GERARDI

- 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

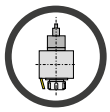
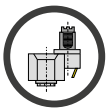
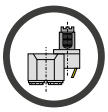
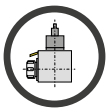
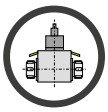
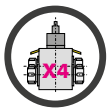
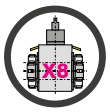
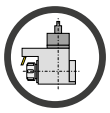
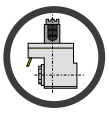
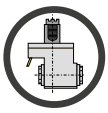
Takisawa Taiwan
lathes

Nuova gammad i motorizzati per torni TAKISAWA TAIWAN lathes
New range of Driven Tools for TAKISAWA TAIWAN lathes

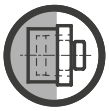
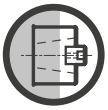
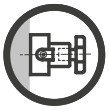
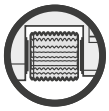
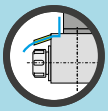
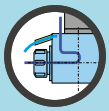
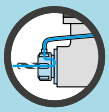
Tsugami
lathes

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				 **Refigerante Esterno** External Coolant	 **Refigerante Interno** Internal Coolant **20 / 25 / 80 100bar**	 **Refigerante Interno** Internal Coolant **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

Più di 1000 modelli disponibili - More than 1000 types available

Velocità / High-speed
24.000 Rpm

Internal coolant
fino a / Up to
100 Bar

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, tuttl 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 interchangeble with the standard ER collets according 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 spiroidali 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 suplly 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.

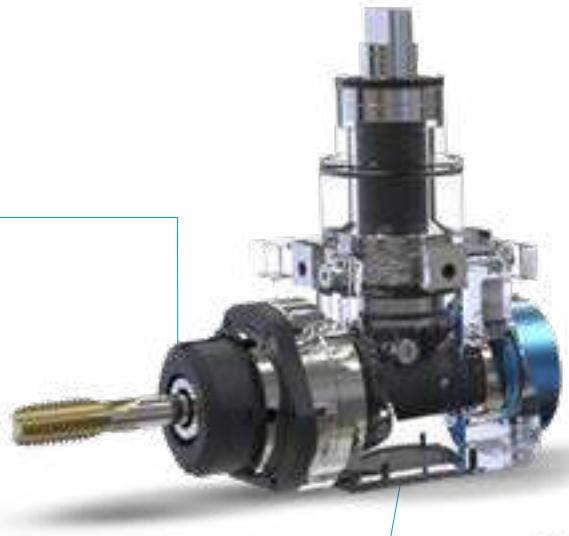
SCAN IT TO SEE
THE WEB PAGE

2 YEARS WARRANTY

Upgrade your lathe and boost productivity!

Presa di moto intercambiabile per le varie tipologie di torrette Haas

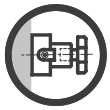
Interchangeable couplings for the different Haas turret



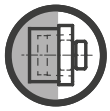
Attacco VDI
VDI attachment

Attacco BMT
BMT Attachment

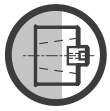
USCITE DISPONIBILI
AVAILABLE OUTPUTS


PORTAFRESA
TOOLHOLDER

CAPTO


HSK

WELDON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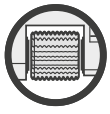

PORTACREATORE
DRIVEN GEAR HOBBER

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

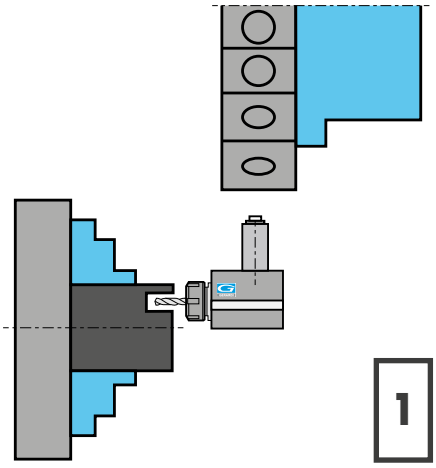
Re-Cool Nut Ghiera Re-Cool MAX **150bar**

» **Mandrino Macchina**
» **Corpo Motorizzato**
» **Ghiera Re-Cool**
» **Utensile**

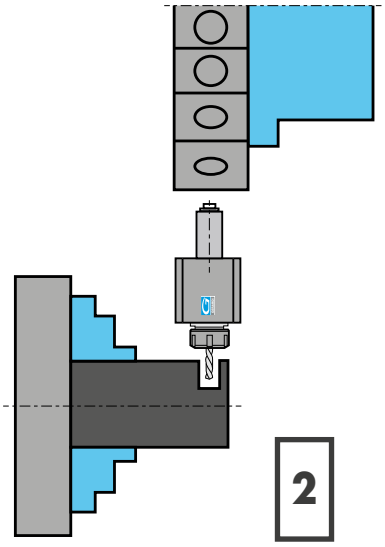
» Machine Spindle
» Driven Tool Body
» Re-Cool Nut
» Tool

DENOMINAZIONE UTENSILE
TOOL DESIGNATION

Montaggio TANGENZIALE - OD Mounting

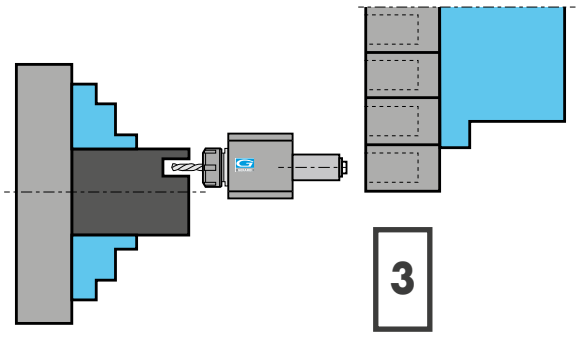


1 **Motorizzato RADIALE per lavorazioni assiali**
RADIAL driven tool for axial machining

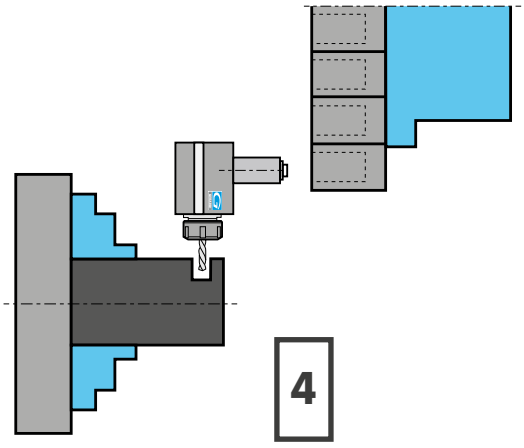


2 **Motorizzato ASSIALE per lavorazioni radiali**
AXIAL driven tool heads for radial machining

Montaggio FRONTALE - FACE Mounting



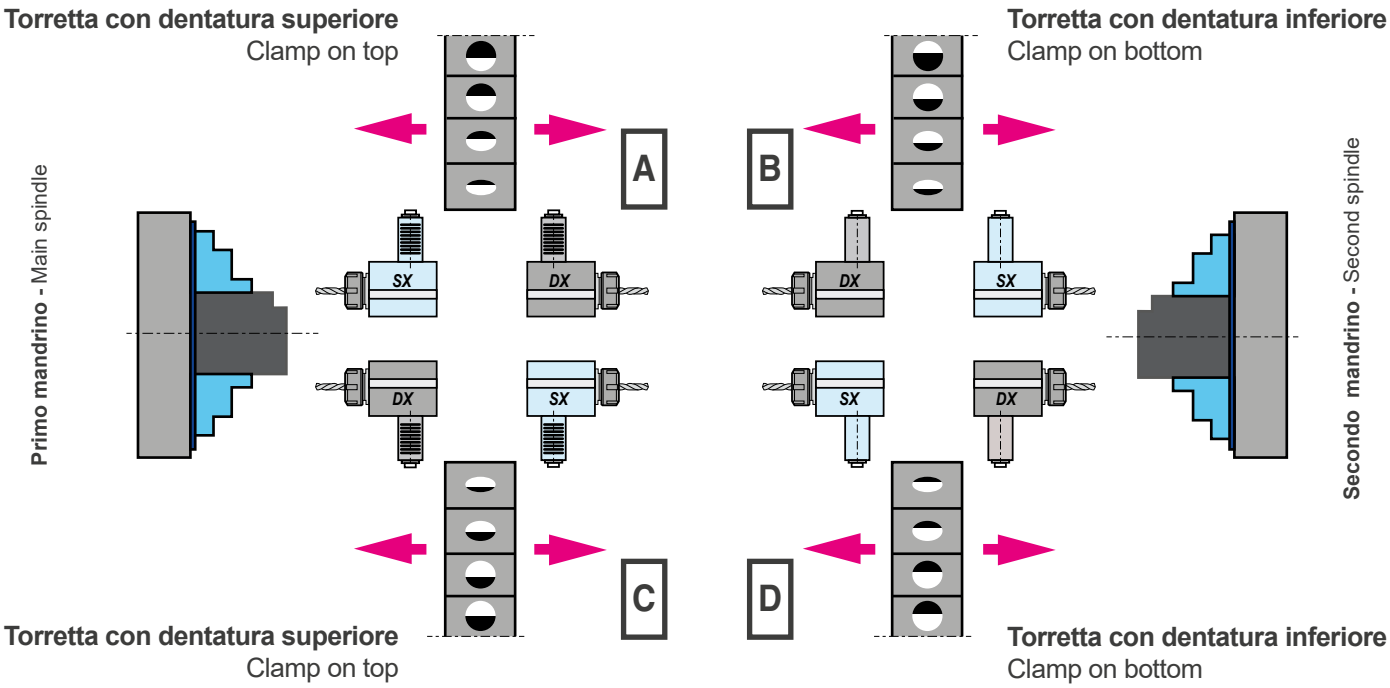
3 **Motorizzato ASSIALE per lavorazioni assiali**
AXIAL driven tool for axial machining



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

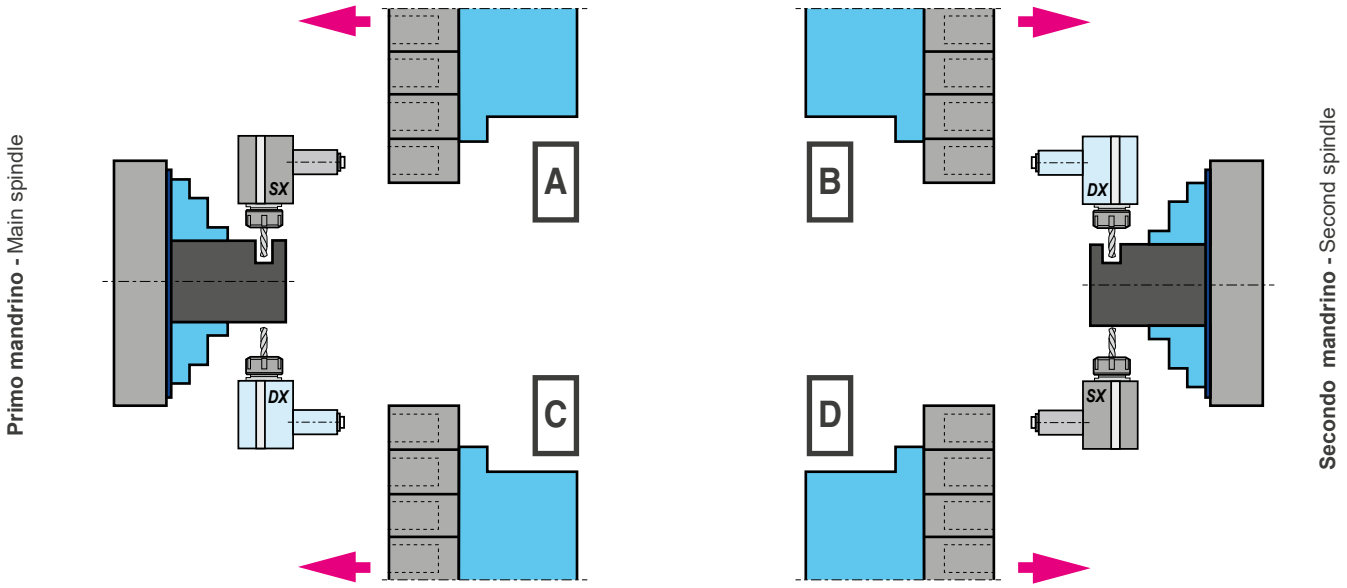
MOTORIZZATI RADIALI PER LAVORAZIONI ASSIALI
RADIAL DRIVEN TOOLS FOR AXIAL MACHINING

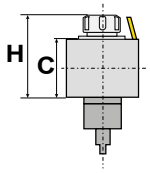
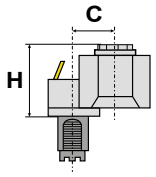
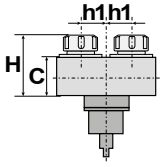
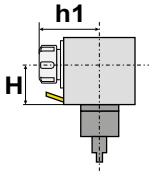
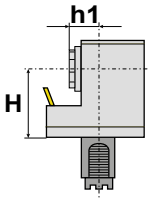
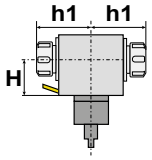
Montaggio TANGENZIALE - OD Mounting

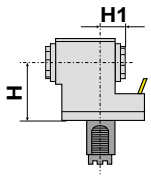
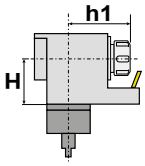
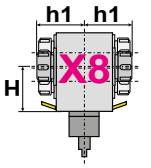
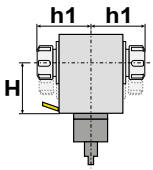
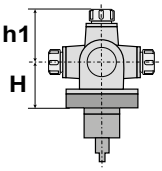
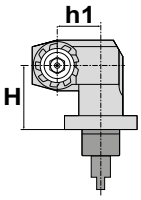


MOTORIZZATI RADIALI PER LAVORAZIONI RADIALI
RADIAL DRIVEN TOOLS FOR RADIAL MACHINING

Montaggio FRONTALE - FACE Mounting



FORMA SHAPE	DESCRIZIONE DESCRIPTION	APPLICAZIONE APPLICATION	
Assiale Axial	**L'asse dell'utensile è in linea all'asse della torretta o del mandrino** The tool axis is aligned to the turret or spindle axis	**Lavorazioni di foratura, fresatura o maschiatura sulla faccia frontale del pezzo** Drilling, milling or tapping operations on the frontal side of the workpiece	
Assiale Disassato Offset Axial	**L'asse dell'utensile è in linea ma traslato rispetto all'asse della torretta** The tool axis is aligned with, but offset from, the turret axis	**Lavorazioni frontali su flange di grande diametro o in situazioni in cui serve gestire spazi ristretti** Front-facing machining on large-diameter flanges or in situations where tight spaces need to be managed	
Assiale 2 Uscite Axial 2 Outputs	**Un corpo unico ospita due uscite parallele orientate nella stessa direzione in linea con l'asse torretta** A single body contains two parallel outputs facing the same direction, aligned with the turret axis	**Aumento delle potenziali posizioni di una torretta e possibilità di fare due diverse lavorazioni contemporaneamente** Increased number of potential positions on a turret and the possibility of performing two different machining operations simultaneously	
Radiale Radial	**L'asse dell'utensile è perpendicolare all'asse della torretta o del mandrino** The tool axis is perpendicular to the turret or spindle axis	**Lavorazioni di foratura, fresatura o maschiatura sul diametro esterno del pezzo** Drilling, milling or tapping operations on the outer diameter of the workpiece	
Radiale Arretrato Rear Offset Radial	**L'asse dell'utensile è perpendicolare all'asse della torretta o del mandrino ma traslato verso il corpo del motorizzato** The tool axis is perpendicular to the axis of the turret or spindle but offset towards the motorised unit	**Lavorazioni sul diametro esterno di un pezzo di grandi dimensioni o in situazioni in cui serve gestire spazi ristretti** Machining on the outer diameter of a large workpiece or in situations where tight spaces need to be managed	
Radiale Doppio Double Radial	**Il motorizzato ha due uscite situate sullo stesso asse radiale, ma rivolte in direzioni opposte** The driven tool has two outputs situated on the same radial axis, but facing in opposite directions	**Esecuzione di due operazioni radiali diverse (es. sgrossatura e finitura) spostando solo l'asse X e Z del tornio** Performing two different radial operations (e.g. roughing and finishing) by moving only the X and Z axes of the lathe	

FORMA SHAPE	DESCRIZIONE DESCRIPTION	APPLICAZIONE APPLICATION	
Radiale Doppio Arretrato Double Rear Offset Radial	**Le due uscite sono spostate all'indietro rispetto all'asse centrale del gambo** The two outputs are set back from the central axis of the stem	**Esecuzione di due operazioni radiali diverse e possibilità di maggior gestione delle situazioni in cui serve gestire spazi ristretti** Performing two different radial operations and greater flexibility in handling situations where working in tight spaces is required	
Radiale Rovesciato Radial Upside Down	**L'asse dell'utensile è perpendicolare all'asse della torretta o del mandrino ma con il tagliente rivolto in direzione opposta** The tool axis is perpendicular to the axis of the turret or spindle, but with the cutting edge facing in the opposite direction	**Lavorazioni di foratura, fresatura o maschiatura sul diametro esterno del pezzo da effettuare sul contromandrino** Drilling, milling or tapping operations on the outer diameter of the workpiece to be carried out on the sub-spindle	
Radiale 8 Uscite Radial 8 Outputs	**Il corpo del motorizzato è simmetrico rispetto all'asse della torretta e presenta 4 uscite sul lato sinistro e 4 uscite sul lato destro** The driven tool body is symmetrical in relation to the turret axis and has 4 outputs on the left side and 4 outputs on the right side	**Ideale per torni con poche posizioni. Drastica riduzione del fermo macchina con quattro lavorazioni contemporanee possibili** Ideal for lathes with limited positioning. Significant reduction in machine downtime, with the possibility of carrying out four operations simultaneously	
Radiale Doppio 2 Uscite su Asse Y Double Radial 2 Outputs on Y-axis	**Due coppie di uscite parallele tra loro e distanziate lungo l'asse Y della macchina** Two pairs of outputs arranged in parallel and spaced apart along the machine's Y-axis	**Entrambi i lati consentono di fare due lavorazioni e cambiare velocemente spostando asse Y senza rotazione torretta** Both sides allow the machine to perform two operations and change quickly by moving the Y-axis without rotating the turret	
Orientabile Adjustable	**Permettono di inclinare l'asse dell'utensile secondo un angolo specifico richiesto dalla lavorazione** They allow the tool axis to be tilted to a specific angle required for the machining operation	**Fori inclinati, smussi o lavorazioni su facce non ortogonali** Angled holes, chamfers or machining on non-perpendicular surfaces	
Porta Creatore Gear Hobber	**Dotato di una fresa specifica (creatore) su un albero rigido, montato su un supporto basculante** Equipped with a specific milling cutter on a rigid shaft, mounted on a pivoting support	**Dentatura di ingranaggi cilindrici, elicoidali o viti senza fine direttamente in macchina, eliminando la ripresa su dentatrice** Cutting of cylindrical, helical or worm gears directly on the machine, eliminating the need for a second pass on a gear cutting machine	

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	**LP06** 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 4.13 a 4.23
	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	

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DRIVEN TOOLS COMPATIBILITY

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Costruttore Builder Brand	**Torretta** Turret	**Modelli Macchina** Lathe or turret Models	**LP06** Pages
Sauter	VDI 60	Axial VDI 60, DIN 5480, right | Radial VDI 60, DIN 5480	
Victor	VDI 30	VTurn-A16/20SCV, YCV, YSCV | VTurn-A16/20CV | VTurn II-16/20YCV | VTurn II-16/20CV	Da 4.13 a 4.23
	VDI 40	VTurn-A26SCV, YCV, YSCV | VTurn-A26CV | VTurn II-23/26CV | VTurn II-23/26BCV, YCV	
	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 4.25 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	Da 4.31 a 4.38
Ecoca	VDI 20	SJ-20MC	
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	Da 4.39 a 4.46
Emag	VDI 40	VSC 200, 250 | VLC 250 | VL 2, 3, 4, 5, 6, 7	
	VDI 50	VSC 315, 400, 500, 7, VL 7, 8	
Emco	VDI 20	ET 342 TCM - DIN1809 version	
	VDI 30	EMCOMAT E300	

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Costruttore Builder Brand	**Torretta** Turret	**Modelli Macchina** Lathe or turret Models	**LP06** Pages
Emco	VDI 50	EMCOTURN 700 MC | EMCOTURN 800 MC	Da 4.39 a 4.46
	VDI 60	EMCOTURN 900 MC | Maxxturn 200 (VDI60)	
Gildemeister	VDI 20	CTX 200 - DIN1809 version	
Hardinge	VDI 40	GS 200, 250 MSY	
Hurco	VDI 30	TMM 8i	
	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	
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 5.25 a 5.30
	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 5.34 a 5.35
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	

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	**LP06** Pages
Takisawa Taiwan	BMT45	FX-1500	Da 5.34 a 5.35
Tornos		SwissDECO 36 TB	
Victor		VTurn-NP16CM	
Accuway	BMT55	UT-100, 200 Y	Da 5.36 a 5.37
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		GTX/GTZ-2000, 2600 M/Y (16 station)	
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	BMT65	VTurn-A260YCM, YSCM (16ST, BMT55) | VTurn-Q200 | VTurn-NP20CM, S20CM | VTurn-A16/20CM/200CM, SCM, YCM, YSCM	Da 5.38 a 5.39
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 Inverturn 3000 M | Puma 3100 M/Y/MY | Puma 300 M/MS | Puma 2100,2600(II) M/MS/Y/SY	
Ecoca		MT-3/MT-4 MC/MCSY	
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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Costruttore Builder Brand	**Torretta** Turret	**Modelli Macchina** Lathe or turret Models	**LP06** Pages
Hwacheon	BMT65	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	Da 5.38 a 5.39
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		GL 350M/Y/S	
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	BMT75	Puma V8300 M (ATC) | Puma V8300 M | Puma 4100, 5100 M/LM/LY	Da 5.40 a 5.41
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		LV500, 8500RM/LM | LV500RM/LM | SKT400M/LMC | LV800RM/LM / SKT-V80RM/LM | L400,4000,5100M/LM/MC/LMC/LY	
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	BMT85	TBMR/TBYR 320	5.42
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		Maxxturn 200	
Focus		FBL-510, 520, 530, 540MC	
Hwacheon		Hi-Tech 750 MC/YMC | VT 950 MC | VT 1150 MC | Hi-Tech 850 MC/YMC	
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)	Da 5.43 a 5.53
Takisawa		TS-4000 II T12 (3 key turret) | TS-3000, 4000, 5000 T12 (3 key turret)	
Accuway	NZ	UT-2000 T2M (BMT40) | UT-200 Y/SY, UZ-2000 (BMT40)	
Dmg Mori		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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Costruttore Builder Brand	**Torretta** Turret	**Modelli Macchina** Lathe or turret Models	**LP06** Pages
Cmz	SL / ZL / DL	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	Da 5.43 a 5.53
Dmg Mori		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)	
Goodway		GS 200/230/260/280 (M/MS) | GA 2000/2600/2800/3000/3300/3600 (M)	
GOODWAY		**G1, G3, G4**	
Goodway	G1	GLS100-GTS150 M (Bevel Gear version) | GTS-150 M (Bevel Gear version) | GLS-150 M (Bevel Gear version) | GLA-1500 M	Da 5.55 a 5.57
	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		**104.85, 117.55, 130.25**	
Haas	L = 104,85	SL-20/30 (VDI turret)	Da 5.59 a 5.63
	L = 117,55	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)	
	L = 130,25	ST-40/45, ST-40/45 L (12 st. hybrid turret) | SL-40 (12 station hybrid turret)	
MAZAK		**MZ1, MZ2, MZ3, MQ1, MQ2**	
Mazak	QTN1	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 5.65 a 5.74
	QTN2	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)	
	QTN3	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	
	QTS1 Ø68	QT/QTS 100/150/200/250 (M/MY/MS/MSY) | QTC/QTU 100/150/200/250/300 (M/MY/MS/MSY)	
	HQ1	Multiplex 6200Y (16D, VDI40-MQ1) | Multiplex 6100 | HQR 200, 250 MSY/NEO (16D, VDI40-MQ1) | HQR 100, 150 MSY	
	HQ2	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	Da 5.75 a 5.80
Accuway	Ø45	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)	
Miyano		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		**BMT44, BMT55, BMT65, BMT75**	
Goodway	BMT44	GTZ-1500Y	Da 5.81 a 5.86
Muratec		MT 100, 1051, 1065 (15-Station)	
Nakamura		MX-100 | WT-100 | Super NTMX, MX-5 | SC-100 | NTY³-100(V), WY-100 II/V (12 ST) | NTJ-100	
Accuway	BMT55	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)	
Muratech		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 NTM³ | Super NTJX | Super NTJ | SC-250 | SC-200 | SC-150 | NTY³-150(V), 250, WY-150(V), 250 | AS-200 (15 ST) | AS-200 (12 ST)	
Averex	BMT65	MTX1-76 SY1, MTX2-76 SY2	
Nakamura		WT-300 | TW-20 (12 ST) | Super NTX | SC-300 II | SC-300	
Nakamura	BMT75	TW-30 | STW-40 | STS-40 | SC-450	

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Costruttore Builder Brand	**Torretta** Turret	**Modelli Macchina** Lathe or turret Models	**LP06** Pages
OKUMA		**VDI30-1, VDI40-2, VDI40-3, BMT55, BMT60**	
Okuma	VDI30-1	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	Da 5.87 a 5.93
	VDI40-2	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	
	VDI40-3	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)	Da 5.95 a 5.98
Baruffaldi	VDI 25SP	TD 42, 65 - TC,TTC 300	
	VDI30	TC 400 - 600(MC, MCY, SMCY)	
	VDI40	TC 800 MCY/MC | TC 600(MC, MCY, SMCY)	
	VDI50	TC 77, 110, 800(MC, MCY, SMCY)	
TAKISAWA T.		**BMT60**	Da 5.99 a 5.101
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	
TSUGAMI		**BMT65**	Da 5.103 a 5.108
Tsugami	BMT65	M06, M08 D/SD/SY, M10D	

HIGH PERF.

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NEW UPGRADED DRIVEN TOOLS AVAILABLE !!

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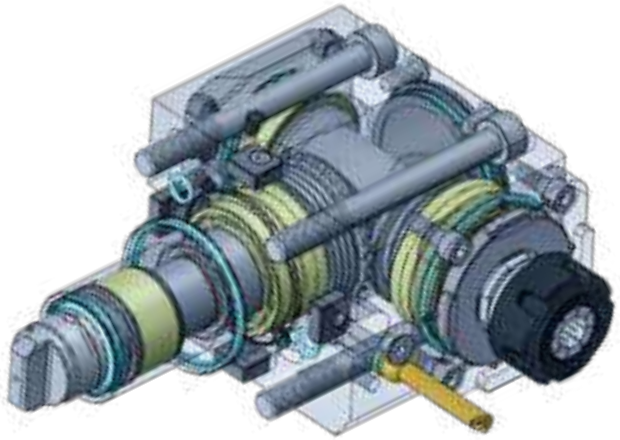
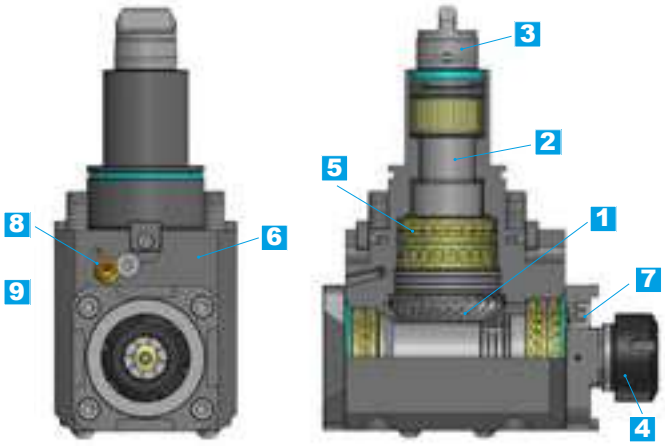




1 - INGRANAGGI GLEASON

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 ghiere 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 TRASMISSION

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.

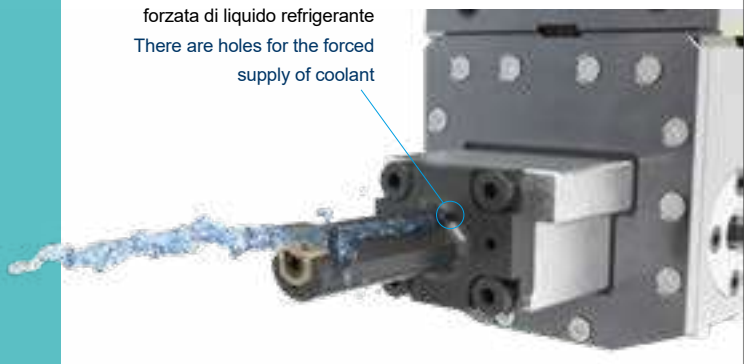
The motorized slotter has been designed to effectively solve the problem of machining certain parts on a CNC lathe, ranging from simple keyways to internal or external tooth profiles.

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.

SCAN IT TO SEE THE WEB PAGE

2 YEARS WARRANTY

Il revoluzionario sistema di utensili!

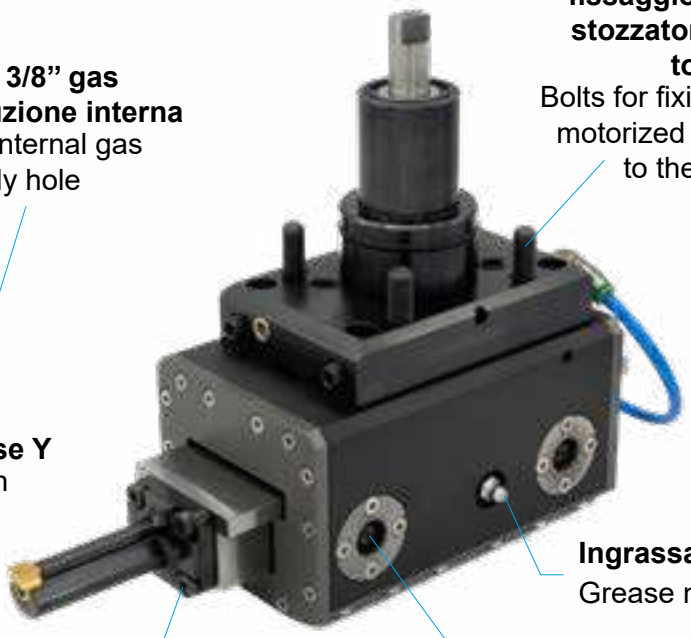
The revolutionary tooling system!

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.

SCARICA IL CAPITOLO
DOWNLOAD 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

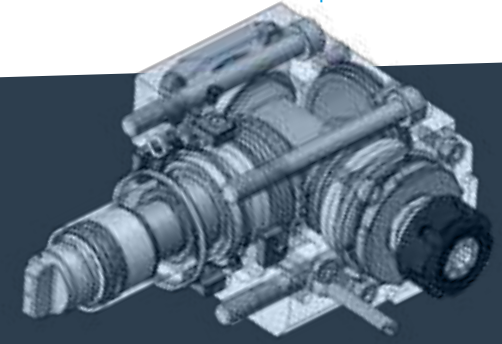
- Possibility of dry running at high speeds (but with values reduced by 70%)
- Continuous improvement of sealing technology

CHIAVE DI BLOCCAGGIO CON SISTEMA "SENZA MANI"

'Hands-free' locking wrench

- La chiave di bloccaggio dell'albero portapinza rimane fissa liberando una mano per un migliore serraggio dell'utesile
- Ridotto il tempo operativo di attrezzaggio

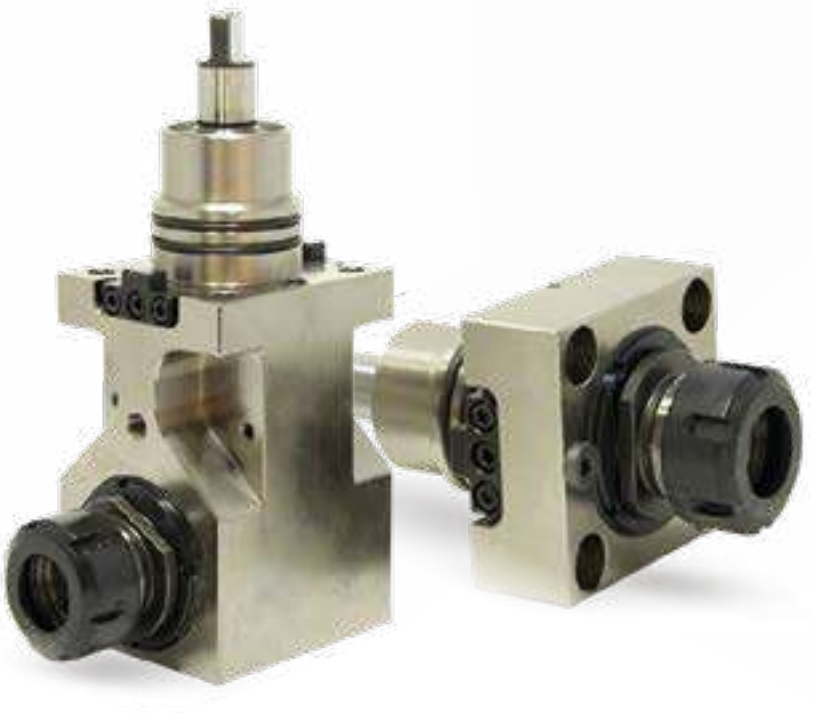
- The collet holder shaft locking key remains fixed, freeing one hand for better tightening of the tool
- Reduced operating time when tooling up the machine.



Scansiona il QR Code per scaricare il capitolo e contatta il tuo Agente di zona!!

Scan the QR Code to download the chapter and contact your local agent!

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 noozle Art.183 / noozle lock screws / driven tool locking screws

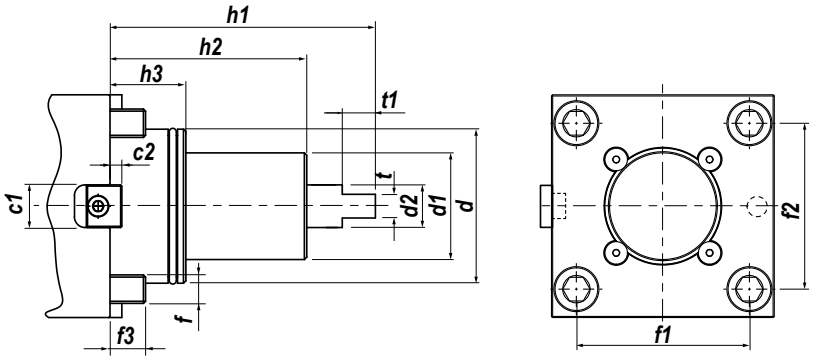
CAMBI RAPIDI MODULARI
MODULAR QUICK CHANGE

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	Ø15	M8	50	50	14	58	43	20	7	10
BMT55	Ø15	5	Ø55	Ø48	Ø21,5	M10	63	65	12	94	53	28	8	17



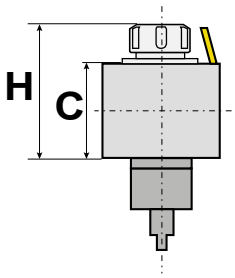
IN FASE D'ORDINE SPECIFICARE - IN CASE OF ORDER PLEASE SPECIFY:
costruttore, modello e numero posizioni in torretta - machine builder, model and turret position numbers

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Biglia

Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

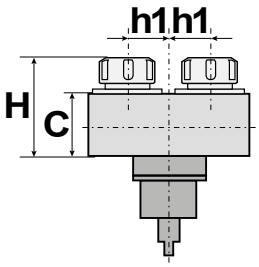
ASSIALE - AXIAL



L'asse dell'utensile è in linea all'asse della torretta o del mandrino

The tool axis is aligned to the turret or spindle axis

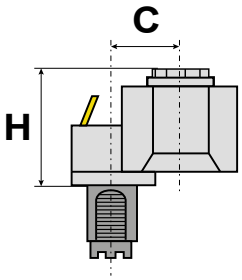
ASSIALE 2 USCITE - AXIAL 2 OUTPUTS



Un corpo unico ospita due uscite parallele orientate nella stessa direzione in linea con l'asse torretta

A single body contains two parallel outputs facing the same direction, aligned with the turret axis

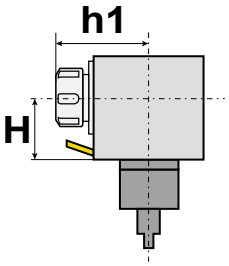
ASSIALE DISASSATO - OFFSET AXIS



L'asse dell'utensile è in linea ma traslato rispetto all'asse della torretta

The tool axis is aligned with, but offset from, the turret axis

RADIALE - RADIAL



L'asse dell'utensile è perpendicolare all'asse della torretta o del mandrino

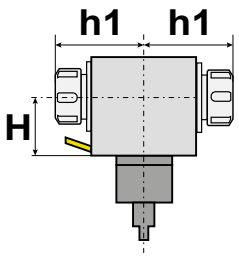
The tool axis is perpendicular to the turret or spindle axis

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Biglia

Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

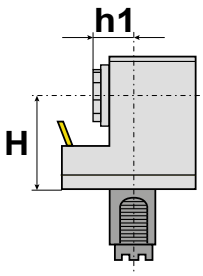
RADIALE DOPPIO - DOUBLE RADIAL



Il motorizzato ha due uscite situate sullo stesso asse radiale, ma rivolte in direzioni opposte

The driven tool has two outputs situated on the same radial axis, but facing in opposite directions

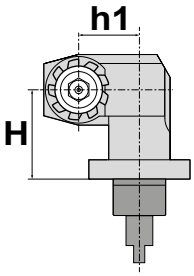
RADIALE ARRETRATO - RADIAL REAR OFFSET



L'asse dell'utensile è perpendicolare all'asse della torretta o del mandrino ma traslato verso il corpo del motorizzato

The tool axis is perpendicular to the axis of the turret or spindle but offset towards the motorised unit

PORTA CREATORE - DRIVEN GEAR HOBBER



Dotato di una fresa specifica (creatore) su un albero rigido, montato su un supporto basculante

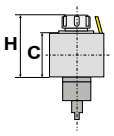
Equipped with a specific milling cutter on a rigid shaft, mounted on a pivoting support

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Biglia

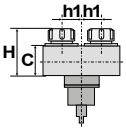
Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

SCAN IT TO SEE
THE TECHNICAL SHEETS



ASSIALE
AXIAL

Code	Output		Int Cool.	H	C	Nm	Ratio	Rpm	Kg	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	h1	Nm	Ratio	Rpm	Kg	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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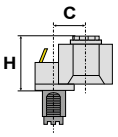
MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Biglia

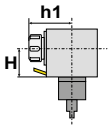
Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

SCAN IT TO SEE
THE TECHNICAL SHEETS



ASSIALE DISASSATO
AXIAL OFFSET

Code	Output		Int Cool.	H	C	Nm	Ratio	Rpm	Kg	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	Kg	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	↻	↓

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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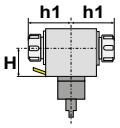
MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Biglia

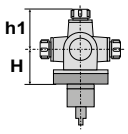
Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

SCAN IT TO SEE
THE TECHNICAL SHEETS



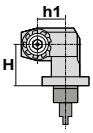
RADIALE DOPPIO
RADIAL DOUBLE

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



ORIENTABILE
ADJUSTABLE

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

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
Scarica il PDF / PDF Download

BMT

Bolt Mounted Turret

BMT 45 / 55 / 65 / 75 / 85

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 noozle Art.183 / noozle lock screws / driven tool locking screws

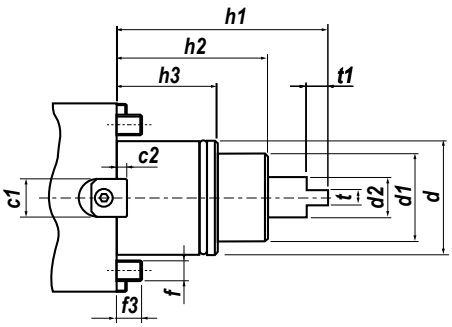
CAMBI RAPIDI MODULARI
MODULAR QUICK CHANGE

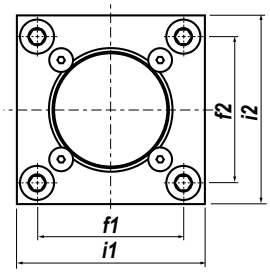
Facile e veloce sistema modulare per il cambio rapido delle diverse tipologie di portautensili con la sede per pinza ER (DIN6499).

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

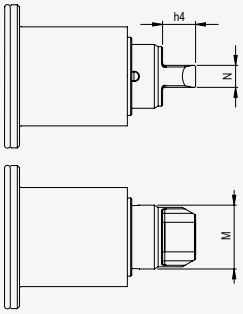
Il valore della coppia, espresso in Nm, è il massimo consentito. Per una maggiore durata, si consiglia di mantenerlo sotto tale soglia
The torque value, expressed in Nm, is the maximum allowed. For longer life, it is recommended to keep it below this limit

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



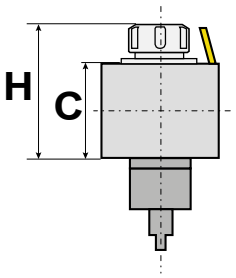
IN FASE D'ORDINE SPECIFICARE - IN CASE OF ORDER PLEASE SPECIFY:
costruttore, modello e numero posizioni in torretta - machine builder, model and turret position numbers

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 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

ASSIALE - AXIAL

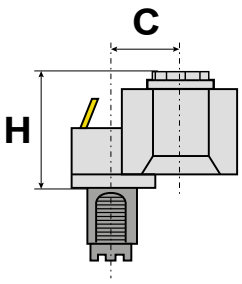


L'asse dell'utensile è in linea all'asse della torretta o del mandrino

The tool axis is aligned to the turret or spindle axis

DISPONIBILE ANCHE CON TENONE MAGGIORATO
ALSO AVAILABLE WITH BIGGER TENON

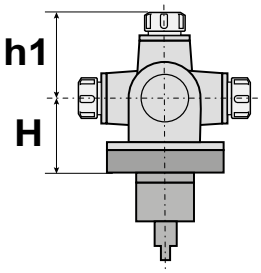
ASSIALE DISASSATO - OFFSET AXIS



L'asse dell'utensile è in linea ma traslato rispetto all'asse della torretta

The tool axis is aligned with, but offset from, the turret axis

ORIENTABILE - ADJUSTABLE



Permettono di inclinare l'asse dell'utensile secondo un angolo specifico richiesto dalla lavorazione

They allow the tool axis to be tilted to a specific angle required for the machining operation

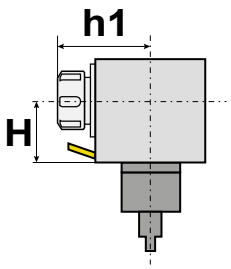
DISPONIBILE ANCHE CON TENONE MAGGIORATO
ALSO AVAILABLE WITH BIGGER TENON

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 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

RADIALE - RADIAL

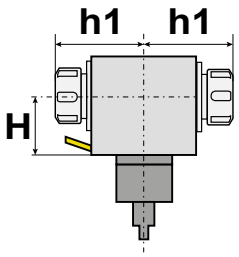


L'asse dell'utensile è perpendicolare all'asse della torretta o del mandrino

The tool axis is perpendicular to the turret or spindle axis

DISPONIBILE ANCHE CON TENONE MAGGIORATO
ALSO AVAILABLE WITH BIGGER TENON

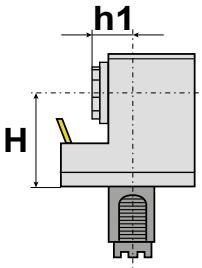
RADIALE DOPPIO - DOUBLE RADIAL



Il motorizzato ha due uscite situate sullo stesso asse radiale, ma rivolte in direzioni opposte

The driven tool has two outputs situated on the same radial axis, but facing in opposite directions

RADIALE ARRETRATO - RADIAL REAR OFFSET



L'asse dell'utensile è perpendicolare all'asse della torretta o del mandrino ma traslato verso il corpo del motorizzato

The tool axis is perpendicular to the axis of the turret or spindle but offset towards the motorised unit

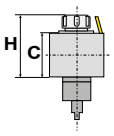
DISPONIBILE ANCHE CON TENONE MAGGIORATO
ALSO AVAILABLE WITH BIGGER TENON

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

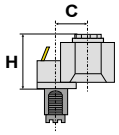
Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

SCAN IT TO SEE
THE TECHNICAL SHEETS



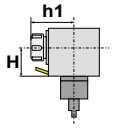
ASSIALE
AXIAL

Code	Output		Int Cool.	H	C	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.DS.A03	ER-25	Ø1÷16	-	57.2	40	20	1 : 1	6.000	2		
99.DS.A04	ER-25	Ø1÷16	• 80 bar	57.2	40	20	1 : 1	6.000	2		
99.DS.A05	ER-16	Ø1÷10	-	86.5	57	12	1 : 4	32.000	45		
99.DS.A83	ER-32	Ø2÷20	-	80.2	40	20	1 : 1	6.000	3		
99.DS.A84	ER-32	Ø2÷20	• 80 bar	80.2	40	20	1 : 1	6.000	2		



ASSIALE DISASSATO
AXIAL OFFSET

Code	Output		Int Cool.	H	C	Nm	Ratio	Rpm	Kg	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	Kg	Sense of Rotation	Tech. Draw
99.DS.A07	ER-25	Ø1÷16	-	65	84,9	20	1 : 1	6.000	5		
99.DS.A07C	ER-25	Ø1÷16	-	65	84,9	20	1 : 1	6.000	5		
99.DS.A08	ER-25	Ø1÷16	• 80 bar	65	84,9	20	1 : 1	6.000	5		
99.DS.A08C	ER-25	Ø1÷16	• 80 bar	65	84,9	20	1 : 1	6.000	5		
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.A09	ER-16	Ø1÷10	-	65	69,7	12	1 : 4	32.000	5		
99.DS.A10	ER-16	Ø1÷10	-	65	73,3	15	1 : 2	16.000	5		
99.DS.A87	ER-32	Ø2÷20	-	65	93,6	35	1 : 1	8.000	6		
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		

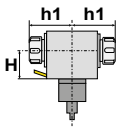
ER Portapinza / Collet Holder
PF Portafresa / Shell Mill Holder
Uguale al Mandrino / Same as Spindle
Opposto al Mandrino / Opposite as Spindle
Refrigerante Interno / Internal Coolant
Scarica il PDF / PDF Download

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

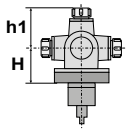
Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
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	7		↓
99.DS.A68	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.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	Kg	Sense of Rotation	Tech. Draw
99.DS.A13	ER-25 / ER-25	Ø1÷16 / Ø1÷16	-	65	84,9	20	1 : 1	6.000	5		↓
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	Kg	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		↓

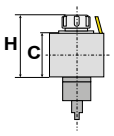
ER Portapinza / Collet Holder
PF Portafresa / Shell Mill Holder
Uguale al Mandrino / Same as Spindle
Opposto al Mandrino / Opposite as Spindle
Refrigerante Interno / Internal Coolant
Scarica il PDF / PDF Download

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

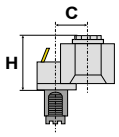
Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

SCAN IT TO SEE
THE TECHNICAL SHEETS



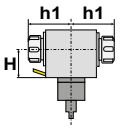
ASSIALE
AXIAL

Code	Output		Int Cool.	H	C	Nm	Ratio	Rpm	Kg	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	↻	↓



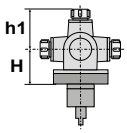
ASSIALE DISASSATO
AXIAL OFFSET

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



ORIENTABILE
ADJUSTABLE

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	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.A01**T**)

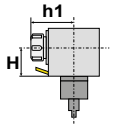
ER Portapinza / Collet Holder
PF Portafresa / Shell Mill Holder
↻ Uguale al Mandrino / Same as Spindle
↻ Opposto al Mandrino / Opposite as Spindle
Refrigerante Interno / Internal Coolant
Scarica il PDF / PDF Download

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 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

SCAN IT TO SEE
THE TECHNICAL SHEETS



RADIALE
RADIAL

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	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	6		
99.DS.A21	ER-16	Ø1÷10	-	80	73,3	15	1 : 2	16.000	6		
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	6		
99.DS.A69C	ER-25	Ø1÷16	-	60	84,9	30	1 : 1	6.000	6		
99.DS.A70	ER-25	Ø1÷16	• 80 bar	60	84,9	30	1 : 1	6.000	6		
99.DS.A71	ER-25	Ø1÷16	-	85	84,9	30	1 : 1	6.000	7		
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.A01**T**)

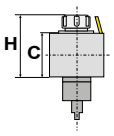
ER Portapinza / Collet Holder
PF Portafresa / Shell Mill Holder
Uguale al Mandrino / Same as Spindle
Opposto al Mandrino / Opposite as Spindle
Refrigerante Interno / Internal Coolant
Scarica il PDF / PDF Download

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

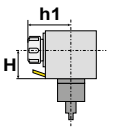
Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

SCAN IT TO SEE
THE TECHNICAL SHEETS



ASSIALE
AXIAL

Code	Output		Int Cool.	H	C	Nm	Ratio	Rpm	Kg	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	4		
99.DS.A137	ER-16	Ø1÷10	• 80 bar	66	32	40	1 : 1	6.000	3		



RADIALE
RADIAL

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	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	7		
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.A27**T**)

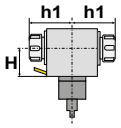
ER Portapinza / Collet Holder
PF Portafresa / Shell Mill Holder
Uguale al Mandrino / Same as Spindle
Opposto al Mandrino / Opposite as Spindle
Refrigerante Interno / Internal Coolant
Scarica il PDF / PDF Download

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

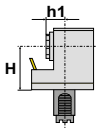
Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

SCAN IT TO SEE
THE TECHNICAL SHEETS



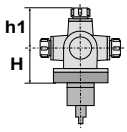
RADIALE DOPPIO
RADIAL DOUBLE

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



RADIALE ARRETRATO
RADIAL OFFSET

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.DS.A125	ER-32	Ø2÷20	-	100	53,4	40	1 : 1	6.000	12		↓



ORIENTABILE
ADJUSTABLE

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.DS.A64	ER-25	Ø1÷16	-	75	67,2	25	1 : 1	6.000	5		↓
99.DS.A65	ER-25	Ø1÷16	• 80 bar	75	67,2	25	1 : 1	6.000	5		↓

Disponibile versione con tenone maggiorato inserendo T dopo il codice. / Oversized tenon available - add "T" right after the code. (99.DS.A27**T**)

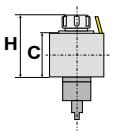
ER Portapinza / Collet Holder
PF Portafresa / Shell Mill Holder
Uguale al Mandrino / Same as Spindle
Opposto al Mandrino / Opposite as Spindle
Refrigerante Interno / Internal Coolant
Scarica il PDF / PDF Download

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

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

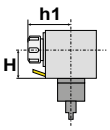
Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

SCAN IT TO SEE
THE TECHNICAL SHEETS



ASSIALE
AXIAL

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



RADIALE
RADIAL

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	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	15		
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	17		
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	17		
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	15		

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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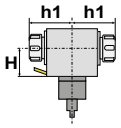
MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

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

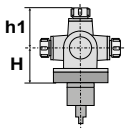
Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

SCAN IT TO SEE
THE TECHNICAL SHEETS



RADIALE DOPPIO
RADIAL DOUBLE

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



ORIENTABILE
ADJUSTABLE

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.DS.A47	ER-25	Ø1÷16	-	75	67,2	25	1 : 1	6.000	7		↓
99.DS.A48	ER-25	Ø1÷16	• 80 bar	75	67,2	25	1 : 1	6.000	8		↓

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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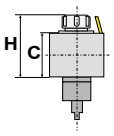
MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Baruffaldi | Dn Solutions | Doosan | Emco | Focus | Hwacheon | Hyundai WIA | Samsung Smart | Victor | Ycm

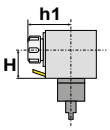
Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

SCAN IT TO SEE
THE TECHNICAL SHEETS



ASSIALE
AXIAL

Code	Output		Int Cool.	H	C	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.DS.A90	ER-50	Ø6÷36	-	119.2	46,5	150	1 : 1	3.200	10		
99.DS.A50	ER-50	Ø6÷36	• 80 bar	119.2	46,5	150	1 : 1	3.200	10		



RADIALE
RADIAL

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.DS.A77	ER-50	Ø6÷36	-	85	147,7	150	1 : 1	3.200	21		
99.DS.A77C	ER-50	Ø6÷36	-	85	147,7	150	1 : 1	3.200	21		
99.DS.A56	ER-50	Ø6÷36	• 80 bar	85	147,7	150	1 : 1	3.200	21		
99.DS.A56C	ER-50	Ø6÷36	• 80 bar	85	147,7	150	1 : 1	3.200	21		
99.DS.A89	ER-50	Ø6÷36	-	110	147,7	150	1 : 1	3.200	21		
99.DS.A89C	ER-50	Ø6÷36	-	110	147,7	150	1 : 1	3.200	24		
99.DS.A57	ER-50	Ø6÷36	• 80 bar	110	147,7	150	1 : 1	3.200	24		

ER Portapinza / Collet Holder
PF Portafresa / Shell Mill Holder
Uguale al Mandrino / Same as Spindle
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Refrigerante Interno / Internal Coolant
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DMG MORI

GERARDI

NLX / NZ / SL-ZL-DL

USCITA C. ISO26623
C. ISO26623 OUTPUT

Disponibile su richiesta
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DOTAZIONE STANDARD
STANDARD EQUIPMENT

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

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

CAMBI RAPIDI MODULARI
MODULAR QUICK CHANGE

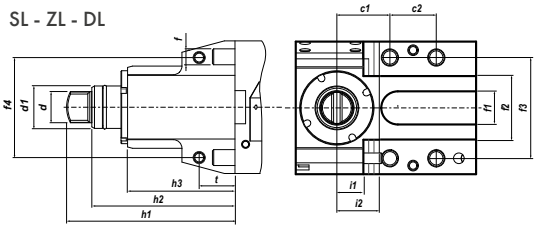
Facile e veloce sistema modulare per il cambio rapido delle diverse tipologie di portautensili con la sede per pinza ER (DIN6499).

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

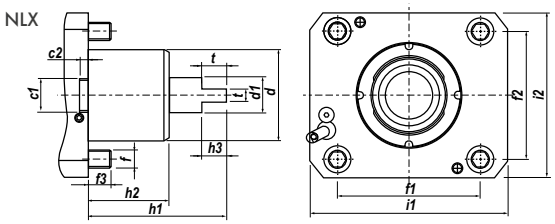
Il valore della coppia, espresso in Nm, è il massimo consentito. Per una maggiore durata, si consiglia di mantenerlo sotto tale soglia
The torque value, expressed in Nm, is the maximum allowed. For longer life, it is recommended to keep it below this limit

	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

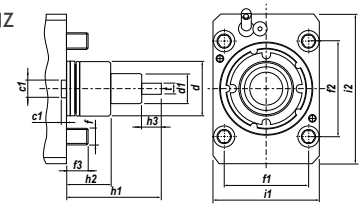
SL - ZL - DL



NLX



NZ

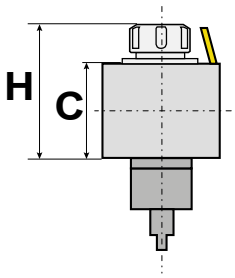


IN FASE D'ORDINE SPECIFICARE - IN CASE OF ORDER PLEASE SPECIFY:
costruttore, modello e numero posizioni in torretta - machine builder, model and turret position numbers

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

ASSIALE - AXIAL

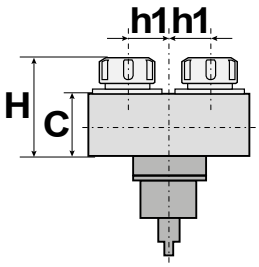


L'asse dell'utensile è in linea all'asse della torretta o del mandrino

The tool axis is aligned to the turret or spindle axis

DISPONIBILE ANCHE CON TENONE MAGGIORATO
ALSO AVAILABLE WITH BIGGER TENON

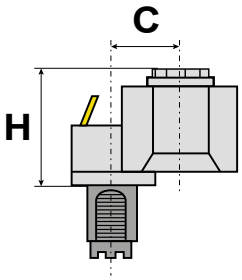
ASSIALE 2 USCITE - AXIAL 2 OUTPUTS



Un corpo unico ospita due uscite parallele orientate nella stessa direzione in linea con l'asse torretta

A single body contains two parallel outputs facing the same direction, aligned with the turret axis

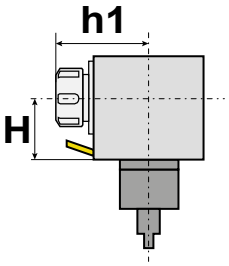
ASSIALE DISASSATO - OFFSET AXIS



L'asse dell'utensile è in linea ma traslato rispetto all'asse della torretta

The tool axis is aligned with, but offset from, the turret axis

RADIALE - RADIAL



L'asse dell'utensile è perpendicolare all'asse della torretta o del mandrino

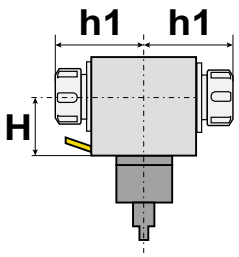
The tool axis is perpendicular to the turret or spindle axis

DISPONIBILE ANCHE CON TENONE MAGGIORATO
ALSO AVAILABLE WITH BIGGER TENON

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

RADIALE DOPPIO - DOUBLE RADIAL

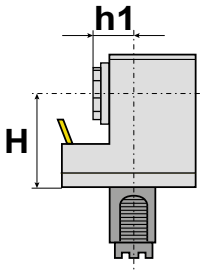


Il motorizzato ha due uscite situate sullo stesso asse radiale, ma rivolte in direzioni opposte

The driven tool has two outputs situated on the same radial axis, but facing in opposite directions

DISPONIBILE ANCHE CON TENONE MAGGIORATO
ALSO AVAILABLE WITH BIGGER TENON

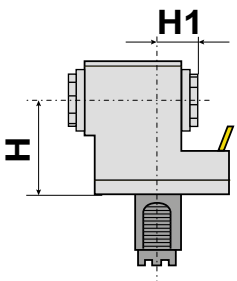
RADIALE ARRETRATO - RADIAL REAR OFFSET



L'asse dell'utensile è perpendicolare all'asse della torretta o del mandrino ma traslato verso il corpo del motorizzato

The tool axis is perpendicular to the axis of the turret or spindle but offset towards the motorised unit

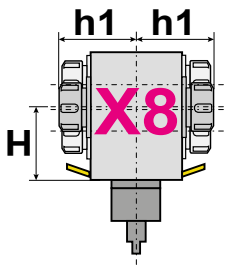
RADIALE DOPPIO ARRETRATO - RADIAL DOUBLE OFFSET



Le due uscite sono spostate all'indietro rispetto all'asse centrale del gambo

The two outputs are set back from the central axis of the stem

RADIALE 8 USCITE - 8 OUPUT RADIAL



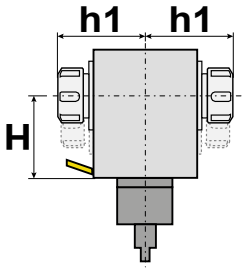
Il corpo del motorizzato è simmetrico rispetto all'asse della torretta e presenta 4 uscite sul lato sinistro e 4 uscite sul lato destro

The driven tool body is symmetrical in relation to the turret axis and has 4 outputs on the left side and 4 outputs on the right side

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

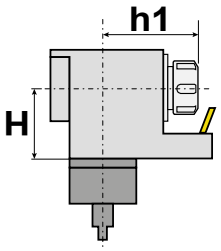
RADIALE DOPPIO 2 USCITE SU ASSE Y - DOUBLE RADIAL 2 OUTPUTS ON Y AXIS



Due coppie di uscite parallele tra loro e distanziate lungo l'asse Y della macchina

Two pairs of outputs arranged in parallel and spaced apart along the machine's Y-axis

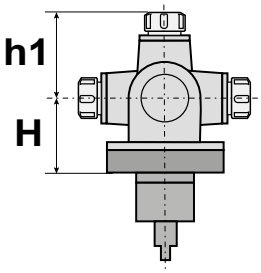
RADIALE ROVESCIATO - RADIAL UPSIDE DOWN



L'asse dell'utensile è perpendicolare all'asse della torretta o del mandrino ma con il tagliente rivolto in direzione opposta

The tool axis is perpendicular to the axis of the turret or spindle, but with the cutting edge facing in the opposite direction

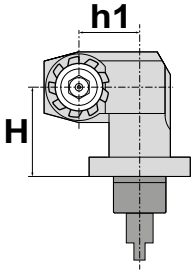
ORIENTABILE - ADJUSTABLE



Permettono di inclinare l'asse dell'utensile secondo un angolo specifico richiesto dalla lavorazione

They allow the tool axis to be tilted to a specific angle required for the machining operation

PORTA CREATORE - DRIVEN GEAR HOBBER



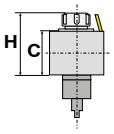
Dotato di una fresa specifica (creatore) su un albero rigido, montato su un supporto basculante

Equipped with a specific milling cutter on a rigid shaft, mounted on a pivoting support

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

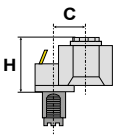
Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

SCAN IT TO SEE
THE TECHNICAL SHEETS



ASSIALE
AXIAL

Code	Output		Int Cool.	H	C	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.MS.A01	WELDON Ø20	Ø20	-	89	51	60	1 : 1	6.000	7		
99.MS.A02	WELDON Ø20	Ø20	• 80 bar	89	52	60	1 : 1	6.000	7		
99.MS.A03	WELDON Ø25	Ø25	-	126	52	60	1 : 1	6.000	6		
99.MS.A04	WELDON Ø25	Ø25	• 80 bar	126	84,5	60	1 : 1	6.000	7		
99.MS.A05	WELDON Ø20	Ø20	-	90	52	60	1 : 1	6.000	7		
99.MS.A06	WELDON Ø20	Ø20	• 80 bar	90	52	60	1 : 1	6.000	7		
99.MS.A59	ER-32	Ø2÷20	• 80 bar	95.5	51	60	1 : 1	10.000	6		
99.MS.A60	ER-32	Ø2÷20	-	95.5	51	60	1 : 1	10.000	6		
99.MS.A62	ER-40	Ø3÷30	-	92	51	60	1 : 1	10.000	6		
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		
99.MS.A80	ER-25	Ø1÷16	-	94	51	60	1 : 1	10.000	6		
99.MS.A81	ER-25	Ø1÷16	• 80 bar	94	51	60	1 : 1	10.000	6		
99.MS.A89	CAPTO C5	ISO26623	-	85.5	69	100	1 : 1	10.000	8.991		
99.MS.A91	CAPTO C5	ISO26623	• 80 bar	85.5	52	100	1 : 1	10.000	8.991		



ASSIALE DISASSATO
AXIAL OFFSET

Code	Output		Int Cool.	H	C	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.MS.A111	CAPTO C4	ISO26623	-	125		50	1 : 1	12.000	7.5		
99.MS.A61	ER-32	Ø2÷20	-	125	45	80	1 : 1	10.000	8		

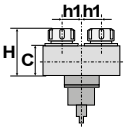
Disponibile solo per tornio NZ 1000 / Only for lathe NZ 1000

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Accuway | Dmg Mori | Takisawa

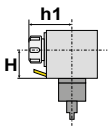
Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

SCAN IT TO SEE
THE TECHNICAL SHEETS



ASSIALE 2 USCITE
AXIAL 2 OUTPUTS

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



RADIALE
RADIAL

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
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.A09	WELDON Ø25	Ø25	-	90	101	60	1 : 1	6.000	11	↻	↓
99.MS.A10	WELDON Ø25	Ø25	• 80 bar	90	139	60	1 : 1	6.000	11	↻	↓
99.MS.A11	WELDON Ø 1”	Ø25,4	-	90	139	60	1 : 1	10.000	10	↻	↓
99.MS.A12	WELDON Ø 1”	Ø25,4	• 80 bar	90	139	60	1 : 1	10.000	10	↻	↓
99.MS.A13	WELDON Ø32	Ø32	-	90	137	60	1 : 1	10.000	11.374	↻	↓
99.MS.A14	WELDON Ø32	Ø32	• 80 bar	90	105	60	1 : 1	10.000	11.381	↻	↓
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.A72	ER-32	Ø2÷20	-	90	103,9	60	1 : 1	10.000	9	↻	↓
99.MS.A73	ER-32	Ø2÷20	• 80 bar	90	103,9	60	1 : 1	10.000	10	↻	↓
99.MS.A76	ER-40	Ø3÷30	-	90	107,5	60	1 : 1	10.000	9	↻	↓
99.MS.A77	ER-40	Ø3÷30	• 80 bar	90	113	60	1 : 1	10.000	9	↻	↓
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.A88	PF-16	Ø16	-	90	66,5	60	1 : 1	6.000	10.201	↻	↓
99.MS.A95	CAPTO C5	ISO26623	• 80 bar	90	95	100	1 : 1	10.000	5.2	↻	↓

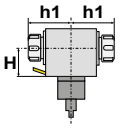
ER Portapinza Collet Holder | **PF** Portafresa Shell Mill Holder | ↻ Uguale al Mandrino Same as Spindle | ↻ Opposto al Mandrino Opposite as Spindle | Refrigerante Interno Internal Coolant | Scarica il PDF PDF Download

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Accuway | Dmg Mori | Takisawa

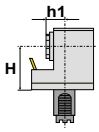
Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

SCAN IT TO SEE
THE TECHNICAL SHEETS



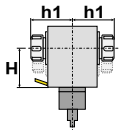
RADIALE DOPPIO
RADIAL DOUBLE

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



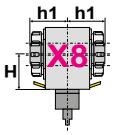
RADIALE ARRETRATO
RADIAL OFFSET

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.MS.A74	ER-32	Ø2÷20	-	100	54,5	60	1 : 1	10.000	11		↓
99.MS.A75	ER-32	Ø2÷20	• 80 bar	100	54,5	60	1 : 1	10.000	12		↓



RADIALE DOPPIO 2 USCITE SU ASSE Y
DOUBLE RADIAL 2 OUTPUTS ON Y AXIS

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.MS.A96	ER-25 / ER-25	Ø1÷16 / 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	Kg	Sense of Rotation	Tech. Draw
99.MS.A97	ER-20 / ER-20	Ø1÷13	-	90	101	20	1 : 1	6.000	19		↓

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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MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

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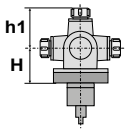
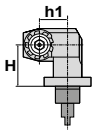
THE TECHNICAL SHEETS



ORIENTABILE
ADJUSTABLE

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.MS.A86	ER-25	Ø1÷16	-	78	35	25	1 : 1	10.000	5	↻	↓
99.MS.A87	ER-25	Ø1÷16	• 80 bar			25	1 : 1	10.000	8	↻	↓



PORTA CREATORE
DRIVEN GEAR HOBBER

Code	Output	Int Cool.	H	C	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.MS.A15	Ø27	-	102	1.418	110	2 : 1	3.000	18	↻	↓
99.MS.A99	Ø22	-	101.77	141,8	150	2 : 1	3.000		↻	↓

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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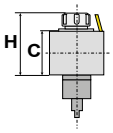
MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Accuway | Dmg Mori | Takisawa

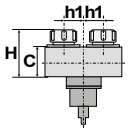
Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

SCAN IT TO SEE
THE TECHNICAL SHEETS



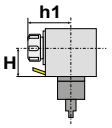
ASSIALE
AXIAL

Code	Output		Int Cool.	H	C	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.MS.A101	ER-25	Ø1÷16	-	84.3	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.A103	ER-32	Ø2÷20	-	89.2	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	Kg	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	Kg	Sense of Rotation	Tech. Draw
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	↻	↓
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	↻	↓

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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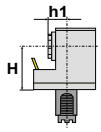
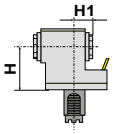
SCAN IT TO SEE
THE TECHNICAL SHEETS



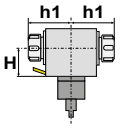
RADIALE ARRETRATO
RADIAL OFFSET

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	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	↻	↓



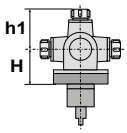
RADIALE DOPPIO ARRETRATO
RADIAL DOUBLE OFFSET

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



RADIALE DOPPIO
RADIAL DOUBLE

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



ORIENTABILE
ADJUSTABLE

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	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	↻	↓

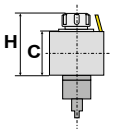
ER Portapinza Collet Holder | PF Portafresa Shell Mill Holder | ↻ Uguale al Mandrino Same as Spindle | ↻ Opposto al Mandrino Opposite as Spindle | Refrigerante Interno Internal Coolant | Scarica il PDF PDF Download

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Accuway | Dmg Mori | Takisawa

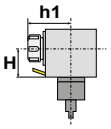
Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

SCAN IT TO SEE
THE TECHNICAL SHEETS



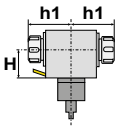
ASSIALE
AXIAL

Code	Output		Int Cool.	H	C	Nm	Ratio	Rpm	Kg	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	↻	↓



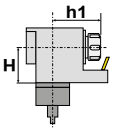
RADIALE
RADIAL

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	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	↻	↓



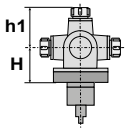
RADIALE DOPPIO
RADIAL DOUBLE

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.MS.A49	ER-32 / ER-32	Ø2÷20 / 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	Kg	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	Kg	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
↻ Uguale al Mandrino / Same as Spindle
↻ Opposto al Mandrino / Opposite as Spindle
Refrigerante Interno / Internal Coolant
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MODULAR QUICK CHANGE ADAPTORS 2.0

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

THE ULTIMATE MACHINING POWER

GOODWAY

GERARDI

G1 / G4

DOTAZIONE STANDARD
STANDARD EQUIPMENT

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

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

CAMBI RAPIDI MODULARI
MODULAR QUICK CHANGE

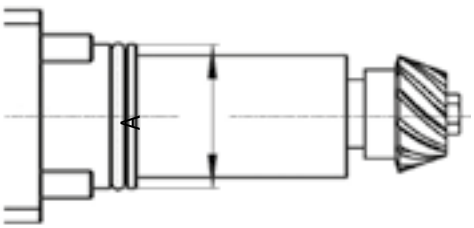
Facile e veloce sistema modulare per il cambio rapido delle diverse tipologie di portautensili con la sede per pinza ER (DIN6499).

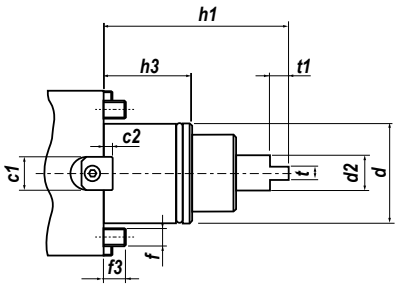
Modular toolholder system for the fitting of toolholders in a spindle unit with ER collets (DIN6499) outputs.

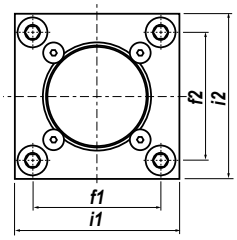
Il valore della coppia, espresso in Nm, è il massimo consentito. Per una maggiore durata, si consiglia di mantenerlo sotto tale soglia
The torque value, expressed in Nm, is the maximum allowed. For longer life, it is recommended to keep it below this limit

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







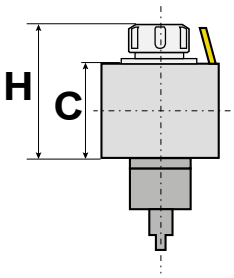
IN FASE D'ORDINE SPECIFICARE - IN CASE OF ORDER PLEASE SPECIFY:
costruttore, modello e numero posizioni in torretta - machine builder, model and turret position numbers

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Goodway

Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

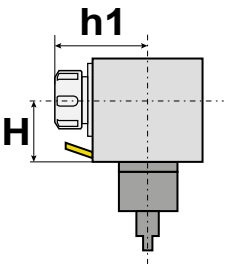
ASSIALE - AXIAL



L'asse dell'utensile è in linea all'asse della torretta o del mandrino

The tool axis is aligned to the turret or spindle axis

RADIALE - RADIAL

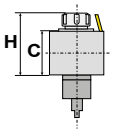


L'asse dell'utensile è perpendicolare all'asse della torretta o del mandrino

The tool axis is perpendicular to the turret or spindle axis

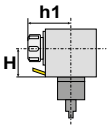
Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

SCAN IT TO SEE
THE TECHNICAL SHEETS



ASSIALE
AXIAL

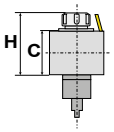
Code	Output		Int Cool.	H	C	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.GD.A01	ER-20	Ø1÷13	-	40	26,5	25	1 : 1	6.000	2		↓



RADIALE
RADIAL

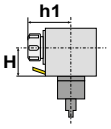
Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.GD.A02	ER-20	Ø1÷13	-	60	58	25	1 : 1	6.000	4		↓

SCAN IT TO SEE
THE TECHNICAL SHEETS



ASSIALE
AXIAL

Code	Output		Int Cool.	H	C	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.GD.A07	ER-40	Ø3÷30	-	92	51,3	70	1 : 1	6.000	6		↓
99.GD.A08	ER-40	Ø3÷30	• 70 bar	92	51,3	70	1 : 1	6.000	4		↓



RADIALE
RADIAL

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	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		↓

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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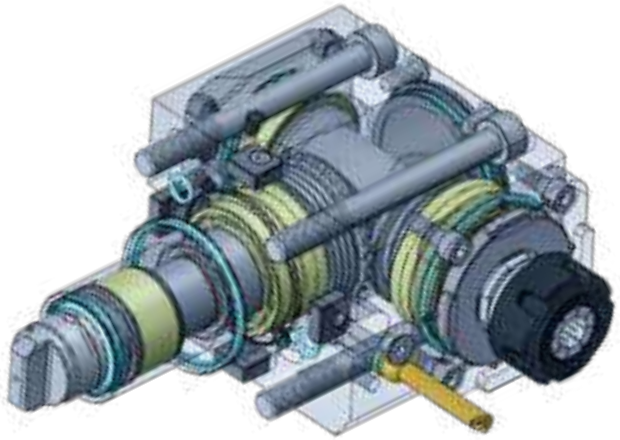
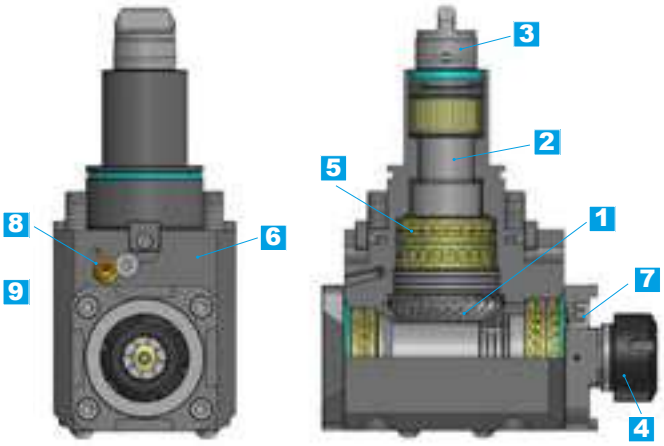
HIGH PERF.

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 ghiere 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 TRASMISSION
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

GERARDI

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 noozle Art.183 / noozle lock screws / driven tool locking screws

CAMBI RAPIDI MODULARI
MODULAR QUICK CHANGE

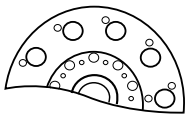
Facile e veloce sistema modulare per il cambio rapido delle diverse tipologie di portautensili con la sede per pinza ER (DIN6499).

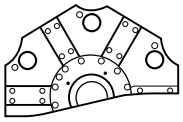
Modular toolholder system for the fitting of toolholders in a spindle unit with ER collets (DIN6499) outputs.

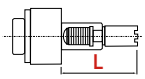
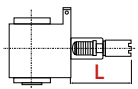
Il valore della coppia, espresso in Nm, è il massimo consentito. Per una maggiore durata, si consiglia di mantenerlo sotto tale soglia
The torque value, expressed in Nm, is the maximum allowed. For longer life, it is recommended to keep it below this limit

VDI

Modello di Torretta Type of Turret — **Standard** VDI 40 — **Ibrida -** Hybrid — **Haas**

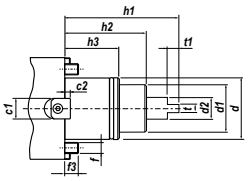


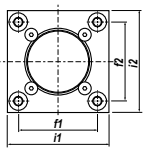


Modello di tornio Type of lathe		SL20/30	SL40 ST20/30	SL20/30 TL15/25	SL40	SL20/30	SL40
Presa di moto Coupling Lenght	L (mm)	104,85	117,55	117,55	130,25	117,55	130,25
Assiale / Axial 	Code	99.HA.590083	99.HA.590082	99.HA.590082	99.HA.596352	99.HA.590082	99.HA.596352
Radiale / Radial 	Code	99.HA.590085	99.HA.590084	99.HA.590084	99.HA.596353	99.HA.590084	99.HA.596353

BMT

DS30Y / ST20Y / ST25Y / ST30Y / ST35Y





c1	18	**f3**	15
c2	5	**h1**	112
d	65	**h2**	83
d1	45	**h3**	32
d2	18	**i1**	94
f	M12	**i2**	94
f1	70	**t**	10
f2	73	**t1**	14

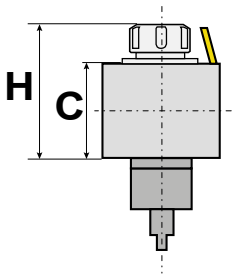
IN FASE D'ORDINE SPECIFICARE - IN CASE OF ORDER PLEASE SPECIFY:
costruttore, modello e numero posizioni in torretta - machine builder, model and turret position numbers

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Haas

Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

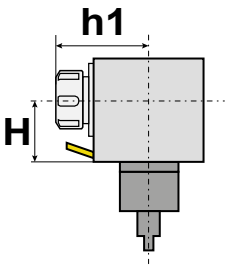
ASSIALE - AXIAL



L'asse dell'utensile è in linea all'asse della torretta o del mandrino

The tool axis is aligned to the turret or spindle axis

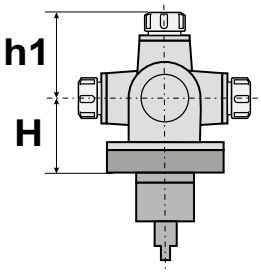
RADIALE - RADIAL



L'asse dell'utensile è perpendicolare all'asse della torretta o del mandrino

The tool axis is perpendicular to the turret or spindle axis

ORIENTABILE - ADJUSTABLE



Permettono di inclinare l'asse dell'utensile secondo un angolo specifico richiesto dalla lavorazione

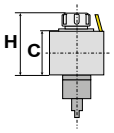
They allow the tool axis to be tilted to a specific angle required for the machining operation

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Haas

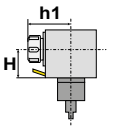
Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

SCAN IT TO SEE
THE TECHNICAL SHEETS



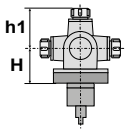
ASSIALE
AXIAL

Code	Output		Int Cool.	L	H	C	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.HA.590082	ER-32	Ø2÷20	-	117.55	75	57	30	1 : 1	6.000	3		
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	3		
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	3		
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	Kg	Sense of Rotation	Tech. Draw
99.HA.590084	ER-32	Ø2÷20	-	117.55	75	86,6	30	1 : 1	6.000	7		
99.HA.590084B	ER-32	Ø2÷20	• 25 bar		75	86,6	30	1 : 1	6.000	7		
99.HA.590085	ER-32	Ø2÷20	-	104.85	75	86,6	63	1 : 1	6.000			
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			
99.HA.596353B	ER-32	Ø2÷20	• 80 bar		75	86,6	63	1 : 1	6.000			



ORIENTABILE
ADJUSTABLE

Code	Output		Int Cool.	L	H	h1	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.HA.00U1	ER-25	Ø1÷16	-	104.85	81	69,3	25	1 : 1	6.000	5		
99.HA.00U2	ER-25	Ø1÷16	-	117.55	81	69,3	25	1 : 1	6.000	6		
99.HA.00U2B	ER-25	Ø1÷16	• 25 bar		83	69,3	25	1 : 1	6.000	10		

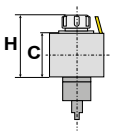
ER Portapinza / Collet Holder
PF Portafresa / Shell Mill Holder
Uguale al Mandrino / Same as Spindle
Opposto al Mandrino / Opposite as Spindle
Refrigerante Interno / Internal Coolant
Scarica il PDF / PDF Download

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Haas

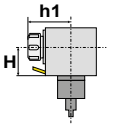
Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

SCAN IT TO SEE
THE TECHNICAL SHEETS



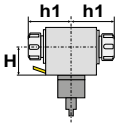
ASSIALE
AXIAL

Code	Output		Int Cool.	H	C	Nm	Ratio	Rpm	Kg	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	4		
99.DS.A137	ER-16	Ø1÷10	• 80 bar	66	32	40	1 : 1	6.000	3		



RADIALE
RADIAL

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	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	7		
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	Kg	Sense of Rotation	Tech. Draw
99.DS.A31	ER-32 / ER-32	Ø2÷20 / Ø2÷20	-	72	93,6	70	1 : 1	6.000	10		
99.DS.A78	ER-32 / ER-32	Ø2÷20 / Ø2÷20	-	100	93,6	70	1 : 1	6.000	10		

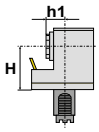
ER Portapinza / Collet Holder
PF Portafresa / Shell Mill Holder
Uguale al Mandrino / Same as Spindle
Opposto al Mandrino / Opposite as Spindle
Refrigerante Interno / Internal Coolant
Scarica il PDF / PDF Download

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Haas

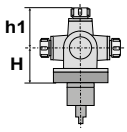
Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

SCAN IT TO SEE
THE TECHNICAL SHEETS



RADIALE ARRETRATO
RADIAL OFFSET

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.DS.A125	ER-32	Ø2÷20	-	100	53,4	40	1 : 1	6.000	12	↻	↓

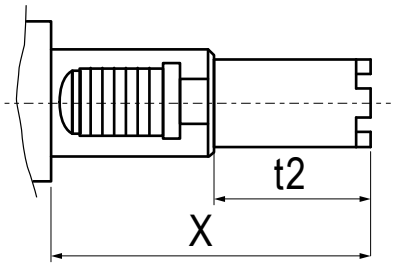


ORIENTABILE
ADJUSTABLE

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.DS.A64	ER-25	Ø1÷16	-	75	67,2	25	1 : 1	6.000	5	↻	↓
99.DS.A65	ER-25	Ø1÷16	• 80 bar	75	67,2	25	1 : 1	6.000	5	↻	↓

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
Scarica il PDF / PDF Download

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**

Mazak

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 noozle Art.183 / noozle lock screws / driven tool locking screws

CAMBI RAPIDI MODULARI
MODULAR QUICK CHANGE

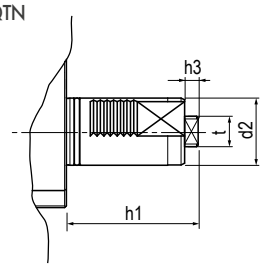
Facile e veloce sistema modulare per il cambio rapido delle diverse tipologie di portautensili con la sede per pinza ER (DIN6499).

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

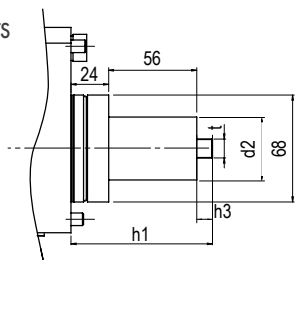
Il valore della coppia, espresso in Nm, è il massimo consentito. Per una maggiore durata, si consiglia di mantenerlo sotto tale soglia
The torque value, expressed in Nm, is the maximum allowed. For longer life, it is recommended to keep it below this limit

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

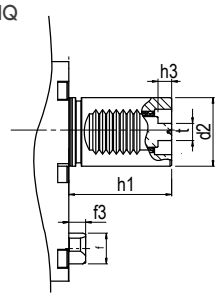
QTN



QTS



HQ



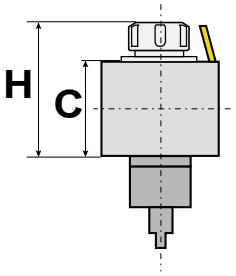
IN FASE D'ORDINE SPECIFICARE - IN CASE OF ORDER PLEASE SPECIFY:
costruttore, modello e numero posizioni in torretta - machine builder, model and turret position numbers

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Mazak

Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

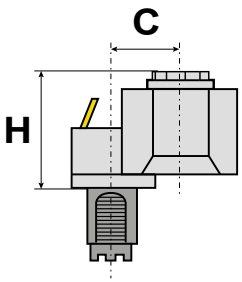
ASSIALE - AXIAL



L'asse dell'utensile è in linea all'asse della torretta o del mandrino

The tool axis is aligned to the turret or spindle axis

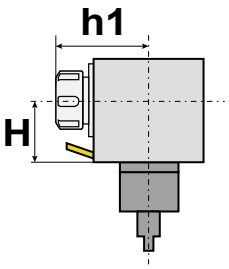
ASSIALE DISASSATO - OFFSET AXIS



L'asse dell'utensile è in linea ma traslato rispetto all'asse della torretta

The tool axis is aligned with, but offset from, the turret axis

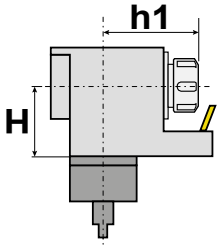
RADIALE - RADIAL



L'asse dell'utensile è perpendicolare all'asse della torretta o del mandrino

The tool axis is perpendicular to the turret or spindle axis

RADIALE ROVESCIATO - RADIAL UPSIDE DOWN



L'asse dell'utensile è perpendicolare all'asse della torretta o del mandrino ma con il tagliente rivolto in direzione opposta

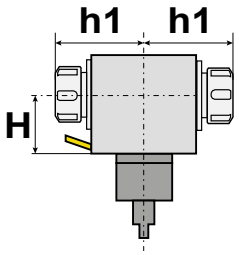
The tool axis is perpendicular to the axis of the turret or spindle, but with the cutting edge facing in the opposite direction

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Mazak

Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

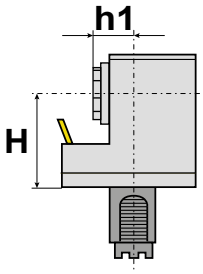
RADIALE DOPPIO - DOUBLE RADIAL



Il motorizzato ha due uscite situate sullo stesso asse radiale, ma rivolte in direzioni opposte

The driven tool has two outputs situated on the same radial axis, but facing in opposite directions

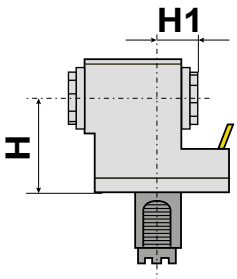
RADIALE ARRETRATO - RADIAL REAR OFFSET



L'asse dell'utensile è perpendicolare all'asse della torretta o del mandrino ma traslato verso il corpo del motorizzato

The tool axis is perpendicular to the axis of the turret or spindle but offset towards the motorised unit

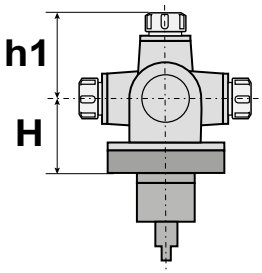
RADIALE DOPPIO ARRETRATO - RADIAL DOUBLE OFFSET



Le due uscite sono spostate all'indietro rispetto all'asse centrale del gambo

The two outputs are set back from the central axis of the stem

ORIENTABILE - ADJUSTABLE



Permettono di inclinare l'asse dell'utensile secondo un angolo specifico richiesto dalla lavorazione

They allow the tool axis to be tilted to a specific angle required for the machining operation

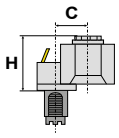
QTN 1

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Mazak

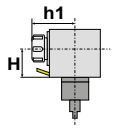
Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

SCAN IT TO SEE
THE TECHNICAL SHEETS



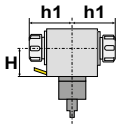
ASSIALE DISASSATO
AXIAL OFFSET

Code	Output		Int Cool.	H	C	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.MZ.A40	ER-25	Ø1÷16	-	120	107	30	1 : 1	6.000	20		↓
99.MZ.A41	ER-25	Ø1÷16	• 80 bar	120	107	30	1 : 1	6.000	6		↓



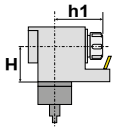
RADIALE
RADIAL

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



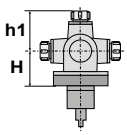
RADIALE DOPPIO
RADIAL DOUBLE

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.MZ.A55	ER-25 / ER-25	Ø1÷16 / Ø1÷16	-	100	93,8	30	1 : 1	6.000	7		↓



RADIALE ROVESCIATO
RADIAL UPSIDE DOWN

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.MZ.A48	ER-25	Ø1÷16	-	100	93,8	30	1 : 1	6.000	20		↓
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	Kg	Sense of Rotation	Tech. Draw
99.MZ.A56	ER-20	Ø1÷13	-	81	67,5	25	1 : 1	6.000	5		↓

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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MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Mazak

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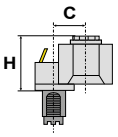
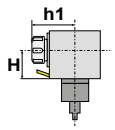
THE TECHNICAL SHEETS



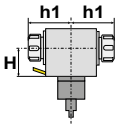
ASSIALE DISASSATO
AXIAL OFFSET

Code	Output		Int Cool.	H	C	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.MZ.A58	ER-32	Ø2÷20	-	120	50	30	1 : 1	6.000	6	↻	↓
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	7	↻	↓



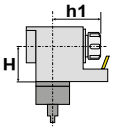
RADIALE
RADIAL

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



RADIALE ROVESCIATO
RADIAL UPSIDE DOWN

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	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		↻	↓

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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MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Mazak

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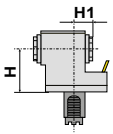
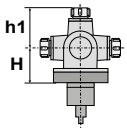
THE TECHNICAL SHEETS



RADIALE DOPPIO ARRETRATO
RADIAL DOUBLE OFFSET

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.MZ.A70	ER-32 / ER-32	Ø2÷20 / Ø2÷20	-	130	93,8	30	1 : 1	6.000	10	↻ ↻	↓



ORIENTABILE
ADJUSTABLE

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	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		↻	↓

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
Scarica il PDF / PDF Download

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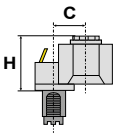
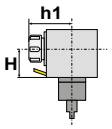
SCAN IT TO SEE
THE TECHNICAL SHEETS



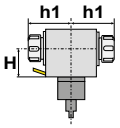
ASSIALE DISASSATO
AXIAL OFFSET

Code	Output		Int Cool.	H	C	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.MZ.A71	ER-40	Ø3÷30	-	145	75	70	1 : 1	4.000	12	↻	↓
99.MZ.A72	ER-40	Ø3÷30	• 80 bar	145	75	70	1 : 1	4.000	13	↻	↓
99.MZ.A76	ISO-40		-	92.5	75	70	1 : 1	4.000	12	↻	↓
99.MZ.A79	ISO-40		• 80 bar	125	75	70	1 : 1	4.000	12	↻	↓



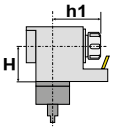
RADIALE
RADIAL

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	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	7	↻	↓
99.MZ.A78	ISO-40		• 80 bar	160	73	70	1 : 1	4.000	17	↻	↓



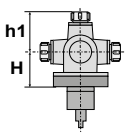
RADIALE DOPPIO
RADIAL DOUBLE

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



RADIALE ROVESCIATO
RADIAL UPSIDE DOWN

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	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	Kg	Sense of Rotation	Tech. Draw
99.MZ.A80	ER-32	Ø2÷20	-	85	67,5	20	1 : 1	6.000	11	↻	↓

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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MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Mazak

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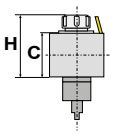
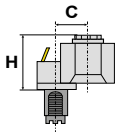
THE TECHNICAL SHEETS



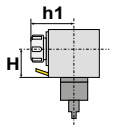
ASSIALE
AXIAL

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



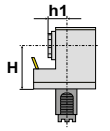
ASSIALE DISASSATO
AXIAL OFFSET

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



RADIALE
RADIAL

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



RADIALE ARRETRATO
RADIAL OFFSET

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.MZ.A17	ER-32	Ø2÷20	-	85	38,4	60	1 : 1	6.000	11	↻	↓
99.MZ.A18	ER-32	Ø2÷20	• 80 bar	85	38,4	60	1 : 1	6.000	11	↻	↓

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 | Scarica il PDF PDF Download

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Mazak

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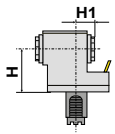
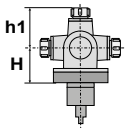


RADIALE DOPPIO ARRETRATO
RADIAL DOUBLE OFFSET

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



ORIENTABILE
ADJUSTABLE

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.MZ.A14	ER-25	Ø1÷16	-	80	67,2	30	1 : 1	6.000	6		↓
99.MZ.A15	ER-25	Ø1÷16	• 80 bar	80	67,2	30	1 : 1	6.000	6		↓

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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COMPATIBLE LATHE TYPES

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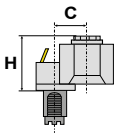
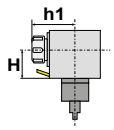


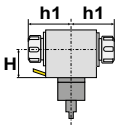
ASSIALE DISASSATO
AXIAL OFFSET

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



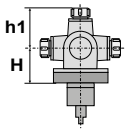
RADIALE
RADIAL

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.MZ.A36	ER-25	Ø1÷16	-	115	87,5	50	1 : 1	6.000			↓
99.MZ.A37	ER-25	Ø1÷16	• 80 bar	115	87,5	30	1 : 1	6.000	9		↓



RADIALE DOPPIO
RADIAL DOUBLE

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



ORIENTABILE
ADJUSTABLE

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

5

Miyano

GERARDI

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 noozle Art.183 / noozle lock screws / driven tool locking screws

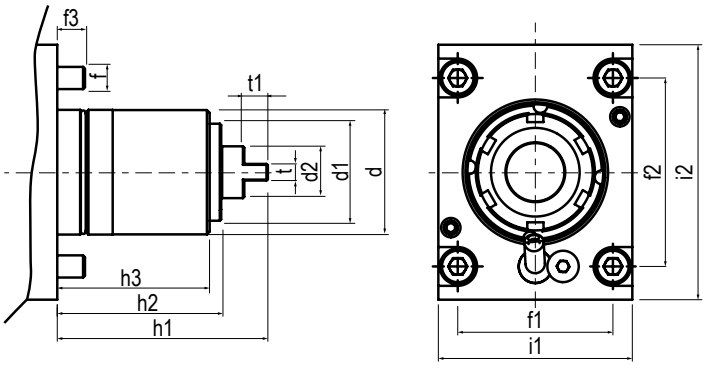
CAMBI RAPIDI MODULARI
MODULAR QUICK CHANGE

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



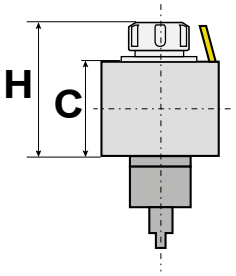
IN FASE D'ORDINE SPECIFICARE - IN CASE OF ORDER PLEASE SPECIFY:
costruttore, modello e numero posizioni in torretta - machine builder, model and turret position numbers

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Miyano

Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

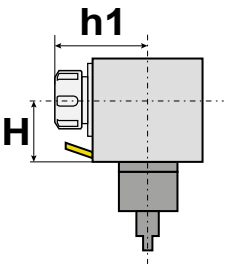
ASSIALE - AXIAL



L'asse dell'utensile è in linea all'asse della torretta o del mandrino

The tool axis is aligned to the turret or spindle axis

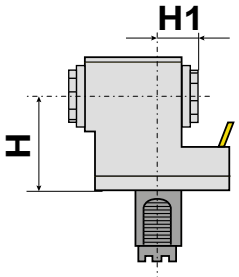
RADIALE - RADIAL



L'asse dell'utensile è perpendicolare all'asse della torretta o del mandrino

The tool axis is perpendicular to the turret or spindle axis

RADIALE DOPPIO ARRETRATO - RADIAL DOUBLE OFFSET



Le due uscite sono spostate all'indietro rispetto all'asse centrale del gambo

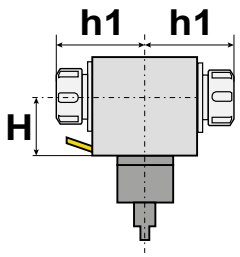
The two outputs are set back from the central axis of the stem

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Miyano

Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

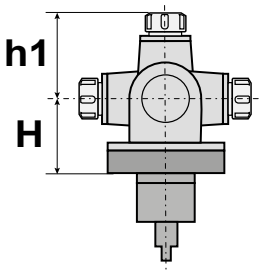
RADIALE DOPPIO - DOUBLE RADIAL



Il motorizzato ha due uscite situate sullo stesso asse radiale, ma rivolte in direzioni opposte

The driven tool has two outputs situated on the same radial axis, but facing in opposite directions

ORIENTABILE - ADJUSTABLE



Permettono di inclinare l'asse dell'utensile secondo un angolo specifico richiesto dalla lavorazione

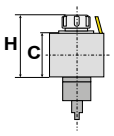
They allow the tool axis to be tilted to a specific angle required for the machining operation

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Miyano

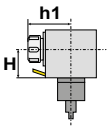
Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

SCAN IT TO SEE
THE TECHNICAL SHEETS



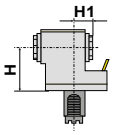
ASSIALE
AXIAL

Code	Output		Int Cool.	H	C	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.MY.A21	ER-25	Ø1÷16	-	73.7	41	20	1 : 1	6.000			
99.MY.A22	ER-25	Ø1÷16	• 70 bar	73.7	41	20	1 : 1	6.000			
99.MY.A41	ER-20	Ø1÷13	-	71.2	41	20	1 : 1	6.000			
99.MY.A42	ER-20	Ø1÷13	• 70 bar	71.2	41	20	1 : 1	6.000			
99.MY.A35	ER-16	Ø1÷10	-	56.3	41	6	1 : 1	6.000			
99.MY.A40	ER-16	Ø1÷10	• 10 bar	56.3	41	25	1 : 1	6.000	2		



RADIALE
RADIAL

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



RADIALE DOPPIO ARRETRATO
RADIAL DOUBLE OFFSET

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.MY.A38	ER-16	Ø1÷10	-	59	39	16	1 : 1	6.000	4		
99.MY.A39	ER-20	Ø1÷13	-	59	39	16	1 : 1	6.000	2		

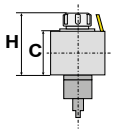
ER Portapinza / Collet Holder
PF Portafresa / Shell Mill Holder
Uguale al Mandrino / Same as Spindle
Opposto al Mandrino / Opposite as Spindle
Refrigerante Interno / Internal Coolant
Scarica il PDF / PDF Download

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Accuway | Goodway | Miyano | Smart | Star

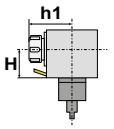
Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

SCAN IT TO SEE
THE TECHNICAL SHEETS



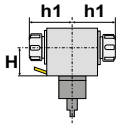
ASSIALE
AXIAL

Code	Output		Int Cool.	H	C	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.MY.A02	ER-25	Ø1÷16	-	57.6	25	35	1 : 1	6.000			
99.MY.A03	ER-25	Ø1÷16	• 80 bar	57.6	25	35	1 : 1	6.000			
99.MY.A15	ER-32	Ø2÷20	-	64.3	25	35	1 : 1	6.000	2		
99.MY.A16	ER-32	Ø2÷20	• 80 bar	64.3	25	35	1 : 1	6.000			
99.MY.A01	ER-16	Ø1÷10	-	94.5	68	6	1 : 4	24.000	5		
99.MY.A14	PF-16	Ø16	-	68.5	25	35	1 : 1	6.000			



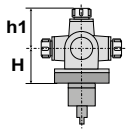
RADIALE
RADIAL

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.MY.A05	ER-25	Ø1÷16	-	65	84,6	35	1 : 1	6.000			
99.MY.A06	ER-25	Ø1÷16	• 80 bar	65	84,6	35	1 : 1	6.000			
99.MY.A04	ER-16	Ø1÷10	-	65	69,7	6	1 : 4	24.000	5		
99.MY.A17	PF-16	Ø16	-	65	95,6	35	1 : 1	6.000			



RADIALE DOPPIO
RADIAL DOUBLE

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



ORIENTABILE
ADJUSTABLE

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	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		

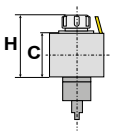
ER Portapinza / Collet Holder
PF Portafresa / Shell Mill Holder
Uguale al Mandrino / Same as Spindle
Opposto al Mandrino / Opposite as Spindle
Refrigerante Interno / Internal Coolant
Scarica il PDF / PDF Download

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Miyano

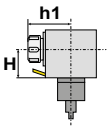
Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

SCAN IT TO SEE
THE TECHNICAL SHEETS



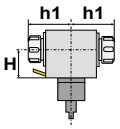
ASSIALE
AXIAL

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



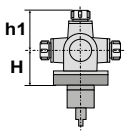
RADIALE
RADIAL

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.MY.A28	ER-25	Ø1÷16	-	75	91	60	1 : 1	6.000		↻	↓
99.MY.A29	ER-25	Ø1÷16	• 80 bar	75	91	60	1 : 1	6.000		↻	↓
99.MY.A11	ER-32	Ø2÷20	-	75	94	60	1 : 1	6.000		↻	↓
99.MY.A12	ER-32	Ø2÷20	• 80 bar	75	94	50	1 : 1	6.000	8	↻	↓



RADIALE DOPPIO
RADIAL DOUBLE

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



ORIENTABILE
ADJUSTABLE

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	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
↻ Uguale al Mandrino / Same as Spindle
↺ Opposto al Mandrino / Opposite as Spindle
Refrigerante Interno / Internal Coolant
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Nakamura-Tome

GERARDI

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 noozle / noozle lock screws / Driven tool locking screws / O-ring

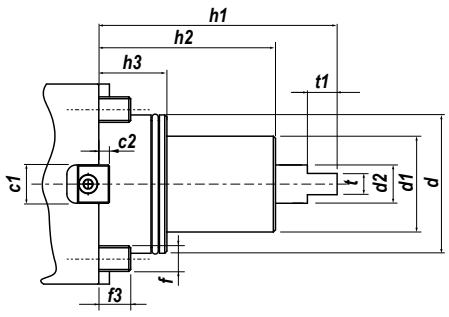
CAMBI RAPIDI MODULARI
MODULAR QUICK CHANGE

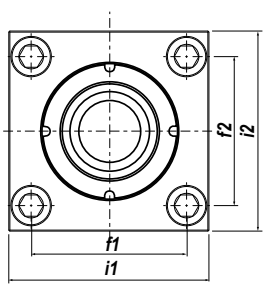
Facile e veloce sistema modulare per il cambio rapido delle diverse tipologie di portautensili con la sede per pinza ER (DIN6499).

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	c1	c2	d	d1	d2	f	f1	f2	f3	h1	h2	h3	i1	i2	t	t1
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	-





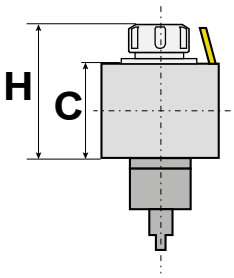
IN FASE D'ORDINE SPECIFICARE - IN CASE OF ORDER PLEASE SPECIFY:
costruttore, modello e numero posizioni in torretta - machine builder, model and turret position numbers

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Goodway | Muratec | Nakamura

Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

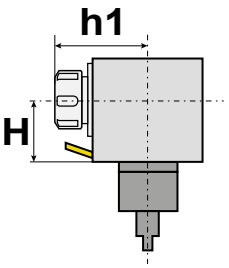
ASSIALE - AXIAL



L'asse dell'utensile è in linea all'asse della torretta o del mandrino

The tool axis is aligned to the turret or spindle axis

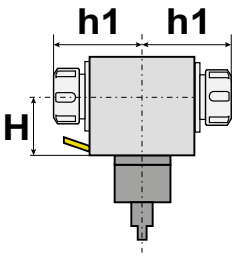
RADIALE - RADIAL



L'asse dell'utensile è perpendicolare all'asse della torretta o del mandrino

The tool axis is perpendicular to the turret or spindle axis

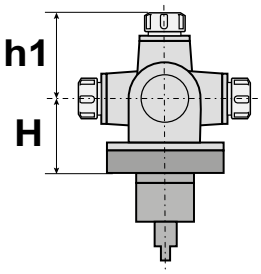
RADIALE DOPPIO - DOUBLE RADIAL



Il motorizzato ha due uscite situate sullo stesso asse radiale, ma rivolte in direzioni opposte

The driven tool has two outputs situated on the same radial axis, but facing in opposite directions

ORIENTABILE - ADJUSTABLE



Permettono di inclinare l'asse dell'utensile secondo un angolo specifico richiesto dalla lavorazione

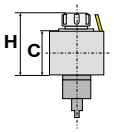
They allow the tool axis to be tilted to a specific angle required for the machining operation

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Goodway | Muratec | Nakamura

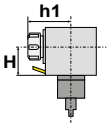
Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

SCAN IT TO SEE
THE TECHNICAL SHEETS



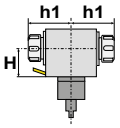
ASSIALE
AXIAL

Code	Output		Int Cool.	H	C	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.NK.A40	ER-25	Ø1÷16	-	57.2	25	40	1 : 1	6.000	2		
99.NK.A43	ER-25	Ø1÷16	• 70 bar	57.2	25	40	1 : 1	6.000			



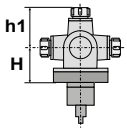
RADIALE
RADIAL

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.NK.A50	ER-25	Ø1÷16	-	60	84,9	40	1 : 1	6.000	4		
99.NK.A53	ER-25	Ø1÷16	• 70 bar	60	84,9	40	1 : 1	6.000			
99.NK.A30	ER-25	Ø1÷16	-	75	84,9	40	1 : 1	6.000	5		
99.NK.A33	ER-25	Ø1÷16	• 70 bar	75	84,9	40	1 : 1	6.000			
99.NK.A36	ER-16	Ø1÷10	-	60	69,7	6	1 : 4	6.000			



RADIALE DOPPIO
RADIAL DOUBLE

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



ORIENTABILE
ADJUSTABLE

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.NK.A59	ER-16	Ø1÷10	-	68.5	56,5	10	1 : 1	6.000	3		
99.NK.A69	ER-16	Ø1÷10	• 70 bar	68.5	56,5	10	1 : 1	6.000	3		

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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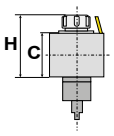
MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Accuway | Eurotech | Muratech | Nakamura

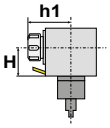
Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

SCAN IT TO SEE
THE TECHNICAL SHEETS



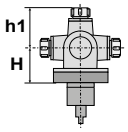
ASSIALE
AXIAL

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



RADIALE
RADIAL

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



ORIENTABILE
ADJUSTABLE

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.NK.A22	ER-20	Ø1÷13	-	71	52,5	15	1 : 1	6.000	4		
99.NK.A32	ER-20	Ø1÷13	• 70 bar	71	52,5	15	1 : 1	6.000	3		

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
Scarica il PDF / PDF Download

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Accuway | Eurotech | Muratech | Nakamura

Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

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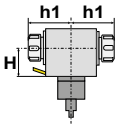

RADIALE DOPPIO
RADIAL DOUBLE

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.NK.A09	ER-25	Ø1÷16	-	55	86,2	63	1 : 1	6.000			↓
99.NK.A71	ER-32 / ER-32	Ø2÷20 / Ø2÷20	-	55	93,7	63	1 : 1	6.000			↓
99.NK.A10	ER-25	Ø1÷16	-	65	86,2	63	1 : 1	6.000			↓
99.NK.A81	ER-32 / ER-32	Ø2÷20 / Ø2÷20	-	65	93,7	63	1 : 1	6.000	6		↓
99.NK.A11	ER-25	Ø1÷16	-	75	86,2	63	1 : 1	6.000			↓
99.NK.A91	ER-32 / ER-32	Ø2÷20 / Ø2÷20	-	75	93,7	63	1 : 1	6.000	6		↓

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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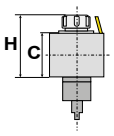
MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Averex | Nakamura

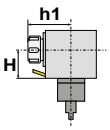
Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

SCAN IT TO SEE
THE TECHNICAL SHEETS



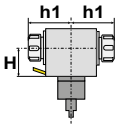
ASSIALE
AXIAL

Code	Output		Int Cool.	H	C	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.NK.A51	ER-32	Ø2÷20	-	77.9	38,5	63	1 : 1	6.000	4		
99.NK.A52	ER-32	Ø2÷20	• 70 bar	77.9	38,5	63	1 : 1	6.000			



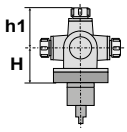
RADIALE
RADIAL

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.NK.A58	ER-32	Ø2÷20	-	65	93,9	63	1 : 1	6.000	7		
99.NK.A62	ER-32	Ø2÷20	• 70 bar	65	93,9	63	1 : 1	6.000			
99.NK.A12	ER-32	Ø2÷20	-	80	93,9	63	1 : 1	6.000	9		
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	Kg	Sense of Rotation	Tech. Draw
99.NK.A78	ER-32 / ER-32	Ø2÷20 / Ø2÷20	-	65	93,9	63	1 : 1	6.000	9		



ORIENTABILE
ADJUSTABLE

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.NK.A82	ER-25	Ø1÷16	-	75	67,2	15	1 : 1	6.000	5		
99.NK.A19	ER-25	Ø1÷16	• 70 bar	80	67,2	15	1 : 1	6.000	5		

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
Scarica il PDF / PDF Download

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 noozle / noozle 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).

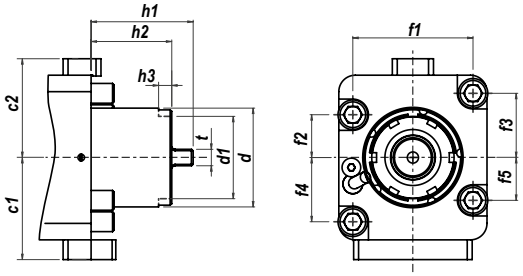
Modular toolholder system for the fitting of toolholders in a spindle unit with ER collets (DIN6499) outputs.

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

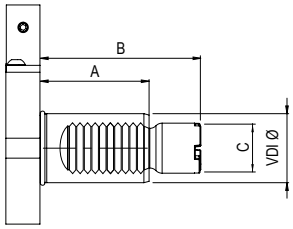
Type	c1	c2	d	d1	f1	f2	f3	f4	f5	h1	h2	h3	t
BMT55	-	-	Ø55	-	65	40	40	40	40	102	64	-	10
BMT60	62	60	Ø60	50	73	26	39	39	26	62	49	8	10

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

BMT



VDI



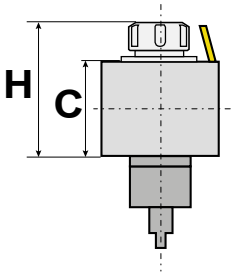
IN FASE D'ORDINE SPECIFICARE - IN CASE OF ORDER PLEASE SPECIFY:
costruttore, modello e numero posizioni in torretta - machine builder, model and turret position numbers

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Okuma

Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

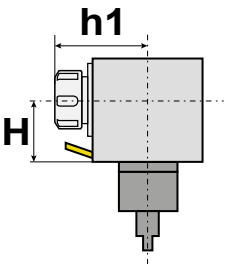
ASSIALE - AXIAL



L'asse dell'utensile è in linea all'asse della torretta o del mandrino

The tool axis is aligned to the turret or spindle axis

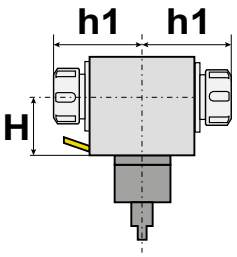
RADIALE - RADIAL



L'asse dell'utensile è perpendicolare all'asse della torretta o del mandrino

The tool axis is perpendicular to the turret or spindle axis

RADIALE DOPPIO - DOUBLE RADIAL



Il motorizzato ha due uscite situate sullo stesso asse radiale, ma rivolte in direzioni opposte

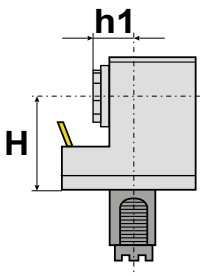
The driven tool has two outputs situated on the same radial axis, but facing in opposite directions

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Okuma

Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

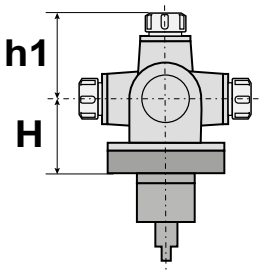
RADIALE ARRETRATO - RADIAL REAR OFFSET



L'asse dell'utensile è perpendicolare all'asse della torretta o del mandrino ma traslato verso il corpo del motorizzato

The tool axis is perpendicular to the axis of the turret or spindle but offset towards the motorised unit

ORIENTABILE - ADJUSTABLE



Permettono di inclinare l'asse dell'utensile secondo un angolo specifico richiesto dalla lavorazione

They allow the tool axis to be tilted to a specific angle required for the machining operation

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Okuma

Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

SCAN IT TO SEE
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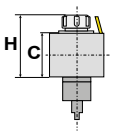
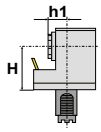


ASSIALE
AXIAL

Code	Output		Int Cool.	H	C	Nm	Ratio	Rpm	Kg	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	Kg	Sense of Rotation	Tech. Draw
99.OK.A36	ER-25	Ø1÷16	-	70	41	16	1 : 1	8.000	4	↻	↓
99.OK.A42	ER-25	Ø1÷16	• 80 bar	70	41	16	1 : 1	8.000		↻	↓

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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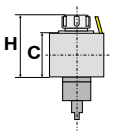
MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Okuma

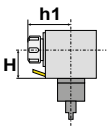
Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

SCAN IT TO SEE
THE TECHNICAL SHEETS



ASSIALE
AXIAL

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



RADIALE
RADIAL

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

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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MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Okuma

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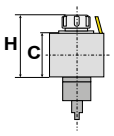
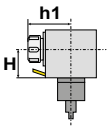


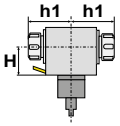
ASSIALE
AXIAL

Code	Output		Int Cool.	H	C	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.OK.A01	ER-25	Ø1÷16	-	71.7	38	40	1 : 1	6.000	4		
99.OK.A02	ER-25	Ø1÷16	• 70 bar	71.7	38	40	1 : 1	8.000			
99.OK.A14	ER-32	Ø2÷20	-	78	38	70	1 : 1	6.000			
99.OK.A15	ER-32	Ø2÷20	• 70 bar	78	38	40	1 : 1	6.000	4		
99.OK.A16	PF-22	Ø22	-	96	38	40	1 : 1	6.000	4		
99.OK.A17	PF-27	Ø27	• 70 bar	97	38	40	1 : 1	6.000	4		



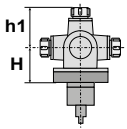
RADIALE
RADIAL

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



ORIENTABILE
ADJUSTABLE

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	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
Uguale al Mandrino / Same as Spindle
Opposto al Mandrino / Opposite as Spindle
Refrigerante Interno / Internal Coolant
Scarica il PDF / PDF Download

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Okuma

Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

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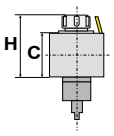
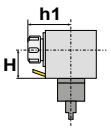
THE TECHNICAL SHEETS



ASSIALE
AXIAL

Code	Output		Int Cool.	H	C	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.OK.A80	ER-32	Ø2÷20	-	79	38,5	60	1 : 1	6.000	4	↻	↓
99.OK.A81	ER-32	Ø2÷20	• 70 bar	79	38,5	60	1 : 1	6.000		↻	↓



RADIALE
RADIAL

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.OK.A82	ER-32	Ø2÷20	-	70	94	60	1 : 1	6.000	8	↻	↓
99.OK.A83	ER-32	Ø2÷20	• 70 bar	70	94	60	1 : 1	6.000	8	↻	↓

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
Scarica il PDF / PDF Download

MODULAR QUICK CHANGE ADAPTORS 2.0

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

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 noozle / noozle 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).

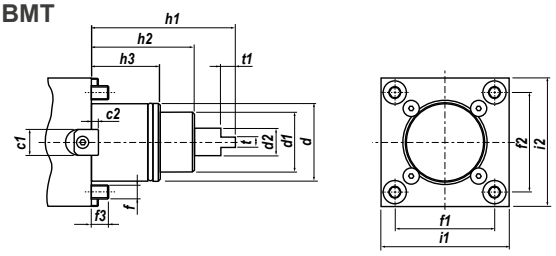
Modular toolholder system for the fitting of toolholders in a spindle unit with ER collets (DIN6499) outputs.

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

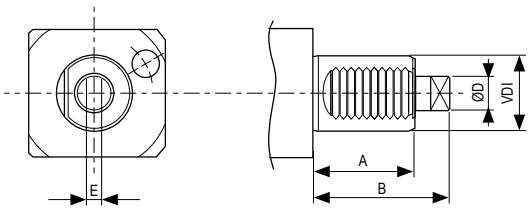
Type	d	d1	d2	f	f1	f2	f3	h1	h2	h3	i1	i2	t	t1
BMT45	45	35	24	-	58	58	-	72	49	35	75	75	8	7

Type	A	B	ØD	E
VDI 25	45	73	23	8

BMT



VDI



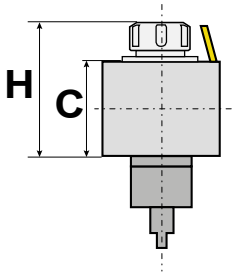
IN FASE D'ORDINE SPECIFICARE - IN CASE OF ORDER PLEASE SPECIFY:
costruttore, modello e numero posizioni in torretta - machine builder, model and turret position numbers

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Spinner | Baruffaldi

Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

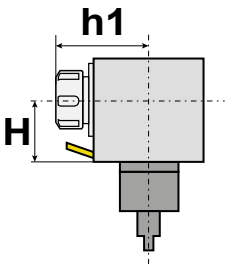
ASSIALE - AXIAL



L'asse dell'utensile è in linea all'asse della torretta o del mandrino

The tool axis is aligned to the turret or spindle axis

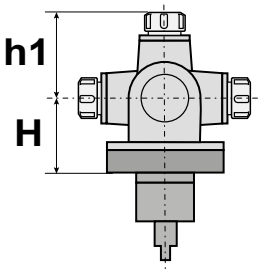
RADIALE - RADIAL



L'asse dell'utensile è perpendicolare all'asse della torretta o del mandrino

The tool axis is perpendicular to the turret or spindle axis

ORIENTABILE - ADJUSTABLE



Permettono di inclinare l'asse dell'utensile secondo un angolo specifico richiesto dalla lavorazione

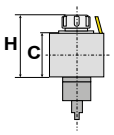
They allow the tool axis to be tilted to a specific angle required for the machining operation

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Spinner | Baruffaldi

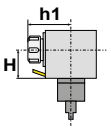
Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

SCAN IT TO SEE
THE TECHNICAL SHEETS



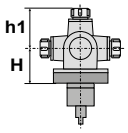
ASSIALE
AXIAL

Code	Output		Int Cool.	H	C	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.SP.A01	ER-25	Ø1÷16	-	58.7	25	35	1 : 1	8.000	2		↓
99.SP.A02	ER-25	Ø1÷16	• 80 bar	58.7	25	35	1 : 1	8.000	2		↓



RADIALE
RADIAL

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	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	5		↓



ORIENTABILE
ADJUSTABLE

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.SP.A13	ER-20	Ø1÷13	-	65	55	17	1 : 1	8.000	3.76		↓
99.SP.A14	ER-20	Ø1÷13	-	65		17	1 : 1	8.000	3.77		↓

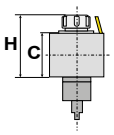
ER Portapinza / Collet Holder
PF Portafresa / Shell Mill Holder
Uguale al Mandrino / Same as Spindle
Opposto al Mandrino / Opposite as Spindle
Refrigerante Interno / Internal Coolant
Scarica il PDF / PDF Download

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Spinner | Baruffaldi

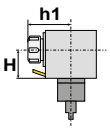
Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

SCAN IT TO SEE
THE TECHNICAL SHEETS



ASSIALE
AXIAL

Code	Output		Int Cool.	H	C	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.SP.A09	ER-25	Ø1÷16	-	73.5	59,5	10	1 : 1	6.000	2	↻	↓
99.SP.A11	ER-25	Ø1÷16	• 80 bar	73.5	59,5	10	1 : 1	6.000	2	↻	↓



RADIALE
RADIAL

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.SP.A10	ER-25	Ø1÷16	-	85	63,3	10	1 : 1	6.000	4	↻	↓
99.SP.A12	ER-25	Ø1÷16	• 80 bar	75	63,3	10	1 : 1	6.000	4	↻	↓

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 | Scarica il PDF PDF Download

TAIWAN

DOTAZIONE STANDARD
STANDARD EQUIPMENT

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

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

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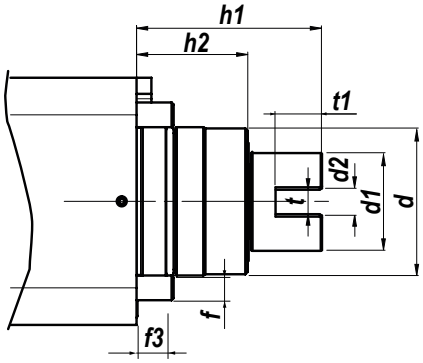
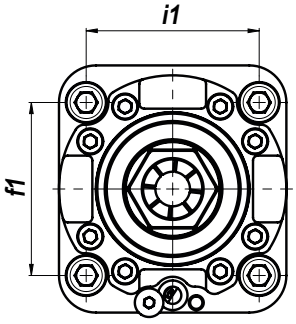
The torque value, expressed in Nm, is the maximum allowed. For longer life, it is recommended to keep it below this limit

Type	d	d1	d2	f	f1	f3	h1	h2	i1	t	t1
BMT60	60	40	10	10	70	15-20	75	45	70	10	19





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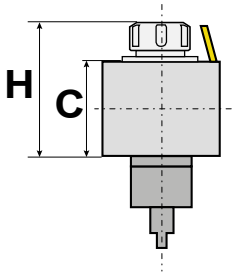
MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Takisawa Taiwan

Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

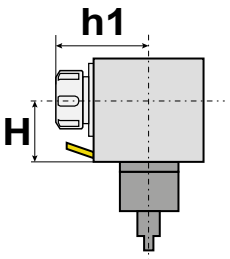
ASSIALE - AXIAL



L'asse dell'utensile è in linea all'asse della torretta o del mandrino

The tool axis is aligned to the turret or spindle axis

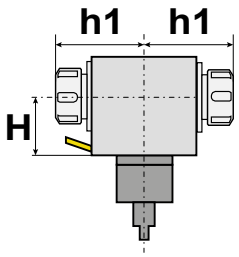
RADIALE - RADIAL



L'asse dell'utensile è perpendicolare all'asse della torretta o del mandrino

The tool axis is perpendicular to the turret or spindle axis

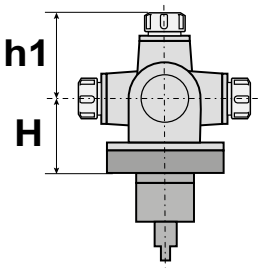
RADIALE DOPPIO - DOUBLE RADIAL



Il motorizzato ha due uscite situate sullo stesso asse radiale, ma rivolte in direzioni opposte

The driven tool has two outputs situated on the same radial axis, but facing in opposite directions

ORIENTABILE - ADJUSTABLE



Permettono di inclinare l'asse dell'utensile secondo un angolo specifico richiesto dalla lavorazione

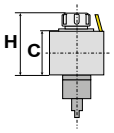
They allow the tool axis to be tilted to a specific angle required for the machining operation

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Takisawa Taiwan

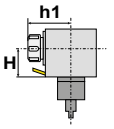
Vedi pagine compatibilità 5.14 / 5.20 - See compatibility pages 5.14 / 5.20

SCAN IT TO SEE
THE TECHNICAL SHEETS



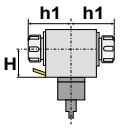
ASSIALE
AXIAL

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



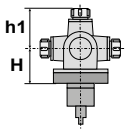
RADIALE
RADIAL

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	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	Kg	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	Kg	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		↻	↓

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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HIGH PERF.

SCARICA IL CAPITOLO
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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

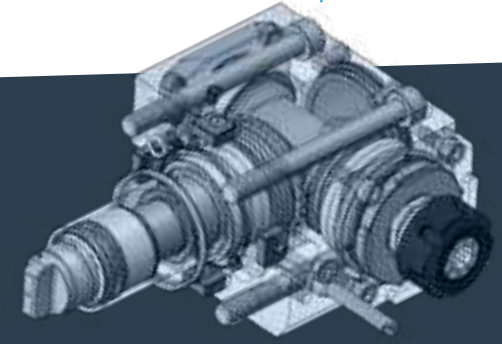
- Possibility of dry running at high speeds (but with values reduced by 70%)
- Continuous improvement of sealing technology

CHIAVE DI BLOCCAGGIO CON SISTEMA "SENZA MANI"

'Hands-free' locking wrench

- La chiave di bloccaggio dell'albero portapinza rimane fissa liberando una mano per un migliore serraggio dell'utesile
- 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

GERARDI

BMT 65

DOTAZIONE STANDARD
STANDARD EQUIPMENT

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

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

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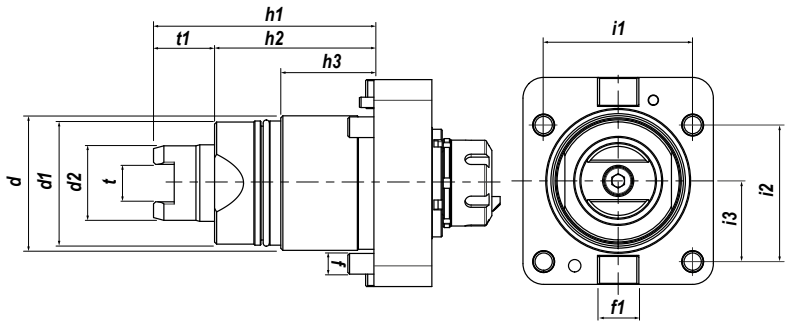
Type	d	d1	d2	f	f1	i1	i2	i3	h1	h2	h3	t	t1
BMT65	65	60	37	10	20	72	66	39	106,5	77	45	18,1	29,5



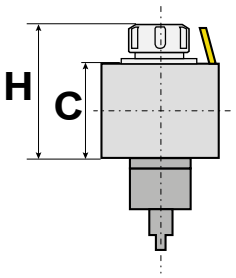
IN FASE D'ORDINE SPECIFICARE - IN CASE OF ORDER PLEASE SPECIFY:
costruttore, modello e numero posizioni in torretta - machine builder, model and turret position numbers

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Tsugami

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

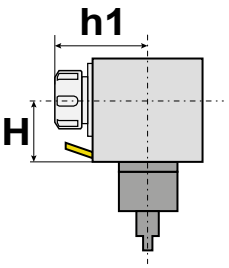
ASSIALE - AXIAL



L'asse dell'utensile è in linea all'asse della torretta o del mandrino

The tool axis is aligned to the turret or spindle axis

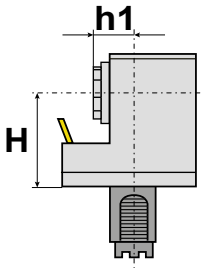
RADIALE - RADIAL



L'asse dell'utensile è perpendicolare all'asse della torretta o del mandrino

The tool axis is perpendicular to the turret or spindle axis

RADIALE ARRETRATO - RADIAL REAR OFFSET

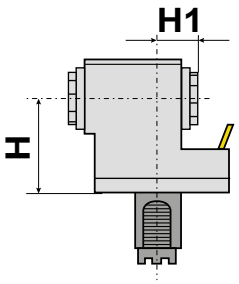


L'asse dell'utensile è perpendicolare all'asse della torretta o del mandrino ma traslato verso il corpo del motorizzato

The tool axis is perpendicular to the axis of the turret or spindle but offset towards the motorised unit

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

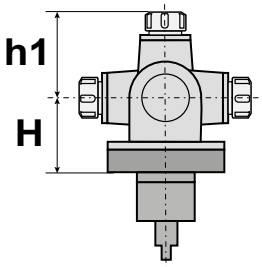
RADIALE DOPPIO ARRETRATO - RADIAL DOUBLE OFFSET



Le due uscite sono spostate all'indietro rispetto all'asse centrale del gambo

The two outputs are set back from the central axis of the stem

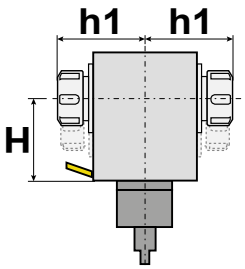
ORIENTABILE - ADJUSTABLE



Permettono di inclinare l'asse dell'utensile secondo un angolo specifico richiesto dalla lavorazione

They allow the tool axis to be tilted to a specific angle required for the machining operation

RADIALE DOPPIO 2 USCITE SU ASSE Y - DOUBLE RADIAL 2 OUTPUTS ON Y AXIS



Due coppie di uscite parallele tra loro e distanziate lungo l'asse Y della macchina

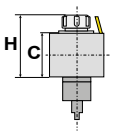
Two pairs of outputs arranged in parallel and spaced apart along the machine's Y-axis

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Tsugami

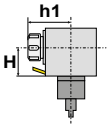
Vedi pagine compatibilità 5.10 / 5.16 - See compatibility pages 5.10 / 5.16

SCAN IT TO SEE
THE TECHNICAL SHEETS



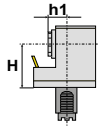
ASSIALE
AXIAL

Code	Output		Int Cool.	H	C	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.TS.A01	ER-25	Ø1÷16	-	62.9	28	40	1 : 1	8.000	4	↻	↓
99.TS.A03	ER-32	Ø2÷20	-	67	28	40	1 : 1	8.000	5	↻	↓
99.TS.A02	ER-25	Ø1÷16	• 10 bar	63	36,5	40	1 : 1	8.000	4	↻	↓
99.TS.A04	ER-32	Ø2÷20	• 10 bar	71		40	1 : 1	8.000	5	↻	↓



RADIALE
RADIAL

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.TS.A08	ER-25	Ø1÷16	-	65	119,9	40	1 : 1	8.000	9	↻	↓
99.TS.A10	ER-32	Ø2÷20	-	65	122	40	1 : 1	8.000	10	↻	↓
99.TS.A14	ER-32	Ø2÷20	-	65	120	40	1 : 1	8.000	10	↻	↓
99.TS.A09	ER-25	Ø1÷16	• 100 bar	69	120	40	1 : 1	8.000	10	↻	↓
99.TS.A11	ER-32	Ø2÷20	• 100 bar	65	122,1	40	1 : 1	8.000	10	↻	↓
99.TS.A15	ER-32	Ø2÷20	• 100 bar	85	121	40	1 : 1	8.000	10	↻	↓
99.TS.A16	ER-32	Ø2÷20	-	85		40	1 : 1	8.000	10	↻	↓



RADIALE ARRETRATO
RADIAL OFFSET

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.TS.A17	ER-25	Ø1÷16	-	85		40	1 : 1	8.000	12	↻	↓
99.TS.A18	ER-25	Ø1÷16	• 100 bar	85		40	1 : 1	8.000	13	↻	↓

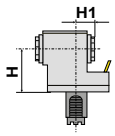
ER Portapinza / Collet Holder
PF Portafresa / Shell Mill Holder
↻ Uguale al Mandrino / Same as Spindle
↻ Opposto al Mandrino / Opposite as Spindle
Refrigerante Interno / Internal Coolant
Scarica il PDF / PDF Download

MODELLI DI TORNIO COMPATIBILI
COMPATIBLE LATHE TYPES

Tsugami

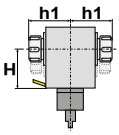
Vedi pagine compatibilità 5.10 / 5.16 - See compatibility pages 5.10 / 5.16

SCAN IT TO SEE
THE TECHNICAL SHEETS



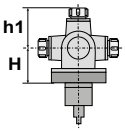
RADIALE DOPPIO ARRETRATO
RADIAL DOUBLE OFFSET

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.TS.A21	ER-25	Ø1÷16	-	85	61,4	40	1 : 1	8.000	13	⟳ ⟲	↓
99.TS.A22	ER-32	Ø2÷20	-	85	38,4	40	1 : 1	8.000	12	⟳ ⟲	↓



RADIALE DOPPIO 2 USCITE SU ASSE Y
DOUBLE RADIAL 2 OUTPUTS ON Y AXIS

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.TS.A23	ER-20	Ø1÷13	-	90	63,5	40	1 : 1	6.000	12	⟳	↓



ORIENTABILE
ADJUSTABLE

Code	Output		Int Cool.	H	h1	Nm	Ratio	Rpm	Kg	Sense of Rotation	Tech. Draw
99.TS.A24	ER-20	Ø1÷13	-	65	59	15	1 : 1	8.000	4	⟳	↓
99.TS.A25	ER-20	Ø1÷13	• 70 bar	65	59	15	1 : 1	8.000	4	⟳	↓
99.TS.A26	ER-16	Ø1÷10	-	65	53	15	1 : 1	8.000	4	⟳	↓
99.TS.A27	ER-16	Ø1÷10	• 80 bar	65	53	15	1 : 1	8.000	4	⟳	↓

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
Scarica il PDF / PDF Download

MODULAR QUICK CHANGE ADAPTORS 2.0

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.

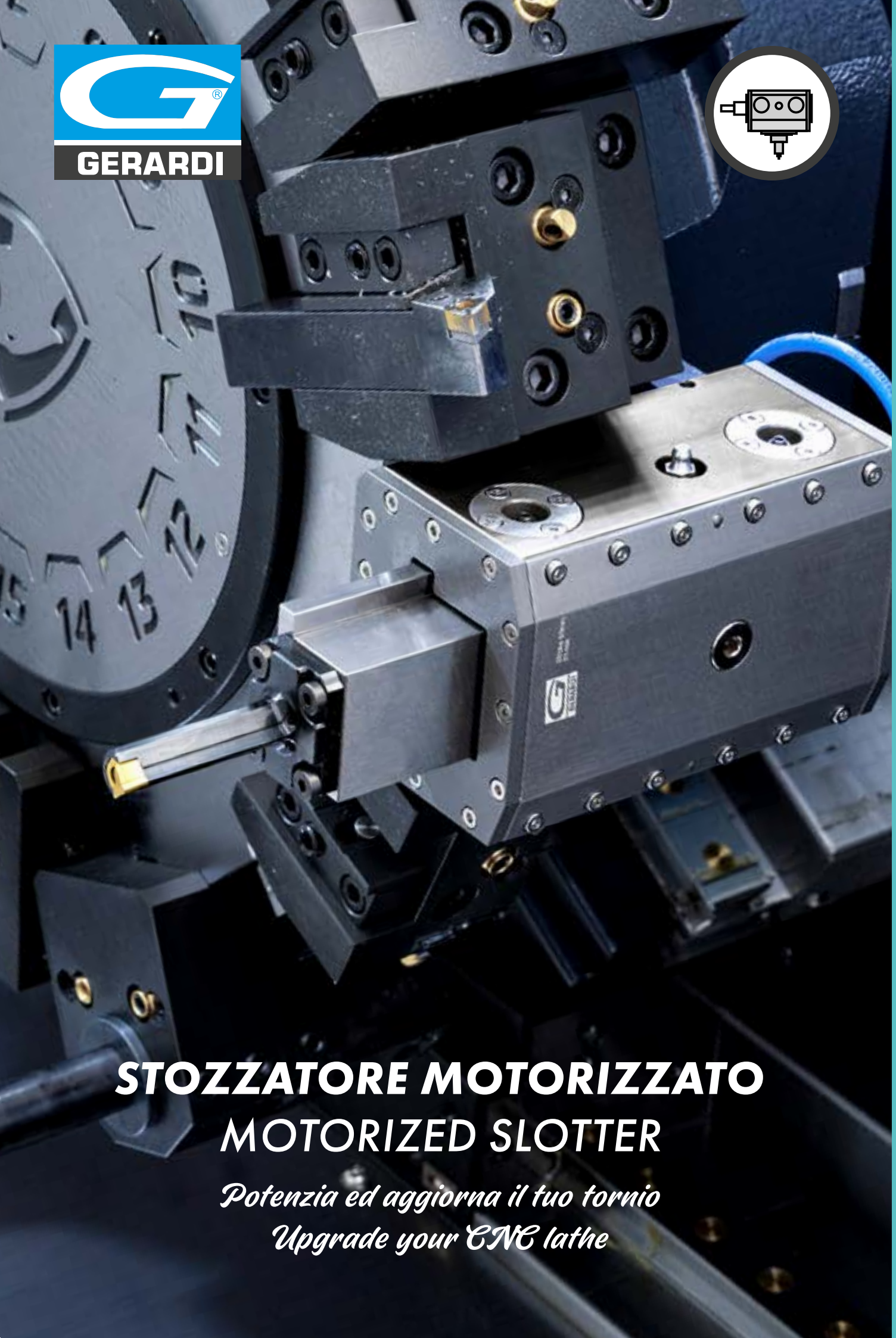
- Universal HIGH TORQUE modular quick change adaptor 100% Made in Italy.
- Guaranteed higher rigidity and performances on Gerardi driven tools thanks to the removable diamond plate and the ball bearing nut
- Suitable for ER toolholder with external and internal coolant supply
- Using the quick change 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

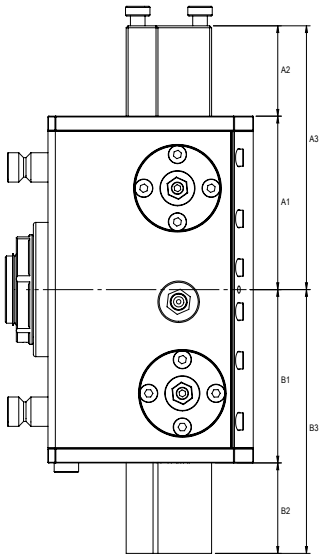
100% MADE IN ITALY

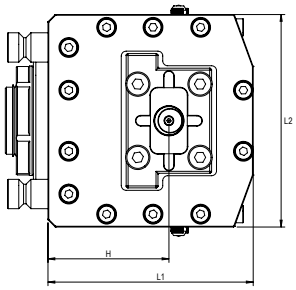


STOZZATORE MOTORIZZATO
MOTORIZED SLOTTER

Potenzia ed aggiorna il tuo tornio
Upgrade your CNC lathe

STOZZATORE MOTORIZZATO RADIALE
RADIAL MOTORIZED SLOTTER





Flangia Interfacciabile con qualunque tornio e torretta
Flange compatible with any lathe and turret

Flangia venduta singolarmente Flange sold separately	Montaggio radiale Radial mounting
	Montaggio assiale Axial mounting

STOZZATORE RADIALE - RADIAL MOTORIZED SLOTTER

Cod.	Corsa Stroke	A1	A2	A3	B1	B2	B3	L1	L2	H	Kg	RPM Max
99.ZZ.25	25	50	27	77	46	27	73	52	63	30	2,30	1500
99.ZZ.35	35	71	37	108	71	37	108	84	87	49,5	6,30	800
99.ZZ.50	50	88,5	52	140,5	73,5	52	125,5	84	99	49,5	8,20	700
99.ZZ.65	65	101	67	168	76	67	76	87,5	111	51	8,80	500

* 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

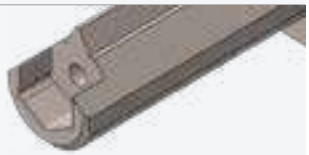
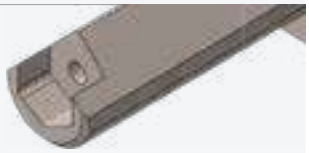
SPESSORE MASSIMO REALIZZABILE SUI VARI MATERIALI E PARAMETRI DI TAGLIO
MAXIMUM THICKNESS ACHIEVABLE ON VARIOUS MATERIALS AND CUTTING PARAMETERS

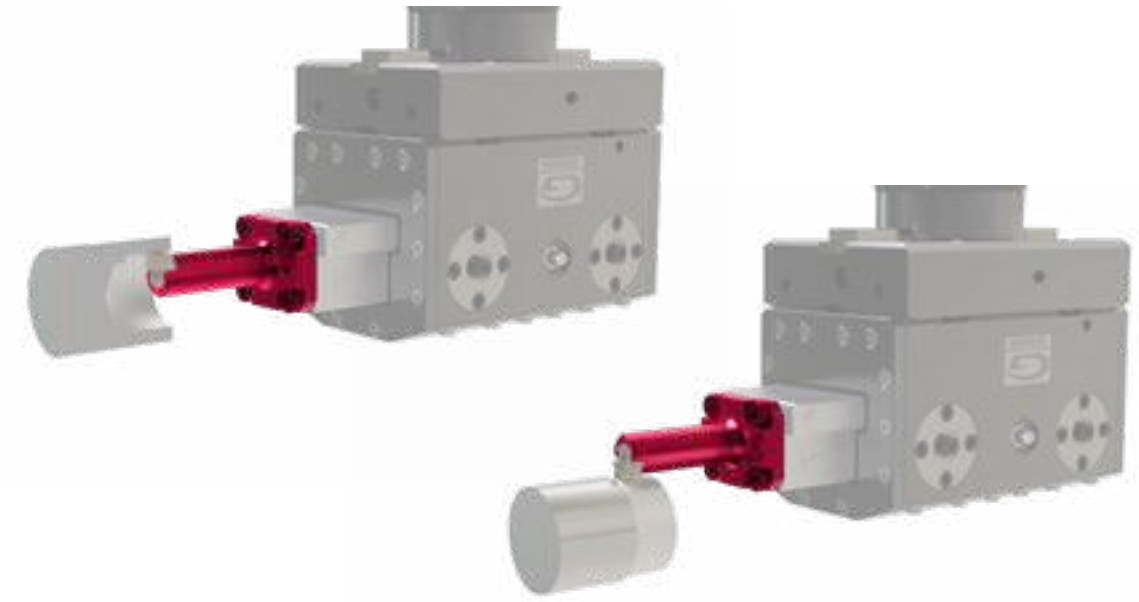
	Corsa 35 (mm) Stroke 35 (mm)	Corsa 50 (mm) Stroke 50 (mm)	Corsa 65 (mm) Stroke 65 (mm)	Velocità di taglio Cutting speed	Incremento (mm) Increase (mm)
ALLUMINIO	16	16	16	38 m/min.	0,06 / 0,15
ACCIAIO TENERO	14	14	14	33 m/min.	0,04 / 0,07
GHISA	14	14	12	28 m/min.	0,04 / 0,07
ACCIAIO COMUNE	14	14	12	30 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

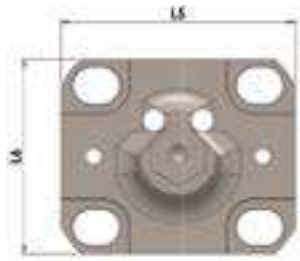
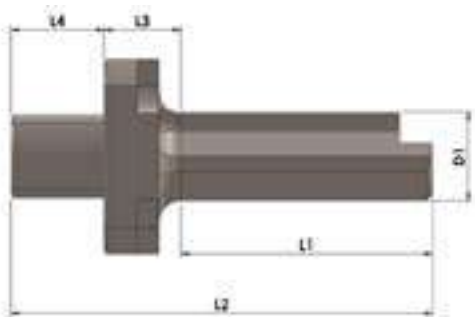
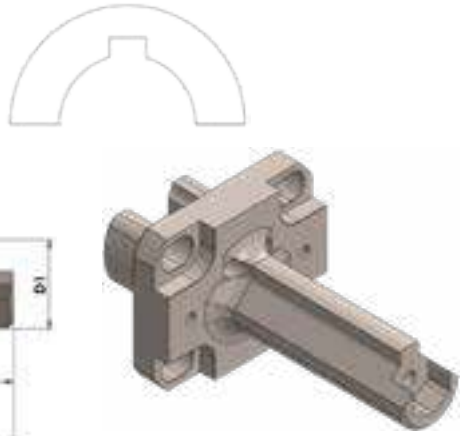
SERIE GR-PM GR-PP / GR-PE / GR-PQ / GR-PS / GR-PX

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

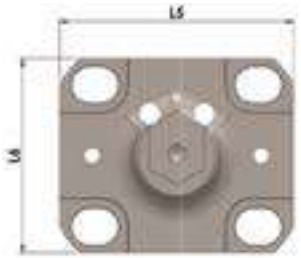
Serie per realizzazione profili rettangolari interni (sedi)
Series for creating internal rectangular profiles (seats)

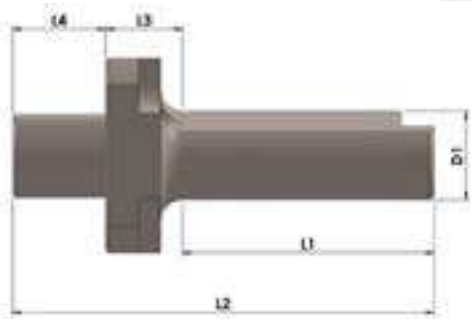




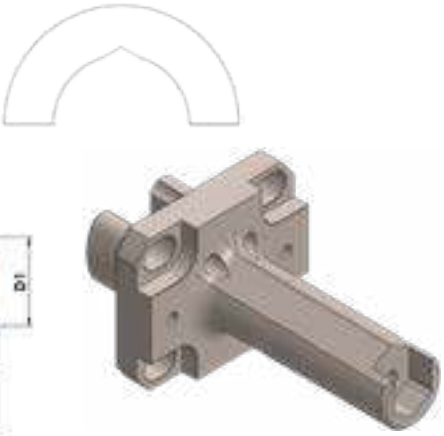
Per corsa For stroke	Cod.	Grandezza sede Slot size	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	D1 (mm)	Foro minimo Min hole (mm)	Peso Weight (g)
25	99.ZZ.PM2-02	02	26	43	8	9	27,5	19	6,5	7	26
	99.ZZ.PM2-03	03	26	43	8	9	27,5	19	8	8,7	28
	99.ZZ.PM2-04	04	26	43	8	9	27,5	19	10	11	34
	99.ZZ.PM2-05	05	26	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	150
	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°



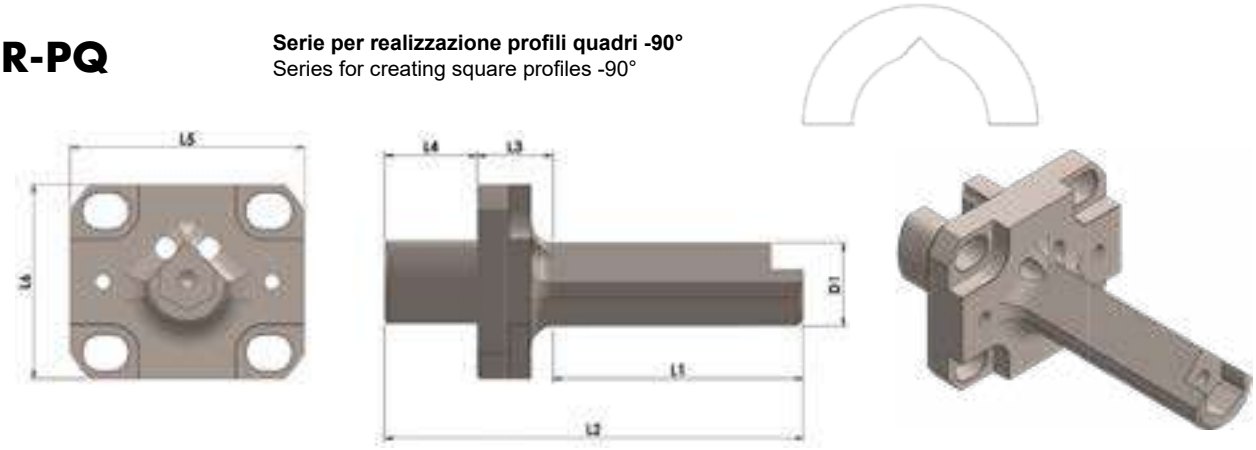




Per corsa For stroke	Cod.	Grandezza sede Slot size	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	D1 (mm)	Foro minimo Min hole (mm)	Peso Weight (g)
	99.ZZ.PE2-0911	9/11	26	43	8	9	27,5	19	8	8,7	28
25	99.ZZ.PE2-1117	11/17	26	43	8	9	27,5	19	10	11	34
	99.ZZ.PE2-1728	17/28	26	43	8	9	27,5	9	15	16,5	39
	99.ZZ.PE3-0911	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
35	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
	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
50	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
	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
65	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

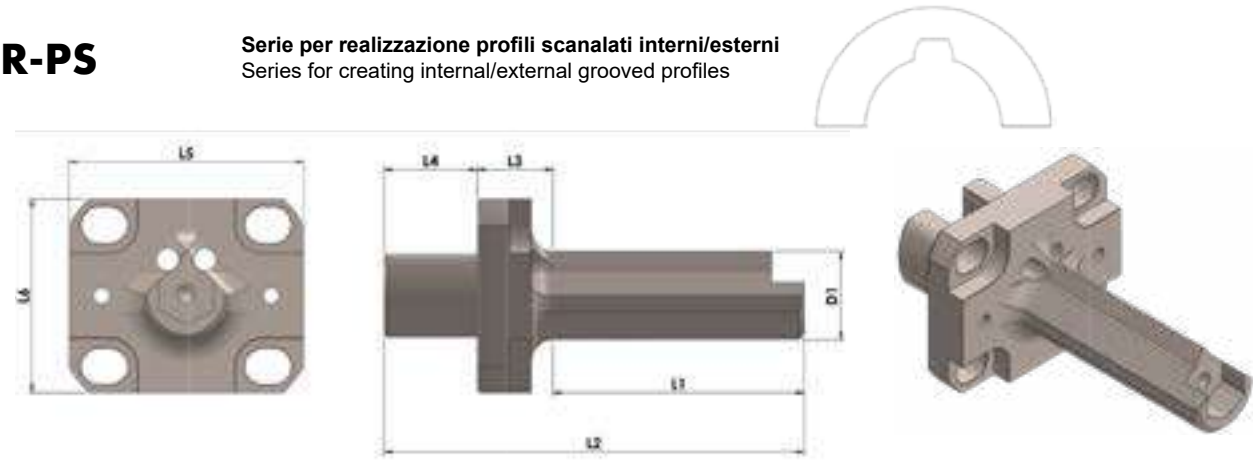
Serie per realizzazione profili quadri -90°
Series for creating square profiles -90°



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

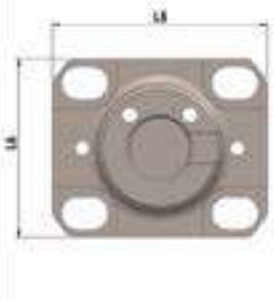
Serie per realizzazione profili scanalati interni/esterni
Series for creating internal/external grooved profiles

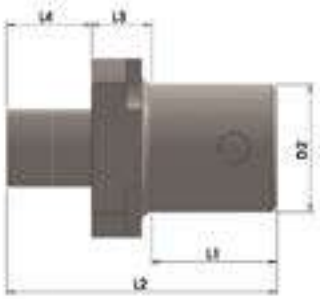


Per corsa For stroke	Cod.	Grandezza sede Slot size	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	D1 (mm)	Foro minimo Min hole (mm)	Peso Weight (g)
	99.ZZ.PS2-02	02	26	43	8	9	27,5	19	6,5	7	26
	99.ZZ.PS2-03	03	26	43	8	9	27,5	19	7,8	8,7	28
25	99.ZZ.PS2-04	04	26	43	8	9	27,5	19	10	11	34
	99.ZZ.PS2-05	05	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
	99.ZZ.PS3-02	02	25	56	14	17	43	35	6,5	7	150
	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
35	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
	99.ZZ.PS5-02	02	25	56	14	17	43	35	6,5	7	150
	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
50	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
	99.ZZ.PS6-02	02	25	56	14	17	43	35	6,5	7	150
	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
65	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

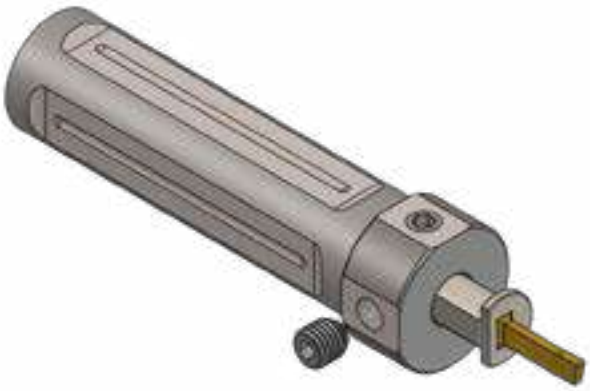
Adattatore serie per realizzare micro lavorazioni speciali
Adapter for series for creating special micro-machining operations





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

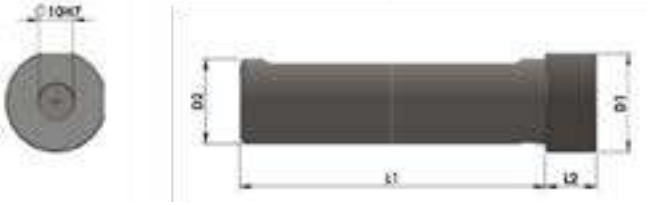
Profilo esagonale
Hexagonal profile

Profilo doppio quadro
Double square profile

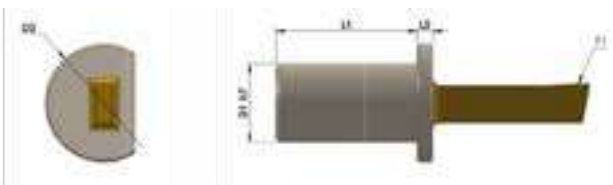
Profilo circolare
Circular profile

Profilo evolvente circolare
Circular involute profile

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



INSERTO INTEGRALE
INTEGRAL INSERT

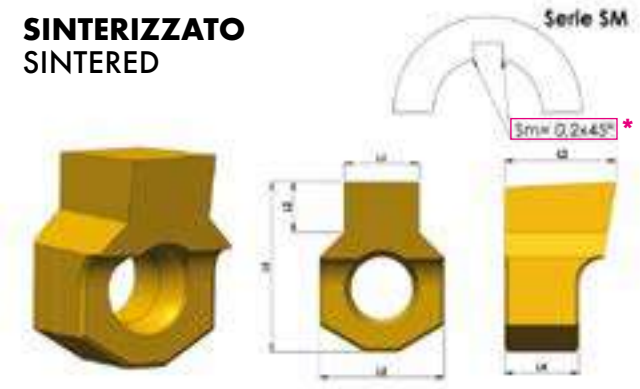


INSERTI
INSERTS

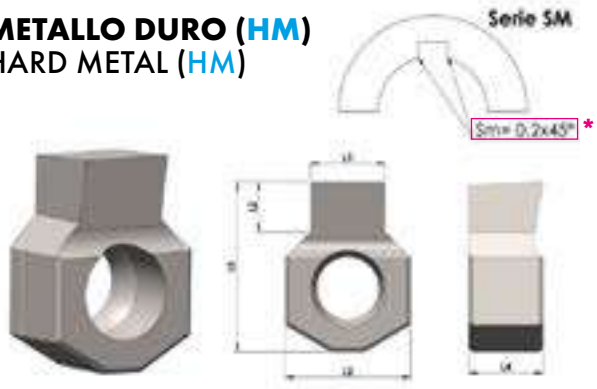
IM (mm) **IP (inch)**	**INSERTI PER SEDE RETTANGOLARE** INSERTS FOR RECTANGULAR SHAPE	**Disponibili sia in lega sinterizzata realizzata dalle micro-polveri, sia in metallo duro (HM). La loro geometria consente un alto numero di riaffilature. Gli inserti la cui sigla termina con il suffisso "SM" eseguono 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** 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.

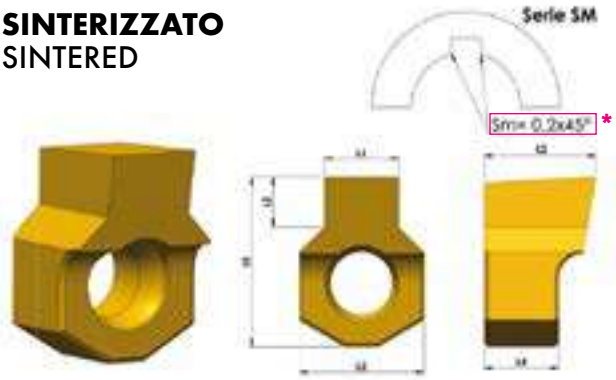
Cod.	Tolleranza Tolerance	Tipo Type	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	Compatibile solo con serie Compatible only with series
GR-INM6-P9	P9	06	5,988	10,08	9	6	13,5	4	PM
GR-INM6-P9SM*	P9-SM	06	5,988	10,08	9	6	13,5	3,3	PM
GR-INM6-H7	H7	06	6,012	10,08	9	6	13,5	4	PM
GR-INM6-H7SM*	H7-SM	06	6,012	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.

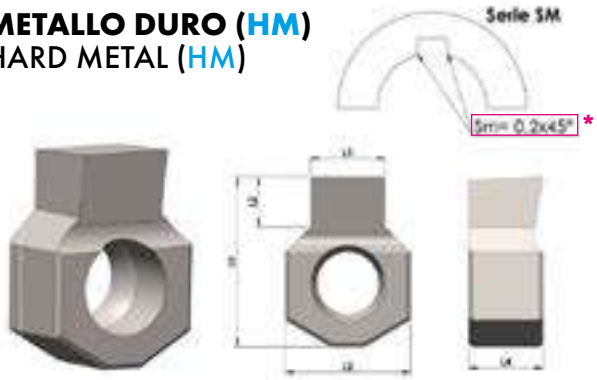
Cod.	Tolleranza Tolerance	Tipo Type	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	Compatibile solo con serie Compatible only with series
GR-INM20-P9▲	P9	20	19,978	26	18	10	30	6,29	PM
GR-INM20-P9SM*▲	P9-SM	20	19,978	26	18	10	30	4	PM
GR-INM20-H7▲	H7	20	20,021	26	18	10	30	6,29	PM
GR-INM20-H7SM*▲	H7-SM	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

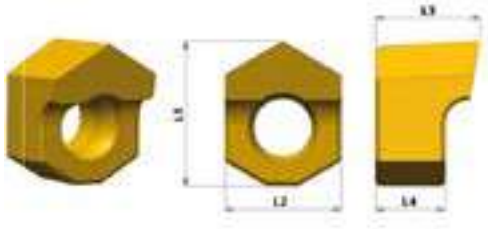
▲ Per queste misure di inserti si consiglia di suddividere la lavorazione in due fasi: sgrossatura e finitura.
▲ For these insert dimensions, we recommend dividing the machining process into two stages: roughing and finishing.

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

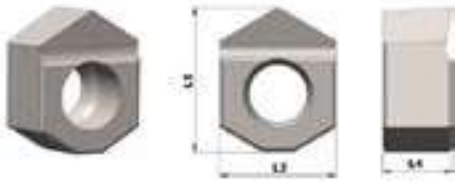
▲ Per queste misure di inserti si consiglia di suddividere la lavorazione in due fasi: sgrossatura e finitura.
▲ For these insert dimensions, we recommend dividing the machining process into two stages: roughing and finishing.

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

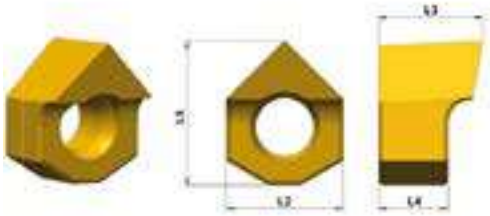
Per realizzare fori esagonali interni si deve eseguire un preforo il cui diametro è dato dalla seguente formula:

DIAMETRO PREFORO = LATO DELL'ESAGONO x 1,020

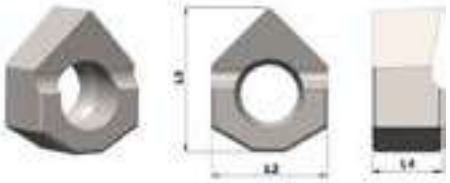
Ad esempio, nel caso di sede esagonale con lato 10 mm il diametro del preforo sarà: 10 mm x 1,020 = 10,20 mm

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:

DIAMETRO PREFORO = LATO DEL QUADRO x 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