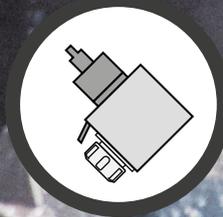




- BIGLIA
- BMT
- DMG MORI
- GOODWAY
- HAAS
- MAZAK
- MIYANO
- NAKAMURA
- OKUMA
- SPINNER
- TAKISAWA JAPAN
- TAKISAWA TAIWAN
- TSUGAMI



5

*Upgrade your lathe
and boost productivity!*

VDI e BMT DRIVEN TOOLS

Portautensili motorizzati / Driven Tools

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Novità / News

Motorizzati / Driven tools



Biglia lathes

Nuova gamma di motorizzati BMT44 ad alte prestazioni
New high performance range BMT44



Goodway lathes

Nuova gamma di motorizzati G1 e G4 per torni GOODWAY
New range G1 and G4 Driven tools for Goodway lathes



Mazak lathes

Nuovi modelli QTS e HQ
New driven tools for QTS and HQ lathes



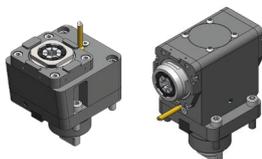
Okuma lathes

Nuove ampie gamme di motorizzati per torni OKUMA VDI40 - BMT55
New wide ranges of Driven tools for OKUMA VDI40 and BMT65 lathes



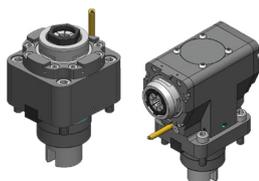
Spinner lathes

Nuove ampie gamme di motorizzati per torni SPINNER VDI30 - BMT45
New wide ranges of Driven tools for SPINNER VDI30 and BMT45 lathes



Takisawa Japan lathes

Nuove gamme per torni TAKISAWA TAIWAN & TAKISAWA JAPAN
New range for TAKISAWA TAIWAN & TAKISAWA JAPAN



Takisawa Taiwan lathes

Nuova gamma di motorizzati per torni TAKISAWA TAIWAN lathes
New range of Driven Tools for TAKISAWA TAIWAN lathes

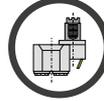
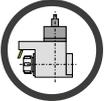
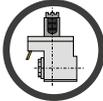


Tsugami lathes

Nuovi Codici e Modelli Disponibili
New Codes and types available

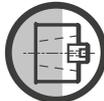
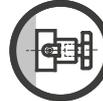
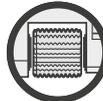
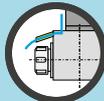
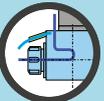
SIMBOLI TIPOLOGIE MOTORIZZATI

DRIVEN TOOLS DESIGN LOGOS

							
Assiale Axial	Assiale doppio Double Axial	Disassato Offset Axis	Disassato Doppio Double Offset Axis	Radiale Radial	Radiale Doppio Double Radial	Radiale 4 Uscite Radial 4 Outputs	Radiale 8 Uscite Radial 8 Outputs
							
Radiale Rovesciato Radial Upside Down	Arretrato Rear Offset	Arretrato Doppio Double Rear Offset	Orientabile ±90° Adjustable ±90°	Portacreatore Driven Gear Hobber			

SIMBOLOGIA DATI TECNICI

TECHNICAL DATA LOGOS

USCITA OUTPUT						
	Uscita HSK HSK output	Uscita ISO ISO output	Uscita portafresa Shell mill holder output	Uscita WELDON WELDON output	Uscita CAPTO CAPTO output	Portacreatore Driven Gear Hobber
PASSAGGIO REFRIGERANTE COOLANT						
				Refrigerante Esterno External Coolant	Refrigerante Interno Internal Coolant	Refrigerante Interno Internal Coolant
					20 / 25 / 80 100bar	ReCool NUT
USCITA OUTPUT						
			Rapporto Ratio	Rotazione uguale al mandrino Rotation same as machine spindle	Rotazione opposta al mandrino Rotation opposite as machine spindle	Rotaz. uguale ed opposta al mandrino Rotation same & opposite as machine spindle

Portautensili Motorizzati / Driven tools

VDI & BMT



Velocità / High-speed
24.000 Rpm



Internal coolant
fino a / Up to
100 Bar

Più di 1000 modelli disponibili - More than 1000 types available

USCITE MULTIPLE MULTIPLE OUTPUTS

Tutti i motorizzati, ad esclusione di quelli ad angolo variabile, possono essere forniti con doppia pinza contrapposta anche di pari grandezza. Sono stati realizzati per i modelli di tornio più recenti anche motorizzati assiali con doppia / tripla uscita frontale e radiali doppia uscita frontale.

All the driven tools, with the exception of those with adjustable angle, can be supplied with double or multiple output even of the same dimension. Multiple outputs can be opposite or with the same direction.

ALTA VELOCITÀ RATIO 1:4 HIGH SPEED RATIO 1:4

(Opzione di moltiplica del numero di giri dalla torretta del tornio da 2 a 4 volte). Su richiesta, quasi tutti i modelli di motorizzati sono fornibili con velocità di rotazione fino a 24.000 Rpm. Questa soluzione permette di adeguare il numero di giri della torretta alle velocità di taglio delle nuove tipologie di utensili in commercio. Il sistema epicicloidale (interno) consente di mantenere inalterate le dimensioni di ingombro dei vari modelli, senza quindi penalizzare in alcun modo la funzionalità della macchina.

N.B: I motorizzati standard con rapporto 1:1 hanno regime di rotazione Max. 12.000 Rpm.

All the driven tools types are available with speed until 24.000 Rpm. There is also the possibility of speed increaser from 2 to 4 times thus adapting the Rpm of the turret drive to the speed of today's cutting tools. The epicyclic speed increaser system (a system of satellite gears) is self contained in the standard head overall dimensions and guarantees the same standards of quality and reliability.

Attention: The standard rotary tools with 1:1 ratio have a Max Speed of 12.000Rpm



Radiale 8 uscite
Radial 8 outputs



Radiale doppio
Double radial



Perno eccentrico Eccentric pin

Nuovo perno di regolazione eccentrico per il posizionamento preciso ed accurato del motorizzato sulla torretta (per modelli Mazak QTN).

New eccentric regulation pin for an accurate positioning of the driven tool on the turret. (for Mazak QTN models).



Maschiatura Tapping

Per le operazioni di maschiatura, tutti i nostri motorizzati possono utilizzare pinze compensate ET-1 perfettamente intercambiabili con le normali pinze secondo norma DIN 6499. Esse consentono una compensazione assiale da 7 a 13 mm a seconda della grandezza per recuperare eventuali errori di avanzamento e per l'inversione della rotazione.

For tapping operations all driven tools can be equipped with axially compensated collets ET-1 interchangeable with the standard ER collets according to the international standard DIN 6499. They allow the tap an axial compensation from 7 to 13 mm according to their size in order to compensate any feed error and the inversion of the rotation of direction.



Cuscinetti Ball Bearings

Cuscinetti di precisione a contatto obliquo, precaricati, e lubrificati con grasso a vita.

Preloaded angular contact ball bearings precision and long life lubrication.



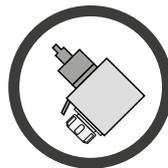
Ingranaggi Gleason Gleason Spiral bevel

Conica di ingranaggi spirodali Gleason con evolvente rettificato ottimizzato

Gleason spiral bevel gears with completely ground involute form

I portautensili motorizzati per centri di tornitura a controllo numerico consentono di eseguire lavorazioni di fresatura, foratura e maschiatura sul tornio stesso e senza ulteriori piazzamenti. Anche in questo caso Gerardi propone un'ampia gamma di modelli, adatti ad attrezzare i torni e le torrette motorizzate dei maggiori costruttori di torni a livello mondiale con un rapporto qualità/prezzo insuperabile.

Driven tools for CNC turning centres allows milling, drilling and tapping operations on the lathes without additional parts handling. Also in this case Gerardi can supply a wide range of types in order to equip the CNC lathes and turrets of the most popular builders on the market with an unbeatable price/quality ratio.



SCAN IT TO SEE



THE WEB PAGE

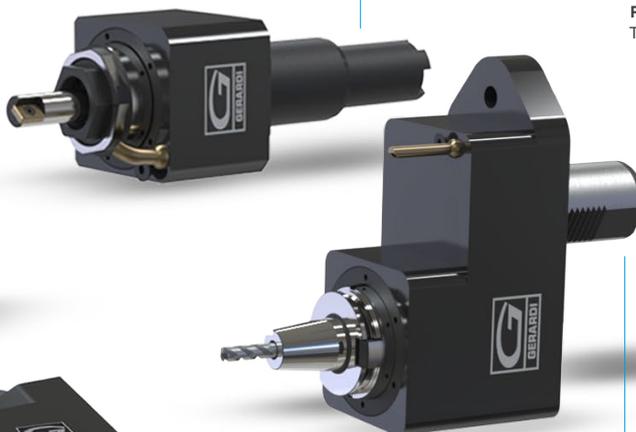
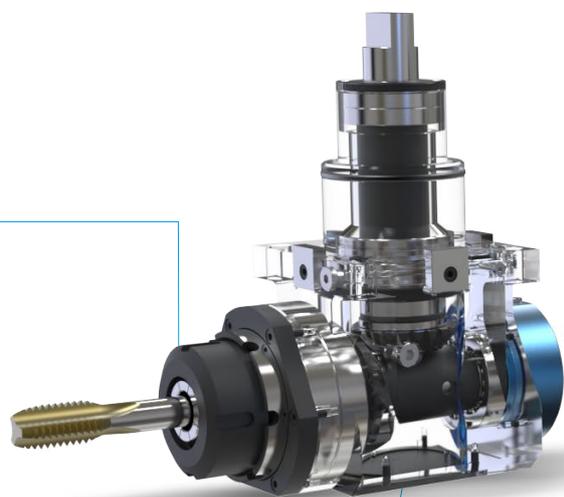


*Upgrade your lathe
and boost productivity!*



Presi di moto intercambiabile per le varie tipologie di torrette Haas
Interchangeable couplings for the different Haas turret

USCITE DISPONIBILI
AVAILABLE
OUTPUTS



PORTAFRESA
TOOLHOLDER

CAPTO

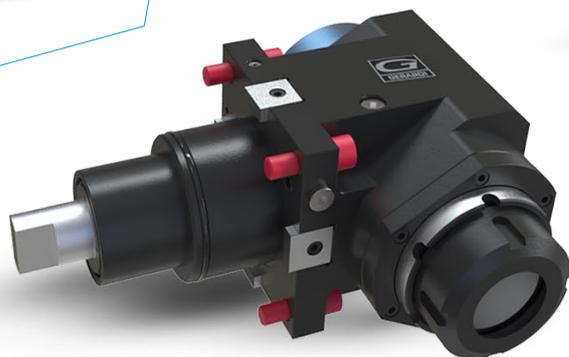
HSK

Attacco VDI
VDI attachment

WELDON

ISO

PORTACREATORE
DRIVEN GEAR
HOBBER



Attacco BMT
BMT Attachment

Esterno
External

MAX
10bar

- » Mandrino Macchina
- » Corpo Motorizzato
- » Ugello
- » Machine Spindle
- » Driven Tool Body
- » Coolant Pipe



Interno
Internal

MAX
100bar

- » Mandrino Macchina
- » Corpo Motorizzato
- » Distributore
- » Utensile
- » Machine Spindle
- » Driven Tool Body
- » Rotating Distributor
- » Tool



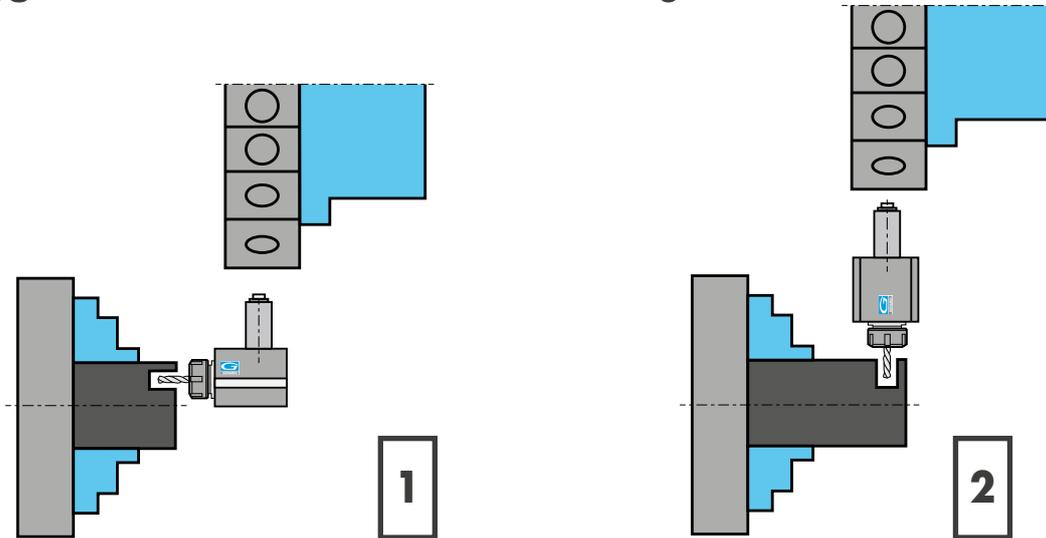
Re-Cool Nut
Ghiera Re-Cool

MAX
150bar

- » Mandrino Macchina
- » Corpo Motorizzato
- » Ghiera Re-Cool
- » Utensile
- » Machine Spindle
- » Driven Tool Body
- » Re-Cool Nut
- » Tool

DENOMINAZIONE UTENSILE
TOOL DESIGNATION

Montaggio TANGENZIALE - OD Mounting

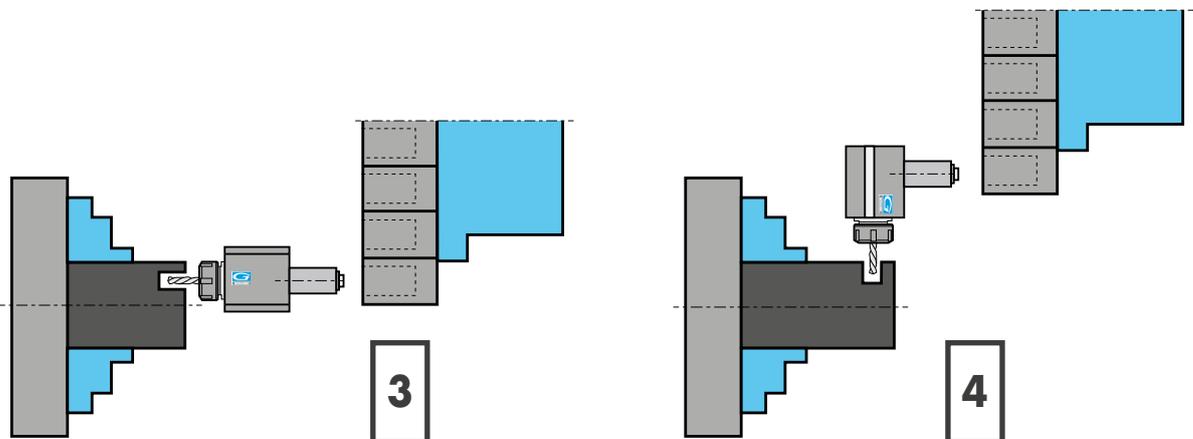


1 Motorizzato **RADIALE** per lavorazioni assiali
 RADIAL driven tool for axial machining

2 Motorizzato **ASSIALE** per lavorazioni radiali
 AXIAL driven tool heads for radial machining

5

Montaggio FRONTALE - FACE Mounting

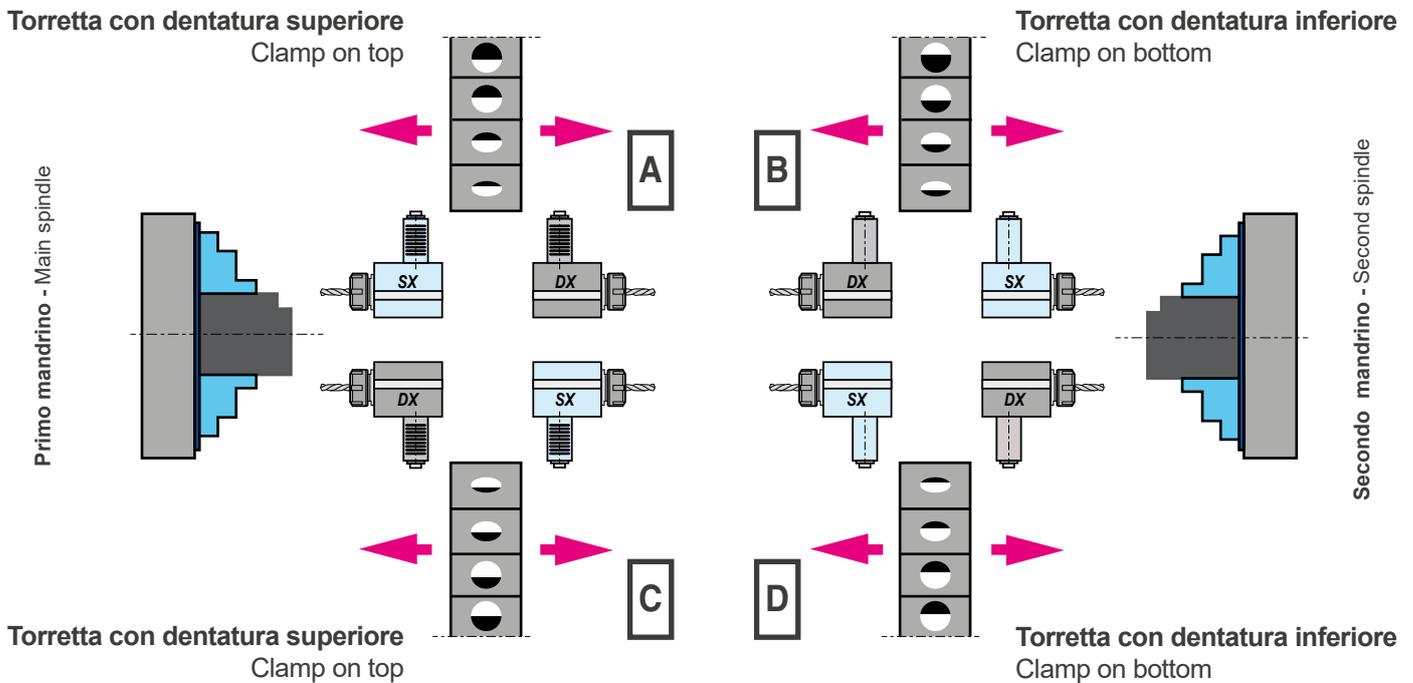


3 Motorizzato **ASSIALE** per lavorazioni assiali
 AXIAL driven tool for axial machining

4 Motorizzato **RADIALE** per lavorazioni radiali
 RADIAL driven tool heads for radial machining

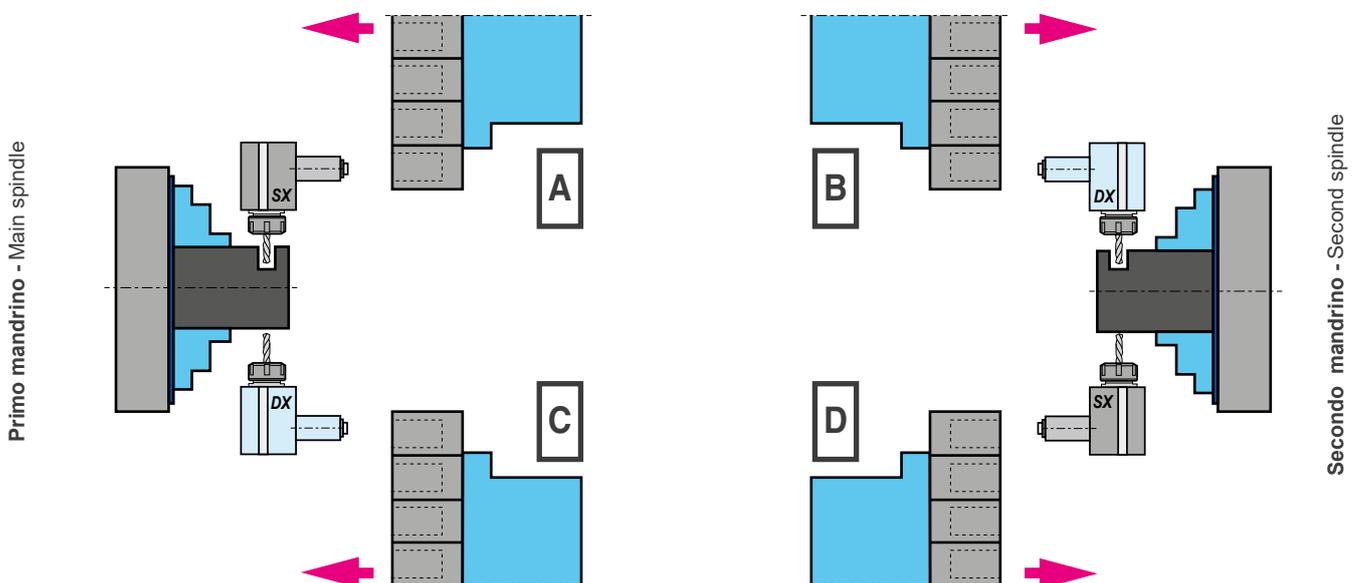
MOTORIZZATI RADIALI PER LAVORAZIONI ASSIALI RADIAL DRIVEN TOOLS FOR AXIAL MACHINING

Montaggio TANGENZIALE - OD Mounting



MOTORIZZATI RADIALI PER LAVORAZIONI RADIALI RADIAL DRIVEN TOOLS FOR RADIAL MACHINING

Montaggio FRONTALE - FACE Mounting



COMPATIBILITÀ MOTORIZZATI DRIVEN TOOLS COMPATIBILITY

In fase d'ordine specificare: **CoSTRUTTORE, MODELLO & N° POSIZIONE TORRETTA**
In case of order please specify **MACHINE BUILDER, MODEL & TURRET N°**

Costruttore Builder Brand	Torretta Turret	Modelli Macchina Lathe or turret Models	LP05 Pages
DIN5480	VDI	VDI 20, 25, 30, 40, 50, 60	
Accuway	VDI 30	UT-100 M	
Avia	VDI 30	30M	
Benzinger	VDI 20	DOLittle B2, TNC-S	
	VDI 25	TNI TCM - B4 Take 5 GO Future	
Dmg Mori	VDI 25	NZ Due, Tre, Quattro (VDI25) Sprint 50 CTX alpha VDI25	
	VDI 30	CTX 350 4A, 350 V6 (16 ST) T1 CTX 350 V6 CTX 350 V3/V4 NZ Due, Tre, Quattro CTX 2500 CTX alpha / beta CLX 350/450 V6 CTX beta VDI30 radial turret CTX alpha VDI30 radial turret Sprint 65 NZ 1500, 2000 NLX/ NL 1500,2000,2500 NEF 400 CTX beta VDI30 axial turret CTX alpha VDI30 axial turret CTV 160 CLX 350 V1/V3/V4, ecoTurn 310	
	VDI 40	TVDI40 T2 CTX beta/gamma 4A CTX beta CTX 2500 CLX 450/550/750 V6 CTX 510 CTX 450 / 510 ECOLINE CTX beta VDI40 axial turret CTX 2500 VDI40 axial turret CLX 450/550 V1/V3/V4, ecoTurn 450/510 NL/NLX 1500, 2000, 2500 Y/SY VDI40 NEF 600 CTX gamma VDI40 radial turret CTX gamma VDI40 axial turret CTX beta VDI40 radial turret CTV 200, 250, 315 linear CTV 160 VDI40	
	VDI 50	CTX gamma VDI50 radial turret CTX 750 V6 VDI50 CTX gamma VDI50 axial turret CTX beta VDI50 axial turret CLX/CTX 750 V1/ V3/V4, ecoTurn 650 CTV 400 linear	
Emco	VDI 25	Maxxturn 45 SM/SMY/G2 DIN5480 EMCOTURN 332MC DIN5480 Hyperturn 45 DIN5480 EMCOTURN E45 SM/SMY DIN5480 Hyperturn 45 (VDI25) EMCOTURN E45 SM/SMY (VDI25) EMCOTURN 332MC Maxxturn 45 M DIN5480	
	VDI 30	EMCOTURN E65 SM/SMY Maxxturn 65 SM Hyperturn 65 Vertical VT 160 Maxxturn 65 M Hyperturn* EMCOTURN E65 M/MY, S65 EMCOTURN E45 M/MY, S45 EMCOTURN 345-II Concept Turn 450 Maxxturn 65 SMY	
	VDI 40	Hyperturn 65/645/665 EMCOTURN E65 SM/SMY Vertical VT 250/260/400 Maxxturn 65 Hyperturn 95/110 Hyperturn 690 EMCOTURN E65 M/MY	
Force One	VDI 30	FCL-450TM/S, 550TM/S, 580TM	
	VDI 40	FCL-580TMS	
Gildemeister	VDI 25	Sprint 50 Twin 32 / 42 / 65	
	VDI 30	CTX 320 linear V3 CTX 320 linear V5 Twin 102 Twin 42 / 65 Frame size 2 Sprint 65 linear CTX 410 V6 CTX 410 V4 CTX 410 V3 CTX 400 E radial tooling turret CTX 320 linear V6 CTX 320 linear V4 CTX 310 V6 CTX 310 V4 CTX 310 V3 CTX 310 ECOLINE CTX 210 V3	Da 4.11 a 4.22
	VDI 40	Sprint 65 linear CTX 510 CTX 450 / 510 ECOLINE CTX 520 linear CTX 420 linear face tooling turret GMX 500 linear GMX 300 / 400 linear GMX 250 linear Twin 102 Twin 42 / 65 Frame size 2 CTX 420 linear radial tooling turret CTX 520 linear with Y-axis	
	VDI 50	CTX 620 linear CTX 650 ECOLINE	
Hardinge	VDI 40	GS 200, 250 MSY	
Hurco	VDI 30	TMM 8	
	VDI 40	TMX 8, TMX10 MY/MYS TMM 10	
Hyundai WIA	VDI 30	L150 SY	
	VDI 40	SKT210SY L200, 250Y/SY / SKT200, 250Y/SY	
Jyoti	VDI 40	TMX 200 TMC 350	
Kovosvit Mas	VDI 30	SP180 SMC, SY SP180 MC, Y	
	VDI 40	SP280 SMC, SY SP280 MC, Y	
Monforts	VDI 40	RNC 400, 500 with subspindle DNC 500, MHC, MNC 500 (Turret 2)	
Mylas	VDI 25	DT42/52/65 sub turret	
	VDI 30	DT42/5/65 main turret (VDI) GT42/52 main turret (VDI) DY42/52/60 main turret (VDI)	
Niles Simmons	VDI 60	N 40/50 N 30	
Romi	VDI 40	G 30M	
	VDI 50	G 50M	
Sauter	VDI 20	Axial VDI 20, DIN 5480, W10	
	VDI 25	Radial VDI 25, DIN 5480	
	VDI 30	Axial VDI 30, DIN 5480, right Radial VDI 30, L2=100 Radial VDI 30, DIN 5480, LF=100 Radial VDI 30, DIN 5480, LF=85	
	VDI 40	Axial VDI 40, DIN 5480, right Axial VDI 40, DIN 5480, left Radial VDI 40, DIN 5480, LF=100 Radial VDI 40, DIN 5480, LF=120	
	VDI 50	Axial VDI 50, DIN 5480, right Axial VDI 50, DIN 5480, left Radial VDI 50, DIN 5480	

COMPATIBILITÀ MOTORIZZATI

DRIVEN TOOLS COMPATIBILITY

In fase d'ordine specificare: **CoSTRUTTORE, MODELLO & N° POSIZIONE TORRETTA**

In case of order please specify **MACHINE BUILDER, MODEL & TURRET N°**

Costruttore Builder Brand	Torretta Turret	Modelli Macchina Lathe or turret Models	LP05 Pages
Sauter	VDI 60	Axial VDI 60, DIN 5480, right Radial VDI 60, DIN 5480	
	VDI 30	VTurn-A16/20SCV, YCV, YSCV VTurn-A16/20CV VTurn II-16/20YCV VTurn II-16/20CV	
Victor	VDI 40	VTurn-A26SCV, YCV, YSCV VTurn-A26CV VTurn II-23/26CV VTurn II-23/26BCV, YCV	Da 4.11 a 4.22
	VDI 50	VTurn-V760CV VTurn-36/40/46CV	
DIN5482	VDI	VDI 20, 30, 40, 50	
Colchester	VDI 30	Tornado T6M, 120M	
	VDI 40	Tornado T8M, 220M	
Gildemeister	VDI 30	CTX 400 E axial turret CTX 310 eco	
	VDI 40	CTX 510 eco	
Hyundai WIA	VDI 40	L150, 210 LMA/LMSA / SKT15, 21LM	
Monforts	VDI 40	RNC 400, 500, 600 without subspindle MNC 500 (Turret 1)	
	VDI 50	RNC 700, MNC 1000 (VDI50)	
	VDI 60	RNC 700, MNC 1000 (VDI60)	Da 4.23 a 4.30
Sauter	VDI 30	Axial VDI 30, DIN 5482, left Axial VDI 30, DIN 5482, right	
	VDI 40	Axial VDI 40, DIN 5482, right Axial VDI 40, DIN 5482, left	
	VDI 50	Axial VDI 50, DIN 5482, right Axial VDI 50, DIN 5482, left	
	VDI 60	Axial VDI 60, DIN 5482, right Axial VDI 60, DIN 5482, left	
Spinner	VDI 30	TC 52, 65 MC (Sauter turret)	
Traub	VDI 30	TNA 300	
	VDI 40	TNA 400	
Victor	VDI 40	VTurn-V560CV	
	VDI 50	VTurn-36CV	
BARUFFALDI	VDI	VDI 20, 30, 40, 50, 60	
Baruffaldi	VDI 20	VDI 20, TBMA/TBYA 100/120, right	
	VDI 30	VDI 30, TBMR/TBYR 160/200, left VDI 30, TBMA/TBYA 120/160, right	
	VDI 40	VDI 40, TBMR/TBYR 200/250, left VDI 40, TBMA/TBYA 160/200, right	
	VDI 50	VDI 50, TBMR/TBYR 250, left VDI 50, TBMA/TBYA 200/250, right VDI 50, TBMA/TBYA 200/250, left	
	VDI 60	VDI 60, TBMR/TBYR 320, right VDI 60, TBMA/TBYA 250/320, right VDI 60, TBMA/TBYA 250/320, left	
Cmz	VDI 50	TBI-520 A/B/C -MC	
Ecoca	VDI 20	SJ-20MC	Da 4.31 a 4.40
Johnford	VDI 30	SL-20, 30, 35, 40/C	
	VDI 40	SL-50, 60, 65/C	
	VDI 50	ST-40, 60, 70, 80 A/B/C ST-100, 130, 160, 200, 240 A/B SL-70, 80, 100, 120 /C HT-40, 60, 80 /C (2/4 Axis)	
	VDI 60	ST-100, 130, 160, 200, 240 C/D	
Spinner	VDI 30	TC 600 axial turret VDI30 TC 600 SMCY (Baruffaldi turret) TC 600 MCY TC 600 MC VDI30 TC 400	
	VDI 40	TC 800 MCY TC 800 MC TC 600 MC	
	VDI 50	TC 77, 110 SMC TC 77, 110 MCY TC 800 MCY TC 77, 110 MC TC 800 SMC	
DIN1809	VDI	VDI 20, 25, 30, 40, 50, 60	
Biglia	VDI 30	B42	
Doosan	VDI 40	Puma S400 M	
Emag	VDI 40	VSC 200, 250 VLC 250 VL 2, 3, 4, 5, 6, 7	Da 4.41 a 4.49
	VDI 50	VSC 315, 400, 500, 7, VL 7, 8	
Emco	VDI 20	ET 342 TCM - DIN1809 version	
	VDI 30	EMCOMAT E300	

COMPATIBILITÀ MOTORIZZATI

DRIVEN TOOLS COMPATIBILITY

In fase d'ordine specificare: **CoSTRUTTORE, MODELLO & N° POSIZIONE TORRETTA**
 In case of order please specify **MACHINE BUILDER, MODEL & TURRET N°**

Costruttore Builder Brand	Torretta Turret	Modelli Macchina Lathe or turret Models	LP05 Pages
Emco	VDI 50	EMCOTURN 700 MC EMCOTURN 800 MC	
	VDI 60	EMCOTURN 900 MC Maxxturn 200 (VDI60)	
Gildemeister	VDI 20	CTX 200 - DIN1809 version	
Hardinge	VDI 40	GS 200, 250 MSY	
	VDI 30	TMM 8i	
Hurco	VDI 40	TMM 10i TMX 8, TMX10 MY/MYS	
	VDI 50	TMM 12i	
Hwacheon	VDI 40	Cutex 240 SMC	
Hyundai WIA	VDI 40	L280LM / SKT28LM	
Jyoti	VDI 30	AX 200 ATM 160	
	VDI 40	AX 300	
Kovosvit Mas	VDI 50	MAS SP430, KL435 MC/Y SP430 MC, Y	Da 4.41 a 4.49
Leadwell	VDI 30	T-6M	
	VDI 40	T-8M	
Romi	VDI 30	GL 240/250M	
	VDI 40	GL 280/300M	
Schaublin	VDI 20	125 CCN R-TM	
	VDI 30	180-CCN 140-CNC, 140-R-CNC	
Takamaz	VDI 40	XY-2000 PLUS	
Takisawa	VDI 40	TY-2000 TS-3000, 4000, 5000 T15 TNR-200, 250 TMM-200, 250	
Victor	VDI 30	VTurn II-16/20CV	
	VDI 40	VTurn II-23/26CV	
Ycm	VDI 30	GT 200 MA (VDI turret)	
BIGLIA	BMT	BMT31, 40, 55	
Biglia	BMT31	B1000-B1000M	Da 5.21 a 5.28
	BMT40	BMX 45 Y2 B436, B438	
	BMT55	B750, B1250 (12 station turret) Quattro B445, B470 BV210, BV315 B750, B1250 (16 station turret) B620 B301, B501, B650, B658, B1200 B446 T2, B465 T2 B446 T3, B465 T3, B545, B565, B745, B765	
DOOSAN	BMT	BMT45, 55, 65, 75, 85	
Dn Solutions	BMT45	Puma MX1600 ST Lynx 2100 M/MS/LY/LSY Puma TT1300 SY/SYY	Da 5.29 a 5.33
Doosan		Lynx 220 LMS/LY/LSY Puma TT1300 SY/SYY Puma MX1600 ST Lynx 220 M/LM Lynx 2100 M/MS/LY/LSY	
Emco		Maxxturn 65 SMY Hyperturn 45/50	
Haas		ST-10/15Y	
Hanwha		STL42 H/N/NH(Y3) STL32/35/38H(Y3)	
Hardinge		TA-42,51 (BMT45-16T) H-51, TT-42/51 (12 station) T-42,51 (BMT45-16T) Conquest H51 (16 station) H-51, TT-42,51 (BMT45-16T) T-42,51 (BMT45-12T)	
Hwacheon		Hi-Tech 230 YSMC (20ST, BMT45) Cutex 180 MC/SMC/YMC/YSMC (16 station)	
Hyundai WIA		SE2200M/MS/LSY	
Jyoti		TMC 250, 350 AX 200	
Mylas		DT42/52/65 main turret GT42/52 main turret DY42/52/60 main turret	
Nexturn		NST56/67	
Romi		GL 250Y/S	
Samsung (Smec)		NS 2100 SY NS 2000M/LM, PL 1600, 2000M	
Spinner		TC 600 SMCY TC 300, TTC 300 SMMCY	
Takamaz		XYT-51	

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COMPATIBILITÀ MOTORIZZATI

DRIVEN TOOLS COMPATIBILITY

In fase d'ordine specificare: **CoSTRUTTORE, MODELLO & N° POSIZIONE TORRETTA**
 In case of order please specify **MACHINE BUILDER, MODEL & TURRET N°**

Costruttore Builder Brand	Torretta Turret	Modelli Macchina Lathe or turret Models	LP05 Pages
Takisawa Taiwan		FX-1500	
Tornos	BMT45	SwissDECO 36 TB	Da 5.29 a 5.33
Victor		VTurn-NP16CM	
Accuway		UT-100, 200 Y	
Alex-Tech		VT-27G, 30-33BLMC	
Dn Solutions		Puma TW2600 M Puma TT1800, 2100 MS/SY/SYY Puma SMX2100 ST Puma MX1600, 2100 ST Puma TL2000, 2500 M Puma DNT 2100, 2600 Puma 2100,2600(II) M/MS/Y/SY Puma 2100, 2600 Y/SY (16ST, BMT55) Lynx 300 M,2600 Y, Puma GT2100,2600 M Lynx 2600 Y/SY (16ST) Lynx 2600 SY (12ST)	
Doosan		Puma SMX2100 ST Puma 2100,2600 Y/SY, Lynx 2600 Y/SY (16ST, BMT55) Lynx 2600 Y/SY (16ST) Lynx 2600 SY (12ST) Puma TW2600 M Puma TT1500, 1800 MS/SY Puma TL2000, 2500 M Puma MX1600, 2100 ST Puma 230, 240, 280 M/MS/LM Puma 2100,2600(II) M/MS/Y/SY Puma 2100, 2600 Y/SY (16ST, BMT55) Puma 1500,2000,2500 M/MS/Y/SY Lynx 300 M, 2600Y, Puma GT2100, 2600 M	
Emag		VT 2, VTC 100-4, VL 2 P (BMT55-83) VL 4-V3 (BMT55-100 turret size 360) VL 4-V2 (BMT55-83 turret size 330) VL 3, 5 Duo (BMT55-100) VL 2, VLC 100 (BMT55-83) VL 2, 4 (BMT 55 High Performance)	
Emco		Maxxturn 95 (BMT55-83) Maxxturn 65 M/MY/SM/SMY (BMT55-83) Hyperturn 65 (BMT55-83)	
Goodway	BMT55	GTX/GTZ-2000, 2600 M/Y (16 station)	Da 5.34 a 5.35
Hardinge		TA-42,51 (BMT55-12T) H-51 T-51/65 Conquest H51 (12 station)	
Hwacheon		VT 450 MC Cutex 160, 180 MC/SMC/YMC/YSMC	
Hyundai WIA		SE2600M SKT160, 180TTMS/TTSY LM1600, 1800, 2200 TTMS/TTSY L160, 230MA/LMA/LMSA HD2200, 2600M/Y/SY	
Jyoti		AX 300	
Leadwell		T-7i M/SM	
Mazak		QT-Ez 8, 10, 12 M/MY/MSY	
Romi		GL 300Y/S	
Samsung (Smec)		NS 2600 SY NS 1600 T2Y2 SL 1500, 2000M/SY PL 250V/VM PL 240LM	
Smart		NL 2000 M/BM/SY/BSY	
Takamaz		XYT-51, 65 XT-8MY	
Takisawa Taiwan		UX-2000	
Tongtai		TD-2000, 2500Y	
Victor		VTurn-A260YCM, YSCM (16ST, BMT55) VTurn-Q200 VTurn-NP20CM, S20CM VTurn-A16/20CM/200CM, SCM, YCM, YSCM	
Ycm		NTC-1600, 2000 M/LM/LS/Y/LY/LSY	
Accuway		UZ-2000 T2Y UT-300 Y	
Dn Solutions		Puma V400 M Puma DNT 2100, 2600 Puma TT2500 MS/SY Puma MX2600 T/ST Puma SMX2600, 3100 ST Puma GT3100 M Puma 3100 M/Y/SY Puma 2100,2600(II) M/MS/Y/SY	
Doosan		Puma GT3100 M Puma VT450 M, VT450 M-2SP Puma V400 M Puma V400 Puma TT2000, 2500 MS/SY Puma SMX2600, 3100 ST Puma MX2000, 2500, 2600 T/ST/SY Puma Invertturn 3000 M Puma 3100 M/Y/MY Puma 300 M/MS Puma 2100,2600(II) M/MS/Y/SY	
Ecoca	BMT65	MT-3/MT-4 MC/MCSY	Da 5.36 a 5.37
Emag		VM 9, VMC 450 (BMT65-110) VL 6 (BMT65-95 High Performance) VL 6 (BMT65-110)	
Emco		Maxxturn 110 Hyperturn 100 Powermill Hyperturn 95/110 SMB/SM2Y	
Focus		CNC FBL-300MC	
Goodway		GLS-2800, 3000, 3300 M/Y/MS/YS GTH-2000, 2600 M GTX/GTZ-2000, 2600 M/Y (12 station) GS-2000 - 3300 M/Y/MS/YS (16 station) GMT-2000 GMS-2000 ST (15 station) GLS 2800-3300 M/Y/MS/YS	
Haas		ST-20/25/28/30/35, DS-30 DS-30 (BMT65 turret)	
Hardinge		GS-65 Elite 65 M Ultra	
Hurco		TMX 8, TMX10 MY/MYS	

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DRIVEN TOOLS COMPATIBILITY

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Costruttore Builder Brand	Torretta Turret	Modelli Macchina Lathe or turret Models	LP05 Pages
Hwacheon		VT 450 MC Hi-Tech 230 SMC/YSMC T2 MC/SMC/YMC/YSMC Hi-Tech 350, 450 MC/SMC/YMC/YSMC Hi-Tech 230 MC/YMC Hi-Tech 200 MC Cutex 240 MC/SMC	
Hyundai WIA		HD2600, 3100M/Y/YA/SY/SYA HD2600, 3100M/Y/SY WIA SKT250, 300M/MS SKT200, 250TTM/MS/SY LV450RM/LM LM2000, 2500TTM/TTMS/TTSY L300MA/MC/LMA/LMC/MSA/MSC/LMSA L2100Y/SY L2000, 2600, 3000Y/LY/SY/LSY	
Johnford		SL-60, 65	
Jyoti		TMC 500-2000 C	
Leadwell		LTC-25iM	
Romi	BMT65	GL 350M/Y/S	Da 5.36 a 5.37
Samsung (Smec)		SL 2000 T2Y2 SLV 500M SL 2500Y/SY, PL 2000, 2500Y/SY SL 3500 M/Y, PL 20-35M, 2000-2500MS	
Smart		NL 3500 Y NL 3500 SY/BSY NL 2500, 3000 M/BM/Y/SY	
Spinner		TTS 85, 125 TC 800 SMCY	
Takisawa Taiwan		NX-2500 T15 NX-2500 T12 LX-2500, 3000M/Y NEX-110Y	
Tongtai		TMT 2000 (BMT65, turret 1, 3) TCS-1500, 2000, 2500 TMT 2000 TD-2000, 2500Y TNL-120T	
Victor		VTurn-A26/260SCM, YSCM (12ST, BMT65) VTurn-S26CM VTurn-A26SCM, YSCM	
Wele		HL-200YS	
Dn Solutions		Puma V8300 M (ATC) Puma V8300 M Puma 4100, 5100 M/LM/LY	
Doosan		Puma V550, 8300 M (ATC) Puma VT750 M, M-2SP Puma V550, 8300 M Puma 4100, 5100 M/LM/LY Puma 400, 480, 500 M/LM	
Haas		ST-40/45Y	
Hwacheon		Hi-Tech 650 MC/YMC VT 550, 650 MC Hi-Tech 700 MC Hi-Tech 550 MC	
Hyundai WIA	BMT75	LV500, 8500RM/LM LV500RM/LM SKT400M/LMC LV800RM/LM SKT-V80RM/LM L400,4000,5100M/LM/MC/LMC/LY	Da 5.38 a 5.39
Romi		GL 450M/Y	
Samsung (Smec)		SL 4000, 4500, 5500M, SL4500LY PL 45M/LY SLV 800M, PL 800VM	
Smart		NL 4000, 5000 M/LM/LY	
Takisawa Taiwan		LA-350,450 M/Y	
Victor		VTurn-V760CM VTurn-S36CM VTurn-40/45 CM, YCM	
Baruffaldi		TBMR/TBYR 320	
Dn Solutions		Puma VT1100 M Puma VT900 M, V9300 M Puma 600, 700, 800 M/LM/LY	
Doosan		Puma VT900 M, M-2SP, V9300 M Puma VT1100 M Puma 600, 700, 800 M/LM/LY	
Emco		Maxxturm 200	
Focus		FBL-510, 520, 530, 540MC	
Hwacheon	BMT85	Hi-Tech 750 MC/YMC VT 950 MC VT 1150 MC Hi-Tech 850 MC/YMC	5.40
Hyundai WIA		KL7000, 8000LY SKT600, 700LM LV1100RM L600, 700, 800MA/LMA	
Samsung (Smec)		SL 65, 6500, 8500M SLV 1000M PL 60, 70, 80 M	
Smart		NL 6000, 7000 LM/XLM	
Victor		VTurn-V1000 (CM)	
Ycm		TC-46 M	
DMG MORI		NL, NZ, SL / ZL / DL	
Dmg Mori	NL	NLX 2500 Gen.2 (BMT60) NLX 4000 NZX 2500 (BMT60) NTX 2000, 2500, 3000 Gen. 2 (BMT60) NT 4200, 4250, 4300, 5400 NL/NLX 1500, 2000, 2500, 3000 (12 ST)	
Takisawa		TS-4000 II T12 (3 key turret) TS-3000, 4000, 5000 T12 (3 key turret)	
Accuway		UT-2000 T2M (BMT40) UT-200 Y/SY, UZ-2000 (BMT40)	Da 5.41 a 5.47
Dmg Mori	NZ	NL/NLX 1500, 2000, 2500 (20 ST) NTX 500 (BMT40) NZ Due, Tre, Quattro (BMT40) NTX 500 (BMT42/64) NZ Due, Tre, Quattro (BMT42/64) DuraTurn 2050, 2550 MC DIM 1500 NZX 6000 NZX 2500 (turret 2 = BMT40) NZX 1500-2000 (16 station) NTX 1000,2000,2500,3000 Gen.2 (BMT40) NT/NTX 1000-3200 (BMT40) NRX 2000 MC NLX 6000, NZX 4000 CLX 450, ecoTurn 450 (BMT40) ALC/ALX 1500, 2000, 2500 (BMT40)	
Takisawa		TM-2000, 3000 T12 (2 key turret) TS-2000-5000 T20 (3 key turret)	

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DRIVEN TOOLS COMPATIBILITY

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Costruttore Builder Brand	Torretta Turret	Modelli Macchina Lathe or turret Models	LP05 Pages
Cmz		TBI 520 - TL 20/25 (M/TM/MS) TC 15/20/25/30/35 (M/Y/MS/YS) TA 15/20/25/30 (M/Y/MS/YS) TD 15/20/25/30/35/45/55 (M/Y/MS/YS) TL 20, 25A, 25B M/TM/MS	
Dmg Mori	SL / ZL / DL	SL, ZL 150, 153, 154 (MC / SMC / Y/SY) DL 15, 150 (MC) DL-200, 250 MC CL 200/203 - SL20/25 - DL 200/250 (MC) SL 200/203/204/250/253/254(MC,SMC)2500Y ZL 200(MC) - ZL250(SMC)	Da 5.41 a 5.47
Goodway		GS 200/230/260/280 (M/MS) GA 2000/2600/2800/3000/3300/3600 (M)	
GOODWAY		G1, G3, G4	
	G1	GLS100-GTS150 M (Bevel Gear version) GTS-150 M (Bevel Gear version) GLS-150 M (Bevel Gear version) GLA-1500 M	Da 5.51 a 5.54
Goodway	G3	GV-500, 780 M GTS-200, 260 MMX/XY (new turret version) GS-3000, 3300, 3600 alpha	
	G4	GS-2000 - 4000 M/Y/MS/YS (12 station turret)	
HAAS		HS1, HS2, HS3	
	HS1	SL-20/30 (VDI turret)	
Haas	HS2	ST-20/25/30/35, DS-30 (24 st. hybrid turret) ST-20/25/30/35 (12 station hybrid turret) ST-10/15/20/25/30/35, DS-30 (VDI40) ST-10/15 (12 station hybrid turret) SL-40 (VDI turret) SL-20/30, TL-15/25 (12 st. hybrid turret) DS-30 (12 station hybrid turret)	Da 5.55 a 5.62
	HS3	ST-40/45, ST-40/45 L (12 st. hybrid turret) SL-40 (12 station hybrid turret)	
MAZAK		MZ1, MZ2, MZ3, MQ1, MQ2	
	MZ1	QT/QTN 200, 250 MS/MSY (16D, VDI40-MZ1) Super Quadrex 200, 250 M (16D, VDI40-MZ1) Super Quick Turn 200, 250 MS/MSY (16D, VDI40-MZ1) Super Quick Turn 200, 250 M/MY (16D, VDI40-MZ1) Super Quick Turn 100 MS/MSY QTN 200,250 MS/MSY (16D, VDI40-MZ1) QT/QTN 100 MS/MSY (VDI40-MZ1) Super Quick Turn 100 M/MY QT/QTN 200, 250 M/MY(16D, VDI40-MZ1) QT/QTN 100 M/MY (VDI40-MZ1)	Da 5.63 a 5.72
Mazak	MZ2	IVS-200, 300 M QT/QTN 200, 250 MS/MSY (VDI40-MZ2) Super Quick Turn 200, 250 MS/MSY (VDI40-MZ2) Super Quick Turn 200, 250 M/MY (VDI40-MZ2) Super Quadrex 200, 250 M (VDI40-MZ2) QT/QTN 200, 250 M/MY (VDI40-MZ2)	
	MZ3	QT/QTN 300, 350, 400, 450 MSY (VDI50-MZ3) Super Quick Turn 300, 350, 400, 450 M/MY Slant Turn Nexus 500, 550, 600 M QT/QTN 300, 350, 400, 450 M/MY (VDI50-MZ3) Megaturn Nexus 900 M HQR 450 M	
	MQ1	Multiplex 6200Y (16D, VDI40-MQ1) Multiplex 6100 HQR 200, 250 MSY/NEO (16D, VDI40-MQ1) HQR 100, 150 MSY	
	MQ2	Integrex i-250, 350, 450H ST (VDI) Multiplex 6200, 6200Y, 6250, W-200, W-200Y (12D, VDI40-MQ2) HQR 200, 250 MSY/NEO	
MIYANO		Ø38, Ø45, Ø54	
Miyano	Ø38	ANX 42 SYY BNA 34, 42 S/C/DHY/MSY/GTY	
Accuway		UA-200 Y	
Goodway		GTW-1500 GTS-150 MMX/XY (new turret version) GLS-1500, 2000 M/LY/LMS/LYS GLS-150, 200 M/Y (DIN1809 version)	Da 5.73 a 5.78
Miyano	Ø45	BNX 42,51 SY BNJ 34,42,51 S/SY BNE-34,51 S/SY/MSY, BNE-51,65 MYY BND-51 C/S/SY ABX 51, 64 SY/TH2/TH3	
Smart		SL 15, 26M SL 15, 20, 280YS/LYS	
Star		SK51	
Miyano	Ø54	ABX 51,64,80 SYY/THY	
NAKAMURA		N44, N55, N65, N75	
Goodway		GTZ-1500Y	
Muratec	N44	MT 100, 1051, 1065 (15-Station)	
Nakamura		MX-100 WT-100 Super NTMX, MX-5 SC-100 NTY ³ -100(V), WY-100 I/IV (12 ST) NTJ-100	
Accuway		UA-330 LY UA-1500 T2Y UA-1500 T2Y2	
Eurotech		TD 15-55 M/MS/Y/YS (15 ST) TTL / TX 52, 66 TA 15, 20, 25, 30 M/MS/Y/YS (15 ST)	Da 5.79 a 5.84
Muratec	N55	MT 1065EX (12-Station)	
Nakamura		SC-200 II (12 ST) JX-250 WTS-150, WTW-150 WT-250 WT-150, WT-150 II, WT-250 II TW-10, TW-20 (16 ST) Super NTM ³ Super NTJX Super NTJ Super NTJ SC-250 SC-150 NTY ³ -150(V), 250, WY-150(V), 250 AS-200 (15 ST) AS-200 (12 ST)	
Averex	N65	MTX1-76 SY1, MTX2-76 SY2	
Nakamura		WT-300 TW-20 (12 ST) Super NTX SC-300 II SC-300	
Nakamura	N75	TW-30 STW-40 STS-40 SC-450	

COMPATIBILITÀ MOTORIZZATI

DRIVEN TOOLS COMPATIBILITY

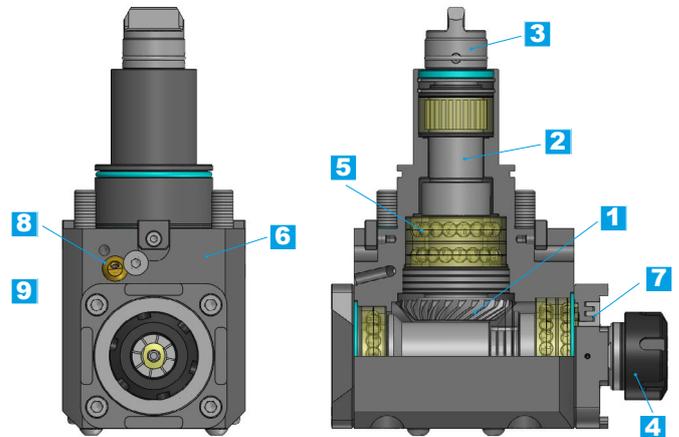
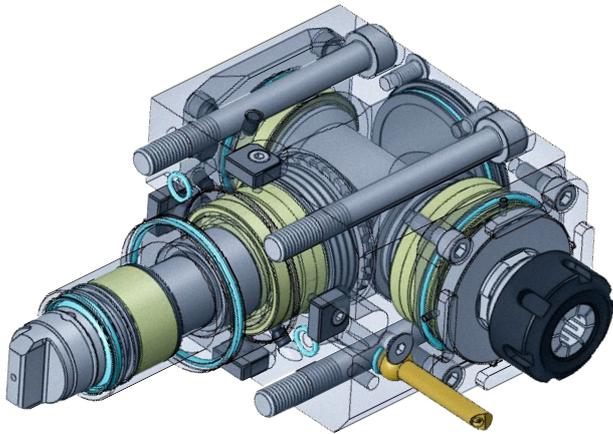
In fase d'ordine specificare: **CoSTRUTTORE, MODELLO & N° POSIZIONE TORRETTA**
 In case of order please specify **MACHINE BUILDER, MODEL & TURRET N°**

Costruttore Builder Brand	Torretta Turret	Modelli Macchina Lathe or turret Models	LP05 Pages
OKUMA		K1, K2, K3, BMT55, BMT60	
Okuma	VDI30-K1	LT 200 M, LT 200 MY LB/LU 200, 2000 M (VDI30) LB 200 MY LB 10 GENOS L200, L2000-e M/MY (VDI30) ES L8 M ES L6 M	
	VDI40-K2	Captain L370 MW LB 300 MW (Face tooling turret) MacTurn350-2S MacTurn250-2S LB/LU 300, 3000 M (VDI40) LVT 300 M LT 300 M, LT 300 MY LB/LU 300 MY LB 300 MYW LB 300 MW (Radial tooling turret) LB 15 GENOS L300, L3000-e M/MY (VDI40) GENOS L300 MW/MYW (VDI40) ES L10 M Captain L370 M	Da 5.85 a 5.92
	VDI40-K3	LVT 400 M LB/LU 400,4000 M (VDI40) LB 25	
	BMT55	LT 2000 EX M/MY (16 station turret)	
	BMT60	LB/LU 4000 EX (II) M/MY 2SP-2500H LT 3000 EX M/MY Multus U3000, 4000, 5000 2SW LB/LU 2000-3000 EX (II, III) M/MY/MW/MYW GENOS L300 MW/MYW, L3000-e M/MY/MYW	
SPINNER		BMT45SP, VDI 25SP, VDI30, VDI40, VDI50	
Spinner	BMT 45SP	Microturn 36, 52 TTS 42, 65 TC 300 - 600(SMCY) - TTC 300 (SMCY)	
	VDI 25SP	TD 42, 65 - TC, TTC 300	Da 5.93 a 5.96
	VDI30	TC 400 - 600(MC, MCY, SMCY)	
Baruffaldi	VDI40	TC 800 MCY/MC TC 600(MC, MCY, SMCY)	
	VDI50	TC 77, 110, 800(MC, MCY, SMCY)	
TAKISAWA J.		BMT60	
Takisawa Japan	BMT60	TM-2000 T12 (2 Key turret) TM-2000, 3000 T12 (2 Key turret) TS-2000-5000 T20 (3 Key turret) TS-3000-5000 T12 (2 Key turret) TS-3000-5000 T12 (3 Key turret)	Da 5.97 a 5.100
TAKISAWA T.		BMT60	
Takisawa Taiwan	BMT60	EX-1500, 2000 YT/YS EX-308/310/508/509/510/710/908/910 EX/NEX-508, 510, 908, 910 FX-800 LA-250 YS/YT T15 LA-250, 300 M/Y LX-2500M/Y MX-800 NEX-108, 110M/Y VTL-450 M	Da 5.101 a 5.104
TSUGAMI		TS65	
Tsugami	TS65	M06, M08 D/SD/SY, M10D	Da 5.105 a 5.110



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1 - INGRANAGGI GLEASON

Rettificati e progettati per ottimizzare la coppia in uscita e ridurre le sollecitazioni. Il moto viene trasmesso tramite due chiavette, garantendo affidabilità e precisione. La rettifica migliora la silenziosità di funzionamento grazie all'elevata accuratezza geometrica, mentre l'alta resistenza all'usura rende questi ingranaggi ideali per applicazioni ad alte prestazioni.

2 - ALBERI CEMENTATI

Gli alberi sono cementati e temprati, con successiva finitura di diametri e battute. La loro struttura è progettata per sopportare carichi elevati e sollecitazioni dinamiche ed è idonea al funzionamento in entrambi i sensi di rotazione. La geometria è studiata per garantire rigidità e stabilità anche in condizioni di lavoro gravose.

3 - TRASMISSIONE DEL MOTO

Il tenone maggiorato assicura una maggiore stabilità strutturale, riduce le vibrazioni e consente una distribuzione più uniforme delle sollecitazioni meccaniche, migliorando l'affidabilità complessiva del sistema.

4 - USCITA UTENSILE

L'albero mandrino è disponibile nelle versioni con pinza esterna o interna, oppure con alberi integrali Weldon, portafrese, HSK e altre configurazioni. Le ghiera ER garantiscono elevate prestazioni, assicurando precisione e affidabilità nel serraggio. Il sistema è inoltre predisposto per l'utilizzo del cambio rapido UNI-CHANGE.

5 - CUSCINETTI

I cuscinetti a sfere a contatto obliquo di alta qualità servono a garantire una rotazione fluida, precisa e ad alta velocità. L'accurata scelta dei componenti assicura prestazioni elevate e affidabilità nel lungo periodo.

6 - CORPO MONOBLOCCO

Realizzato in acciaio e ottimizzato per la refrigerazione interna ed esterna. È progettato con geometrie e smussi che migliorano l'ergonomia, la maneggevolezza e l'estetica complessiva.

7 - SISTEMA DI PROTEZIONE MANDRINO

Il sistema di tenuta lato mandrino adotta una configurazione a labirinto, studiata per applicazioni ad alta velocità. Si tratta di una tenuta meccanica senza contatto, basata su una sequenza di gole e camere concentriche che creano un percorso controllato per il refrigerante. In caso di infiltrazioni, la forza centrifuga generata dalla rotazione spinge il liquido verso l'esterno, dove viene espulso tramite appositi fori di drenaggio prima di raggiungere i componenti interni. Questo sistema garantisce un'elevata protezione, riduce la necessità di manutenzione e contribuisce a mantenere stabile la temperatura anche durante cicli di lavoro intensivi.

8 - UGELLI REFRIGERANTE

Sono progettati per resistere ad alte pressioni e consentono l'installazione di un tappo, permettendo una gestione flessibile e personalizzata del flusso di refrigerante.

9 - CHIAVE MANDRINO

La chiave mandrino semplifica il cambio utensile: blocca il mandrino in modo sicuro e consente all'operatore di lavorare con entrambe le mani, migliorando ergonomia, sicurezza e rapidità di intervento.

1 - GLEASON GEARS

Precision-ground Gleason gears are designed to optimize torque output and reduce mechanical stresses. Power transmission is achieved via two keys, ensuring reliability and accuracy. The grinding process enhances quiet operation thanks to precise gear geometry, while the high wear resistance makes these gears ideal for high-performance applications.

2 - CASE HARDENED SHAFTS

The shafts are case-hardened and hardened, followed by precision finishing of diameters and shoulders. Their structure is engineered to withstand high loads and dynamic stresses and is suitable for operation in both directions of rotation. The geometry ensures rigidity and stability even under heavy-duty operating conditions.

3 - MOTION TRANSMISSION

The oversized tenon provides increased structural stability, reduced vibrations, and a more uniform distribution of mechanical stresses, improving overall system reliability.

4 - TOOL OUTPUT

The spindle shaft is available in external or internal collet versions, as well as with integral shanks such as Weldon, end mill holders, HSK, and other configurations. ER nuts ensure high performance, providing precise and reliable clamping. The system is also designed for compatibility with the UNI-CHANGE quick-change system.

5 - BEARINGS

High-quality angular contact ball bearings are used to ensure smooth, precise, and high-speed rotation. Careful component selection guarantees high performance and long-term reliability.

6 - ONE-PIECE BODY

The one-piece steel body is optimized for internal and external cooling and features geometries and chamfers designed to enhance ergonomics, handling, and overall aesthetics.

7 - SPINDLE PROTECTION SYSTEM

The spindle-side sealing system adopts a labyrinth configuration, specifically designed for high-speed applications. This non-contact mechanical seal consists of a sequence of grooves and concentric chambers that create a controlled path for the coolant. In the event of infiltration, the centrifugal force generated by rotation drives the liquid outward, where it is expelled through dedicated drainage holes before reaching internal components. This system ensures excellent protection, reduces maintenance requirements, and helps maintain stable operating temperatures even during intensive duty cycles.

8 - COOLANT NOZZLES

The coolant nozzles are designed to withstand high pressures and allow the installation of a plug, enabling flexible and customized coolant flow management.

9 - SPINDLE WRENCH

The spindle wrench simplifies tool changes by securely locking the spindle, allowing the operator to work with both hands free, improving safety, ergonomics, and efficiency.

Stozzatore Motorizzato / Motorized Slotter

STOZZATORE

Stozzatore motorizzato modulare per torni e torrette

Motorized slotter for lathes and turrets

POTENZIA ED AGGIORNA IL TUO TORNIO UPGRADE YOUR CNC LATHE

Lo stozzatore motorizzato è stato realizzato per risolvere, nel modo più efficace, il problema di dover realizzare su tornio CNC determinate lavorazioni, che vanno dalla semplice sede per chiavetta a profili dentati interni o esterni.

È stato progettato per ottenere il massimo della rigidità possibile. Questa caratteristica consente un utilizzo molto prolungato dell'inserto e un ottimo grado di finitura della superficie lavorata.

L'utilizzo di questo stozzatore offre dei grandi vantaggi: oltre al fatto di essere estremamente rapido nell'eseguire la lavorazione, non richiede la movimentazione del pezzo su altre macchine, dove sarebbe necessario un ulteriore piazzamento.

Dispone di diverse registrazioni, utili per ottenere una corretta lavorazione, e può realizzare lavorazioni interne o esterne.

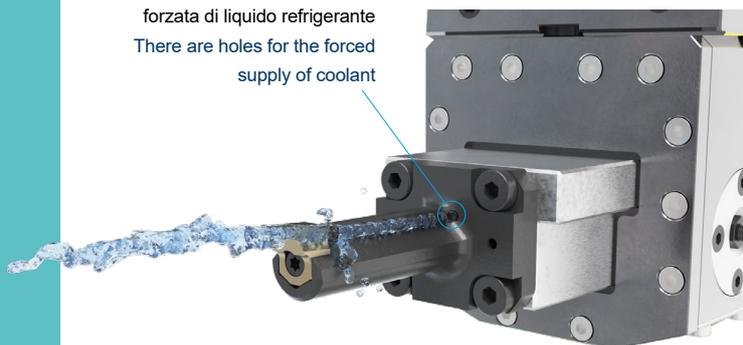
The motorized slotter has been designed to effectively solve the problem of machining certain parts on a CNC lathe, ranging from simple keyways to internal or external tooth profiles.

It has been designed to achieve maximum rigidity. This feature allows for prolonged use of the insert and an excellent finish on the machined surface.

The use of this motorized slotter offers great advantages: in addition to being extremely fast in performing the machining operation, it does not require the workpiece to be moved to other machines, where further positioning would be necessary.

It has several adjustments, useful for obtaining correct machining, and can perform internal or external machining operations.

Sono previsti fori per l'adduzione forzata di liquido refrigerante
There are holes for the forced supply of coolant



Vantaggi Operativi e di Efficienza Operational and Efficiency Advantages

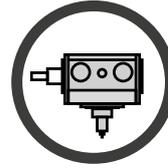
- **Lavorazione Diretta su CNC:** Permette di realizzare lavorazioni a taglio rettilineo, come sedi per chiavetta, prese di forza e profili dentati (interni o esterni).
Direct CNC machining: Allows for straight cutting operations, such as keyways, power take-offs and toothed profiles (internal or external).
- **Risparmio di Tempo e Costi:** È estremamente rapido nell'esecuzione. Non richiede la movimentazione del pezzo su macchine dedicate (stozzatrici o limatrici), eliminando la necessità di ulteriori piazzamenti e riducendo significativamente i tempi e i costi operativi.
Time and Cost Savings: Extremely fast execution. Does not require the workpiece to be moved to dedicated machines (slotting machines or filing machines), eliminating the need for additional set-ups and significantly reducing operating times and costs.
- **Massima Precisione:** Esegue le lavorazioni in tempi ridotti e con notevole precisione, garantendo un risultato perfettamente in tolleranza.
Maximum Precision: Performs machining operations quickly and with remarkable precision, ensuring a result that is perfectly within tolerance.

Caratteristiche Tecniche e Qualità Technical Characteristics and Quality

- **Rigidità Superiore:** Progettato per ottenere la massima rigidità. Questa caratteristica assicura una lavorazione perfettamente rettilinea all'asse del pezzo.
Superior Rigidity: Designed for maximum rigidity. This feature ensures perfectly straight machining along the axis of the workpiece.
- **Qualità di Finitura:** Garantisce un ottimo grado di finitura della superficie lavorata, grazie all'elevata rigidità.
Finish Quality: Guarantees an excellent finish on the machined surface, thanks to its high rigidity.
- **Durata Utensile:** L'eccezionale durata del tagliente dell'inserto è garantita dalla notevole rigidità del sistema.
Tool Life: The exceptional life of the insert cutting edge is guaranteed by the remarkable rigidity of the system.
- **Versatilità:** Può realizzare lavorazioni sia interne che esterne. Il corpo utensile è riutilizzabile e l'inserto è sostituibile.
Versatility: Can perform both internal and external machining operations. The tool body is reusable and the insert is replaceable.
- **Regolazioni:** Dispone di diverse registrazioni utili per ottenere una corretta lavorazione.
Adjustments: Features several useful adjustments to ensure correct machining.

Lo stozzatore rappresenta un'efficace soluzione che permette di realizzare le lavorazioni di brocciatura e stozzatura direttamente sulla macchina utensile CNC (tornio, centro di lavoro, fresatrice, ecc.), senza dover attrezzare altre macchine o rivolgersi a terzisti. In più, garantisce un risultato di ottima finitura e sempre perfettamente in tolleranza.

The motorized slotter is an effective solution that allows broaching and slotting operations to be carried out directly on the CNC machine tool (lathe, machining centre, milling machine, etc.), without having to set up other machines or outsource the work. It also guarantees an excellent finish and always perfectly within tolerance.



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THE WEB PAGE



Il rivoluzionario sistema di utensili!

The revolutionary tooling system!



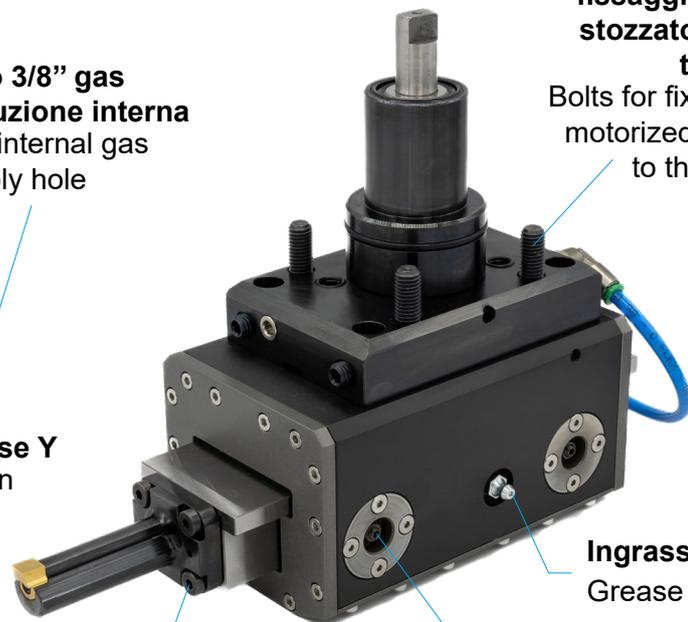
REGOLAZIONE ANGOLARE
ANGULAR ADJUSTMENT

Vite di registro angolo di taglio
Cutting angle adjustment screw

Foro 3/8" gas
adduzione interna
3/8" internal gas
supply hole

Perno registro asse Y
Y-axis reference pin

Zona allineamento
Alignment zone



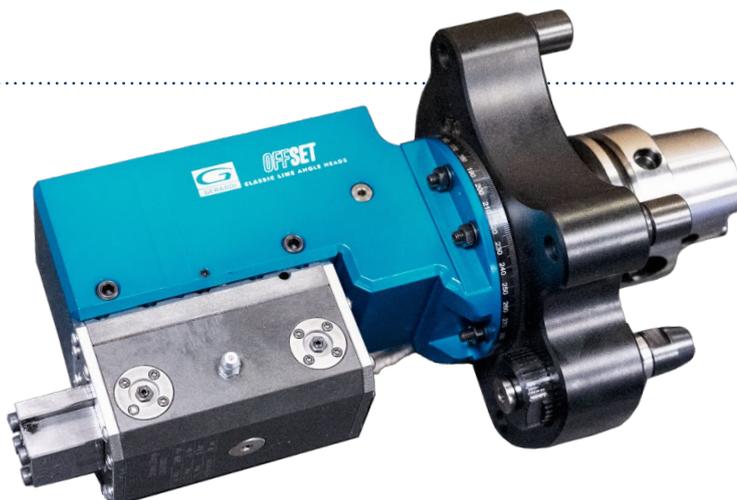
Bulloni di fissaggio dello stozzatore alla torretta
Bolts for fixing the motorized slotter to the turret

Ingrassatori
Grease nipples

Vite di fissaggio utensile
Tool fixing screws

REGOLAZIONE LONGITUDINALE
LONGITUDINAL ADJUSTMENT

Sistema di registro giochi
Clearance adjustment system

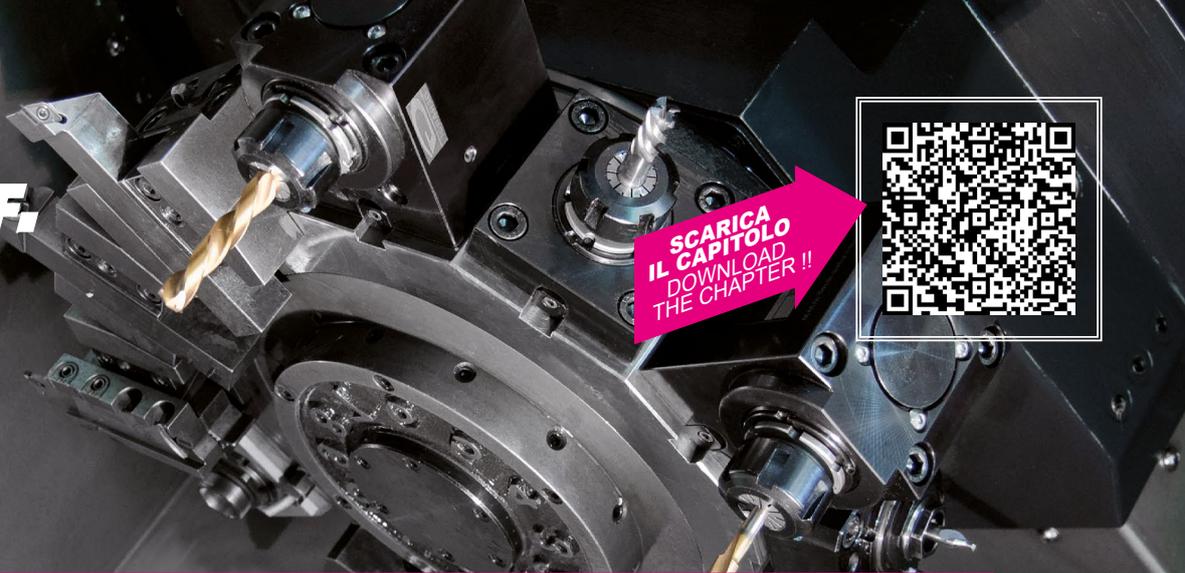


DISPONIBILI ANCHE STOZZATORI MONTATI SU TESTE ANGOLARI

MOTORIZED SLOTTER MOUNTED ON ANGLE HEADS ALSO AVAILABLE

Contattaci per maggiori informazioni
Please contact us for further information

HIGH PERF.



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HIGH PERFORMANCE

**Elevata coppia e 12.000 Rpm per
lavorazioni a secco!**

**High torque and 12.000 Rpm
for dry running!**



MASSIME PRESTAZIONI E PROGETTAZIONE OTTIMIZZATA

Maximum Performance and Optimised Design

- Progettazione ottimizzata nella struttura e nei cuscinetti
- Migliori performance in fresatura e foratura
- Albero principale esente da usura
- Optimized design in the structure and bearings
- Better performance in milling and drilling
- Wear-free main shaft



EFFICIENZA TERMICA E MANUTENZIONE SEMPLIFICATA

Thermal efficiency and simplified maintenance

- Ridotto incremento delle temperature
- Tenuta meccanica senza guarnizione
- Montaggio smontaggio semplificati
- Intervalli di manutenzione ridotti
- Reduced increase in temperatures
- Mechanical seal without gasket
- Simplified assembly and disassembly
- Reduced maintenance intervals



POSSIBILITÀ DI LAVORARE A SECCO

Dry running available

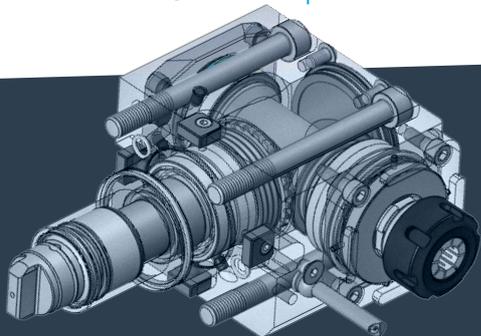
- Possibilità di lavorare a secco ad alte velocità (ma con valori ridotti del 70%)
- Continuo miglioramento della tecnologia di tenuta
- Possibility of dry running at high speeds (but with values reduced by 70%)
- Continuous improvement of sealing technology



CHIAVE DI BLOCCAGGIO CON SISTEMA "SENZA MANI"

'Hands-free' locking wrench

- La chiave di bloccaggio dell'albero portapinzza rimane fissa liberando una mano per un migliore serraggio dell'utensile
- Ridotto il tempo operativo di attrezzaggio
- The collet holder shaft locking key remains fixed, freeing one hand for better tightening of the tool
- Reduced operating time when tooling up the machine.



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and contact your local agent!**

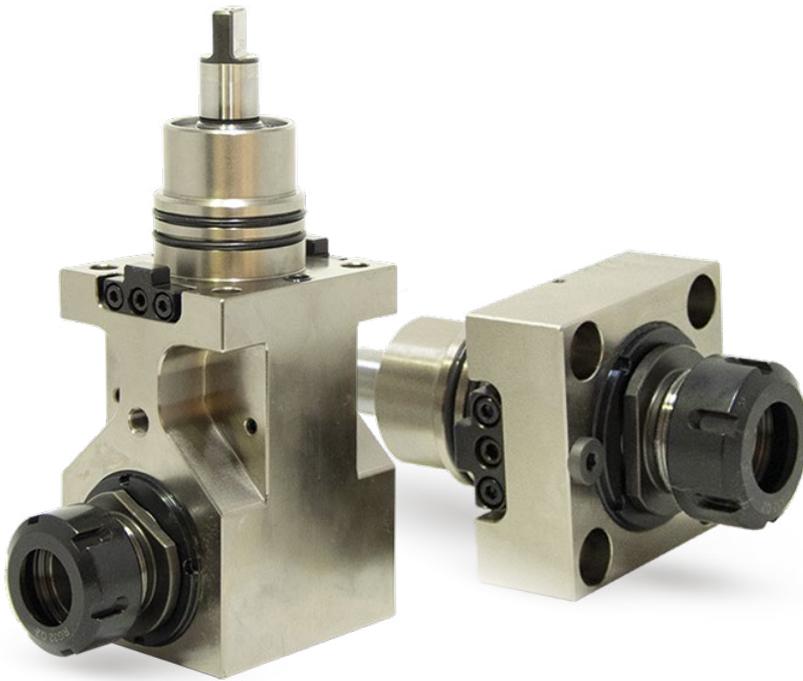


Biglia



BIGLIA

BMT 40 - BMT 55



DOTAZIONE STANDARD STANDARD EQUIPMENT



Chiave bloccaggio albero / chiave per bloccaggio ghiera / ugello refrigerazione / viti bloccaggio motorizzato

Shaft lock wrench / nut lock wrench cooling nozzle Art.183 / nozzle lock screws / driven tool locking screws

CAMBI RAPIDI MODULARI MODULAR QUICK CHANGE

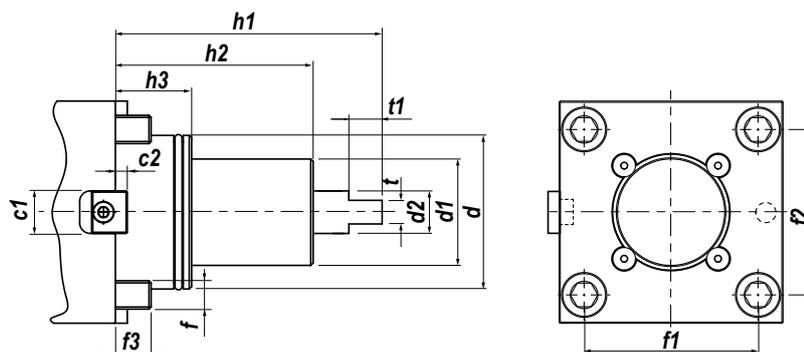


Facile e veloce sistema modulare per il cambio rapido delle diverse tipologie di portautensili con la sede per pinza ER (DIN6499).

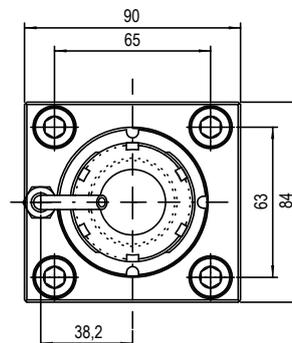
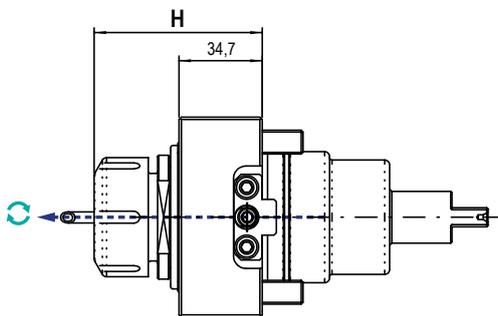
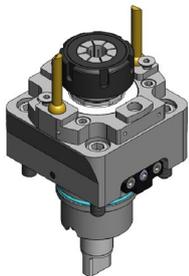
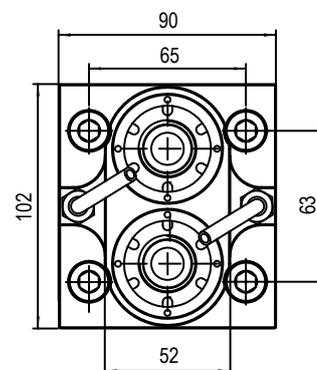
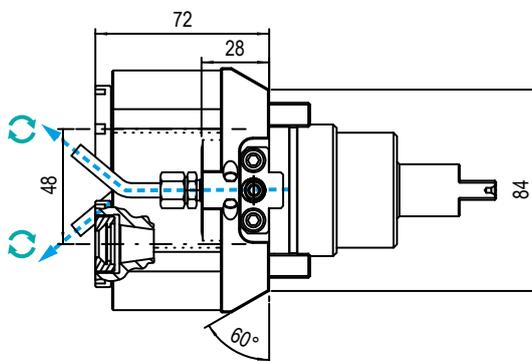
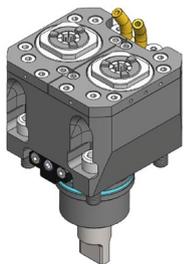
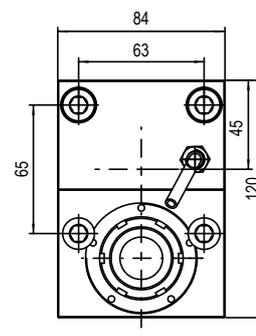
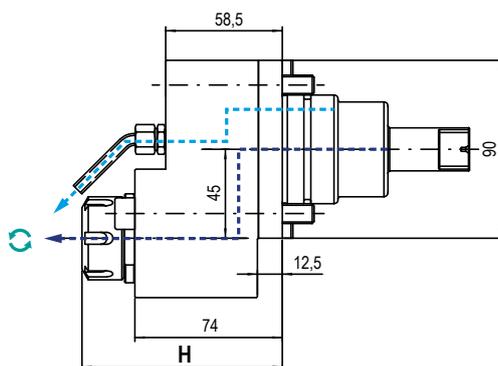
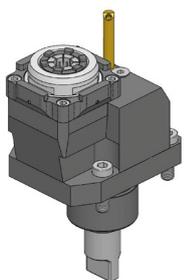
Modular toolholder system for the fitting of toolholders in a spindle unit with ER collets (DIN6499) outputs.

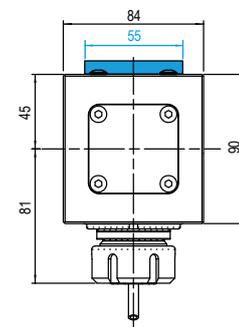
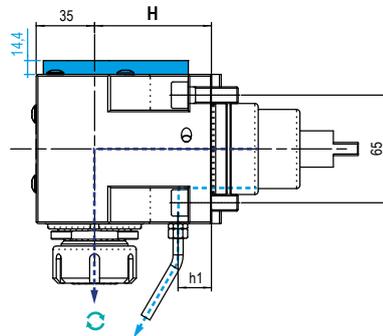
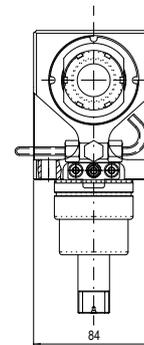
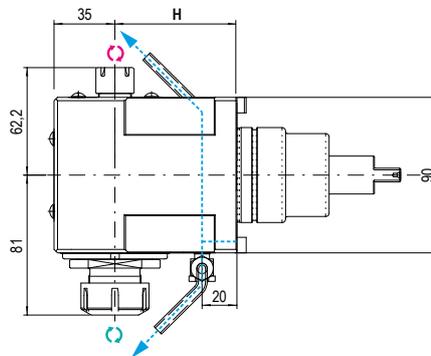
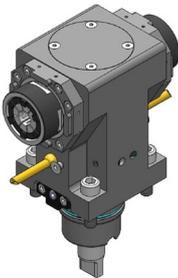
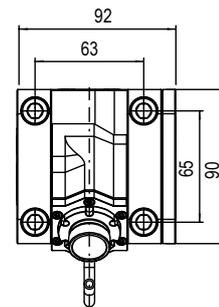
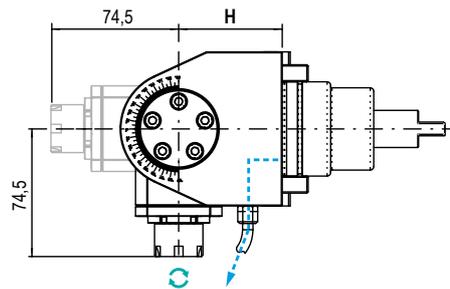
Il valore della coppia, espresso in Nm, è il massimo consentito. Per una maggiore durata, si consiglia di mantenerlo sotto tale soglia
The torque value, expressed in Nm, is the maximum allowed. For longer life, it is recommended to keep it below this limit

	c1	c2	d	d1	d2	f	f1	f2	f3	h1	h2	h3	t	t1
BMT40	12	4	Ø40	Ø35	15	M8	50	50	14	58	43	20	7	10
BMT55	Ø15	5	Ø55	Ø48	-	M10	63	65	12	94,5	53	28	8	-



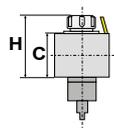
IN FASE D'ORDINE SPECIFICARE - IN CASE OF ORDER PLEASE SPECIFY:
costruttore, modello e numero posizioni in torretta - machine builder, model and turret position numbers


ASSIALE - AXIAL

ASSIALE DOPPIO - DOUBLE AXIS

ASSIALE DISASSATO - OFFSET AXIS



RADIALE - RADIAL

RADIALE DOPPIO - DOUBLE RADIAL

ORIENTABILE - ADJUSTABLE


MODELLI DI TORNIO COMPATIBILI
 COMPATIBLE LATHE TYPES

Biglia



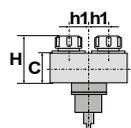
ASSIALE AXIAL

SCAN IT TO SEE



THE TECHNICAL SHEETS

Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.BG.A01	ER-25 Ø1+16	-	70	34,7	47	1 : 1	6.000	3.7		
99.BG.A43	ER-25 Ø1+16	-	70	34,7	47	1 : 1	6.000	3.7		
99.BG.A02	ER-32 Ø2+20	-	70	34,7	47	1 : 1	6.000	3.7		
99.BG.A03	ER-32 Ø2+20	• 18 bar	70	34,7	47	1 : 1	6.000	3.7		
99.BG.A04	ER-32 Ø2+20	• 18 bar	90	85,5	70	1 : 1	6.000	8		
99.BG.A46	ER-32 Ø2+20	-	90	85,5	70	1 : 1	6.000	8		
99.BG.A42	ER-25 Ø1+16	-	51	20	47	1 : 1	6.000	3.7		
99.BG.A45	ER-16 Ø1+10	-	70	20	4	1 : 4	24.000	3.7		
99.BG.A24	PF-16 Ø16	-	77.6	34,7	47	1 : 1	6.000	3.7		
99.BG.A25	PF-16 Ø16	-	67.6	34,7	47	1 : 1	6.000	3.7		
99.BG.A28	PF-16 Ø16	-	87.6	56,7	47	1 : 1	6.000	3.7		
99.BG.A19	PF-22 Ø22	-	89.6	56,7	47	1 : 1	6.000	3.7		
99.BG.A20	PF-22 Ø22	-	97.7	34,7	47	1 : 1	6.000	3.7		
99.BG.A22	PF-22 Ø22	-	104.6	56,7	47	1 : 1	6.000	3.7		
99.BG.A23	PF-22 Ø22	-	82.6	34,7	47	1 : 1	6.000	3.7		
99.BG.A21	PF-27 Ø27	-	99	51,2	70	1 : 1	6.000	8		
99.BG.A26	PF-27 Ø27	-	100.6	34,7	47	1 : 1	6.000	3.7		
99.BG.A27	PF-27 Ø27	-	103.6	56,7	47	1 : 1	6.000	3.7		



ASSIALE 2 USCITE AXIAL 2 OUTPUTS

Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.BG.A41	ER-16 Ø1+10	-				1 : 2	12.000			

ER Portapinza
Collet Holder

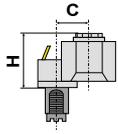
PF Portafresa
Shell Mill Holder

 Uguale al Mandrino
Same as Spindle

 Opposto al Mandrino
Opposite as Spindle

 Refrigerante Interno
Internal Coolant

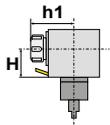
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ASSIALE DISASSATO AXIAL OFFSET



Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.BG.A18	ER-25 Ø1÷16	-	105	45	23	1 : 2	12.000	3.7		



RADIALE RADIAL

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.BG.A12	ER-16 Ø1÷10	-	70	79	4	1 : 4	24.000	3.7		
99.BG.A35	ER-16 Ø1÷10	• 20 bar	100	79	4	1 : 4	24.000	3.7		
99.BG.A37	ER-16 Ø1÷10	-	100	79	4	1 : 4	24.000	3.7		
99.BG.A08	ER-25 Ø1÷16	-	100	50	47	1 : 1	6.000	3.7		
99.BG.A05	ER-25 Ø1÷16	-	70	20	47	1 : 1	6.000	3.7		
99.BG.A06	ER-32 Ø2÷20	-	70		47	1 : 1	6.000	3.7		
99.BG.A07	ER-32 Ø2÷20	• 20 bar	70		47	1 : 1	6.000	3.7		
99.BG.A09	ER-32 Ø2÷20	-	100		47	1 : 1	6.000	3.7		
99.BG.A10	ER-32 Ø2÷20	• 20 bar	100		47	1 : 1	6.000	3.7		
99.BG.A11	ER-25 Ø1÷16	-	70	98	23	1 : 2	12.000	3.7		
99.BG.A34	ER-25 Ø1÷16	• 20 bar	70	98	23	1 : 2	12.000	3.7		
99.BG.A47	ER-32 Ø2÷20	-	75	103	70	1 : 1	6.000	8		
99.BG.A49	ER-32 Ø2÷20	• 20 bar	75	103	70	1 : 1	6.000	8		
99.BG.A39	ER-25 Ø1÷16	-	40	84	40	1 : 1	6.000	6		
99.BG.A31	ER-25 Ø1÷16	• 20 bar	100	84	40	1 : 1	6.000	6		
99.BG.A17	PF-27 Ø27	-	70	93,9	47	1 : 1	6.000	3.7		
99.BG.A36	ER-25 Ø1÷16	-	70		23	2 : 1	12.000	3.7		
99.BG.A44	ER-25 Ø1÷16	-	70		47	1 : 1	6.000	3.7		

MODELLI DI TORNO COMPATIBILI
 COMPATIBLE LATHE TYPES

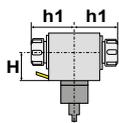
Biglia

Vedi pagine compatibilità 5.10 / 5.16 - See compatibility pages 5.10 / 5.16

SCAN IT TO SEE



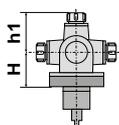
THE TECHNICAL SHEETS



RADIALE DOPPIO

RADIAL DOUBLE

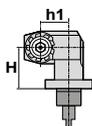
Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.BG.A13	ER-25 / Ø1÷16 / ER-16 Ø1÷10	-	70	81	47	1 : 1	6.000	3.7		↓
99.BG.A14	ER-25 / Ø1÷16 / ER-16 Ø1÷10	-	100		47	1 : 1	6.000	3.7		↓



ORIENTABILE

ADJUSTABLE

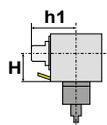
Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.BG.A16	ER-20 Ø1÷13	-	100	98	23	1 : 1	12.000	3.7		↓
99.BG.A15	ER-16 Ø1÷10	-	60	74,5	16	1 : 1	6.000	3.7		↓
99.BG.A29	ER-16 Ø1÷10	-	60	74,5	8	1 : 2	12.000	3.7		↓



PORTA CREATORE

DRIVEN GEAR HOBBER

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.BG.A40	Ø16	-	75	115	94	2 : 1	3.000	3.7		↓



PORTA BROCCIATORE

BROACH

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.BG.A32	DIN1835 Ø10	-	100	82,2	47	1 : 1	6.000	3.7		↓

ER Portapinza
Collet Holder

PF Portafresa
Shell Mill Holder

 Ugualo al Mandrino
Same as Spindle

 Opposto al Mandrino
Opposite as Spindle

 Refrigerante Interno
Internal Coolant

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BMT

Bolt Mounted Turret

BMT 45 / 55 / 65 / 75 / 85



BMT



USCITA C. ISO26623 C. ISO26623 OUTPUT

Disponibile su richiesta
Available on request



DOTAZIONE STANDARD STANDARD EQUIPMENT

Chiave bloccaggio albero / chiave
per bloccaggio ghiera / ugello
refrigerazione / viti bloccaggio
motorizzato

Shaft lock wrench / nut lock wrench
cooling nozzle Art.183 / nozzle lock
screws / driven tool locking screws



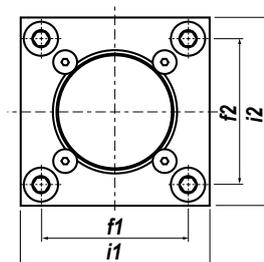
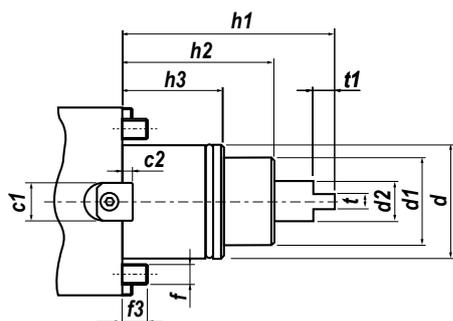
CAMBI RAPIDI MODULARI MODULAR QUICK CHANGE

Facile e veloce sistema modulare
per il cambio rapido delle diverse
tipologie di portautensili con la
sede per pinza ER (DIN6499).

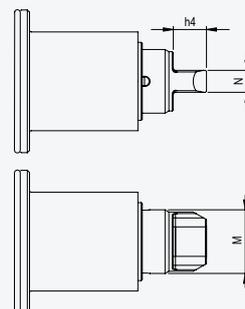
Modular toolholder system for the
fitting of toolholders in a spindle unit
with ER collets (DIN6499) outputs.

Il valore della coppia, espresso in Nm, è il massimo consentito. Per una maggiore durata, si consiglia di mantenerlo sotto tale soglia
The torque value, expressed in Nm, is the maximum allowed. For longer life, it is recommended to keep it below this limit

Type	c1	c2	d	d1	d2	f	f1	f2	f3	h1	h2	h3	i1	i2	t	t1	h4	N	Ø M
BMT45	15	4	45	35	14	M8	58	58	10	84	60	40	75	75	6	8,5	-	-	-
BMT55	15	4	55	40	16	M10	64	64	14	104	75	30	85	85	8	8,5	9,5	8	29
BMT65	18	5	65	45	18	M12	70	73	15	112	83	32	94	94	10	14	15	10	29
BMT75	25	5	75	55	23	M12	90	90	15	110	80	43	112	112	14	15	-	-	-
BMT85	25	5	85	65	33,5	M12	100	100	18	140	100	43	125	125	16	20	-	-	-



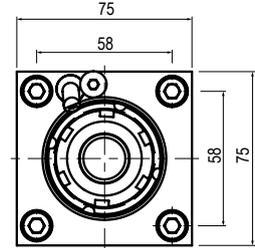
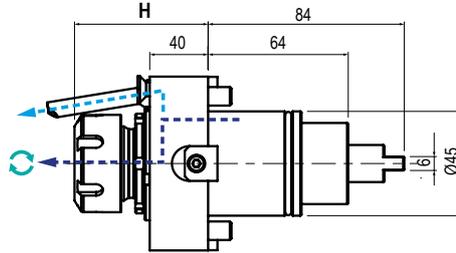
TENONE MAGGIORNATO BIGGER TENON



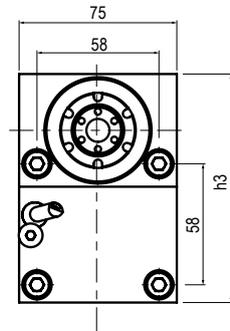
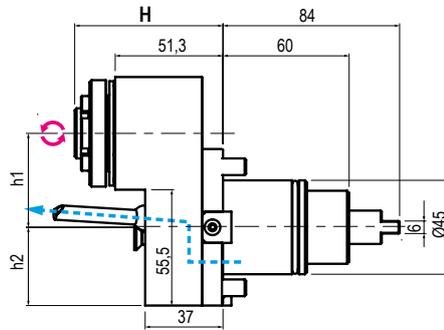
IN FASE D'ORDINE SPECIFICARE - IN CASE OF ORDER PLEASE SPECIFY:
costruttore, modello e numero posizioni in torretta - machine builder, model and turret position numbers



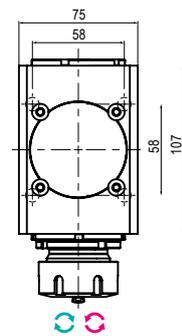
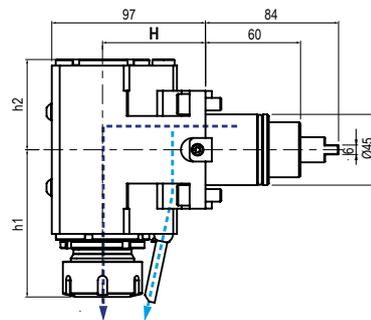
ASSIALE - AXIAL



ASSIALE DISASSATO - OFFSET AXIS

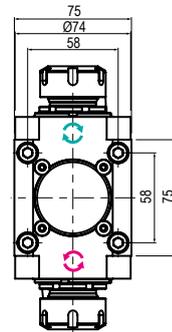
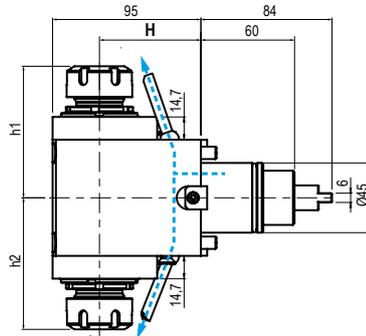


RADIALE - RADIAL

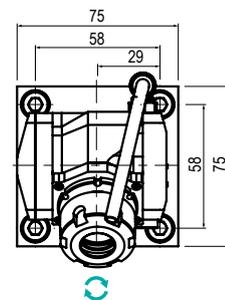
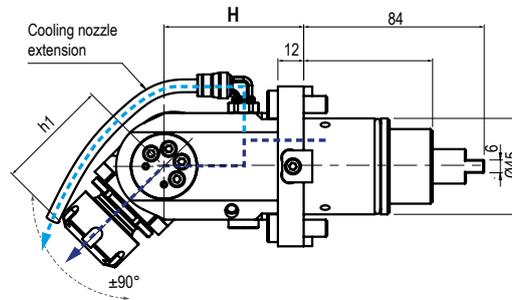




RADIALE DOPPIO - DOUBLE RADIAL



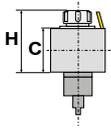
ORIENTABILE - ADJUSTABLE



MODELLI DI TORNIO COMPATIBILI
 COMPATIBLE LATHE TYPES

 Dn Solutions | Doosan | Emco | Haas | Hanwha | Hardinge | Hwacheon | Hyundai WIA | Jyoti |
 Mylas | Nexturn | Romi | Samsung | Spinner | Takamaz | Takisawa Taiwan | Tornos | Victor

Vedi pagine compatibilità 5.10 / 5.16 - See compatibility pages 5.10 / 5.16



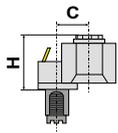
ASSIALE AXIAL

SCAN IT TO SEE



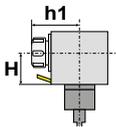
THE TECHNICAL SHEETS

Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.DS.A03	ER-25 Ø1+16	-	57.2	40	20	1 : 1	6.000	6		↓
99.DS.A04	ER-25 Ø1+16	• 80 bar	57.2	40	20	1 : 1	6.000	6		↓
99.DS.A05	ER-16 Ø1+10	-	86.5	57	12	1 : 4	32.000	3		↓
99.DS.A83	ER-32 Ø2+20	-	80.2	40	20	1 : 1	6.000	6		↓
99.DS.A84	ER-32 Ø2+20	• 80 bar	80.2	40	20	1 : 1	6.000	6		↓



ASSIALE DISASSATO AXIAL OFFSET

Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.DS.A06	ER-16 Ø1+10	-	70.5	45	15	1 : 2	16.000	4		↓



RADIALE RADIAL

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.DS.A07	ER-25 Ø1+16	-	65	84,9	20	1 : 1	6.000	6		↓
99.DS.A07C	ER-25 Ø1+16	-	65	84,9	20	1 : 1	6.000	6		↓
99.DS.A08	ER-25 Ø1+16	• 80 bar	65	84,9	20	1 : 1	6.000	6		↓
99.DS.A08C	ER-25 Ø1+16	• 80 bar	65	84,9	20	1 : 1	6.000	6		↓
99.DS.A97	ER-25 Ø1+16	-	85	84,9	20	1 : 1	6.000	6		↓
99.DS.A97C	ER-25 Ø1+16	-	85	84,9	35	1 : 1	8.000	6		↓
99.DS.A67	ER-25 Ø1+16	• 80 bar	85	84,9	20	1 : 1	6.000	6		↓
99.DS.A67C	ER-25 Ø1+16	• 80 bar	85	84,9	35	1 : 1	8.000	6		↓
99.DS.A09	ER-16 Ø1+10	-	65	69,7	12	1 : 4	32.000	3		↓
99.DS.A10	ER-16 Ø1+10	-	65	73,3	15	1 : 2	16.000	4		↓
99.DS.A87	ER-32 Ø2+20	-	65	93,6	35	1 : 1	8.000	6		↓

ER Portapinza
Collet Holder

PF Portafresa
Shell Mill Holder

 Ugualo al Mandrino
Same as Spindle

 Opposto al Mandrino
Opposite as Spindle

 Refrigerante Interno
Internal Coolant

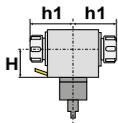
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MODELLI DI TORNIO COMPATIBILI
 COMPATIBLE LATHE TYPES

Dn Solutions | Doosan | Emco | Haas | Hanwha | Hardinge | Hwacheon | Hyundai WIA | Jyoti | Mylas | Nexturn | Romi | Samsung | Spinner | Takamaz | Takisawa Taiwan | Tornos | Victor

Vedi pagine compatibilità 5.10 / 5.16 - See compatibility pages 5.10 / 5.16

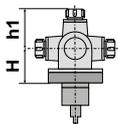
Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.DS.A87C	ER-32 Ø2+20	-	65	93,6	35	1 : 1	8.000	6		
99.DS.A88	ER-32 Ø2+20	• 80 bar	65	93,6	35	1 : 1	8.000	6		
99.DS.A88C	ER-32 Ø2+20	• 80 bar	65	93,6	35	1 : 1	8.000	6		
99.DS.A98	ER-25 Ø1+16	-	100	84,9	20	1 : 1	6.000	6		
99.DS.A98C	ER-25 Ø1+16	-	100	84,9	35	1 : 1	8.000	6		
99.DS.A68	ER-25 Ø1+16	• 80 bar	100	84,9	35	1 : 1	8.000	6		
99.DS.A68C	ER-25 Ø1+16	• 80 bar	100	84,9	35	1 : 1	8.000	6		
99.DS.A100	PF-16 Ø16	-	85	95	20	1 : 1	6.000	6		
99.DS.A101	PF-16 Ø16	-	100	95	35	1 : 1	8.000	6		
99.DS.A99	PF-16 Ø16	-	65	95	35	1 : 1	8.000	6		
99.DS.A99C	PF-16 Ø16	-	65	95	35	1 : 1	8.000	6		
99.DS.A100C	PF-16 Ø16	-	85	95	35	1 : 1	8.000	6		
99.DS.A101C	PF-16 Ø16	-	100	95	35	1 : 1	8.000	6		



RADIALE DOPPIO

RADIAL DOUBLE

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.DS.A13	ER-25 / Ø1+16 / ER-25 Ø1+16	-	65	84,9	20	1 : 1	6.000	6		
99.DS.A103	ER-25 Ø1+16	-	85	84,9	20	1 : 1	6.000	6		
99.DS.A104	ER-25 Ø1+16	-	100	84,9	35	1 : 1	8.000	6		



ORIENTABILE

ADJUSTABLE

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.DS.A16	ER-20 Ø1+13	-	65	52,5	15	1 : 1	6.000	3		
99.DS.A17	ER-20 Ø1+13	• 80 bar	65	52,5	15	1 : 1	6.000	3		

ER Portapinza
Collet Holder

PF Portafresa
Shell Mill Holder

 Ugualo al Mandrino
Same as Spindle

 Opposto al Mandrino
Opposite as Spindle

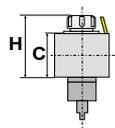
 Refrigerante Interno
Internal Coolant

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MODELLI DI TORNIO COMPATIBILI
 COMPATIBLE LATHE TYPES

 Accuway | Alex-Tech | Dn Solutions | Doosan | Emag | Emco | Goodway | Hardinge | Hwacheon
 Hyundai WIA | Jyoti | Leadwell | Mazak | Romi | Samsung | Smart | Takamaz | Takisawa | Tongtai

Vedi pagine compatibilità 5.10 / 5.16 - See compatibility pages 5.10 / 5.16



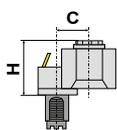
ASSIALE AXIAL

SCAN IT TO SEE



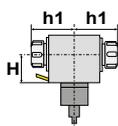
THE TECHNICAL SHEETS

Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.DS.A01	ER-25 Ø1+16	-	57.2	25	40	1 : 1	8.000	8		↓
99.DS.A02	ER-25 Ø1+16	• 80 bar	57.2	25	40	1 : 1	8.000	8		↓
99.DS.A18	ER-16 Ø1+10	-	86.5	57	12	1 : 4	32.000	3		↓



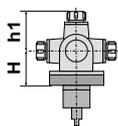
ASSIALE DISASSATO AXIAL OFFSET

Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.DS.A19	ER-16 Ø1+10	-	70.5	45	15	1 : 2	16.000	4		↓



RADIALE DOPPIO RADIAL DOUBLE

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.DS.A94	ER-25 / Ø1+16 / ER-25 Ø1+16	-	60	84,9	40	1 : 1	8.000	8		↓
99.DS.A95	ER-25 / Ø1+16 / ER-25 Ø1+16	-	85	84,9	30	1 : 1	6.000	8		↓
99.DS.A96	ER-25 / Ø1+16 / ER-25 Ø1+16	-	100	84,9	40	1 : 1	8.000	8		↓
99.DS.A24	ER-25 / Ø1+16 / ER-25 Ø1+16	-	70	84,9	40	1 : 1	8.000	8		↓



ORIENTABILE ADJUSTABLE

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.DS.A23	ER-20 Ø1+13	-	65	52,5	15	1 : 1	6.000	3		↓
99.DS.A66	ER-20 Ø1+13	• 80 bar	65	52,5	15	1 : 1	6.000	3		↓

Disponibile versione con tenone maggiorato inserendo T dopo il codice. / Oversized tenon available - add "T" right after the code. (99.DS.A01T)

ER Portapinza
Collet Holder

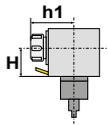
PF Portafresa
Shell Mill Holder

 Ugualo al Mandrino
Same as Spindle

 Opposto al Mandrino
Opposite as Spindle

 Refrigerante Interno
Internal Coolant

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RADIALE RADIAL



Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.DS.A11	ER-25 Ø1+16	-	70	84,9	40	1 : 1	8.000	8		
99.DS.A11C	ER-25 Ø1+16	-	70	84,9	40	1 : 1	8.000	8		
99.DS.A12	ER-25 Ø1+16	● 80 bar	70	84,9	40	1 : 1	8.000	8		
99.DS.A12C	ER-25 Ø1+16	● 80 bar	70	84,9	40	1 : 1	8.000	8		
99.DS.A20	ER-16 Ø1+10	-	60	73,3	12	1 : 4	24.000	3		
99.DS.A21	ER-16 Ø1+10	-	80	73,3	15	1 : 2	16.000	4		
99.DS.A105	PF-16 Ø16	-	60	95	40	1 : 1	8.000	8		
99.DS.A106	PF-16 Ø16	-	70	95	40	1 : 1	8.000	8		
99.DS.A107	PF-16 Ø16	-	85	95	40	1 : 1	8.000	8		
99.DS.A108	PF-16 Ø16	-	100	95	40	1 : 1	8.000	8		
99.DS.A69	ER-25 Ø1+16	-	60	84,9	30	1 : 1	6.000	8		
99.DS.A69C	ER-25 Ø1+16	-	60	84,9	30	1 : 1	6.000	8		
99.DS.A70	ER-25 Ø1+16	● 80 bar	60	84,9	30	1 : 1	6.000	8		
99.DS.A71	ER-25 Ø1+16	-	85	84,9	30	1 : 1	6.000	8		
99.DS.A71C	ER-25 Ø1+16	-	85	84,9	40	1 : 1	8.000	8		
99.DS.A72	ER-25 Ø1+16	● 80 bar	85	84,9	40	1 : 1	8.000	8		
99.DS.A72C	ER-25 Ø1+16	● 80 bar	85	84,9	40	1 : 1	8.000	8		
99.DS.A81	ER-25 Ø1+16	-	100	84,9	40	1 : 1	8.000	8		
99.DS.A81C	ER-25 Ø1+16	-	100	84,9	40	1 : 1	8.000	8		
99.DS.A82	ER-25 Ø1+16	● 80 bar	100	84,9	40	1 : 1	8.000	8		
99.DS.A82C	ER-25 Ø1+16	● 80 bar	100	84,9	40	1 : 1	8.000	8		
99.DS.A105C	PF-16 Ø16	-	60	95	40	1 : 1	8.000	8		
99.DS.A106C	PF-16 Ø16	-	70	95	40	1 : 1	8.000	8		
99.DS.A107C	PF-16 Ø16	-	85	95	40	1 : 1	8.000	8		
99.DS.A108C	PF-16 Ø16	-	100	95	40	1 : 1	8.000	8		

Disponibile versione con tenone maggiorato inserendo T dopo il codice. / Oversized tenon available - add "T" right after the code. (99.DS.A01T)

ER Portapinza
Collet Holder

PF Portafresa
Shell Mill Holder

 Ugualo al Mandrino
Same as Spindle

 Opposto al Mandrino
Opposite as Spindle

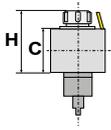
 Refrigerante Interno
Internal Coolant

 Scarica il PDF
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MODELLI DI TORNIO COMPATIBILI
 COMPATIBLE LATHE TYPES

 Accuway | Dn Solutions | Doosan | Ecoca | Emag | Emco | Focus | Goodway | Haas | Hardinge | Hurco | Hwacheon
 Hyundai | Johnford | Jyoti | Leadwell | Romi | Samsung | Smart | Spinner | Takisawa | Tongtai | Victor | Wele

Vedi pagine compatibilità 5.10 / 5.16 - See compatibility pages 5.10 / 5.16

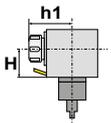

ASSIALE
AXIAL

SCAN IT TO SEE



THE TECHNICAL SHEETS

Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.DS.A41	ER-32 Ø2+20	-	72.2	32	70	1 : 1	6.000	10		↓
99.DS.A42	ER-32 Ø2+20	• 80 bar	72.2	32	50	1 : 1	6.000	10		↓
99.DS.A137	ER-16 Ø1+10	• 80 bar	66	32	40	1 : 1	6.000	10		↓


RADIALE
RADIAL

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.DS.A51	ER-32 Ø2+20	-	72	93,6	70	1 : 1	6.000	10		↓
99.DS.A51C	ER-32 Ø2+20	-	72	93,6	70	1 : 1	6.000	10		↓
99.DS.A52	ER-32 Ø2+20	• 80 bar	72	93,6	70	1 : 1	6.000	10		↓
99.DS.A52C	ER-32 Ø2+20	• 80 bar	72	93,6	70	1 : 1	6.000	10		↓
99.DS.A73	ER-32 Ø2+20	-	100	93,6	70	1 : 1	6.000	10		↓
99.DS.A73C	ER-32 Ø2+20	-	100	93,6	70	1 : 1	6.000	10		↓
99.DS.A74	ER-32 Ø2+20	• 80 bar	100	93,6	70	1 : 1	6.000	10		↓
99.DS.A74C	ER-32 Ø2+20	• 80 bar	100	93,6	70	1 : 1	6.000	10		↓
99.DS.A30	ER-20 Ø1+13	-	72	93,6	12	1 : 4	12.000	8		↓
99.DS.A62	PF-22 Ø22	-	72	103,5	70	1 : 1	6.000	10		↓
99.DS.A62C	PF-22 Ø22	-	72	103,5	70	1 : 1	6.000	10		↓
99.DS.A111	PF-22 Ø22	-	100	103,5	70	1 : 1	6.000	10		↓
99.DS.A111C	PF-22 Ø22	-	100	103,5	70	1 : 1	6.000	10		↓

Disponibile versione con tenone maggiorato inserendo T dopo il codice. / Oversized tenon available - add "T" right after the code. (99.DS.A27T)

ER

 Portapinza
 Collet Holder

PF

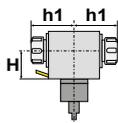
 Portafresa
 Shell Mill Holder

 Ugualo al Mandrino
 Same as Spindle

 Opposto al Mandrino
 Opposite as Spindle

 Refrigerante Interno
 Internal Coolant

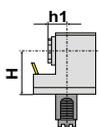
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RADIALE DOPPIO

RADIAL DOUBLE

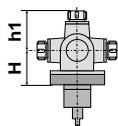
Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.DS.A31	ER-32 / Ø2+20 / ER-32 Ø2+20	-	72	93,6	70	1 : 1	6.000	10		↓
99.DS.A78	ER-32 / Ø2+20 / ER-32 Ø2+20	-	100	93,6	70	1 : 1	6.000	10		↓



RADIALE ARRETRATO

RADIAL OFFSET

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.DS.A125	ER-32 Ø2+20	-	100	53,4	40	1 : 1	6.000	10		↓



ORIENTABILE

ADJUSTABLE

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.DS.A64	ER-25 Ø1+16	-	75	67,2	25	1 : 1	6.000	4		↓
99.DS.A65	ER-25 Ø1+16	• 80 bar	75	67,2	25	1 : 1	6.000	4		↓

Disponibile versione con tenone maggiorato inserendo T dopo il codice. / Oversized tenon available - add "T" right after the code. (99.DS.A27T)

ER Portapinzina
 Collet Holder

PF Portafresa
 Shell Mill Holder

 Ugualo al Mandrino
 Same as Spindle

 Opposto al Mandrino
 Opposite as Spindle

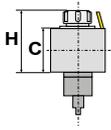
 Refrigerante Interno
 Internal Coolant

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MODELLI DI TORNIO COMPATIBILI
 COMPATIBLE LATHE TYPES

 Dn Solutions | Doosan | Haas | Hwacheon | Hyundai WIA | Romi | Samsung | Smart
 Takisawa | Victor

Vedi pagine compatibilità 5.10 / 5.16 - See compatibility pages 5.10 / 5.16



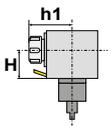
ASSIALE AXIAL

SCAN IT TO SEE



THE TECHNICAL SHEETS

Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.DS.A34	ER-40 Ø3+30	-	90.2	52,6	60	1 : 1	6.000	12		
99.DS.A35	ER-40 Ø3+30	• 80 bar	90.2	52,6	60	1 : 1	6.000	12		



RADIALE RADIAL

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.DS.A38	ER-40 Ø3+30	-	60	112,1	60	1 : 1	6.000	12		
99.DS.A38C	ER-40 Ø3+30	-	60	112,1	100	1 : 1	6.000	12		
99.DS.A39	ER-40 Ø3+30	• 80 bar	60	112,1	60	1 : 1	6.000	12		
99.DS.A39C	ER-40 Ø3+30	• 80 bar	60	112,1	100	1 : 1	6.000	12		
99.DS.A138	ER-40 Ø3+30	-	60	112,5	100	1 : 1	6.000	12		
99.DS.A75	ER-40 Ø3+30	-	90	112,1	60	1 : 1	6.000	12		
99.DS.A75C	ER-40 Ø3+30	-	90	112,1	100	1 : 1	6.000	12		
99.DS.A76	ER-40 Ø3+30	• 80 bar	90	112,1	60	1 : 1	6.000	12		
99.DS.A76C	ER-40 Ø3+30	• 80 bar	90	112,1	100	1 : 1	6.000	12		
99.DS.A85	ER-40 Ø3+30	-	110	112,1	60	1 : 1	6.000	12		
99.DS.A85C	ER-40 Ø3+30	-	110	112,1	100	1 : 1	6.000	12		
99.DS.A86	ER-40 Ø3+30	• 80 bar	110	112,1	100	1 : 1	6.000	12		
99.DS.A86C	ER-40 Ø3+30	• 80 bar	110	112,1	100	1 : 1	6.000	12		
99.DS.A112	PF-27 Ø27	-	60	120	100	1 : 1	6.000	12		
99.DS.A113	PF-27 Ø27	-	90	120	60	1 : 1	6.000	12		

 ER Portapinza
 Collet Holder

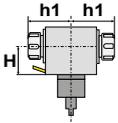
 PF Portafresa
 Shell Mill Holder

 Ugualo al Mandrino
 Same as Spindle

 Opposto al Mandrino
 Opposite as Spindle

 Refrigerante Interno
 Internal Coolant

 Scarica il PDF
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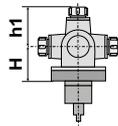


RADIALE DOPPIO

RADIAL DOUBLE



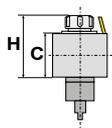
Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.DS.A44	ER-40 / Ø3+30 / ER-40 Ø3+30	-	60	112,1	100	1 : 1	6.000	12		



ORIENTABILE

ADJUSTABLE

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.DS.A47	ER-25 Ø1+16	-	75	67,2	25	1 : 1	6.000	4		
99.DS.A48	ER-25 Ø1+16	• 80 bar	75	67,2	25	1 : 1	6.000	4		



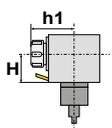
ASSIALE AXIAL

SCAN IT TO SEE



THE TECHNICAL SHEETS

Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.DS.A90	ER-50 Ø6+36	-	119.2	46,5	150	1 : 1	3.200	15		
99.DS.A50	ER-50 Ø6+36	• 80 bar	119.2	46,5	150	1 : 1	3.200	15		



RADIALE RADIAL

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.DS.A77	ER-50 Ø6+36	-	85	147,7	150	1 : 1	3.200	15		
99.DS.A77C	ER-50 Ø6+36	-	85	147,7	150	1 : 1	3.200	15		
99.DS.A56	ER-50 Ø6+36	• 80 bar	85	147,7	150	1 : 1	3.200	15		
99.DS.A56C	ER-50 Ø6+36	• 80 bar	85	147,7	150	1 : 1	3.200	15		
99.DS.A89	ER-50 Ø6+36	-	110	147,7	150	1 : 1	3.200	15		
99.DS.A89C	ER-50 Ø6+36	-	110	147,7	150	1 : 1	3.200	15		
99.DS.A57	ER-50 Ø6+36	• 80 bar	110	147,7	150	1 : 1	3.200	15		

NLX / NZ / SL-ZL-DL



USCITA C. ISO26623
C. ISO26623 OUTPUT

Disponibile su richiesta
Available on request



DOTAZIONE STANDARD
STANDARD EQUIPMENT

Chiave bloccaggio albero / chiave per bloccaggio ghiera / ugello refrigerazione / viti bloccaggio motorizzato

Shaft lock wrench / nut lock wrench cooling nozzle Art.183 / nozzle lock screws / driven tool locking screws



CAMBI RAPIDI MODULARI
MODULAR QUICK CHANGE

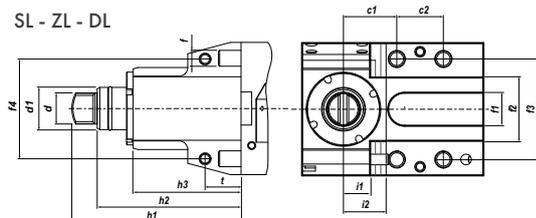
Facile e veloce sistema modulare per il cambio rapido delle diverse tipologie di portautensili con la sede per pinza ER (DIN6499).

Modular toolholder system for the fitting of toolholders in a spindle unit with ER collets (DIN6499) outputs.

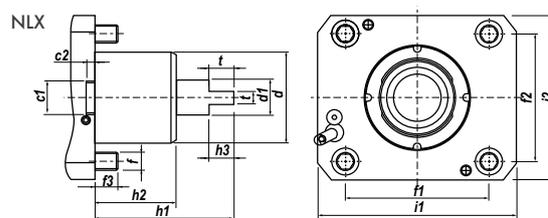
Il valore della coppia, espresso in Nm, è il massimo consentito. Per una maggiore durata, si consiglia di mantenerlo sotto tale soglia
The torque value, expressed in Nm, is the maximum allowed. For longer life, it is recommended to keep it below this limit

	c1	c2	d	d1	f	f1	f2	f3	f4	h1	h2	h3	i1	i2	t
NLX	20	5,5	60	23,7	M12	94	84	15	-	91	53	16,5	130	108	8
NZ	12	4,5	40	22	M10	70	62	16	-	69	32	14,4	78	110	8
SL-ZL-DL	40	35	23,5	32	M12	25	48	76	76	127	107,96	81	20	32	27

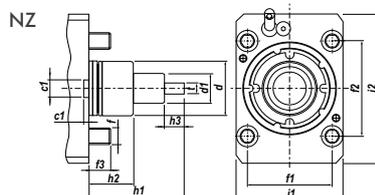
SL - ZL - DL



NLX



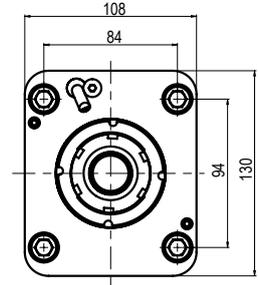
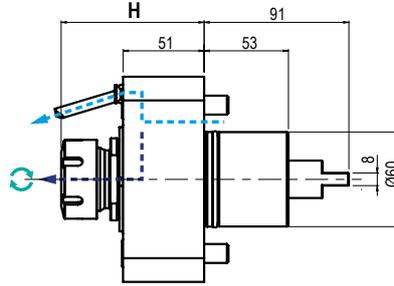
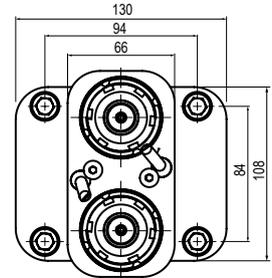
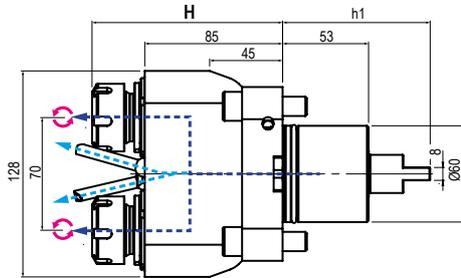
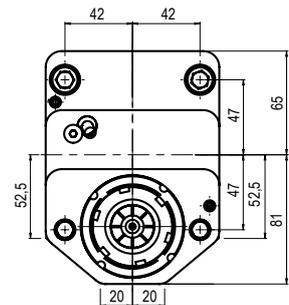
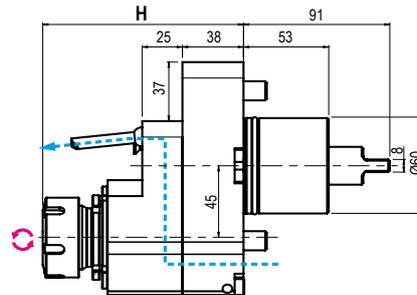
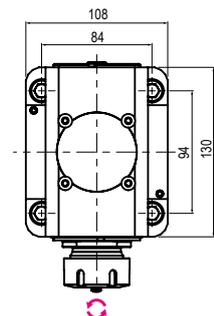
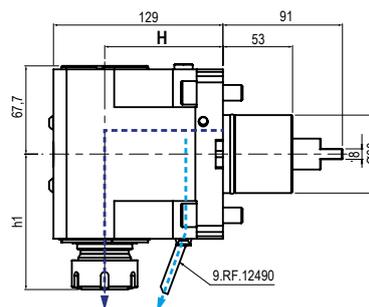
NZ



IN FASE D'ORDINE SPECIFICARE - IN CASE OF ORDER PLEASE SPECIFY:
costruttore, modello e numero posizioni in torretta - machine builder, model and turret position numbers

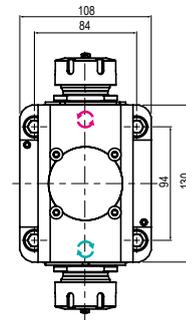
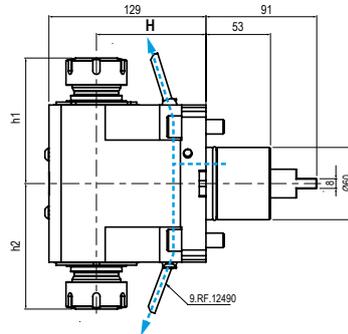
MODELLI DI TORNIO COMPATIBILI
 COMPATIBLE LATHE TYPES

DMG MORI

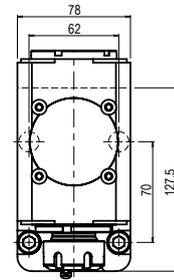
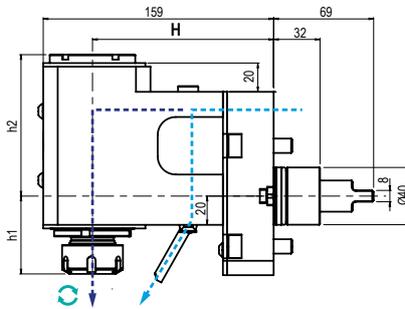

ASSIALE - AXIAL

ASSIALE DOPPIO - DOUBLE AXIS

ASSIALE DISASSATO - OFFSET AXIS

RADIALE - RADIAL




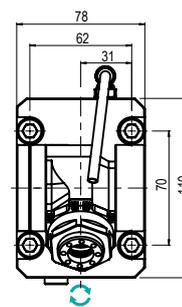
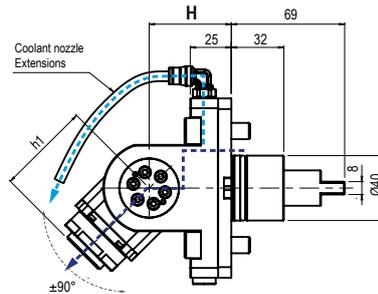
RADIALE DOPPIO - DOUBLE RADIAL



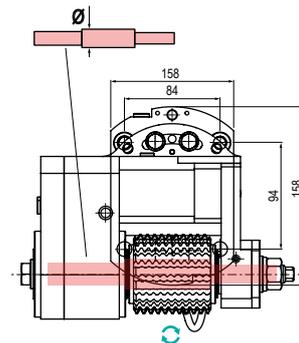
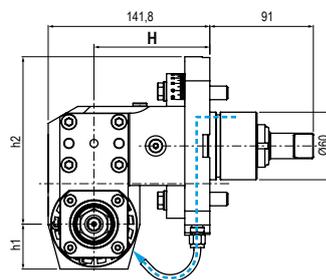
RADIALE DISASSATO - RADIAL REAR OFFSET



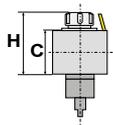
ORIENTABILE - ADJUSTABLE



PORTA CREATORE - DRIVEN GEAR HOBBER



Vedi pagine compatibilità 5.10 / 5.16 - See compatibility pages 5.10 / 5.16



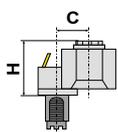
ASSIALE AXIAL

SCAN IT TO SEE



THE TECHNICAL SHEETS

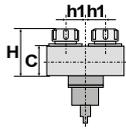
Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MS.A62	ER-40 Ø3+30	-	92	51	60	1 : 1	10.000	10		
99.MS.A63	ER-40 Ø3+30	• 80 bar	92	51	60	1 : 1	10.000	10		
99.MS.A67	PF-22 Ø22	-	100	51	60	1 : 1	6.000	10		
99.MS.A68	PF-27 Ø27	-	100	51	60	1 : 1	6.000	10		



ASSIALE DISASSATO AXIAL OFFSET

Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MS.A61	ER-32 Ø2+20	-	125	45	80	1 : 1	10.000	10		
99.MS.A111	CAPTO C4 ISO26623	-	125		50	1 : 1	12.000	7.5		

Disponibile solo per tornio NZ 1000 / Only for lathe NZ 1000

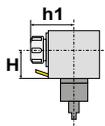


ASSIALE 2 USCITE

AXIAL 2 OUTPUTS



Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MS.A57	ER-25 / Ø1÷16 / ER-25 Ø1÷16	-	117.5	85	40	1 : 1	6.000	10		
99.MS.A58	ER-25 / Ø1÷16 / ER-25 Ø1÷16	• 80 bar	117.5	85	40	1 : 1	6.000	10		

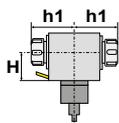


RADIALE

RADIAL

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MS.A72	ER-32 Ø2÷20	-	90	103,9	60	1 : 1	10.000	10		
99.MS.A73	ER-32 Ø2÷20	• 80 bar	90	103,9	60	1 : 1	10.000	10		
99.MS.A82	ER-25 Ø1÷16	-	90	99	60	1 : 1	10.000	10		
99.MS.A83	ER-25 Ø1÷16	• 80 bar	90	99	60	1 : 1	10.000	10		
99.MS.A69	PF-22 Ø22	-	90	67,7	60	1 : 1	6.000	10		
99.MS.A70	PF-27 Ø27	-	90	67,7	60	1 : 1	6.000	10		
99.MS.A07	WELDON Ø20 Ø20	-	90	109	60	1 : 1	10.000	10		
99.MS.A08	WELDON Ø20 Ø20	• 80 bar	90	109	60	1 : 1	10.000	10		
99.MS.A10	WELDON Ø25 Ø25	• 80 bar	90	139	60	1 : 1	6.000	10		
99.MS.A11	WELDON Ø 1" (25,4) Ø25,4	-	90	139	60	1 : 1	10.000	10		
99.MS.A12	WELDON Ø 1" (25,4) Ø25,4	• 80 bar	90	139	60	1 : 1	10.000	10		

Vedi pagine compatibilità 5.10 / 5.16 - See compatibility pages 5.10 / 5.16

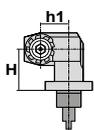


RADIALE DOPPIO

RADIAL DOUBLE


 SCAN IT TO SEE
 THE TECHNICAL SHEETS

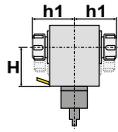
Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MS.A84	ER-32 / Ø2÷20 / ER-32 Ø2+20	-	90	103,9	60	1 : 1	10.000	10		
99.MS.A85	ER-40 / Ø3+30 / ER-40 Ø3+30	-	90	106	60	1 : 1	10.000	10		



PORTA CREATORE

DRIVEN GEAR HOBBER

Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MS.A99	Ø22	-	101.77	141,8	150	2 : 1	3.000			
99.MS.A15	Ø27	-	102	1.418	110	2 : 1	3.000			

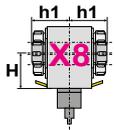


RADIALE DOPPIO 2 USCITE SU ASSE Y

DOUBLE RADIAL 2 OUTPUTS ON Y AXIS



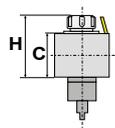
Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MS.A96	ER-25 / Ø1+16 / ER-25 Ø1+16	-	90	101	40	1 : 1	6.000	2.1		



RADIALE 8 USCITE

8 OUPUT RADIAL

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MS.A97	ER-20 / Ø1+13 ER-20	-	90	101	20	1 : 1	6.000	1.1		



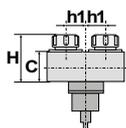
ASSIALE AXIAL

SCAN IT TO SEE



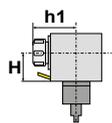
THE TECHNICAL SHEETS

Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MS.A101	ER-25 Ø1+16	-	84.3	35	50	1 : 1	12.000	7.5		
99.MS.A103	ER-32 Ø2+20	-	89.2	35	50	1 : 1	12.000	7.5		
99.MS.A102	ER-25 Ø1+16	• 100 bar	84.3	35	50	1 : 1	12.000	7.5		
99.MS.A104	ER-32 Ø2+20	• 100 bar	89.2	35	50	1 : 1	12.000	7.5		
99.MS.A105	PF-22 Ø22	-	100	35	50	1 : 1	12.000	7.5		



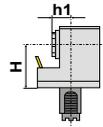
ASSIALE 2 USCITE AXIAL 2 OUTPUTS

Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MS.A121	ER-20 / ER-20 Ø1+13	-	91.5	66	30	1 : 1	6.000	5.5		
99.MS.A122	ER-20 / ER-20 Ø1+13	• 80 bar	91.5	66	30	1 : 1	6.000	5.5		



RADIALE RADIAL

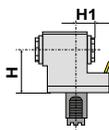
Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MS.A108	ER-32 Ø2+20	-	85	94	50	1 : 1	12.000	7.5		
99.MS.A109	ER-32 Ø2+20	• 100 bar	85	94	50	1 : 1	12.000	7.5		
99.MS.A106	ER-25 Ø1+16	-	85	94	50	1 : 1	12.000	7.5		
99.MS.A107	ER-25 Ø1+16	• 100 bar	85	94	50	1 : 1	12.000	7.5		



RADIALE ARRETRATO RADIAL OFFSET

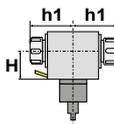


Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MS.A123	ER-25 Ø1+16	-	125	54,1	50	1 : 1	12.000	7.5		↓
99.MS.A124	ER-25 Ø1+16	• 100 bar	125	54,1	50	1 : 1	12.000	7.5		↓
99.MS.A125	ER-32 Ø2+20	-	125	59	50	1 : 1	12.000	7.5		↓
99.MS.A126	ER-32 Ø2+20	• 100 bar	125	59	50	1 : 1	12.000	7.5		↓



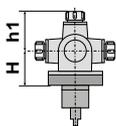
RADIALE DOPPIO ARRETRATO RADIAL DOUBLE OFFSET

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MS.A128	ER-25 / Ø1+16 / ER-25 Ø1+16	-	125	54,1	50	1 : 1	12.000	7.5		↓
99.MS.A129	ER-32 / Ø2+20 / ER-32 Ø2+20	-	125	59	50	1 : 1	12.000	7.5		↓



RADIALE DOPPIO RADIAL DOUBLE

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MS.A114	ER-32 / Ø2+20 / ER-32 Ø2+20	-	85	94	50	1 : 1	12.000	7.5		↓
99.MS.A115	ER-25 / Ø1+16 / ER-25 Ø1+16	-	85	89	50	1 : 1	12.000	7.5		↓



ORIENTABILE ADJUSTABLE

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MS.A118	ER-20 Ø1+13	-	50	57,1	17	1 : 1	12.000	5.5		↓
99.MS.A119	ER-20 Ø1+13	• 80 bar	50	57,1	17	1 : 1	12.000	5.5		↓

MODELLI DI TORNIO COMPATIBILI
 COMPATIBLE LATHE TYPES

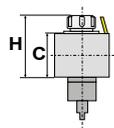
Cnz | Dmg Mori | Goodway

Vedi pagine compatibilità 5.10 / 5.16 - See compatibility pages 5.10 / 5.16

SCAN IT TO SEE

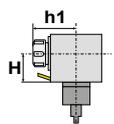


THE TECHNICAL SHEETS



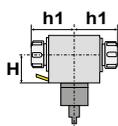
ASSIALE AXIAL

Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MS.A28	ER-32 Ø2+20	-	60	30	70	1 : 1	6.000	10		
99.MS.A29	ER-32 Ø2+20	• 80 bar	60	30	70	1 : 1	6.000	10		



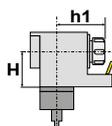
RADIALE RADIAL

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MS.A33	ER-32 Ø2+20	-	55	93,5	70	1 : 1	6.000	10		
99.MS.A34	ER-32 Ø2+20	• 80 bar	55	93,5	70	1 : 1	6.000	10		



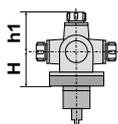
RADIALE DOPPIO RADIAL DOUBLE

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MS.A49	ER-32 / Ø2+20 / ER-32 Ø2+20	-	55	93,5	70	1 : 1	6.000	10		



RADIALE ROVESCiato RADIAL UPSIDE DOWN

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MS.A41	ER-32 Ø2+20	-	55	93,5	70	1 : 1	6.000	10		
99.MS.A42	ER-32 Ø2+20	• 80 bar	55	93,5	70	1 : 1	6.000	10		



ORIENTABILE ADJUSTABLE

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MS.A55	ER-20 Ø1+13	-	66	56	25	1 : 1	6.000	6		
99.MS.A56	ER-20 Ø1+13	• 80 bar	25	56	25	1 : 1	6.000	6		

ER Portapinza
Collet Holder

PF Portafresa
Shell Mill Holder

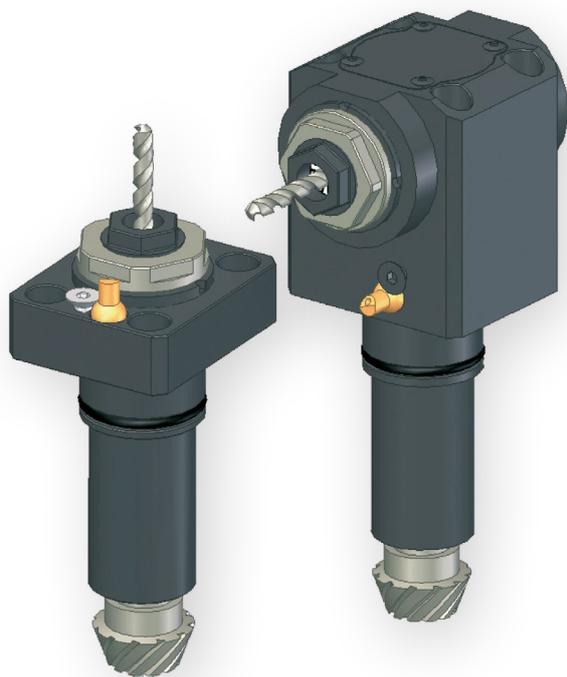
 Ugualo al Mandrino
Same as Spindle

 Opposto al Mandrino
Opposite as Spindle

 Refrigerante Interno
Internal Coolant

 Scarica il PDF
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G1 / G4



DOTAZIONE STANDARD
STANDARD EQUIPMENT



Chiave bloccaggio albero / ugello refrigerazione / vite bloccaggio ugello / viti bloccaggio motorizzato O-ring

Tool shaft lock wrench / cooling nozzle / nozzle lock screws / Driven tool locking screws / O-ring

CAMBI RAPIDI MODULARI
MODULAR QUICK CHANGE



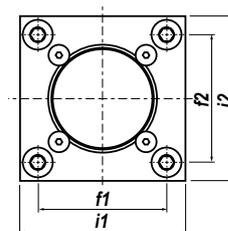
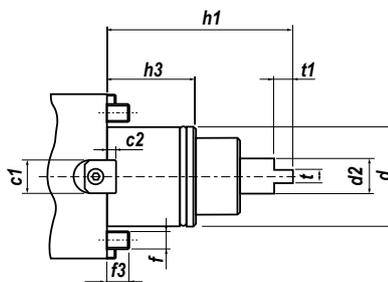
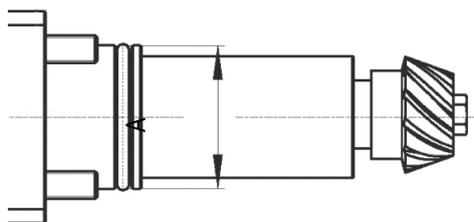
Facile e veloce sistema modulare per il cambio rapido delle diverse tipologie di portautensili con la sede per pinza ER (DIN6499).

Modular toolholder system for the fitting of toolholders in a spindle unit with ER collets (DIN6499) outputs.

Il valore della coppia, espresso in Nm, è il massimo consentito. Per una maggiore durata, si consiglia di mantenerlo sotto tale soglia
The torque value, expressed in Nm, is the maximum allowed. For longer life, it is recommended to keep it below this limit

Type	A
G1	42 h6

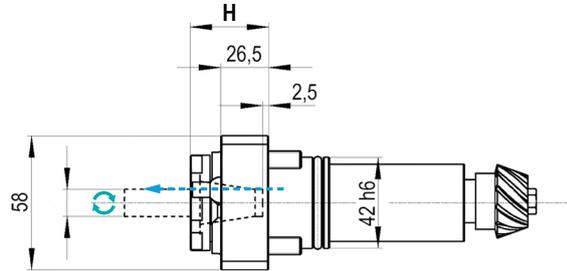
Type	d	d2	f	f1	f2	f3	h1	h3	i1	i2	t	t1
G4	Ø60	23,7	-	84	94	15	91	55	108	130	8	16,5



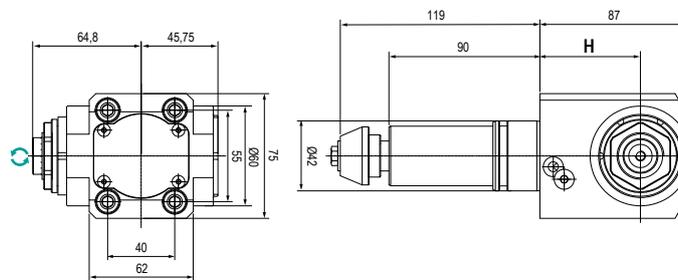
IN FASE D'ORDINE SPECIFICARE - IN CASE OF ORDER PLEASE SPECIFY:
costruttore, modello e numero posizioni in torretta - machine builder, model and turret position numbers

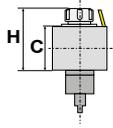


ASSIALE - AXIAL



RADIALE - RADIAL

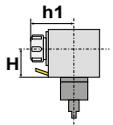




ASSIALE AXIAL

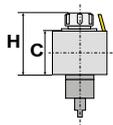

 SCAN IT TO SEE
 THE TECHNICAL SHEETS

Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.GD.A01	ER-20 Ø1÷13	-	40	26,5	25	1 : 1	6.000	6		



RADIALE RADIAL

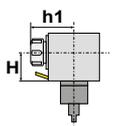
Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.GD.A02	ER-20 Ø1÷13	-	60	58	25	1 : 1	6.000	6		



ASSIALE AXIAL


 SCAN IT TO SEE
 THE TECHNICAL SHEETS

Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.GD.A07	ER-40 Ø3÷30	-	92	51,3	70	1 : 1	6.000	10		
99.GD.A08	ER-40 Ø3÷30	70 bar	92	51,3	70	1 : 1	6.000	10		



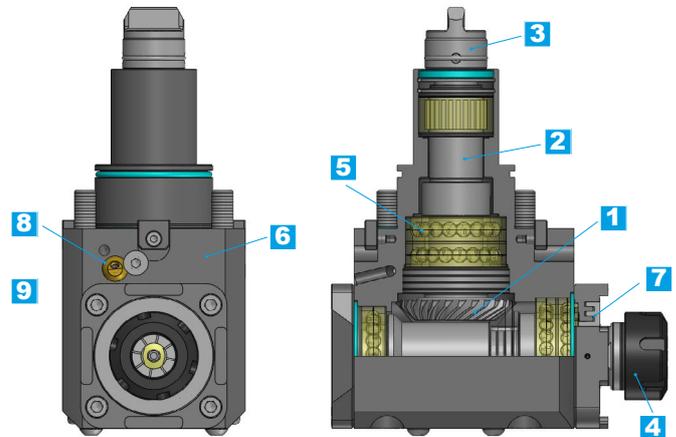
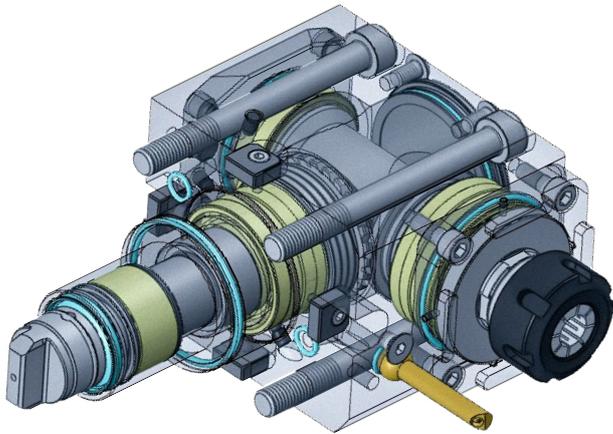
RADIALE RADIAL

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.GD.A09	ER-40 Ø3÷30	-	105.5	67	63	1 : 1	6.000	10		
99.GD.A10	ER-40 Ø3÷30	70 bar	105.5	67	63	1 : 1	6.000	10		



NUOVI MOTORIZZATI POTENZIATI DISPONIBILI !!
NEW UPGRADED DRIVEN TOOLS AVAILABLE !!

**SCARICA
IL CAPITOLO
DOWNLOAD
THE CHAPTER !!**



1 - INGRANAGGI GLEASON

Rettificati e progettati per ottimizzare la coppia in uscita e ridurre le sollecitazioni. Il moto viene trasmesso tramite due chiavette, garantendo affidabilità e precisione. La rettifica migliora la silenziosità di funzionamento grazie all'elevata accuratezza geometrica, mentre l'alta resistenza all'usura rende questi ingranaggi ideali per applicazioni ad alte prestazioni.

2 - ALBERI CEMENTATI

Gli alberi sono cementati e temprati, con successiva finitura di diametri e battute. La loro struttura è progettata per sopportare carichi elevati e sollecitazioni dinamiche ed è idonea al funzionamento in entrambi i sensi di rotazione. La geometria è studiata per garantire rigidità e stabilità anche in condizioni di lavoro gravose.

3 - TRASMISSIONE DEL MOTO

Il tenone maggiorato assicura una maggiore stabilità strutturale, riduce le vibrazioni e consente una distribuzione più uniforme delle sollecitazioni meccaniche, migliorando l'affidabilità complessiva del sistema.

4 - USCITA UTENSILE

L'albero mandrino è disponibile nelle versioni con pinza esterna o interna, oppure con alberi integrali Weldon, portafrese, HSK e altre configurazioni. Le ghiera ER garantiscono elevate prestazioni, assicurando precisione e affidabilità nel serraggio. Il sistema è inoltre predisposto per l'utilizzo del cambio rapido UNI-CHANGE.

5 - CUSCINETTI

I cuscinetti a sfere a contatto obliquo di alta qualità servono a garantire una rotazione fluida, precisa e ad alta velocità. L'accurata scelta dei componenti assicura prestazioni elevate e affidabilità nel lungo periodo.

6 - CORPO MONOBLOCCO

Realizzato in acciaio e ottimizzato per la refrigerazione interna ed esterna. È progettato con geometrie e smussi che migliorano l'ergonomia, la maneggevolezza e l'estetica complessiva.

7 - SISTEMA DI PROTEZIONE MANDRINO

Il sistema di tenuta lato mandrino adotta una configurazione a labirinto, studiata per applicazioni ad alta velocità. Si tratta di una tenuta meccanica senza contatto, basata su una sequenza di gole e camere concentriche che creano un percorso controllato per il refrigerante. In caso di infiltrazioni, la forza centrifuga generata dalla rotazione spinge il liquido verso l'esterno, dove viene espulso tramite appositi fori di drenaggio prima di raggiungere i componenti interni. Questo sistema garantisce un'elevata protezione, riduce la necessità di manutenzione e contribuisce a mantenere stabile la temperatura anche durante cicli di lavoro intensivi.

8 - UGELLI REFRIGERANTE

Sono progettati per resistere ad alte pressioni e consentono l'installazione di un tappo, permettendo una gestione flessibile e personalizzata del flusso di refrigerante.

9 - CHIAVE MANDRINO

La chiave mandrino semplifica il cambio utensile: blocca il mandrino in modo sicuro e consente all'operatore di lavorare con entrambe le mani, migliorando ergonomia, sicurezza e rapidità di intervento.

1 - GLEASON GEARS

Precision-ground Gleason gears are designed to optimize torque output and reduce mechanical stresses. Power transmission is achieved via two keys, ensuring reliability and accuracy. The grinding process enhances quiet operation thanks to precise gear geometry, while the high wear resistance makes these gears ideal for high-performance applications.

2 - CASE HARDENED SHAFTS

The shafts are case-hardened and hardened, followed by precision finishing of diameters and shoulders. Their structure is engineered to withstand high loads and dynamic stresses and is suitable for operation in both directions of rotation. The geometry ensures rigidity and stability even under heavy-duty operating conditions.

3 - MOTION TRANSMISSION

The oversized tenon provides increased structural stability, reduced vibrations, and a more uniform distribution of mechanical stresses, improving overall system reliability.

4 - TOOL OUTPUT

The spindle shaft is available in external or internal collet versions, as well as with integral shanks such as Weldon, end mill holders, HSK, and other configurations. ER nuts ensure high performance, providing precise and reliable clamping. The system is also designed for compatibility with the UNI-CHANGE quick-change system.

5 - BEARINGS

High-quality angular contact ball bearings are used to ensure smooth, precise, and high-speed rotation. Careful component selection guarantees high performance and long-term reliability.

6 - ONE-PIECE BODY

The one-piece steel body is optimized for internal and external cooling and features geometries and chamfers designed to enhance ergonomics, handling, and overall aesthetics.

7 - SPINDLE PROTECTION SYSTEM

The spindle-side sealing system adopts a labyrinth configuration, specifically designed for high-speed applications. This non-contact mechanical seal consists of a sequence of grooves and concentric chambers that create a controlled path for the coolant. In the event of infiltration, the centrifugal force generated by rotation drives the liquid outward, where it is expelled through dedicated drainage holes before reaching internal components. This system ensures excellent protection, reduces maintenance requirements, and helps maintain stable operating temperatures even during intensive duty cycles.

8 - COOLANT NOZZLES

The coolant nozzles are designed to withstand high pressures and allow the installation of a plug, enabling flexible and customized coolant flow management.

9 - SPINDLE WRENCH

The spindle wrench simplifies tool changes by securely locking the spindle, allowing the operator to work with both hands free, improving safety, ergonomics, and efficiency.



International
Haas Automation



VDI 40 - BMT 65



DOTAZIONE STANDARD
STANDARD EQUIPMENT



Chiave bloccaggio albero / chiave per bloccaggio ghiera / ugello refrigerazione / viti bloccaggio motorizzato

Shaft lock wrench / nut lock wrench cooling nozzle Art. 183 / nozzle lock screws / driven tool locking screws

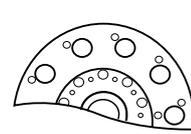
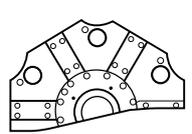
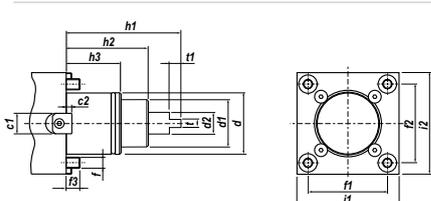
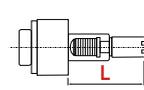
CAMBI RAPIDI MODULARI
MODULAR QUICK CHANGE



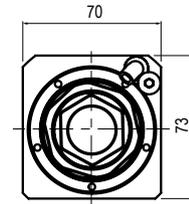
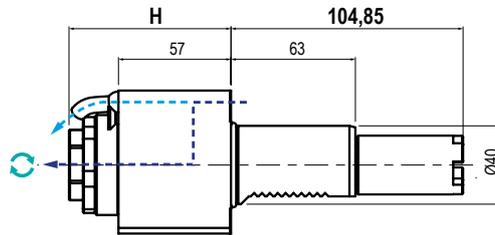
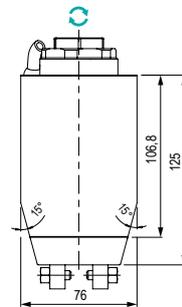
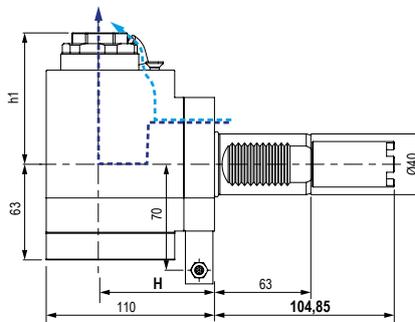
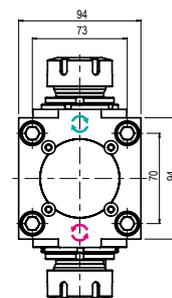
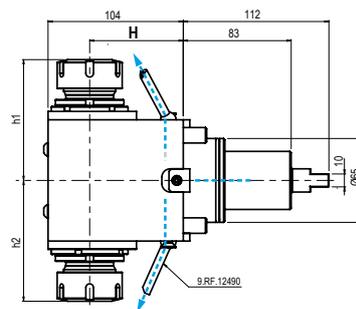
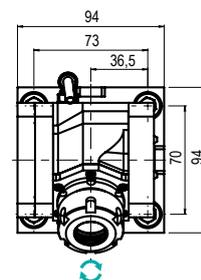
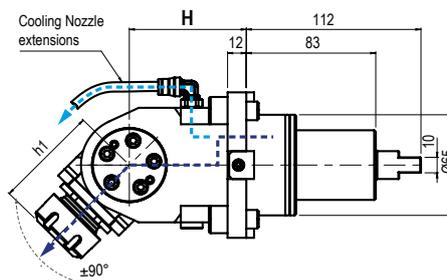
Facile e veloce sistema modulare per il cambio rapido delle diverse tipologie di portautensili con la sede per pinza ER (DIN6499).

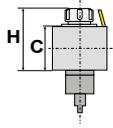
Modular toolholder system for the fitting of toolholders in a spindle unit with ER collets (DIN6499) outputs.

Il valore della coppia, espresso in Nm, è il massimo consentito. Per una maggiore durata, si consiglia di mantenerlo sotto tale soglia
The torque value, expressed in Nm, is the maximum allowed. For longer life, it is recommended to keep it below this limit

	VDI				BMT						
Modello di Torretta Type of Turret	Standard VDI 40		Ibrida - Hybrid		Haas		DS30Y / ST20Y / ST25Y / ST30Y / ST35Y				
											
Modello di tornio Type of lathe	SL20/30	SL40 ST20/30	SL20/30 TL15/25	SL40	SL20/30	SL40	c1	18	f3	15	
Preso di moto Coupling Length	L (mm)	104,85	117,55	117,55	130,25	117,55	130,25	c2	5	h1	112
Assiale / Axial			Code 99.HA.590083 99.HA.590082 99.HA.590082 99.HA.596352 99.HA.590082 99.HA.596352				d	65	h2	83	
Radiale / Radial			Code 99.HA.590085 99.HA.590084 99.HA.590084 99.HA.596353 99.HA.590084 99.HA.596353				d1	45	h3	32	
							d2	18	i1	94	
							f	M12	i2	94	
							f1	70	t	10	
							f2	73	t1	14	

IN FASE D'ORDINE SPECIFICARE - IN CASE OF ORDER PLEASE SPECIFY:
costruttore, modello e numero posizioni in torretta - machine builder, model and turret position numbers

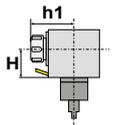

ASSIALE - AXIAL

RADIALE - RADIAL

RADIALE DOPPIO - DOUBLE RADIAL

ORIENTABILE - ADJUSTABLE




ASSIALE AXIAL

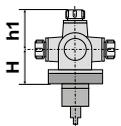


Code	Output	Int Cool.	L	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.HA.590082	ER-32 Ø2+20	-	117.55	75	57	30	1 : 1	6.000	10		↓
99.HA.590082B	ER-32 Ø2+20	• 25 bar		75	57	63	1 : 1	6.000	10		↓
99.HA.590083	ER-32 Ø2+20	-	104.85	75	57	30	1 : 1	6.000	10		↓
99.HA.590083B	ER-32 Ø2+20	• 25 bar		75	57	63	1 : 1	6.000	10		↓
99.HA.596352	ER-32 Ø2+20	-	130.25	75	57	30	1 : 1	6.000	10		↓
99.HA.596352B	ER-32 Ø2+20	• 25 bar		75	57	63	1 : 1	6.000	10		↓



RADIALE RADIAL

Code	Output	Int Cool.	L	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.HA.590084	ER-32 Ø2+20	-	117.55	75	86,6	30	1 : 1	6.000	10		↓
99.HA.590084B	ER-32 Ø2+20	• 25 bar		75	86,6	30	1 : 1	6.000	10		↓
99.HA.590085	ER-32 Ø2+20	-	104.85	75	86,6	63	1 : 1	6.000	10		↓
99.HA.590085B	ER-32 Ø2+20	• 25 bar		75	86,6	63	1 : 1	6.000	10		↓
99.HA.596353	ER-32 Ø2+20	-	130.25	75	86,6	63	1 : 1	6.000	10		↓
99.HA.596353B	ER-32 Ø2+20	• 80 bar		75	86,6	63	1 : 1	6.000	10		↓



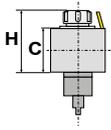
ORIENTABILE ADJUSTABLE

Code	Output	Int Cool.	L	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.HA.00U1	ER-25 Ø1+16	-	104.85	81	69,3	25	1 : 1	6.000	10		↓
99.HA.00U2	ER-25 Ø1+16	-	117.55	81	69,3	25	1 : 1	6.000	10		↓
99.HA.00U2B	ER-25 Ø1+16	• 25 bar		83	69,3	25	1 : 1	6.000	10		↓

MODELLI DI TORNIO COMPATIBILI
 COMPATIBLE LATHE TYPES

Haas

Vedi pagine compatibilità 5.10 / 5.16 - See compatibility pages 5.10 / 5.16

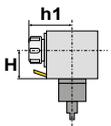

ASSIALE
AXIAL

SCAN IT TO SEE

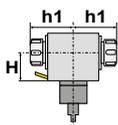


THE TECHNICAL SHEETS

Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.DS.A41	ER-32 Ø2+20	-	72.2	32	70	1 : 1	6.000	10		
99.DS.A42	ER-32 Ø2+20	• 80 bar	72.2	32	50	1 : 1	6.000	10		
99.DS.A137	ER-16 Ø1+10	• 80 bar	66	32	40	1 : 1	6.000	10		


RADIALE
RADIAL

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.DS.A51	ER-32 Ø2+20	-	72	93,6	70	1 : 1	6.000	10		
99.DS.A51C	ER-32 Ø2+20	-	72	93,6	70	1 : 1	6.000	10		
99.DS.A52	ER-32 Ø2+20	• 80 bar	72	93,6	70	1 : 1	6.000	10		
99.DS.A52C	ER-32 Ø2+20	• 80 bar	72	93,6	70	1 : 1	6.000	10		
99.DS.A73	ER-32 Ø2+20	-	100	93,6	70	1 : 1	6.000	10		
99.DS.A73C	ER-32 Ø2+20	-	100	93,6	70	1 : 1	6.000	10		
99.DS.A74	ER-32 Ø2+20	• 80 bar	100	93,6	70	1 : 1	6.000	10		
99.DS.A74C	ER-32 Ø2+20	• 80 bar	100	93,6	70	1 : 1	6.000	10		
99.DS.A30	ER-20 Ø1+13	-	72	93,6	12	1 : 4	12.000	8		
99.DS.A62	PF-22 Ø22	-	72	103,5	70	1 : 1	6.000	10		
99.DS.A62C	PF-22 Ø22	-	72	103,5	70	1 : 1	6.000	10		
99.DS.A111	PF-22 Ø22	-	100	103,5	70	1 : 1	6.000	10		
99.DS.A111C	PF-22 Ø22	-	100	103,5	70	1 : 1	6.000	10		


RADIALE DOPPIO
RADIAL DOUBLE

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.DS.A31	ER-32 / Ø2+20 / ER-32 Ø2+20	-	72	93,6	70	1 : 1	6.000	10		
99.DS.A78	ER-32 / Ø2+20 / ER-32 Ø2+20	-	100	93,6	70	1 : 1	6.000	10		

ER Portapinza
Collet Holder

PF Portafresa
Shell Mill Holder

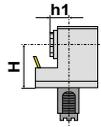
 Ugualo al Mandrino
Same as Spindle

 Opposto al Mandrino
Opposite as Spindle

 Refrigerante Interno
Internal Coolant

 Scarica il PDF
PDF Download

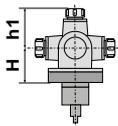
Vedi pagine compatibilità 5.10 / 5.16 - See compatibility pages 5.10 / 5.16



RADIALE ARRETRATO RADIAL OFFSET



Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.DS.A125	ER-32 Ø2÷20	-	100	53,4	40	1 : 1	6.000	10		

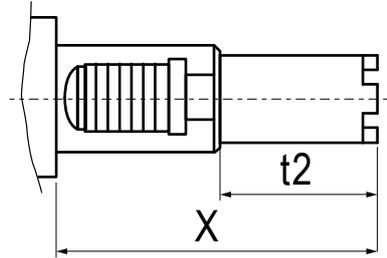


ORIENTABILE ADJUSTABLE

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.DS.A64	ER-25 Ø1÷16	-	75	67,2	25	1 : 1	6.000	4		
99.DS.A65	ER-25 Ø1÷16	• 80 bar	75	67,2	25	1 : 1	6.000	4		

ACCESSORI HAAS

HAAS ACCESSORIES



Presa di moto intercambiabile per le varie tipologie di torrette HAAS
 Interchangeable couplings for the different HAAS turret

Code	t2	X	€
99.HA.00001	41,85	104,85	109
99.HA.00002	54,55	117,55	109
99.HA.00003	67,25	130,25	109

QTN 1/2/3 - QTS 1 - HQ



USCITA C. ISO26623
C. ISO26623 OUTPUT

Disponibile su richiesta
Available on request



DOTAZIONE STANDARD
STANDARD EQUIPMENT

Chiave bloccaggio albero / chiave per bloccaggio ghiera / ugello refrigerazione / viti bloccaggio motorizzato

Shaft lock wrench / nut lock wrench cooling nozzle Art.183 / nozzle lock screws / driven tool locking screws



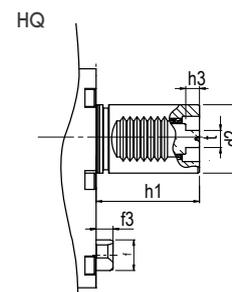
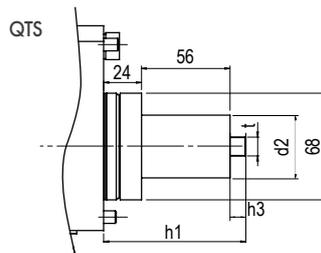
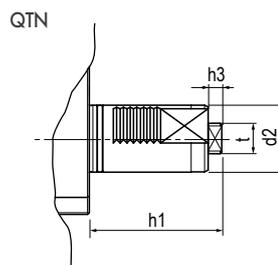
CAMBI RAPIDI MODULARI
MODULAR QUICK CHANGE

Facile e veloce sistema modulare per il cambio rapido delle diverse tipologie di portautensili con la sede per pinza ER (DIN6499).

Modular toolholder system for the fitting of toolholders in a spindle unit with ER collets (DIN6499) outputs.

Il valore della coppia, espresso in Nm, è il massimo consentito. Per una maggiore durata, si consiglia di mantenerlo sotto tale soglia
The torque value, expressed in Nm, is the maximum allowed. For longer life, it is recommended to keep it below this limit

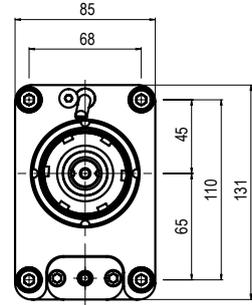
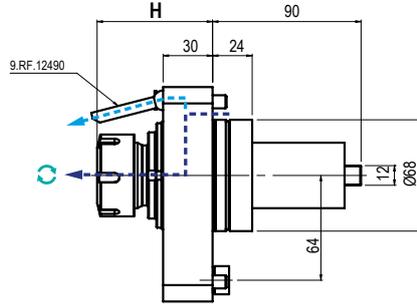
TYPE	D2	H1	H3	T	f	f3
QTN1	Ø40	61	1	10	-	-
QTN2	Ø40	70	8	18	-	-
QTN3	Ø50	75	10	12	-	-
QTS	Ø40	90	10	12	-	-
HQ	Ø40	60	8	10	Ø20	9,8



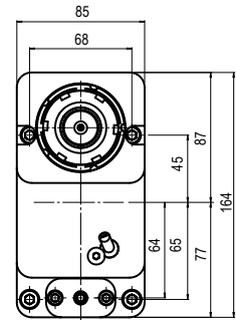
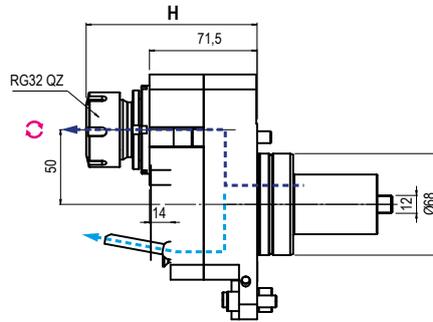
IN FASE D'ORDINE SPECIFICARE - IN CASE OF ORDER PLEASE SPECIFY:
costruttore, modello e numero posizioni in torretta - machine builder, model and turret position numbers



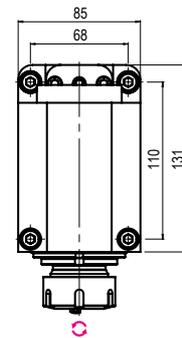
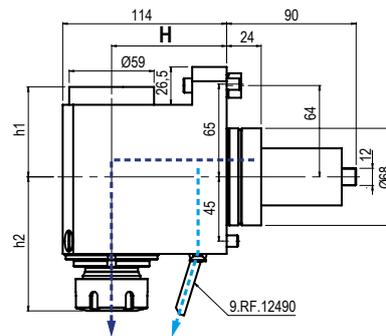
ASSIALE - AXIAL



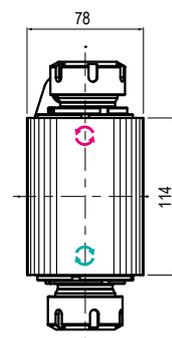
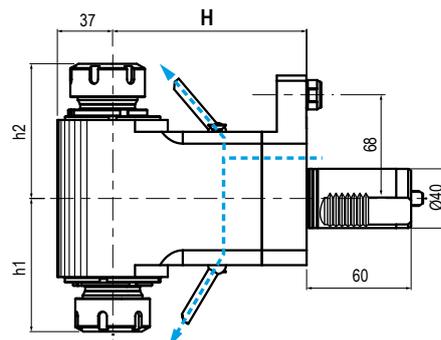
ASSIALE DISASSATO - OFFSET AXIS



RADIALE - RADIAL

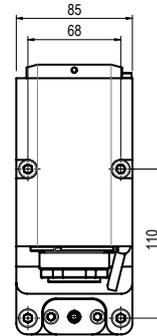
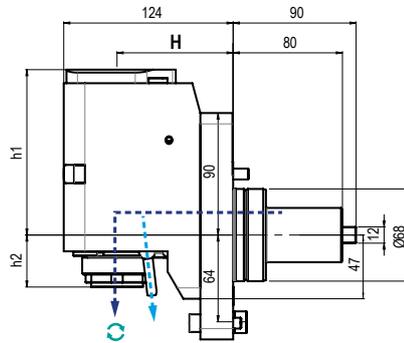


RADIALE DOPPIO - DOUBLE RADIAL

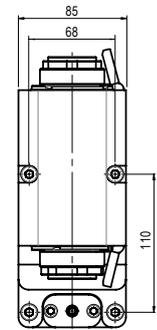
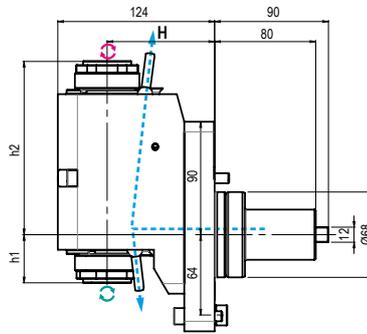




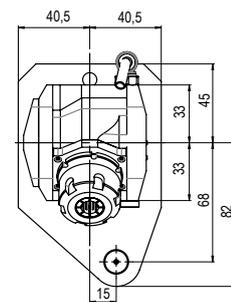
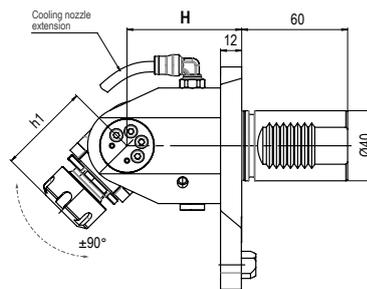
RADIALE DISASSATO - RADIAL REAR OFFSET

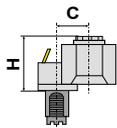


RADIALE DISASSATO DOPPIO - RADIAL BOTH SIDE REAR OFFSET



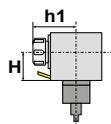
ORIENTABILE - ADJUSTABLE





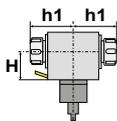
ASSIALE DISASSATO AXIAL OFFSET

Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MZ.A40	ER-25 Ø1+16	-	120	107	30	1 : 1	6.000			
99.MZ.A41	ER-25 Ø1+16	• 80 bar	120	107	30	1 : 1	6.000			



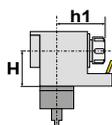
RADIALE RADIAL

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw	€
99.MZ.A46	ER-25 Ø1+16	-	100	93,8	50	1 : 1	6.000				2.507
99.MZ.A47	ER-25 Ø1+16	• 80 bar	100	93,8	30	1 : 1	6.000				2.833



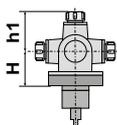
RADIALE DOPPIO RADIAL DOUBLE

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MZ.A55	ER-25 / Ø1+16 / ER-25 Ø1+16	-	100	93,8	30	1 : 1	6.000			



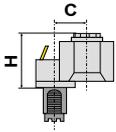
RADIALE ROVESCiato RADIAL UPSIDE DOWN

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MZ.A48	ER-25 Ø1+16	-	100	93,8	30	1 : 1	6.000			
99.MZ.A49	ER-25 Ø1+16	• 80 bar	100	93,8	63	1 : 1	6.000			



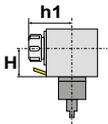
ORIENTABILE ADJUSTABLE

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MZ.A56	ER-20 Ø1+13	-	81	67,5	25	1 : 1	6.000			



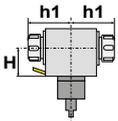
ASSIALE DISASSATO AXIAL OFFSET

Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MZ.A58	ER-32 Ø2+20	-	120	50	30	1 : 1	6.000			
99.MZ.A59	ER-32 Ø2+20	• 80 bar	120	50	80	1 : 1	6.000			
99.MZ.A69	PF-22 Ø22	-			30	1 : 1	6.000			



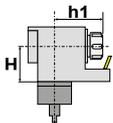
RADIALE RADIAL

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MZ.A65	ER-32 Ø2+20	-	130	93,8	80	1 : 1	6.000			
99.MZ.A66	ER-32 Ø2+20	• 80 bar	130	93,8	80	1 : 1	6.000			
99.MZ.A62	PF-22 Ø22	-	130	103	80	1 : 1	6.000			



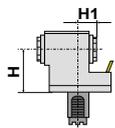
RADIALE DOPPIO RADIAL DOUBLE

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MZ.A73	ER-32 / Ø2+20 / ER-32 Ø2+20	-	130	93,8	80	1 : 1	6.000			



RADIALE ROVESCiato RADIAL UPSIDE DOWN

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MZ.A67	ER-32 Ø2+20	-	130	93,8	80	1 : 1	6.000			
99.MZ.A68	ER-32 Ø2+20	• 80 bar	130	93,8	80	1 : 1	6.000			
99.MZ.A63	PF-22 Ø22	-	130	53	80	1 : 1	6.000			



RADIALE DOPPIO ARRETRATO

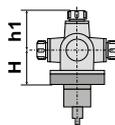
RADIAL DOUBLE OFFSET

SCAN IT TO SEE



THE TECHNICAL SHEETS

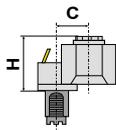
Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MZ.A70	ER-32 / Ø2÷20 / ER-32 Ø2÷20	-	130	93,8	30	1 : 1	6.000			



ORIENTABILE

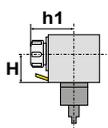
ADJUSTABLE

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MZ.A74	ER-25 Ø1÷16	-	85		80	1 : 1	6.000			
99.MZ.A64	ER-25 Ø1÷16	• 80 bar	85		80	1 : 1	6.000			



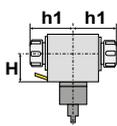
ASSIALE DISASSATO AXIAL OFFSET

Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MZ.A71	ER-40 Ø3+30	-	145	75	70	1 : 1	4.000			
99.MZ.A72	ER-40 Ø3+30	• 80 bar	145	75	70	1 : 1	4.000			
99.MZ.A76	ISO-40	-	92.5	75	70	1 : 1	4.000			
99.MZ.A79	ISO-40	• 80 bar	125	75	70	1 : 1	4.000			



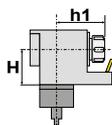
RADIALE RADIAL

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MZ.A75	ER-40 Ø3+30	-	160		100	1 : 1	4.000			
99.MZ.A81	ER-40 Ø3+30	• 80 bar	160		100	1 : 1	4.000			
99.MZ.A77	ISO-40	-	160	73	70	1 : 1	4.000			
99.MZ.A78	ISO-40	• 80 bar	160	73	70	1 : 1	4.000			



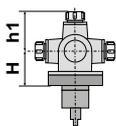
RADIALE DOPPIO RADIAL DOUBLE

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MZ.A84	ER-40 / Ø3+30 / ER-40 Ø3+30	-	160		100	1 : 1	4.000			



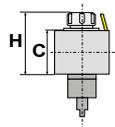
RADIALE ROVESCiato RADIAL UPSIDE DOWN

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MZ.A82	ER-40 Ø3+30	-	160		100	1 : 1	4.000			



ORIENTABILE ADJUSTABLE

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MZ.A80	ER-32 Ø2+20	-	85	67,5	20	1 : 1	6.000			



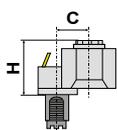
ASSIALE AXIAL

SCAN IT TO SEE



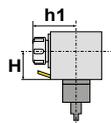
THE TECHNICAL SHEETS

Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MZ.A03	ER-32 Ø2+20	-	70	30	60	1 : 1	6.000	10		
99.MZ.A06	ER-32 Ø2+20	• 80 bar	70	30	60	1 : 1	6.000	10		



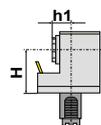
ASSIALE DISASSATO AXIAL OFFSET

Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MZ.A04	ER-32 Ø2+20	-	113.5	71,5	60	1 : 1	6.000	10		
99.MZ.A05	ER-32 Ø2+20	• 80 bar	113.5	71,5	60	1 : 1	6.000	10		



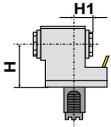
RADIALE RADIAL

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MZ.A09	ER-32 Ø2+20	-	80	50,5	60	1 : 1	6.000	10		
99.MZ.A10	ER-32 Ø2+20	• 80 bar	80	63	60	1 : 1	6.000	10		



RADIALE ARRETRATO RADIAL OFFSET

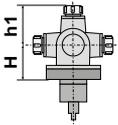
Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MZ.A17	ER-32 Ø2+20	-	85	38,4	60	1 : 1	6.000	10		
99.MZ.A18	ER-32 Ø2+20	• 80 bar	85	38,4	60	1 : 1	6.000	10		



RADIALE DOPPIO ARRETRATO

RADIAL DOUBLE OFFSET

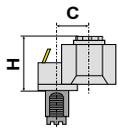
Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MZ.A13	ER-32 / Ø2+20 / ER-32 Ø2+20	-	85	38,4	60	1 : 1	6.000	10		



ORIENTABILE

ADJUSTABLE

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MZ.A14	ER-25 Ø1+16	-	80	67,2	30	1 : 1	6.000	4		
99.MZ.A15	ER-25 Ø1+16	• 80 bar	80	67,2	30	1 : 1	6.000	4		



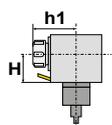
ASSIALE DISASSATO AXIAL OFFSET

SCAN IT TO SEE



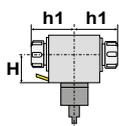
THE TECHNICAL SHEETS

Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MZ.A30	ER-25 Ø1÷16	-	116	50	50	1 : 1	6.000	8		↓
99.MZ.A31	ER-25 Ø1÷16	• 80 bar	116	50	50	1 : 1	6.000	8		↓



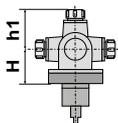
RADIALE RADIAL

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MZ.A36	ER-25 Ø1÷16	-	115	87,5	50	1 : 1	6.000	8		↓
99.MZ.A37	ER-25 Ø1÷16	• 80 bar	115	87,5	30	1 : 1	6.000	8		↓



RADIALE DOPPIO RADIAL DOUBLE

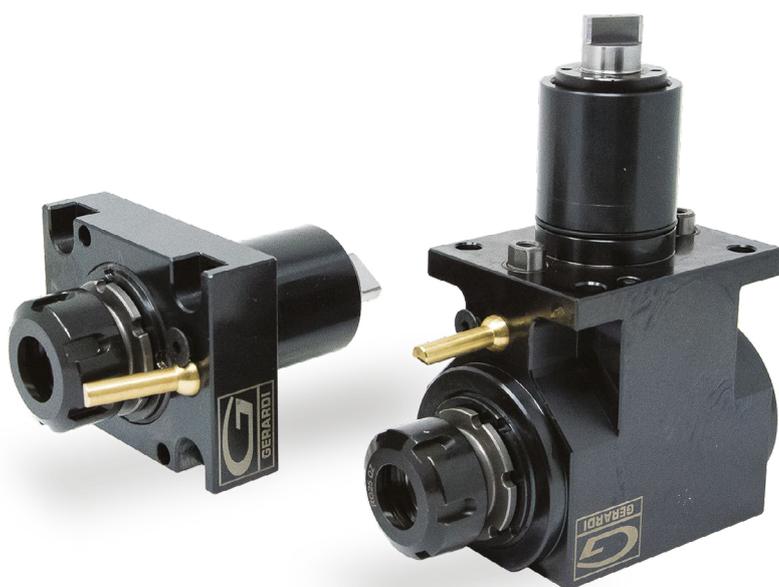
Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MZ.A35	ER-25 Ø1÷16	-	115	87,5	50	1 : 1	6.000	8		↓



ORIENTABILE ADJUSTABLE

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MZ.A38	ER-20 Ø1÷13	• 80 bar	65	67,2	15	1 : 1	6.000	3		↓

Ø38 / Ø45 / Ø54



DOTAZIONE STANDARD STANDARD EQUIPMENT



Chiave bloccaggio albero / chiave per bloccaggio ghiera / ugello refrigerazione / viti bloccaggio motorizzato

Shaft lock wrench / nut lock wrench cooling nozzle Art.183 / nozzle lock screws / driven tool locking screws

CAMBI RAPIDI MODULARI MODULAR QUICK CHANGE

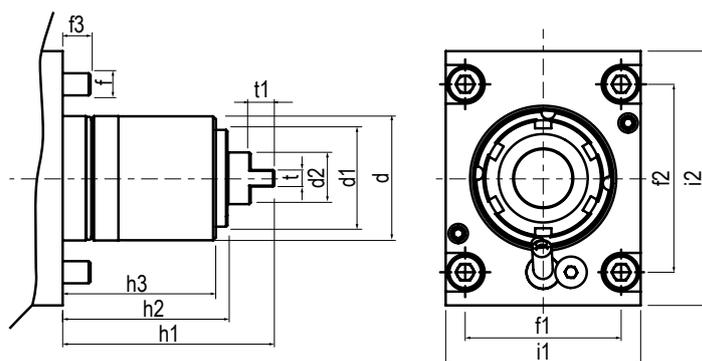


Facile e veloce sistema modulare per il cambio rapido delle diverse tipologie di portautensili con la sede per pinza ER (DIN6499).

Modular toolholder system for the fitting of toolholders in a spindle unit with ER collets (DIN6499) outputs.

Il valore della coppia, espresso in Nm, è il massimo consentito. Per una maggiore durata, si consiglia di mantenerlo sotto tale soglia
The torque value, expressed in Nm, is the maximum allowed. For longer life, it is recommended to keep it below this limit

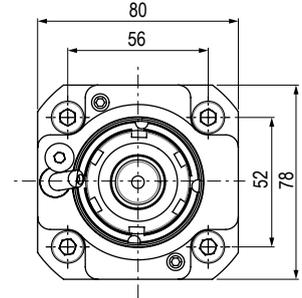
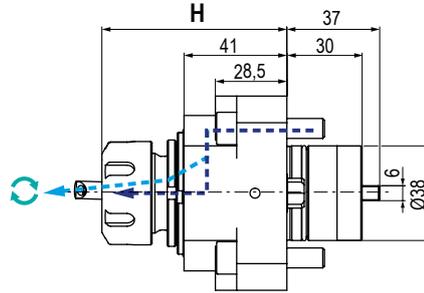
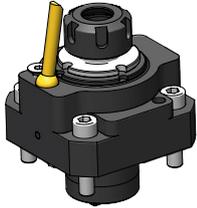
Type	d	d1	d2	f	f1	f2	f3	h1	h2	h3	i1	i2	t	t1
Ø38	38	-	-	M6	52	56	7	37	-	30	78	78	6	7
Ø45	45	35	19	M8	56	68	10	76	59	55	92	70	12	8,5
Ø54	54	-	24	M8	75	60	10	72	50	40	90	100	8	12



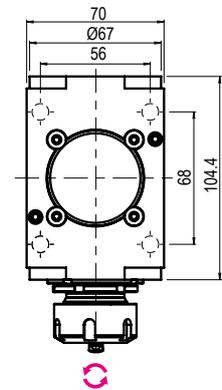
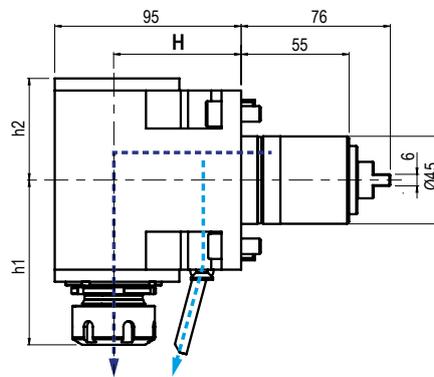
IN FASE D'ORDINE SPECIFICARE - IN CASE OF ORDER PLEASE SPECIFY:
costruttore, modello e numero posizioni in torretta - machine builder, model and turret position numbers



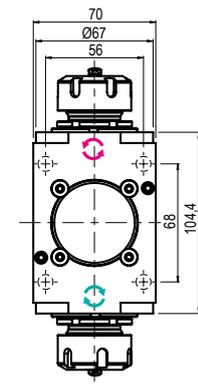
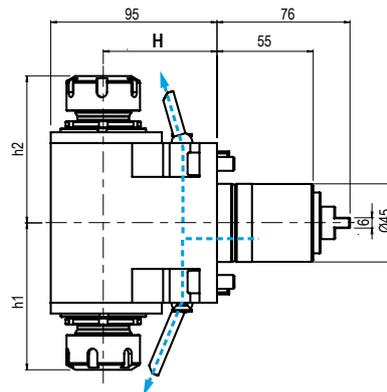
ASSIALE - AXIAL



RADIALE - RADIAL

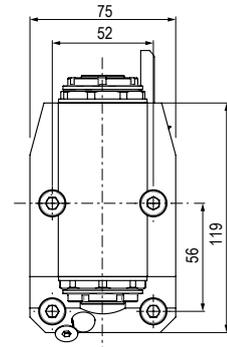
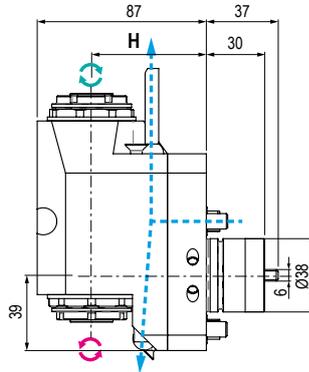


RADIALE DOPPIO - DOUBLE RADIAL

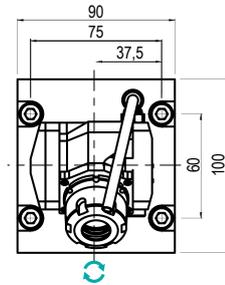
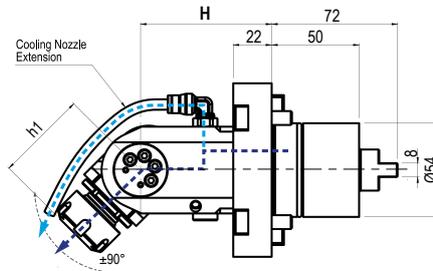


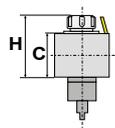


RADIALE DISASSATO DOPPIO - RADIAL BOTH SIDE REAR OFFSET



ORIENTABILE - ADJUSTABLE





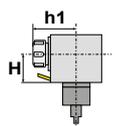
ASSIALE AXIAL

SCAN IT TO SEE



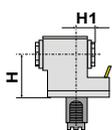
THE TECHNICAL SHEETS

Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MY.A21	ER-25 Ø1÷16	-	73.7	41	20	1 : 1	6.000	6		↓
99.MY.A22	ER-25 Ø1÷16	• 70 bar	73.7	41	20	1 : 1	6.000	6		↓
99.MY.A41	ER-20 Ø1÷13	-	71.2	41	20	1 : 1	6.000	6		↓
99.MY.A42	ER-20 Ø1÷13	• 70 bar	71.2	41	20	1 : 1	6.000	6		↓
99.MY.A35	ER-16 Ø1÷10	-	56.3	41	6	1 : 1	6.000	1.8		↓
99.MY.A40	ER-16 Ø1÷10	• 70 bar	56.3	41	25	1 : 1	6.000	1.8		↓



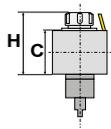
RADIALE RADIAL

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MY.A33	ER-20 Ø1÷13	-	59	62	16	1 : 1	6.000	1.8		↓
99.MY.A34	ER-20 Ø1÷13	• 70 bar	59	62	16	1 : 1	6.000	1.8		↓



RADIALE DOPPIO ARRETRATO RADIAL DOUBLE OFFSET

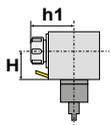
Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MY.A38	ER-16 Ø1÷10	-	59	39	16	1 : 1	6.000	10		↓
99.MY.A39	ER-20 Ø1÷13	-	59	39	16	1 : 1	6.000	10		↓



ASSIALE AXIAL

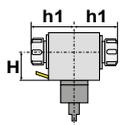


Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MY.A02	ER-25 Ø1+16	-	57.6	25	35	1 : 1	6.000	6		↓
99.MY.A03	ER-25 Ø1+16	• 80 bar	57.6	25	35	1 : 1	6.000	6		↓
99.MY.A15	ER-32 Ø2+20	-	64.3	25	35	1 : 1	6.000	6		↓
99.MY.A16	ER-32 Ø2+20	• 80 bar	64.3	25	35	1 : 1	6.000	6		↓
99.MY.A01	ER-16 Ø1+10	-	94.5	68	6	1 : 4	24.000	3		↓
99.MY.A14	PF-16 Ø16	-	68.5	25	35	1 : 1	6.000	6		↓



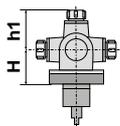
RADIALE RADIAL

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MY.A05	ER-25 Ø1+16	-	65	84,6	35	1 : 1	6.000	6		↓
99.MY.A06	ER-25 Ø1+16	• 80 bar	65	84,6	35	1 : 1	6.000	6		↓
99.MY.A04	ER-16 Ø1+10	-	65	69,7	6	1 : 4	24.000	6		↓
99.MY.A17	PF-16 Ø16	-	65	95,6	35	1 : 1	6.000	6		↓



RADIALE DOPPIO RADIAL DOUBLE

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MY.A07	ER-25 / Ø1+16 / ER-25 Ø1+16	-	65	84,6	35	1 : 1	6.000	6		↓



ORIENTABILE ADJUSTABLE

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MY.A08	ER-20 Ø1+13	-	65	52,5	15	1 : 1	6.000	3		↓
99.MY.A13	ER-20 Ø1+13	• 80 bar	65	52,5	15	1 : 1	6.000	3		↓

ER Portapinza
Collet Holder

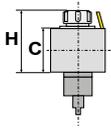
PF Portafresa
Shell Mill Holder

 Ugualo al Mandrino
Same as Spindle

 Opposto al Mandrino
Opposite as Spindle

 Refrigerante Interno
Internal Coolant

 Scarica il PDF
PDF Download



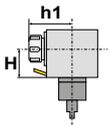
ASSIALE AXIAL

SCAN IT TO SEE



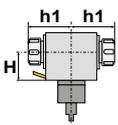
THE TECHNICAL SHEETS

Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MY.A24	ER-25 Ø1+16	-	77.2	30	60	1 : 1	6.000	10		↓
99.MY.A25	ER-25 Ø1+16	• 80 bar	77.2	30	60	1 : 1	6.000	10		↓
99.MY.A09	ER-32 Ø2+20	-	79.4	30	60	1 : 1	6.000	10		↓
99.MY.A10	ER-32 Ø2+20	• 80 bar	79.4	30	60	1 : 1	6.000	10		↓
99.MY.A26	ER-16 Ø1+10	-	94.5	68	6	1 : 4	24.000	3		↓
99.MY.A27	PF-22 Ø22	-	100	25	60	1 : 1	6.000	10		↓



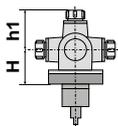
RADIALE RADIAL

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MY.A28	ER-25 Ø1+16	-	75	91	60	1 : 1	6.000	10		↓
99.MY.A29	ER-25 Ø1+16	• 80 bar	75	91	60	1 : 1	6.000	10		↓
99.MY.A11	ER-32 Ø2+20	-	75	94	60	1 : 1	6.000	10		↓
99.MY.A12	ER-32 Ø2+20	• 80 bar	75	94	50	1 : 1	6.000	10		↓



RADIALE DOPPIO RADIAL DOUBLE

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MY.A18	ER-32 / Ø2+20 / ER-32 Ø2+20	-	75	93,9	60	1 : 1	6.000	10		↓



ORIENTABILE ADJUSTABLE

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.MY.A19	ER-20 Ø1+13	-	75	52,2	15	1 : 1	6.000	3		↓
99.MY.A20	ER-20 Ø1+13	• 80 bar	75	52,2	15	1 : 1	6.000	3		↓

ER Portapinza
Collet Holder

PF Portafresa
Shell Mill Holder

 Ugualo al Mandrino
Same as Spindle

 Opposto al Mandrino
Opposite as Spindle

 Refrigerante Interno
Internal Coolant

 Scarica il PDF
PDF Download



Nakamura-Tome



BMT 44 - BMT 55 - BMT 65



DOTAZIONE STANDARD
STANDARD EQUIPMENT



Chiave bloccaggio albero / ugello refrigerazione / vite bloccaggio ugello / viti bloccaggio motorizzato O-ring

Tool shaft lock wrench / cooling nozzle / nozzle lock screws / Driven tool locking screws / O-ring

CAMBI RAPIDI MODULARI
MODULAR QUICK CHANGE

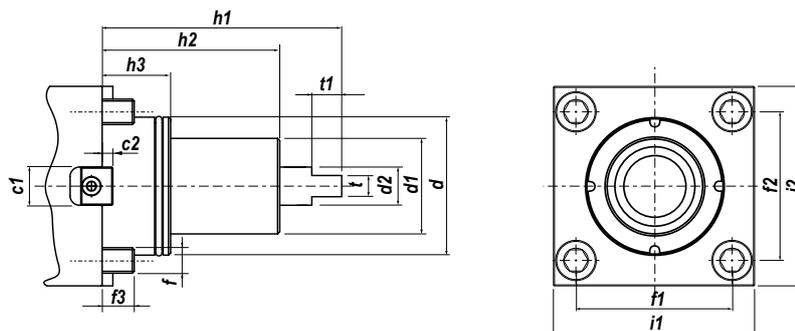


Facile e veloce sistema modulare per il cambio rapido delle diverse tipologie di portautensili con la sede per pinza ER (DIN6499).

Modular toolholder system for the fitting of toolholders in a spindle unit with ER collets (DIN6499) outputs.

Il valore della coppia, espresso in Nm, è il massimo consentito. Per una maggiore durata, si consiglia di mantenerlo sotto tale soglia
The torque value, expressed in Nm, is the maximum allowed. For longer life, it is recommended to keep it below this limit

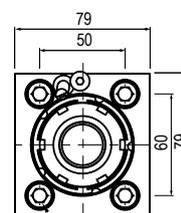
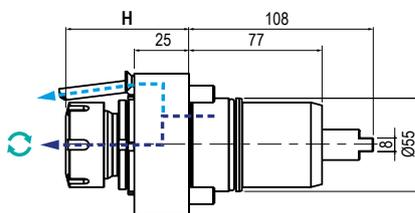
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BMT44	20	5,5	44	40	15	M8	40	55	12-15	91	63	28	62	79,5	8	12
BMT55	20	5,5	55	50	17	M10	50	60	12-15	108	70	29,5	79	84	8	10
BMT65	20	5,5	65	-	-	-	69	71	12-15	115,5	-	31	92	100	10	-



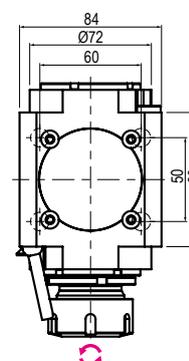
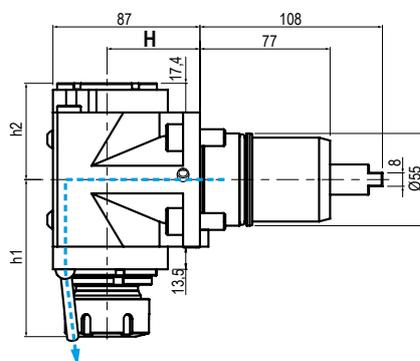
IN FASE D'ORDINE SPECIFICARE - IN CASE OF ORDER PLEASE SPECIFY:
costruttore, modello e numero posizioni in torretta - machine builder, model and turret position numbers



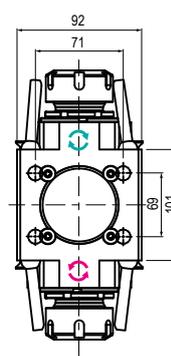
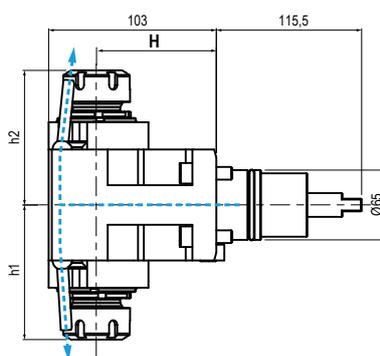
ASSIALE - AXIAL



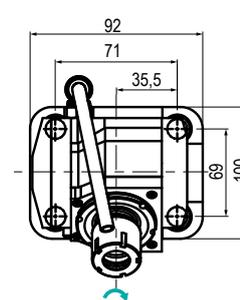
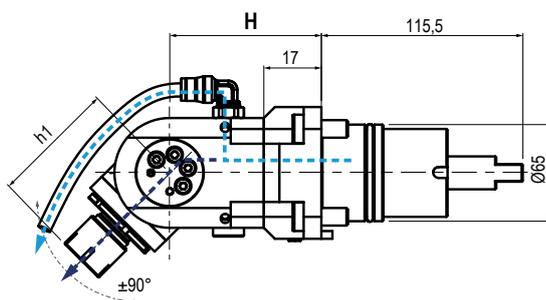
RADIALE - RADIAL

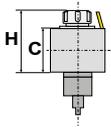


RADIALE DOPPIO - DOUBLE RADIAL



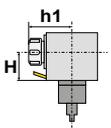
ORIENTABILE - ADJUSTABLE





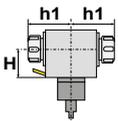
ASSIALE AXIAL

Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.NK.A40	ER-25 Ø1÷16	-	57.2	25	40	1 : 1	6.000	6		
99.NK.A43	ER-25 Ø1÷16	• 70 bar	57.2	25	40	1 : 1	6.000	6		



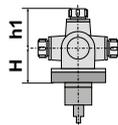
RADIALE RADIAL

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.NK.A50	ER-25 Ø1÷16	-	60	84,9	40	1 : 1	6.000	6		
99.NK.A53	ER-25 Ø1÷16	• 70 bar	60	84,9	40	1 : 1	6.000	6		
99.NK.A30	ER-25 Ø1÷16	-	75	84,9	40	1 : 1	6.000	6		
99.NK.A33	ER-25 Ø1÷16	• 70 bar	75	84,9	40	1 : 1	6.000	6		
99.NK.A36	ER-16 Ø1÷10	-	60	69,7	6	1 : 4	6.000	3		



RADIALE DOPPIO RADIAL DOUBLE

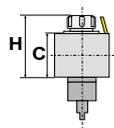
Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.NK.A70	ER-25 / Ø1÷16 / ER-25 Ø1÷16	-	60	84,9	40	1 : 1	6.000	6		
99.NK.A80	ER-25 / Ø1÷16 / ER-25 Ø1÷16	-	75	84,9	40	1 : 1	6.000	6		



ORIENTABILE ADJUSTABLE

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.NK.A59	ER-16 Ø1÷10	-	68.5	56,5	10	1 : 1	6.000	2		
99.NK.A69	ER-16 Ø1÷10	• 70 bar	68.5	56,5	10	1 : 1	6.000	2		

Vedi pagine compatibilità 5.10 / 5.16 - See compatibility pages 5.10 / 5.16



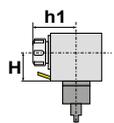
ASSIALE AXIAL

SCAN IT TO SEE



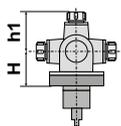
THE TECHNICAL SHEETS

Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.NK.A01	ER-25 Ø1+16	-	57.2	25	63	1 : 1	6.000	10		
99.NK.A02	ER-25 Ø1+16	• 70 bar	57.2	25	63	1 : 1	6.000	10		
99.NK.A03	ER-32 Ø2+20	-	72.2	25	63	1 : 1	6.000	10		
99.NK.A04	ER-32 Ø2+20	• 70 bar	72.2	25	63	1 : 1	6.000	10		



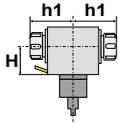
RADIALE RADIAL

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.NK.A20	ER-25 Ø1+16	-	55	86,2	63	1 : 1	6.000	10		
99.NK.A13	ER-32 Ø2+20	-	55	93,7	63	1 : 1	6.000	10		
99.NK.A05	ER-25 Ø1+16	-	65	86,2	63	1 : 1	6.000	10		
99.NK.A23	ER-32 Ø2+20	-	65	93,7	63	1 : 1	6.000	10		
99.NK.A07	ER-25 Ø1+16	-	75	86,2	63	1 : 1	6.000	10		
99.NK.A15	ER-32 Ø2+20	-	75	93,7	63	1 : 1	6.000	10		
99.NK.A25	ER-25 Ø1+16	• 70 bar	55	86,2	63	1 : 1	6.000	10		
99.NK.A14	ER-32 Ø2+20	• 70 bar	55	93,7	63	1 : 1	6.000	10		
99.NK.A06	ER-25 Ø1+16	• 70 bar	65	86,2	63	1 : 1	6.000	10		
99.NK.A24	ER-32 Ø2+20	• 70 bar	65	93,7	63	1 : 1	6.000	10		
99.NK.A08	ER-25 Ø1+16	• 70 bar	75	86,2	63	1 : 1	6.000	10		
99.NK.A16	ER-32 Ø2+20	• 70 bar	75	93,7	63	1 : 1	6.000	10		



ORIENTABILE ADJUSTABLE

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.NK.A22	ER-20 Ø1+13	-	71	52,5	15	1 : 1	6.000	3		
99.NK.A32	ER-20 Ø1+13	• 70 bar	71	52,5	15	1 : 1	6.000	3		



RADIALE DOPPIO

RADIAL DOUBLE

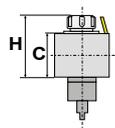
SCAN IT TO SEE



THE TECHNICAL SHEETS

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.NK.A09	ER-25 Ø1+16	-	55	86,2	63	1 : 1	6.000	10		
99.NK.A71	ER-32 / Ø2+20 / ER-32 Ø2+20	-	55	93,7	63	1 : 1	6.000	10		
99.NK.A10	ER-25 Ø1+16	-	65	86,2	63	1 : 1	6.000	10		
99.NK.A81	ER-32 / Ø2+20 / ER-32 Ø2+20	-	65	93,7	63	1 : 1	6.000	10		
99.NK.A11	ER-25 Ø1+16	-	75	86,2	63	1 : 1	6.000	10		
99.NK.A91	ER-32 / Ø2+20 / ER-32 Ø2+20	-	75	93,7	63	1 : 1	6.000	10		

Vedi pagine compatibilità 5.10 / 5.16 - See compatibility pages 5.10 / 5.16



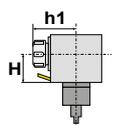
ASSIALE AXIAL

SCAN IT TO SEE



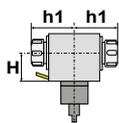
THE TECHNICAL SHEETS

Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.NK.A51	ER-32 Ø2+20	-	77.9	38,5	63	1 : 1	6.000	10		↓
99.NK.A52	ER-32 Ø2+20	• 70 bar	77.9	38,5	63	1 : 1	6.000	10		↓



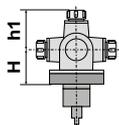
RADIALE RADIAL

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.NK.A58	ER-32 Ø2+20	-	65	93,9	63	1 : 1	6.000	10		↓
99.NK.A62	ER-32 Ø2+20	• 70 bar	65	93,9	63	1 : 1	6.000	10		↓
99.NK.A12	ER-32 Ø2+20	-	80	93,9	63	1 : 1	6.000	10		↓
99.NK.A17	ER-32 Ø2+20	• 70 bar	80	93,9	63	1 : 1	6.000	10		↓



RADIALE DOPPIO RADIAL DOUBLE

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.NK.A78	ER-32 / Ø2+20 / ER-32 Ø2+20	-	65	93,9	63	1 : 1	6.000	10		↓



ORIENTABILE ADJUSTABLE

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.NK.A82	ER-25 Ø1+16	-	75	67,2	15	1 : 1	6.000	4		↓
99.NK.A19	ER-25 Ø1+16	• 70 bar	80	67,2	15	1 : 1	6.000	4		↓

VDI 30 - VDI 40 - BMT 55 / 60



USCITA C. ISO26623
C. ISO26623 OUTPUT

Disponibile su richiesta
Available on request



DOTAZIONE STANDARD
STANDARD EQUIPMENT

Chiave bloccaggio albero / ugello refrigerazione / vite bloccaggio ugello / viti bloccaggio motorizzato O-ring

Tool shaft lock wrench / cooling nozzle / nozzle lock screws / Driven tool locking screws / O-ring



CAMBI RAPIDI MODULARI
MODULAR QUICK CHANGE

Facile e veloce sistema modulare per il cambio rapido delle diverse tipologie di portautensili con la sede per pinza ER (DIN6499).

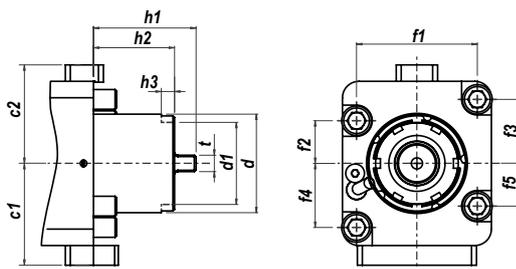
Modular toolholder system for the fitting of toolholders in a spindle unit with ER collets (DIN6499) outputs.

Il valore della coppia, espresso in Nm, è il massimo consentito. Per una maggiore durata, si consiglia di mantenerlo sotto tale soglia
The torque value, expressed in Nm, is the maximum allowed. For longer life, it is recommended to keep it below this limit

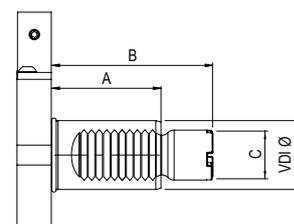
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BMT55	-	-	Ø55	-	65	40	40	40	40	102	64	-	10
BMT60	62	60	Ø60	50	73	26	39	39	26	62	49	8	10

Type	A	B	C
VDI 30	55	69	Ø29
VDI 40	63	93	Ø29

BMT



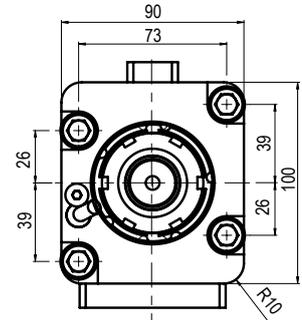
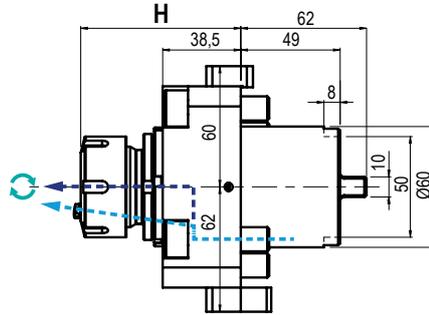
VDI



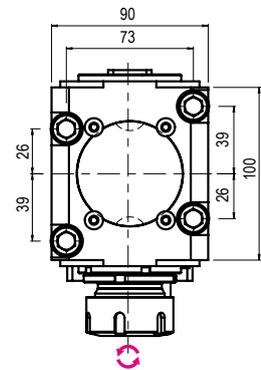
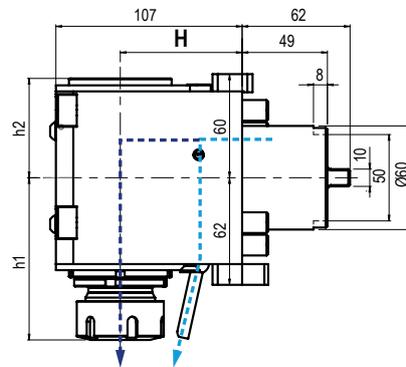
IN FASE D'ORDINE SPECIFICARE - IN CASE OF ORDER PLEASE SPECIFY:
costruttore, modello e numero posizioni in torretta - machine builder, model and turret position numbers



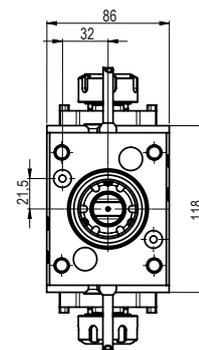
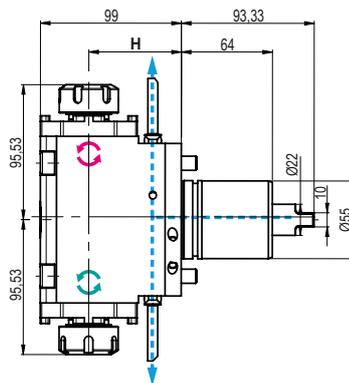
ASSIALE - AXIAL



RADIALE - RADIAL

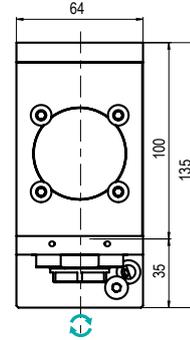
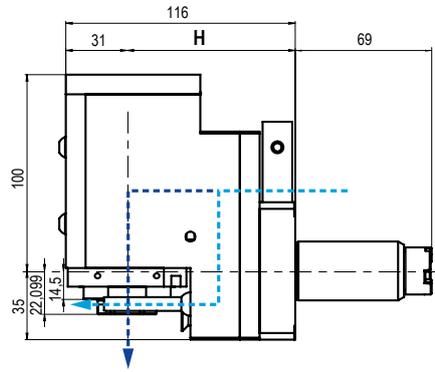


RADIALE DOPPIO - DOUBLE RADIAL

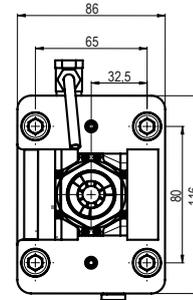
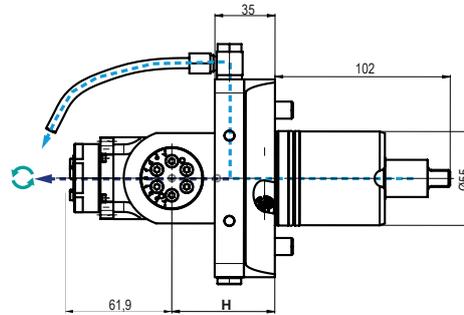
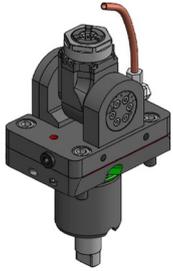




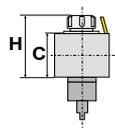
RADIALE DISASSATO - RADIAL REAR OFFSET



ORIENTABILE - ADJUSTABLE



Vedi pagine compatibilità 5.10 / 5.16 - See compatibility pages 5.10 / 5.16



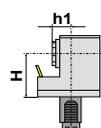
ASSIALE AXIAL

SCAN IT TO SEE



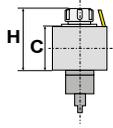
THE TECHNICAL SHEETS

Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.OK.A33	ER-25 Ø1+16	-	86.1	75,5	32	1 : 1	6.000			
99.OK.A34	ER-25 Ø1+16	• 80 bar	86.1	75,5	32	1 : 1	6.000			



RADIALE ARRETRATO RADIAL OFFSET

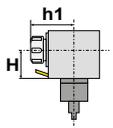
Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.OK.A36	ER-25 Ø1+16	-	70	41	16	1 : 1	8.000			
99.OK.A42	ER-25 Ø1+16	• 80 bar	70	41	16	1 : 1	8.000			



ASSIALE AXIAL



Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.OK.A23	ER-32 Ø2+20	• 70 bar	98.6	80,5	70	1 : 1	6.000	6		
99.OK.A18	ER-32 Ø2+20	-	98.6	80,5	70	1 : 1	6.000	6		



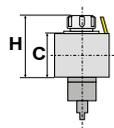
RADIALE RADIAL

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.OK.A19	ER-32 Ø2+20	-	70	84	60	1 : 1	6.000	6		
99.OK.A39	ER-40 Ø3+30	• 80 bar	85	35	40	1 : 1	8.000			

MODELLI DI TORNO COMPATIBILI
 COMPATIBLE LATHE TYPES

Okuma

Vedi pagine compatibilità 5.10 / 5.16 - See compatibility pages 5.10 / 5.16



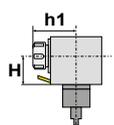
ASSIALE AXIAL

SCAN IT TO SEE



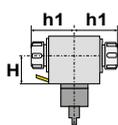
THE TECHNICAL SHEETS

Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.OK.A01	ER-25 Ø1+16	-	71.7	38	40	1 : 1	6.000	8		↓
99.OK.A02	ER-25 Ø1+16	• 70 bar	71.7	38	40	1 : 1	8.000	8		↓
99.OK.A14	ER-32 Ø2+20	-	78	38	70	1 : 1	6.000	6		↓
99.OK.A15	ER-32 Ø2+20	• 70 bar	78	38	40	1 : 1	6.000	6		↓
99.OK.A16	PF-22 Ø22	-	96	38	40	1 : 1	6.000	10		↓
99.OK.A17	PF-27 Ø27	• 70 bar	97	38	40	1 : 1	6.000	10		↓



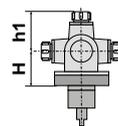
RADIALE RADIAL

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.OK.A03	ER-25 Ø1+16	-	65	94	60	1 : 1	6.000			↓
99.OK.A04	ER-25 Ø1+16	• 70 bar	65	94	60	1 : 1	6.000			↓



RADIALE DOPPIO RADIAL DOUBLE

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.OK.A05	ER-25 Ø1+16	-	65	95,5	40	1 : 1	6.000	10		↓



ORIENTABILE ADJUSTABLE

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.OK.A06	ER-20 Ø1+13	-	60	35	40	1 : 1	6.000	5		↓
99.OK.A07	ER-20 Ø1+13	• 70 bar	60	35	40	1 : 1	6.000	5		↓

ER Portapinza
Collet Holder

PF Portafresa
Shell Mill Holder

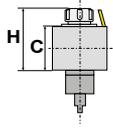
 Ugualo al Mandrino
Same as Spindle

 Opposto al Mandrino
Opposite as Spindle

 Refrigerante Interno
Internal Coolant

 Scarica il PDF
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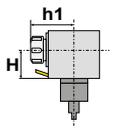
Vedi pagine compatibilità 5.10 / 5.16 - See compatibility pages 5.10 / 5.16



ASSIALE AXIAL



Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.OK.A80	ER-32 Ø2+20	-	79	38,5	60	1 : 1	6.000	6		
99.OK.A81	ER-32 Ø2+20	• 70 bar	79	38,5	60	1 : 1	6.000	6		



RADIALE RADIAL

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.OK.A82	ER-32 Ø2+20	-	70	94	60	1 : 1	6.000	6		
99.OK.A83	ER-32 Ø2+20	• 70 bar	70	94	60	1 : 1	6.000	6		



MODULAR QUICK CHANGE ADAPTORS



COMPATIBILI CON TUTTE LE USCITE ER - COMPATIBLE WITH ALL ER OUTPUTS

SISTEMA MODULARE MODULAR SYSTEM



Facile e veloce sistema modulare universale per cambiare rapidamente diverse tipologie di utensili.

An easy modular system to replace quickly any tool you need.

VANTAGGI ADVANTAGES



Aiutano a ridurre i costi-extra per l'acquisto di nuovi motorizzati o teste angolari.

The costs for further requirements of spindle units can be reduced by using the universal quick change adaptors

ALTE PRESTAZIONI HIGH PERFORMANCE



Ghiera con cuscinetto a sfera e losanga di trascinamento removibile per una maggiore rigidità.

High rigidity thanks to the ball bearing nut and the removable diamond plate

COMPATIBILITÀ COMPATIBILITY



Ampia gamma di uscite disponibili adatte al montaggio su qualsiasi tipologia di motorizzato o testa angolare con uscita ER

Wide range of outputs available. Ball bearing nut and removable diamond plate for highest rigidity.

I cambi rapidi modulari Gerardi mantenendo il presetting precedentemente realizzato consentono un notevole risparmio dei costi ed un ottimizzazione dei tempi ciclo. Sono perfettamente compatibili con tutti i motorizzati e le teste angolari aventi uscita ER DIN6499 e possono essere utilizzati sia con refrigerante interno che esterno.

The Gerardi modular quick change adaptors keep the tool presetting previously made and allow great costs and machining times saving. They are perfectly compatible with all driven tools and angle head with ER DIN6499 output and they can be used with internal or external coolant.

- Nuovi cambi rapidi modulari 2.0 a FORTE SERRAGGIO, 100% Made in Italy.
- Prestazioni garantite e maggior rigidità sui motorizzati Gerardi grazie alla losanga di trascinamento (rimovibile) e alla ghiera con cuscinetto a sfera.
- Adattabili a motorizzati con uscita refrigerante sia interna che esterna.
- Si consiglia di non superare i 10.000 Rpm utilizzando i cambi rapidi

- Universal HIGH TORQUE modular quick change adaptor 100% Made in Italy.
- Guaranteed higher rigidity and performances on Gerardi driven tools thanks to the removable diamond plate and the ball bearing nut
- Suitable for ER toolholder with external and internal coolant supply
- Using the quick change adaptors, we suggest not to exceed 10.000 Rpm



Vedi Pagine 7.14 - 7.15 - See pages 7.14 - 7.15



ER OUTPUTS COMPATIBLE



2 YEARS GUARANTEED

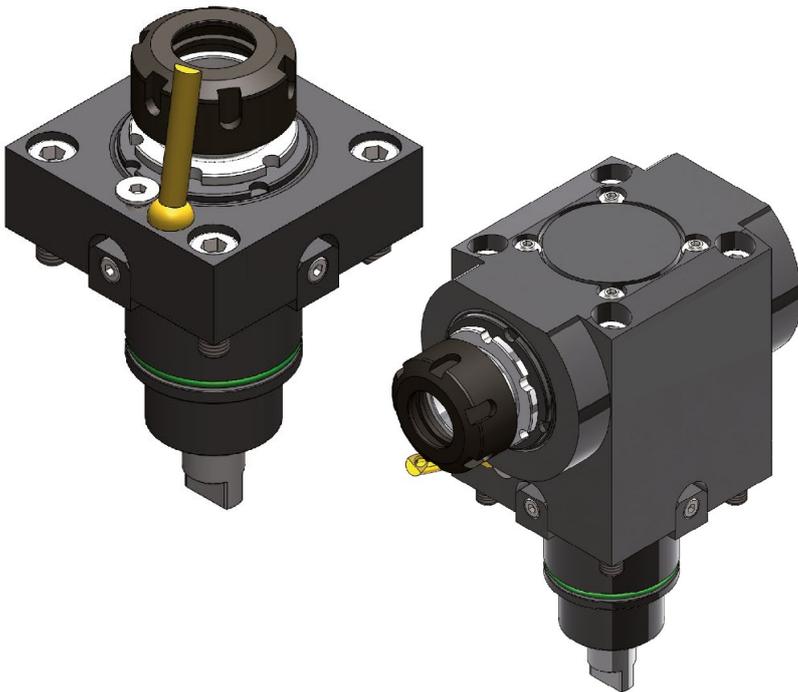


100% MADE IN ITALY

SPINNER



VDI 30 / BMT 45



DOTAZIONE STANDARD STANDARD EQUIPMENT



Chiave bloccaggio albero / ugello refrigerazione / vite bloccaggio ugello / viti bloccaggio motorizzato O-ring

Tool shaft lock wrench / cooling nozzle / nozzle lock screws / Driven tool locking screws / O-ring

CAMBI RAPIDI MODULARI MODULAR QUICK CHANGE



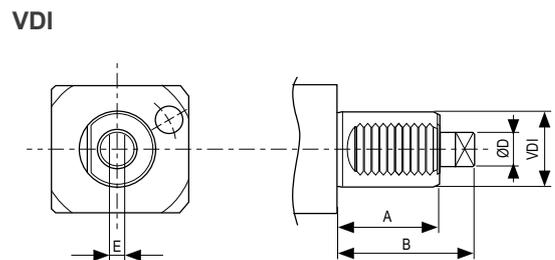
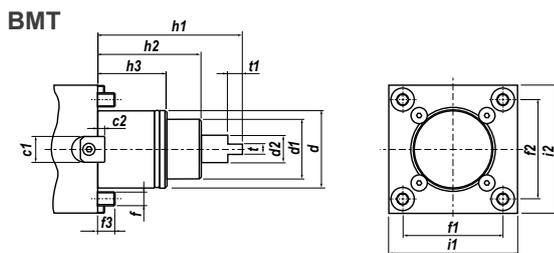
Facile e veloce sistema modulare per il cambio rapido delle diverse tipologie di portautensili con la sede per pinza ER (DIN6499).

Modular toolholder system for the fitting of toolholders in a spindle unit with ER collets (DIN6499) outputs.

Il valore della coppia, espresso in Nm, è il massimo consentito. Per una maggiore durata, si consiglia di mantenerlo sotto tale soglia
The torque value, expressed in Nm, is the maximum allowed. For longer life, it is recommended to keep it below this limit

Type	d	d1	d2	f	f1	f2	f3	h1	h2	h3	i1	i2	t	t1
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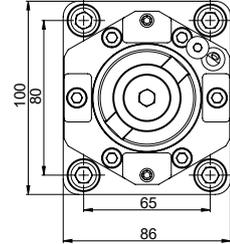
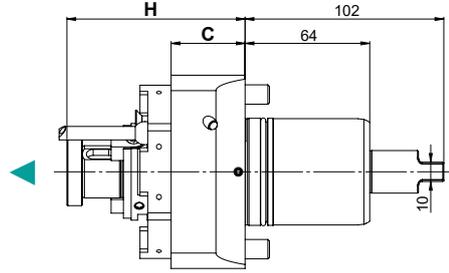
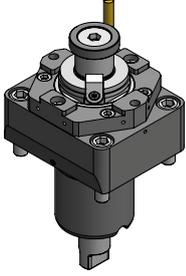
Type	A	B	ØD	E
VDI 25	45	73	23	8



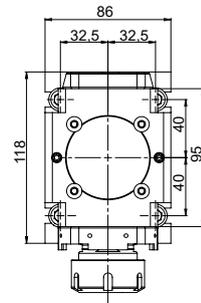
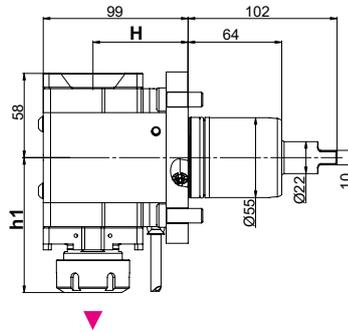
IN FASE D'ORDINE SPECIFICARE - IN CASE OF ORDER PLEASE SPECIFY:
costruttore, modello e numero posizioni in torretta - machine builder, model and turret position numbers

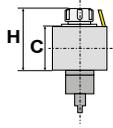


ASSIALE - AXIAL



RADIALE - RADIAL

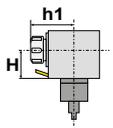




ASSIALE AXIAL



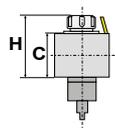
Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.SP.A01	ER-25 Ø1+16	-	58.7	25	35	1 : 1	8.000	6		
99.SP.A02	ER-25 Ø1+16	• 80 bar	58.7	25	35	1 : 1	8.000	6		



RADIALE RADIAL

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.SP.A05	ER-25 Ø1+16	-	85	84,9	35	1 : 1	8.000	6		
99.SP.A06	ER-25 Ø1+16	• 80 bar	85	84,9	35	1 : 1	8.000	6		

Vedi pagine compatibilità 5.10 / 5.16 - See compatibility pages 5.10 / 5.16



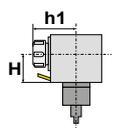
ASSIALE AXIAL

SCAN IT TO SEE



THE TECHNICAL SHEETS

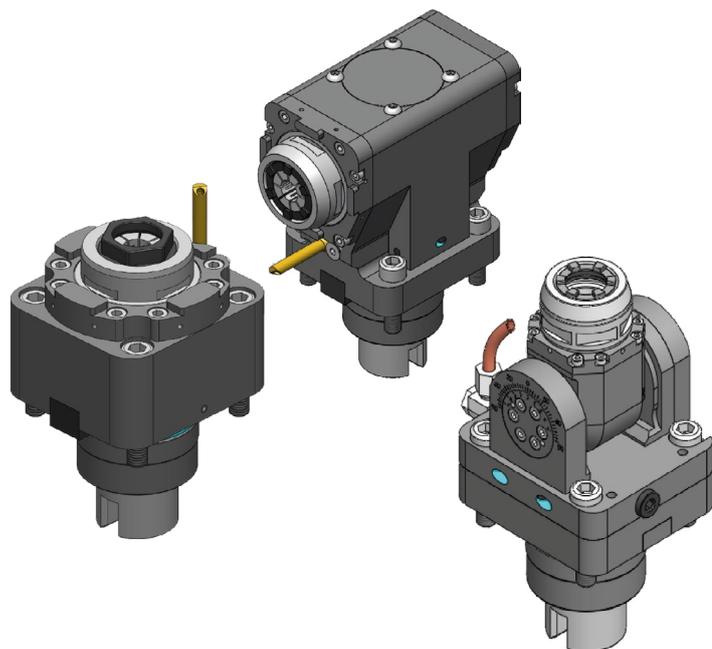
Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.SP.A09	ER-25 Ø1+16	-	73.5	59,5	10	1 : 1	6.000	8		
99.SP.A11	ER-25 Ø1+16	• 80 bar	73.5	59,5	10	1 : 1	6.000	8		



RADIALE RADIAL

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.SP.A10	ER-25 Ø1+16	-	85	63,3	10	1 : 1	6.000	8		
99.SP.A12	ER-25 Ø1+16	• 80 bar	75	63,3	10	1 : 1	6.000	8		

TAIWAN



DOTAZIONE STANDARD STANDARD EQUIPMENT



Chiave bloccaggio albero / ugello refrigerazione / vite bloccaggio ugello / viti bloccaggio motorizzato O-ring

Tool shaft lock wrench / cooling nozzle / nozzle lock screws / Driven tool locking screws / O-ring

CAMBI RAPIDI MODULARI MODULAR QUICK CHANGE

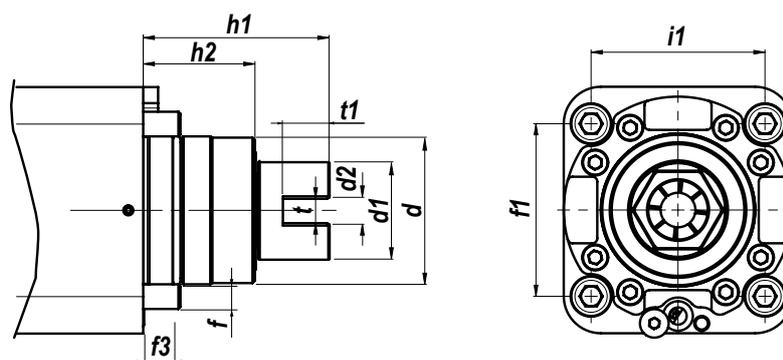


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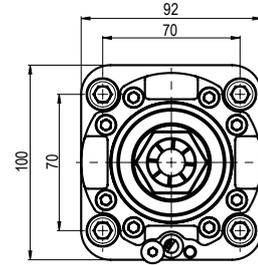
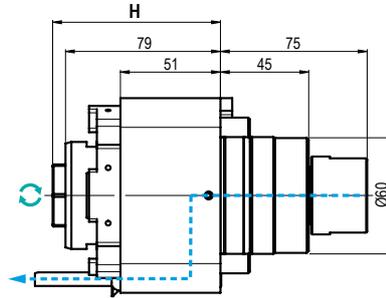
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BMT60	60	40	10	10	70	15-20	75	45	70	10	19



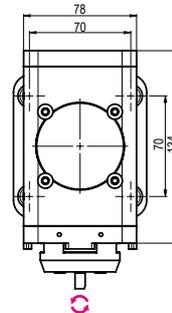
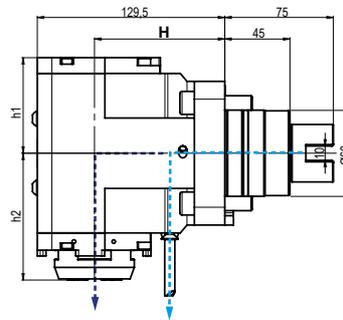
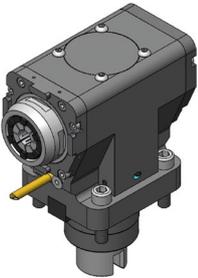
IN FASE D'ORDINE SPECIFICARE - IN CASE OF ORDER PLEASE SPECIFY:
costruttore, modello e numero posizioni in torretta - machine builder, model and turret position numbers



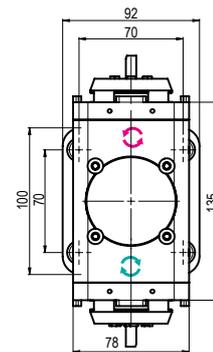
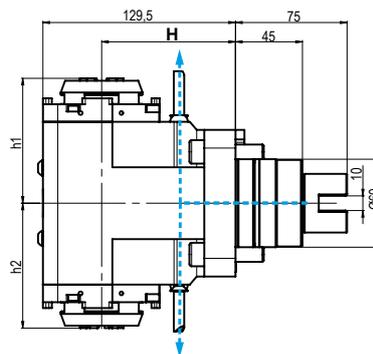
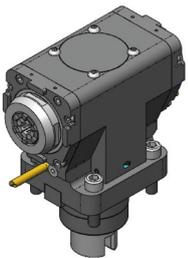
ASSIALE - AXIAL



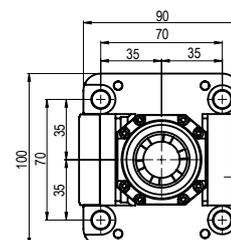
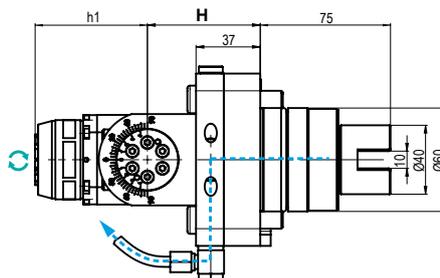
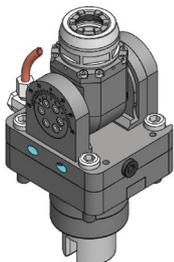
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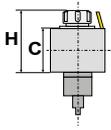


RADIALE DOPPIO - DOUBLE RADIAL



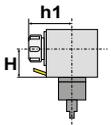
ORIENTABILE - ADJUSTABLE





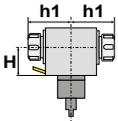
ASSIALE AXIAL

Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.TK.A03	ER-32 Ø2+20	-	93	70	60	1 : 1	6.000			



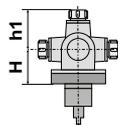
RADIALE RADIAL

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.TK.A02	ER-32 Ø2+20	-	90	88	50	1 : 1	6.000			
99.TK.A05	ER-32 Ø2+20	• 80 bar	90	88	50	1 : 1	6.000			



RADIALE DOPPIO RADIAL DOUBLE

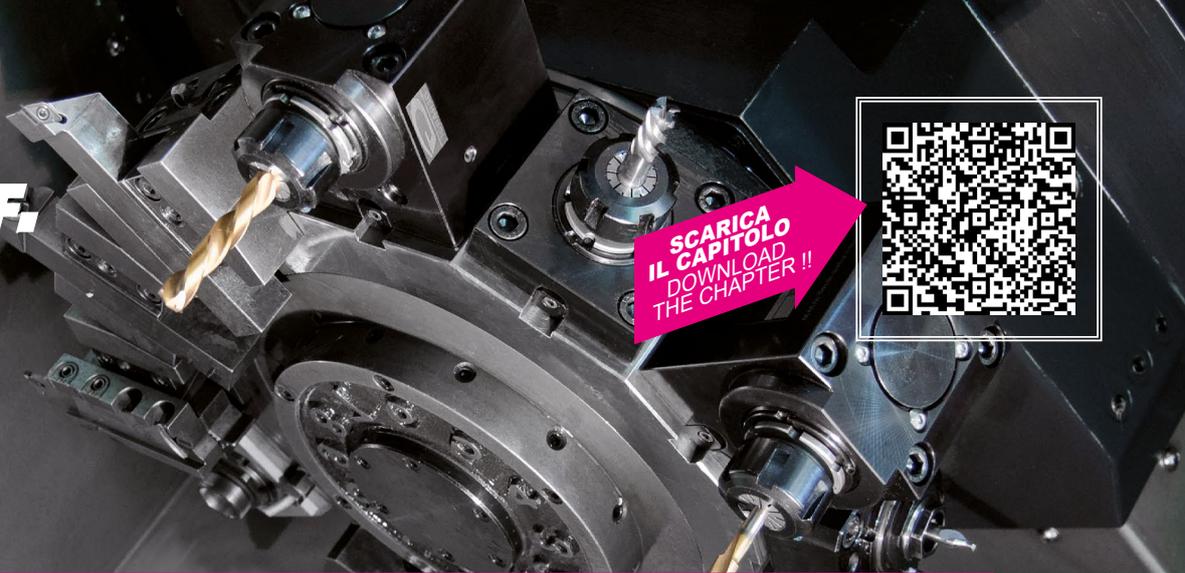
Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.TK.A08	ER-25 Ø1+16	-	90	85	50	1 : 1	8.000			
99.TK.A04	ER-32 Ø2+20	-	90	88	50	1 : 1	8.000			
99.TK.A09	ER-25 Ø1+16	-	90	73	40	1 : 1	6.000			



ORIENTABILE ADJUSTABLE

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.TK.A10	ER-16 Ø1+10	• 80 bar	65	114,5	20	1 : 1	6.000			
99.TK.A01	ER-25 Ø1+16	-	65	130	25	1 : 1	6.000			

HIGH PERF.



**SCARICA
IL CAPITOLO
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THE CHAPTER !!**



NUOVI MOTORIZZATI POTENZIATI DISPONIBILI !!
NEW UPGRADED DRIVEN TOOLS AVAILABLE !!

HIGH PERFORMANCE

Elevata coppia e 12.000 Rpm per lavorazioni a secco!

High torque and 12.000 Rpm for dry running!



MASSIME PRESTAZIONI E PROGETTAZIONE OTTIMIZZATA

Maximum Performance and Optimised Design

- Progettazione ottimizzata nella struttura e nei cuscinetti
- Migliori performance in fresatura e foratura
- Albero principale esente da usura
- Optimized design in the structure and bearings
- Better performance in milling and drilling
- Wear-free main shaft



EFFICIENZA TERMICA E MANUTENZIONE SEMPLIFICATA

Thermal efficiency and simplified maintenance

- Ridotto incremento delle temperature
- Tenuta meccanica senza guarnizione
- Montaggio smontaggio semplificati
- Intervalli di manutenzione ridotti
- Reduced increase in temperatures
- Mechanical seal without gasket
- Simplified assembly and disassembly
- Reduced maintenance intervals



POSSIBILITÀ DI LAVORARE A SECCO

Dry running available

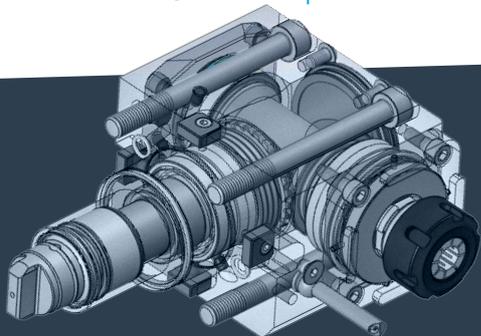
- Possibilità di lavorare a secco ad alte velocità (ma con valori ridotti del 70%)
- Continuo miglioramento della tecnologia di tenuta
- Possibility of dry running at high speeds (but with values reduced by 70%)
- Continuous improvement of sealing technology



CHIAVE DI BLOCCAGGIO CON SISTEMA "SENZA MANI"

'Hands-free' locking wrench

- La chiave di bloccaggio dell'albero portapinzza rimane fissa liberando una mano per un migliore serraggio dell'utensile
- Ridotto il tempo operativo di attrezzaggio
- The collet holder shaft locking key remains fixed, freeing one hand for better tightening of the tool
- Reduced operating time when tooling up the machine.



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PRECISION TSUGAMI



BMT 65



DOTAZIONE STANDARD STANDARD EQUIPMENT



Chiave bloccaggio albero / ugello refrigerazione / vite bloccaggio ugello / viti bloccaggio motorizzato O-ring

Tool shaft lock wrench / cooling nozzle / nozzle lock screws / Driven tool locking screws / O-ring

CAMBI RAPIDI MODULARI MODULAR QUICK CHANGE

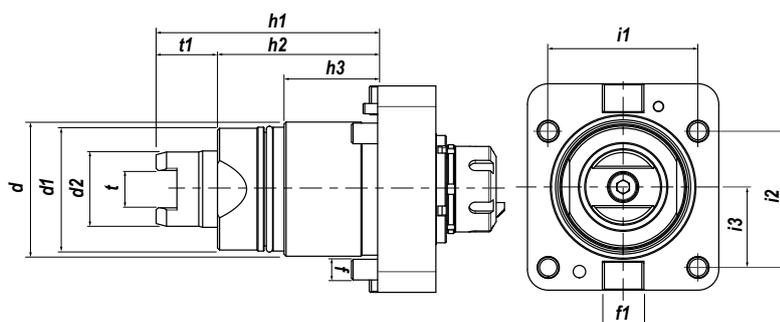


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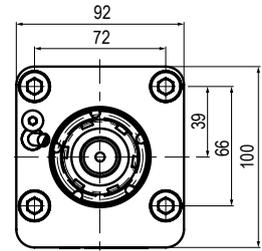
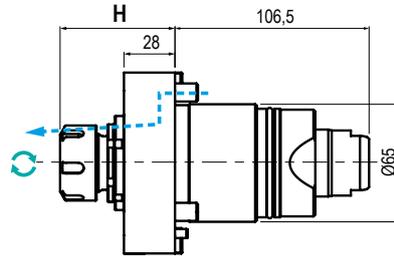
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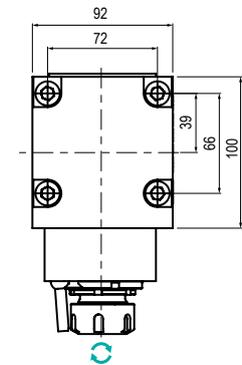
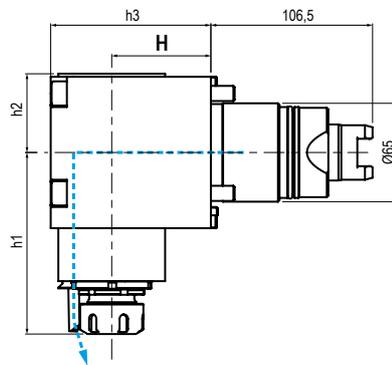
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costruttore, modello e numero posizioni in torretta - machine builder, model and turret position numbers



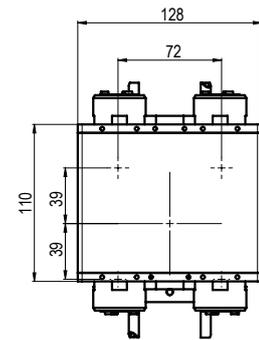
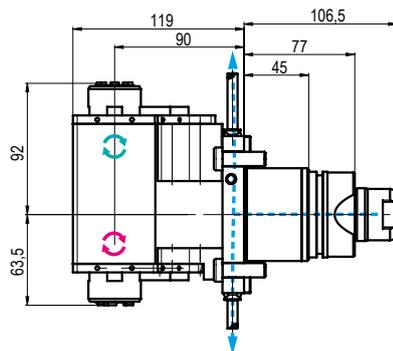
ASSIALE - AXIAL



RADIALE - RADIAL

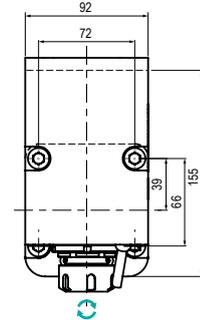
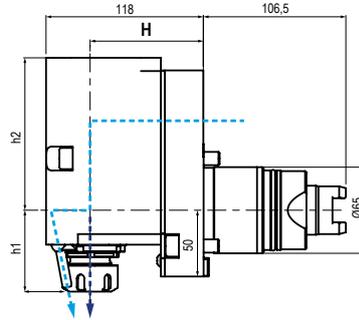


RADIALE DOPPIO - DOUBLE RADIAL

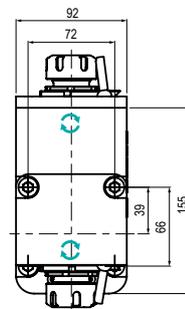
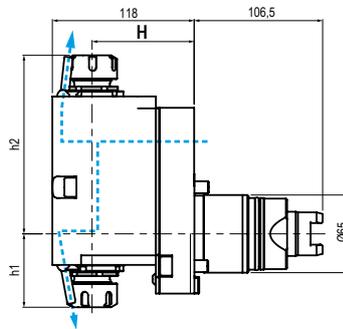




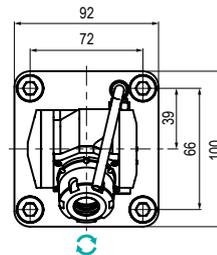
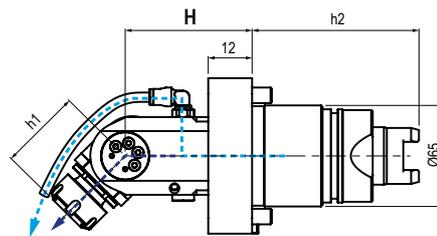
RADIALE DISASSATO - RADIAL REAR OFFSET

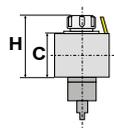


RADIALE DISASSATO DOPPIO - RADIAL BOTH SIDE REAR OFFSET



ORIENTABILE - ADJUSTABLE





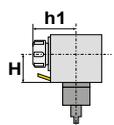
ASSIALE AXIAL

SCAN IT TO SEE



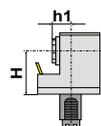
THE TECHNICAL SHEETS

Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.TS.A01	ER-25 Ø1+16	-	62.9	28	40	1 : 1	8.000			
99.TS.A03	ER-32 Ø2+20	-	67	28	40	1 : 1	8.000			



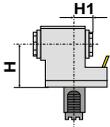
RADIALE RADIAL

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.TS.A08	ER-25 Ø1+16	-	65	119,9	40	1 : 1	8.000			
99.TS.A10	ER-32 Ø2+20	-	65	122	40	1 : 1	8.000			
99.TS.A14	ER-32 Ø2+20	-	65	120	40	1 : 1	8.000			
99.TS.A09	ER-25 Ø1+16	100 bar	69	120	40	1 : 1	8.000			
99.TS.A11	ER-32 Ø2+20	100 bar	65	122,1	40	1 : 1	8.000			
99.TS.A15	ER-32 Ø2+20	100 bar	85	121	40	1 : 1	8.000			
99.TS.A16	ER-32 Ø2+20	-	85		40	1 : 1	8.000			



RADIALE ARRETRATO RADIAL OFFSET

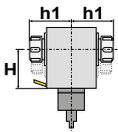
Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.TS.A17	ER-25 Ø1+16	-	85		40	1 : 1	8.000			
99.TS.A18	ER-25 Ø1+16	100 bar	85		40	1 : 1	8.000			



RADIALE DOPPIO ARRETRATO

RADIAL DOUBLE OFFSET

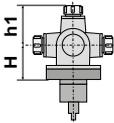
Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.TS.A21	ER-25 Ø1÷16	-	85	61,4	40	1 : 1	8.000			
99.TS.A22	ER-32 Ø2÷20	-	85	38,4	40	1 : 1	8.000			



RADIALE DOPPIO 2 USCITE SU ASSE Y

DOUBLE RADIAL 2 OUTPUTS ON Y AXIS

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.TS.A23	ER-20 Ø1÷13	-	90	63,5	40	1 : 1	6.000			



ORIENTABILE

ADJUSTABLE

Code	Output	Int Cool.	H	h1	Nm	Ratio	Rpm	Kw	Sense of Rotation	Tech. Draw
99.TS.A24	ER-20 Ø1÷13	-	65	59	15	1 : 1	8.000			
99.TS.A25	ER-20 Ø1÷13	• 70 bar	65	59	15	1 : 1	8.000			
99.TS.A26	ER-16 Ø1÷10	-	65	53	15	1 : 1	8.000			
99.TS.A27	ER-16 Ø1÷10	• 80 bar	65	53	15	1 : 1	8.000			



MODULAR QUICK CHANGE ADAPTORS



COMPATIBILI CON TUTTE LE USCITE ER - COMPATIBLE WITH ALL ER OUTPUTS

SISTEMA MODULARE MODULAR SYSTEM



Facile e veloce sistema modulare universale per cambiare rapidamente diverse tipologie di utensili.

An easy modular system to replace quickly any tool you need.

VANTAGGI ADVANTAGES



Aiutano a ridurre i costi-extra per l'acquisto di nuovi motorizzati o teste angolari.

The costs for further requirements of spindle units can be reduced by using the universal quick change adaptors

ALTE PRESTAZIONI HIGH PERFORMANCE



Ghiera con cuscinetto a sfera e losanga di trascinamento removibile per una maggiore rigidità.

High rigidity thanks to the ball bearing nut and the removable diamond plate

COMPATIBILITÀ COMPATIBILITY



Ampia gamma di uscite disponibili adatte al montaggio su qualsiasi tipologia di motorizzato o testa angolare con uscita ER

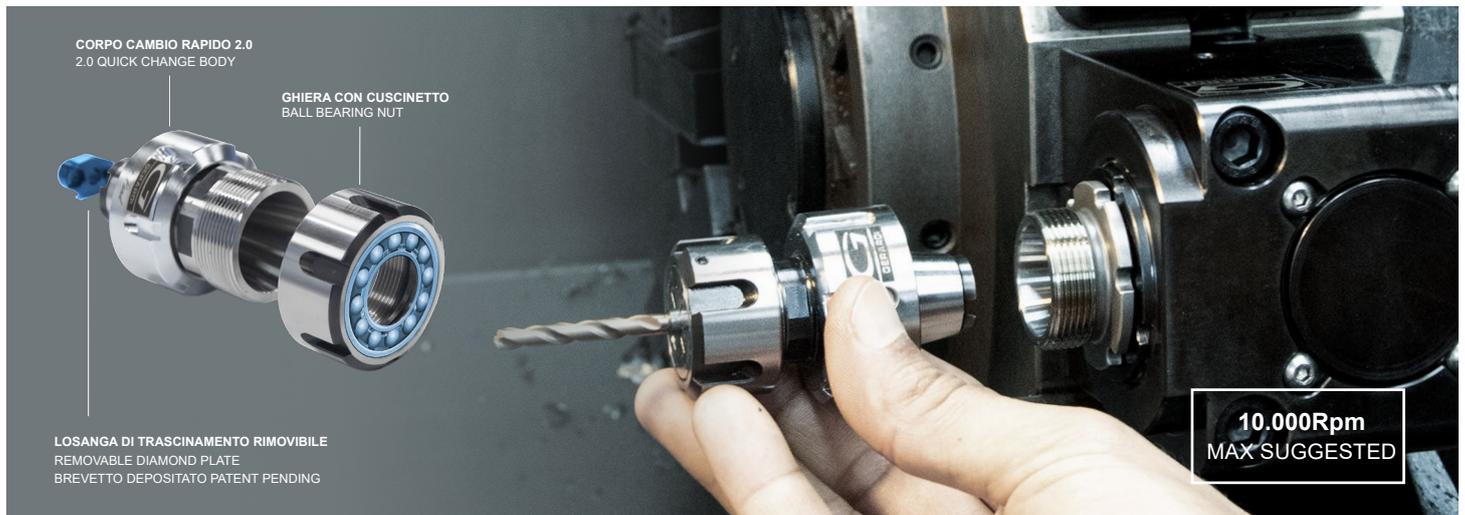
Wide range of outputs available. Ball bearing nut and removable diamond plate for highest rigidity.

I cambi rapidi modulari Gerardi mantenendo il presetting precedentemente realizzato consentono un notevole risparmio dei costi ed un ottimizzazione dei tempi ciclo. Sono perfettamente compatibili con tutti i motorizzati e le teste angolari aventi uscita ER DIN6499 e possono essere utilizzati sia con refrigerante interno che esterno.

- Nuovi cambi rapidi modulari 2.0 a FORTE SERRAGGIO, 100% Made in Italy.
- Prestazioni garantite e maggior rigidità sui motorizzati Gerardi grazie alla losanga di trascinamento (rimovibile) e alla ghiera con cuscinetto a sfera.
- Adattabili a motorizzati con uscita refrigerante sia interna che esterna.
- Si consiglia di non superare i 10.000 Rpm utilizzando i cambi rapidi

The Gerardi modular quick change adaptors keep the tool presetting previously made and allow great costs and machining times saving. They are perfectly compatible with all driven tools and angle head with ER DIN6499 output and they can be used with internal or external coolant.

- Universal HIGH TORQUE modular quick change adaptor 100% Made in Italy.
- Guaranteed higher rigidity and performances on Gerardi driven tools thanks to the removable diamond plate and the ball bearing nut
- Suitable for ER toolholder with external and internal coolant supply
- Using the quick change adaptors, we suggest not to exceed 10.000 Rpm



Vedi Pagine 7.14 - 7.15 - See pages 7.14 - 7.15



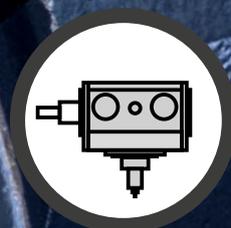
ER OUTPUTS COMPATIBLE



2 YEARS GUARANTEED



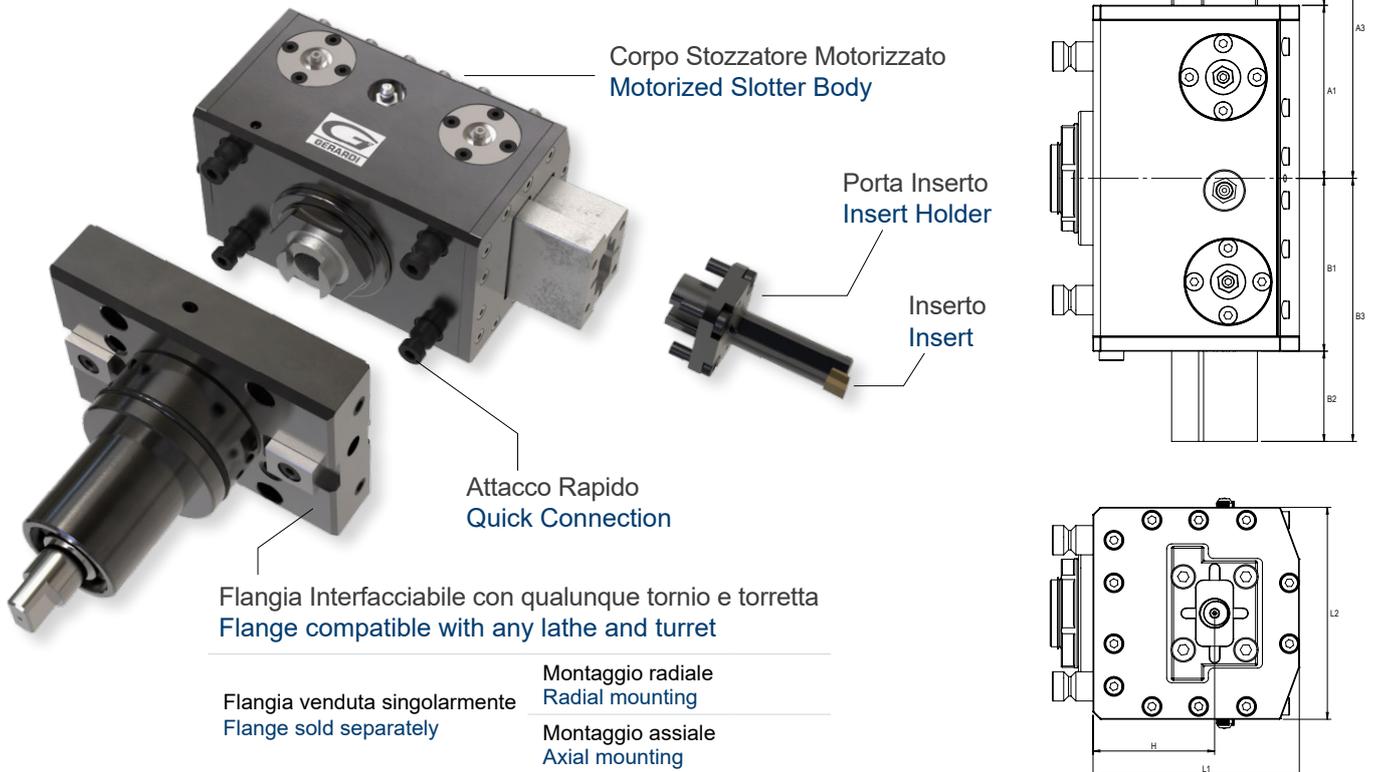
100% MADE IN ITALY



STOZZATORE MOTORIZZATO MOTORIZED SLOTTER

*Potenzia ed aggiorna il tuo tornio
Upgrade your CNC lathe*

STOZZATORE MOTORIZZATO RADIALE RADIAL MOTORIZED SLOTTER



STOZZATORE RADIALE - RADIAL MOTORIZED SLOTTER

Cod.	Corsa Stroke	A1	A2	A3	B1	B2	B3	L1	L2	H
99.ZZ.25	25	50	27	77	46	27	73	52	63	30
99.ZZ.35	35	71	37	108	71	37	108	84	87	49,5
99.ZZ.50	50	88,5	52	140,5	73,5	52	125,5	84	99	49,5
99.ZZ.65	65	101	67	168	76	67	76	87,5	111	51

* I prezzi di listino si riferiscono alla versione **radiale**. La configurazione **assiale** richiede l'integrazione di una base specifica, pertanto necessita di una quotazione dedicata: contattare per maggiori informazioni.

* List prices refer to the **radial** version. The **axial** configuration requires the integration of a specific base, so it requires a dedicated price quote: please contact us for more information.

PARAMETRI DI TAGLIO - CUTTING PARAMETERS

SPESSORE MASSIMO REALIZZABILE SUI VARI MATERIALI E PARAMETRI DI TAGLIO MAXIMUM THICKNESS ACHIEVABLE ON VARIOUS MATERIALS AND CUTTING PARAMETERS

	Corsa 35 (mm) Stroke 35 (mm)	Corsa 50 (mm) Stroke 50 (mm)	Corsa 65 (mm) Stroke 65 (mm)	Velocità di taglio Cutting speed	Incremento (mm) Increase (mm)
ALLUMINIO	16	16	16	38 m/min.	0,06 / 0,15
ACCIAIO TENERO	14	14	14	33 m/min.	0,04 / 0,07
GHISA	14	14	12	28 m/min.	0,04 / 0,07
ACCIAIO COMUNE	14	14	12	30 m/min.	0,03 / 0,05
ACCIAIO BONIFICATO	12	12	10	25 m/min.	0,02 / 0,04
ACCIAIO INOX	12	12	10	25 m/min.	0,02 / 0,04
PLASTICA	18	18	18	40 m/min.	0,07 / 0,15
BRONZO-OTTONE	14	12	12	30 m/min.	0,03 / 0,06

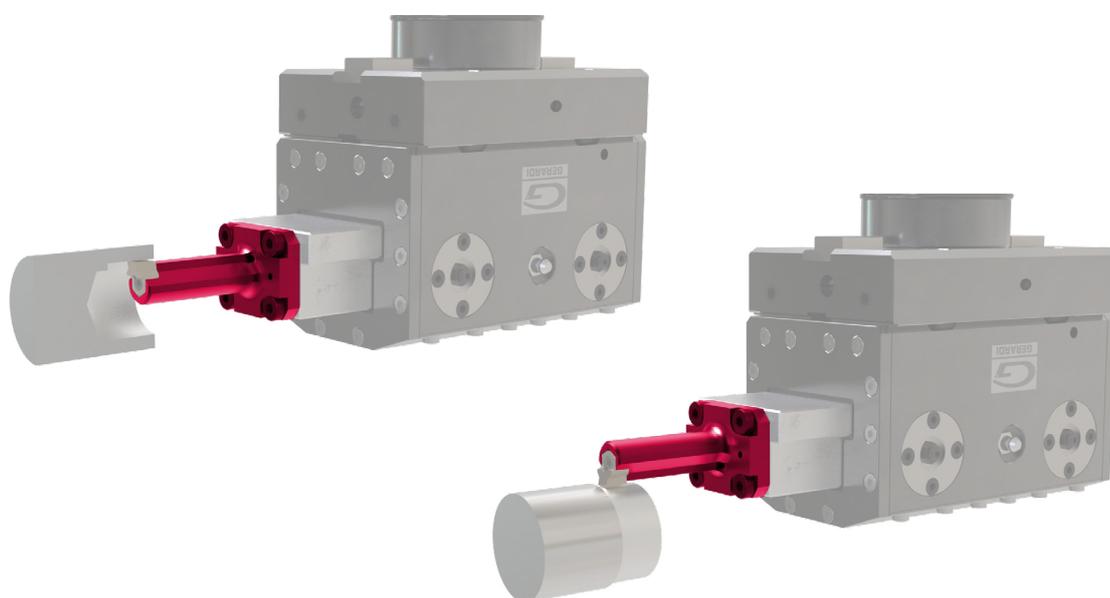
PORTA INSERTO INSERT HOLDER



GR-P

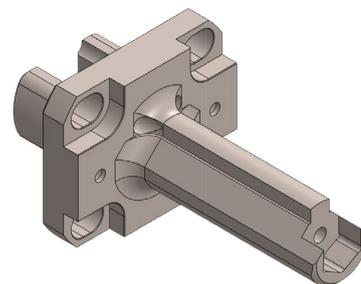
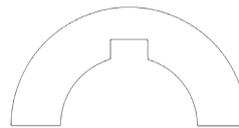
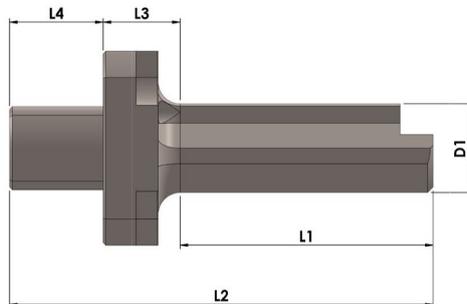
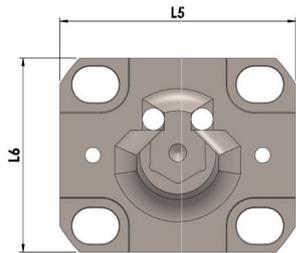
SERIE GR-PM GR-PP / GR-PE / GR-PQ / GR-PS / GR-PX

GR-PM GR-PP	Porta inserti metrici e in pollici. Serie per realizzazione sedi chiavetta interne Metric and inch insert holder. Series for manufacturing internal key seats	
GR-PE	Porta inserti esagonali. Serie per realizzazione profili esagoni -120° Hexagonal insert holder. Series for making hexagonal profiles -120°	
GR-PQ	Porta inserti quadri. Serie per realizzazione profili quadri -90° Square insert holder. Series for creating square profiles -90°	
GR-PS	Porta inserti speciali. Serie per realizzazione profili scanalati interni/esterni Special insert holder. Series for creating internal/external grooved profiles	
GR-PX	Adattatore serie per realizzare micro lavorazioni speciali Adapter for series for creating special micro-machining operations	



GR-PM

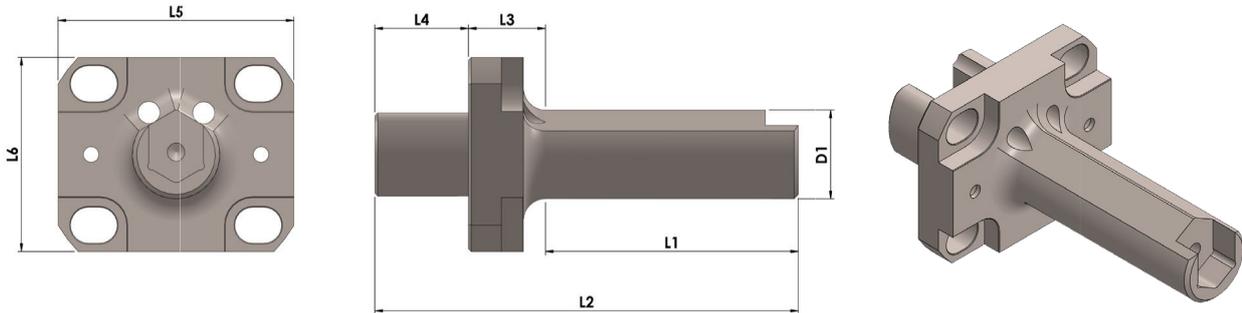
Serie per realizzazione profili rettangolari interni (sedi)
Series for creating internal rectangular profiles (seats)



Per corsa For stroke	Cod.	Grandezza sede Slot size	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	D1 (mm)	Foro minimo Min hole (mm)	Peso Weight (g)
25	99.ZZ.PM2-02	02	26	43	8	9	27,5	19	6,5	7	26
	99.ZZ.PM2-03	03	26	43	8	9	27,5	19	8	8,7	28
	99.ZZ.PM2-04	04	26	43	8	9	27,5	19	10	11	34
	99.ZZ.PM2-05	05	26	43	8	9	27,5	19	12	13	39
	99.ZZ.PM2-06	06	26	43	8	9	27,5	19	15	17	48
	35	99.ZZ.PM3-02	02	25	56	14	17	43	35	6,5	7
99.ZZ.PM3-03		03	30	61	14	17	43	35	7,8	8,7	160
99.ZZ.PM3-04		04	40	71	14	17	43	35	10	11	170
99.ZZ.PM3-05		05	46	79	14	20	43	35	12	13	180
99.ZZ.PM3-06		06	46	79	14	20	43	35	16	17	210
99.ZZ.PM3-08		08	46	79	14	20	43	35	20	21,5	225
99.ZZ.PM3-1012		10/12	46	79	14	20	43	35	22	24	235
99.ZZ.PM3-1416		14/16	46	79	14	20	43	35	25	27	245
50	99.ZZ.PM5-02	02	25	56	14	17	43	35	6	7	150
	99.ZZ.PM5-03	03	30	61	14	17	43	35	8	8,7	160
	99.ZZ.PM5-04	04	40	71	14	17	43	35	10	11	170
	99.ZZ.PM5-05	05	46	79	14	20	43	35	12	13	180
	99.ZZ.PM5-06	06	56	87	14	17	43	35	16	17	210
	99.ZZ.PM5-08	08	56	87	14	17	43	35	20	21,5	225
	99.ZZ.PM5-1012	10/12	56	87	14	17	43	35	22	24	235
	99.ZZ.PM5-1416	14/16	56	87	14	17	43	35	25	27	245
65	99.ZZ.PM6-02	02	25	56	14	17	43	35	6	7	150
	99.ZZ.PM6-03	03	30	61	14	17	43	35	8	8,7	160
	99.ZZ.PM6-04	04	40	71	14	17	43	35	10	11	170
	99.ZZ.PM6-05	05	46	79	14	20	43	35	12	13	180
	99.ZZ.PM6-06	06	56	87	14	17	43	35	16	17	210
	99.ZZ.PM6-08	08	56	87	14	17	43	35	20	21,5	225
	99.ZZ.PM6-1012	10/12	56	87	14	17	43	35	22	24	235
	99.ZZ.PM6-1416	14/16	56	87	14	17	43	35	25	27	245

GR-PE

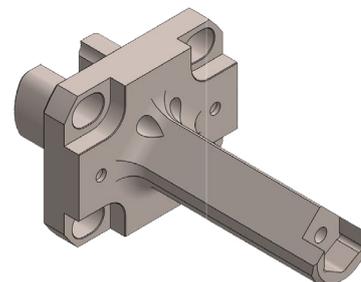
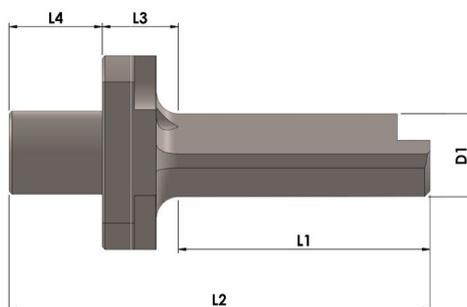
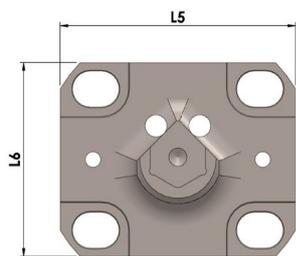
Serie per realizzazione profili esagoni -120°
Series for making hexagonal profiles -120°



Per corsa For stroke	Cod.	Grandezza sede Slot size	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	D1 (mm)	Foro minimo Min hole (mm)	Peso Weight (g)
25	99.ZZ.PE2-0911	9/11	26	43	8	9	27,5	19	8	8,7	28
	99.ZZ.PE2-1117	11/17	26	43	8	9	27,5	19	10	11	34
	99.ZZ.PE2-1728	17/28	26	43	8	9	27,5	9	15	16,5	39
35	99.ZZ.PE3-0911	9/11	30	61	14	17	43	35	8	8,7	150
	99.ZZ.PE3-1117	11/17	35	66	14	17	43	35	10	11	160
	99.ZZ.PE3-1728	17/28	46	77	14	17	43	35	15	16	170
	99.ZZ.PE3-2837	28/37	46	77	14	17	43	35	25	27	180
	99.ZZ.PE3-3745	37/45	46	77	14	17	43	35	28	30	270
50	99.ZZ.PE5-0911	9/11	30	61	14	17	43	35	8	8,7	150
	99.ZZ.PE5-1117	11/17	35	66	14	17	43	35	10	11	160
	99.ZZ.PE5-1728	17/28	60	91	14	17	43	35	15	16	210
	99.ZZ.PE5-2837	28/37	60	91	14	17	43	35	25	27	225
	99.ZZ.PE5-3745	37/45	60	91	14	17	43	35	28	30	245
65	99.ZZ.PE6-0911	9/11	30	61	14	17	43	35	8	8,7	150
	99.ZZ.PE6-1117	11/17	35	66	14	17	43	35	10	11	160
	99.ZZ.PE6-1728	17/28	60	91	14	17	43	35	15	16	210
	99.ZZ.PE6-2837	28/37	75	106	14	17	43	35	25	27	225
	99.ZZ.PE6-3745	37/45	75	106	14	17	43	35	28	30	275

GR-PQ

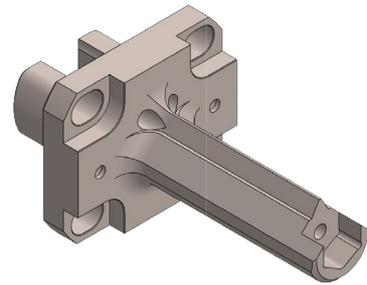
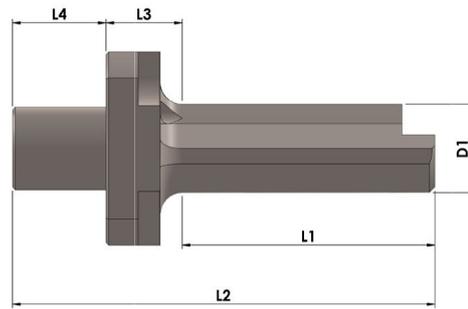
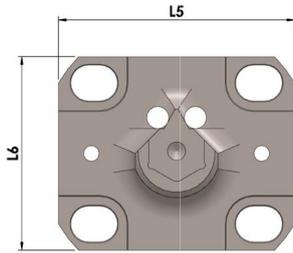
Serie per realizzazione profili quadri -90°
Series for creating square profiles -90°



Per corsa For stroke	Cod.	Grandezza sede Slot size	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	D1 (mm)	Foro minimo Min hole (mm)	Peso Weight (g)
25	99.ZZ.PQ2-0810	8/10	26	43	8	9	27,5	19	7,5	8	28
	99.ZZ.PQ2-1013	10/13	26	43	8	9	27,5	19	8,6	10	34
	99.ZZ.PQ2-1316	13/16	26	43	8	9	27,5	19	12	13	39
35	99.ZZ.PQ3-0810	8/10	30	61	14	20	43	35	7,25	8	150
	99.ZZ.PQ3-1013	10/13	40	66	14	20	43	35	8,6	10	160
	99.ZZ.PQ3-1316	13/16	46	71	14	20	43	35	12	13	170
	99.ZZ.PQ3-1619	16/19	46	71	14	20	43	35	15	16	180
	99.ZZ.PQ3-1927	19/27	46	71	14	20	43	35	18,5	19	210
	99.ZZ.PQ3-2737	27/37	46	71	14	20	43	35	25	27	225
50	99.ZZ.PQ5-0810	8/10	30	61	14	20	43	35	7,25	8	150
	99.ZZ.PQ5-1013	10/13	40	66	14	20	43	35	8,6	10	160
	99.ZZ.PQ5-1316	13/16	50	81	14	20	43	35	12	13	170
	99.ZZ.PQ5-1619	16/19	52	83	14	20	43	35	15	16	180
	99.ZZ.PQ5-1927	19/27	52	83	14	20	43	35	18,5	19	225
	99.ZZ.PQ5-2737	27/37	60	91	14	20	43	35	25	27	285
65	99.ZZ.PQ6-0810	8/10	30	61	14	20	43	35	7,25	8	150
	99.ZZ.PQ6-1013	10/13	40	66	14	20	43	35	8,6	10	160
	99.ZZ.PQ6-1316	13/16	50	81	14	20	43	35	12	13	170
	99.ZZ.PQ6-1619	16/19	52	83	14	20	43	35	15	16	210
	99.ZZ.PQ6-1927	19/27	75	106	14	20	43	35	18,5	19	290
	99.ZZ.PQ6-2737	27/37	75	106	14	20	43	35	25	27	315

GR-PS

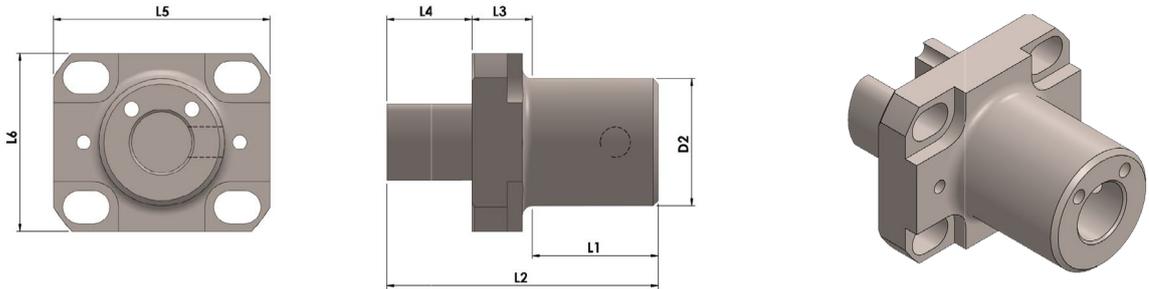
Serie per realizzazione profili scanalati interni/esterni
Series for creating internal/external grooved profiles



Per corsa For stroke	Cod.	Grandezza sede Slot size	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	D1 (mm)	Foro minimo Min hole (mm)	Peso Weight (g)
25	99.ZZ.PS2-02	02	26	43	8	9	27,5	19	6,5	7	26
	99.ZZ.PS2-03	03	26	43	8	9	27,5	19	7,8	8,7	28
	99.ZZ.PS2-04	04	26	43	8	9	27,5	19	10	11	34
	99.ZZ.PS2-05	05	26	43	8	9	27,5	19	12	13	39
	99.ZZ.PS2-06	06	26	43	8	9	27,5	19	16	17,5	48
	35	99.ZZ.PS3-02	02	25	56	14	17	43	35	6,5	7
99.ZZ.PS3-03		03	30	61	14	17	43	35	8	8,7	160
99.ZZ.PS3-04		04	40	71	14	17	43	35	10	11	170
99.ZZ.PS3-05		05	46	71	14	17	43	35	12	13	180
99.ZZ.PS3-06		06	46	77	14	17	43	35	16	17	210
99.ZZ.PS3-08		08	46	77	14	17	43	35	20	21,5	225
99.ZZ.PS3-10		10	46	77	14	17	43	35	22	24	235
99.ZZ.PS3-12		12	46	77	14	17	43	35	25	27	245
99.ZZ.PS3-1416		14/16	46	77	14	17	43	35	28	30	245
50		99.ZZ.PS5-02	02	25	56	14	17	43	35	6,5	7
	99.ZZ.PS5-03	03	30	61	14	17	43	35	8	8,7	160
	99.ZZ.PS5-04	04	40	71	14	17	43	35	10	11	170
	99.ZZ.PS5-05	05	46	71	14	17	43	35	12	13	180
	99.ZZ.PS5-06	06	56	87	14	17	43	35	16	17	210
	99.ZZ.PS5-08	08	60	91	14	17	43	35	20	21,5	245
	99.ZZ.PS5-10	10	60	91	14	17	43	35	22	24	265
	99.ZZ.PS5-12	12	60	91	14	17	43	35	22	24	285
	99.ZZ.PS5-1416	14/16	60	91	14	17	43	35	28	30	310
	65	99.ZZ.PS6-02	02	25	56	14	17	43	35	6,5	7
99.ZZ.PS6-03		03	30	61	14	17	43	35	8	8,7	160
99.ZZ.PS6-04		04	40	71	14	17	43	35	10	11	170
99.ZZ.PS6-05		05	46	71	14	17	43	35	12	13	180
99.ZZ.PS6-06		06	56	91	14	17	43	35	16	17	210
99.ZZ.PS6-08		08	70	101	14	17	43	35	20	21,5	245
99.ZZ.PS6-10		10	75	106	14	17	43	35	22	24	265
99.ZZ.PS6-12		12	75	106	14	17	43	35	22	24	310
99.ZZ.PS6-1416		14/16	75	106	14	17	43	35	28	30	310

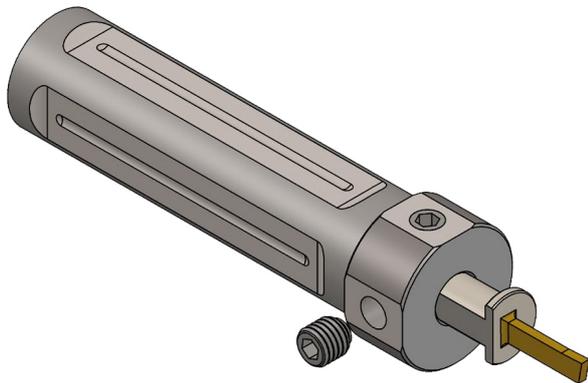
GR-PX

Adattatore serie per realizzare micro lavorazioni speciali
 Adapter for series for creating special micro-machining operations



Per micro lavorazioni speciali richiedere informazioni sulla serie GR-PX e i suoi inserti. Gli inserti di questa serie possono essere utilizzati con l'adattatore UT-1/8. A loro volta, è possibile utilizzare gli UT-1/8 (come un normale utensile) per l'utilizzo su torni senza asse Y. In alternativa, gli inserti si possono bloccare nel portautensile della macchina con una semplice pinza di fissaggio (ad es. una pinza ER). In questo caso è preferibile che la macchina utensile disponga di asse Y.

For special micro machining operations, request information on the GR-PX series and its inserts. The inserts in this series can be used with the UT-1/8 adapter. In turn, the UT-1/8 can be used (as a normal tool) on lathes without a Y-axis. Alternatively, the inserts can be clamped into the machine's tool holder with a simple clamping collet (e.g. an ER collet). In this case, it is preferable for the machine tool to have a Y-axis.



Sede chiavetta
Key holder



Profilo quadro
Square profile



Profilo esagonale
Hexagonal profile



Profilo doppio quadro
Double square profile

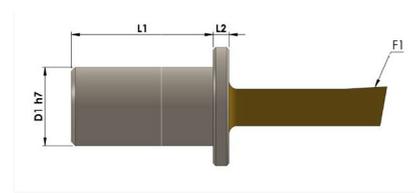
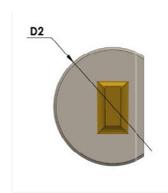
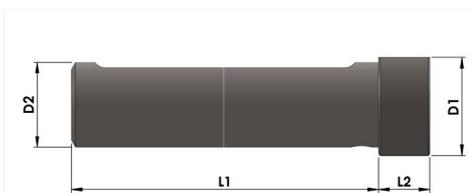


Profilo circolare
Circular profile



Profilo evolvente circolare
Circular involute profile

ADATTATORE UT-1/8 UT-1/8 ADAPTER



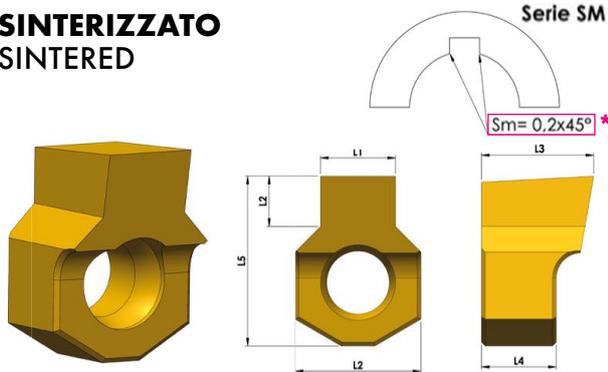
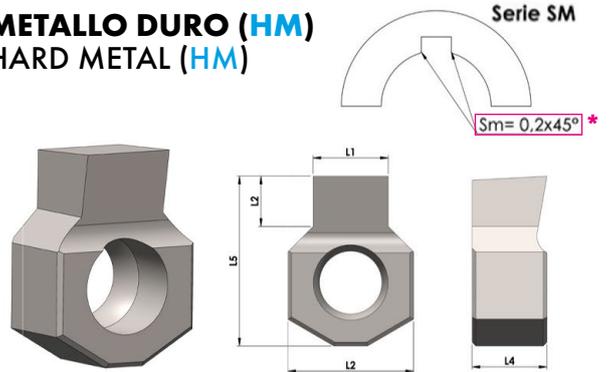
INSERTO INTEGRALE INTEGRAL INSERT

INSERTI INSERTS



IM (mm)	INSERTI PER SEDE RETTANGOLARE	Disponibili sia in lega sinterizzata realizzata dalle micro-polveri, sia in metallo duro (HM). La loro geometria consente un alto numero di riaffilature. Gli inserti la cui sigla termina con il suffisso "SM" eseguono uno smusso di 0.2x45° nel punto di intersezione tra il foro e le pareti del profilo realizzato lasciando così il foro privo di bave	
IP (inch)	INSERTS FOR RECTANGULAR SHAPE	Available in both sintered alloy made from micro-powders and hard metal (HM). Their geometry allows for a high number of re-sharpenings. Inserts with the suffix "SM" perform a 0.2x45° chamfer at the intersection between the hole and the walls of the finished profile, leaving the hole free of burrs	
IE	INSERTI PER SEDE ESAGONALE INSERTS FOR HEXAGONAL SHAPE	Ogni misura di inserto di questa linea è in grado di realizzare diverse dimensioni di esagoni Each insert size in this line can produce different hexagon sizes	
IQ	INSERTI PER SEDE QUADRATA INSERTS FOR SQUARE SHAPE	Ogni misura di inserto di questa linea è in grado di realizzare diverse dimensioni di quadri Each insert size in this line can be used to create different frame sizes	
IS	INSERTI PER REALIZZARE PROFILI SCANALATI INSERTS FOR CREATING GROOVED PROFILES	Gli inserti da utilizzare sulla linea di porta inserti per profili scanalati sono tutti considerati speciali: vengono prodotti appositamente in riferimento alla normativa o al dimensionamento richiesto. The inserts to be used on the grooved profile insert line are all considered special: they are manufactured specifically in reference to the regulations or the required dimensions.	



INSERTI PER SEDE RETTANGOLARE (mm)
INSERTS FOR RECTANGULAR SHAPE (mm)
SINTERIZZATO
SINTERED

METALLO DURO (HM)
HARD METAL (HM)


Disponibili anche inserti in METALLO DURO (ex: GR-INM2-P9/HM)
 HARD METAL inserts are also available (e.g. GR-INM2-P9/HM)

Cod. 	Tolleranza Tolerance	Tipo Type	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	Compatibile solo con serie Compatible only with series
GR-INM2-P9	P9	02	1,994	5	6,5	5	6	1,3	PM
GR-INM2-P9SM*	P9-SM	02	1,994	5	6,5	5	6	1,09	PM
GR-INM2-H7	H7	02	2,01	5	6,5	5	6	1,3	PM
GR-INM2-H7SM*	H7-SM	02	2,01	5	6,5	5	6	1,09	PM
GR-INM2-D10	D10	02	2,06	5	6,5	5	6	1,3	PM
GR-INM2-C11	C11	02	2,12	5	6,5	5	6	1,3	PM
GR-INM3-P9	P9	03	2,994	6,08	6,5	5	7,5	2	PM
GR-INM3-P9SM*	P9-SM	03	2,994	6,08	6,5	5	7,5	1,42	PM
GR-INM3-H7	H7	03	3,01	6,08	6,5	5	7,5	2	PM
GR-INM3-H7SM*	H7-SM	03	3,01	6,08	6,5	5	7,5	1,42	PM
GR-INM3-D10	D10	03	3,06	6,08	6,5	5	7,5	2	PM
GR-INM3-C11	C11	03	3,12	6,08	6,5	5	7,5	2	PM
GR-INM4-P9	P9	04	3,988	6,08	7	5	8	2,6	PM
GR-INM4-P9SM*	P9-SM	04	3,988	6,08	7	5	8	2,07	PM
GR-INM4-H7	H7	04	4,012	6,08	7	5	8	2,6	PM
GR-INM4-H7SM*	H7-SM	04	4,012	6,08	7	5	8	2,07	PM
GR-INM4-D10	D10	04	4,078	6,08	7	5	8	2,6	PM
GR-INM4-C11	C11	04	4,145	6,08	7	5	8	2,6	PM
GR-INM5-P9	P9	05	4,988	6,08	7	5	8	3	PM
GR-INM5-P9SM*	P9-SM	05	4,988	6,08	7	5	8	2,74	PM
GR-INM5-H7	H7	05	5,012	6,08	7	5	8	3	PM
GR-INM5-H7SM*	H7-SM	05	5,012	6,08	7	5	8	2,74	PM
GR-INM5-D10	D10	05	5,078	6,08	7	5	8	3	PM
GR-INM5-C11	C11	05	5,145	6,08	7	5	8	3	PM

* Per queste misure di inserti si consiglia di suddividere la lavorazione in due fasi: sgrossatura e finitura.

* For these insert dimensions, we recommend dividing the machining process into two stages: roughing and finishing.

Cod. 	Tolleranza Tolerance	Tipo Type	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	Compatibile solo con serie Compatible only with series
GR-INM6-P9	P9	06	5,988	10,08	9	6	13,5	4	PM
GR-INM6-P9SM*	P9-SM	06	5,988	10,08	9	6	13,5	3,3	PM
GR-INM6-H7	H7	06	6,012	10,08	9	6	13,5	4	PM
GR-INM6-H7SM*	H7-SM	06	6,012	10,08	9	6	13,5	3,3	PM
GR-INM6-D10	D10	06	6,078	10,08	9	6	13,5	4	PM
GR-INM6-C11	C11	06	6,145	10,08	9	6	13,5	4	PM
GR-INM8-P9	P9	08	7,985	10,08	9	6	13,5	4,5	PM
GR-INM8-P9SM*	P9-SM	08	7,985	10,08	9	6	13,5	3,78	PM
GR-INM8-H7	H7	08	8,015	10,08	9	6	13,5	4,5	PM
GR-INM8-H7SM*	H7-SM	08	8,015	10,08	9	6	13,5	3,78	PM
GR-INM8-D10	D10	08	8,098	10,08	9	6	13,5	4,5	PM
GR-INM8-C11	C11	08	8,17	10,08	9	6	13,5	4,5	PM
GR-INM10-P9	P9	10	9,985	13,1	14	10	18,5	6	PM
GR-INM10-P9SM*	P9-SM	10	9,985	13,1	14	10	18,5	3,88	PM
GR-INM10-H7	H7	10	10,015	13,1	14	10	18,5	6	PM
GR-INM10-H7SM*	H7-SM	10	10,015	13,1	14	10	18,5	3,88	PM
GR-INM10-D10	D10	10	10,098	13,1	14	10	18,5	6	PM
GR-INM10-C11	C11	10	10,17	13,1	14	10	18,5	6	PM
GR-INM12-P9	P9	12	11,982	13,1	14	10	18,5	6,5	PM
GR-INM12-P9SM*	P9-SM	12	11,982	13,1	14	10	18,5	3,89	PM
GR-INM12-H7	H7	12	12,018	13,1	14	10	18,5	6,5	PM
GR-INM12-H7SM*	H7-SM	12	12,018	13,1	14	10	18,5	3,89	PM
GR-INM12-D10	D10	12	12,12	13,1	14	10	18,5	6,5	PM
GR-INM12-C11	C11	12	12,205	13,1	14	10	18,5	6,5	PM
GR-INM14-P9	P9	14	13,982	18	14	10	22	7	PM
GR-INM14-P9SM*	P9-SM	14	13,982	18	14	10	22	4,71	PM
GR-INM14-H7	H7	14	14,018	18	14	10	22	7	PM
GR-INM14-H7SM*	H7-SM	14	14,018	18	14	10	22	4,71	PM
GR-INM14-D10	D10	14	14,12	18	14	10	22	7	PM
GR-INM14-C11	C11	14	14,205	18	14	10	22	7	PM
GR-INM16-P9	P9	16	15,982	18	14	10	22	8	PM
GR-INM16-P9SM*	P9-SM	16	15,982	18	14	10	22	5,53	PM
GR-INM16-H7	H7	16	16,018	18	14	10	22	8	PM
GR-INM16-H7SM*	H7-SM	16	16,018	18	14	10	22	5,53	PM
GR-INM16-D10	D10	16	16,12	18	14	10	22	8	PM
GR-INM16-C11	C11	16	16,205	18	14	10	22	8	PM
GR-INM18-P9 [▲]	P9	18	17,982	26	18	10	30	5,67	PM
GR-INM18-P9SM* [▲]	P9-SM	18	17,982	26	18	10	30	3,9	PM
GR-INM18-H7 [▲]	H7	18	18,018	26	18	10	30	5,67	PM
GR-INM18-H7SM* [▲]	H7-SM	18	18,018	26	18	10	30	3,9	PM
GR-INM18-D10 [▲]	D10	18	18,12	26	18	10	30	9	PM

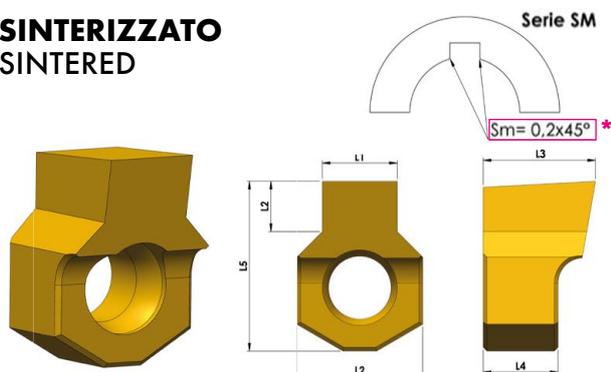
▲ Per queste misure di inserti si consiglia di suddividere la lavorazione in due fasi: sgrossatura e finitura.

▲ For these insert dimensions, we recommend dividing the machining process into two stages: roughing and finishing.

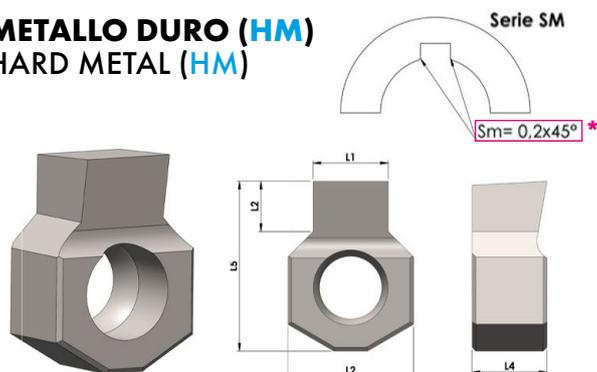
Cod.	Tolleranza Tolerance	Tipo Type	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	Compatibile solo con serie Compatible only with series
GR-INM20-P9▲	P9	20	19,978	26	18	10	30	6,29	PM
GR-INM20-P9SM*▲	P9-SM	20	19,978	26	18	10	30	4	PM
GR-INM20-H7▲	H7	20	20,021	26	18	10	30	6,29	PM
GR-INM20-H7SM*▲	H7-SM	20	20,021	26	18	10	30	4	PM
GR-INM22-P9▲	P9	22	20,149	26	18	10	30	10	PM
GR-INM22-P9SM*▲	P9-SM	22	21,978	26	18	10	30	6,79	PM
GR-INM22-H7▲	H7	22	22,021	26	18	10	30	11	PM
GR-INM22-H7SM*▲	H7-SM	22	22,021	26	18	10	30	6,79	PM
GR-INM22-D10▲	D10	22	22,149	26	18	10	30	11	PM
GR-INM22-C11▲	C11	22	22,205	26	18	10	30	11	PM
GR-INM25-P9▲	P9	25	24,978	26	18	10	30	7,02	PM
GR-INM25-P9SM*▲	P9-SM	25	24,978	26	18	10	30	4	PM
GR-INM25-H7▲	H7	25	25,021	26	18	10	30	7,02	PM
GR-INM25-H7SM*▲	H7-SM	25	25,021	26	18	10	30	4	PM
GR-INM25-D10▲	D10	25	25,149	26	18	10	30	12	PM
GR-INM25-C11▲	C11	25	25,24	26	18	10	30	12	PM

INSERTI PER SEDE RETTANGOLARE (pollici) INSERTS FOR RECTANGULAR SHAPE (inches)

SINTERIZZATO SINTERED



METALLO DURO (HM) HARD METAL (HM)



Disponibili anche inserti in METALLO DURO (ex: GR-INP2-3P32-P9/HM)
HARD METAL inserts are also available (e.g. GR-INP2-3P32-P9/HM)

Cod.	Tolleranza Tolerance	Tipo Type	L1 (mm)	L1 (pollici)	L2 (pollici)	L3 (pollici)	L4 (pollici)	L5 (pollici)	L6 (pollici)	Compatibile solo con serie Compatible only with series
GR-INP2-3P32-P9	P9	3/32"	2,375	0,0935	0,1968	0,2362	0,1968	0,2559	0,0551	PP
GR-INP2-3P32-H7	H7	3/32"	2,391	0,0941	0,1968	0,2362	0,1968	0,2559	0,0551	PP
GR-INP2-3P32-D10	D10	3/32"	2,441	0,0961	0,1968	0,2362	0,1968	0,2559	0,0551	PP
GR-INP2-3P32-C11	C11	3/32"	2,501	0,0984	0,1968	0,2362	0,1968	0,2559	0,0551	PP
GR-INP3-1P8-P9	P9	1/8"	3,163	0,1241	0,2393	0,2559	0,1968	0,2952	0,0905	PP
GR-INP3-1P8-H7	H7	1/8"	3,187	0,1255	0,2393	0,2559	0,1968	0,2952	0,0905	PP
GR-INP3-1P8-D10	D10	1/8"	3,253	0,128	0,2393	0,2559	0,1968	0,2952	0,0905	PP
GR-INP3-1P8-C11	C11	1/8"	3,2	0,1307	0,2393	0,2559	0,1968	0,2952	0,0905	PP

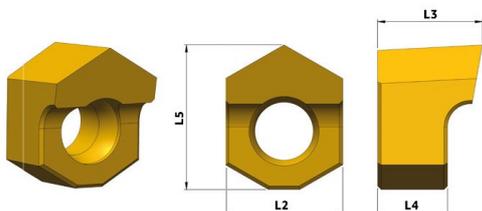
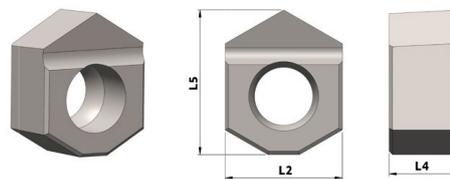
▲ Per queste misure di inserti si consiglia di suddividere la lavorazione in due fasi: sgrossatura e finitura.

▲ For these insert dimensions, we recommend dividing the machining process into two stages: roughing and finishing.

Cod.	Tolleranza Tolerance	Tipo Type	L1 (mm)	L1 (pollici)	L2 (pollici)	L3 (pollici)	L4 (pollici)	L5 (pollici)	L6 (pollici)	Compatibile solo con serie Compatible only with series
GR-INP4-5P32-P9	P9	5/32"	3,969	0,1555	0,2393	0,2755	0,1968	0,3149	0,1141	PP
GR-INP4-5P32-H7	H7	5/32"	3,981	0,1567	0,2393	0,2755	0,1968	0,3149	0,1141	PP
GR-INP4-5P32-D10	D10	5/32"	4,047	0,1593	0,2393	0,2755	0,1968	0,3149	0,1141	PP
GR-INP4-5P32-C11	C11	5/32"	4,114	0,1619	0,2393	0,2755	0,1968	0,3149	0,1141	PP
GR-INP5-3P16-P9	P9	3/16"	4,751	0,1871	0,2393	0,2755	0,1968	0,3149	0,1299	PP
GR-INP5-3P16-H7	H7	3/16"	4,774	0,1879	0,2393	0,2755	0,1968	0,3149	0,1299	PP
GR-INP5-3P16-D10	D10	3/16"	4,84	0,1905	0,2393	0,2755	0,1968	0,3149	0,1299	PP
GR-INP5-3P16-C11	C11	3/16"	4,908	0,1932	0,2393	0,2755	0,1968	0,3149	0,1299	PP
GR-INP6-1P4-P9	P9	1/4"	6,335	0,2494	0,3968	0,3543	0,2362	0,5314	0,1587	PP
GR-INP6-1P4-H7	H7	1/4"	6,365	0,2505	0,3968	0,3543	0,2362	0,5314	0,1587	PP
GR-INP6-1P4-D10	D10	1/4"	6,448	0,2538	0,3968	0,3543	0,2362	0,5314	0,1587	PP
GR-INP6-1P4-C11	C11	1/4"	6,52	0,2569	0,3968	0,3543	0,2362	0,5314	0,1587	PP
GR-INP8-9P32-P9	P9	9/32"	7,129	0,2806	0,3968	0,3543	0,2362	0,5314	0,1692	PP
GR-INP8-9P32-H7	H7	9/32"	7,159	0,2818	0,3968	0,3543	0,2362	0,5314	0,1692	PP
GR-INP8-9P32-D10	D10	9/32"	7,242	0,2851	0,3968	0,3543	0,2362	0,5314	0,1692	PP
GR-INP8-9P32-C11	C11	9/32"	7,314	0,2879	0,3968	0,3543	0,2362	0,5314	0,1692	PP
GR-INP8-5P16-P9	P9	5/16"	7,922	0,3119	0,3968	0,3543	0,2362	0,5314	0,1875	PP
GR-INP8-5P16-H7	H7	5/16"	7,952	0,313	0,3968	0,3543	0,2362	0,5314	0,1875	PP
GR-INP8-5P16-D10	D10	5/16"	8,036	0,3163	0,3968	0,3543	0,2362	0,5314	0,1875	PP
GR-INP8-5P16-C11	C11	5/16"	8,108	0,3191	0,3968	0,3543	0,2362	0,5314	0,1875	PP
GR-INP10-3P8-P9	P9	3/8"	9,511	0,3744	0,5157	0,5511	0,3937	0,7283	0,25	PP
GR-INP10-3P8-H7	H7	3/8"	9,54	0,3755	0,5157	0,5511	0,3937	0,7283	0,25	PP
GR-INP10-3P8-D10	D10	3/8"	9,623	0,3788	0,5157	0,5511	0,3937	0,7283	0,25	PP
GR-INP10-3P8-C11	C11	3/8"	9,695	0,3816	0,5157	0,5511	0,3937	0,7283	0,25	PP
GR-INP12-7P16-P9	P9	7/16"	11,094	0,4367	0,5157	0,5511	0,3937	0,7283	0,25	PP
GR-INP12-7P16-H7	H7	7/16"	11,13	0,4382	0,5157	0,5511	0,3937	0,7283	0,25	PP
GR-INP12-7P16-D10	D10	7/16"	11,232	0,4422	0,5157	0,5511	0,3937	0,7283	0,25	PP
GR-INP12-7P16-C11	C11	7/16"	11,318	0,4455	0,5157	0,5511	0,3937	0,7283	0,25	PP
GR-INP12-1P2-P9	P9	1/2"	12,682	0,4992	0,5157	0,5511	0,3937	0,7283	0,3	PP
GR-INP12-1P2-H7	H7	1/2"	12,718	0,5007	0,5157	0,5511	0,3937	0,7283	0,3	PP
GR-INP12-1P2-D10	D10	1/2"	12,82	0,5047	0,5157	0,5511	0,3937	0,7283	0,3	PP
GR-INP12-1P2-C11	C11	1/2"	12,905	0,508	0,5157	0,5511	0,3937	0,7283	0,3	PP
GR-INP1416-9P16-P9	P9	9/16"	14,27	0,5617	0,7086	0,5511	0,3937	0,8661	0,275	PP
GR-INP1416-9P16-H7	H7	9/16"	14,306	0,5632	0,7086	0,5511	0,3937	0,8661	0,275	PP
GR-INP1416-9P16-D10	D10	9/16"	14,408	0,5672	0,7086	0,5511	0,3937	0,8661	0,275	PP
GR-INP1416-9P16-C11	C11	9/16"	14,492	0,5705	0,7086	0,5511	0,3937	0,8661	0,275	PP
GR-INP1416-5P8-P9	P9	5/8"	15,857	0,6242	0,7086	0,5511	0,3937	0,8661	0,312	PP
GR-INP1416-5P8-H7	H7	5/8"	15,893	0,6257	0,7086	0,5511	0,3937	0,8661	0,312	PP
GR-INP1416-5P8-D10	D10	5/8"	15,995	0,6297	0,7086	0,5511	0,3937	0,8661	0,312	PP
GR-INP1416-5P8-C11	C11	5/8"	16,08	0,633	0,7086	0,5511	0,3937	0,8661	0,312	PP
GR-INP1825-3P4-P9▲	P9	3/4"	19,028	0,7491	1,024	0,7086	0,3937	1,181	0,393	PP
GR-INP1825-3P4-H7▲	H7	3/4"	19,071	0,7508	1,024	0,7086	0,3937	1,181	0,393	PP
GR-INP1825-3P4-D10▲	D10	3/4"	19,199	0,7558	1,024	0,7086	0,3937	1,181	0,393	PP
GR-INP1825-3P4-C11▲	C11	3/4"	19,29	0,7594	1,024	0,7086	0,3937	1,181	0,393	PP

▲ Per queste misure di inserti si consiglia di suddividere la lavorazione in due fasi: sgrossatura e finitura.

▲ For these insert dimensions, we recommend dividing the machining process into two stages: roughing and finishing.

INSERTI PER SEDE ESAGONALE - INSERTS FOR HEXAGONAL SHAPE
SINTERIZZATO - SINTERED

METALLO DURO (HM) - HARD METAL (HM)


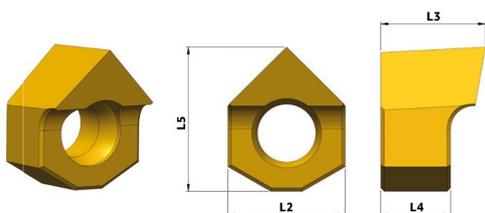
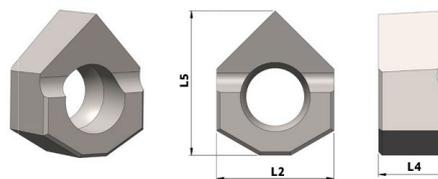
Disponibili anche inserti in **METALLO DURO (ex: GR-INE-0911/HM)**
HARD METAL inserts are also available (e.g. GR-INE-0911/HM)

Cod.		Campo di lavoro (mm) Working range (mm)	Campo di lavoro (pollici) Working range (inches)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	Utensile Tool
GR-INE-0911		9mm/11mm	0,354/0,433	6	7	5	7,5	PE-911
GR-INE-1117		11mm/17mm	0,433/0,669	6	7	5	8	PE-1117
GR-INE-1728		17mm/28mm	0,669/1,102	10	9	6	13,5	PE-1728
GR-INE-2837		28mm/37mm	1,102/1,456	13	14	10	18,5	PE-2837
GR-INE-3745		37mm/45mm	1,456/1,771	18	14	10	22	PE-3745

Per realizzare fori esagonali interni si deve eseguire un preforo il cui diametro è dato dalla seguente formula:

$$\text{DIAMETRO PREFORO} = \text{LATO DELL'ESAGONO} \times 1,020$$

Ad esempio, nel caso di sede esagonale con lato 10 mm il diametro del preforo sarà: 10 mm x 1,020 = 10,20 mm

INSERTI PER SEDE QUADRATA - INSERTS FOR SQUARE SHAPE
SINTERIZZATO - SINTERED

METALLO DURO (HM) - HARD METAL (HM)


Disponibili anche inserti in **METALLO DURO (ex: GR-INQ-0810/HM)**
HARD METAL inserts are also available (e.g. GR-INQ-0810/HM)

Cod.		Campo di lavoro (mm) Working range (mm)	Campo di lavoro (pollici) Working range (inches)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	Compatibile solo su utensile Compatible only with tool
GR-INQ-0810		8mm/10mm	0,314/0,393	6	7	5	7	PQ-810
GR-INQ-1013		10mm/13mm	0,393/0,511	6	7	5	7,5	PQ-1013
GR-INQ-1316		13mm/16mm	0,511/0,629	10	8	6	12	PQ-1316
GR-INQ-1619		16mm/19mm	0,629/0,748	10	8	6	12,5	PQ-1619
GR-INQ-1927		19mm/27mm	0,748/1,062	13	13	10	17	PQ-1927
GR-INQ-2737		27mm/37mm	1,062/1,456	18	14	10	22	PQ-2737

Per realizzare fori quadri interni si deve eseguire un preforo il cui diametro è dato dalla seguente formula:

$$\text{DIAMETRO PREFORO} = \text{LATO DEL QUADRO} \times 1,050$$

Ad esempio, nel caso di sede quadrata con lato 10 mm il diametro del preforo sarà: 10 mm x 1,050 = 10,50 mm