	d	d <sub>1</sub>	d <sub>2</sub>	G1	L	L1	G
208 I0/4040	ISO 40	40	88	66,7	M 12	24	20	M 16
208 I0/4050		50	128	101,6	M 16	26	30	
208 I0/4060		60	128	101,6	M 16	29	30	
208 I0/5040	ISO 50	40	88	66,7	M 12	24	30	M 24
208 I0/5050		50	128	101,6	M 16	26	30	
208 I0/5060		60	128	101,6	M 16	29	30	

**NOTE:**

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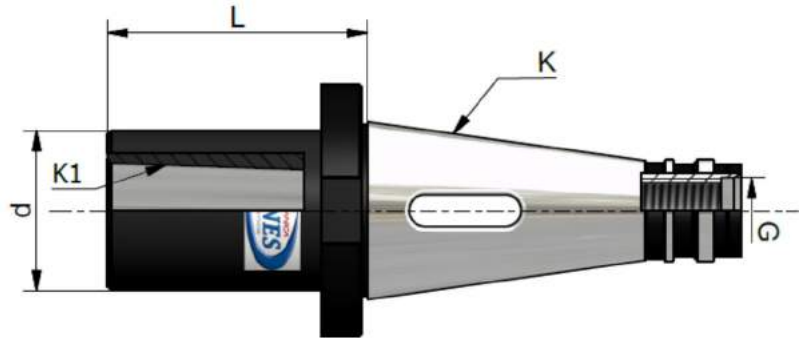


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MANDRINI RIDUZIONE CONO MORSE PER PUNTE  
 MORSE CONE REDUCTION CHUCKS FOR DRILL  
 MANDRIL REDUCTORES A MORSE PARA BROCCAS



ART	K	K1	d	L	G
208 M0/3001	ISO 30	CM 1	25	50	M 12
208 M0/3002		CM 2	32	50	
208 M0/3003		CM 3	40	70	
208 M0/4001	ISO 40	CM 1	25	50	M 16
208 M0/4002		CM 2	32	50	
208 M0/4003		CM 3	40	65	
208 M0/4004		CM 4	48	95	

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE:      208 M1/40...      (L=92)

208 M0/5001	ISO 50	CM1	25	45	M 24
208 M0/5002		CM 2	32	60	
208 M0/5003		CM 3	40	65	
208 M0/5004		CM 4	48	70	
208 M0/5005		CM 5	70	105	

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE:      208 M1/50...      (L=120)

**NOTE:**

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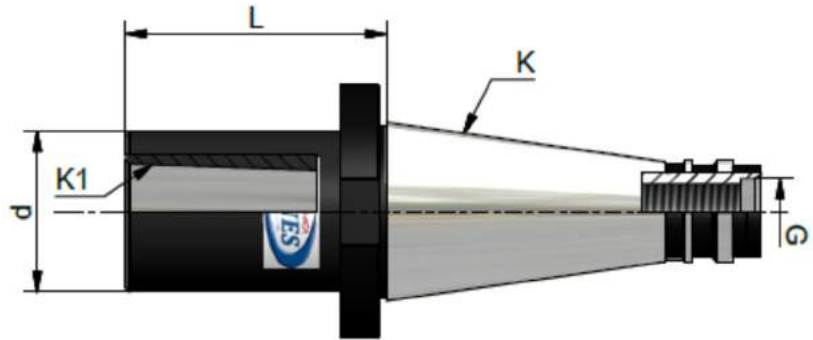
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MANDRINI RIDUZIONE CONO MORSE PER FRESE  
 MORSE CONE REDUCTION CHUCKS FOR MILLING CUTTERS  
 MANDRIL REDUCTORES A MORSE PARA FRESAS



ART	K	K1	d	L	G
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208 MF0/3001	ISO 30	CM 1	25	50	M 12
208 MF0/3002		CM 2	32	50	
208 MF0/3003		CM 3	40	80	

208 MF0/4001	ISO 40	CM 1	25	50	M 16
208 MF0/4002		CM 2	32	50	
208 MF0/4003		CM 3	40	65	
208 MF0/4004		CM 4	48	95	

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE: 208 MF1/40... (L=115)

208 MF0/5001	ISO 50	CM1	25	45	M 24
208 MF0/5002		CM 2	32	60	
208 MF0/5003		CM 3	40	65	
208 MF0/5004		CM 4	48	65	
208 MF0/5005		CM 5	63	120	

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE: 208 MF1/50...(L=115)

**NOTE:**

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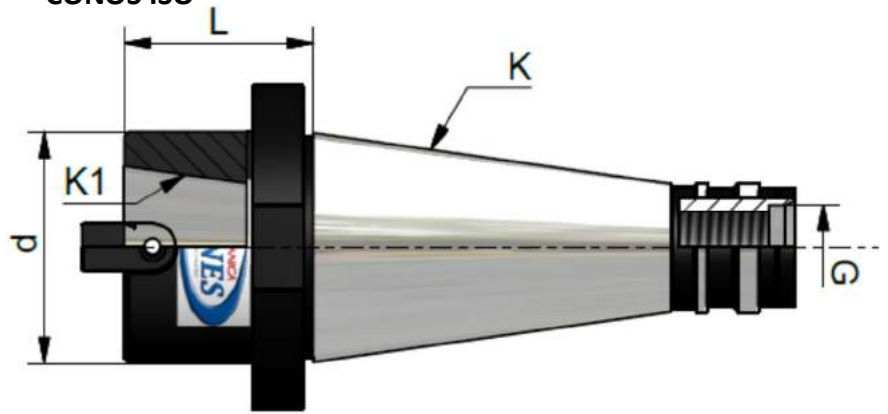


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**DIN 2080**

**208 A ...**

MANDRINI RIDUZIONE DA CONO ISO A CONO ISO  
 REDUCTION CHUCKS FROM ISO CONE TO ISO CONE  
 CONO REDUCTORES CONOS ISO – CONOS ISO



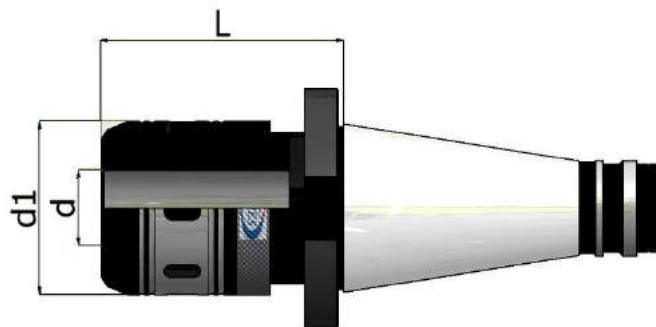
ART	K	K1	d	L	G
208 A/4030	ISO 40	ISO 30	50	50	M 16
208 A/5030	ISO 50	ISO 30	50	50	M 24
208 A/5040		ISO 40	63	63	

**DIN 2080**

**208 FS ...**

MANDRINI A FORTE SERRAGGIO  
 MILLING CHUCK  
 MANDRIL A FUERTE SUJECIÓN

**NEW**

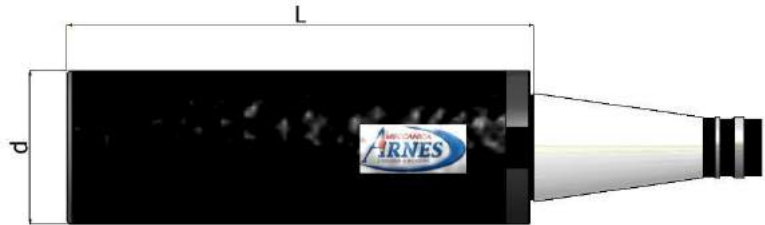


ART	ISO	Descrizione	D	D1	L
208FS4020060	40	DIN2080 ISO40 F. SERR. Ø20 H65	20	46	65
208FS4032080		DIN2080 ISO40 F. SERR. Ø32 H80	32	62	80
208FS5020070	50	DIN2080 ISO50 F. SERR. Ø20 H70	20	46	70
208FS5032075		DIN2080 ISO50 F. SERR. Ø32 H75	32	62	75

MANDRINI A STELO TENERO  
SOFT SHANK SPINDLE



**NEW**



ART	K	d	L
208 ST0/4063	ISO 40	63	250
208 ST0/5097	ISO 50	97	315

**NOTE:**

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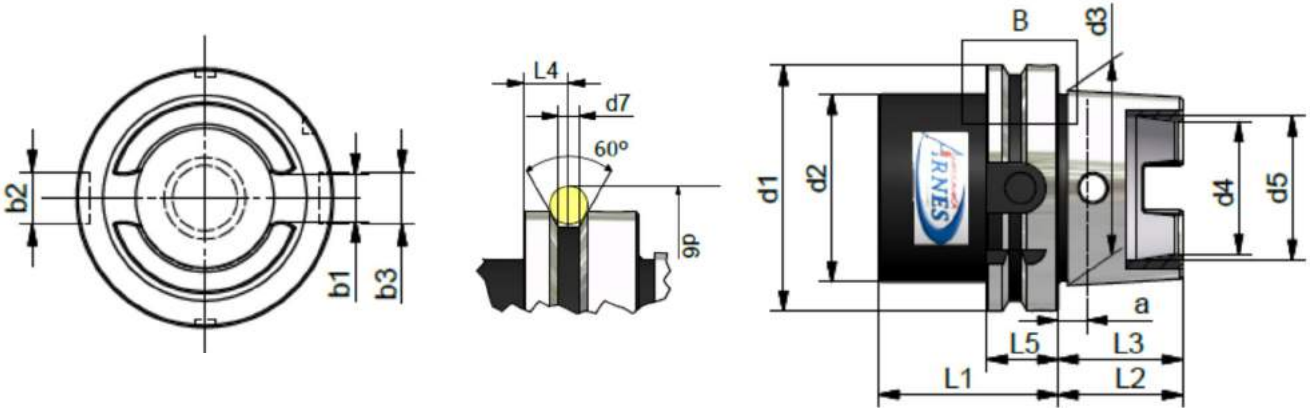
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# ART. HSK form A+C

CARATTERISTICHE TECNICHE DEL CONO DIN 69893 HSK A+C  
 DIN 69893 HSK A+C CONE TECHNICAL CHARACTERISTIC  
 CARACTERÍSTICAS TÉCNICAS DEL CONO DIN 69893 HSK A+C



**Bilanciatura:**  
**G: 6,3; 20.000 rpm**

ART	d1	d2	d3	d4	d5	d6	d7	a	L1	L2	L3	L4	L5	b1	b2	b3
HSK32	32	26	24	17	19	37,00	4	3,2	16	35	20	16	8,92	7,05	7	9
HSK40	40	34	30	21	23	45,00	4	4,0	20	35	20	16	11,42	8,05	9	11
HSK50	50	42	38	26	29	59,30	7	5,0	25	42	26	18	14,13	10,54	12	14
HSK63	63	53	48	34	37	72,30	7	6,3	32	42	26	18	26	12,54	16	18
HSK80	80	67	60	42	46	88,80	7	8,0	40	42	26	18	22,85	16,04	18	20
HSK100	100	85	75	53	58	109,75	7	10,0	50	45	29	20	28,56	20,02	20	22

**NOTE:**

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**PORTA PINZE ER GHIERA MINI  
ER COLLET CHUCK WITH SMALL NUT  
PORTAPINZAS ER CASQUILLO MINI**



ART	D	Cap. Ø	L	Pinza - Collet
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HSK 50 AER 16 M0	22	1 ÷ 10	100	ER 16
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SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE:      HSK 50 AER 16 M1      (L=160)

HSK 63 AER 16 M0	22	1 ÷ 10	100	ER 16
HSK 63 AER 20 M0	28	1 ÷ 13	100	ER 20
HSK 63 AER 25 M0	35	1 ÷ 16	100	ER 25

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE:      HSK 63 AER 16 M1      (L=160)

HSK 100 AER 16 M0	22	1 ÷ 10	100	ER 16
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SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE:      HSK 100 AER 16 M1      (L=160)

HSK 100 AER 16 M2      (L=200)

**NOTE:**

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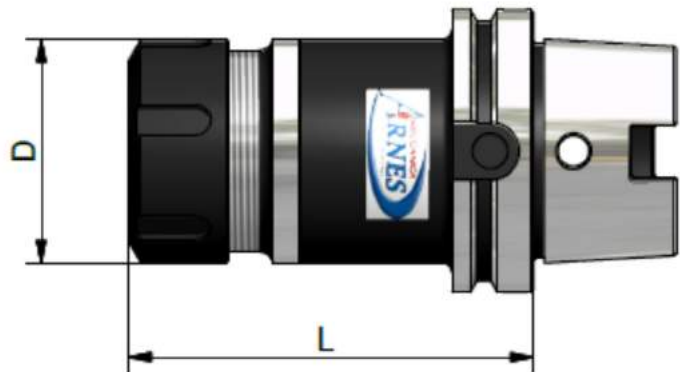


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PORTA PINZE ER GHIERA STANDARD  
 ER COLLET CHUCK WITH STANDARD NUT  
 PORTAPINZAS ER CASQUILLO STANDARD



ART	D	Cap. Ø	L	Pinza - Collet
HSK 50 AER 1600	32	1 ÷ 10	70	ER 16
HSK 50 AER 2000	35	1 ÷ 13	70	ER 20
HSK 50 AER 2500	42	1 ÷ 16	70	ER 25
HSK 50 AER 3200	50	1 ÷ 20	70	ER 32
HSK 50 AER 4000	63	1 ÷ 30	75	ER 40

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE: HSK 50 AER 1601 (L=100)  
 HSK 50 AER 1602 (L=120)  
 HSK 50 AER 1603 (L=160)

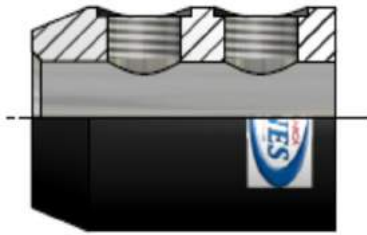
HSK 63 AER 1600	32	1 ÷ 10	75	ER 16
HSK 63 AER 2000	35	1 ÷ 13	75	ER 20
HSK 63 AER 2500	42	1 ÷ 16	75	ER 25
HSK 63 AER 3200	50	1 ÷ 20	75	ER 32
HSK 63 AER 4000	63	1 ÷ 30	80	ER 40

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE: HSK 63 AER 1601 (L=100)  
 HSK 63 AER 1602 (L=120)  
 HSK 63 AER 1603 (L=160)  
 HSK 63 AER 1604 (L=200)

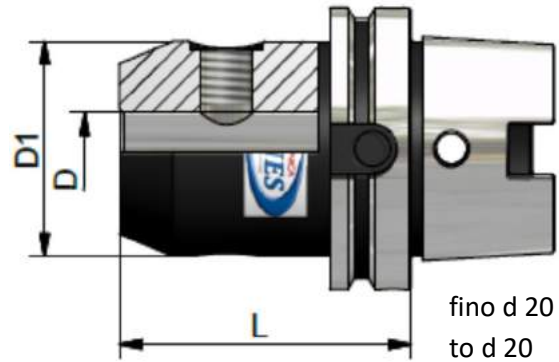
HSK 100 AER 2000	35	1 ÷ 13	100	ER 20
HSK 100 AER 2500	42	1 ÷ 16	100	ER 25
HSK 100 AER 3200	50	2 ÷ 20	100	ER 32
HSK 100 AER 4000	63	1 ÷ 30	100	ER 40

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE: HSK 100 AER 1601 (L=120)  
 HSK 100 AER 1602 (L=160)  
 HSK 100 AER 1603 (L=200)

**PORTA FRESE WELDON  
WELDON AND MILL HOLDERS  
PORTAFRESAS WELDON**



Da d 25  
From d 25



ART	D	D1	L
HSK 50 AW 006	6	25	65
HSK 50 AW 008	8	28	65
HSK 50 AW 010	10	35	65
HSK 50 AW 012	12	42	80
HSK 50 AW 014	14	44	80
HSK 50 AW 016	16	48	80
HSK 50 AW 018	18	50	80
HSK 50 AW 020	20	52	80
HSK 50 AW 025	25	65	105
HSK 50 AW 032	32	72	120

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE: HSK 50 AW1 (L=100)  
HSK 50 AW2 (L=160)

HSK 63 AW 006	6	25	65
HSK 63 AW 008	8	28	65
HSK 63 AW 010	10	35	65
HSK 63 AW 012	12	42	80
HSK 63 AW 014	14	44	80
HSK 63 AW 016	16	48	80
HSK 63 AW 018	18	50	80
HSK 63 AW 020	20	52	80
HSK 63 AW 024	24	63	100
HSK 63 AW 025	25	65	110
HSK 63 AW 032	32	72	110
HSK 63 AW 040	40	80	125

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE: HSK 63 AW1 (L=100)  
HSK 63 AW2 (L=120)  
HSK 63 AW3 (L=160)

HSK 100 AW 006	6	25	80
HSK 100 AW 008	8	28	80
HSK 100 AW 010	10	35	80
HSK 100 AW 012	12	42	80
HSK 100 AW 014	14	44	80

HSK 100 AW 016	16	48	100
HSK 100 AW 018	18	50	100
HSK 100 AW 020	20	52	100
HSK 100 AW 025	25	65	100
HSK 100 AW 032	32	72	100
HSK 100 AW 040	40	80	105
HSK 100 AW 050	50	100	160

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE: HSK 100 AW1 (L=160)  
HSK 100 AW2 (L=200)

**NOTE:**

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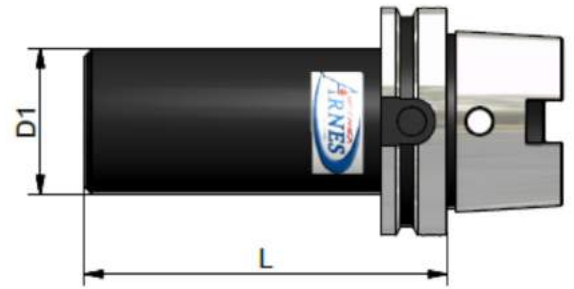
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**ART. HSK****MF ...**

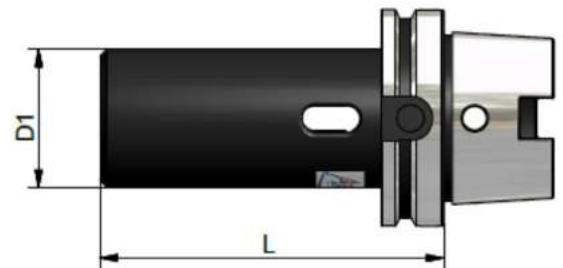
**RIDUZIONE A CONO MORSE PER FRESE**  
**MORSE TAPER ADAPTERS FOR MILLING CUTTERS**  
**REDUCTORES A CONO MORSE PARA FRESAS**

ART	CM	D1	L
HSK 50 AMF 001	1	25	100
HSK 50 AMF 002	2	32	120
HSK 50 AMF 003	3	40	140
HSK 63 AMF 001	1	25	100
HSK 63 AMF 002	2	32	120
HSK 63 AMF 003	3	40	140
HSK 63 AMF 004	4	48	160
HSK 100 AMF 001	1	25	110
HSK 100 AMF 002	2	32	120
HSK 100 AMF 003	3	40	150
HSK 100 AMF 004	4	48	170
HSK 100 AMF 005	5	63	200

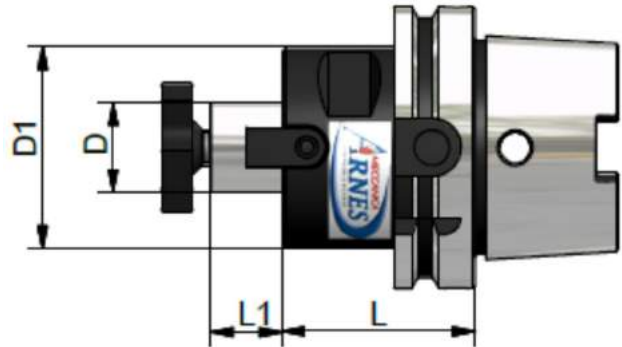
**ART. HSK****M ...**

**RIDUZIONE A CONO MORSE PER PUNTE**  
**MORSE TAPER ADAPTERS FOR TWIST DRILLS**  
**REDUCTORES A CONO MORSE PARA BROCAS**

ART	CM	D1	L
HSK 50 AM 001	1	25	100
HSK 50 AM 002	2	32	120
HSK 50 AM 003	3	40	140
HSK 63 AM 001	1	25	100
HSK 63 AM 002	2	32	120
HSK 63 AM 003	3	40	140
HSK 63 AM 004	4	48	160
HSK 100 AM 001	1	25	110
HSK 100 AM 002	2	32	120
HSK 100 AM 003	3	40	150
HSK 100 AM 004	4	48	170
HSK 100 AM 005	5	63	200



**PORTA FRESE FISSI  
SHELL MILL HOLDERS  
PORTAFRESAS FIJO**



ART	D	L1	D1	L
HSK 50 AF 016	16	17	38	50
HSK 50 AF 022	22	19	48	60
HSK 50 AF 027	27	21	58	60
HSK 50 AF 032	32	24	66	60
HSK 50 AF 040	40	27	80	70

HSK 63 AF 016	16	17	38	50
HSK 63 AF 022	22	19	48	50
HSK 63 AF 027	27	21	58	60
HSK 63 AF 032	32	24	66	60
HSK 63 AF 040	40	27	80	60

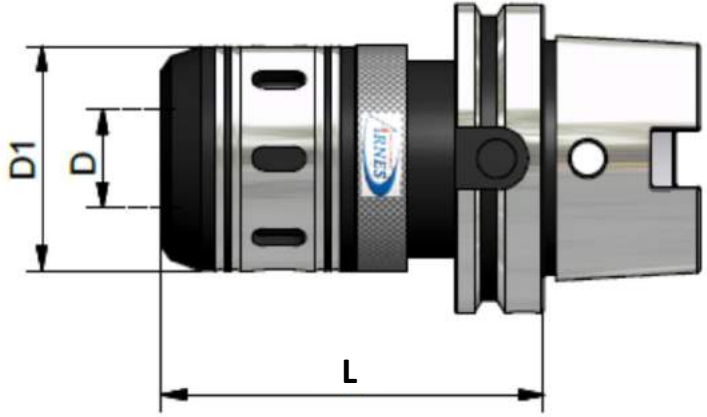
SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE: HSK 63 AF1 (L=100)  
HSK 63 AF2 (L=160)

HSK 100 AF 016	16	17	38	50
HSK 100 AF 022	22	19	48	50
HSK 100 AF 027	27	21	58	50
HSK 100 AF 032	32	24	66	50
HSK 100 AF 040	40	27	80	60

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE: HSK 100 AF1 (L=100)  
HSK 100 AF2 (L=130)  
HSK 100 AF3 (L=160)  
HSK 100 AF4 (L=200)  
HSK 100 AF5 (L=250)

**MANDRINI A FORTE SERRAGGIO**  
**MILLING CHUCK**  
**MANDRIL A FUERTE SUJECCIÓN**

**NEW**



ART	D	D1	L
HSK 50FS 2090	20	46	90
HSK 50FS 32110	32	62	110
HSK 63FS 2085	20	46	85
HSK 63FS 32110	32	62	110
HSK 100FS 20105	20	46	105
HSK 100FS 32115	32	62	115

**NOTE:**

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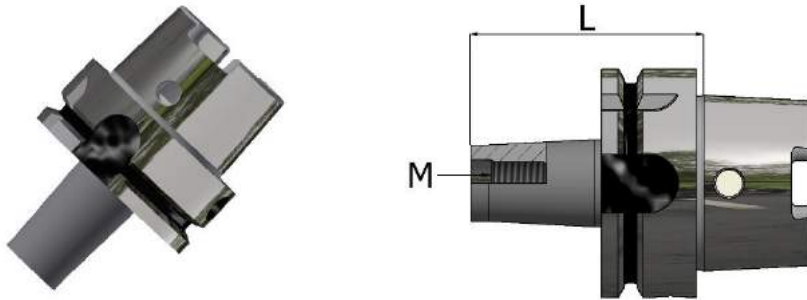


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## MANDRINI CON ATTACCO FILETTATO

## MILLING CHUCK ARBORS FOR SCREW-ON TYPE MILLING CUTTERS

## MANDRIL A CONEXION ROSCA

**NEW**

ART	M	L
HSK 50AAF 006	6	59
HSK 50AAF 008	8	59
HSK 50AAF 010	10	59
HSK 50AAF 012	12	59

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE: HSK 50 AAF1 (L=84)  
 HSK 50 AAF2 (L=109)  
 HSK 50 AAF3 (L=134)

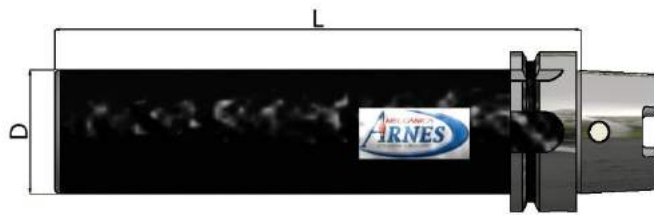
HSK 63AAF 008	8	59
HSK 63AAF 010	10	59
HSK 63AAF 012	12	59
HSK 63AAF 016	16	59

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE: HSK 63 AAF1 (L=84)  
 HSK 63 AAF2 (L=109)  
 HSK 63 AAF3 (L=134)  
 HSK 63 AAF4 (L=159)  
 HSK 63 AAF5 (L=184)  
 HSK 63 AAF6 (L=209)

HSK 100AAF 012	12	87
HSK 100AAF 016	16	87

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE: HSK 100 AAF1 (L=137)  
 HSK 100 AAF2 (L=187)  
 HSK 100 AAF3 (L=237)

**MANDRINI A STELO TENERO  
SOFT SHANK SPINDLE**



**NEW**

ART	D	L
HSK 50AST 050	50	200
HSK 50AST 063	63	200
HSK 63AST 063	63	250
HSK 63AST 080	80	250
HSK 100AST 097	97	315

**NOTE:**

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ZERO TOP ATTACCO CILINDRICO  
 ZERO TOP CONNECTION CYLINDRICAL  
 ZERO TOP CONEXIÓN CILÍNDRICO

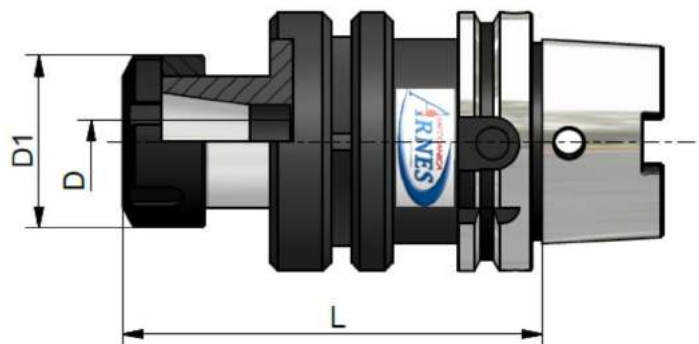
**NEW**



ART	D	D1	L
HSK63ZTC10	10	34	95
HSK63ZTC14	14	34	95
HSK63ZTC16	16	38	95
HSK63ZTC18	18	40	95
HSK63ZTC20	20	40	105
HSK63ZTC25	25	40	105
HSK100ZTC10	10	34	95
HSK100ZTC14	14	34	95
HSK100ZTC16	16	38	95
HSK100ZTC18	18	40	95
HSK100ZTC20	20	40	105
HSK100ZTC25	25	40	105

ZERO TOP PORTA PINZE ER  
 ZERO TOP HOLDER PINCERS ER  
 ZERO TOP PORTAPINZAS ER

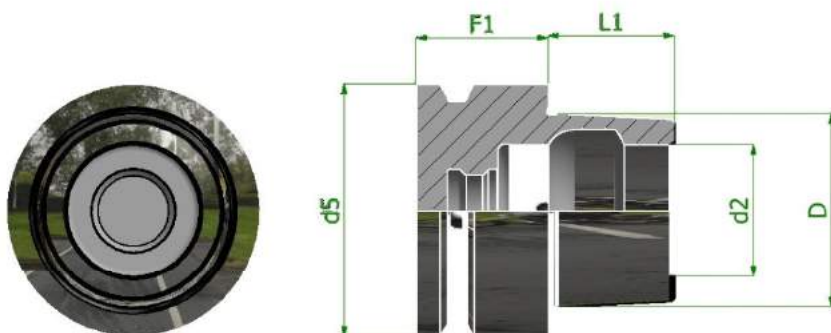
**NEW**



ART	D	D1	L
HSK63ZTP020	1 - 13	35	105
HSK63ZTP025	2 - 16	42	105
HSK100ZTP020	1 - 13	35	105
HSK100ZTP025	2 - 16	42	105

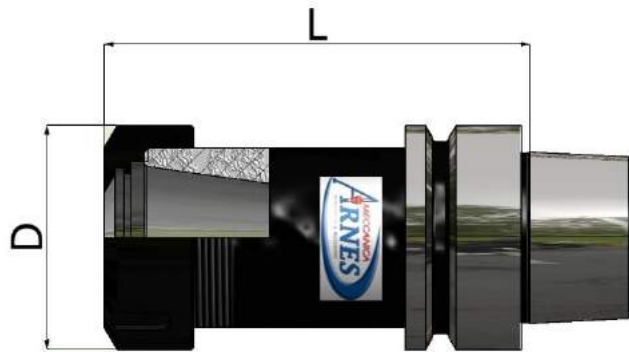
## ART. HSK form E

CARATTERISTICHE TECNICHE DEL CONO DIN 69893 HSK E  
DIN 69893 HSK E CONE TECHNICAL CHARACTERISTIC  
CARACTERÍSTICAS TÉCNICAS DEL CONO DIN 69893 HSK E



	HSK 50	HSK 63
<b>D</b>	38	43
<b>d2</b>	26	34
<b>d5</b>	50	63
<b>F1</b>	26	26
<b>L1</b>	25	32

**PORTA PINZE ER GHIERA STANDARD  
ER COLLET CHUCK WITH STANDARD NUT  
PORTAPINZAS ER CASQUILLO STANDARD**



ART	D	L	Pinza - Collet
HSK 50 EER 1600	32	100	ER 16
HSK 50 EER 2000	35	100	ER 20
HSK 50 EER 2500	42	100	ER 25
HSK 50 EER 3200	50	100	ER 32
HSK 50 EER 4000	63	100	ER 40

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE: HSK 50 EER 1601 (L=160)

HSK 63 EER 1600	32	75	ER 16
HSK 63 EER 2500	42	75	ER 25
HSK 63 EER 3200	50	75	ER 32
HSK 63 EER 4000	63	75	ER 40

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE: HSK 63 EER 1601 (L=100)

**NOTE:**

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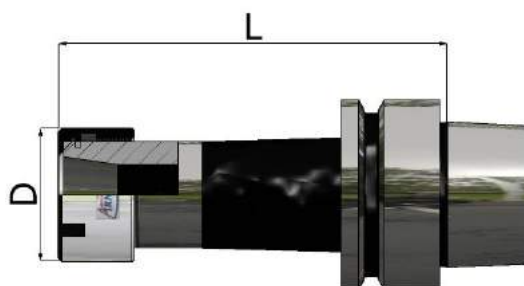


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PORTA PINZE ER GHIERA MINI  
 ER COLLET CHUCK WITH SMALL NUT  
 PORTAPINZAS ER CASQUILLO MINI

**NEW**



ART	D	L	Pinza - Collet
HSK 50 EER 11 M0	16	100	ER 11
HSK 50 EER 16 M0	22	100	ER 16

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE: HSK 50 EER 11 M1 (L=160)

**NOTE:**

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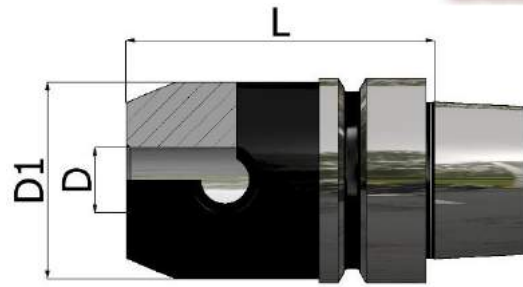
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**PORTA FRESE WELDON  
WELDON AND MILL HOLDERS  
PORTAFRESAS WELDON**

**NEW**



ART	D	D1	L
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HSK 50 EW 006	6	25	65
HSK 50 EW 008	8	28	65
HSK 50 EW 010	10	35	65
HSK 50 EW 012	12	42	80
HSK 50 EW 014	14	44	80
HSK 50 EW 016	16	48	80
HSK 50 EW 018	18	50	80
HSK 50 EW 020	20	52	80
HSK 50 EW 025	25	65	105

HSK 63 EW 006	6	25	65
HSK 63 EW 008	8	28	65
HSK 63 EW 010	10	35	70
HSK 63 EW 012	12	42	80
HSK 63 EW 014	14	44	80
HSK 63 EW 016	16	48	80
HSK 63 EW 018	18	50	80
HSK 63 EW 020	20	52	80
HSK 63 EW 025	25	65	105
HSK 63 EW 032	32	72	110

**NOTE:**

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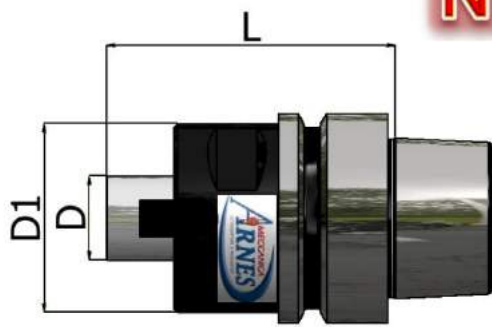
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PORTA FRESE FISSI  
SHELL MILL HOLDERS  
PORTAFRESAS FIJO

**NEW**



ART	D	D1	L
HSK 50 EF 016	16	38	50
HSK 50 EF 022	22	48	60
HSK 50 EF 027	27	58	60
HSK 50 EF 032	32	66	60
HSK 50 EF 040	40	80	70
HSK 63 EF 016	16	38	50
HSK 63 EF 022	22	48	50
HSK 63 EF 027	27	58	60
HSK 63 EF 032	32	66	60
HSK 63 EF 040	40	80	65

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE:    HSK 63 EF 116        (L=100)  
    HSK 63 EF 216        (L=130)  
    HSK 63 EF 316        (L=160)

**NOTE:**

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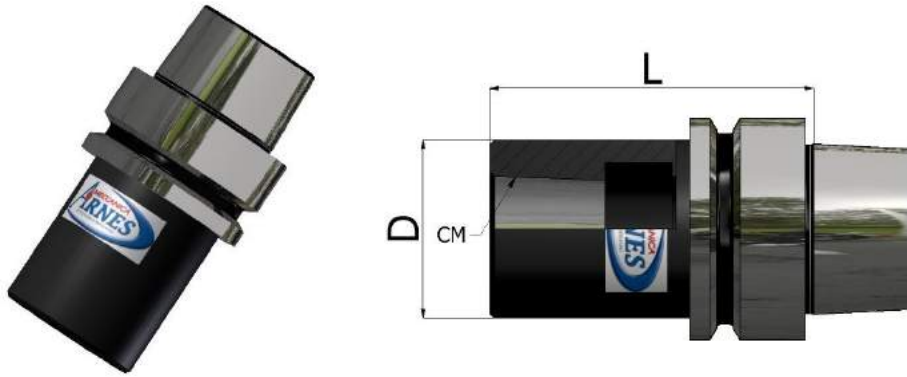
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**RIDUZIONE A CONO MORSE PER FRESE  
 MORSE TAPER ADAPTERS FOR MILLING CUTTERS  
 REDUCTORES A CONO MORSE PARA FRESAS**

**NEW**



ART	CM	D1	L
HSK 50 EMF 001	1	25	105
HSK 50 EMF 002	2	32	120
HSK 50 EMF 003	3	40	140
HSK 63 EMF 001	1	25	100
HSK 63 EMF 002	2	32	125
HSK 63 EMF 003	3	40	145
HSK 63 EMF 004	4	48	165

**NOTE:**

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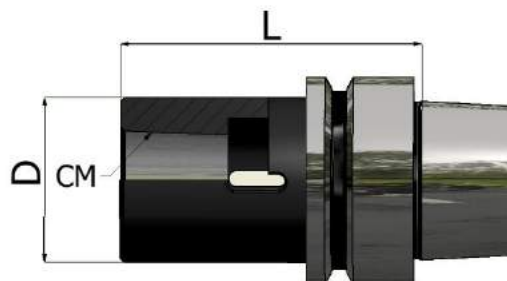
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**RIDUZIONE A CONO MORSE PER PUNTE  
 MORSE TAPER ADAPTERS FOR TWIST DRILLS  
 REDUCTORES A CONO MORSE PARA BROCAS**

**NEW**



ART	CM	D1	L
HSK 50 EM 001	1	25	100
HSK 50 EM 002	2	32	120
HSK 50 EM 003	3	40	140
HSK 50 EM 004	4	48	160
HSK 63 EM 001	1	25	100
HSK 63 EM 002	2	32	120
HSK 63 EM 003	3	40	140
HSK 63 EM 004	4	48	165

**NOTE:**

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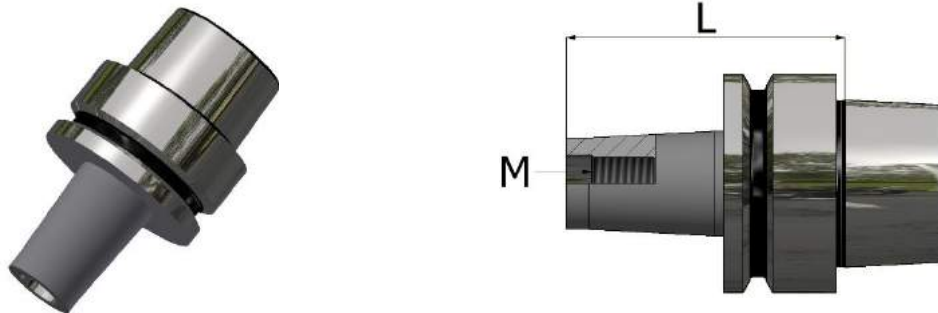


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MANDRINI CON ATTACCO FILETTATO  
MILLING CHUCK ARBORS FOR SCREW-ON TYPE MILLING CUTTERS  
MANDRIL A CONEXION ROSCA

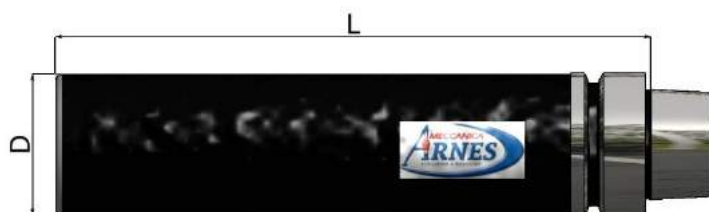
**NEW**

ART	M	L
HSK 63EAF 006	6	59
HSK 63EAF 008	8	59
HSK 63EAF 010	10	59
HSK 63EAF 012	12	59
HSK 63EAF 016	16	59

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE:

HSK 63EAF 106	(L=84)
HSK 63EAF 206	(L=109)
HSK 63EAF 306	(L=134)
HSK 63EAF 406	(L=159)

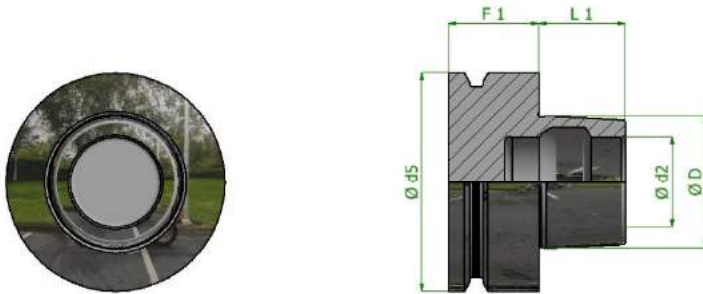
MANDRINI A STELO TENERO  
SOFT SHANK SPINDLE

**NEW**

ART	D	L
HSK 50EST 050	50	200
HSK 50EST 063	63	200
HSK 63EST 063	63	200
HSK 63EST 080	80	250

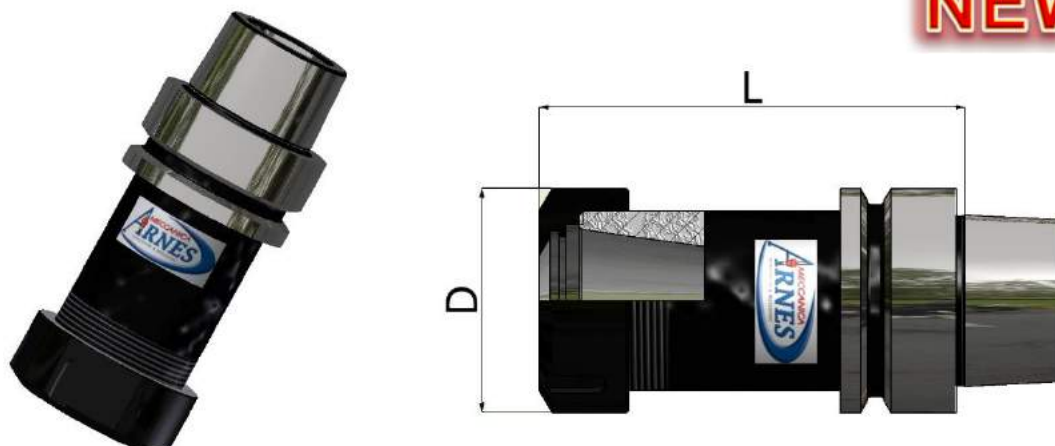
# ART. HSK form F

CARATTERISTICHE TECNICHE DEL CONO DIN 69893 HSK F  
DIN 69893 HSK F CONE TECHNICAL CHARACTERISTIC  
CARACTERÍSTICAS TÉCNICAS DEL CONO DIN 69893 HSK F



	HSK 50	HSK 63
<b>D</b>	38	43
<b>d2</b>	26	34
<b>d5</b>	50	63
<b>F1</b>	26	26
<b>L1</b>	25	32

PORTA PINZE ER GHIERA STANDARD  
 ER COLLET CHUCK WITH STANDARD NUT  
 PORTAPINZAS ER CASQUILLO STANDARD

**NEW**

ART	D	L	Pinza - Collet
HSK 50 FER 1600	32	100	ER 16
HSK 50 FER 2000	35	100	ER 20
HSK 50 FER 2500	42	100	ER 25
HSK 50 FER 3200	50	100	ER 32
HSK 50 FER 4000	63	100	ER 40

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE: HSK 50 FER 1601 (L=160)

HSK 63 FER 1600	32	100	ER 16
HSK 63 FER 2000	35	100	ER 20
HSK 63 FER 2500	42	100	ER 25
HSK 63 FER 3200	50	100	ER 32
HSK 63 FER 4000	63	100	ER 40

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE: HSK 63 FER 1601 (L=120)  
 HSK 63 FER 1602 (L=160)

**NOTE:**


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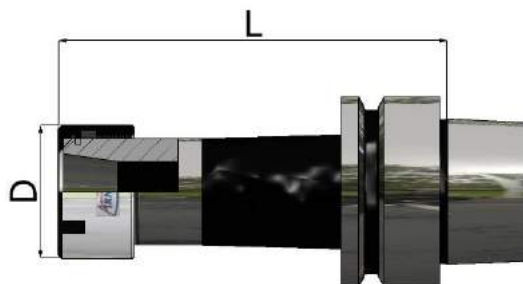
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**PORTA PINZE ER GHIERA MINI  
ER COLLET CHUCK WITH SMALL NUT  
PORTAPINZAS ER CASQUILLO MINI**



ART	D	L	Pinza - Collet
HSK 50 FER 11 M0	16	100	ER 11
HSK 50 FER 16 M0	22	100	ER 16

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE: HSK 50 FER 11 M1 (L=160)

HSK 63 FER 11 M0	16	100	ER 11
HSK 63 FER 16 M0	22	100	ER 16
HSK 63 FER 20 M0	28	100	ER 20
HSK 63 FER 25 M0	35	100	ER 25

**NOTE:**

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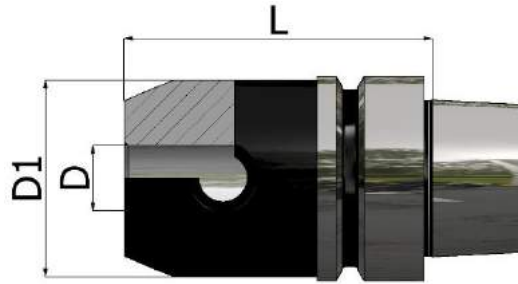
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**PORTA FRESE WELDON  
WELDON AND MILL HOLDERS  
PORTAFRESAS WELDON**

**NEW**



ART	D	D1	L
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HSK 50 FW 006	6	25	65
HSK 50 FW 008	8	28	65
HSK 50 FW 010	10	35	70
HSK 50 FW 012	12	42	80
HSK 50 FW 014	14	44	80
HSK 50 FW 016	16	48	80
HSK 50 FW 018	18	50	80
HSK 50 FW 020	20	52	80
HSK 50 FW 025	25	65	105

HSK 63 FW 006	6	25	65
HSK 63 FW 008	8	28	65
HSK 63 FW 010	10	35	65
HSK 63 FW 012	12	42	80
HSK 63 FW 014	14	44	80
HSK 63 FW 016	16	48	80
HSK 63 FW 018	18	50	80
HSK 63 FW 020	20	52	80
HSK 63 FW 025	25	65	110
HSK 63 FW 032	32	72	110

**NOTE:**

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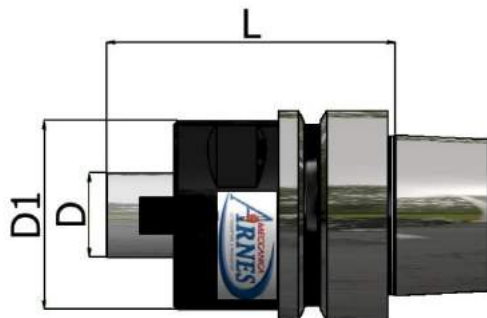
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**PORTA FRESE FISSI  
SHELL MILL HOLDERS  
PORTAFRESAS FIJO**

**NEW**



ART	D	D1	L
HSK 50 FF 016	16	38	50
HSK 50 FF 022	22	48	50
HSK 50 FF 027	27	58	60
HSK 50 FF 032	32	66	60
HSK 50 FF 040	40	80	70
HSK 63 FF 016	16	38	50
HSK 63 FF 022	22	48	50
HSK 63 FF 027	27	58	60
HSK 63 FF 032	32	66	60
HSK 63 FF 040	40	80	60

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE: HSK 63 FF 116 (L=100)  
 HSK 63 FF 216 (L=130)  
 HSK 63 FF 316 (L=160)

**NOTE:**

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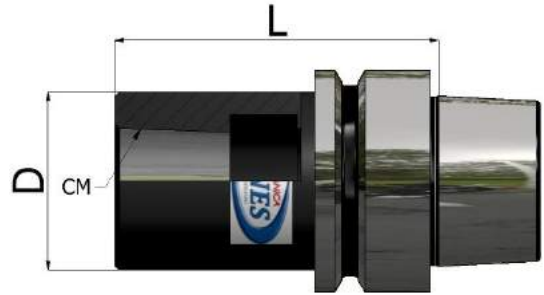
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**RIDUZIONE A CONO MORSE PER FRESE  
 MORSE TAPER ADAPTERS FOR MILLING CUTTERS  
 REDUCTORES A CONO MORSE PARA FRESAS**

**NEW**



ART	CM	D1	L
HSK 50 FMF 001	1	25	100
HSK 50 FMF 002	2	32	120
HSK 50 FMF 003	3	40	140
HSK 63 FMF 001	1	25	100
HSK 63 FMF 002	2	32	120
HSK 63 FMF 003	3	40	140
HSK 63 FMF 004	4	48	160

**NOTE:**

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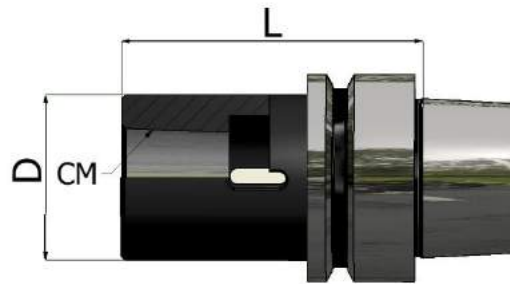
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**ART. HSK****M ...**

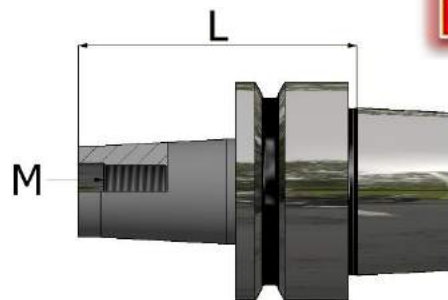
RIDUZIONE A CONO MORSE PER PUNTE  
 MORSE TAPER ADAPTERS FOR TWIST DRILLS  
 REDUCTORES A CONO MORSE PARA BROCAS

**NEW**

ART	CM	D1	L
HSK 50 FM 001	1	25	100
HSK 50 FM 002	2	32	120
HSK 50 FM 003	3	40	140
HSK 50 FM 004	4	48	160
HSK 63 FM 001	1	25	100
HSK 63 FM 002	2	32	120
HSK 63 FM 003	3	40	140
HSK 63 FM 004	4	48	165

**ART. HSK****HSK AF ...**

MANDRINI CON ATTACCO FILETTATO  
 MILLING CHUCK ARBORS FOR SCREW-ON TYPE MILLING CUTTERS  
 MANDRIL A CONEXION ROSCA

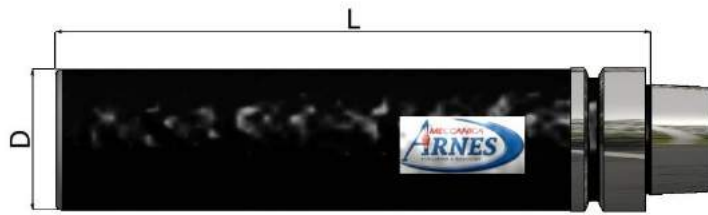
**NEW**

ART	M	L
HSK 63FAF 006	6	59
HSK 63FAF 008	8	59
HSK 63FAF 010	10	59
HSK 63FAF 012	12	59
HSK 63FAF 016	16	59

SONO INOLTRE DISPONIBILI LE SEGUENTI LUNGHEZZE: HSK 63FAF 106 (L=84)  
 HSK 63FAF 206 (L=109)  
 HSK 63FAF 306 (L=134)

**MANDRINI A STELO TENERO  
SOFT SHANK SPINDLE**

**NEW**



ART	D	L
HSK 50FST 050	50	200
HSK 50FST 063	63	200
HSK 63FST 063	63	200
HSK 63FST 080	80	250

**NOTE:**

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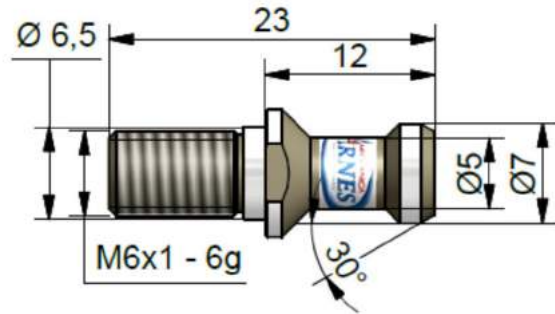
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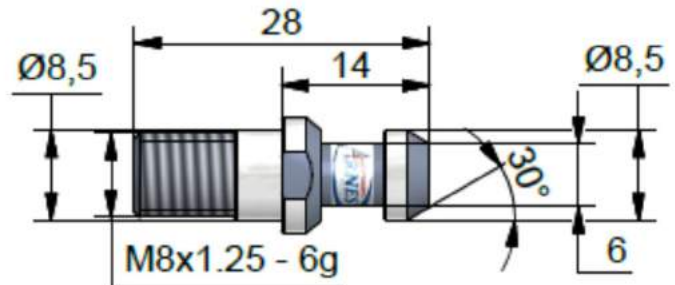
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**TENONI PER MANDRINI**  
**TULLSTUDS FOR CHUCKS**  
**TIRANTES PARA MANDRIL**

**TENONI PER CODOLO ISO 15**  
**TULLSTUDS FOR TANG ISO 15**  
**TIRANTES PARA MANGO ISO 15**



**TENONI PER CODOLO ISO 20**  
**TULLSTUDS FOR TANG ISO 20**  
**TIRANTES PARA MANGO ISO 20**



**NOTE:**

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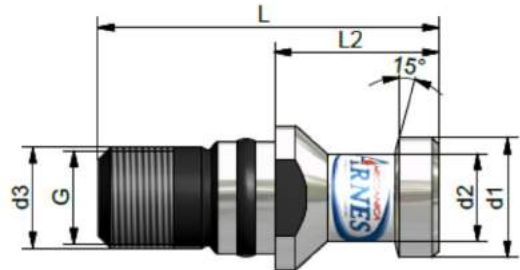


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**TENONI PER MANDRINI**  
**TULLSTUDS FOR CHUCKS**  
**TIRANTES PARA MANDRIL**

**TENONI PER CODOLO DIN 69871/A**  
**TULLSTUDS FOR TANG DIN 69871/A**  
**TIRANTES PARA MANGO DIN 69871/A**

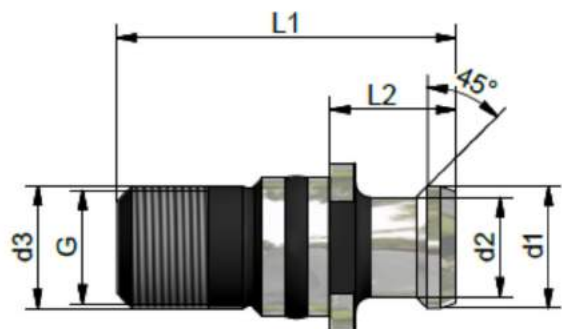
Art. 4272



ART	Norma Regulation	G	d1 mm	d2 mm	d3 mm	L1 mm	L2 mm	Per grandezza coni For cone size
4272 / 3015	DIN 69872/A	M 12	12	8	13	44	24	ISO 30
4272 / 4015		M 16	19	14	17	54	26	ISO 40
4272 / 4515		M 20	23	17	21	65	30	ISO 45
4272 / 5015		M 24	28	21	25	74	34	ISO 50

**TENONI PER CODOLO ISO 7388 B**  
**TULLSTUD FOR TANG ISO 7388 B**  
**TIRANTES PARA MANGO ISO 7388 B**

Art. 4288



ART	Norma Regulation	G	d1 mm	d2 mm	d3 mm	L1 mm	L2 mm	Per grandezza coni For cone size
4288 / 3045	ISO 7388/B	M 12	13,35	9,30	13	34	11,80	ISO 30
4288 / 4045		M 16	18,95	12,95	17	44,50	16,40	ISO 40
4288 / 4545		M 20	24,05	16,30	21	56	20,95	ISO 45
4288 / 5045		M 24	29,10	19,60	25	65,50	25,55	ISO 50



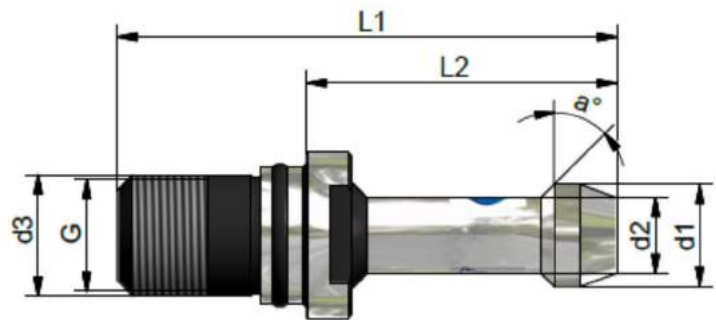
**TENONI PER MANDRINI  
TULLSTUDS FOR CHUCKS  
TIRANTES PARA MANDRIL**

**TENONI PER CODOLO MAS – BT 403**

**TULLSTUDS FOR TANG MAS – BT 403**

**TIRANTES PARA MANGO MAS – BT 403**

Art. 4300



ART	Norma Regulation	G	d1 mm	d2 mm	d3 mm	L1 mm	L2 mm	a°	Per grandezza coni For cone size
4300 / 3045	BT – MAS - I	M 12	11	7	12,5	43	23	45°	ISO 30
4300 / 3050	BT – MAS - II	M 12	11	7	12,5	43	23	30°	ISO 30
4300 / 4030	BT – MAS - I	M 16	15	10	17	60	35	30°	ISO 40
4300 / 4045	BT – MAS - II	M 16	15	10	17	60	35	45°	ISO 40
4300 / 4545	BT – MAS - I	M 20	19	14	21	70	40	45°	ISO 45
4300 / 4550	BT – MAS - II	M 20	19	14	21	70	40	30°	ISO 45
4300 / 5030	BT – MAS - I	M 24	23	17	25	85	45	45°	ISO 50
4300 / 5045	BT – MAS - II	M 24	23	17	25	85	45	30°	ISO 50

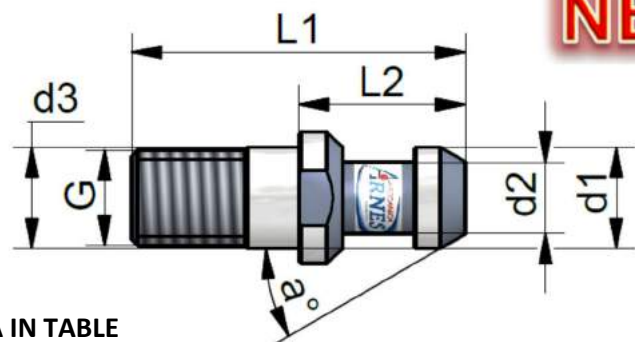
**PER CODOLI NON PRESENTI A CATALOGO  
TULLSTUDS FOR THESE NOT A CATALOG**

**SI ESEGUONO CODOLI A RICHIESTA SU MISURA**

**TULLSTUDS ARE AVAILABLE ON REQUEST TO MEASURE**

**ESTA DISPONIBLE MANGOS A SOLICITAR**

**NEW**

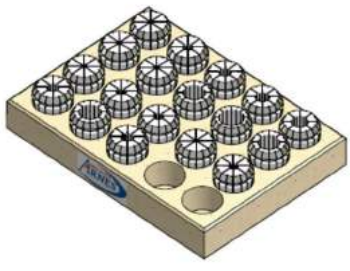


INSERIRE I DATI NELLA TABELLA – INSERT THE DATA IN TABLE

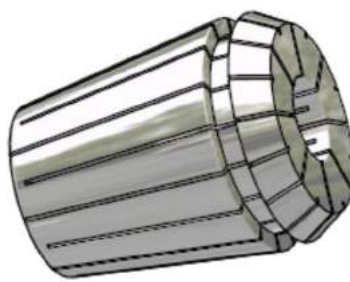
AND SEND BY E-MAIL : [info@meccanicarnes.com](mailto:info@meccanicarnes.com)

Quantità Number	Norma Regulation	G	d1 mm	d2 mm	d3 mm	L1 mm	L2 mm	a°	Per grandezza coni For cone size
_____	_____	M ____	_____	_____	_____	_____	_____	_____	_____
_____	_____	M ____	_____	_____	_____	_____	_____	_____	_____

**KIT PINZE ER MULTITAGLIO****ER COLLETS COMPLETE SET****KIT PARA PINZA ER**

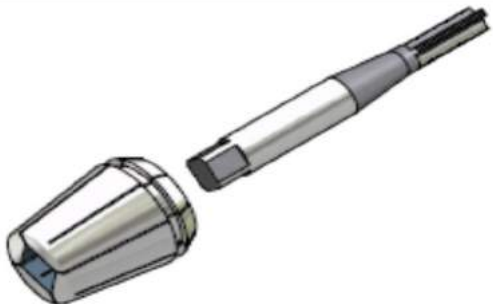
	ART	∅
	KIT ER 11 ( 13 PZ )	1,0 ÷ 7,0
	KIT ER 16 ( 12 PZ )	3,0 ÷ 10,0
	KIT ER 20 ( 12 PZ )	3,0 ÷ 13,0
	KIT ER 25 ( 15 PZ )	3,0 ÷ 16,0
	KIT ER 32 ( 18 PZ )	3,0 ÷ 20,0
	KIT ER 40 ( 23 PZ )	5,0 ÷ 30,0
	KIT ER 50 ( 12 PZ )	6,0 ÷ 34,0

**PINZE ER MULTI TAGLIO DI PRECISIONE DIN 6499****Art. ER****PRECISION ER COLLETS****PINZA ER MULTI CORTE DI PRECISIÓN DIN 6499**

	ART	∅
	ER 11	1,0 ÷ 7,0
	ER 16	1,0 ÷ 10,0
	ER 20	1,0 ÷ 13,0
	ER 25	1,0 ÷ 16,0
	ER 32	2,0 ÷ 20,0
	ER 40	3,0 ÷ 30,0
	ER 50	6,0 ÷ 34,0

\*A richiesta si forniscono diametri speciali  
 \*By request, we can provide special diameters \*bajo petición proporcionará diámetro especial

**PINZE ER MULTI TAGLIO DIN 6499/B CON QUADRO PER MASCHIATURA****Art. ER Q****ER TAPPING COLLETS WITH SQUARE****PINZA ER MULTI CORTE DIN 6499/B CON TABLERO PARA MACHO**

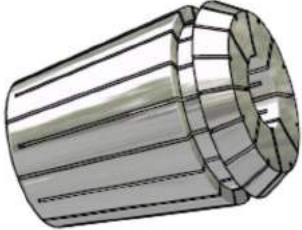
	ART	∅
	ER Q 16	3,5 ÷ 8,0
	ER Q 20	3,5 ÷ 10,0
	ER Q 25	3,5 ÷ 12,0
	ER Q 32	4,0 ÷ 16,0
	ER Q 40	8,0 ÷ 20,0

**PINZE ER MULTI TAGLIO EXTRA PRECISE DIN 6499**

**Art. ER XP**

**HIGHT PRECISION ER COLLETS**

**PINZA ER MULTI CORTE EXTRA PRECISA**

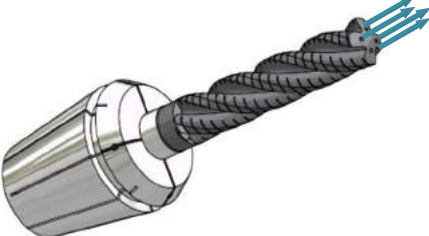
	<b>ART</b>	<b>∅</b>
	ER 11 XP	1,0 ÷ 7,0
	ER 16 XP	1,0 ÷ 10,0
	ER 20 XP	1,0 ÷ 13,0
	ER 25 XP	1,0 ÷ 16,0
	ER 32 XP	3,0 ÷ 20,0
	ER 40 XP	4,0 ÷ 26,0

**PINZE ER MULTI TAGLIO DI PRECISIONE A TENUTA STAGNA**

**Art. ER TS**

**WATERTIGHT ER COLLETS OF PRECISION**

**PINZA ER MULTI CORTE A GUARNICIÓN SELLADO**

	<b>ART</b>	<b>∅</b>
	ER 11 TS	3,0 ÷ 7,0
	ER 16 TS	3,0 ÷ 10,0
	ER 20 TS	3,0 ÷ 13,0
	ER 25 TS	3,0 ÷ 16,0
	ER 32 TS	3,0 ÷ 20,0
	ER 40 TS	4,0 ÷ 26,0

**NOTE:**

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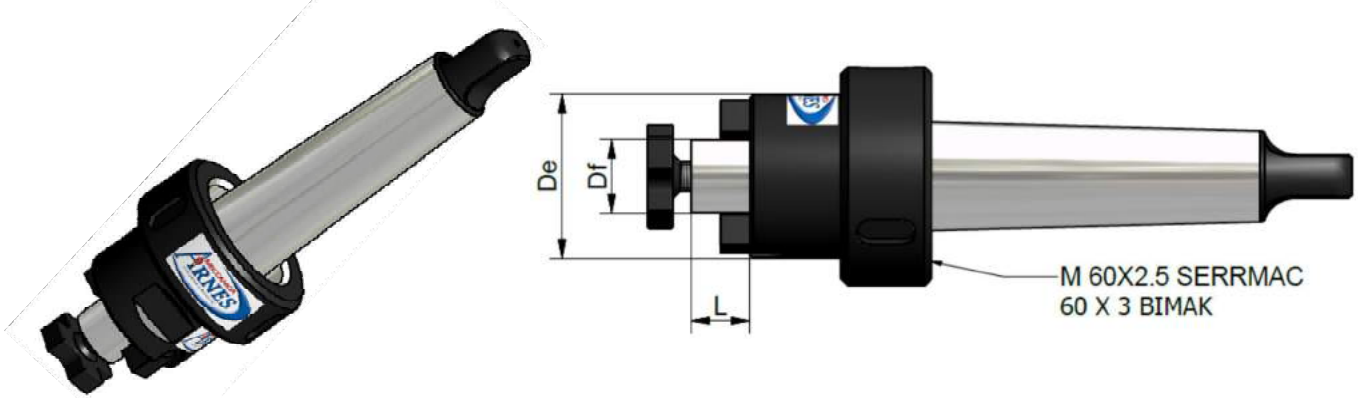
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## ART. CM4 FAMUP - BIMAK

### PORTA FRESE TIPO SERRMAC RAG – TIPO BIMAK ER COLLET CHUCKS SERRMAC RAG – BIMAK TYPE

Art. CM 4 RAG

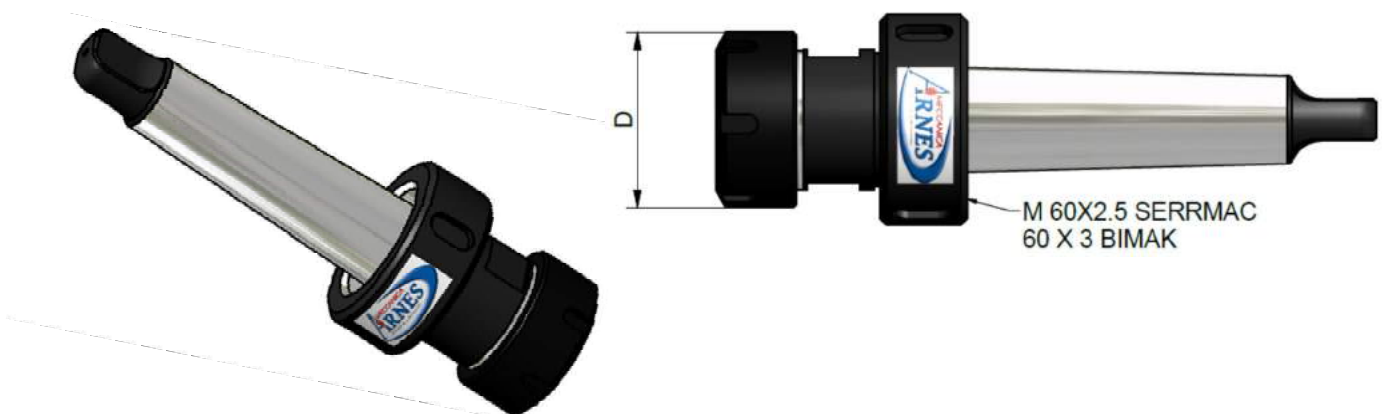


ART	De	Df	L
CM 4 RAG DF 16	32	16	17
CM 4 RAG DF 22	40	22	19

- \* si forniscono, a richiesta, ghiera con filetti speciali per altri trapani
- \* will provide on request, rings with special threads for other drilling
- \* será facilitar, previa solicitud, los anillos con temas especiales para la perforación de otros

### PORTA PINZE ER TIPO SERRMAC RAG - BIMAK ER COLLET CHUCKS SERRMAC RAG – BIMAK TYPE

Art. CM 4 RAG



ART	D	Cap. Ø
CM 4 ER 32 RAG	50	2 ÷ 20

- \* si fornisco, a richiesta, ghiera con filetti speciali per altri trapani
- \* will provide on request, rings with special threads for other drilling
- \* será facilitar, previa solicitud, los anillos con temas especiales para la perforación de otros

## NOTE:

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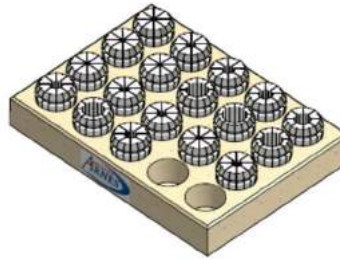
# KIT SERIE COMPLETA

CASSETTE CON SERIE COMPLETA DI PINZE ER MANDRINO E CHIAVE  
ESTUCHE PINZAS ELÁSTICAS, MANDRIL PORTA PINZA Y LLAVE

ART

KIT CM4 ER 32 RAG + 18 ER 32

- \* si fornisco, a richiesta, ghiera con filetti speciali per altri trapani
- \* will provide on request, rings with special threads for other drilling
- \* será facilitar, previa solicitud, los anillos con temas especiales para la perforación de otros



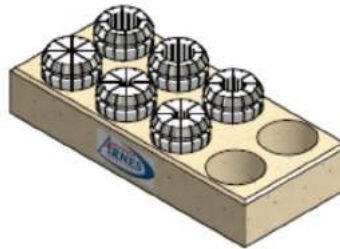
# KIT SERIE RIDOTTA

CASSETTE CON SERIE RIDOTTA DI PINZE ER MANDRINO E CHIAVE  
ESTUCHE PINZAS ELÁSTICAS REDUCIDO, MANDRIL PORTA PINZA Y LLAVE

ART

KIT CM4 ER 32 RAG + 6 ER 32

- \* si fornisco, a richiesta, ghiera con filetti speciali per altri trapani
- \* will provide on request, rings with special threads for other drilling
- \* será facilitar, previa solicitud, los anillos con temas especiales para la perforación de otros



## NOTE:

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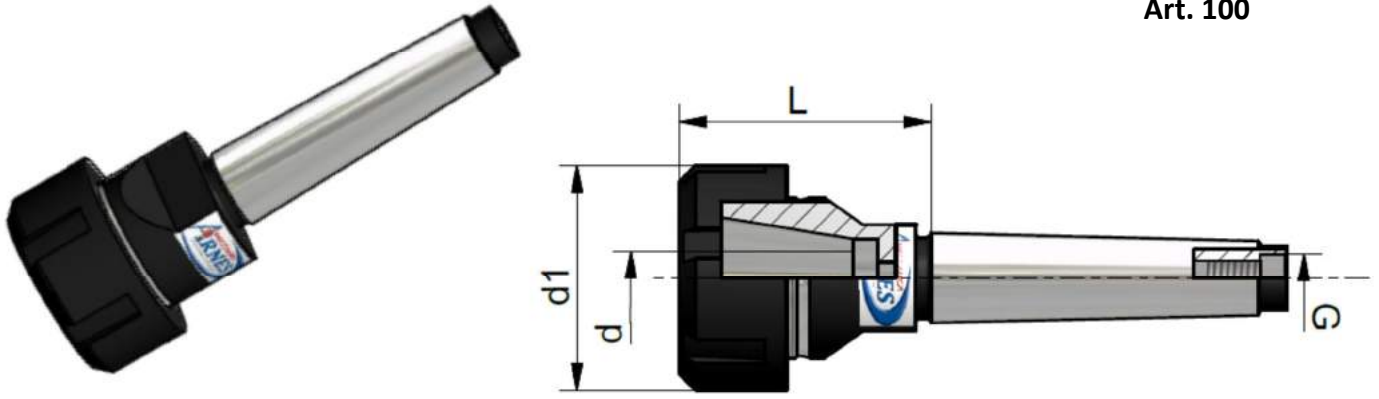
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**MANDRINI PORTA PINZE**  
**PINCERS HOLDER CHUCKS**  
**MANDRIL PORTAPINZAS**

**attacco CM ...**  
**to CM ...**  
**conexión CM ...**

**MANDRINI PORTA PINZE ER CONO MORSE CON GHIERA DI SERRAGGIO**  
**"ER" PINCERS MORSE CONE HOLDER CHUCKS WITH LOCKING COLLAR**  
**MANDRIL PORTAPINZAS ER CONO MORSE CON CASQUILLO DE SUJECIÓN**

Art. 100



ART	K	d	d <sub>1</sub>	L	Pinze Pincers	G
100 RM0/0216		1 – 10	32	42	ER	
100 RM0/0220	CM 2	2 – 13	35	50	ER	M 10
100 RM0/0225		2 – 16	42	54	ER	
* 100RM0/0316		1 – 10	22	42	ER	
* 100RM0/0320		1 – 13	28	50	ER	
	CM 3					M 12
100 RM0/0325		2 – 16	42	53	ER	
100 RM0/0332		2 – 20	50	70	ER	
100 RM0/0425		2 – 16	42	53	ER	
100 RM0/0432	CM 4	2 – 20	50	60	ER	M 16
100 RM0/0440		3 – 30	63	82	ER	
100 RM0/0532		2 – 20	50	50	ER	
100 RM0/0540	CM 5	3 - 30	63	82	ER	M 20

\*Con ghiera GM. \* With "GM" collar type mini. \* Con casquillo de sujeción "GM"

**NOTE:**

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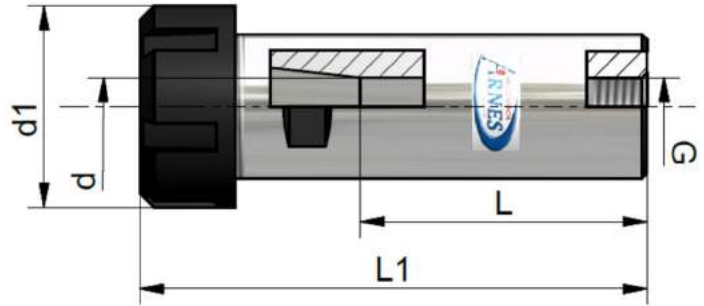
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**MANDRINI PORTA PINZE**  
**PINCERS HOLDER CHUCKS**  
**MANDRIL PORTAPINZAS**

**attacco Cil ...**  
**to Cil ...**  
**conexión Cil ...**

**MANDRINI PORTA PINZE ATTACCO CILINDRICO**  
**PINCERS HOLDER CHUCKS WITH CYLINDRICAL CONNECTION**  
**MANDRIL PORTAPINZAS CONEXIÓN CÍLINDRICO**

Art. 120 RC



ART	d2 h6	Pinze Pincers	d	d1	G	L	L1
120 RC0/2016	20	ER 16	1 – 10	28	M 12	50	80
120 RC0/2020	20	ER 20	2 – 13	34	M 12	50	92
120 RC0/2025	20	ER 25	2 – 16	42	M 12	50	96
120 RC0/2032	20	ER 32	2 – 20	50	M 12	50	104
120 RC1/2032	20	ER 32	2 – 20	50	M 12	100	154
120 RC0/2520	25	ER 20	2 – 13	34	M 16	60	86
120 RC1/2520	25	ER 20	2 – 13	34	M 16	100	136
120 RC2/2520	25	ER 20	2 – 13	34	M 16	130	186
120 RC0/2525	25	ER 25	2 – 16	42	M 16	50	96
120 RC1/2525	25	ER 25	2 – 16	42	M 16	100	146
120 RC0/2532	25	ER 32	2 – 20	50	M 16	50	104
120 RC0/2540	25	ER 40	3 – 30	63	M 16	50	110
120 RC0/3225	32	ER 25	2 – 16	42	M 18	70	91
120 RC0/3232	32	ER 32	2 – 20	50	M 18	50	98
120 RC0/3240	32	ER 40	3 – 3	63	M 18	50	110
120 RC0/4032	40	ER 32	2 – 20	50	M 22	70	121
120 RC0/4040	40	ER 40	3 - 30	63	M 22	50	130

**NOTE:**

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**MANDRINI PORTA PINZE**

**attacco Cil ...**

**PINCERS HOLDER CHUCKS**

**to Cil ...**

**MANDRIL PORTAPINZAS**

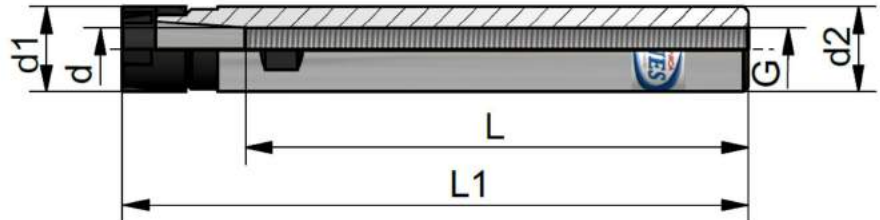
**conexión Cil ...**

**MANDRINI PORTA PINZE ATTACCO CILINDRICO PROLUNGATO**

**HOLDER - PINCERS CHUCKS WITH PROLOGUED CYLINDRICAL CONNECTION**

**MANDRIL PORTAPINZAS CONEXIÓN CÍLINDRICO PROLONGADO**

**Art. 130 RC**



ART	d2 h6	Pinze Pincers	d	d1	G	L	L1
130 RC0/1611	16	ER 11	1 - 7	16	M 6	40	72
130 RC1/1611	16	ER 11	1 - 7	16	M 8	100	132
130 RC2/1611	16	ER 11	1 - 7	16	M 8	160	182
130 RC0/1616	16	ER 16	1 - 10	22	M 8	80	121
130 RC1/1616	16	ER 16	1 - 10	22	M 8	160	166
130 RC0/2016	20	ER 16	1 - 10	22	M 12	100	130
130 RC1/2016	20	ER 16	1 - 10	22	M 12	160	180
130 RC0/2020	20	ER 20	2 - 13	28	M 12	100	142
130 RC1/2020	20	ER 20	2 - 13	28	M 12	160	192
130 RC0/2516	25	ER 16	1 - 10	22	M 14	60	101
130 RC1/2516	25	ER 16	1 - 10	22	M 14	100	141
130 RC0/2520	25	ER 20	2 - 13	25	M 14	100	141
130 RC1/2520	25	ER 20	2 - 13	28	M 14	160	191

**NOTE:**

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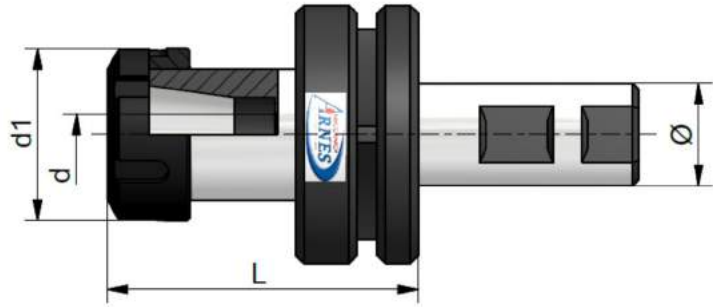


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ZERO TOP PORTA PINZA ER con ATTACCO WELDON CIL  
 ZERO TOP HOLDER PINCERS ER WHIT WELDON CIL CONNECTION  
 ZERO TOP PORTAPINZAS ER CON CONEXIÓN WELDON CIL

**NEW**



ART	Ø	d	d1	L
FL0310 W020	20	1 - 13	35	54
FL0820 W025	25	2 - 16	45	70
FL1330 W025	25	3 - 20	50	80

**NOTE:**

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**GHIERE DI SERRAGGIO  
LOCKING COLLARS  
CASQUILLO DE SUJECIÓN**

**ART. GE – GS - GM**

**GHIERE DI SERRAGGIO "GE" Art. GE**

"GE" LOCKING COLLARS

CASQUILLO DE SUJECIÓN "GE"

ART	Mod.	d	L	G
GE / 011	GE / ER 11	19	11,3	M 14x0,75
GE / 016	GE / ER 16	28	17	M 22x1,5
GE / 020	GE / ER 20	34	19	M 25x1,5

**GHIERE DI SERRAGGIO "GS" Art. GS**

"GS" LOCKING COLLARS

CASQUILLO DE SUJECIÓN "GS"

ART	Mod.	d	L	G
GS / 016	GT / ER 16	32	17,5	M 22x1,5
GS / 020	GT / ER 20	35	19	M 25x1,5
GS / 025	GT / ER 25	42	20	M 32x1,5
GS / 032	GT / ER 32	50	22,3	M 40x1,5
GS / 040	GT / ER 40	63	25,3	M 50x1,5

**GHIERE TIPO MINI "GM" Art. GM**

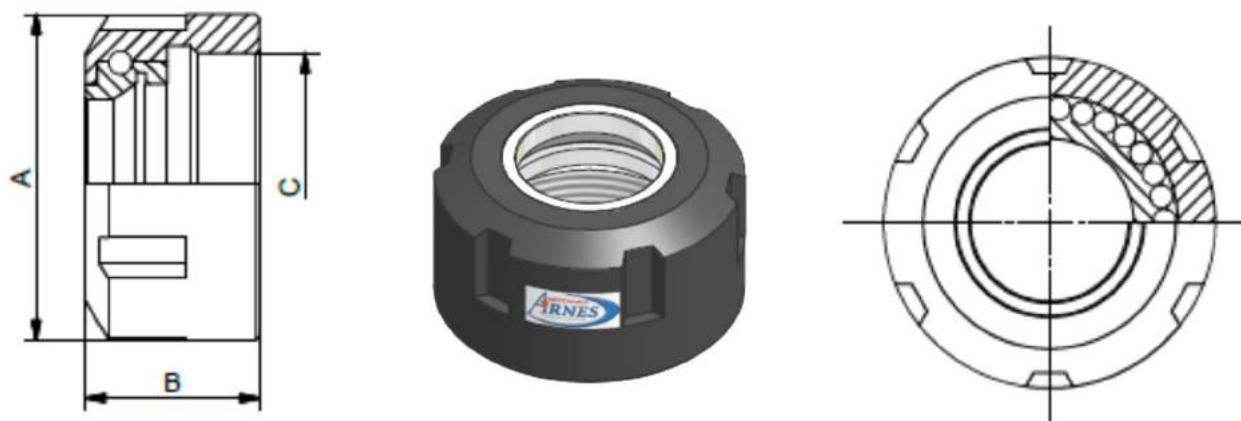
"GM" COLLARS TYPE MINI

CASQUILLO DE SUJECIÓN "GM"

ART	Mod.	d	L	G
GM / 008	GM / ER 08	12	10,8	M 10x0,75
GM / 011	GM / ER 11	16	11,3	M 13x0,75
GM / 016	GM / ER 16	22	17	M 19x1
GM / 020	GM / ER 20	28	19	M 24x1
GM / 025	GM / ER 25	35	20	M 30x1

## ART. GC

GHIERE A CIRCOLAZIONE DI SFERE DIN 6499 TIPO "GC"  
DIN 6499 TYPE "GC" BALLS CIRCULATION COLLARS  
CASQUILLO CIRCULACIÓN DE ESFERAS



ART		A	B	C	Pinze - Pincers
GC 16	1016	29	19,5	22x1,5	ER 16
GC 20	1020	34	21,0	25x1,5	ER 20
GC 25	1025	42	22,5	32x1,5	ER 25
GC 32	1032	50	26,0	40x1,5	ER 32
GC 40	1040	63	29,0	50x1,5	ER 40
GC 50	1050	78	40,0	64x1,5	ER 50
GC 60	1060	83	36,0	70x1,5	ER 60

### Caratteristiche e vantaggi:

Aumenta sensibilmente la capacità di serraggio della pinza. Elimina l'attrito tra ghiera e pinza. È intercambiabile con le normali ghiere tipo "GE" e "GS".

### Advantageous and characteristics:

It increase locking capacity of the pincer sensitively. It eliminates friction between collar and pincer. It is interchangeable with normal collars type "GE" and "GS",

### Características e beneficios:

Aumentar la capacidad sujeción de pinza. Elimina la fricción entre casquillo y pinza. Intercambiabilidad con casquillo "GE" y "GS".

**CHIAVI DI SICUREZZA ANTINFORTUNISTICA PER GHIERE "GS"  
SAFETY ANTI-ACCIDENT SPANNERS FOR "GS" COLLARS  
LLAVE DE SEGURIDAD PARA CASQUILLO "GS"**

Art. SGS

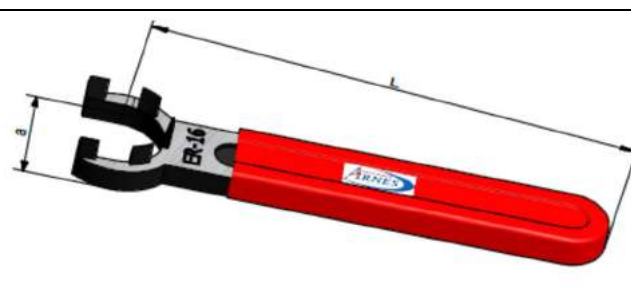
ART	Mod.	a	L
SGS / 2016	ER 16	50	155
SGS / 2020	ER 20	55	175
SGS / 2025	ER 25	65	215
SGS / 2032	ER 32	75	245
SGS / 2040	ER 40	90	285
SGS / 2050	ER 50	110	345



**CHIAVI DI SICUREZZA ANTINFORTUNISTICA PER GHIERE "GM"  
SAFETY ANTI-ACCIDENT SPANNERS FOR "GM" COLLARS  
LLAVE DE SEGURIDAD PARA CASQUILLO "GM"**

Art. SGM

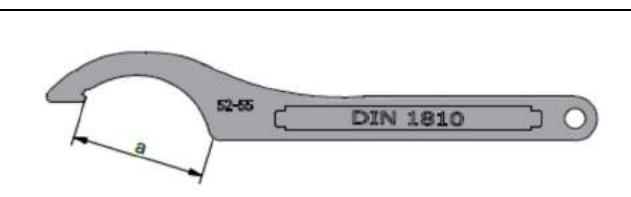
ART	Mod.	a	L
SGM / 2008	ER 8 M	12,4	65
SGM / 2011	ER 11 M	16,8	85
SGM / 2016	ER 16 M	22,5	105
SGM / 2020	ER 20 M	29,0	115
SGM / 2025	ER 25 M	36,0	125



**CHIAVI A SETTORE PER GHIERE  
SECTOR SPANNERS FOR COLLARS  
LLAVE A SECTOR PARA CASQUILLO**

Art. SGA

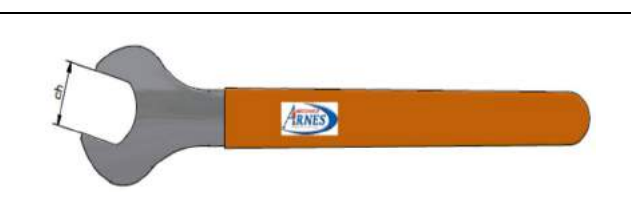
ART	a
SGA / 0020	a Ø 30 – 32
SGA / 0025	a Ø 40 – 42
SGA / 2032	a Ø 52 - 55



**CHIAVI PER GHIERE  
SPANNERS FOR COLLARS  
LLAVE PARA CASQUILLO HEXAGON**

Art. SGE

ART	CH
SGE 11	CH 17
SGE 16	CH 25
SGE 20	CH 30



## CENTRATORE TRIDIMENSIONALE LUMINOSO E SONORO

### TRIDIMENSIONAL ELECTRONIC POSITION DETECTOR

### CENTRADOR TRIDIMENSIONAL LUMINOSIDAD Y SONIDO

Art. Centratore 3D



#### CARATTERISTICHE:

Il centratore è uno strumento elettronico utilizzato per azzerare delle distanze oppure dei punti. Il gambo di misura è diametro 6 mm  $\pm$  0,005. Al momento del contatto si accende una luce rossa e parte un segnale acustico ( bip bip).

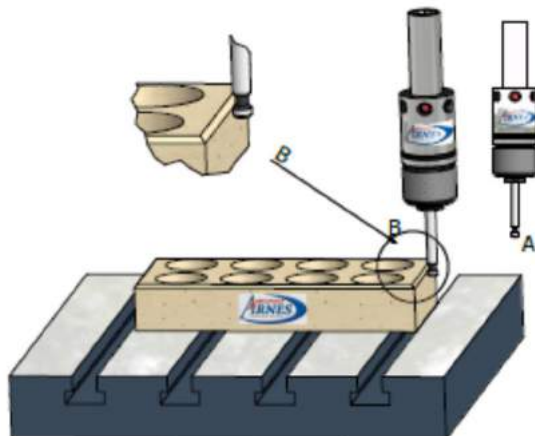
Precisione al contatto mm 0,005. Il gambo ha uno scostamento di sicurezza di circa 4 mm.

Al momento del contatto si accende una luce rossa e parte un segnale sonoro. Il gambo ha uno scostamento di sicurezza di circa 4 mm.

#### CHARACTERISTICS:

The balacing is an electrical instruments wed to clear distance or points. The shank measures 6 mm $\pm$ 0,005 of diameter. At the moment of contact a red light lights up and an acoustic signal (bip bip) starts. Precision at the contact 0,005 mm. The shank has a safety shifting about 4 mm.

The shank gauges 6 mm of diameter. At the moment of contact a red light lights up and an acoustic signal starts. The shank has a safety shifting of 4 mm about.



#### COME AZZERARE UN PUNTO:

Montare il centratore sul mandrino e spostarsi dal punto di partenza "A" fino al punto di contatto "B". Al contatto fisico dello strumento con il pezzo si accende il LED (luce rossa) ed un segnale acustico, indicano che la posizione del punto "B" è distante dal centro del tastatore 3 mm  $\pm$  0,005.

#### HOW TO CLEAR A POINT:

Assemble the balacing on chuck and move from start point "A" to contact point "B".

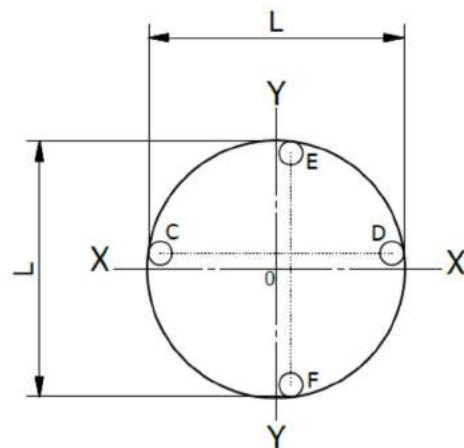
At the physical contact of the instrument whit the piece, a led lights up (red light) and an acoustic starts. The light and the signal indicate that the position of "B" point is distant from the testator centre 3 mm $\pm$ 0,005.

#### COME CENTRARE CIRCONFERENZE INTERNE ED ESTERNE:

Posizionate circa il centratore nel centro della circonferenza, portarlo a contatto con un punto della circonferenza "C". Leggete la posizione e poi spostare lo strumento in direzione opposta, quindi leggere la distanza fra il punto C ed il punto D in cui si è nuovamente acceso il LED (luce rossa) ed il segnale acustico. La metà della distanza misurata "L" è il centro dell'asse X. Ripetendo la stessa operazione sull'altro asse Y si ottiene il centro "O" della circonferenza.

#### HOW TO CENTRE INTERNAL AND EXTERNAL CIRCLES:

Position the balacing about in the centre of circle, drive it to contact a "C" circle point. Read the position, then move the instrument to the opposite direction. Now read the distance from C point and D point, where led (red light) lights up and acoustic signal starts again. Half distance, gauged "L", is axis "X" centre. Repeating the same operation on the other axis "Y", you obtain "O" centre of circle.



**BUSSOLE DI RIDUZIONE**

**ART. BTB ...**

**REDUCTION OF BUSHING**

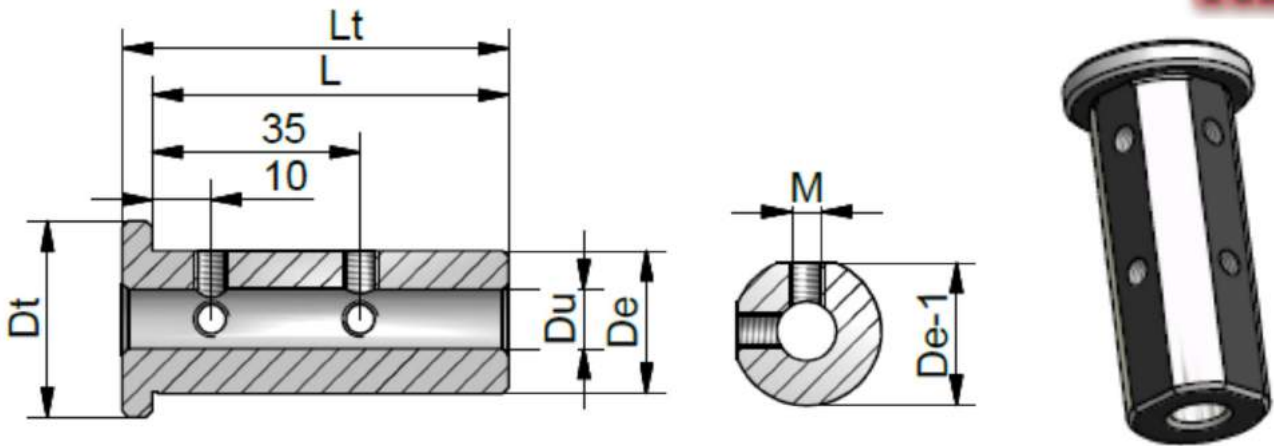
**ART. BTB ...**

**BUJE DI REDUCCIÓN**

**ART. BTB ...**

**BUSSOLE UNIVERSALI CON GRANI E BATTUTA**  
**UNIVERSAL BUSHING WITH GRAIN AND RABBERT**  
**BUJE UNIVERSAL CON GRANOS Y COMPÁS**

**NEW**



ART.	De	Du	Dt	M	De-1	L	Lt
BTB250660	25	6	33	6	24	60	65
BTB250860	25	8	33	6	24	60	65
BTB251060	25	10	33	6	24	60	65
BTB251260	25	12	33	8	24	60	65
BTB241460	25	14	33	8	24	60	65
BTB320670	32	6	40	6	31	70	75
BTB320870	32	8	40	6	31	70	75
BTB321070	32	10	40	6	31	70	75
BTB321270	32	12	40	8	31	70	75
BTB321470	32	14	40	8	31	70	75
BTB321670	32	16	40	10	31	70	75
BTB321870	32	18	40	10	31	70	75
BTB322070	32	20	40	10	31	70	75
BTB400680	40	6	48	6	39	80	85
BTB400880	40	8	48	6	39	80	85
BTB401080	40	10	48	6	39	80	85
BTB401280	40	12	48	8	39	80	85
BTB401480	40	14	48	8	39	80	85
BTB401680	40	16	48	10	39	80	85
BTB401880	40	18	48	10	39	80	85
BTB402080	40	20	48	10	39	80	85
BTB402580	40	25	48	10	39	80	85

**BUSSOLE DI RIDUZIONE SENZA BATTUTA**

**ART. BTL....**

**REDUCTION OF BUSHING WITHOUT RABBERT**

**ART. BTL....**

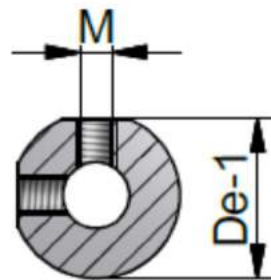
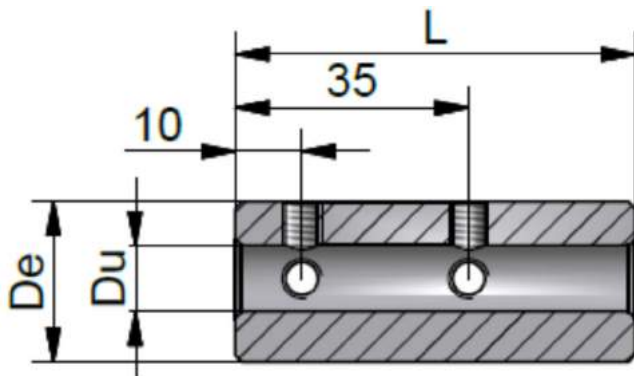
**BUJE DI REDUCCIÓN**

**ART. BTL....**

**BUSSOLE UNIVERSALI CON GRANI E SENZA BATTUTA**

**UNIVERSAL BUSHING WITH GRAIN AND WITHOUT RABBERT**

**BUJE UNIVERSAL CON GRANOS Y SIN COMPÁS**



**NEW**



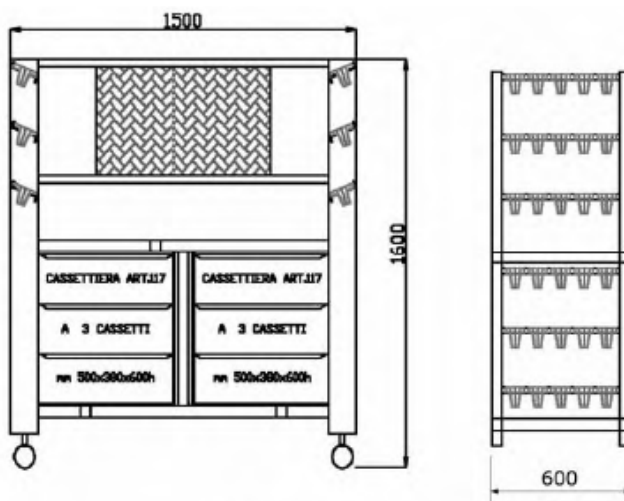
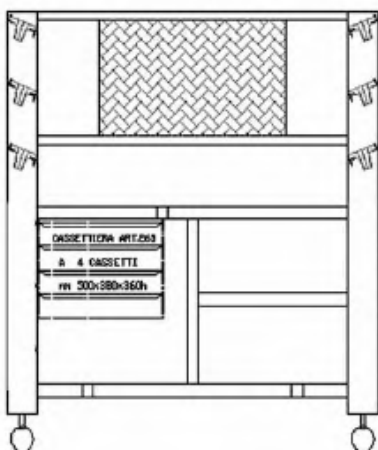
ART.	De	Du	M	De-1	L
BTL250660	25	6	6	24	60
BTL250860	25	8	6	24	60
BTL251060	25	10	6	24	60
BTL251260	25	12	8	24	60
BTL251460	25	14	8	24	60
BTL320670	32	6	6	31	70
BTL320870	32	8	6	31	70
BTL321070	32	10	6	31	70
BTL321270	32	12	8	31	70
BTL321470	32	14	8	31	70
BTL321670	32	16	10	31	70
BTL321870	32	18	10	31	70
BTL322070	32	20	10	31	70
BTL400680	40	6	6	39	80
BTL400880	40	8	6	39	80
BTL401080	40	10	6	39	80
BTL401280	40	12	8	39	80
BTL401480	40	14	8	39	80
BTL401680	40	16	10	39	80
BTL401880	40	18	10	39	80
BTL402080	40	20	10	39	80
BTL402580	40	25	10	39	80

## BANCO UNIVERSALE

BANCO UNIVERSALE BORDO MACCHINA UTENSILE

UNIVERSAL BENCH FOR TOOLS MACHINE

BANCO UNIVERSAL CONSEJO DE LA MAQUINA HERRAMIENTA



### COMPOSIZIONE STANDARD

Struttura in profilo di alluminio

n° 1 cassettera a 4 cassette

n° 30 boccole ISO 40 porta cono

n° 1 pannello porta chiavi

n° 1 mensola porta strumenti

POSSIBILE VERSIONE PER MONTAGGIO

VERSIONI SPECIALI A RICHIESTA

### STANDARD COMPOSITION

Structures in aluminium profile

n° 1 cassettera with 4 drawers

n° 30 axels ISO 40 for cone

n° 1 pannel brings keys

n° 1 shelf brings tools

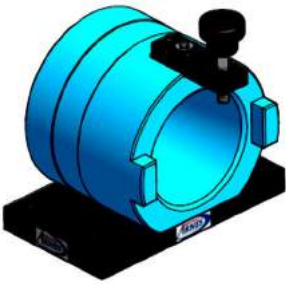
POSSIBLE VERSION FOR ASSEMBLAGE

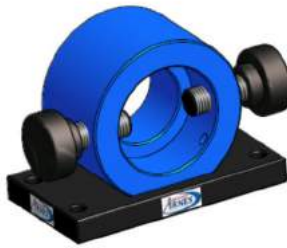
SPECIAL VERSIONS BY REQUEST



**SMONTACONO UNIVERSALE  
UNIVERSAL FIXTURE  
UNIVERSAL SMONTACONO**

**ISO - HSK  
ISO – HSK  
ISO – HSK**

ART.	ISO
SMONTACONO ISO 30	
SMONTACONO ISO 40	
SMONTACONO ISO 50	

ART.	HSK
SMONTACONO HSK 32	
SMONTACONO HSK 40	
SMONTACONO ISO 50	
SMONTACONO HSK 63	
SMONTACONO HSK 80	
SMONTACONO HSK 100	

ART. SMONTACONO A RULLI	
SMHSK 50	
SMHSK 63	
SMISO 30	
SMISO 40	

**NOTE:**

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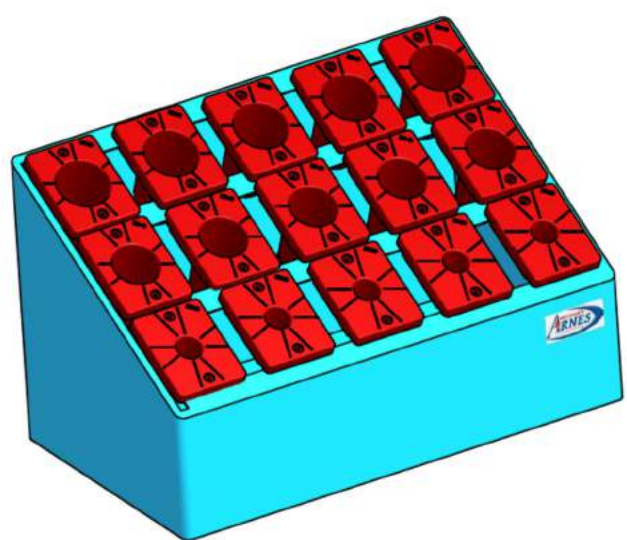


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**SUPPORTO PORTA MANDRINI COMPLETO DI 15 BOCCOLE**  
**TOOLS STORES WITH 15 AXELS**  
**SOPORTE PORTA MANDRIL COMPLETE 15 CASQUILLO**

Art. BX 51      mm 550 x 350 x330 h

Possibile con Boccole      HSK 50  
 Possibil with axels      HSK 63  
    ISO 30  
    ISO 40  
    ISO 50



**BOCCOLE**  
**AXELS**  
**CASQUILLO**

BOCCOLE AXELS CASQUILLO	
<b>ART</b>	
ISO 30	
ISO 40	
ISO 50	
HSK 50	
HSK 63	

**NOTE:**

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# ATTREZZATURE SPECIALI ESEGUITE A RICHIESTA

## EQUIPMENT BY REQUEST

## DISPONIBILE BAJO PEDIDO



**Alcune applicazioni per reparti di attrezzera**



Tel. + 39 0 522 370945

Fax + 39 0 522 374886

[www.meccanicarnes.com](http://www.meccanicarnes.com)

e\_mail: [info@meccanicarnes.com](mailto:info@meccanicarnes.com)



**Si realizzano applicazioni**  
**su Vostre specifiche**



**Alcune applicazioni per reparti di collaudo**



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**VIA PRATI VECCHI 21/H - 42025 CAVRIAGO (RE) ITALY**  
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