



GERARDI MOTORIZZATI - DRIVEN TOOLS

- BIGLIA **NEW!**
- CMZ
- DMG/MORI SEIKI
- DOOSAN
- GOODWAY
- HAAS
- MAZAK **NEW!**
- MIYANO **NEW!**
- NAKAMURA **NEW!**



5



MADE IN ITALY



COMPATIBILITÀ MOTORIZZATI / DRIVEN TOOLS COMPATIBILITY

Torretta - Turret	Costruttore - Manufacturer	Modello Tornio - Type of lathe
BMT 45 Pag. 5.26 > 5.29	Doosan 	LYNX220 (M/MS/LM) PUMA MX1600 (ST)
	Hardinge	T-42 SUPER-PRECISION
	Samsung	PL 1600 M/CM
BMT 55 Pag. 5.30 > 5.33	Doosan 	LYNX 300 (M) PUMA 230 / 240 / 280 (M,LM,S) PUMA 1500 / 2000 / 2500 (M,S,Y) PUMA 2100 (Y,LY,SY,LSY) PUMA GT 2100M PUMA H 250TM PUMA MX 2100 (ST/LST) PUMA TL 2000 / 2500 (M,LM) PUMA TT 1500 / 1800 (MS,SY)
	Hardinge	T-51 / 65 SUPER-PRECISION - H51
	Hwacheon	CUTEX-160 / 240 / T2
	Hyundai WIA	L230 LMSA SKT-160 / 180 TTMS / TTSY LM 1600 / 1800 TTSY
	Samsung	PL 240LM
	Doosan 	PUMA 2100 / 2600 (M, LM, MS, LMS) (Y, LY, SY, LSY) PUMA 300 (M, MS, MB, MC) PUMA 3100 (M, LM, LY, XLM, XLY, ULM, ULY) PUMA MX2000 / 2500 PUMA MX2600 (T, ST) PUMA TT2000 (MS / MY) PUMA TT2500 (MS / SY) PUMA TX200 (M,Y, YY) PUMA V400 (M) PUMA VT450 (M, 2SP)
BMT 65 Pag. 5.34 > 5.37	Hwacheon	CUTEX-240 / HI-TECH200/ T2-SERIES HI-TECH 300/400 VT-450
	Hyundai WIA	L300M / MS LM 2000 / 2500 TTM / 2500 TTMS / 2500 TTSY L2100 SY SKT200 / 250TTM/MS/SY SKT250 / 300M/MS
	Samsung	PL 20/25M PL 35LM PL 2000/2500Y
	Victor	VTURN-A26 (Y)(S)CM
BMT 75 Pag. 5.38 > 5.41	Doosan 	PUMA 400 / 480 (M,LM,XLM) PUMA 500 (M) PUMA V550 (M) PUMA VT750 (TM,2SP)
	Hwacheon	HI-TECH 550 / 700 / 7026 VT-550
	Hyundai WIA	LV800RM / SKT - V80R / RM SKT-400 MA / MC / LMC SKT-400 M / LMC
	Samsung	PL 45LM
BMT 85 Pag. 5.42 > 5.44	Doosan 	PUMA 600/700/800 (M,LM,XLM,XLY) PUMA VT900 (M,2SP) PUMA VT1100 (M)
	Hwacheon	VT-950 / 1150
	Hyundai WIA	L600 / 700M / LM SKT600 WT 1100
	Samsung	PL 60L

COMPATIBILITÀ MOTORIZZATI / DRIVEN TOOLS COMPATIBILITY

Torretta - Turret	Costruttore - Manufacturer	Modello Tornio - Type of lathe
MIYANO Ø38	Miyano 	BNA 34 / 42 (CS)
MIYANO Ø45 Pag 5.68 > 5.71	Miyano 	ABX 51/64 TH2/TH3 BNE 34/42 BNJ 42/51
	Goodway	GLS 1500 / 2000
MIYANO Ø54 Pag 5.73 > 5.74	Miyano 	ABX 51 / 64 THY ABX 51 / 64 SYY
	DMG / Mori Seiki 	SL/ZL 150/153/154 DL 150
SU RICHIESTA ON REQUEST	Goodway	GTS 100 (M,MX,MMX) GTS 150 (M,MX,MMX)
	Goodway	GTS 260MMY
SU RICHIESTA ON REQUEST	Goodway	GLS 1500/2000
SU RICHIESTA ON REQUEST	CMZ	TL 15 (M,MS,TM) TB 46 / 67 (M,CM)
DMG/MORI SEIKI - NL Pag 5.14 > 5.16	Mori Seiki 	NL / NLX 1500/2000/2500/3000 (12 Station Turret) NT 4000 / 4200 / 4250 / 4300 / 5000 / 5400 NZL 2000 - 2500 NZX 2500 (12 Station Turret)
	Goodway	G4 / GS 2000/2600/2800/3000/3300/3600
DMG/MORI SEIKI - NZ Pag 5.17 > 5.19	Mori Seiki 	NZ 1500/2000/3100 NT / NTZ 1000 / 2000 / 3000 / 3100 / 3150 / 3200 DURATURN 2050 / 2550 MC NZ / NZX 2000 / 2500 (16 Station Turret) NL / NLX 1500 / 2000 / 2500 (20 Station Turret)
	Mori Seiki 	ZL/DL 200/250 (MC) SL 200/203/204/250/253/254 (MC,SMC) - 2500Y
DMG/MORI SEIKI SL - ZL - DL Pag 5.20 > 5.24	CMZ	TL 20/25 TC 15/20/25/30/35
	Goodway	GS 200/260/280 GA 2000/2600/2800/3000/3300/3600
	Mori Seiki 	WT100 - WY100 NTY 3- NTJ 100
NAKAMURA - BMT44 Pag 5.76 > 5.77	Nakamura 	SC-150/250 Super NTJ/NTM3 TW-10 WT-20II (M,MY) / WT-150/250 / WTW-150 / WTS-150
	CMZ	TX 52 / 66
NAKAMURA - BMT55 Pag 5.78 > 5.79	Nakamura 	TW20 - SC300 - WT300
	Haas - L= 104.85 mm	SL20 - SL30
HAAS Pag 5.45 > 5.52	Haas - 117.55 mm	DS30 / SL40 / ST40 (Vdi Turret) DS30 / ST20 / ST30 (VB24 Hybrid Turret) DS20-30 / SL 20-30-40 / ST 20-30 (VB12 Hybrid Turret)
	Haas - 130.25 mm	ST40 (VB12 Hybrid Turret)

INDICE - INDEX

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universale - universal

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disassato - offset axis

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universale - universal

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NEW!

PORTAFRESA A DISCO
SHELL END MILLING CUTTER

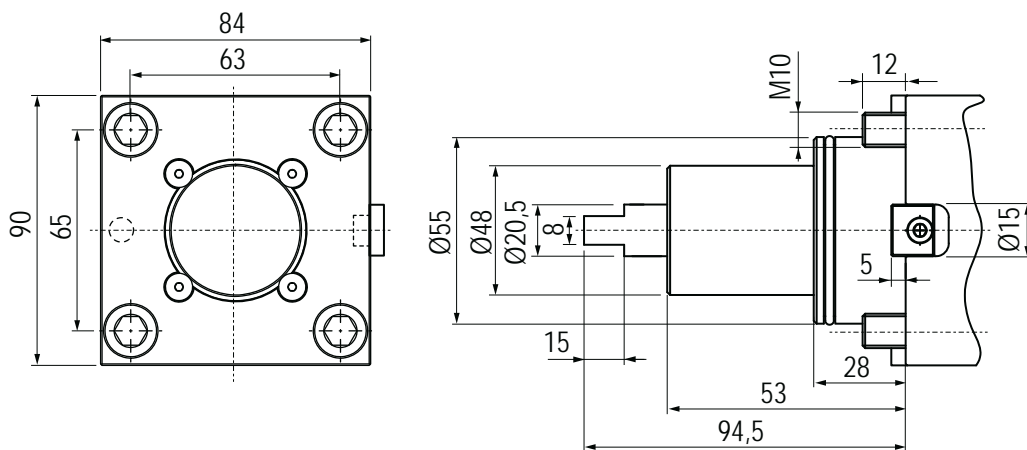
BIGLIA MOTORIZZATI - DRIVEN TOOLS



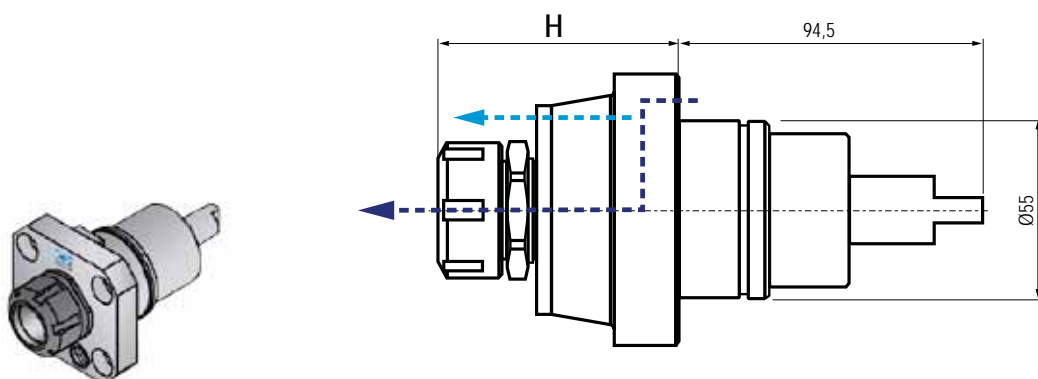
DOTAZIONE STANDARD
STANDARD EQUIPMENT

Chiave ES bloccaggio albero / chiave ER
bloccaggio ghiera / ugello refrigerazione
/ viti bloccaggio motorizzato

Hexagonal tool shaft lock wrench / ER
nut lock wrench / cooling nozzle / nozzle
lock screws / driven tool locking screws



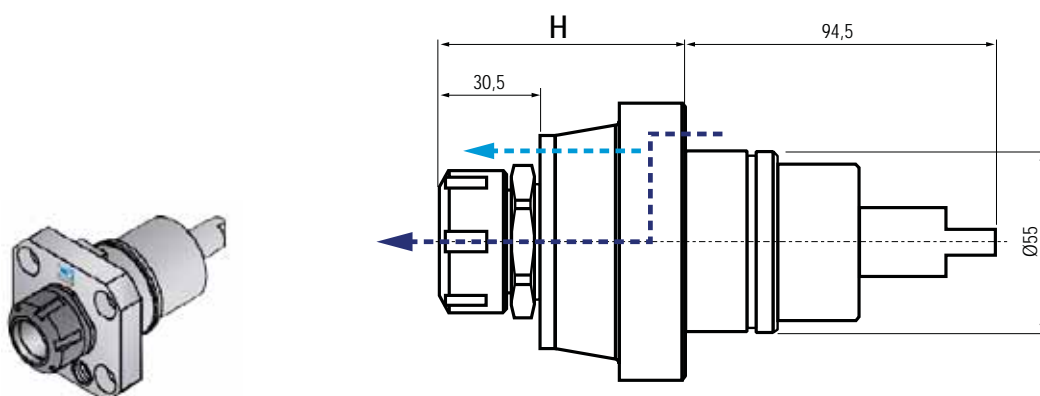
N.B: Verifica compatibilità motorizzati a pagina 5.2 - 5.3 - Check the driven tools compatibility at page 5.2 - 5.3

B501-Y / B301 / B470 / B455 / B510 / B550 / B650 / B658 / 1200

 Assiale - Portapinzina
 Axial - Collet Chuck

20 BAR

 RATIO
1:1

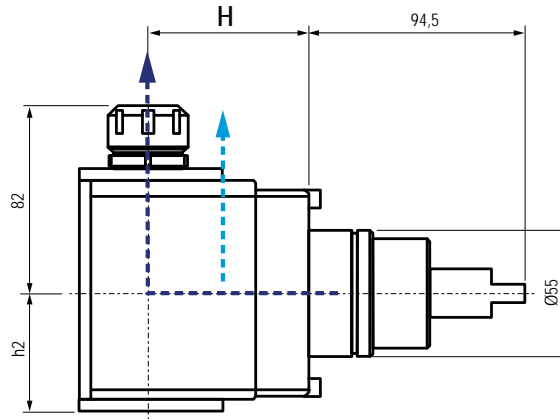
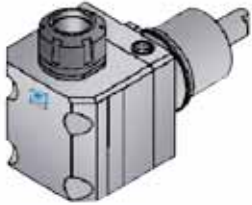
Cod.	Output	Int Cool	H	Nm	Rpm	
99.BG.B01.A	ER-25 - Ø1±16	NO	63,5	-	4.000	
99.BG.B01.B	ER-25 - Ø1±16	NO	75	-	4.000	
99.BG.B01.C	ER-25 - Ø1±16	NO	53,5	-	4.000	
99.BG.B01.D •	ER-25 - Ø1±16	√	63,5	-	4.000	
99.BG.B01.E •	ER-25 - Ø1±16	√	75	-	4.000	

5

 Assiale - Portapinzina
 Axial - Collet Chuck

20 BAR

 RATIO
1:1

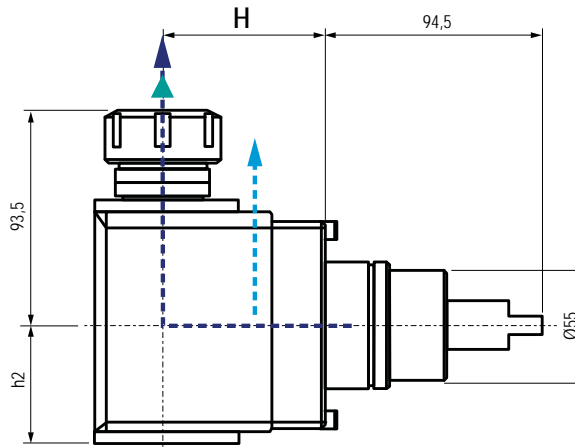
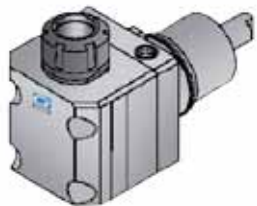
Cod.	Output	Int Cool	H	Nm	Rpm	
99.BG.B02.A	ER-32 - Ø2±20	NO	83,5	-	4.000	
99.BG.B02.B	ER-32 - Ø2±20	NO	71,5	-	4.000	
99.BG.B02.C	ER-32 - Ø2±20	NO	59	-	4.000	
99.BG.B02.D •	ER-32 - Ø2±20	√	83,5	-	4.000	
99.BG.B02.E •	ER-32 - Ø2±20	√	71,5	-	4.000	

B501-Y / B301 / B470 / B455 / B510 / B550 / B650 / B658 / 1200

 Radiale - Portapinza
Radial - Collet Chuck
20 BAR

 Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle
 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

 RATIO
 1:1 / 1:2 / 2:1

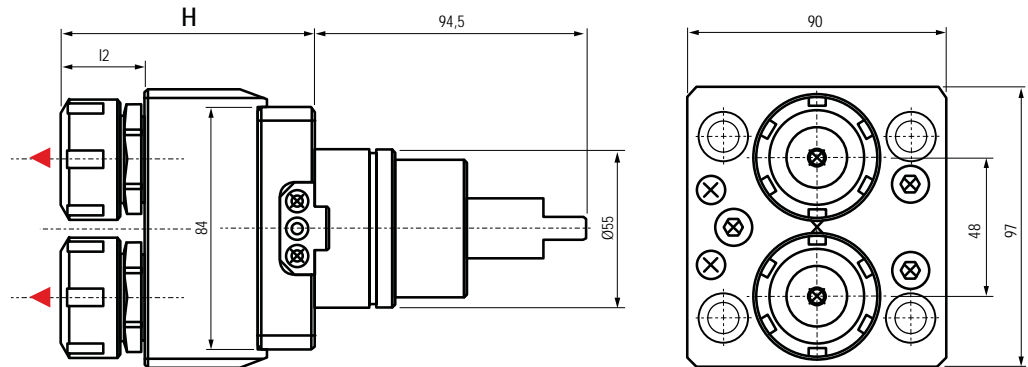
Cod	Output	Int Cool	H	h2	Nm	Rpm	τ	
99.BG.B04.A	ER-25 - Ø1÷16	NO	70	51	47	4.000	1:1	
99.BG.B04.B •	ER-25 - Ø1÷16	√	70	68	47	4.000	1:1	
99.BG.B04.C	ER-25 - Ø1÷16	NO	100	51	47	4.000	1:1	
99.BG.B04.D •	ER-25 - Ø1÷16	√	100	68	47	4.000	1:1	
99.BG.B04.E	ER-25 - Ø1÷16	NO	70	59,25	-	8.000	1:2	
99.BG.B04.F	ER-25 - Ø1÷16	On Req.	70	51	-	2.000	2:1	


 Radiale - Portapinza
Radial - Collet Chuck
20 BAR

 Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle

 RATIO
 1:1

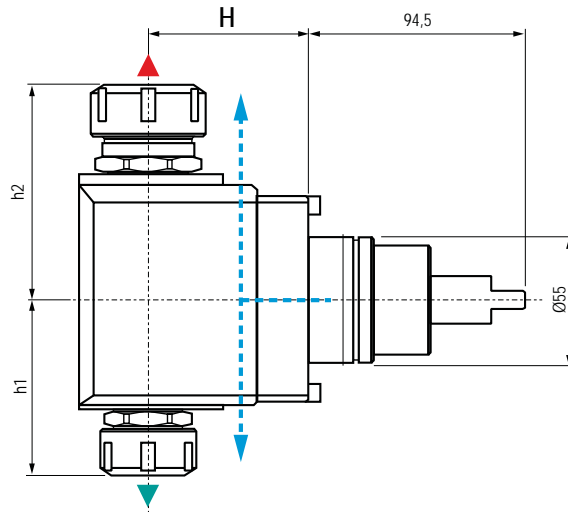
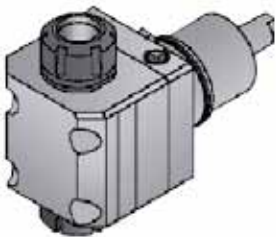
Cod.	Output	Int Cool	H	h2	Nm	Rpm	
99.BG.B05.A	ER-32 - Ø2÷20	NO	70	51	47	4.000	
99.BG.B05.B •	ER-32 - Ø2÷20	√	70	68	47	4.000	
99.BG.B05.C	ER-32 - Ø2÷20	NO	100	51	47	4.000	
99.BG.B05.D •	ER-32 - Ø2÷20	√	100	68	47	4.000	

B501-Y / B301 / B470 / B455 / B510 / B550 / B650 / B658 / 1200

 Doppio - Portapinza
 Double - Collet Chuck

 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

 RATIO
1:1

Cod.	Output	Int Cool	H	l2	Nm	Rpm	
99.BG.B06.A	ER-16-16 - Ø1÷10	NO	84	25	-	4.000	
99.BG.B06.B	ER-20-20 - Ø1÷13	NO	87	28	-	4.000	
99.BG.B06.C	ER-25-25 - Ø1÷16	NO	88	29	-	4.000	

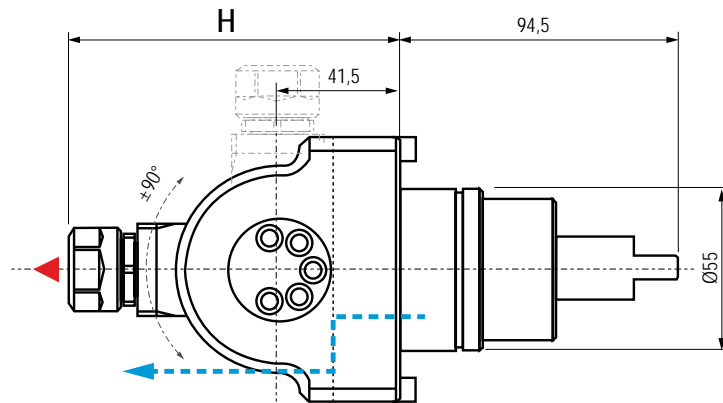
5

 Doppio - Portapinza
 Double - Collet Chuck

 Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle

 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

 RATIO
1:1

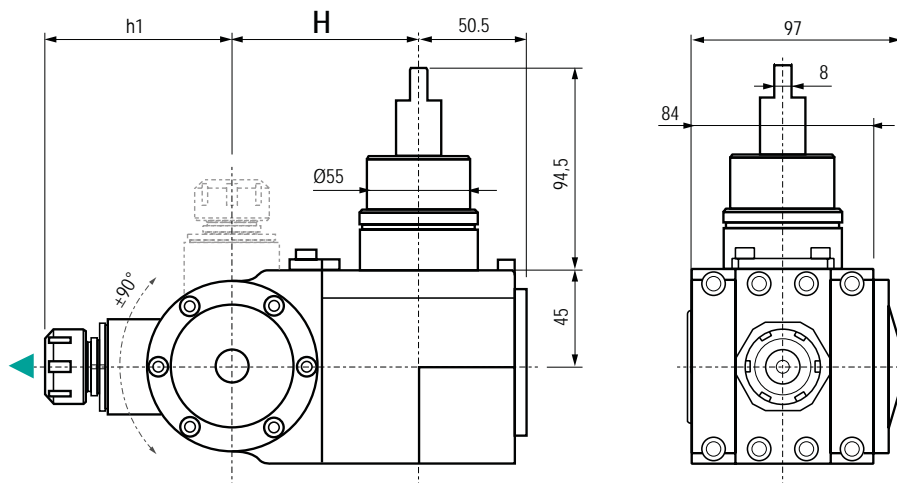
Cod.	Output	Int Cool	H	h1	h2	Nm	Rpm	
99.BG.B07.A	ER-32 - 25	NO	70	70	85	47	4.000	
99.BG.B07.B	ER-32 - 25	NO	100	70	85	47	4.000	
99.BG.B08.A	ER-25 - 25	NO	70	70	76	47	4.000	
99.BG.B08.B	ER-25 - 25	NO	100	70	76	47	4.000	
99.BG.B09.A	ER-25 - 16	NO	70	68	76	47	4.000	
99.BG.B09.B	ER-25 - 16	NO	100	68	76	47	4.000	

B501-Y / B301 / B470 / B455 / B510 / B550 / B650 / B658 / 1200

 Orientabile - Portapinza
Adjustable Angle - Collet Chuck

 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

 RATIO
1:1

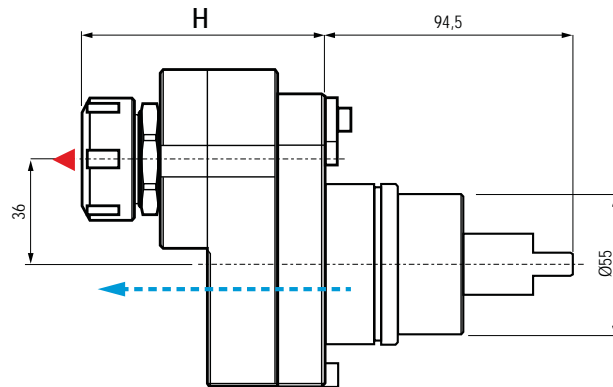
Cod.	Output	Int Cool	H	h1	h2	Nm	Rpm	
99.BG.B10 (0° - 90°)	ER-20 - Ø1±13	NO	41,5	98,5	140	-	4.000	
99.BG.B11 (0° - 180°)	ER-16 - Ø1±10	NO	41,5	71	112,5	-	4.000	


 Orientabile - Portapinza
Adjustable Angle - Collet Chuck

 Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle

 RATIO
1:1

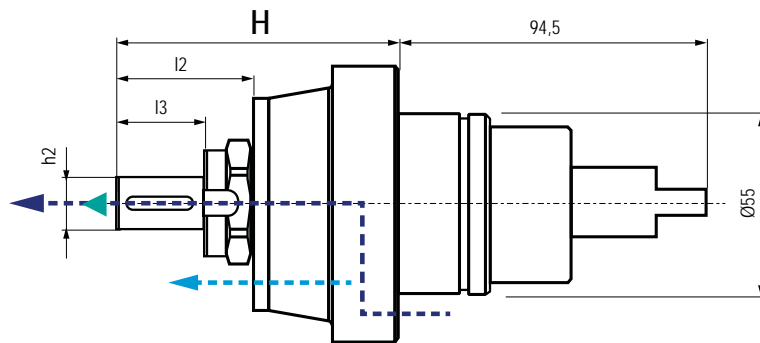
Cod.	Output	Int Cool	H	h1	Nm	Rpm	
99.BG.B12	ER-20 - Ø1±13	NO	87	87,5	-	4.000	

B501-Y / B301 / B470 / B455 / B510 / B550 / B650 / B658 / 1200

 Disassato - Portapinzza
Offset Axis - Collet Chuck
20 BAR

 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:2

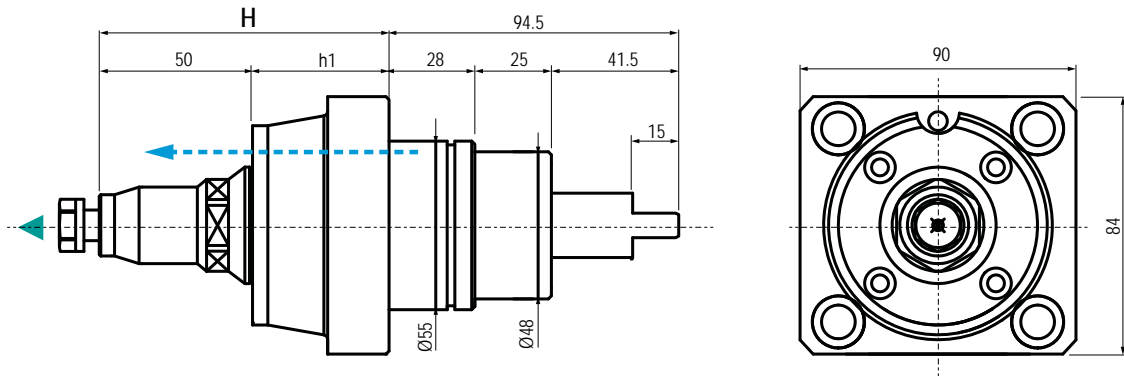
Cod.	Output	Int Cool	H	Nm	Rpm	
99.BG.B14	ER-25 - Ø1÷16	NO	92,5	-	8.000	
99.BG.B14.A	ER-16 - Ø1÷10	NO	75	-	8.000	
99.BG.B14.B	ER-16 - Ø1÷10	√	85	-	8.000	


 Assiale - Portafresa
Axial - Shell End Milling Cutter
20 BAR

 Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle

RATIO
1:1

Cod.	PF	Int Cool	H	l2	l3	h2	Nm	Rpm	
99.BG.B15.A	PF-16	NO	86,5	42	27	Ø16	-	4.000	
99.BG.B15.B	PF-22	NO	92	47,5	31	Ø22	-	4.000	
99.BG.B15.C	PF-27	NO	94	49,5	33	Ø27	-	4.000	
99.BG.B16.A •	PF-16	√	76,5	32	17	Ø16	-	4.000	
99.BG.B16.B •	PF-22	√	80	35,5	19	Ø22	-	4.000	

B501-Y / B301 / B470 / B455 / B510 / B550 / B650 / B658 / 1200


Assiale - Portafresa a Disco
Axial - Shell End Milling Cutter

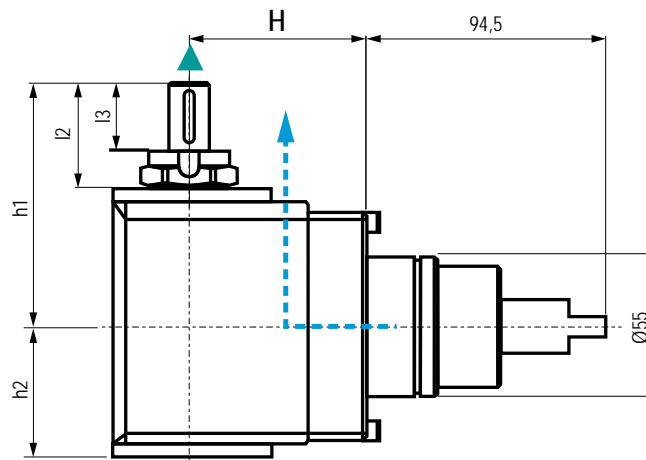


Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle



RATIO
1:1

Cod.	PF	Int Cool	H	h1	Ø	Nm	Rpm	
99.BG.B15.D	PF-10	NO	94,5	44,5	Ø10	-	4.000	
99.BG.B15.E	PF-13	NO	94,5	44,5	Ø13	-	4.000	
99.BG.B15.F	PF-10	NO	82,5	32,5	Ø10	-	4.000	
99.BG.B15.G	PF-13	NO	82,5	32,5	Ø13	-	4.000	



Radiale - Portafresa
Radial - Shell End Milling Cutter

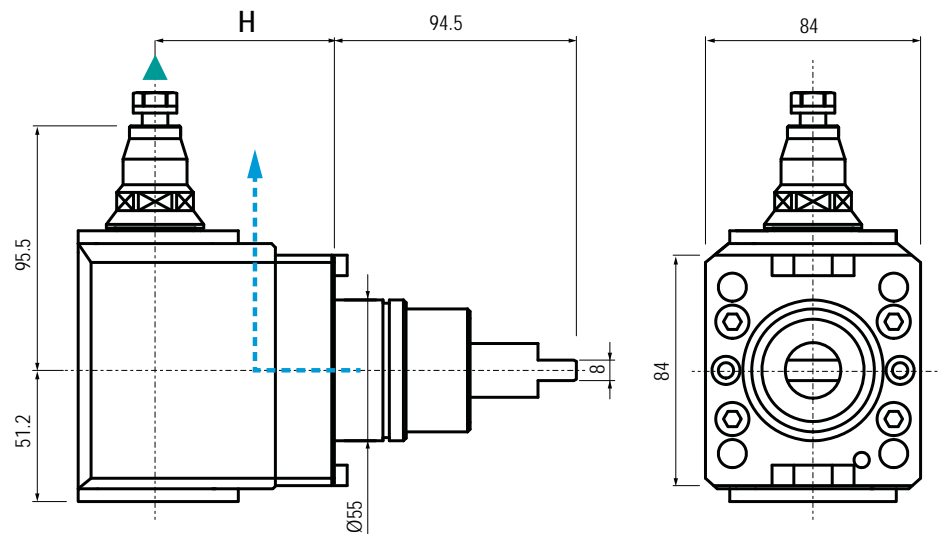


Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle



RATIO
1:1 / 2:1

Cod.	PF	Int Cool	H	l2	l3	h1	h2	Nm	Rpm	τ	
99.BG.B17.A	PF-16	NO	70	41,5	27	96	51,25	47	4.000	-	
99.BG.B17.B	PF-16	NO	100	41,5	27	96	51,25	47	4.000	-	
99.BG.B17.C	PF-22	NO	70	47,5	31	102	51,25	47	4.000	-	
99.BG.B17.D	PF-22	NO	100	47,5	31	102	51,25	47	4.000	-	
99.BG.B17.E	PF-27	NO	70	49,5	33	104	51,25	47	4.000	-	
99.BG.B17.F	PF-27	NO	100	49,5	33	104	51,25	47	4.000	-	
99.BG.B17.G	PF-16	NO	70	41,5	27	96	51,25	-	2.000	2:1	
99.BG.B17.H	PF-22	NO	70	41,5	31	96	51,25	-	2.000	2:1	
99.BG.B17.I	PF-27	NO	70	41,5	33	96	51,25	-	2.000	2:1	

B501-Y / B301 / B470 / B455 / B510 / B550 / B650 / B658 / 1200


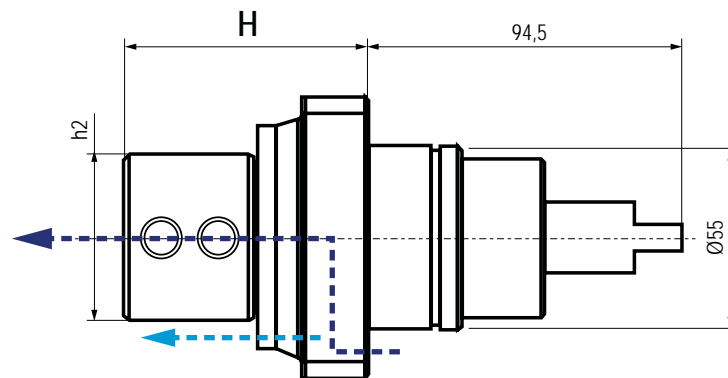
Radiale - Portafresa a Disco

Radial - Shell End Milling Cutter

 Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle

 RATIO
1:1

Cod.	PF	Int Cool	H	Ø	Nm	Rpm	
99.BG.B17.L	PF-10	NO	70	Ø10	-	4.000	
99.BG.B17.M	PF-13	NO	70	Ø13	-	4.000	
99.BG.B17.N	PF-10	NO	100	Ø10	-	4.000	
99.BG.B17.O	PF-13	NO	100	Ø13	-	4.000	

5


Assiale - Portafresa Weldon

Axial - Weldon Shell End Milling Cutter
20 BAR

 RATIO
1:1

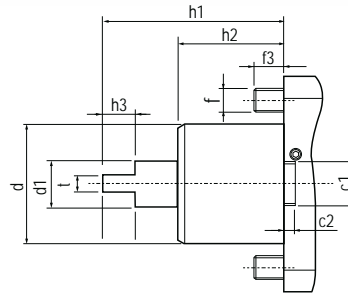
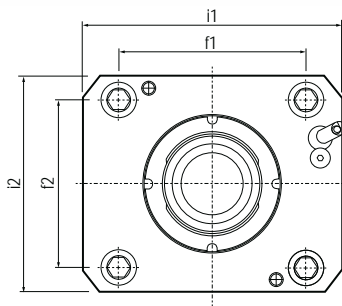
Cod.	Output	Int Cool	H	h2	Nm	Rpm	
99.BG.B19.A •	WE25	√	73	50	-	4.000	
99.BG.B19.B •	WE20	√	68	45	-	4.000	
99.BG.B19.C •	WE16	√	61	41	-	4.000	

DMG / MORI SEKI MOTORIZZATI - DRIVEN TOOLS

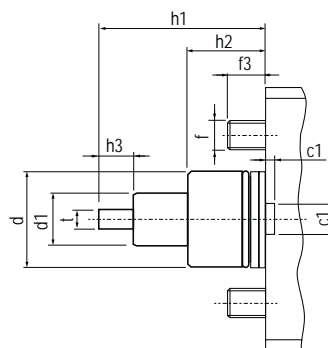
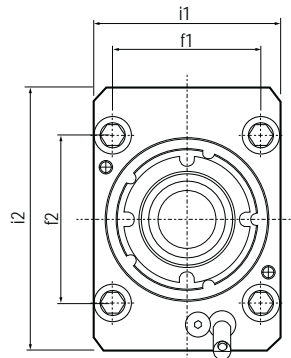


DOTAZIONE STANDARD STANDARD EQUIPMENT

Chiave esagonale bloccaggio albero /
ugello refrigerazione / vite bloccaggio
ugello / viti bloccaggio motorizzato /
O-ring - Hexagonal tool shaft lock
wrench / cooling nozzle / nozzle lock
screws / driven tool locking screws / O-ring

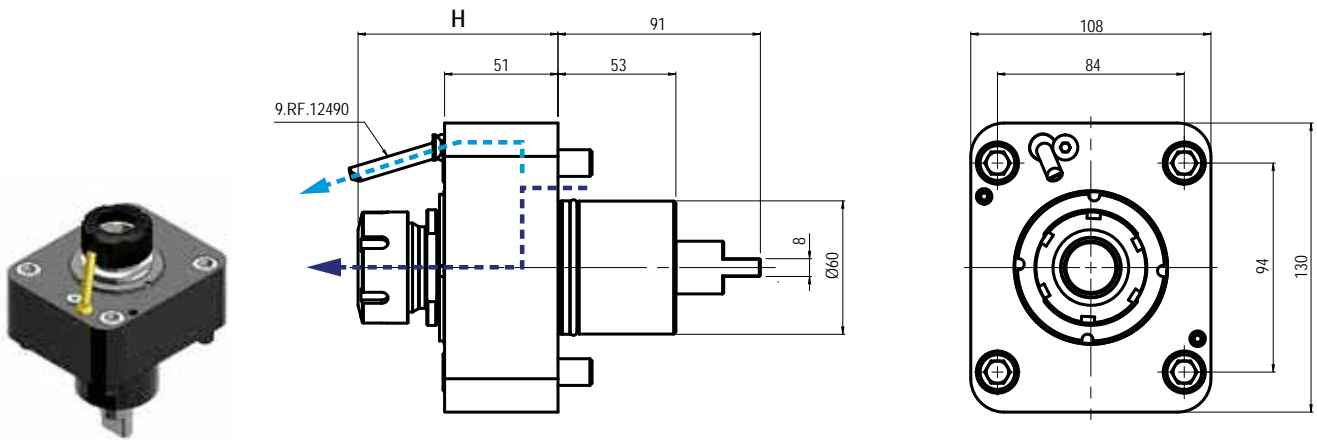


	c1	c2	d	d1	f	f1	f2	f3	h1	h2	h3	i1	i2	t		
NL	20	5,5	60	23,7	M12	94	84	15	91	53	16,5	130	108	8		

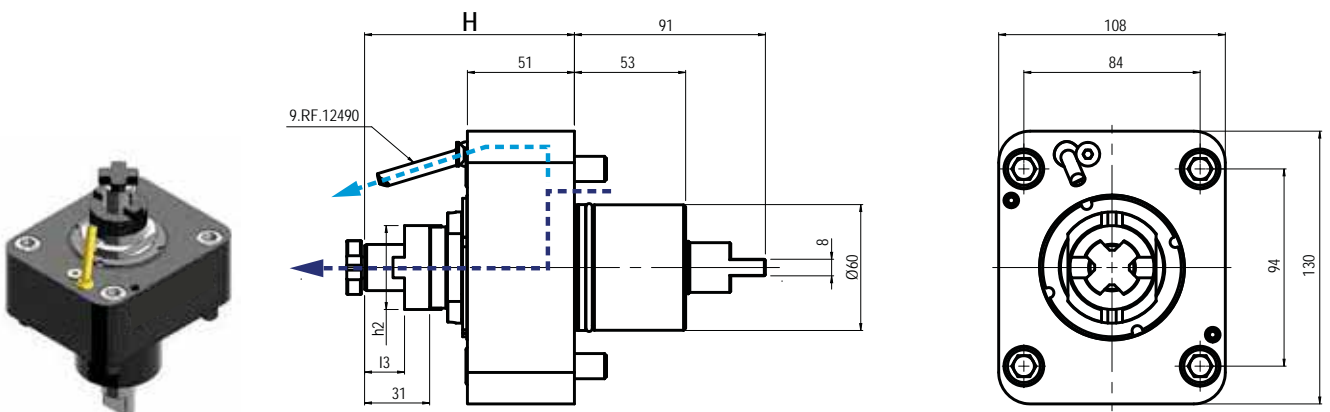


	c1	c2	d	d1	f	f1	f2	f3	h1	h2	h3	i1	i2	t		
NZ	12	4,5	40	22	10	70	62	16	69	32	14,4	78	110	8		

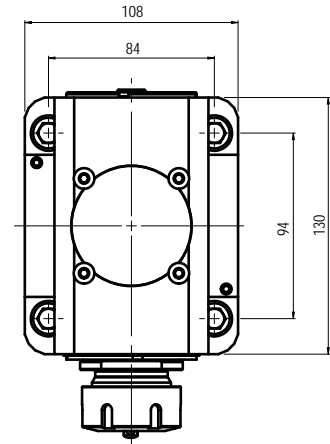
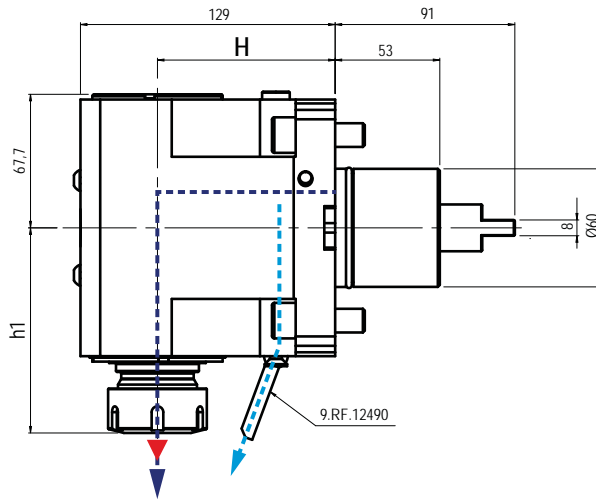
N.B: Verifica compatibilità motorizzati a pagina 5.2 - 5.3 - Check the driven tools compatibility at page 5.2 - 5.3

NL 1500 - 2000 - 3000

 Assiale - Portapinza
 Axial - Collet Chuck

Cod.	Output	Int Cool	H	Nm	Rpm	p kw	
99.MS.A59	ER-32 - Ø2÷20	NO	Max 89,9	60	10.000	10	
99.MS.A62	ER-40 - Ø3÷30	NO	Max 92	60	10.000	10	
99.MS.A60 •	ER-32 - Ø2÷20	√	Max 89,9	60	10.000	10	
99.MS.A63 •	ER-40 - Ø3÷30	√	Max 92	60	10.000	10	

5

 Assiale - Portafresa
 Axial - Shell End Milling Cutter

Cod.	Output	Int Cool	H	l3	h2	Nm	Rpm	p kw	
99.MS.A67	PF-22	NO	100	19	Ø40	60	10.000	10	
99.MS.A68	PF-27	NO	100	21	Ø48	60	10.000	10	

NL 1500 - 2000 - 3000


Radiale - Portapinza

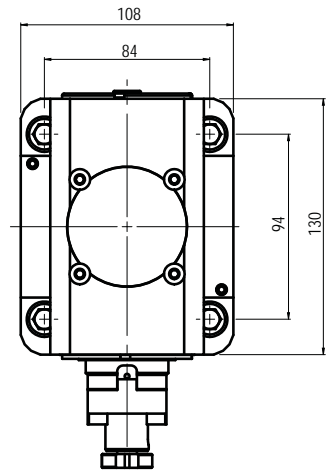
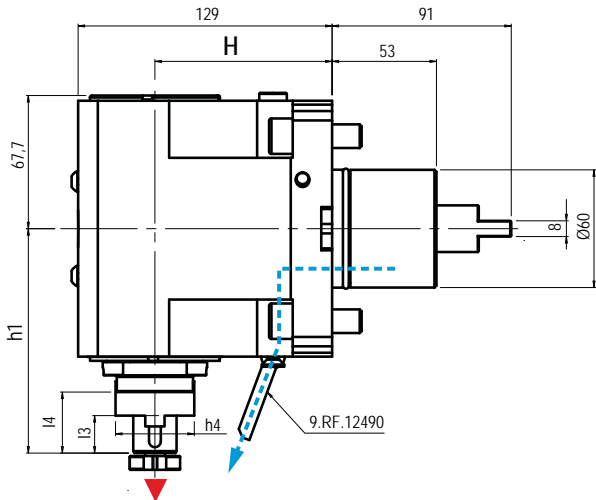
Radial - Collet Chuck
80 BAR

 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle


RATIO

1:1

Cod.	Output	Int Cool	H	h1	Nm	Rpm	p kw	
99.MS.A72	ER-32 - Ø2÷20	NO	90	103,9	60	10.000	10	
99.MS.A76	ER-40 - Ø3÷30	NO	90	106	60	10.000	10	
99.MS.A73 •	ER-32 - Ø2÷20	✓	90	103,9	60	10.000	10	
99.MS.A77 •	ER-40 - Ø3÷30	✓	90	106	60	10.000	10	



Radiale - Portafresa

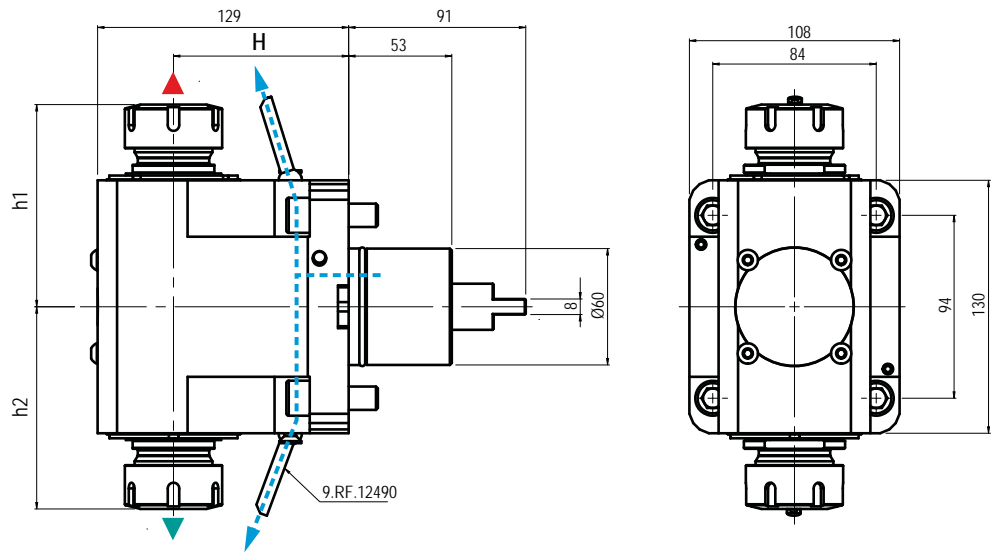
Radial - Shell End Milling Cutter

 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle


RATIO

1:1

Cod.	Output	Int Cool	H	h1	h4	l3	l4	Nm	Rpm	p kw	
99.MS.A69	PF-22	NO	90	114	Ø40	19	31	60	10.000	10	
99.MS.A70	PF-27	NO	90	114	Ø48	21	33	60	10.000	10	

NL 1500 - 2000 - 3000


Doppio - Portapinza
Double - Collet Chuck



Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle

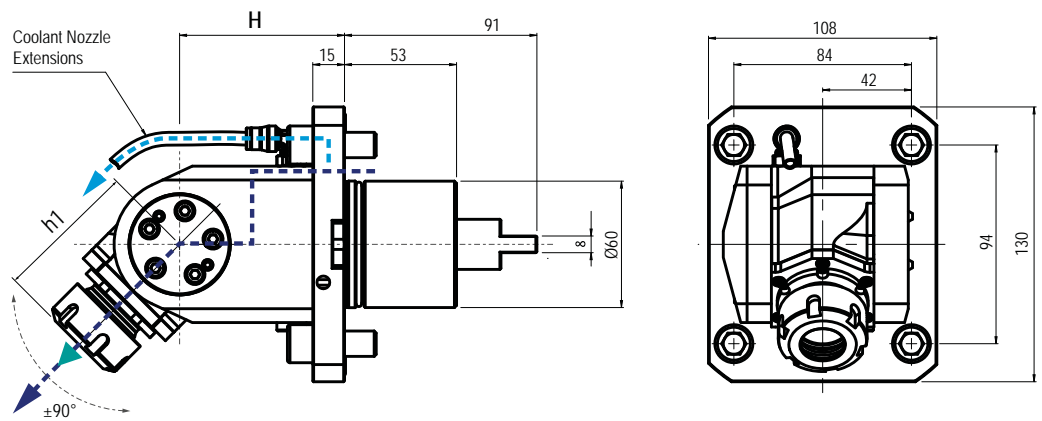


Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle



RATIO
1:1

Cod.	Output	Int Cool	H	h1	h2	Nm	Rpm	p kw	
99.MS.A84	ER-32-32 - Ø2÷20	NO	90	Max. 103,9	Max. 103,9	60	10.000	10	
99.MS.A85	ER-40-40 - Ø3÷30	NO	90	Max. 106	Max. 106	60	10.000	10	

5


Orientabile - Portapinza
Adjustable Angle - Collet Chuck

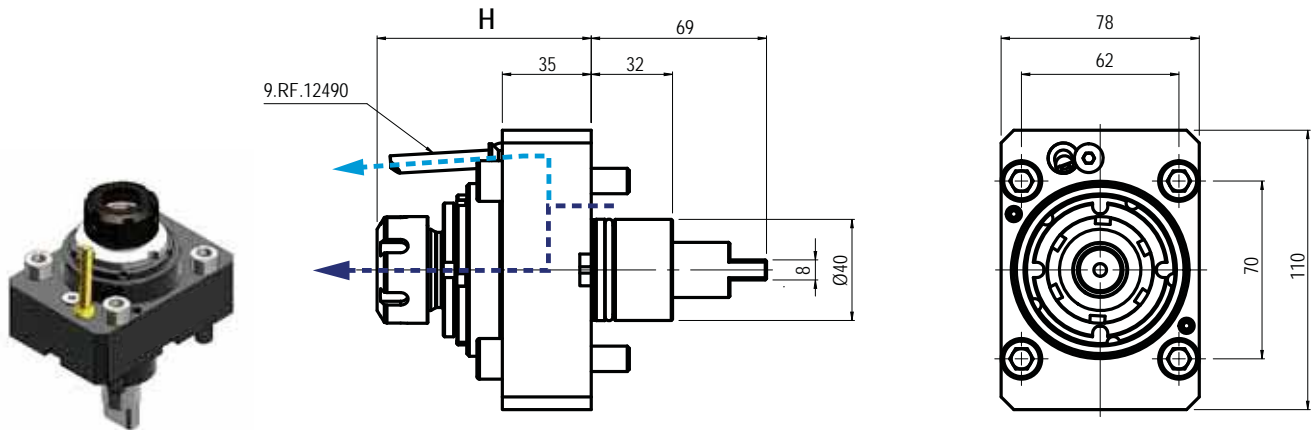


Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle



RATIO
1:1

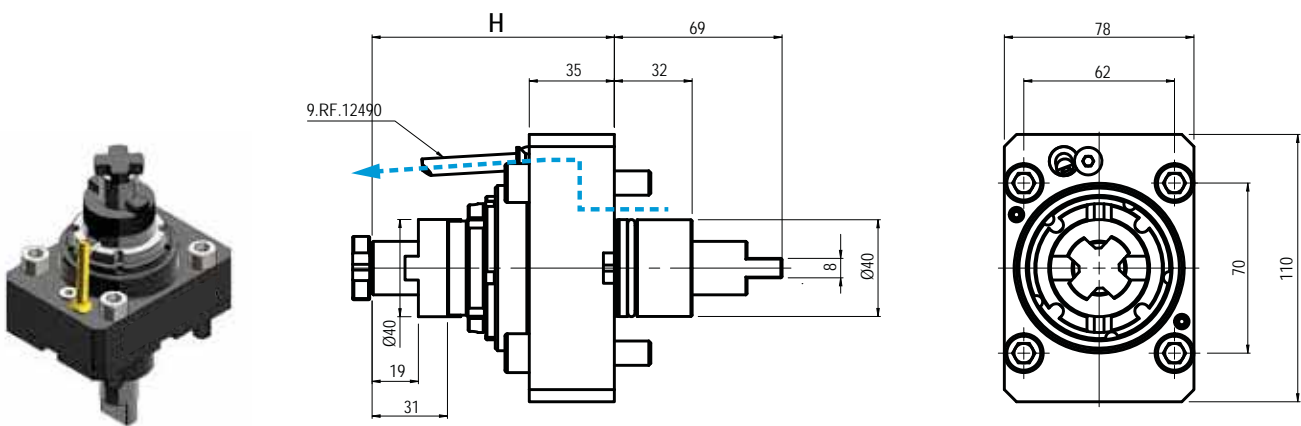
Cod.	Output	Int Cool	H	h1	Nm	Rpm	p kw	
99.MS.A86	ER-25 - Ø1÷16	NO	78	Max. 67,2	25	10.000	4	
99.MS.A87 •	ER-25 - Ø1÷16	√	78	Max. 67,2	25	10.000	4	

NZ 1500 - 2000 - 3100 - 3150 - 3200

 Assiale - Portapinza
Axial - Collet Chuck

100 BAR

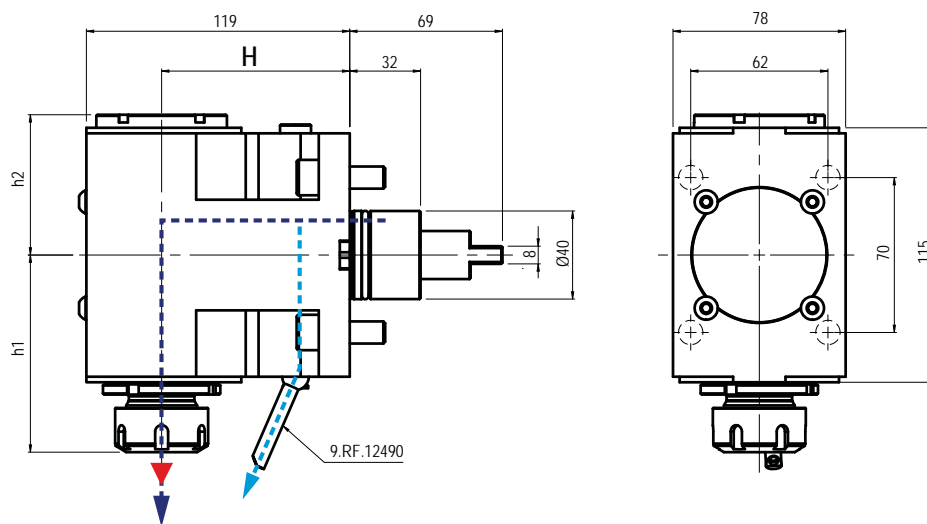
 RATIO
1:1

Cod.	Output	Int Cool	H	Nm	Rpm	p kw	
99.MS.A101	ER-25 - Ø1÷16	NO	84,3	50	12.000	7,5	
99.MS.A103	ER-32 - Ø2÷20	NO	89,2	50	12.000	7,5	
99.MS.A102 •	ER-25 - Ø1÷16	√	84,3	50	12.000	7,5	
99.MS.A104 •	ER-32 - Ø2÷20	√	89,2	50	12.000	7,5	


 Assiale - Portafresa
Axial - Shell End Milling Cutter

 RATIO
1:1

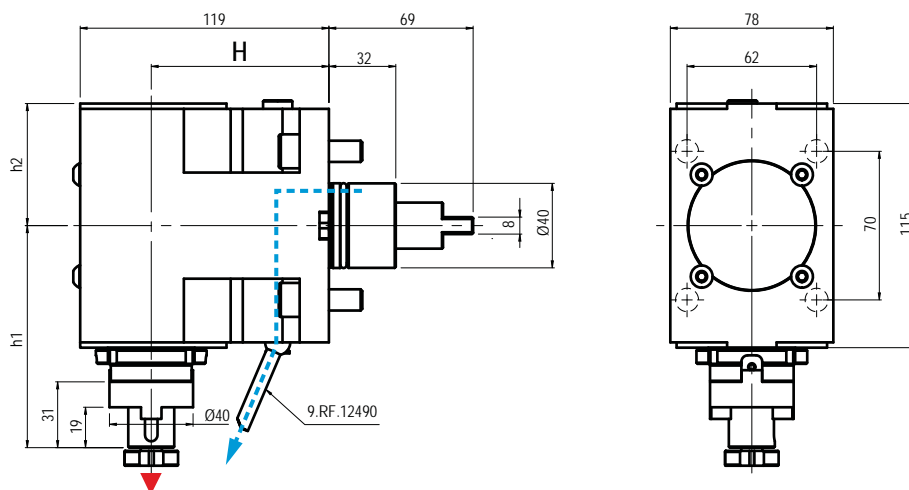
Cod.	Output	Int Cool	H	Nm	Rpm	p kw	
99.MS.A105	PF-22	NO	100	50	12.000	7,5	

NZ 1500 - 2000 - 3100 - 3150 - 3200

 Radiale - Portapinza
Radial - Collet Chuck
100 BAR

 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO 1:1

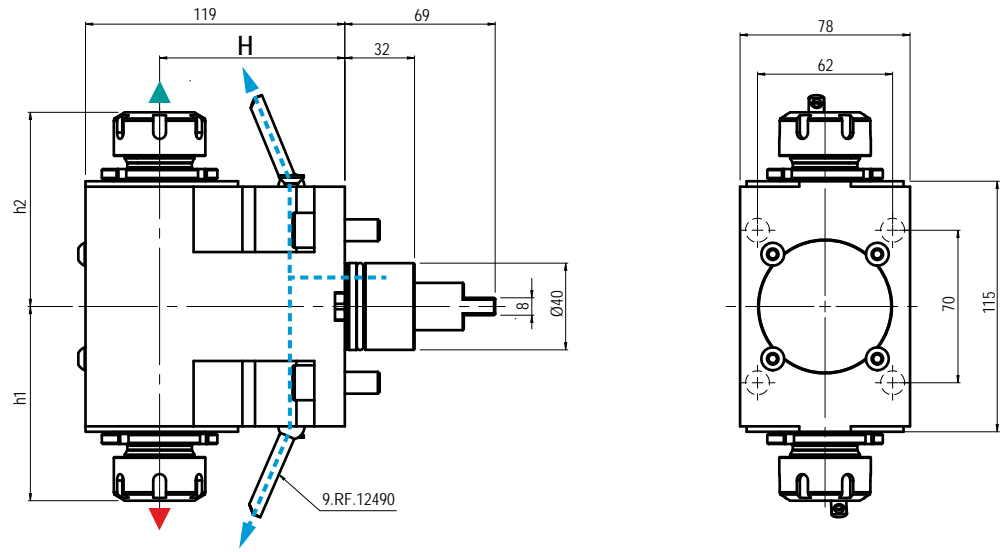
Cod.	Output	Int Cool	H	h1	h2	Nm	Rpm	p kw	
99.MS.A108	ER-32 - Ø2÷20	NO	85	Max 94	57,5	50	12.000	7,5	
99.MS.A109 •	ER-32 - Ø2÷20	√	85	Max 94	63,5	50	12.000	7,5	
99.MS.A106	ER-25 - Ø1÷16	NO	85	Max 94	57,5	50	12.000	7,5	
99.MS.A107 •	ER-25 - Ø1÷16	√	85	Max 94	63,5	50	12.000	7,5	

5

 Radiale - Portafresa
Radial - Shell End Milling Cutter

 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO 1:1

Cod.	Output	Int Cool	H	h1	h2	Nm	Rpm	p kw	
99.MS.A110	PF-22	NO	85	104,6	57,5	50	12.000	7,5	

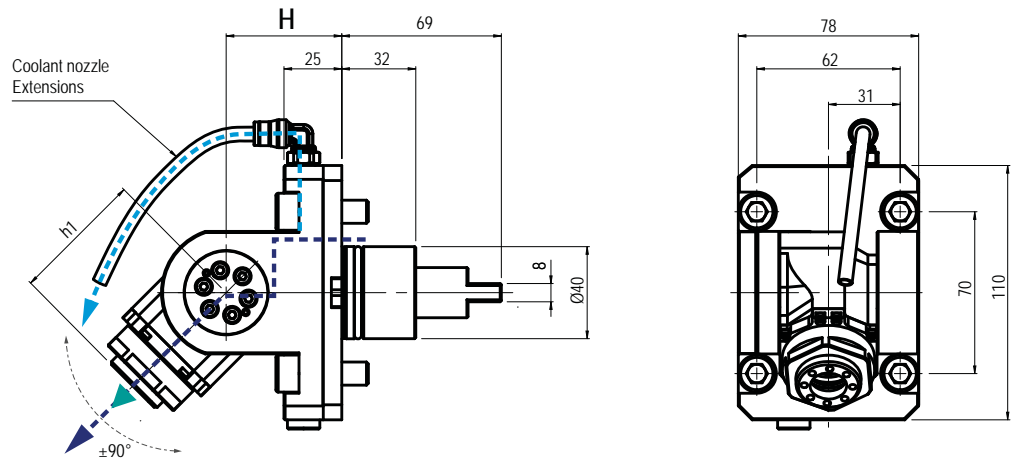
NZ 1500 - 2000 - 3100 - 3150 - 3200


Doppio - Portapinza
 Double - Collet Chuck

Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle
 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:1

Cod.	Output	Int Cool	H	h1	h2	Nm	Rpm	p kw	
99.MS.A115	ER-25-25 - Ø1÷16	NO	85	Max 89	Max 89	50	12.000	7,5	
99.MS.A114	ER-32-32 - Ø2÷20	NO	85	Max 94	Max 94	50	12.000	7,5	



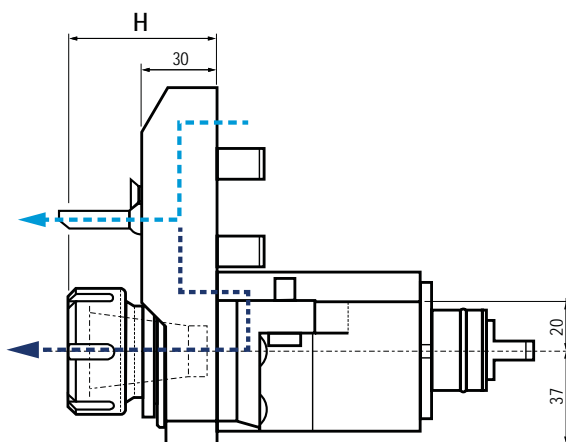
Orientabile - Portapinza
 Adjustable Angle - Collet Chuck

100 BAR

Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle

RATIO
1:1

Cod.	Output	Int Cool	H	h1	Nm	Rpm	p kw	
99.MS.A118	ER-20 - Ø1÷13	NO	50	57,1	17	12.000	5,5	
99.MS.A119 •	ER-20 - Ø1÷13	√	50	57,1	17	12.000	5,5	

SL - ZL - DL 200 - 250MC / SC 203-204-205 / SC 250Y


Il disegno potrebbe subire variazioni nel tempo
 The drawings are subject to change without prior notice

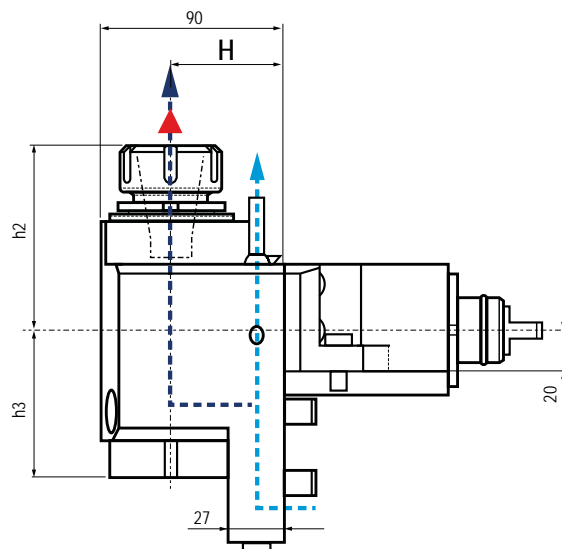
Assiale - Portapinza
Axial - Collet Chuck

80 BAR

RATIO 1:1

Cod.	Output	Int Cool	H	Nm	Rpm	p kw	
99.MS.A28	ER-32 - Ø2÷20	NO	55,5÷60	70	6.000	10	
99.MS.A29 •	ER-32 - Ø2÷20	√	55,5÷60	70	6.000	10	

5



Il disegno potrebbe subire variazioni nel tempo
 The drawings are subject to change without prior notice

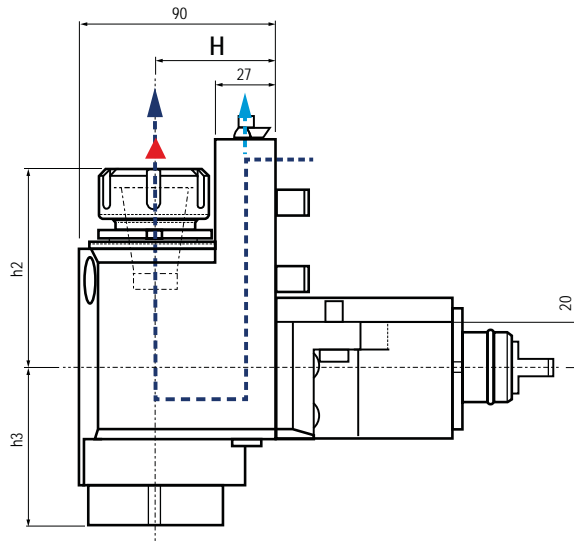
Radiale - Portapinza
Radial - Collet Chuck

80 BAR

Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO 1:1

Cod.	Output	Int Cool	H	h2	h3	Nm	Rpm	p kw	
99.MS.A33	ER-32 - Ø2÷20	NO	55	89÷93,5	57	70	6.000	10	
99.MS.A34 •	ER-32 - Ø2÷20	√	55	89÷93,5	72	70	6.000	10	

SL - ZL - DL 200 - 250MC / SC 203-204-205 / SC 250Y


Il disegno potrebbe subire variazioni nel tempo
 The drawings are subject to change without prior notice

Radiale Rovesciato - Portapinza
Radial Upside-Down - Collet Chuck

80 BAR

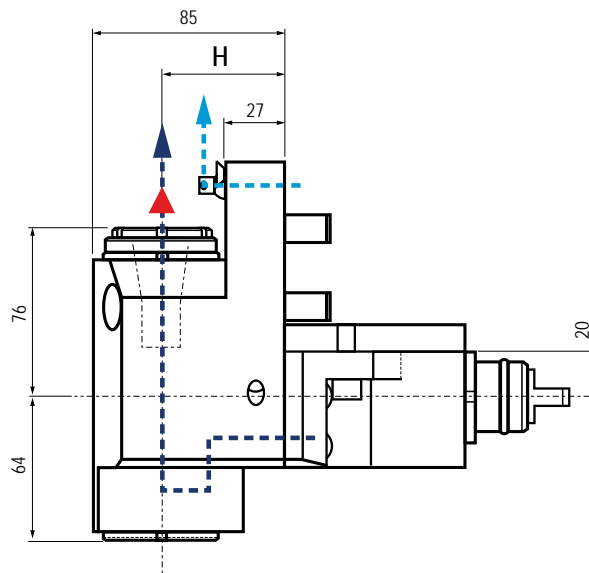


Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle



RATIO
1:1

Cod.	Output	Int Cool	H	h2	h3	Nm	Rpm	p kw	
99.MS.A41	ER-32 - Ø2÷20	NO	55	89÷93,5	57	70	6.000	10	
99.MS.A42 •	ER-32 - Ø2÷20	√	55	89÷93,5	67	70	6.000	10	



Il disegno potrebbe subire variazioni nel tempo
 The drawings are subject to change without prior notice

Radiale Rovesciato - Portapinza
Radial Upside-Down - Collet Chuck

80 BAR

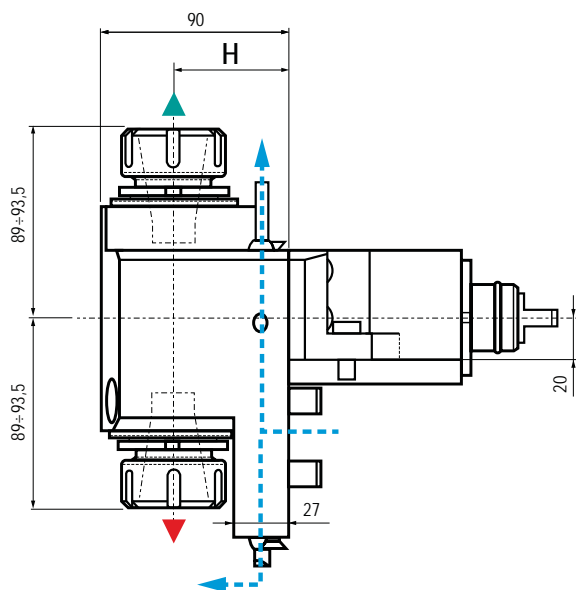


Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle



RATIO
1:4

Cod.	Output	Int Cool	H	Nm	Rpm	p kw	
99.MS.A43	ER-16 - EF Ø1÷10	√	55	8	24.000	4	

SL - ZL - DL 200 - 250MC / SC 203-204-205 / SC 250Y


Il disegno potrebbe subire variazioni nel tempo
 The drawings are subject to change without prior notice

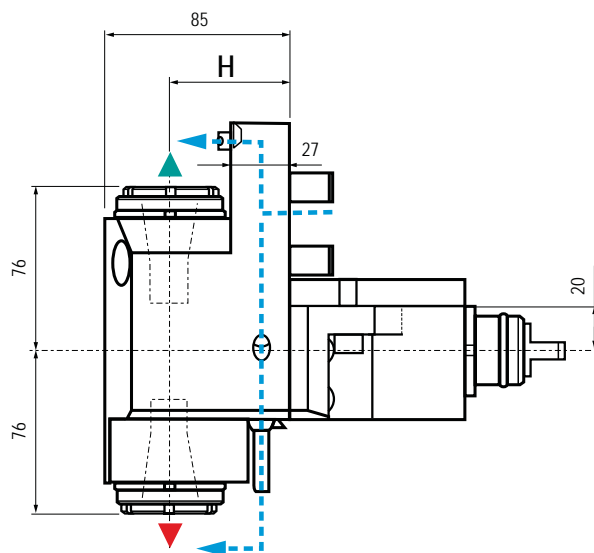
Doppio - Portapinza
Double - Collet Chuck

- Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle
- Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:1

Cod.	Output	Int Cool	H	Nm	Rpm	p kw	
99.MS.A49	ER 32-32 - Ø2±20	NO	55	70	6.000	10	

5



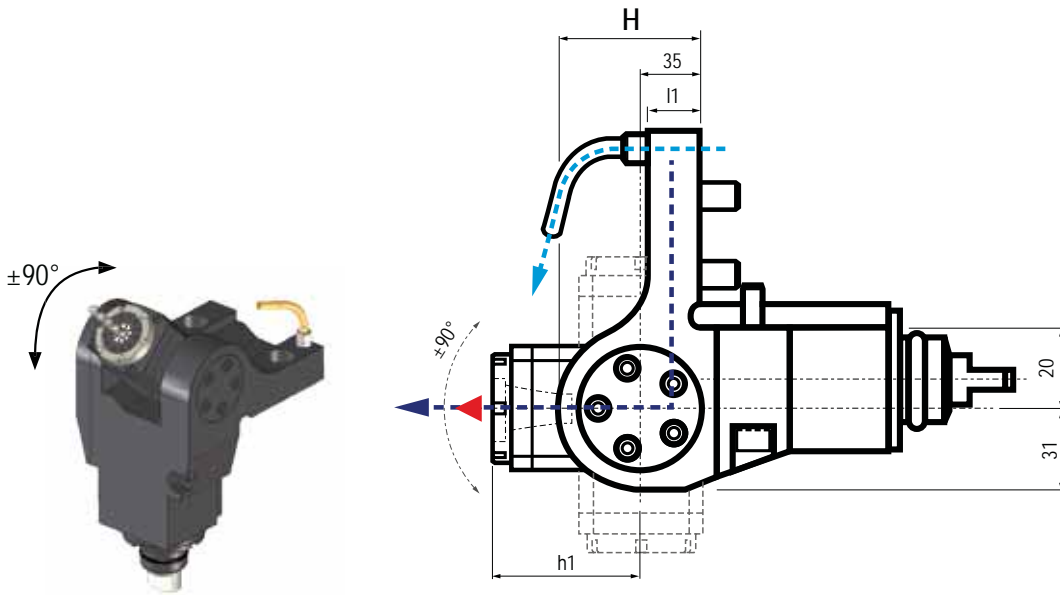
Il disegno potrebbe subire variazioni nel tempo
 The drawings are subject to change without prior notice

Doppio - Portapinza
Double - Collet Chuck

- Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle
- Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:4

Cod.	Output	Int Cool	H	Nm	Rpm	p kw	
99.MS.A51	ER 16-16 EF - Ø1±10	NO	55	8	24.000	4	

SL - ZL - DL 200 - 250MC / SC 203-204-205 / SC 250Y


Il disegno potrebbe subire variazioni nel tempo
 The drawings are subject to change without prior notice

Orientabile - Portapinza
 Adjustable Angle - Collet Chuck

80 BAR

Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

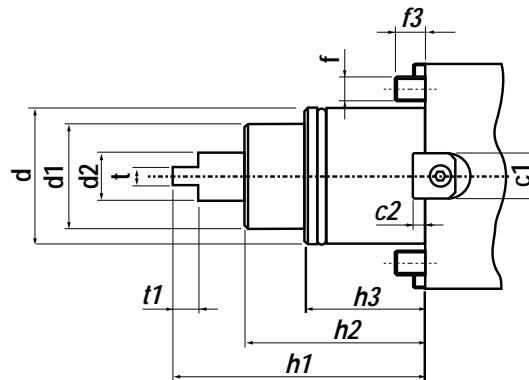
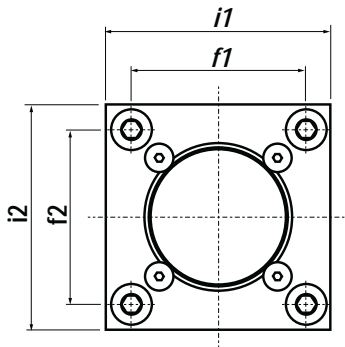
RATIO
1:1

Cod.	Output	Int Cool	H	l5	Nm	Rpm	p kw	
99.MS.A55	ER-20 - EF Ø1÷13	NO	66	56	25	6.000	6	
99.MS.A56 •	ER-20 - EF Ø1÷13	√	66	56	25	6.000	6	

COMPATIBILI CON:
COMPATIBLE WITH:

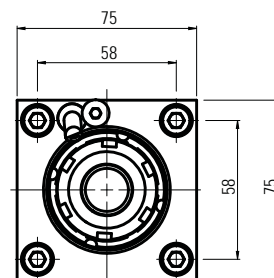
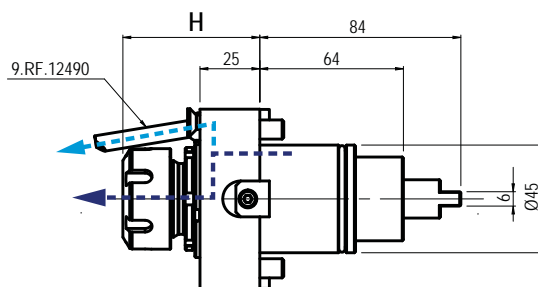
- HARDINGE
- SAMSUNG
- HWACHEON
- HYUNDAI WIA
- VICTOR

DOOSAN MOTORIZZATI - DRIVEN TOOLS



	c1	c2	d	d1	d2	f	f1	f2	f3	h1	h2	h3	i1	i2	t	t2
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
BMT65	18	5	65	45	18	M12	70	73	15	112	83	32	94	94	10	14
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

N.B: Verifica compatibilità motorizzati a pagina 5.2 - 5.3 - Check the driven tools compatibility at page 5.2 - 5.3

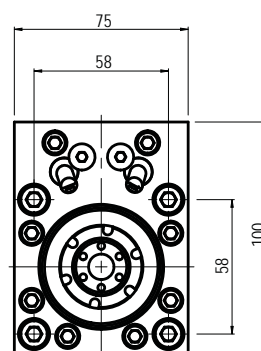
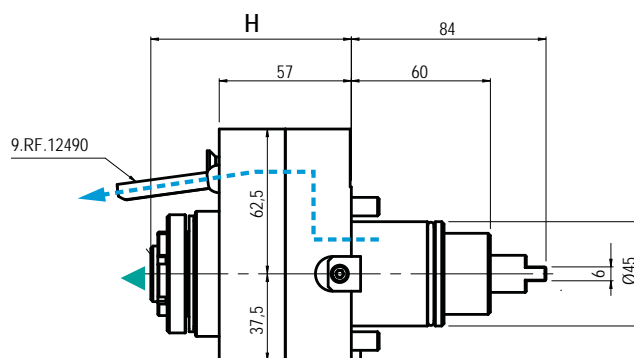


Assiale - Portapinza
Axial - Collet Chuck

80 BAR

RATIO
1:1

Cod.	Output	Int Cool	H	Nm	Rpm	p kw	
99.DS.A03	ER-25 - Ø1÷16	NO	Max 57,2	35	8.000	6	
99.DS.A04 •	ER-25 - Ø1÷16	√	Max 57,2	35	8.000	6	

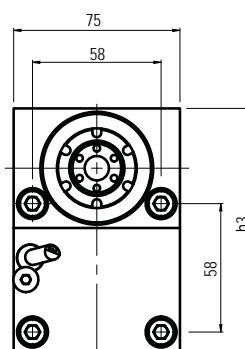
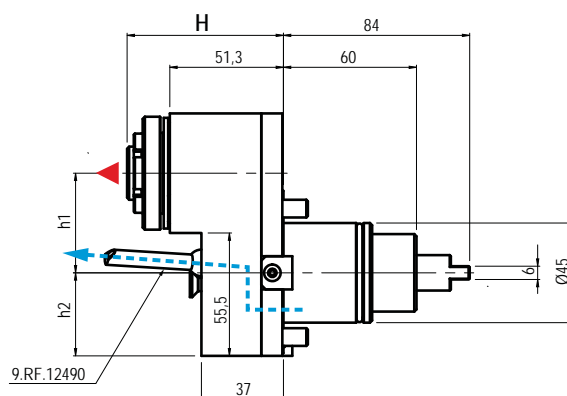


Assiale - Portapinza
Axial - Collet Chuck

Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle

RATIO
1:4

Cod.	Output	Int Cool	H	Nm	Rpm	p kw	
99.DS.A05	ER-16 EF - Ø1÷10	NO	Max 86,5	12	32.000	3	

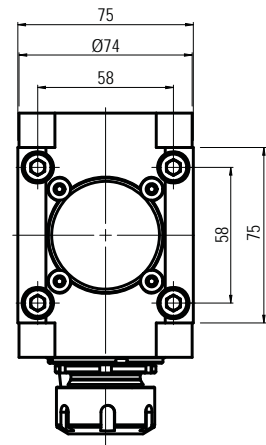
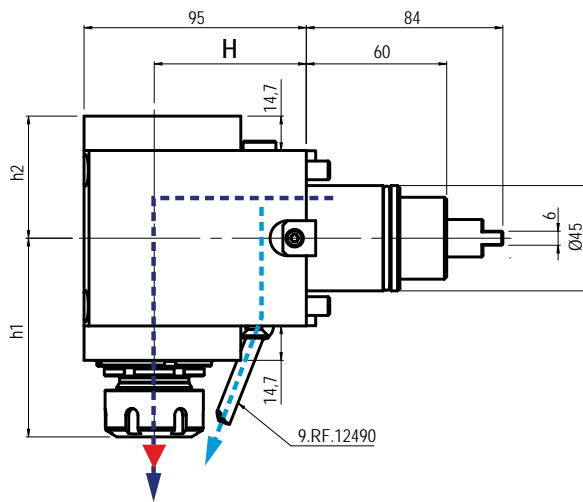


Disassato - Portapinza
Offset Axis - Collet Chuck

Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:2

Cod.	Output	Int Cool	H	h1	h2	h3	Nm	Rpm	p kw	
99.DS.A06	ER-16 EF - Ø1÷10	NO	70,5	45	37,5	109,5	15	16.000	4	



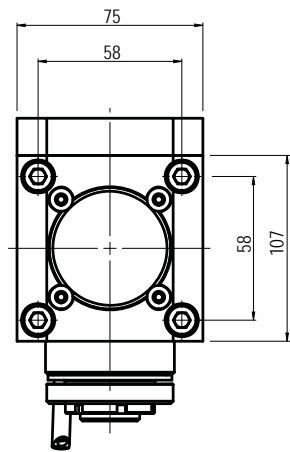
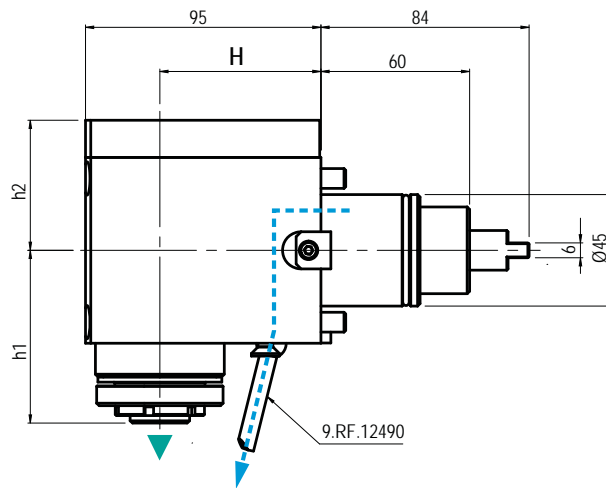
Radiale - Portapinza
Radial - Collet Chuck

80 BAR

▼ Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:1

Cod.	Output	Int Cool.	H	h1	h2	Nm	Rpm	p kw	
99.DS.A07	ER-25 - Ø1÷16	NO	65	Max 84,9	52,2	35	8.000	6	
99.DS.A08 •	ER-25 - Ø1÷16	√	65	Max 84,9	52,2	35	8.000	6	

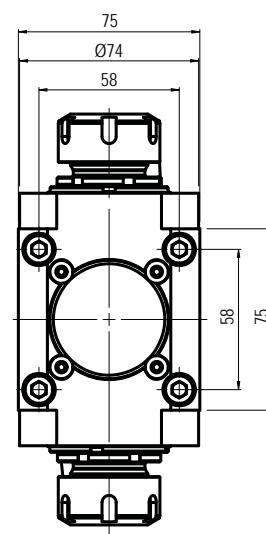
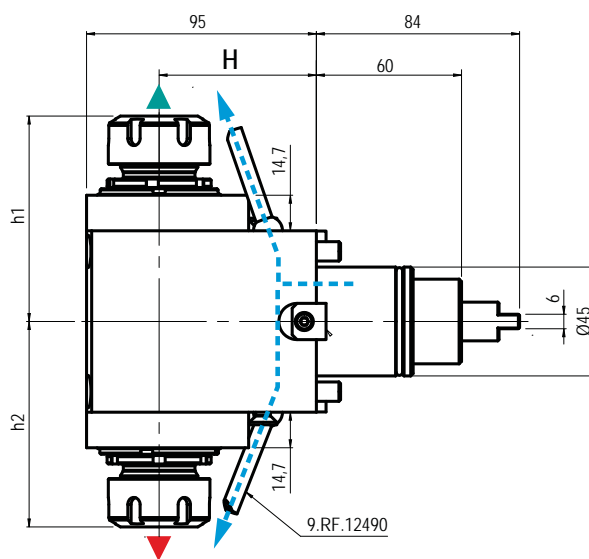


Radiale - Portapinza
Radial - Collet Chuck

▼ Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle

RATIO
1:4 / 1:2

Cod.	Output	Int Cool.	H	h1	h2	Nm	Rpm	p kw	
99.DS.A09	ER-16 EF - Ø1÷10	NO	65	Max 69,7	52,5	12	32.000	3	
99.DS.A10	ER-16 EF - Ø1÷10	NO	65	Max 73,3	54	15	16.000	4	



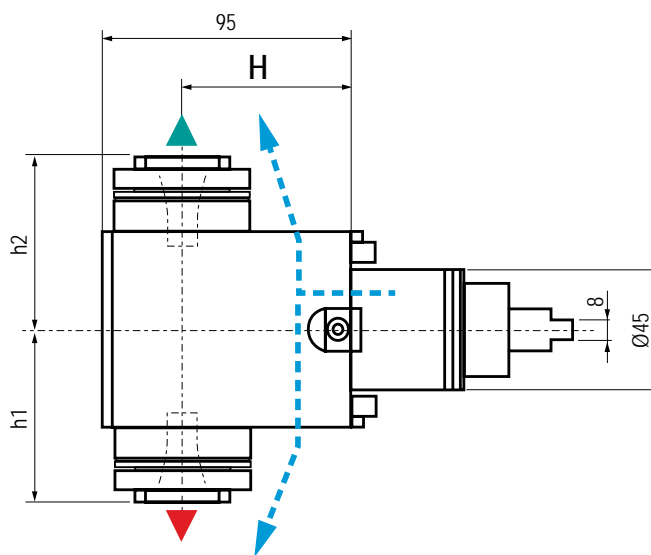
Doppio - Portapinza
 Double - Collet Chuck

Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle
 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:1

Cod.	Output	Int Cool.	H	h1	h2	Nm	Rpm	p kw	
99.DS.A13	ER-25-25 - Ø1±16	NO	65	Max 84,9	Max 84,9	35	8.000	6	

5



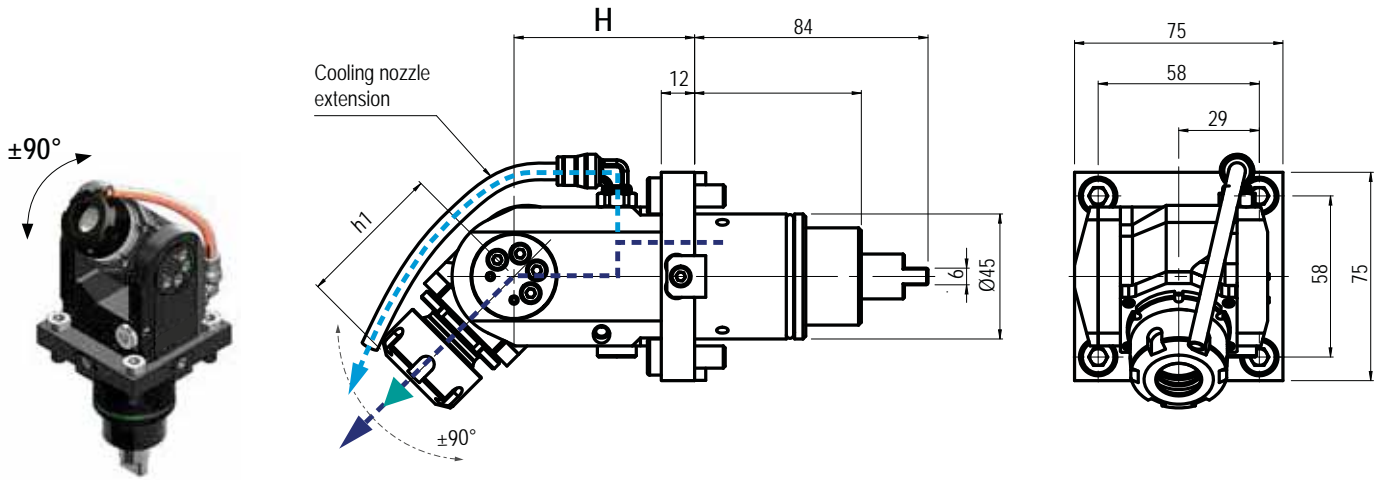
Il disegno potrebbe subire variazioni nel tempo
 The drawings are subject to change without prior notice

Doppio - Portapinza
 Double - Collet Chuck

Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle
 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:4 / 1:2

Cod.	Output	Int Cool.	H	h1	h2	Nm	Rpm	Ratio τ	p kw	
99.DS.A14	ER-16-16 EF - Ø1±10	NO	65	59	59	3	32.000	1:4	3	
99.DS.A15	ER-16-16 EF - Ø1±10	NO	65	72	72	15	16.000	1:2	4	



Orientabile - Portapinza

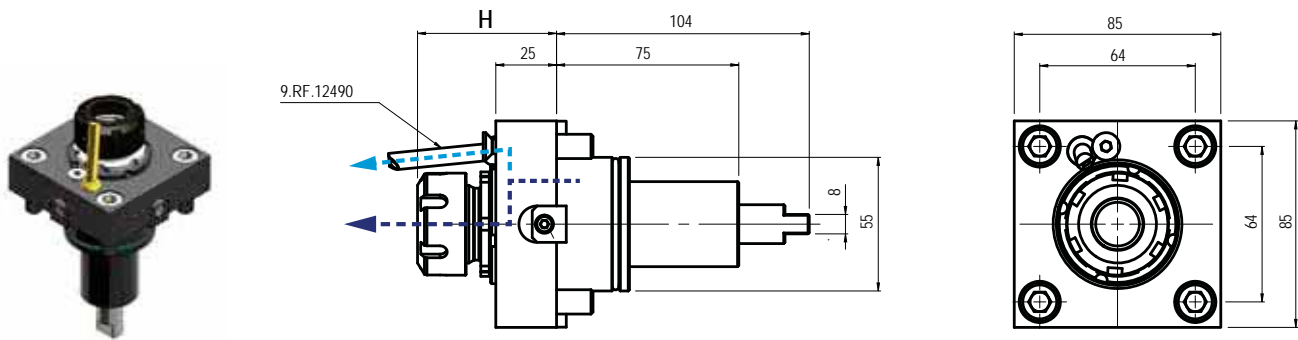
Adjustable Angle - Collet Chuck

80 BAR

 Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle

 RATIO
1:1

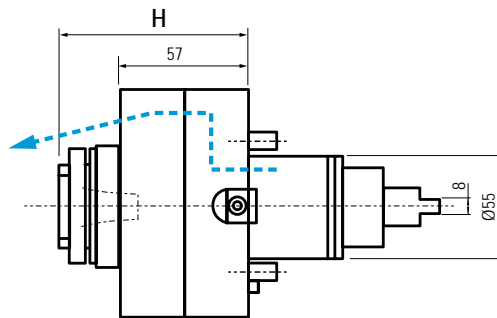
Cod.	Output	Int Cool.	H	h1	Nm	Rpm	p kw	
99.DS.A16	ER-20 - Ø1÷13	NO	65	Max 52,5	15	8.000	3	
99.DS.A17 •	ER-20 - Ø1÷13	√	65	Max 52,5	15	8.000	3	

PUMA 230 - 240 - 280 M-MS

 Assiale - Portapinza
 Axial - Collet Chuck

80 BAR

 RATIO
1:1

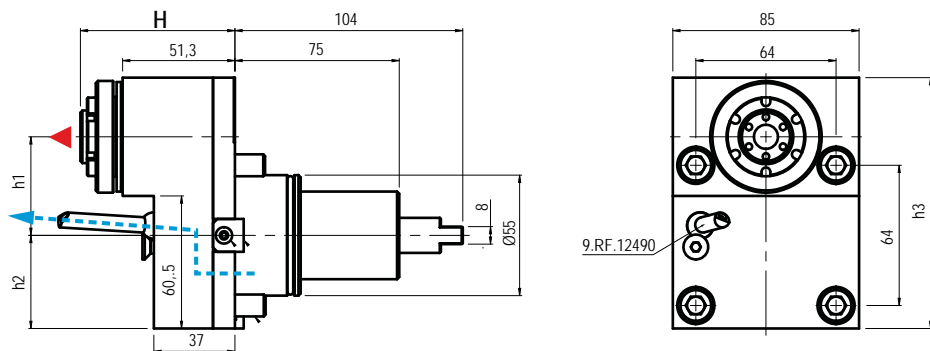
Cod.	Output	Int Cool	H	Nm	Rpm	p kw	
99.DS.A01	ER-25 - Ø1÷16	NO	Max 57,2	40	8.000	8	
99.DS.A02 •	ER-25 - Ø1÷16	Max 52,5	Max 57,2	40	8.000	8	


 Il disegno potrebbe subire
 variazioni nel tempo
 The drawings are subject to
 change without prior notice

 Assiale - Portapinza
 Axial - Collet Chuck

 RATIO
1:4

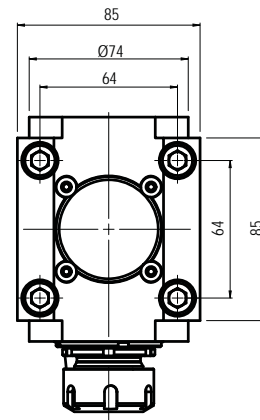
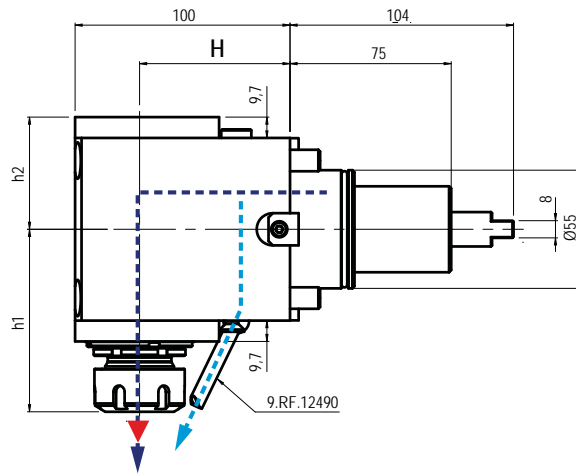
Cod.	Output	Int Cool	H	Nm	Rpm	p kw	
99.DS.A18	ER-16 EF - Ø1÷10	NO	86	4	24.000	3	


 Disassato - Portapinza
 Offset Axis - Collet Chuck

 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

 RATIO
1:2

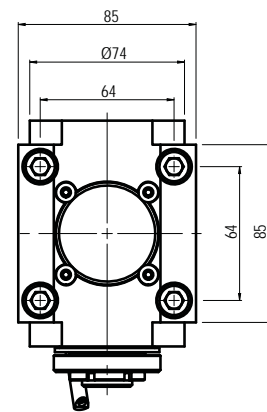
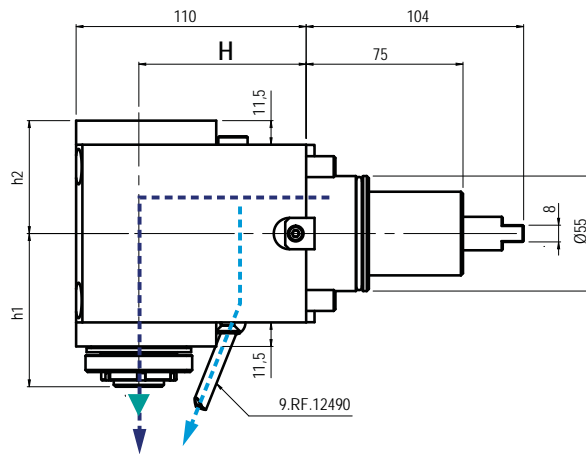
Cod.	Output	Int Cool	H	h1	h2	h3	Nm	Rpm	p kw	
99.DS.A19	ER-16 EF - Ø1÷10	√	70,5	45	42,5	114,5	15	16.000	4	

PUMA 230 - 240 - 280 M-MS

 Radiale - Portapinza
Radial - Collet Chuck

 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

 RATIO
1:1

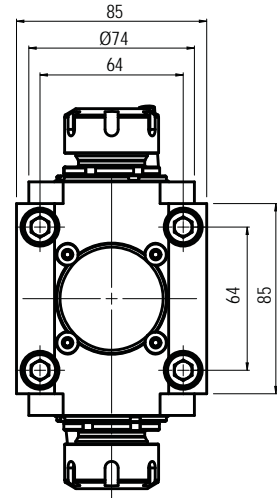
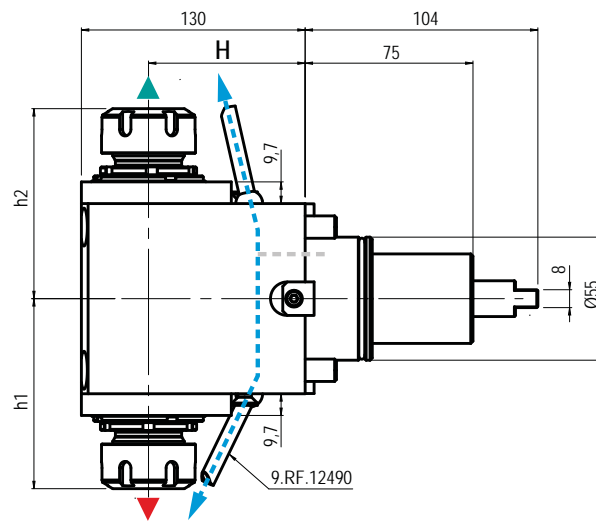
Cod.	Output	Int Cool.	H	h1	h2	Nm	Rpm	p kw	
99.DS.A11	ER-25 - Ø1÷16	NO	70	Max 84,9	52,2	40	8.000	8	
99.DS.A12 •	ER-25 - Ø1÷16	√	70	Max 84,9	52,2	40	8.000	8	


 Radiale - Portapinza
Radial - Collet Chuck

 Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle

 RATIO
1:4 / 1:2

Cod.	Output	Int Cool.	H	h1	h2	Nm	Rpm	p kw	
99.DS.A20	ER-16 EF - Ø1÷10	NO	80	73,3	54	4	24.000	3	
99.DS.A21	ER-16 EF - Ø1÷10	NO	80	73,3	54	15	16.000	4	

PUMA 230 - 240 - 280 M-MS


Doppio - Portapinza
 Double - Collet Chuck



Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle

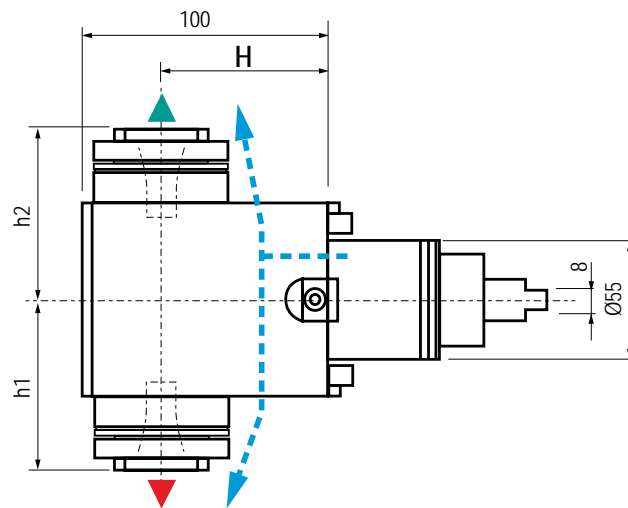


Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle



RATIO
1:1

Cod.	Output	Int Cool.	H	h1	h2	Nm	Rpm	p kw	
99.DS.A24	ER-25-25 - Ø1÷16	NO	70	84,9	84,9	40	8.000	8	

5


Il disegno potrebbe subire variazioni nel tempo
 The drawings are subject to change without prior notice

Doppio - Portapinza
 Double - Collet Chuck



Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle

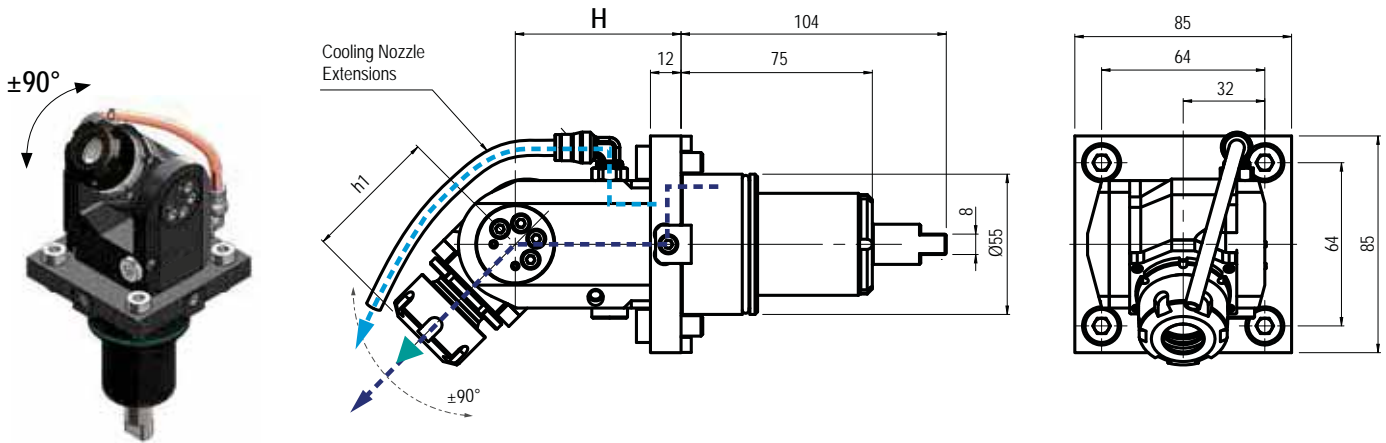


Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

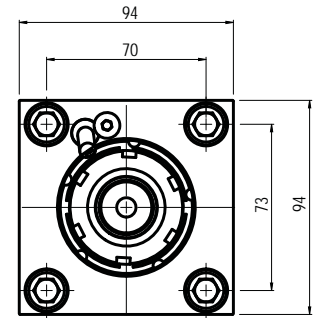
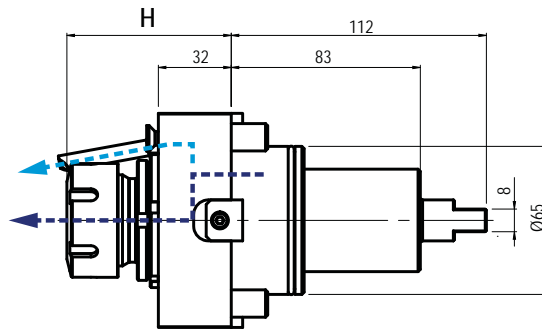


RATIO
1:1

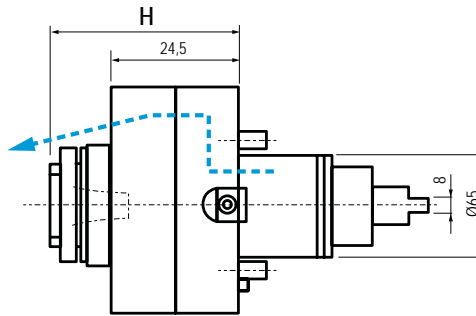
Cod.	Output	Int Cool.	H	h1	h2	Nm	Rpm	p kw	
99.DS.A25	ER-16-16 EF - Ø1÷10	NO	70	72	72	4	24.000	3	
99.DS.A26	ER-16-16 EF - Ø1÷10	NO	70	72	72	15	16.000	4	

PUMA 230 - 240 - 280 M-MS


Orientabile - Portapinza <i>Adjustable Angle - Collet Chuck</i>		80 BAR	Senso di rotazione uguale al mandrino Direction of rotation same as machine spindle		RATIO 1:1		
Cod.	Output	Int Cool.	H	h1	Nm	Rpm	p kw
99.DS.A23	ER-20 - Ø1÷13	NO	65	Max. 52,5	15	8.000	3
99.DS.A66 •	ER-20 - Ø1÷13	√	65	Max. 52,5	15	8.000	3

PUMA 230 - 240 - 280 M-MS / MX2000 / X2500 / VT450 VT450TM

 Assiale - Portapinza
 Axial - Collet Chuck

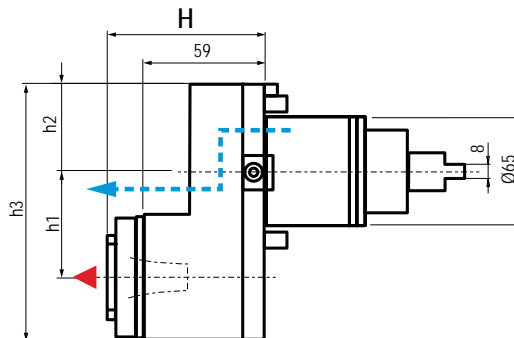
Cod.	Output	Int Cool	H	Nm	Rpm	p kw	
99.DS.A41	ER-32 - Ø2÷20	NO	Max 72,5	70	6.000	10	
99.DS.A42 •	ER-32 - Ø2÷20	√	Max 72,5	70	6.000	10	



Il disegno potrebbe subire variazioni nel tempo
 The drawings are subject to change without prior notice

 Assiale - Portapinza
 Axial - Collet Chuck

Cod.	Output	Int Cool	H	Nm	Rpm	p kw	
99.DS.A27	ER-25 EF- Ø1÷16	NO	39,5	8	24.000	4	

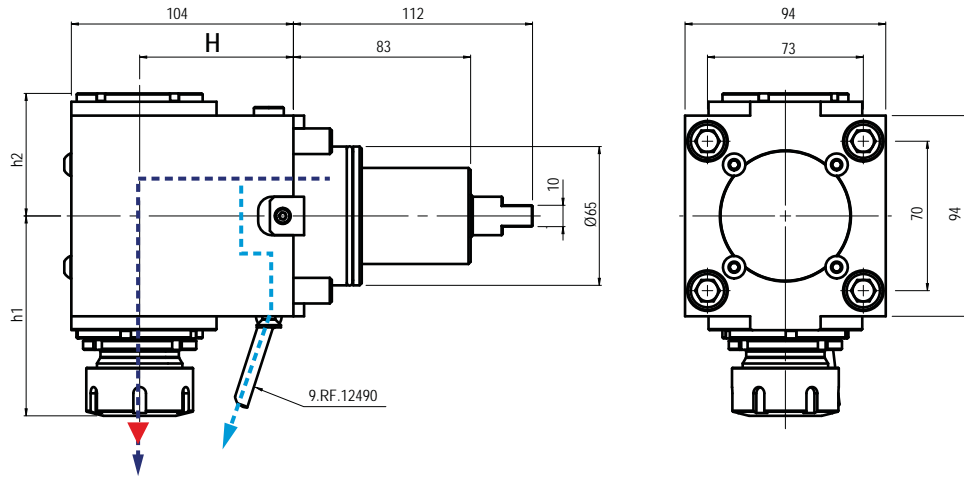


Il disegno potrebbe subire variazioni nel tempo
 The drawings are subject to change without prior notice

 Disassato - Portapinza
 Offset Axis - Collet Chuck

 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

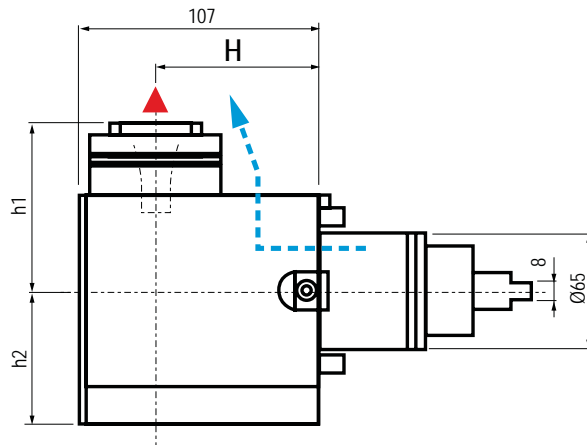
Cod.	Output	Int Cool	H	h1	h2	h3	Nm	Rpm	p kw	
99.DS.A28	ER-25 EF- Ø1÷16	NO	100,5÷105	45	47	122	35	12.000	8	

PUMA 230 - 240 - 280 M-MS / MX2000 / X2500 / VT450 VT450TM

 Radiale - Portapinza
Radial - Collet Chuck
70 BAR

 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:1

Cod.	Output	Int Cool.	H	h1	h2	Nm	Rpm	p kw	
99.DS.A51	ER-32 - Ø2÷20	NO	72	Max 93,6	Max 57,4	70	6.000	10	
99.DS.A52 •	ER-32 - Ø2÷20	√	72	Max 93,6	Max 57,4	70	6.000	10	

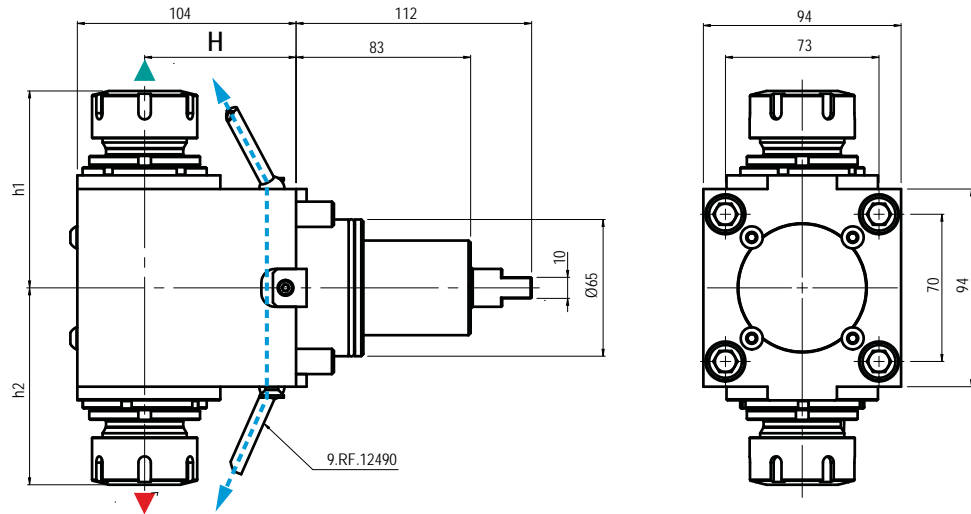

 Il disegno potrebbe subire
 variazioni nel tempo
 The drawings are subject to
 change without prior notice

 Radiale - Portapinza
Radial - Collet Chuck

 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:4 / 1:2

Cod.	Output	Int Cool	H	h1	h2	h3	Nm	Rpm	p kw	
99.DS.A29	ER-25 EF- Ø1÷16	NO	72	76	65	36	8	24.000	4	
99.DS.A30	ER-25 EF- Ø1÷16	NO	72	93,5÷98	67	46	35	12.000	8	

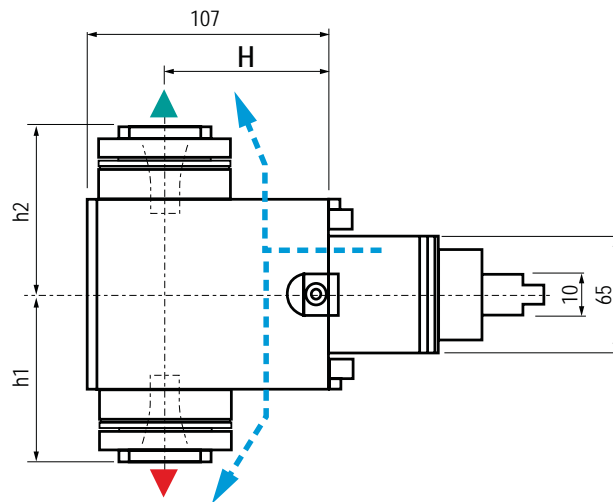
PUMA 300M - MS - TT2000 / TT2500 / MX2000 / X2500 / VT450 VT450TM


Doppio - Portapinza
 Double - Collet Chuck

- Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle
- Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:1

Cod.	Output	Int Cool.	H	h1	h2	Nm	Rpm	p kw	
99.DS.A31	ER-32 - Ø2÷20	NO	72	Max 93,6	Max 93,6	70	6.000	10	

5


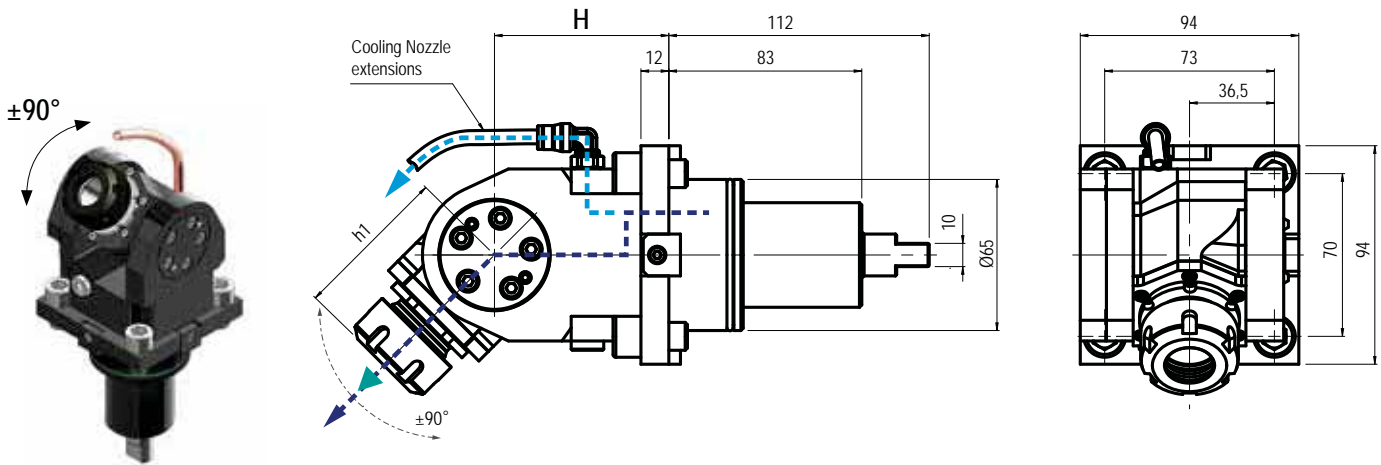
Il disegno potrebbe subire
 variazioni nel tempo
 The drawings are subject to
 change without prior notice

Doppio - Portapinza
 Double - Collet Chuck

- Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle
- Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:4 / 1:2

Cod.	Output	Int Cool.	H	h1	h2	Nm	Rpm	τ	p kw	
99.DS.A32	ER-25 EF- Ø1÷16	NO	72	77	77	8	24.000	1:4	4	
99.DS.A33	ER-25 EF- Ø1÷16	NO	72	93,5÷98	93,5÷98	35	12.000	1:2	8	

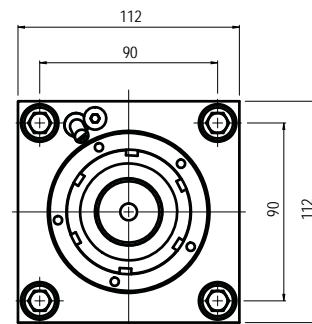
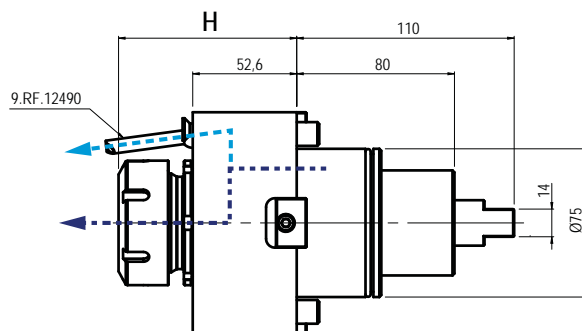
PUMA 300M - MS - TT2000 / TT2500 / MX2000 / X2500 / VT450 VT450TM

 Orientabile - Portapinza
 Adjustable Angle - Collet Chuck

70 BAR

 Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle

RATIO
1:1

Cod.	Output	Int Cool.	H	h1	Nm	Rpm	p kw	
99.DS.A64	ER-25 - Ø1÷16	NO	75	Max 67,2	25	6.000	4	
99.DS.A65 •	ER-25 - Ø1÷16	√	75	Max 67,2	25	6.000	4	

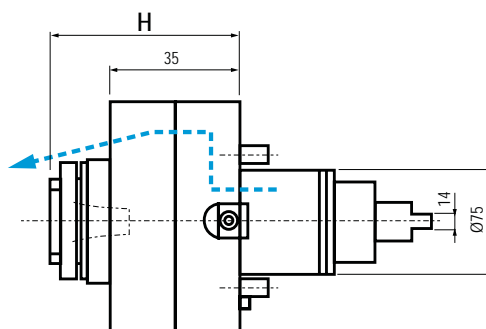


Assiale - Portapinza
 Axial - Collet Chuck

70 BAR

RATIO
1:1

Cod.	Output	Int Cool	H	Nm	Rpm	p kw	
99.DS.A34	ER-40 - Ø3-30	NO	Max 90,1	100	6.000	12	
99.DS.A35 •	ER-40 - Ø3-30	√	Max 90,1	100	6.000	12	

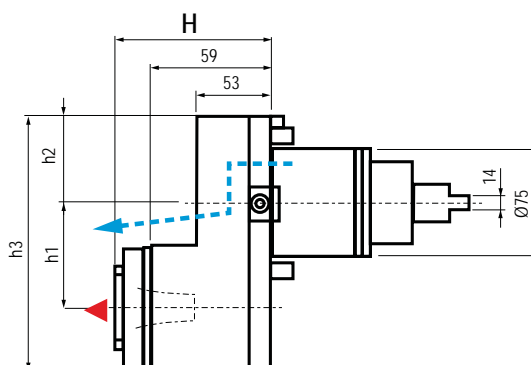


Il disegno potrebbe subire variazioni nel tempo
 The drawings are subject to change without prior notice

Assiale - Portapinza
 Axial - Collet Chuck

RATIO
1:4

Cod.	Output	Int Cool	H	Nm	Rpm	p kw	
99.DS.A36	ER-25 EF- Ø1÷16	NO	67	8	24.000	4	



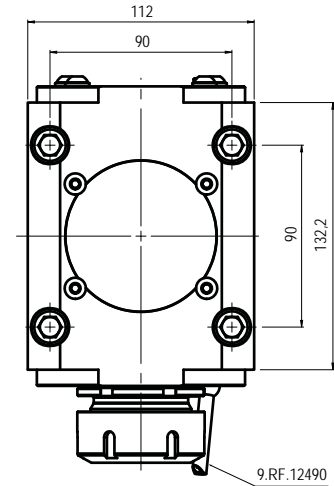
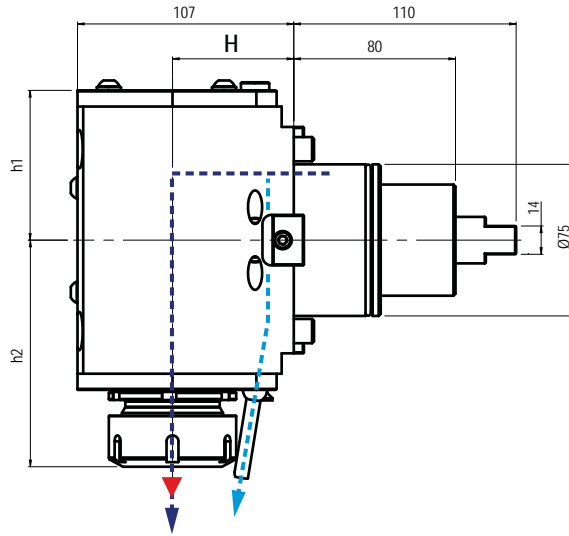
Il disegno potrebbe subire variazioni nel tempo
 The drawings are subject to change without prior notice

Disassato - Portapinza
 Offset Axis - Collet Chuck

Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:2

Cod.	Output	Int Cool	H	h1	h2	h3	Nm	Rpm	p kw	
99.DS.A37	ER-25 EF- Ø1÷16	NO	100,5÷105	45	56	131	35	12.000	8	



Radiale - Portapinza
Radial - Collet Chuck

70 BAR

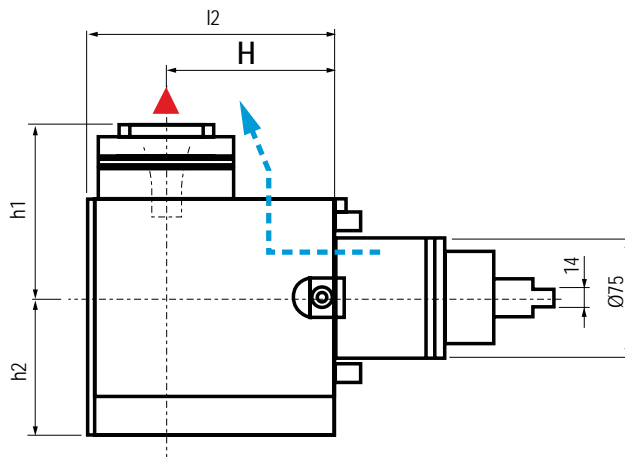


Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle



RATIO
1:1

Cod.	Output	Int Cool.	H	h1	h2	Nm	Rpm	p kw	
99.DS.A38	ER-40 - Ø3-30	NO	60	Max 112,1	74,1	100	6.000	12	
99.DS.A39 •	ER-40 - Ø3-30	√	60	Max 112,1	74,1	100	6.000	12	



Il disegno potrebbe subire
 variazioni nel tempo
 The drawings are subject to
 change without prior notice

Radiale - Portapinza
Radial - Collet Chuck

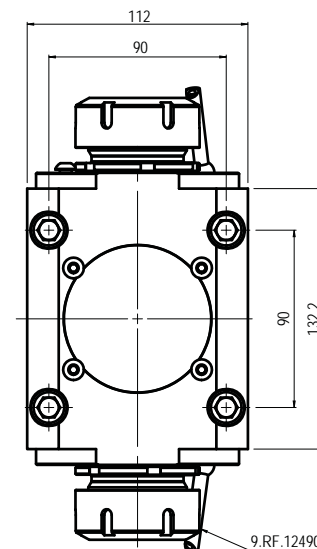
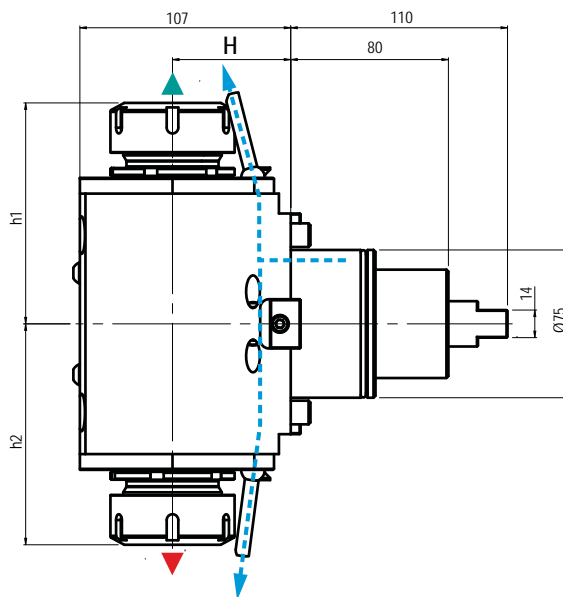


Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle



RATIO
1:4 / 1:2

Cod.	Output	Int Cool	H	l2	h1	h2	Nm	Rpm	p kw	
99.DS.A40	ER-25 EF- Ø1÷16	NO	60	104	77	74	8	24.000	4	
99.DS.A43	ER-25 EF- Ø1÷16	NO	60	95	93,5÷98	67	35	12.000	8	

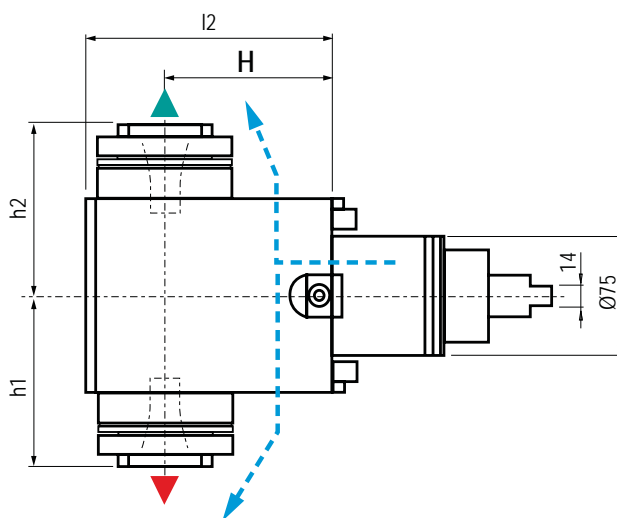


Doppio - Portapinza
 Double - Collet Chuck

- Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle
- Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:1

Cod.	Output	Int Cool.	H	h1	h2	Nm	Rpm	p kw	
99.DS.A44	ER-40-40 - Ø3-30	NO	60	Max 112,1	Max 112,1	100	6.000	12	

5


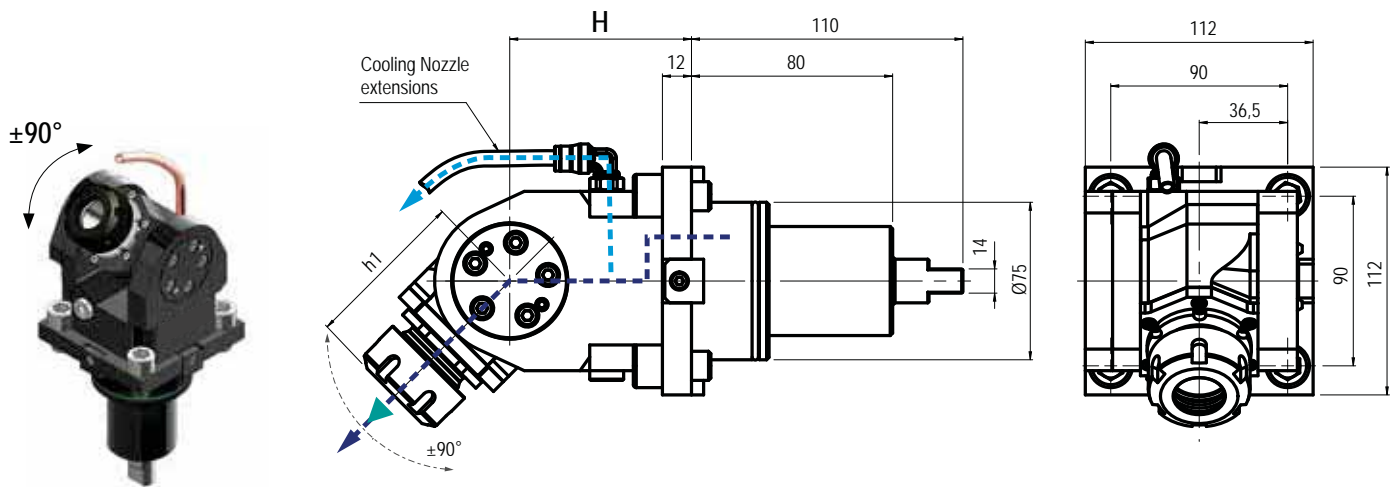
Il disegno potrebbe subire
 variazioni nel tempo
 The drawings are subject to
 change without prior notice

Doppio - Portapinza
 Double - Collet Chuck

- Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle
- Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:4 / 1:2

Cod.	Output	Int Cool.	H	l2	h1	h2	Nm	Rpm	Ratio τ	p kw	
99.DS.A45	ER-25-25 EF- Ø1÷16	NO	60	104	77	77	8	24.000	1:4	4	
99.DS.A46	ER-25-25 EF- Ø1÷16	NO	60	95	93,5÷98	93,5÷98	35	12.000	1:2	8	



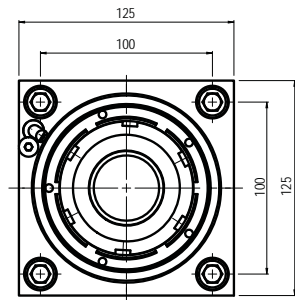
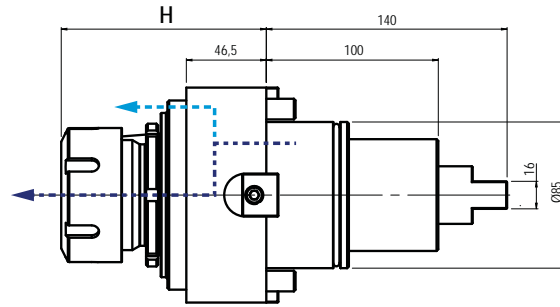
Orientabile - Portapinza
 Adjustable Angle - Collet Chuck

70 BAR

▼ Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle

RATIO
1:1

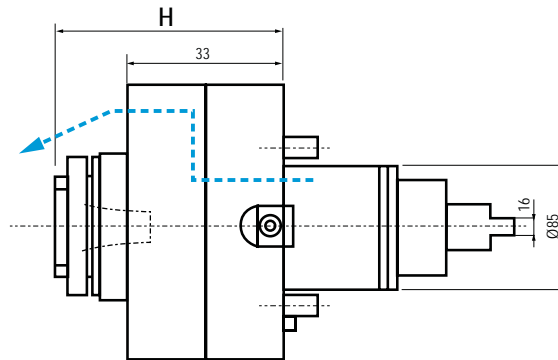
Cod.	Output	Int Cool.	H	h1	Nm	Rpm	p kw	
99.DS.A47	ER-25 Ø1÷16	NO	75	Max 67,2	25	6.000	4	
99.DS.A48 •	ER-25 Ø1÷16	√	75	Max 67,2	25	6.000	4	


 Assiale - Portapinza
 Axial - Collet Chuck

70 BAR

 RATIO
 1:1

Cod.	Output	Int Cool	H	Nm	Rpm	p kw	
99.DS.A50 •	ER-50 Ø7÷34	√	Max 119,2	150	3.200	15	

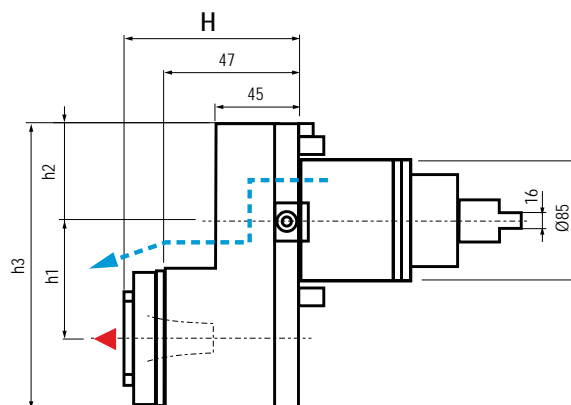


Il disegno potrebbe subire variazioni nel tempo
 The drawings are subject to change without prior notice

 Assiale - Portapinza
 Axial - Collet Chuck

 RATIO
 1:4

Cod.	Output	Int Cool	H	Nm	Rpm	p kw	
99.DS.A53	ER-32 EF- Ø2÷20	NO	85	25	12.000	6	



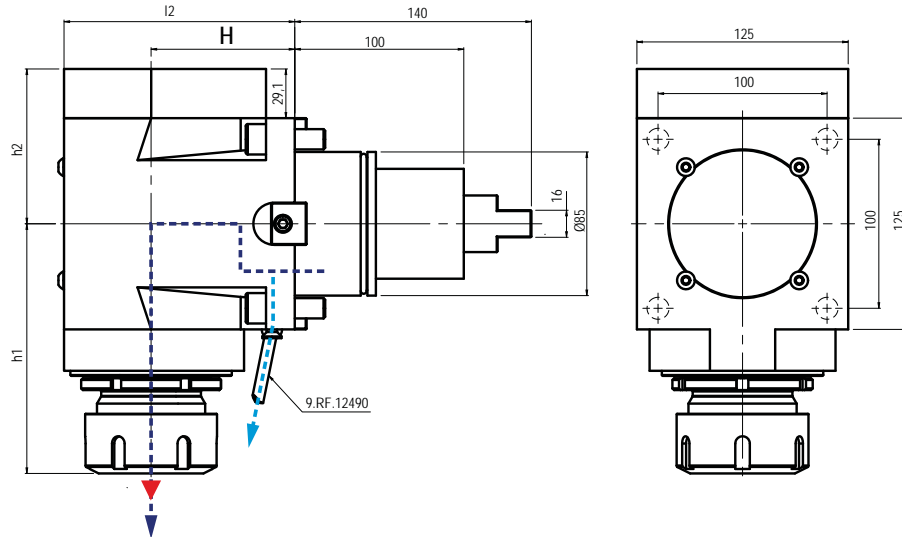
Il disegno potrebbe subire variazioni nel tempo
 The drawings are subject to change without prior notice

 Disassato - Portapinza
 Offset Axis - Collet Chuck

 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

 RATIO
 1:2

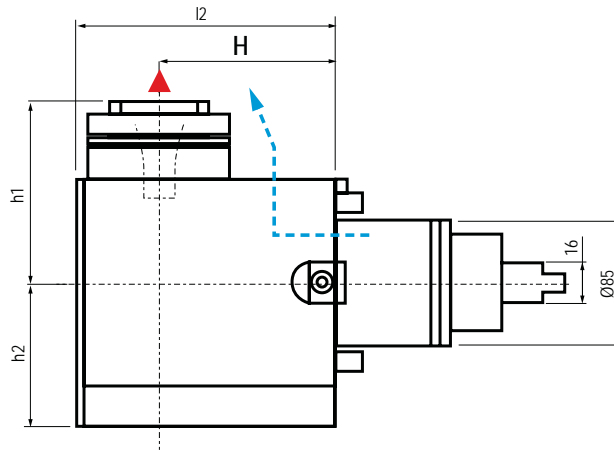
Cod.	Output	Int Cool	H	h1	h2	h3	Nm	Rpm	p kw	
99.DS.A54	ER-32 EF- Ø2÷20	NO	100,5÷110	60	62,5	158	75	6.000	12	


 Radiale - Portapinza
Radial - Collet Chuck
70 BAR

 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

 RATIO
1:1

Cod.	Output	Int Cool.	H	l2	h1	h2	Nm	Rpm	p kw	
99.DS.A56 •	ER-50 Ø7÷34	✓	85	136,5	Max 147,7	91,6	150	3.200	15	
99.DS.A57 •	ER-50 Ø7÷34	✓	110	161,5	Max 147,7	91,6	150	3.200	15	

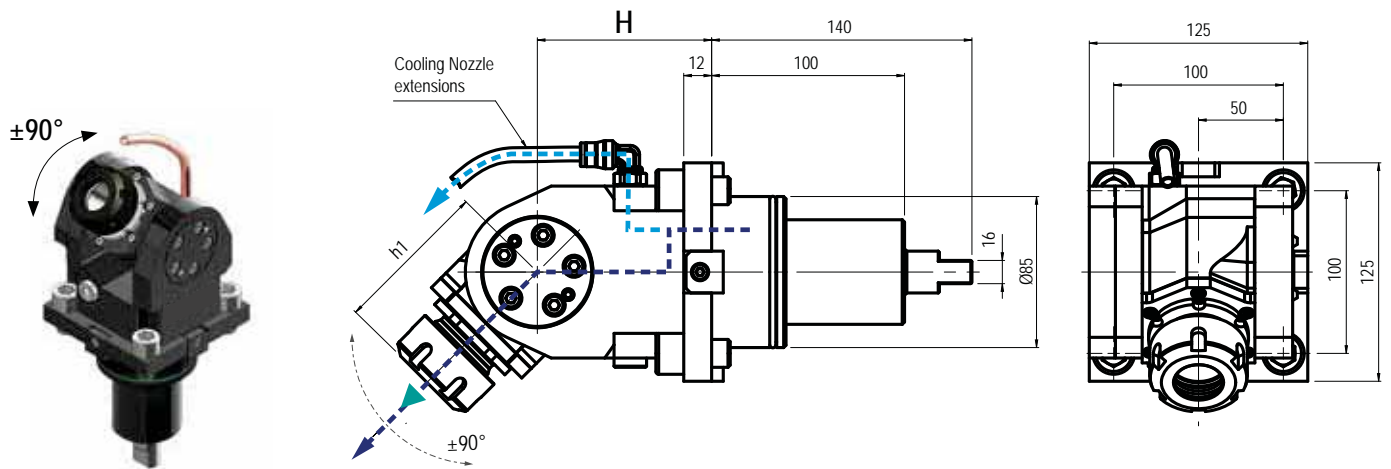

 Il disegno potrebbe subire
 variazioni nel tempo
 The drawings are subject to
 change without prior notice

 Radiale - Portapinza
Radial - Collet Chuck

 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

 RATIO
1:4 / 1:2

Cod.	Output	Int Cool.	H	l2	h1	h2	Nm	Rpm	Ratio τ	p kw	
99.DS.A58	ER-32 EF- Ø2÷20	NO	85	137	127	83	25	12.000	1:4	6	
99.DS.A59	ER-32 EF- Ø2÷20	NO	85	124	127,5÷132	63	75	6.000	1:2	12	



Orientabile - Portapinza

Adjustable Angle - Collet Chuck

70 BAR

 Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle

 RATIO
1:1

Cod.	Output	Int Cool.	H	h1	Nm	Rpm	p kw	
99.DS.A60	ER-32 Ø2±20	NO	167,5	52,5	50	4.000	6	
99.DS.A61 •	ER-32 Ø2±20	√	167,5	52,5	50	4.000	6	

NEW!

PRESA DI MOTO INTERCAMBIABILE
INTERCHANGEABLE COUPLINGS

HAAS MOTORIZZATI - DRIVEN TOOLS


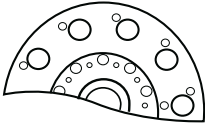
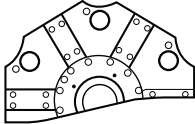
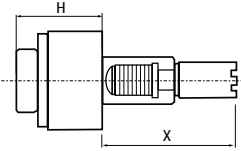
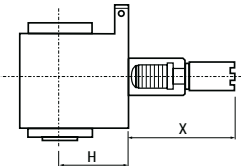


DOTAZIONE STANDARD
STANDARD EQUIPMENT

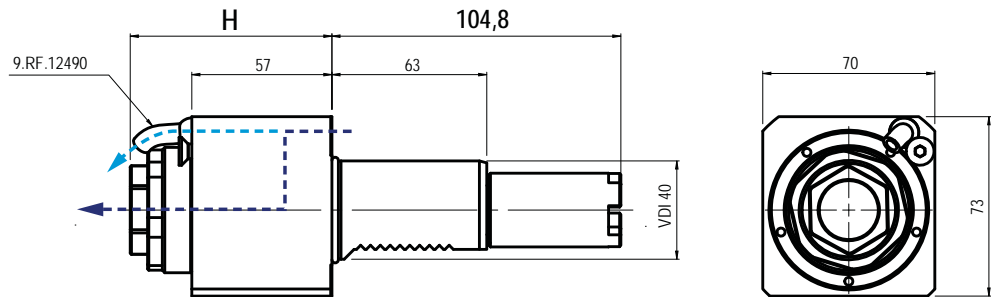
Chiave esagonale bloccaggio albero /
ugello refrigerazione / vite bloccaggio
ugello

Hexagonal tool shaft lock wrench /
cooling nozzle / nozzle lock screws



		TORRETTA STANDARD VDI 40 TURRET		TORRETTA IBRIDA - HYBRID TURRET		TORRETTA HAAS TURRET	
	Per le torretta Haas è necessario un adattatore per conversione Haas turrets requires adapter plates G.371.15859.000						
Modello Tornio - Type of Lathe	mm	SL20/30	SL40 - ST20/30	SL20/30-TL15/25	SL40	SL20/30	SL40
	X	104.85	117.55	117.55	130.25	117.55	130.25
	H	75 mm					
	Cod.	99.HA.590083	99.HA.590082	99.HA.590082	99.HA.596352	99.HA.590082	99.HA.596352
Assiale - Axial		A	B	C	D	E	F
	X	104.85	117.55	117.55	130.25	117.55	130.25
	H	75 mm					
	Cod.	99.HA.590085	99.HA.590084	99.HA.590084	99.HA.596353	99.HA.590084	99.HA.596353
Radiale - Radial							

N.B: Verifica compatibilità motorizzati a pagina 5.2 - 5.3 - Check the driven tools compatibility at page 5.2 - 5.3

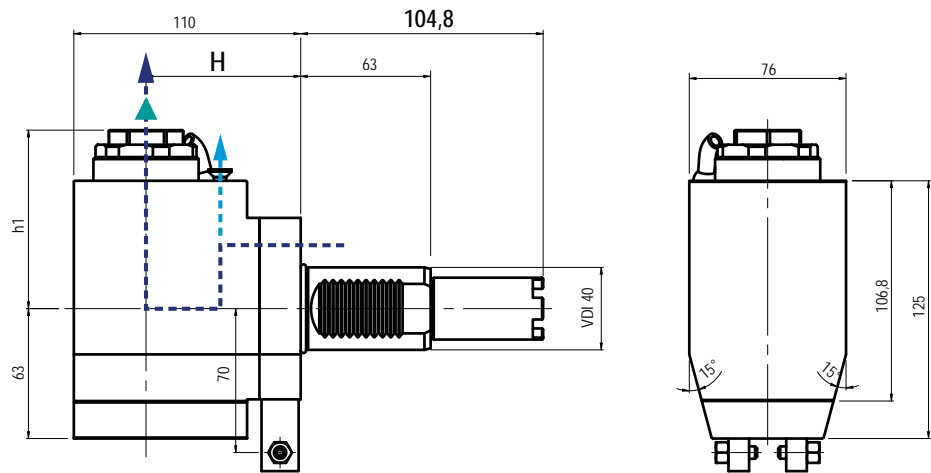
TORRETTA STANDARD VDI 40 TURRET SL20/30 **A**


Assiale - Portapinza
Axial - Collet Chuck

25 BAR

RATIO 1:1

Cod.	Output	Int Cool	H	Nm	Rpm	p kw	
99.HA.590083	ER-32 - Ø2÷20	NO	Max 82,1	63	6.000	10	
99.HA.590083B •	ER-32 - Ø2÷20	√	Max 82,1	63	6.000	10	

5


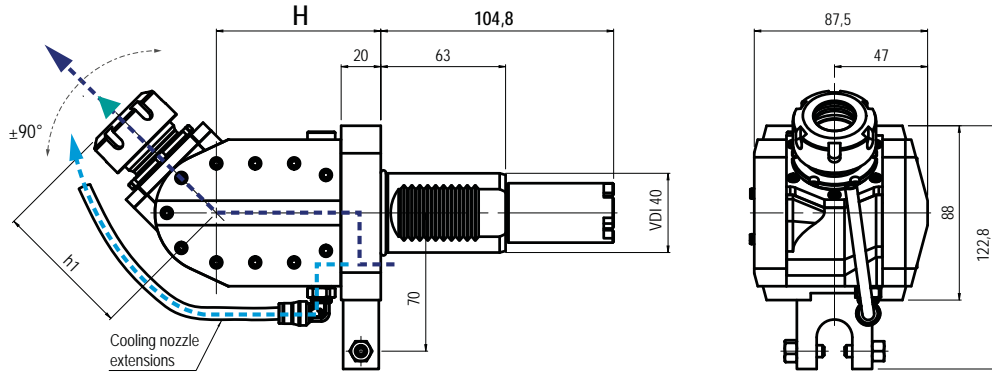
Radiale - Portapinza
Radial - Collet Chuck

25 BAR

Senso di rotazione uguale al mandrino
Direction of rotation same as machine spindle

RATIO 1:1

Cod.	Output	Int Cool	H	h1	Nm	Rpm	p kw	
99.HA.590085	ER-32 - Ø2÷20	NO	75	Max 86,6	63	6.000	10	
99.HA.590085B •	ER-32 - Ø2÷20	√	75	Max 86,6	63	6.000	10	

TORRETTA STANDARD VDI 40 TURRET SL20/30 A


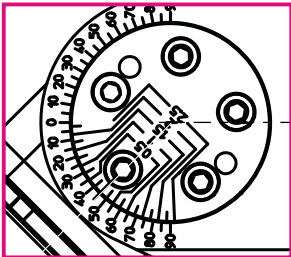
Orientabile - Portapinza
Adjustable Angle - Collet Chuck

25 BAR

▼ Senso di rotazione uguale al mandrino
Direction of rotation same as machine spindle

RATIO 1:1

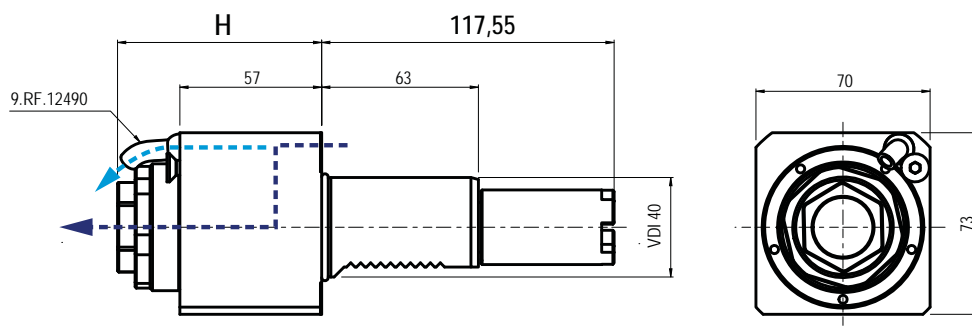
Cod.	Output	Int Cool	H	h1	Nm	Rpm	p kw	
99.HA.00U1	ER-25 - Ø1÷16	NO	83	Max 69,3	25	6.000	10	
99.HA.00U1B •	ER-25 - Ø1÷16	√	83	Max 69,3	25	6.000	10	



Dettaglio
Detail **A**

Regolazione angolare decimale in manuale
Manual decimal angular adjustment

TORRETTA STANDARD VDI 40 TURRET SL40-ST20/30 **B**
TORRETTA IBRIDA - HYBRID TURRET SL20/30 - TL15/25 **C**
TORRETTA HAAS TURRET SL20/30 **E**



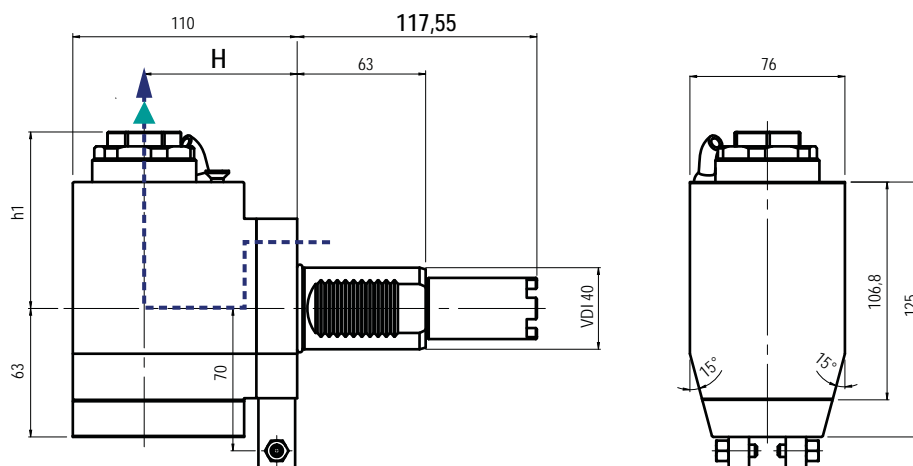
Assiale - Portapinza
 Axial - Collet Chuck

25 BAR

RATIO
1:1

Cod.	Output	Int Cool	H	Nm	Rpm	p kw	
99.HA.590082	ER-32 - Ø2÷20	NO	Max 82,1	63	6.000	10	
99.HA.590082B •	ER-32 - Ø2÷20	√	Max 82,1	63	6.000	10	

5



Radiale - Portapinza
 Radial - Collet Chuck

25 BAR

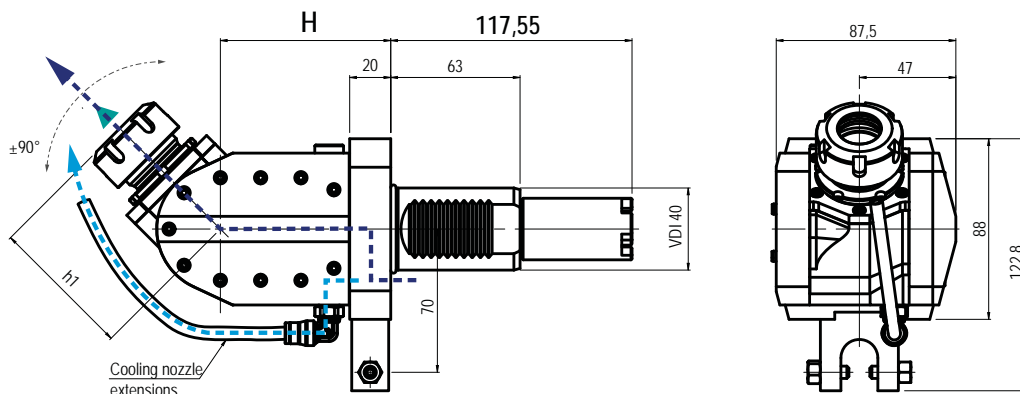
Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle

RATIO
1:1

Cod.	Output	Int Cool	H	h1	Nm	Rpm	p kw	
99.HA.590084	ER-32 - Ø2÷20	NO	Max 75	Max 86,6	63	6.000	10	
99.HA.590084B •	ER-32 - Ø2÷20	√	Max 75	Max 86,6	63	6.000	10	

TORRETTA STANDARD VDI 40 TURRET SL40-ST20/30
TORRETTA IBRIDA - HYBRID TURRET SL20/30 - TL15/25
TORRETTA HAAS TURRET SL20/30

B
C
E



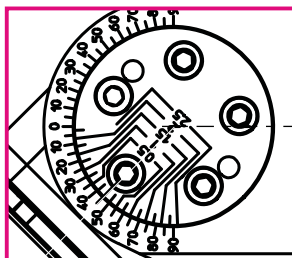
Orientabile - Portapinza
Adjustable Angle - Collet Chuck

25 BAR

▼ Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle

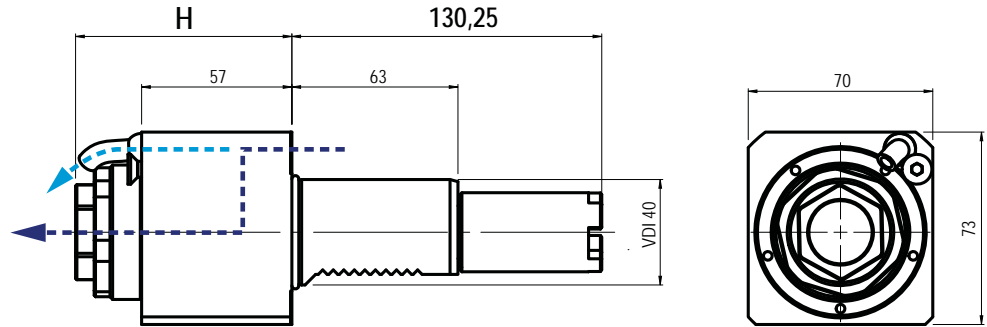
RATIO
1:1

Cod.	Output	Int Cool	H	h1	Nm	Rpm	p kw	
99.HA.00U2	ER-25 - Ø1÷16	NO	Max 83	Max 69,3	25	6.000	10	
99.HA.00U2B •	ER-25 - Ø1÷16	√	Max 83	Max 69,3	25	6.000	10	



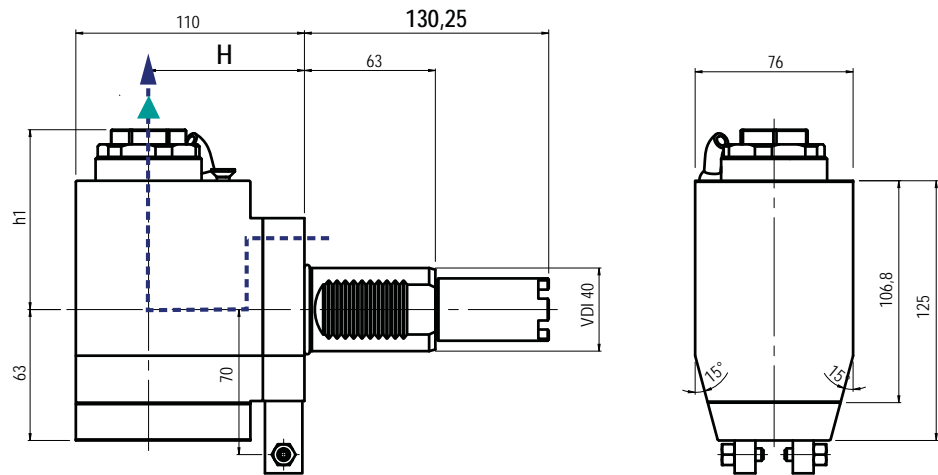
Dettaglio
 Detail **A**

Regolazione angolare decimale in manuale
 Manual decimal angular adjustment

TORRETTA IBRIDA - HYBRID TURRET SL40 D
TORRETTA HAAS TURRET SL40 F

 Assiale - Portapinza
Axial - Collet Chuck
25 BAR

RATIO
1:1

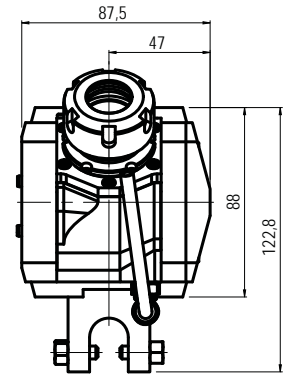
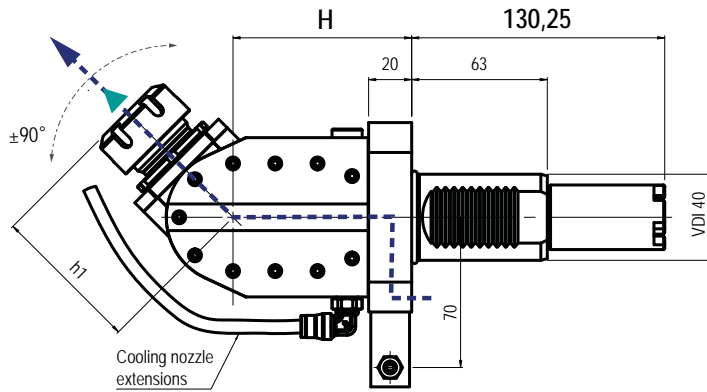
Cod.	Output	Int Cool	H	Nm	Rpm	p kw	
99.HA.596352	ER-32 - Ø2÷20	NO	Max 82,1	63	6.000	10	
99.HA.596352B •	ER-32 - Ø2÷20	√	Max 82,1	63	6.000	10	

5

 Radiale - Portapinza
Radial - Collet Chuck
25 BAR

 Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle

RATIO
1:1

Cod.	Output	Int Cool	H	h1	Nm	Rpm	p kw	
99.HA.596353	ER-32 - Ø2÷20	NO	75	Max 86,6	63	6.000	10	
99.HA.596353B •	ER-32 - Ø2÷20	√	75	Max 86,6	63	6.000	10	

TORRETTA IBRIDA - HYBRID TURRET SL40 **D**
TORRETTA HAAS TURRET SL40 **F**


Orientabile - Portapinza
Adjustable Angle - Collet Chuck

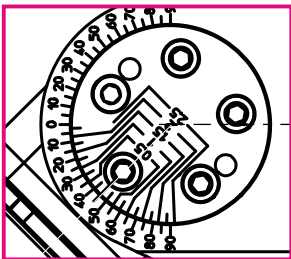


Senso di rotazione uguale al mandrino
Direction of rotation same as machine spindle



RATIO
1:1

Cod.	Output	Int Cool	H	h1	Nm	Rpm	p kw	
99.HA.00U3	ER-25 - Ø1=16	NO	83	69,3	25	6.000	10	
99.HA.00U3B •	ER-25 - Ø1=16	√	83	69,3	25	6.000	10	



Dettaglio
Detail **A**

Regolazione angolare decimale in manuale
Manual decimal angular adjustment



Adattatore per conversione da torretta VDI 40 a torretta Haas

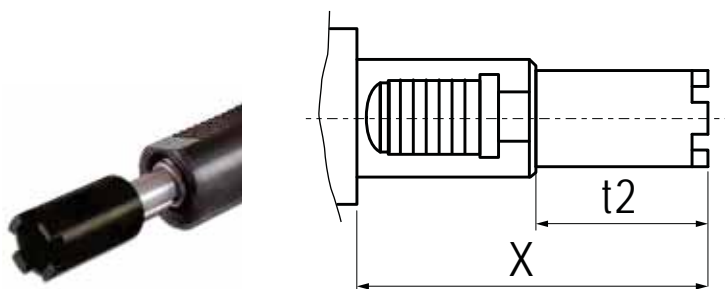
Haas adapter plate converts VDI 40 turret to Haas turret

Cod.	
G.371.15859.000	

NOVITÀ-NEWS!!

Presi di moto intercambiabile per le varie tipologie di torrette HAAS

Interchangeable couplings for the different HAAS turret



Prese di moto

Coupling

Cod.	t2	X	
99.HA.00001	41,8	104,85	
99.HA.00002	54,55	117,55	
99.HA.00003	67	130,25	

NEW!

SERIE SMART (QTS)
SMART SERIES (QTS)

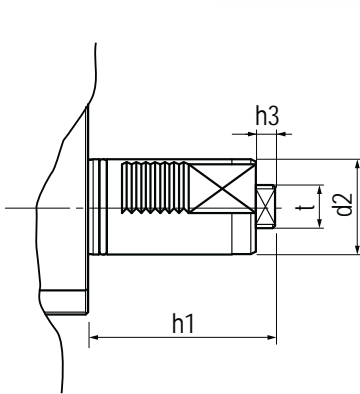
MAZAK MOTORIZZATI - DRIVEN TOOLS



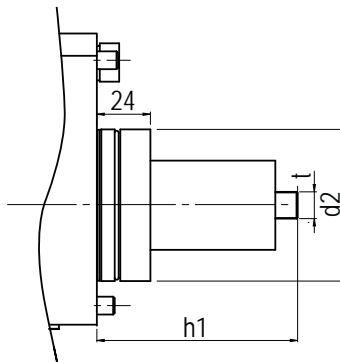
DOTAZIONE STANDARD
STANDARD EQUIPMENT

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

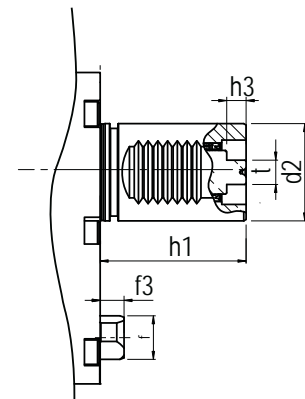
Tool shaft lock wrench / cooling
nozzle / nozzle lock screws / O-ring



QTN



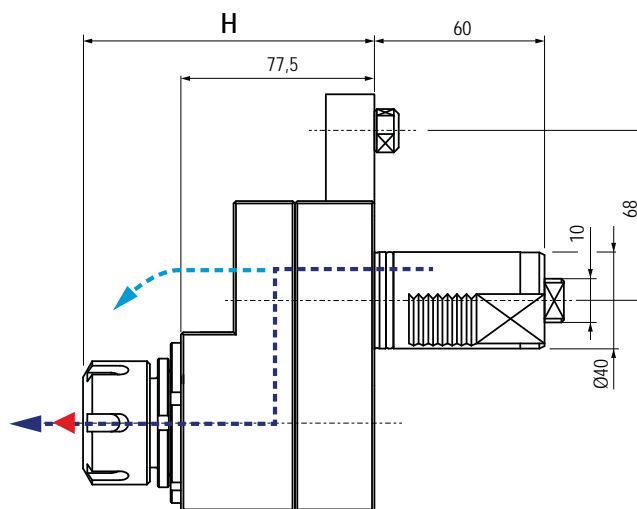
QTS



HQ

Type	d2	h1	h3	t	f	f3
QTN1	Ø40	61	1	10	-	-
QTN2	Ø40	70	8	18	-	-
QTN3	Ø50	75	10	12	-	-
QTS	Ø68	90	-	12	-	-
HQ	Ø40	60	8	10	Ø20	9,8

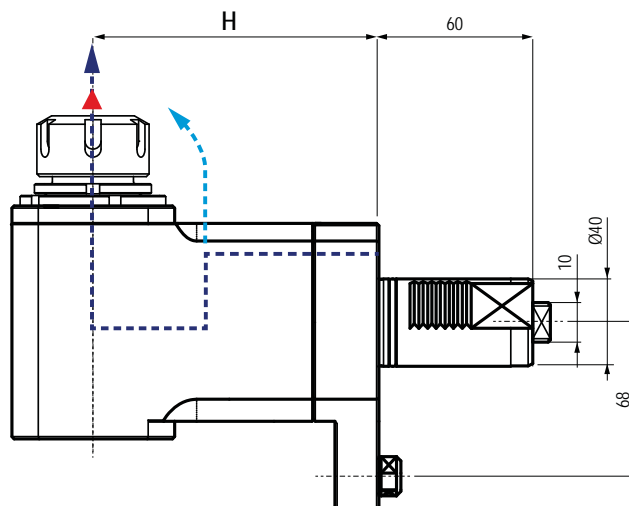
N.B: Verifica compatibilità motorizzati a pagina 5.2 - 5.3 - Check the driven tools compatibility at page 5.2 - 5.3

QUICK TURN NEXUS QTN 100 - SUPER QUADREX TURN SQT 10 - 100/150
QTN 200/250 - SUPER QUADREX TURN SQT 15/18 - 200/250
12 STATION TURRET
16 STATION TURRET

 Disassato - Portapinza
Offset Axis - Collet Chuck
80 BAR

 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:1

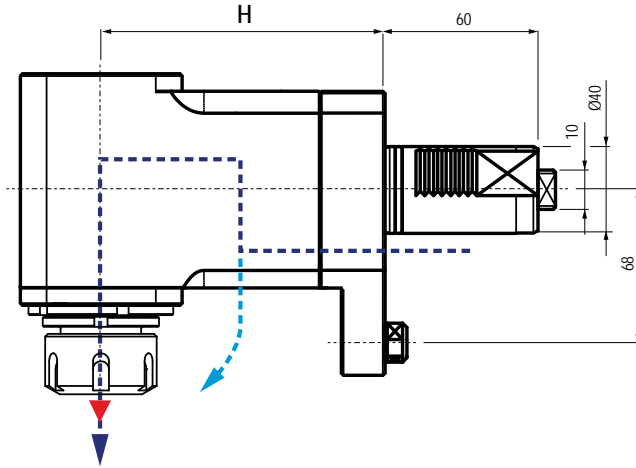
Cod.	OEM Ref	Output	In t Cool	H	Nm	Rpm	
99.MZ.A40	-53548030200 -53108020100	ER-25 - Ø1÷16	NO	116,2 ÷ 120	63	6.000	
99.MZ.A41 •	-	ER-25 - Ø1÷16	✓	116,2 ÷ 120	63	6.000	

5

 Radiale - Portapinza
Radial - Collet Chuck
80 BAR

 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:1

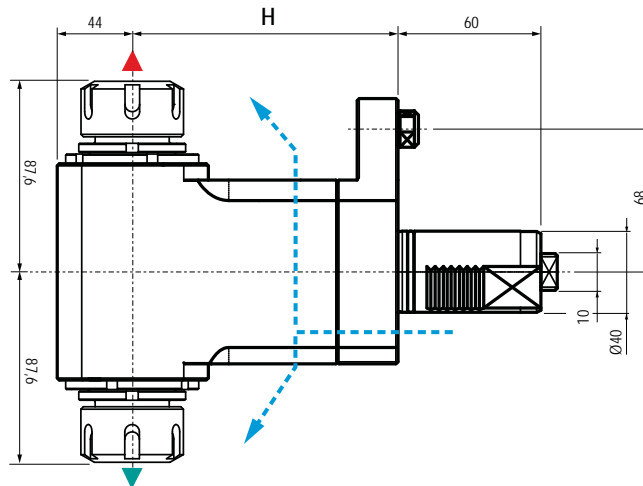
Cod.	OEM Ref	Output	Int Cool	H	Nm	Rpm	
99.MZ.A46	-53248030303 -535280110102 -53108020200	ER-25 - Ø1÷16	NO	100	63	6.000	
99.MZ.A47 •	-	ER-25 - Ø1÷16	✓	100	63	6.000	

QUICK TURN NEXUS QTN 100 - SUPER QUADREX TURN SQT 10 - 100/150
QTN 200/250 - SUPER QUADREX TURN SQT 15/18 - 200/250
12 STATION TURRET
16 STATION TURRET

 Radiale Rovesciato - Portapinza
Radial Upside Down - Collet Chuck
80 BAR

 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:1

Cod.	OEM Ref	Output	Int Cool	H	Nm	Rpm	
99.MZ.A48	-53548010301	ER-25 - Ø1÷16	NO	100	63	6.000	
99.MZ.A49 •	-	ER-25 - Ø1÷16	√	100	63	6.000	

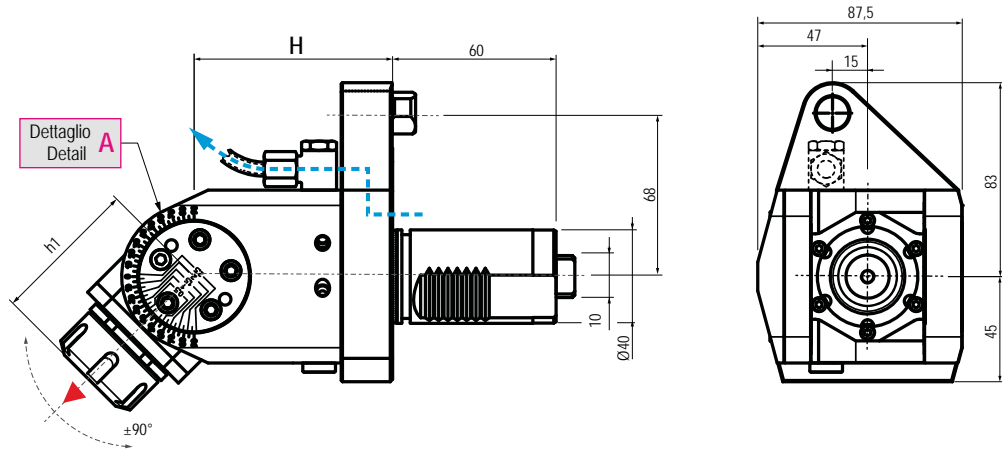

 Doppio - Portapinza
Double - Collet Chuck

 Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle

 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:1

Cod.	OEM Ref	Output	Int Cool	H	Nm	Rpm	
99.MZ.A55	-	ER-25-25 - Ø1÷16	NO	100	63	6.000	

QUICK TURN NEXUS QTN 100 - SUPER QUADREX TURN SQT 10 - 100/150
QTN 200/250 - SUPER QUADREX TURN SQT 15/18 - 200/250
12 STATION TURRET
16 STATION TURRET


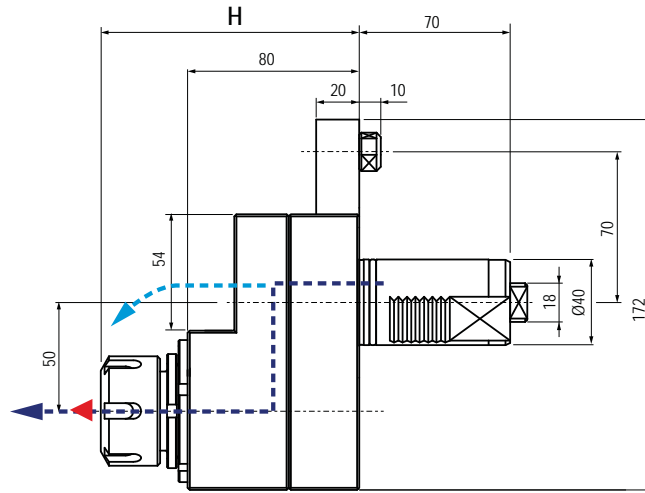
Orientabile - Portapinza

Adjustable Angle - Collet Chuck


 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:1

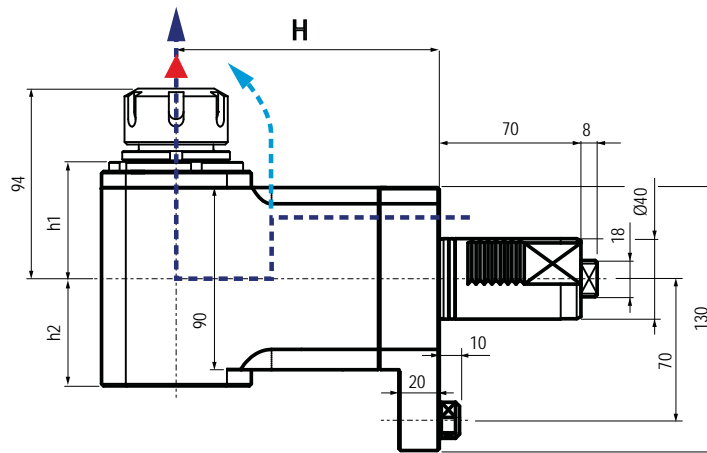
Cod.	OEM Ref.	Output	Int Cool	H	h1	Nm	Rpm	
99.MZ.A56	-	ER-20 - $\varnothing 1=13$	NO	85	Max 67,5	63	6.000	

QUICK TURN NEXUS QTN 200/250 - SUPER QUADREX TURN SQT 15/18 - 200/250
12 STATION TURRET

 Disassato - Portapinza
Offset Axis - Collet Chuck
80 BAR

 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:1

Cod.	OEM Ref.	Output	Int Cool	H	Nm	Rpm	
99.MZ.A58	-53208020102	ER32 - Ø2±20	NO	118	80	6.000	
99.MZ.A59 •	-	ER32 - Ø2±20		116	80	6.000	

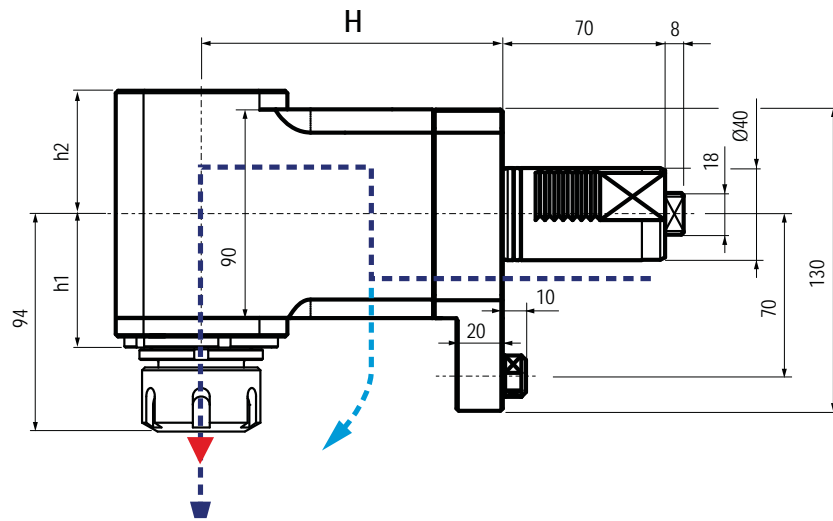

 Radiale - Portapinza
Radial - Collet Chuck
80 BAR

 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:1

Cod.	OEM Ref.	Output	Int Cool	H	h1	h2	Nm	Rpm	
99.MZ.A65	-53628010701 -53208020202	ER32 - Ø2±20	NO	130	57	53	80	6.000	
99.MZ.A66 •	-	ER32 - Ø2±20	√	130	57	67	80	6.000	

* Motorizzati QTN 2, per torni QTN 200/250, SOLO su torretta a 12 stazioni - QTN 2 Driven tools, for QTN 200/250 lathes ONLY on 12 station turret

QUICK TURN NEXUS QTN 200/250 - SUPER QUADREX TURN SQT 15/18 - 200/250
12 STATION TURRET


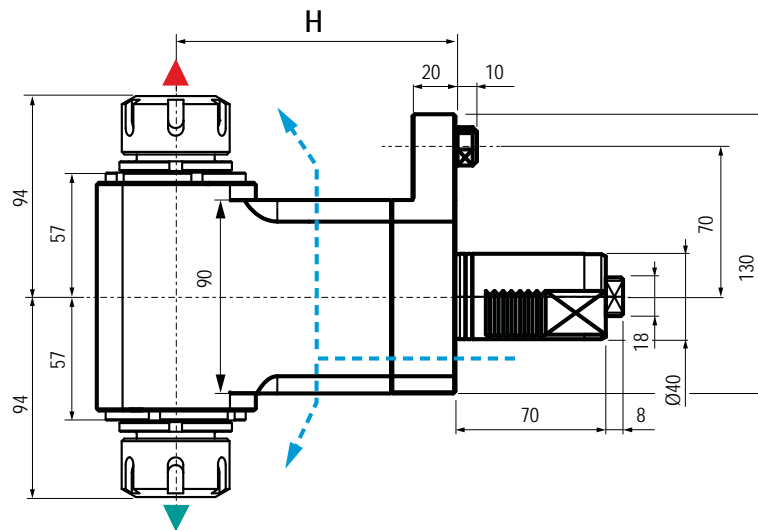
Radiale Rovesciato - Portapinzina
Radial Upside Down - Collet Chuck

80 BAR

▼ Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:1

Cod.	OEM Ref.	Output	Int Cool	H	h1	h2	Nm	Rpm	
99.MZ.A67	-	ER-32 - Ø2±20	NO	130	38	53	80	6.000	
99.MZ.A68 •	-	ER-32 - Ø2±20	✓	130	38	67	80	6.000	

5


Doppio - Portapinzina
Double - Collet Chuck

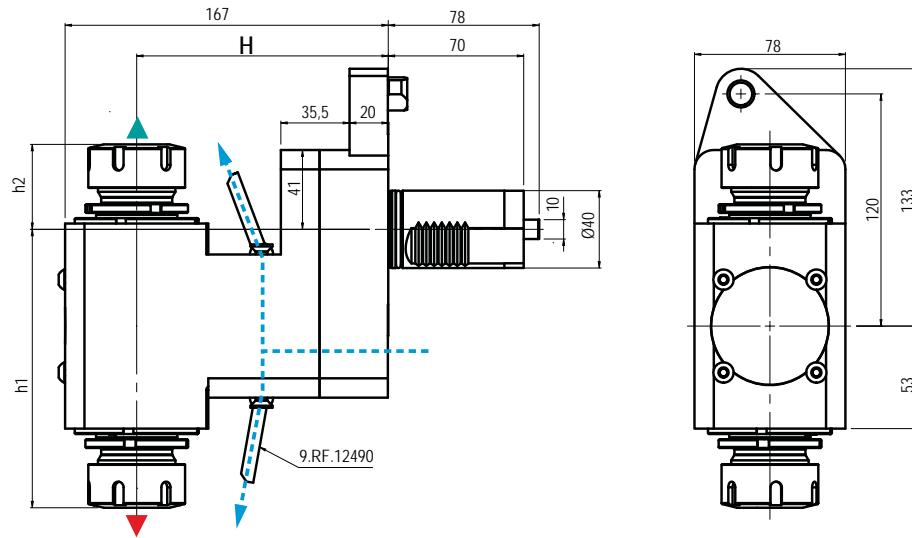
▼ Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle

▼ Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:1

Cod.	OEM Ref.	Output	Int Cool	H	Nm	Rpm	
99.MZ.A73	-53208011600 -53628011000	ER-32-32 - Ø2±20	NO	130	80	6.000	

* Motorizzati QTN 2, per torni QTN 200/250, SOLO su torretta a 12 stazioni - QTN 2 Driven tools, for QTN 200/250 lathes ONLY on 12 station turret

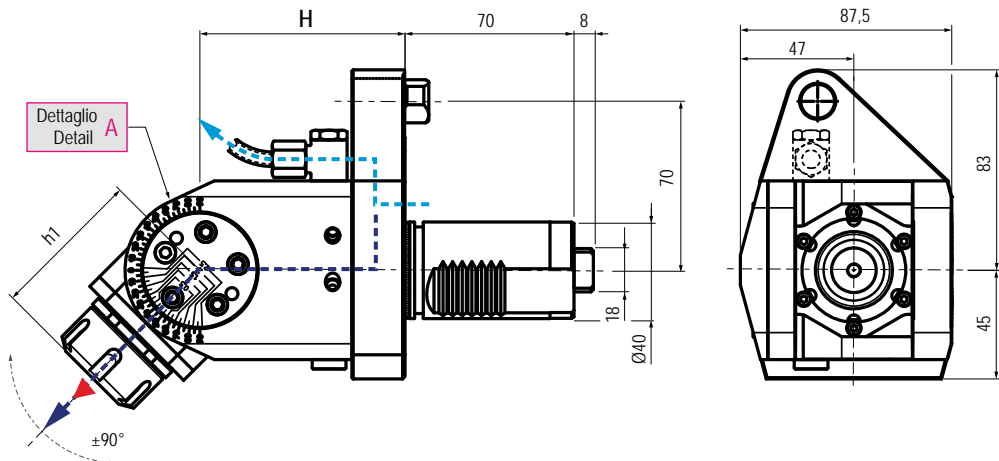
QUICK TURN NEXUS QTN 200/250 - SUPER QUADREX TURN SQT 15/18 - 200/250
12 STATION TURRET

Doppio Arretrato- Portapinza
Double Rear Offset - Collet Chuck

 Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle

 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:1

Cod.	OEM Ref.	Output	Int Cool	H	h1	h2	Nm	Rpm	
99.MZ.A70		ER-32 - Ø2÷20	NO	130	143,9	43,9	80	6.000	

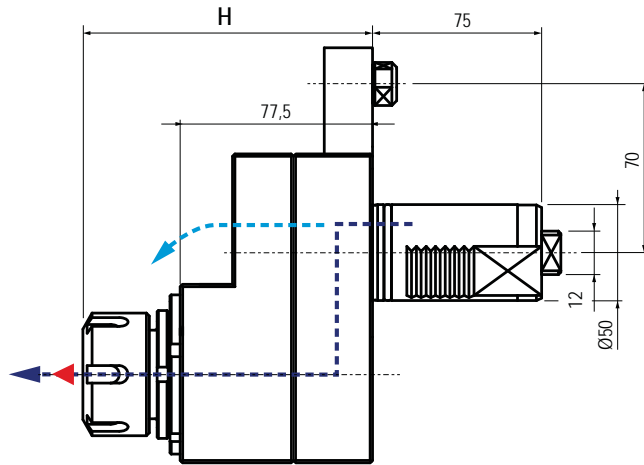

Orientabile - Portapinza
Adjustable Angle - Collet Chuck
80 BAR

 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:1

Cod.	OEM Ref.	Output	Int Cool	H	h1	Nm	Rpm	
99.MZ.A74	-	ER-25 - Ø1÷16	NO	85	Max 67,5	80	6.000	
99.MZ.A64 •	-	ER-25 - Ø1÷16	√	85	Max 67,5	80	6.000	

* Motorizzati QTN 2, per torni QTN 200/250, SOLO su torretta a 12 stazioni - QTN 2 Driven tools, for QTN 200/250 lathes ONLY on 12 station turret

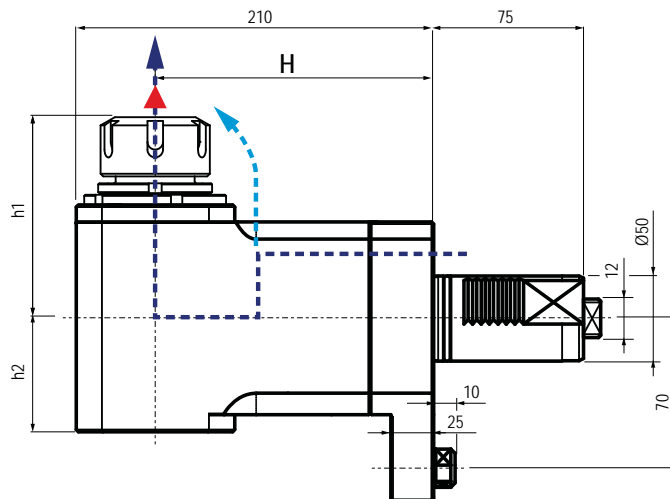
QUICK TURN NEXUS QTN 300/350/400/450 - SUPER QUADREX TURN SQT 28/30 - 300

 Disassato - Portapinza
 Offset Axis - Collet Chuck

80 BAR

 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:1

Cod.	OEM Ref.	Output	Int Cool	H	Nm	Rpm	
99.MZ.A71	-	ER-40 - Ø3=30	NO	-	100	4.000	
99.MZ.A72 •	-	ER-40 - Ø3=30	√	90	100	4.000	
99.MZ.A76	53308020604 53828002002	ISO-40	NO	92,5	100	4.000	
99.MZ.A79 •	-	ISO-40	√	125	100	4.000	

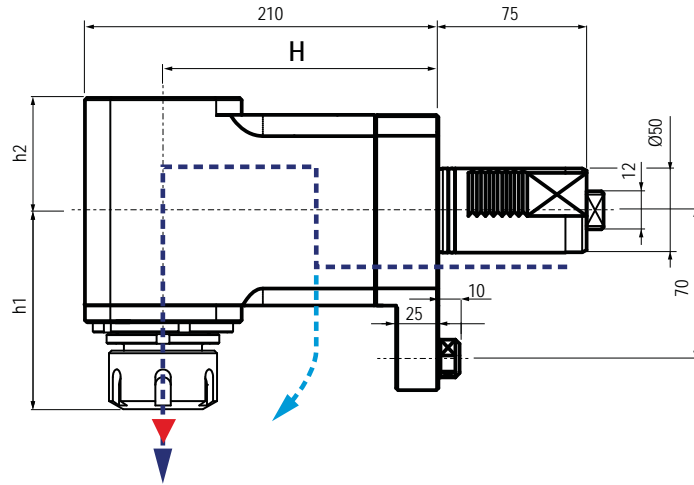
5

 Radiale - Portapinza
 Radial - Collet Chuck

80 BAR

 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:1

Cod.	OEM Ref.	Output	Int Cool	H	h1	h2	Nm	Rpm	
99.MZ.A75	-	ER-40 - Ø3=30	NO	160	-	86	100	4.000	
99.MZ.A81 •	-	ER-40 - Ø3=30	√	160	-	115	100	4.000	
99.MZ.A77	53308020101	ISO-40	NO	160	73	86	100	4.000	
99.MZ.A78 •	-	ISO-40	√	160	73	115	100	4.000	

QUICK TURN NEXUS QTN 300/350/400/450 - SUPER QUADREX TURN SQT 28/30 - 300


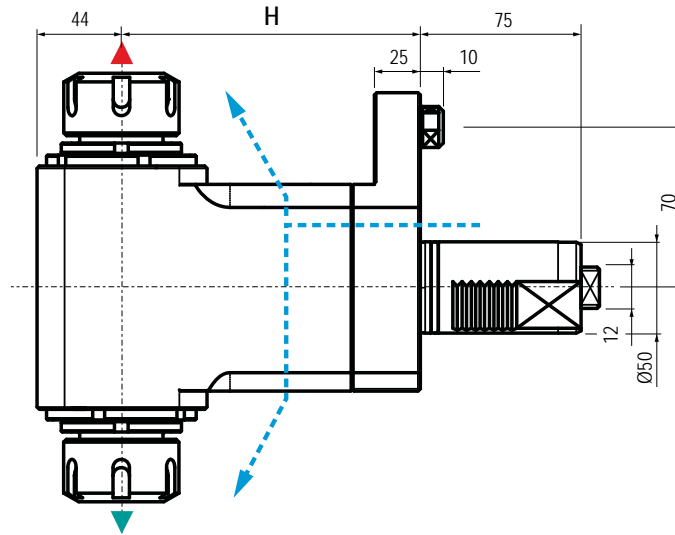
Radiale Rovesciato - Portapinza
Radial Upside Down - Collet Chuck

80 BAR

Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:1

Cod.	OEM Ref.	Output	Int Cool	H	Nm	Rpm	
99.MZ.A82	-	ER-40 - Ø3÷30	NO	160	100	4.000	
99.MZ.A83 •	-	ER-40 - Ø3÷30	√	160	100	4.000	



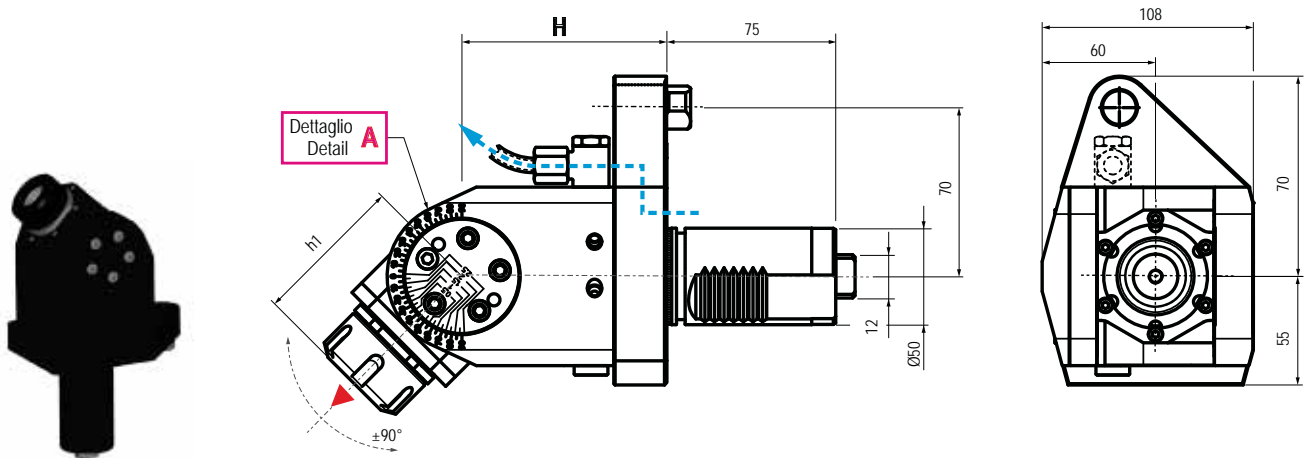
Doppio - Portapinza
Double - Collet Chuck

Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle

Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:1

Cod.	OEM Ref.	Output	Int Cool	H	Nm	Rpm	
99.MZ.A84	-	ER-40-40 - Ø3÷30	NO	160	100	4.000	

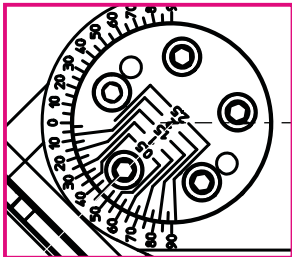
QUICK TURN NEXUS QTN 300/350/400/450 - SUPER QUADREX TURN SQT 28/30 - 300


Orientabile - Portapinza
Adjustable Angle - Collet Chuck

Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

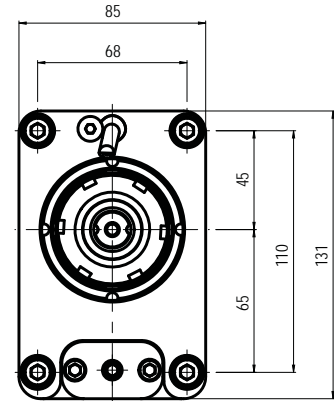
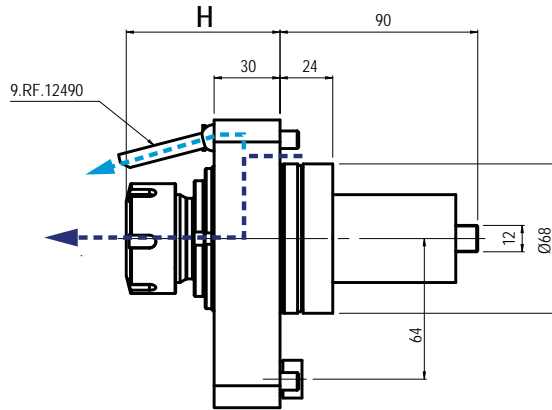
RATIO
1:1

Cod.	OEM Ref.	Output	Int Cool	H	h1	Nm	Rpm	
99.MZ.A80	-	ER-32 - Ø2±20	NO	85	67,5	100	4.000	

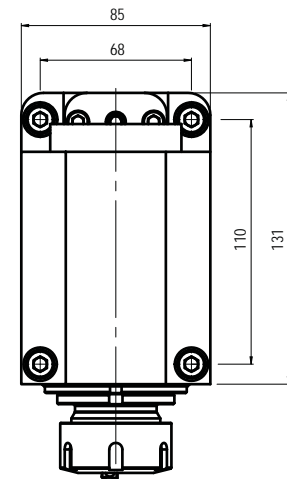
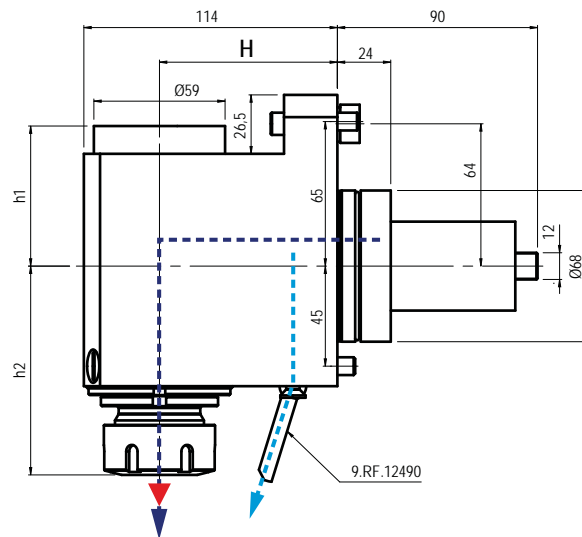


Dettaglio
 Detail **A**

Regolazione angolare decimale in manuale
 Manual decimal angular adjustment

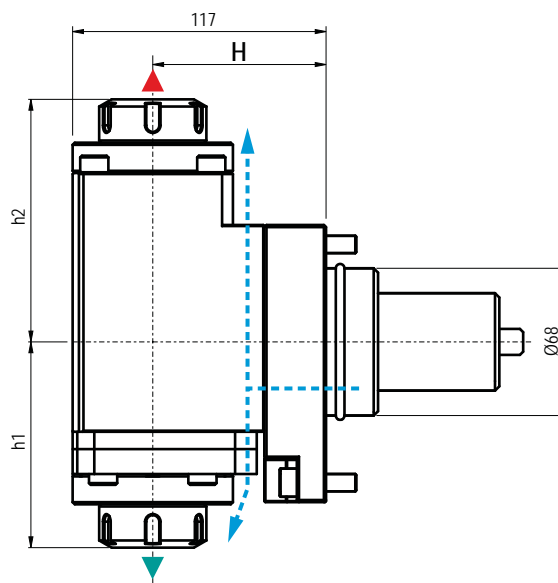
QUICK TURN SMART QTS 100M / 200M

 Assiale - Portapinza
 Axial - Collet Chuck

Cod.	Output	Int Cool	H	Nm	Rpm	p kw	
99.MZ.A03	ER-32 - Ø2÷20	NO	Max 70	60	6.000	10	
99.MZ.A06 •	ER-32 - Ø2÷20	√	Max 70	60	6.000	10	


 Radiale - Portapinza
 Radial - Collet Chuck

 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

Cod.	Output	Int Cool.	H	h1	h2	Nn	Rpm	p kw	
99.MZ.A09	ER-32 - Ø2÷20	NO	80	93,9	50,5	60	6.000	10	
99. MZ.A10 •	ER-32 - Ø2÷20	√	80	93,9	63	60	6.000	10	

QUICK TURN SMART QTS 100M / 200M


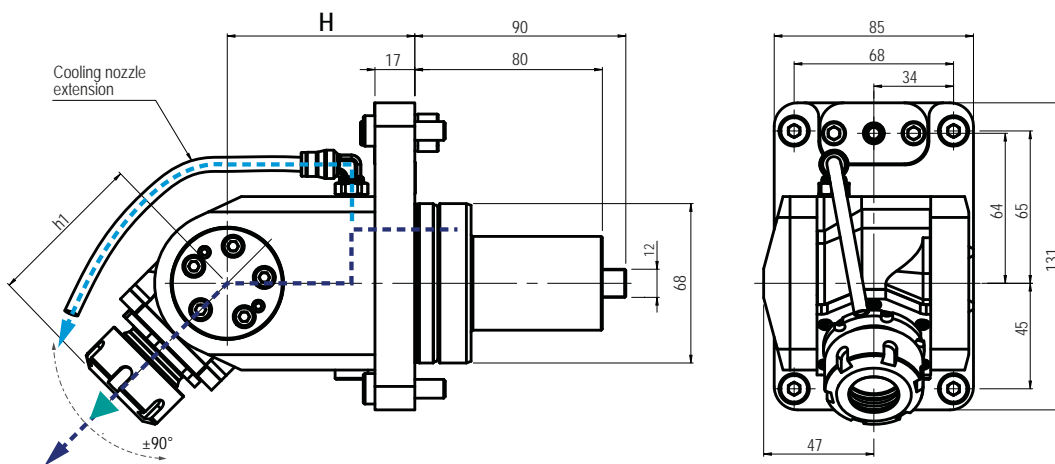
Doppio - Portapinza
 Double - Collet Chuck

▲ Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle

▼ Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:1

Cod.	Output	Int Cool	H	h1	h2	Nm	Rpm	
99.MZ.A13	ER-32-32 - Ø2÷20	NO	80	95	112	70	6.000	

5


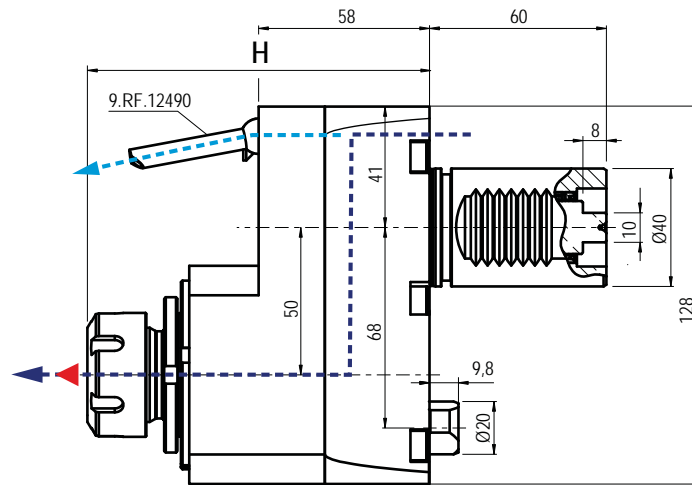
Orientabile - Portapinza
 Adjustable Angle - Collet Chuck

80 BAR

▲ Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle

RATIO
1:1

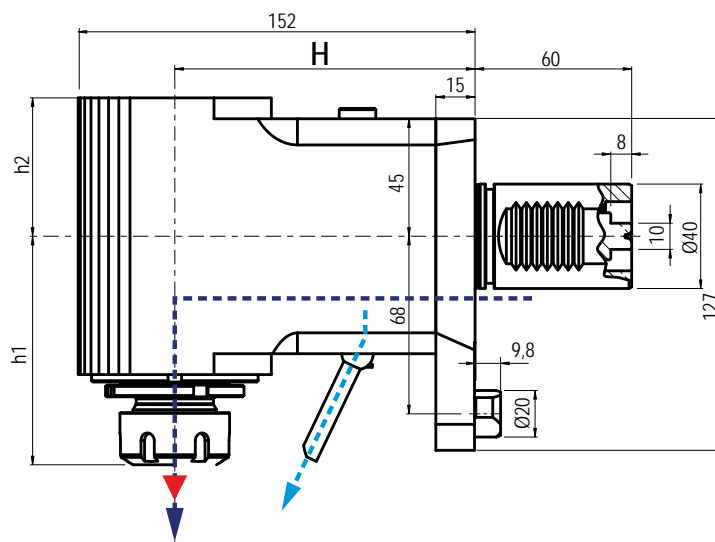
Cod.	Output	Int Cool.	H	h1	Nm	Rpm	p kw	
99.MZ.A14	ER-25 - Ø1÷16	NO	80	67,2	30	6.000	4	
99.MZ.A15	ER-25 - Ø1÷16	√	80	67,2	30	6.000	4	

HYPER QUADREX 150MY / 200MSY / MULTIPLEX 610 / 615 / 620 / 625 / 6200 / 6250 16 STATION TURRET

 Assiale - Portapinza
Axial - Collet Chuck
80 BAR

 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:1

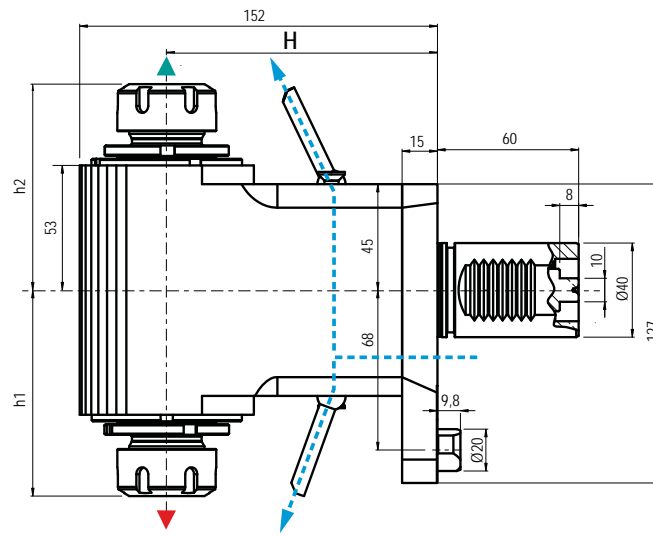
Cod.	Output	Int Cool	H	Nm	Rpm	p kw	
99.MZ.A31	ER-25 - Ø1÷16	√	Max 116	50	6.000	8	


 Radiale - Portapinza
Radial - Collet Chuck
80 BAR

 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:1

Cod.	Output	Int Cool.	H	h1	h2	Nm	Rpm	p kw	
99.MZ.A37	ER-25 - Ø1÷16	√	115	87,5	53	50	6.000	8	

HYPER QUADREX 150MY / 200MSY / MULTIPLEX 610 / 615 / 620 / 625 / 6200 / 6250 16 STATION TURRET


Doppio - Portapinza
 Double - Collet Chuck



Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle



Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle



RATIO
1:1

Cod.	OEM Ref.	Output	Int Cool	H	h1	h2	Nm	Rpm	
99.MZ.A35	-	ER-25-25 - Ø1=16	NO	115	Max 87,5	Max 87,5	50	6.000	

NEW!

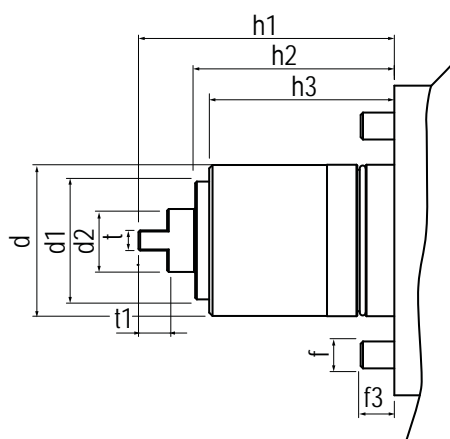
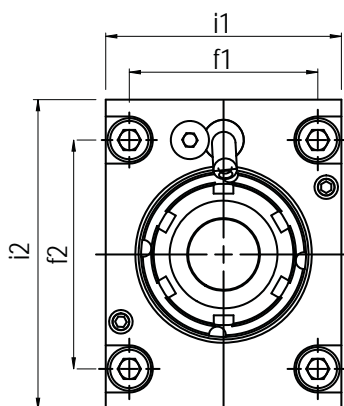
NUOVA SERIE
NEW SERIES

MIYANO MOTORIZZATI - DRIVEN TOOLS



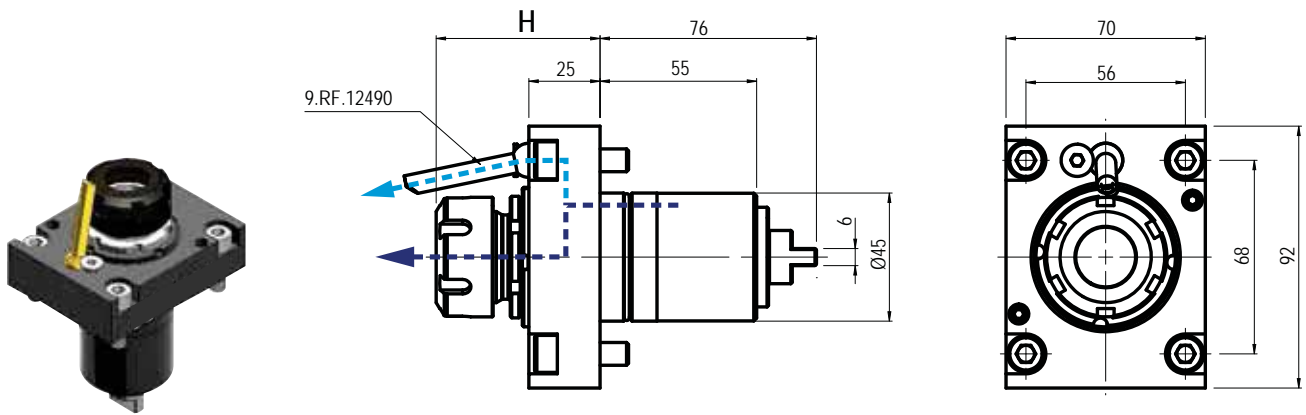
DOTAZIONE STANDARD
STANDARD EQUIPMENT

Chiave bloccaggio albero / ugello
refrigerazione / vite bloccaggio ugello /
viti bloccaggio motorizzato / O-ring
Tool shaft lock wrench / cooling nozzle
locking screws / driven tool
locking screws / O-ring

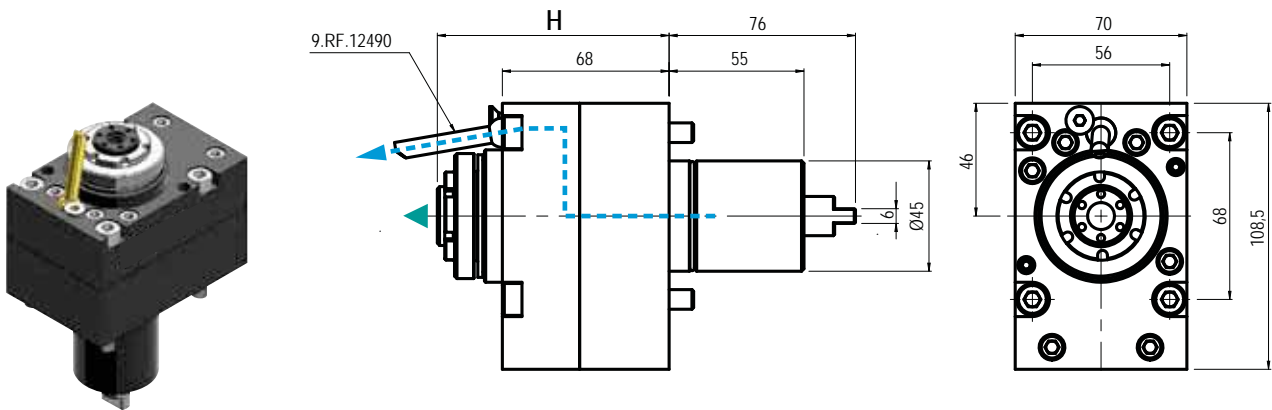


MIYANO	d	d1	d2	f	f1	f2	f3	h1	h2	h3	i1	i2	t	t1
Ø 45	45	35	19	M8	56	68	10	76	59	55	92	70	12	8,5
Ø 54	54	-	-	-	75	60	-	72	50	-	90	100	8	-

N.B: Verifica compatibilità motorizzati a pagina 5.2 - 5.3 - Check the driven tools compatibility at page 5.2 - 5.3

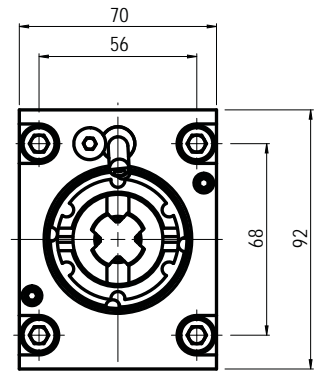
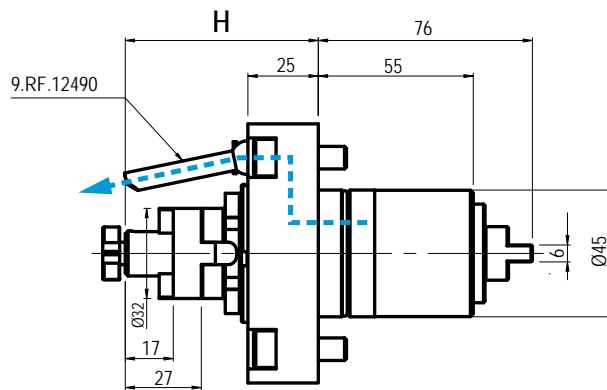
ABX 51/64 TH2/TH3 - BNE 34/42 - BNJ 42/51

 Assiale - Portapinza
 Axial - Collet Chuck

Cod.	Output	Int Cool	H	Nm	Rpm	p kw	
99.MY.A02	ER-25 - Ø1÷16	NO	Max 57,6	35	6.000	6	
99.MY.A03 •	ER-25 - Ø1÷16	√	57,6	35	6.000	6	
99.MY.A15	ER-32 - Ø2÷20	NO	64,3	35	6.000	6	
99.MY.A16 •	ER-32 - Ø2÷20	√	64,3	35	6.000	6	

5

 Assiale - Portapinza
 Axial - Collet Chuck

 Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle

Cod.	Output	Int Cool	H	Nm	Rpm	p kw	
99.MY.A01	ER-16 - EF - Ø1÷10	NO	94,5	6	24.000	3	

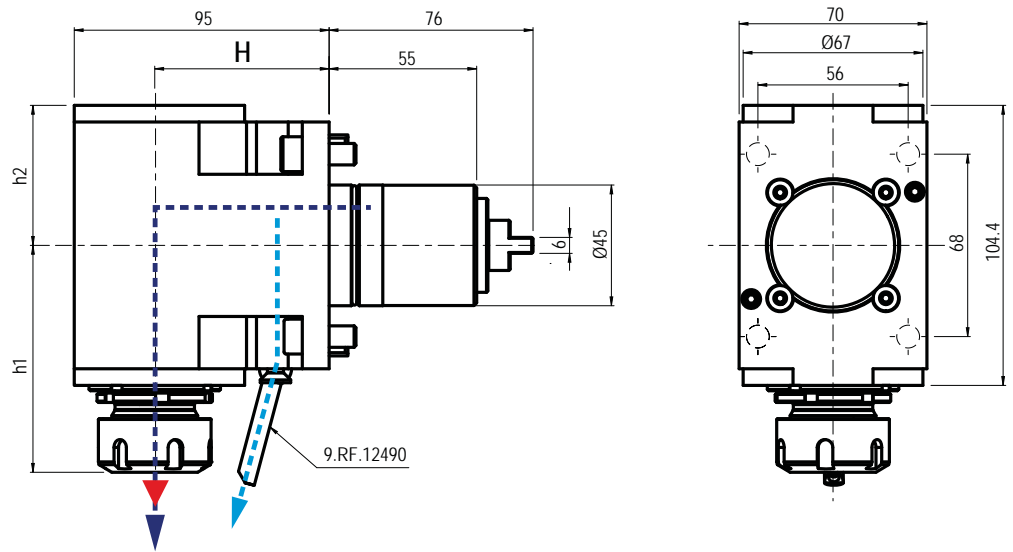
ABX 51/64 TH2/TH3 - BNE 34/42 - BNJ 42/51


Assiale - Portafresa
Axial - Shell End Milling Cutter



RATIO
1:1

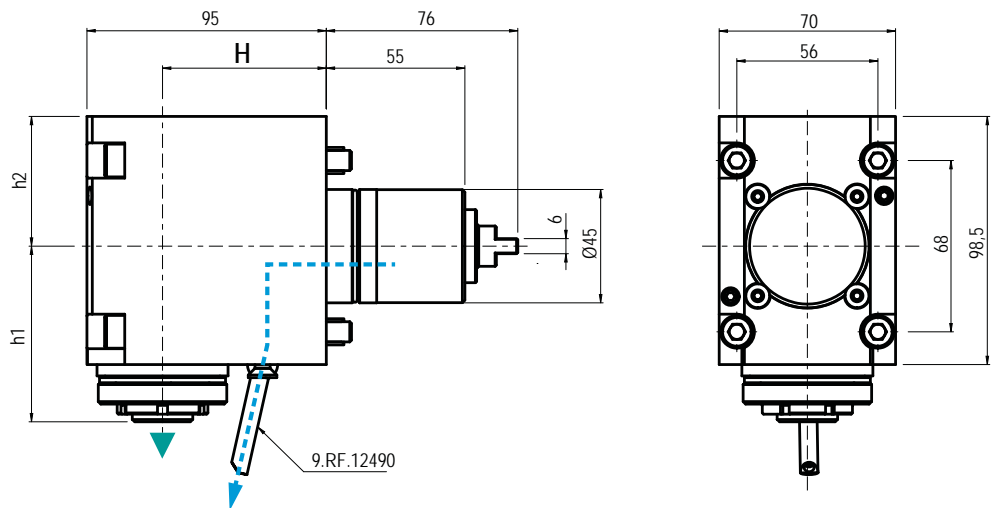
Cod.	Output	Int Cool	H	Nm	Rpm	p kw	
99.MY.A14	PF-16	NO	68,5	35	6.000	6	

ABX 51/64 TH2/TH3 - BNE 34/42 - BNJ 42/51

 Radiale - Portapinza
Radial - Collet Chuck

 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

 RATIO
1:1

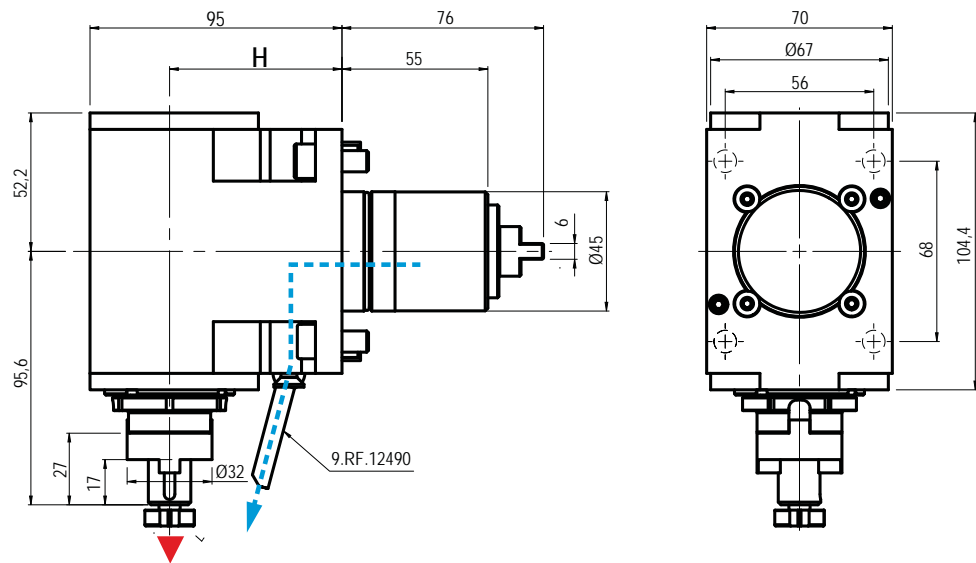
Cod.	Output	Int Cool	H	h1	h2	Nm	Rpm	p kw	
99.MY.A05	ER-25 - Ø1÷16	NO	65	Max 84,6	52,2	35	6.000	6	
99.MY.A06 •	ER-25 - Ø1÷16	√	65	Max 84,6	52,2	35	6.000	6	

5

 Radiale - Portapinza
Radial - Collet chuck

 Senso di rotazione uguale al mandrino
 Direction of rotation same to machine spindle

 RATIO
1:4

Cod.	Output	Int Cool	H	h1	h2	Nm	Rpm	p kw	
99.MY.A04	ER-16 - EF - Ø1÷10	NO	65	69,7	51,5	6	24.000	3	

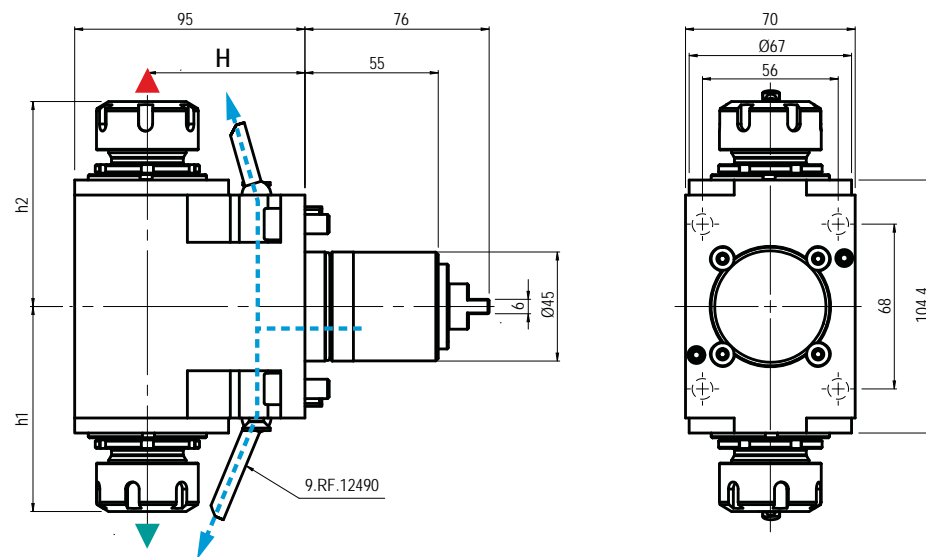
ABX 51/64 TH2/TH3 - BNE 34/42 - BNJ 42/51


Radiale - Portafresa
Radial - Shell End Milling Cutter

Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:1

Cod.	Output	Int Cool	H	Nm	Rpm	p kw	
99.MY.A17	PF-16	NO	65	35	6.000	6	



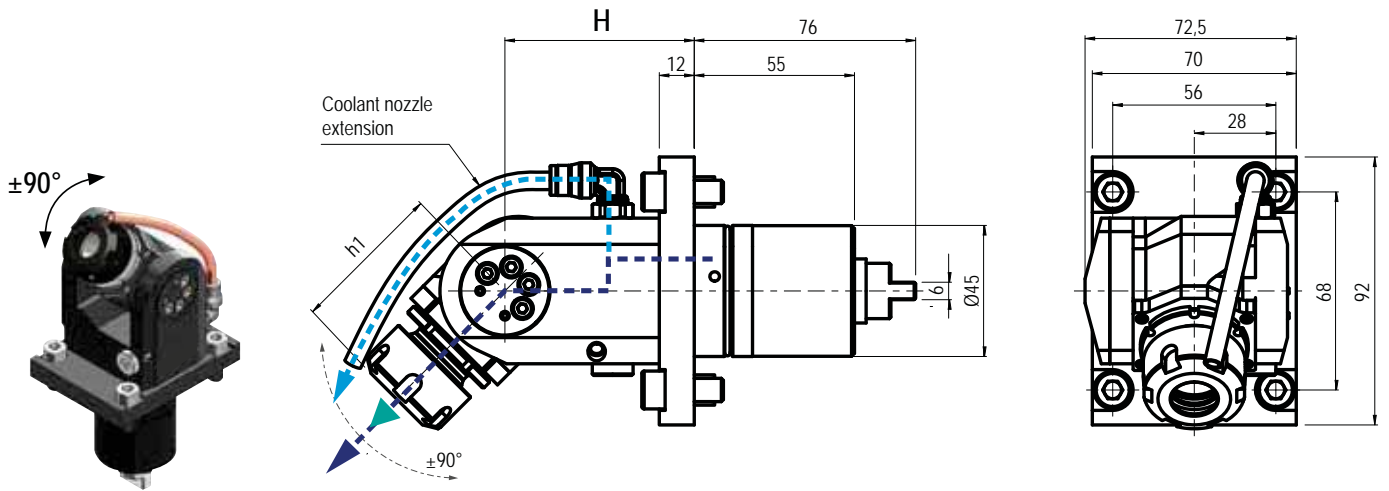
Doppio - Portapinza
Double - Collet Chuck

Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle

Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:1

Cod.	Output	Int Cool	H	h1	h2	Nm	Rpm	p kw	
99.MY.A07	ER-25-25 - Ø1÷16	NO	65	84,6	84,6	35	6.000	6	

ABX 51/64 TH2/TH3 - BNE 34/42 - BNJ 42/51


Orientabile - Portapinza

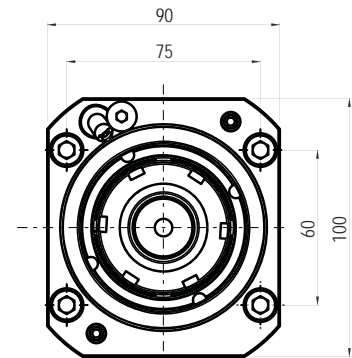
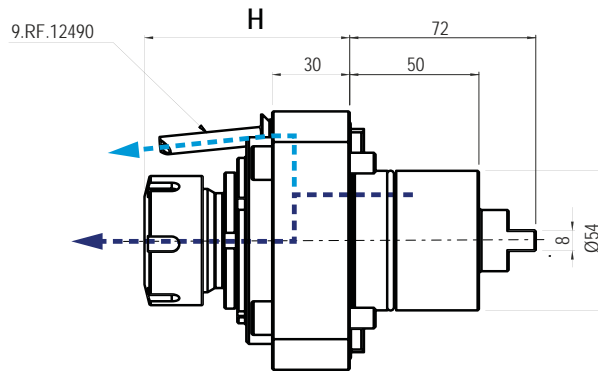
Adjustable Angle - Collet Chuck

80 BAR

 Senso di rotazione uguale al mandrino
 Direction of rotation same to machine spindle

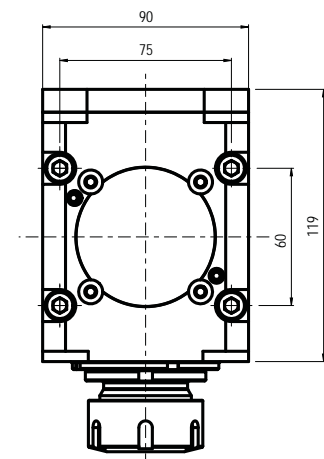
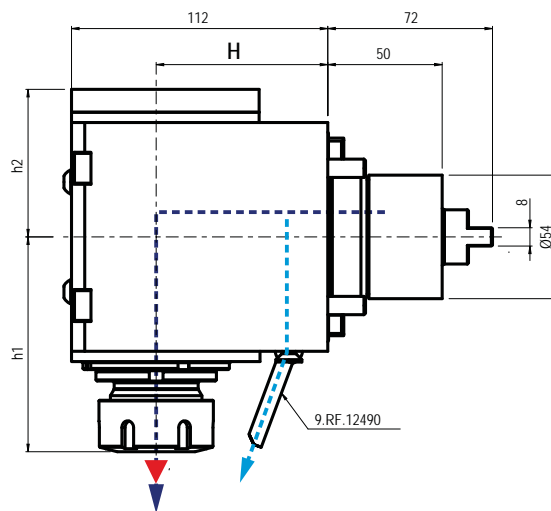
RATIO
1:1

Cod.	Output	Int Cool	H	h1	Nm	Rpm	p kw	
99.MY.A08	ER-20 - Ø1÷13	NO	65	Max 52,5	15	6.000	3	
99.MY.A13 •	ER-20 - Ø1÷13	√	65	Max 52,5	15	6.000	3	

ABX 51/64 THY - ABX 51/64 SYU

 Assiale - Portapinza
Axial - Collet Chuck
80 BAR

RATIO
1:1

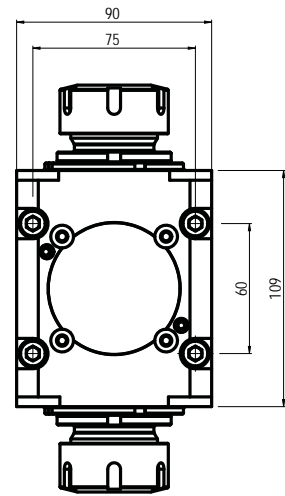
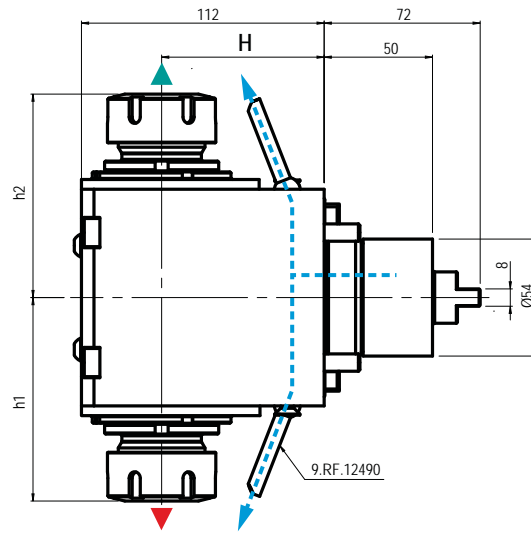
Cod.	Output	Int Cool	H	Nm	Rpm	p kw	
99.MY.A09	ER-32 - Ø2÷20	NO	Max 79,4	60	6.000	10	
99.MY.A10 •	ER-32 - Ø2÷20	√	Max 79,4	60	6.000	10	


 Radiale - Portapinza
Radial - Collet Chuck
80 BAR

 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:1

Cod.	Output	Int Cool	H	h1	h2	Nm	Rpm	p kw	
99.MY.A11	ER-32 - Ø2÷20	NO	75	Max 93,9	54,5	60	6.000	10	
99.MY.A12 •	ER-32 - Ø2÷20	√	75	Max 93,9	64,5	60	6.000	10	

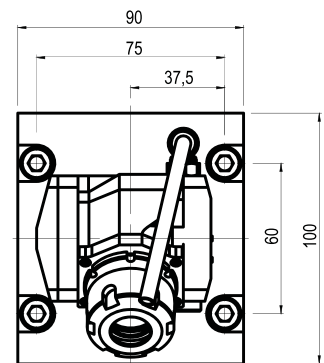
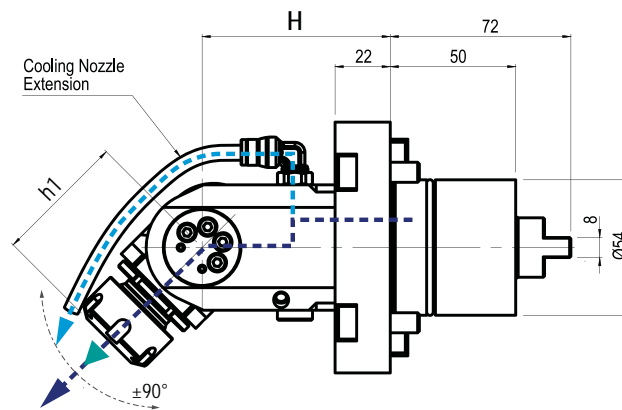
ABX 51/64 THY - ABX 51/64 SYT


Doppio - Portapinza
Double - Collet Chuck

- Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle
- Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO 1:1

Cod.	Output	Int Cool	H	h1	h2	Nm	Rpm	p kw	
99.MY.A18	ER-32-32 - Ø2±20	NO	75	93,9	93,9	60	6.000	10	

5


Orientabile - Portapinza
Adjustable Angle - Collet Chuck

80 BAR

- Senso di rotazione uguale al mandrino
 Direction of rotation same to machine spindle

RATIO 1:1

Cod.	Output	Int Cool	H	h1	Nm	Rpm	p kw	
99.MY.A19	ER-20 - Ø1±13	NO	75	Max 52,2	15	6.000	3	
99.MY.A20 •	ER-20 - Ø1±13	√	75	Max 52,2	15	6.000	3	

NEW!

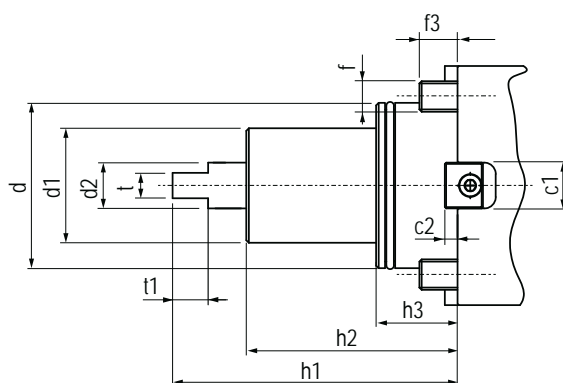
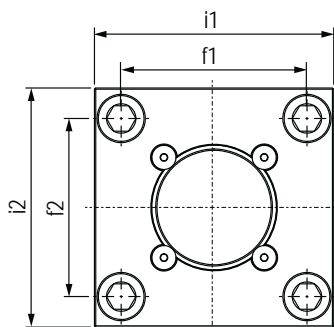
SERIE BMT65
BMT65 SERIES

NAKAMURA MOTORIZZATI - DRIVEN TOOLS



DOTAZIONE STANDARD
STANDARD EQUIPMENT

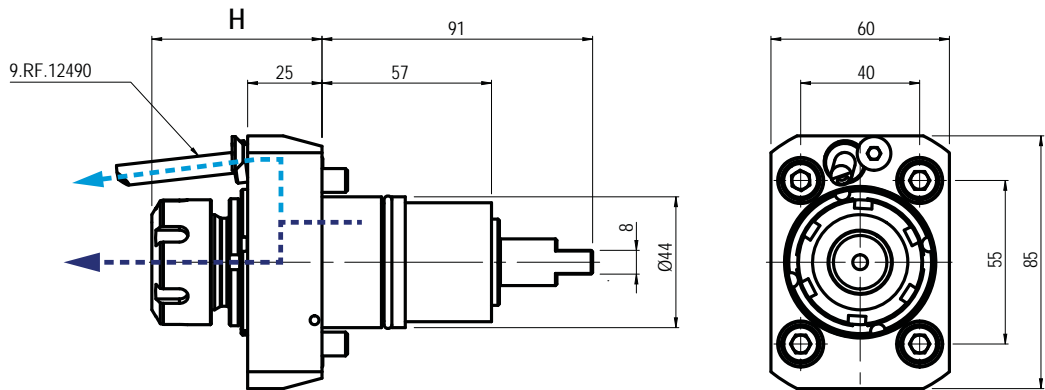
Chiave bloccaggio albero / ugello
refrigerazione / vite bloccaggio ugello
/ viti bloccaggio motorizzato / O-ring
Tool shaft lock wrench / cooling
nozzle / nozzle lock screws / driven
tool locking screws / O-ring



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

N.B: Verifica compatibilità motorizzati a pagina 5.2 - 5.3 - Check the driven tools compatibility at page 5.2 - 5.3

WT100 - NTY3



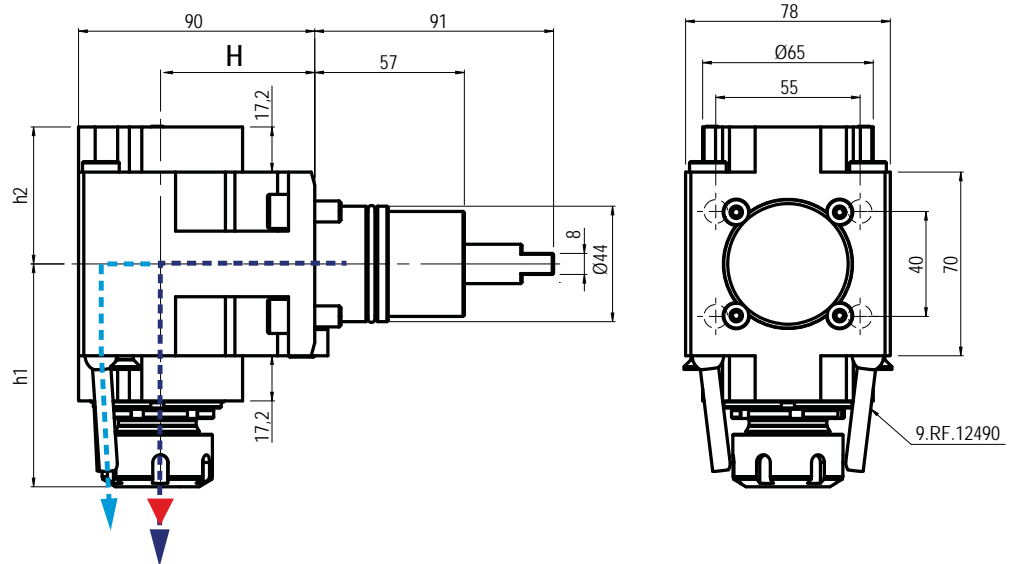
Assiale - Portapinza
Axial - Collet Chuck

70 BAR

RATIO
1:1

Cod.	Output	Int Cool	H	Nm	Rpm	p kw	
99.NK.A40	ER-25 - $\varnothing 1 \div 16$	NO	Max 57,2	40	6.000	6	
99.NK.A43 •	ER-25 - $\varnothing 1 \div 16$	√	Max 57,2	40	6.000	6	

5



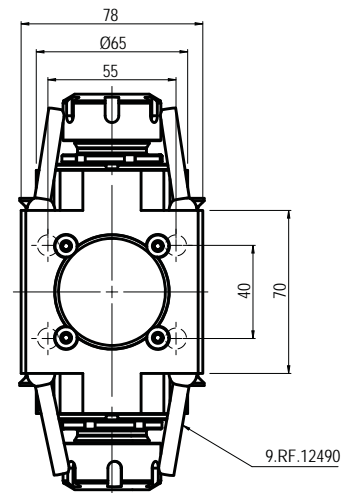
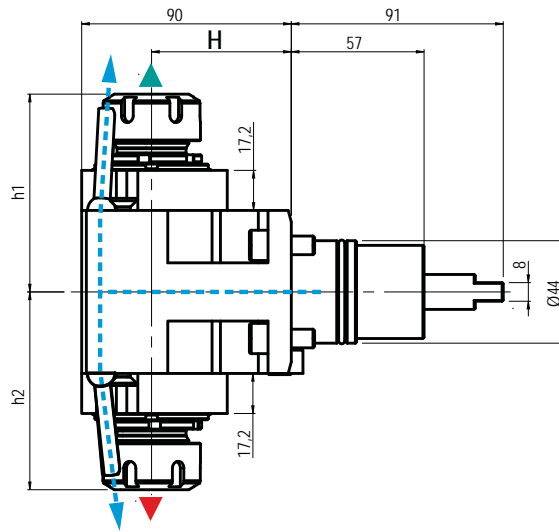
Radiale - Portapinza
Radial - Collet Chuck

70 BAR

Senso di rotazione contrario al mandrino
Direction of rotation opposite to machine spindle

RATIO
1:1

Cod.	Output	Int Cool	H	h1	h2	Nm	Rpm	p kw	
99.NK.A50	ER-25 - $\varnothing 1 \div 16$	NO	60	Max 84,9	52,2	40	6.000	6	
99.NK.A53 •	ER-25 - $\varnothing 1 \div 16$	√	60	Max 84,9	52,2	40	6.000	6	
99.NK.A30	ER-25 - $\varnothing 1 \div 16$	NO	75	Max 84,9	52,2	40	6.000	6	
99.NK.A33 •	ER-25 - $\varnothing 1 \div 16$	√	75	Max 84,9	52,2	40	6.000	6	

WT100 - NTY3


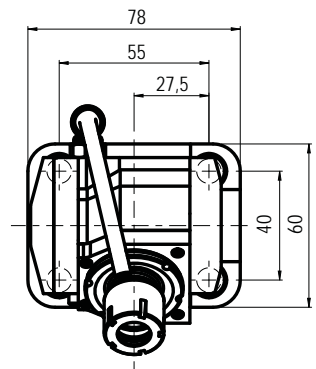
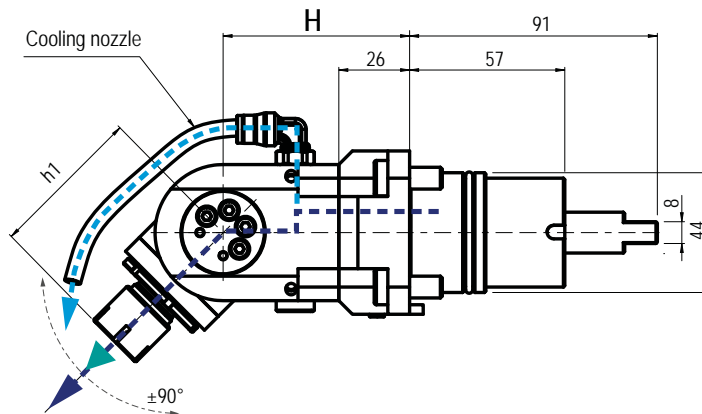
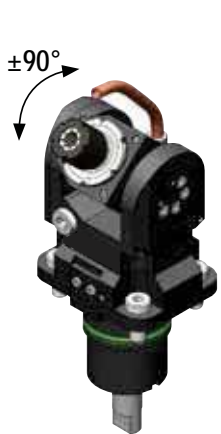
Doppio - Portapinza
 Double - Collet Chuck

Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle

Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:1

Cod.	Output	Int Cool	H	h1	h2	Nm	Rpm	p kw	
99.NK.A70	ER-25-25 - Ø1÷16	NO	60	Max 84,9	Max 84,9	40	6.000	6	
99.NK.A80	ER-25-25 - Ø1÷16	NO	75	Max 84,9	Max 84,9	40	6.000	6	



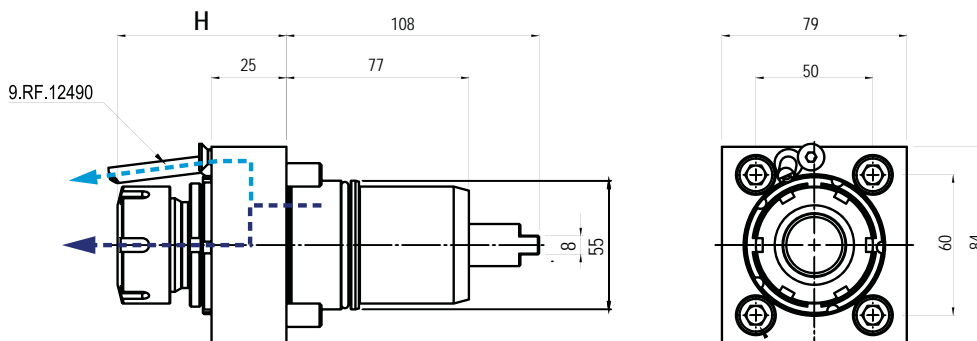
Orientabile - Portapinza
 Adjustable Angle - Collet Chuck

70 BAR

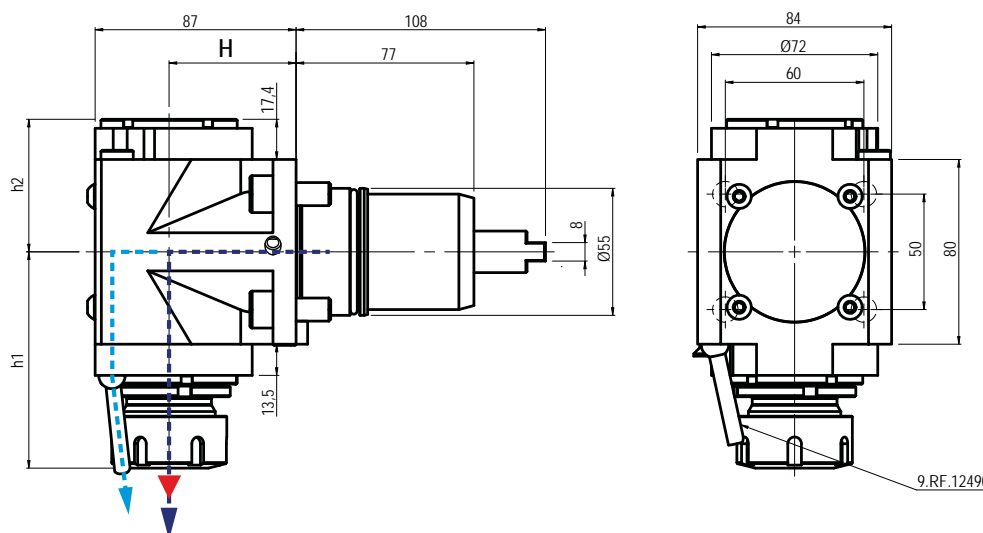
Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle

RATIO
1:1

Cod.	Output	Int Cool	H	h1	Nm	Rpm	p kw	
99.NK.A59	ER-16 - Ø1÷10	NO	68,5	Max 56,5	10	6.000	2	
99.NK.A69 •	ER-16 - Ø1÷10	√	68,5	Max 56,5	10	6.000	2	

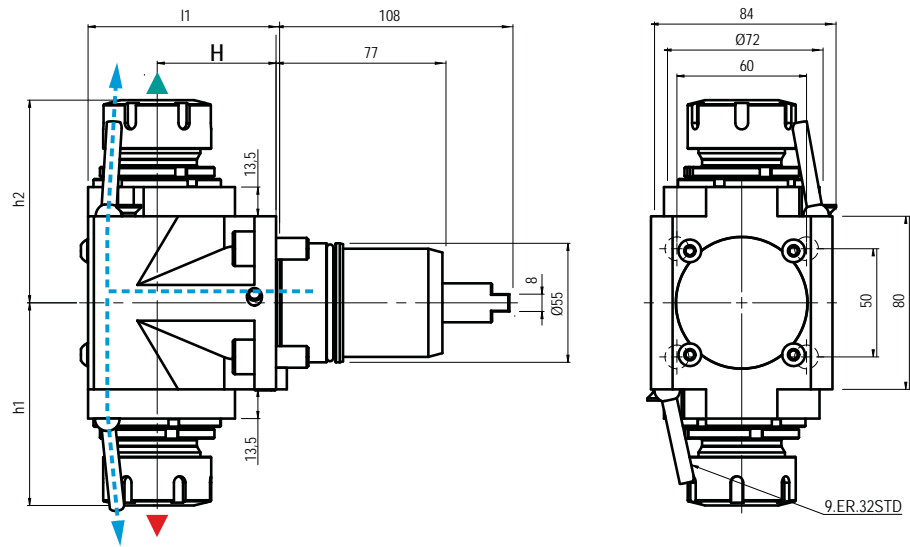
SUPER NTJ-NTJX / NTM3 / TMC 18 / TW 10 / SC150-250 / WT150-250 / WTW 150 / WTS 150

 Assiale - Portapinza
 Axial - Collet Chuck

Cod.	Output	Int Cool	H	Nm	Rpm	p kw	
99.NK.A03	ER-32 - Ø2÷20	NO	Max 72,2	63	6.000	10	
99.NK.A04 •	ER-32 - Ø2÷20	√	Max 72,2	63	6.000	10	


 Radiale - Portapinza
 Radial - Collet Chuck

 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

Cod.	Output	Int Cool	H	h1	h2	Nm	Rpm	p kw	
99.NK.A13	ER-32 - Ø2÷20	NO	55	Max 93,7	57,4	63	6.000	10	
99.NK.A14 •	ER-32 - Ø2÷20	√	55	Max 93,7	63,7	63	6.000	10	
99.NK.A23	ER-32 - Ø2÷20	NO	65	Max 93,7	57,4	63	6.000	10	
99.NK.A24 •	ER-32 - Ø2÷20	√	65	Max 93,7	63,7	63	6.000	10	
99.NK.A15	ER-32 - Ø2÷20	NO	75	Max 93,7	57,4	63	6.000	10	
99.NK.A16 •	ER-32 - Ø2÷20	√	75	Max 93,7	63,7	63	6.000	10	

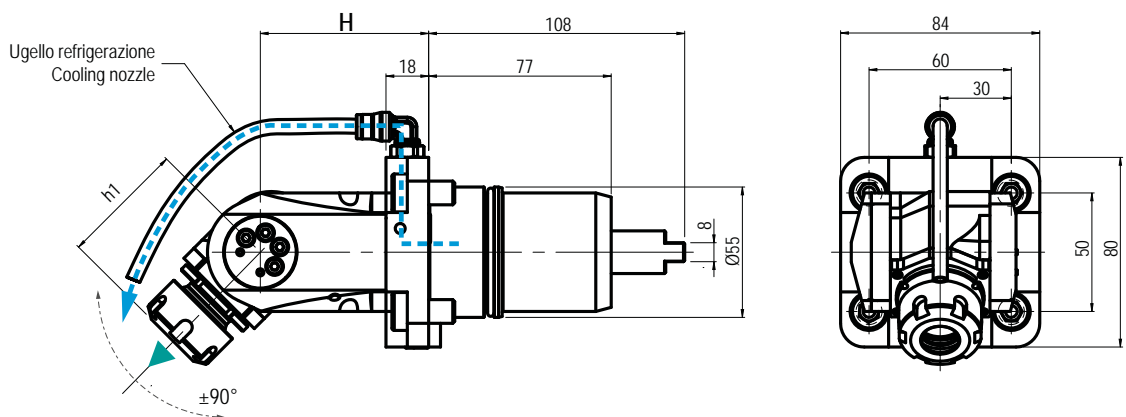
SUPER NTJ-NTJX / NTM3 / TMC 18 / TW 10 / SC150-250 / WT150-250 / WTW 150 / WTS 150


Doppio - Portapinza
 Double - Collet Chuck

- Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle
- Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:1

Cod.	Output	Int Cool	H	h1	h2	l1	Nm	Rpm	p kw	
99.NK.A71	ER-32 - $\varnothing 2+20$	NO	55	Max 93,7	Max 93,7	87	63	6.000	10	
99.NK.A81	ER-32 - $\varnothing 2+20$	NO	65	Max 93,7	Max 93,7	97	63	6.000	10	
99.NK.A91	ER-32 - $\varnothing 2+20$	NO	75	Max 93,7	Max 93,7	107	63	6.000	10	



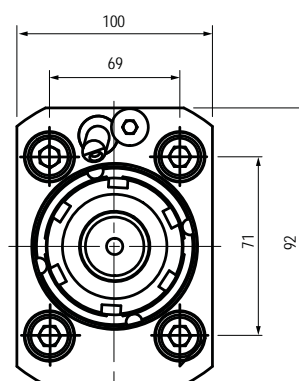
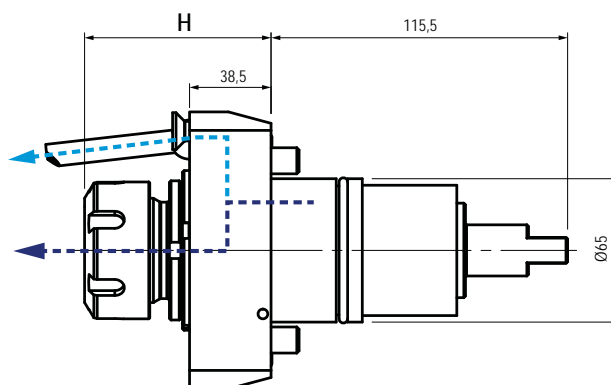
Orientabile - Portapinza
 Adjustable Angle - Collet Chuck

70 BAR

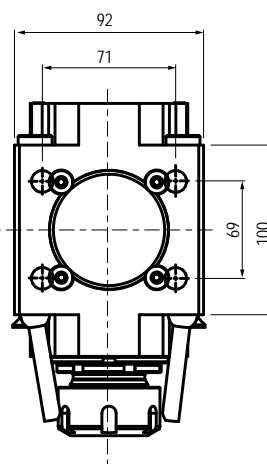
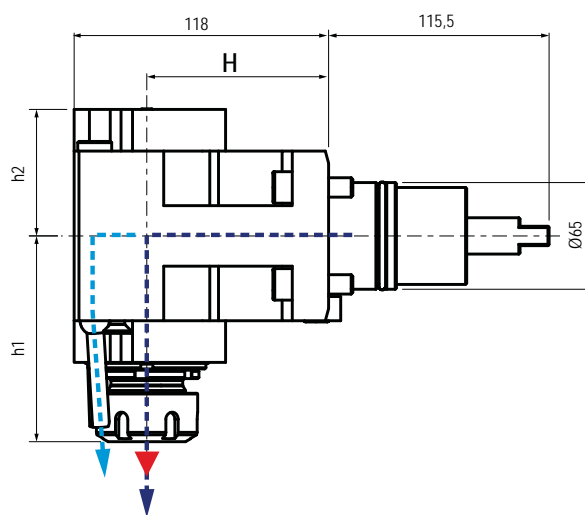
- Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle

RATIO
1:1

Cod.	Output	Int Cool	H	h1	Nm	Rpm	p kw	
99.NK.A22	ER-20 - $\varnothing 1+13$	NO	71	Max 52,5	15	6.000	3	
99.NK.A32	ER-20 - $\varnothing 1+13$	✓	71	Max 52,5	15	6.000	3	

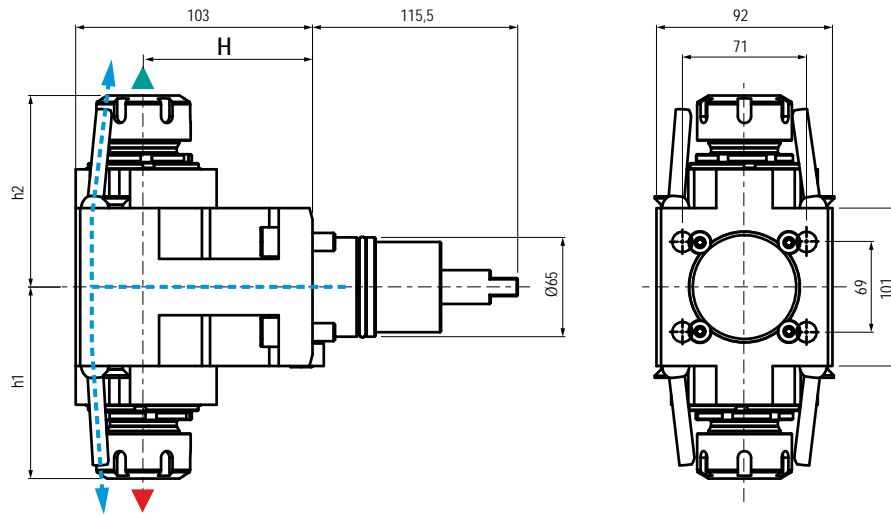
TW20 / SC300 / WT 300

 Assiale - Portapinza
 Axial - Collet Chuck

Cod.	Output	Int Cool	H	Nm	Rpm	p kw	
99.NK.A51	ER-32 - Ø2÷20	NO	Max 77,9	63	6000	10	
99.NK.A52	ER-32 - Ø2÷20	√	Max 77,9	63	6000	10	

5

 Radiale - Portapinza
 Radial - Collet Chuck

 Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

Cod.	Output	Int Cool	H	h1	h2	Nm	Rpm	p kw	
99.NK.A58	ER-32 - Ø2÷20	NO	65	Max 93,9	54,5	63	6000	10	
99.NK.A62	ER-32 - Ø2÷20	√	65	Max 93,9	54,5	63	6000	10	

TW20 / SC300 / WT 300


Doppio - Portapinza
 Double - Collet Chuck

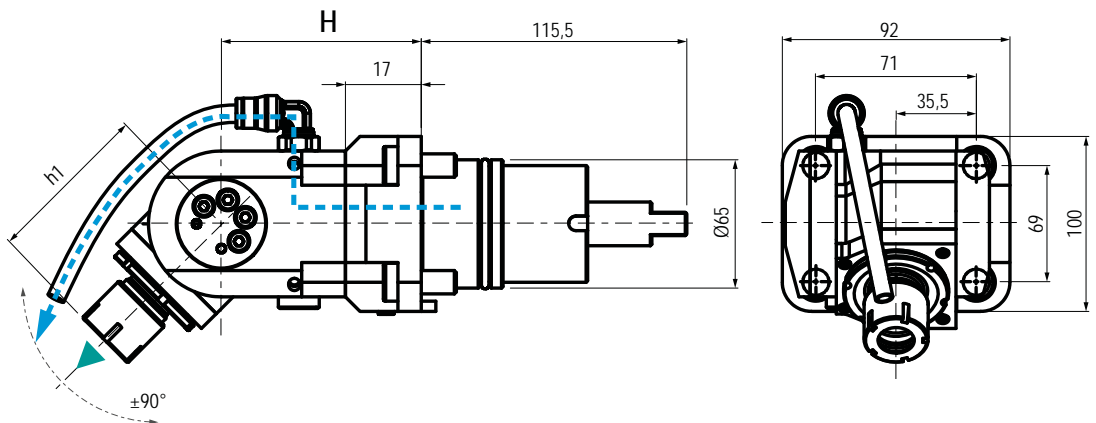
70 BAR

▲ Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle

▼ Senso di rotazione contrario al mandrino
 Direction of rotation opposite to machine spindle

RATIO
1:1

Cod.	Output	Int Cool	H	h1	h2	Nm	Rpm	p kw	
99.NK.A78	ER-32-32 - Ø2=20	NO	65	Max 93,9	93,9	63	6000	10	



Orientabile - Portapinza
 Adjustable Angle - Collet Chuck

▲ Senso di rotazione uguale al mandrino
 Direction of rotation same as machine spindle

RATIO
1:1

Cod.	Output	Int Cool	H	h1	Nm	Rpm	p kw	
99.NK.A82	ER-25 - Ø1=16	NO	80	Max 67,2	25	6000	4	

CAMBIO RAPIDO

QUICK CHANGE SYSTEM

PER **GHIERE INTERNA** CON FILETTO ESTERNO - FOR **INTERNAL NUTS** WITH EXTERNAL THREAD



PREPARARE IL MOTORIZZATO:

- 1) Togliere pinza e ghiera di serraggio
- 2) Introdurre l'adattatore per ghiera interna
- 3) Stringere la ghiera dell'adattatore

SET THE DRIVEN TOOLS:

- 1) Remove collet and clamping nut.
- 2) Import adapter for internal nut
- 3) Tighten clamping nut



Art. 182A
DIN 6499

- Portapinza
- Collet chuck



Art. 182B
DIN 6358

- Portafresa
- Shell end mill cutter



Art. 182C
DIN 1835

- Mandrino di chiusura
per codolo cilindrico
- Clamping chuck
for round shaft dia

ENTRATA Cambio rapido Quick change INPUT	L	USCITA Cambio rapido Quick change OUTPUT	Cod.
ER20	31,0	ER16	9.CT.ER2016IN
	35,0	ER20	9.CT.ER2020IN
ER25	35,0	ER16	9.CT.ER2516IN
	36,0	ER20	9.CT.ER2520IN
	39,0	ER25	9.CT.ER2525IN
ER32	36,0	ER16	9.CT.ER3216IN
	37,5	ER20	9.CT.ER3220IN
	44,0	ER25	9.CT.ER3225IN
ER40	44,0	ER32	9.CT.ER3232IN
	34,0	ER16	9.CT.ER4016IN
	38,0	ER20	9.CT.ER4020IN
	39,5	ER25	9.CT.ER4025IN
ER40	41,5	ER32	9.CT.ER4032IN
	43,5	ER40	9.CT.ER4040IN

ENTRATA Cambio rapido Quick change INPUT	L	USCITA Cambio rapido Quick change OUTPUT	Cod.
ER25	34,0	Ø16	9.CT.ER25.P16IN
ER32	34,0	Ø16	9.CT.ER32.P16IN
ER40	35,0	Ø16	9.CT.ER40.P16IN

ENTRATA Cambio rapido Quick change INPUT	L	USCITA Cambio rapido Quick change OUTPUT	Cod.
ER20	37,0	Ø10	9.CT.ER20.W10IN
ER25	34,0	Ø10	9.CT.ER25.W10IN
	38,0	Ø12	9.CT.ER25.W12IN
	40,0	Ø16	9.CT.ER25.W16IN
ER32	38,5	Ø10	9.CT.ER32.W10IN
	41,0	Ø12	9.CT.ER32.W12IN
	46,5	Ø16	9.CT.ER32.W16IN
	50,0	Ø20	9.CT.ER32.W20IN
ER40	32,0	Ø10	9.CT.ER40.W10IN
	41,0	Ø12	9.CT.ER40.W12IN
	45,0	Ø16	9.CT.ER40.W16IN
	43,0	Ø20	9.CT.ER40.W20IN
	47,0	Ø25	9.CT.ER40.W25IN

CAMBIO RAPIDO QUICK CHANGE SYSTEM

PER GHIERE ESTERNE CON FILETTO INTERNO - FOR EXTERNAL NUTS WITH INTERNAL THREAD



PREPARARE IL MOTORIZZATO:

- 1) Togliere pinza e ghiera di serraggio
- 2) Introdurre l'adattatore per ghiera esterna
- 3) Stringere la ghiera dell'adattatore

SET THE DRIVEN TOOLS:

- 1) Remove collet and clamping nut.
- 2) Import adapter for external nut
- 3) Tighten clamping nut



Art. 182A
DIN 6499
- Portapinza
- Collet chuck



Art. 182B
DIN 6358
- Portafresa
- Shell end mill cutter



Art. 182C
DIN 1835
- Mandrino di chiusura
per codolo cilindrico
- Clamping chuck
for round shaft dia

ENTRATA Cambio rapido Quick change INPUT	L	USCITA Cambio rapido Quick change OUTPUT	Cod.	
ER20	31,0	ER16	9.CT.ER2016ES	
	35,0	ER20	9.CT.ER2020ES	
ER25	35,0	ER16	9.CT.ER2516ES	
	36,0	ER20	9.CT.ER2520ES	
	39,0	ER25	9.CT.ER2525ES	
ER32	36,0	ER16	9.CT.ER3216ES	
	37,5	ER20	9.CT.ER3220ES	
	44,0	ER25	9.CT.ER3225ES	
ER40	44,0	ER32	9.CT.ER3232ES	
	34,0	ER16	9.CT.ER4016ES	
	38,0	ER20	9.CT.ER4020ES	
	39,5	ER25	9.CT.ER4025ES	
ER40	41,5	ER32	9.CT.ER4032ES	
	43,5	ER40	9.CT.ER4040ES	

ENTRATA Cambio rapido Quick change INPUT	L	USCITA Cambio rapido Quick change OUTPUT	Cod.	
ER25	34,0	Ø16	9.CT.ER25.P16ES	
ER32	34,0	Ø16	9.CT.ER32.P16ES	
ER40	35,0	Ø16	9.CT.ER40.P16ES	

ENTRATA Cambio rapido Quick change INPUT	L	USCITA Cambio rapido Quick change OUTPUT	Cod.	
ER20	37,0	Ø10	9.CT.ER20.W10ES	
	34,0	Ø10	9.CT.ER25.W10ES	
ER25	38,0	Ø12	9.CT.ER25.W12ES	
	40,0	Ø16	9.CT.ER25.W16ES	
ER32	38,5	Ø10	9.CT.ER32.W10ES	
	41,0	Ø12	9.CT.ER32.W12ES	
	46,5	Ø16	9.CT.ER32.W16ES	
	50,0	Ø20	9.CT.ER32.W20ES	
ER40	32,0	Ø10	9.CT.ER40.W10ES	
	41,0	Ø12	9.CT.ER40.W12ES	
	45,0	Ø16	9.CT.ER40.W16ES	
	43,0	Ø20	9.CT.ER40.W20ES	
	47,0	Ø25	9.CT.ER40.W25ES	

PINZE - COLLETS

ER-DIN 6499

PINZE - COLLETS

ET-1

PRECISIONE - RUN OUT

≤ 0,010



Pinza ER Collet
Art. 170/ER



Pinza ET-1 Collet
Art. 170/C

Foratura-fresatura / Drilling-milling

PINZA COLLET	Ø	Cod.	
ER 11	Ø1 / 7	9.ER.11000 / 1 (Ø1)	
ER 16	Ø1 / 10	9.ER.16000 / 1 (Ø1)	
ER 20	Ø1 / 13	9.ER.20000 / 1 (Ø1)	
ER 25	Ø1 / 16	9.ER.25000 / 1 (Ø1)	
ER 32	Ø2 / 20	9.ER.32000 / 2 (Ø2)	
ER 40	Ø3 / 30	9.ER.40000 / 3 (Ø3)	

Maschiatura / Tapping

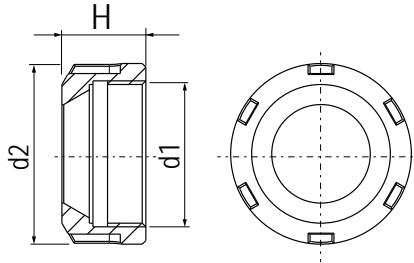
PINZA ET1 (compensate) COLLET ET1 (compensation)	Ø	Cod.	
-		-	
ET 1-16 (M2 - M8)	Ø1,4 / 6	9.ET.16000	
ET 1-20 (M2 - M8)	Ø2,2 / 7	9.ET.20000	
ET 1-25 (M2 - M12)	Ø2,5 / 10	9.ET.25000	
ET 1-32 (M3,5 - M16)	Ø4,5 / 12,5	9.ET.32000	
ET 1-32 (M6 - M16)	Ø6 / 15	9.ET.32000	

GHIERE - NUTS STD - EF

CHIAVI - WRENCHES STD - EF



Ghiera STD Nut
Art. 172



Chiave STD Wrench
Art. 172/CH

Ghiera standard - Standard Nut

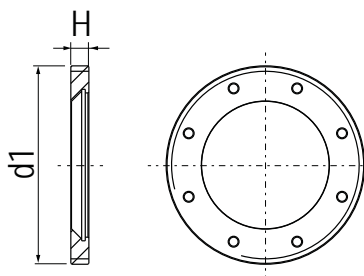
Chiave per ghiera standard - Wrench for standard nut

TIPO GHIERA NUT TYPE	d1	d2	H	Cod.	
ER16 STD	M22x1,5	32	17,5	9.ER.16STD	
ER20 STD	M25x1,5	35	19	9.ER.20STD	
ER25 STD	M32x1,5	42	20	9.ER.25STD	
ER32 STD	M40x1,5	50	22,5	9.ER.32STD	
ER40 STD	M50x1,5	63	25,5	9.ER.40STD	
ER50 STD	M64x1,5	48	35,5	9.ER.50STD	

CHIAVI WRENCHES	Cod.	
CH-16 STD	9.CH.16STD	
CH-20 STD	9.CH.20STD	
CH-25 STD	9.CH.25STD	
CH-32 STD	9.CH.32STD	
CH-40 STD	9.CH.40STD	
CH-50 STD	9.CH.50STD	



Ghiera EF Nut
Art. 173



Chiave EF Wrench
Art. 173/CH

Ghiera con filetto esterno e fori frontali
Nut with external thread and frontal holes

Ghiera con filetto esterno e fori frontali
Nut with external thread and frontal holes

TIPO GHIERA NUT TYPE	d1	H	Cod.	
ER-16 EF	M24x1	8	9.ER.160EF	
ER-20 EF	M28x1,5	11	9.ER.200EF	
ER-25 EF	M32x1,5	12,5	9.ER.250EF	
ER-32 EF	M40x1,5	14	9.ER.320EF	

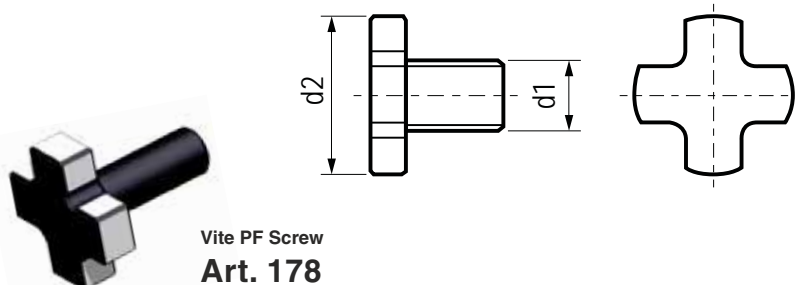
CHIAVI WRENCHES	Cod.	
CH-16 EF	9.CH.160EF	
CH-20 EF	9.CH.200EF	
CH-25 EF	9.CH.250EF	
CH-32 EF	9.CH.320EF	

VITI - SCREWS

PF

CHIAVI - WRENCHES

PF



Vite PF Screw
Art. 178



Chiave PF Screw
Art. 178/CH

Vite di chiusura DIN6367 Portafresa - Shell end milling cutter Lock screw DIN6367

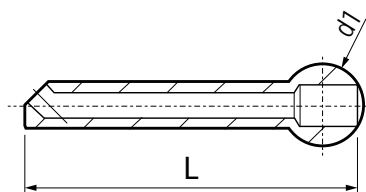
Chiave per vite di chiusura DIN6367 Wrench for lock screw

TIPO GHIERA NUT TYPE	d1	d2	Cod.	
PF-16 VT	M8	20	9.PF.160VT	
PF-22 VT	M10	28	9.PF.220VT	
PF-27 VT	M12	35	9.PF.270VT	

CHIAVI WRENCHES	Cod.	
CH-16 PF	9.CH.160VT	
CH-22 PF	9.CH.220VT	
CH-27 PF	9.CH.270VT	



Ugello - Noozle
Art. 183



Ugello di refrigerazione - Cooling nozzle extensions

d1	L	Cod.	
12	49	9.RF.12490	
12	38	9.RF.12380	
12	18	9.RF.12180	