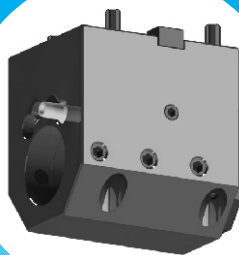
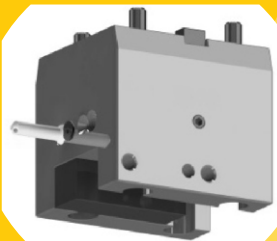
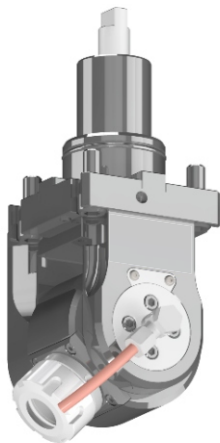
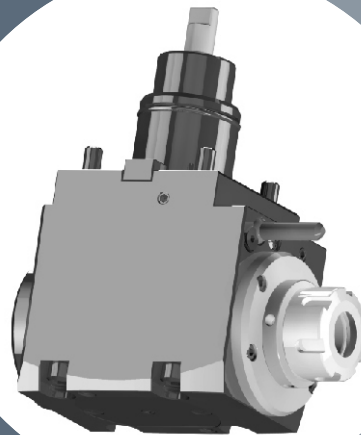


EuroDrive

Made In Europe

Live Tools Product Catalogue





EuroDrive provides its customers high quality Driven Tools and Static Tools for CNC lathes and Machining Centres. We offer a complete range of Driven Tool Holders for all major machines including Haas, Doosan, Okuma, Mazak, Mori Seiki, Jyoti, BFW and LMW.

EuroDrive delivers products that meet the highest standards of Performance, Quality and Service. All our products are manufactured in Europe in a modern and state of the art production facility to the highest quality standards of ISO 9001.

EuroDrive develops and produces products to meet our customers high technical requirements and specifications. Our team of highly trained & skilled technicians and application engineers collaborate with our customers to develop unique solutions.

EuroDrive produces Tool Holders for CNC lathes with axial, radial and adjustable style for BMT, VDI and BOT Turrets. Static Tools are offered for Turning, Boring, Face Grooving, Cut Off and Bar Pulling operations.

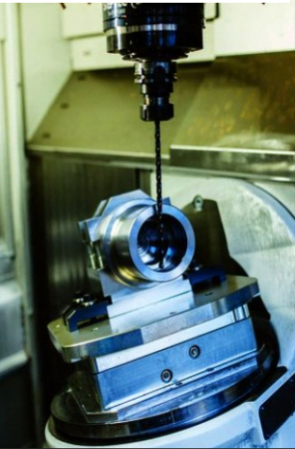
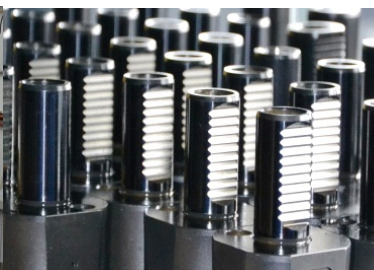
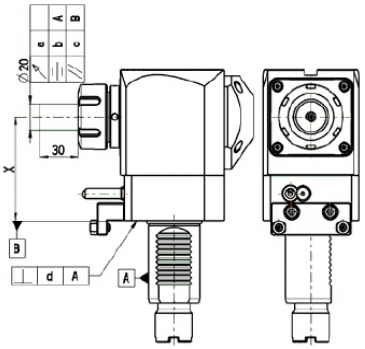
EuroDrive heads can be serviced or sent in for periodic maintenance to any one of our Authorized Service Centres located in the markets we serve.



Management System
ISO 9001:2015



	PART NAME :	RGT140251321180JD	April 17, 2019	12:13
	REV NUMBER :	SER NUMBER :	9002	STATS COUNT : 1



CONTENT

Specifications

Ordering System	2
Tool Orientation	8

BMT Turret Tools

BMT 45 Live	11
BMT 45 Static	13
BMT 55 Live	15
BMT 55 Static	18
BMT 65 Live	20
BMT 65 Static	23
HASS BOT Static	25
BMT 44 Nakamura	30
BMT 55 Nakamura	35
BMT 65 Nakamura	40
BMT 60 OKUMA	44
BMT 60 Mori Seiki	50

VDI Turret Tools


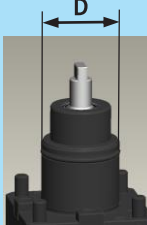
Sauter DIN 5482	54
Sauter DIN 5482	57
Diplomatic DIN 1809	61
Baruffaldi / TOEM	65
HAAS Turret	69
OKUMA	74
VDI Static DIN 69880	77

Accessories	83
--------------------	-----------




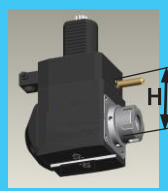

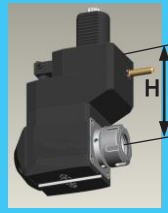
Operating instructions	84
-------------------------------	-----------

Maintenance Data Sheet	88
-------------------------------	-----------

LIVE TOOLHOLDER SYMBOLIZATION

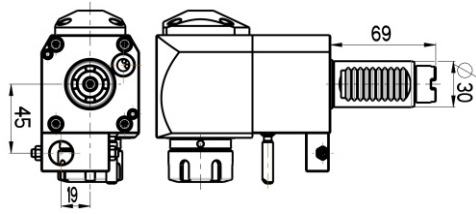
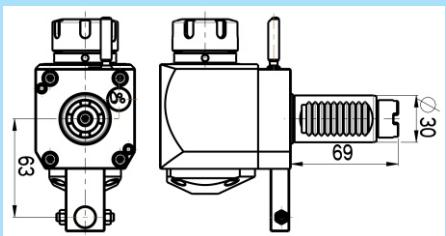
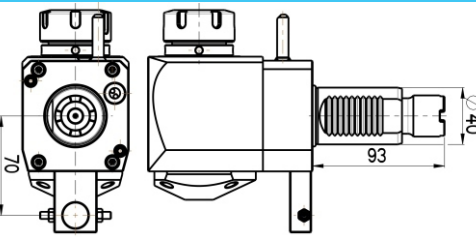
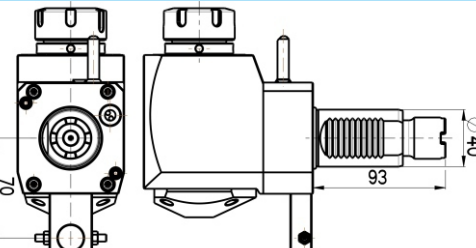
EDL	TURRET DATA		PRODUCT TYPE	COUPLING TYPE	TOOL GRIP	
	TYPE	D(mm)			TYPE	DIMENSION
	1	40	2	5	1	32
	1 - VDI		1 - STRAIGHT 2 - ANGULAR	1 - DIN 5482 2 - DIN 1809	1 - COLLET	SIZE COLLET 16/25/ 32 /40
	2 - BMT		3 - OFFSET STRAIGHT 4 - OFFSET ANGULAR 5 - VARIABLE ANGLE	3 - DIN 5480 4 - TOEM 5 - STEPPED	2 - WELDON 3 - SHELL MILL ARBOR	WELDON upon request SHELL MILL ARBOR upon request

Example: EDL1- 40/251-32/2.2-80A

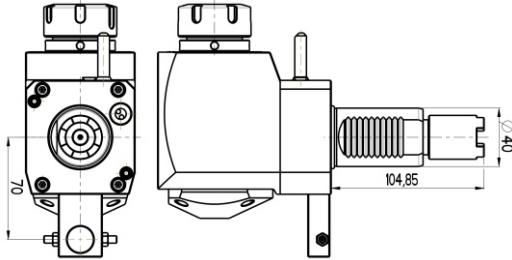
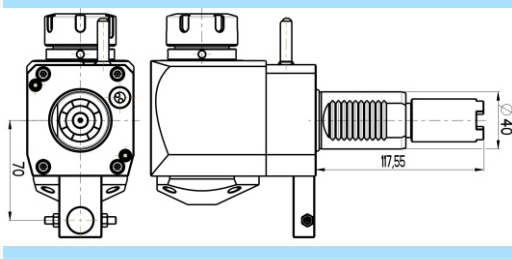
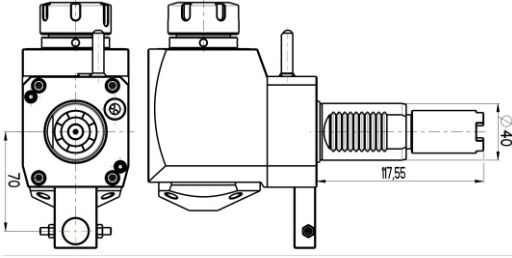
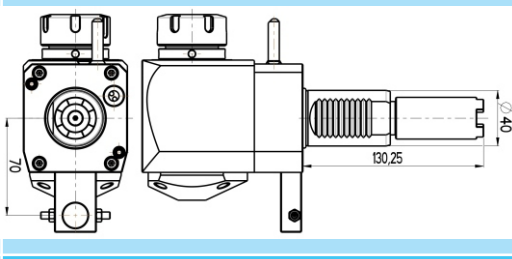
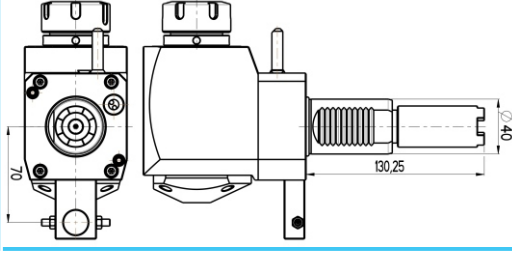
INTERNAL COOLING	ONLY FOR ANGULAR OFFSET STRAIGHT OFFSET ANGULAR		DETAILS CODE
	DIRECTION	H (mm)	
2	2	80	A
<p>1 - NO</p> <p>2 - YES (max 20 bar)</p>	<p>1 - RIGHT</p>  <p>2 - LEFT</p>  <p>3 - RIGHT&LEFT</p> 	  	<p>See details code table</p> <p>Please check the pages no. 3-4</p>

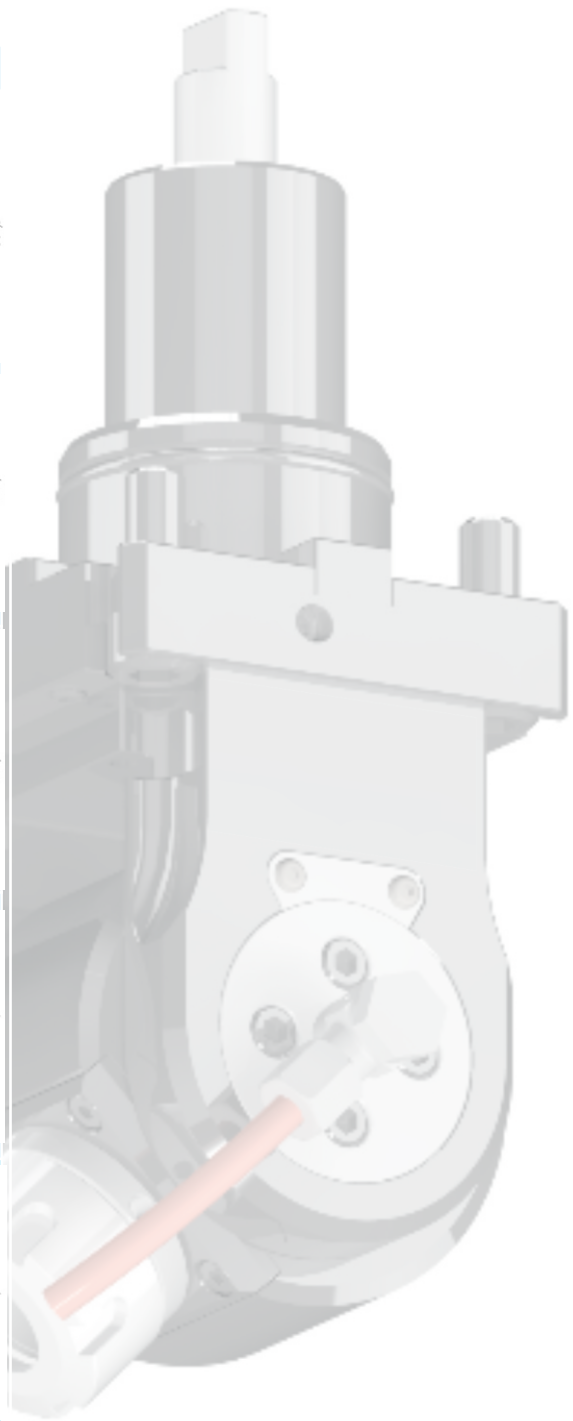


Details code		Technical details		Details code		Technical details	
JB	VDI40 OKUMA			C	VDI30 DIN1809		
JC	VDI40 OKUMA			D	VDI30 DIN1809		
JD	VDI40 OKUMA			S	VDI40 (short)		
JE	VDI40 OKUMA			D	VDI40 TOEM		
B	VDI30 DIN1809			A	VDI40 HAAS		

Details code		Technical details	
(1:2)	Ratio 1:2	$n_1=6000\text{r/min (in)}$ $n_2=12000\text{r/min (out)}$	
(2:1)	Ratio 2:1	$n_2=6000\text{r/min (in)}$ $n_1=3000\text{r/min (out)}$	
JA	VDI30 OKUMA		
JB	VDI30 OKUMA		
JA	VDI40 OKUMA		
JAS	VDI40 OKUMA same direction (in-out)		

Details code	Technical details		Details code	Technical details	
(JA) BMT60 OKUMA			(DO) BMT65 DOOSAN		
(JB) BMT60 OKUMA			(NT) BMT44 NAKAMURA -TOME		
(MS) BMT60 MORI-SEIKI			(NT) BMT55 NAKAMURA TOME		
(DO) BMT45 DOOSAN			(NT) BMT65 NAKAMURA -TOME		
(DO) BMT55 DOOSAN					

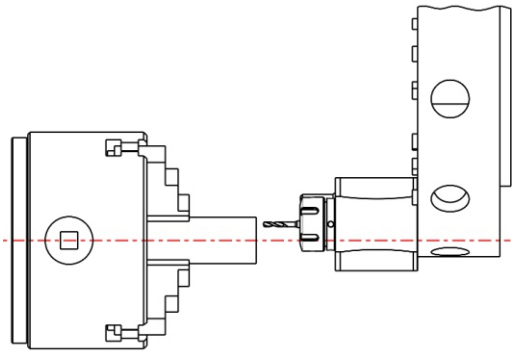
Details code		Technical details	
AS	VDI40 HAAS same direction (in-out)		
B	VDI40 HAAS		
BS	VDI40 HAAS same direction (in-out)		
C	VDI40 HAAS		
CS	VDI40 HAAS same direction (in-out)		



DIN 5482 Operations with VDI Disk-type turret

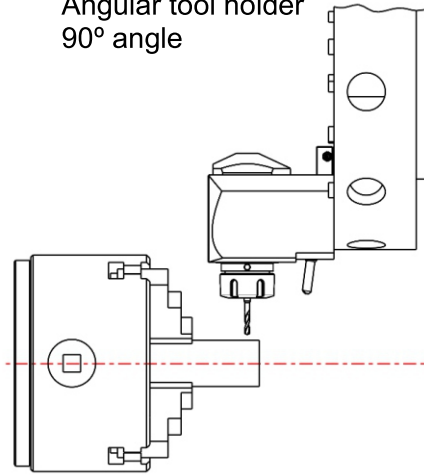
Axial operation

Straight tool holder

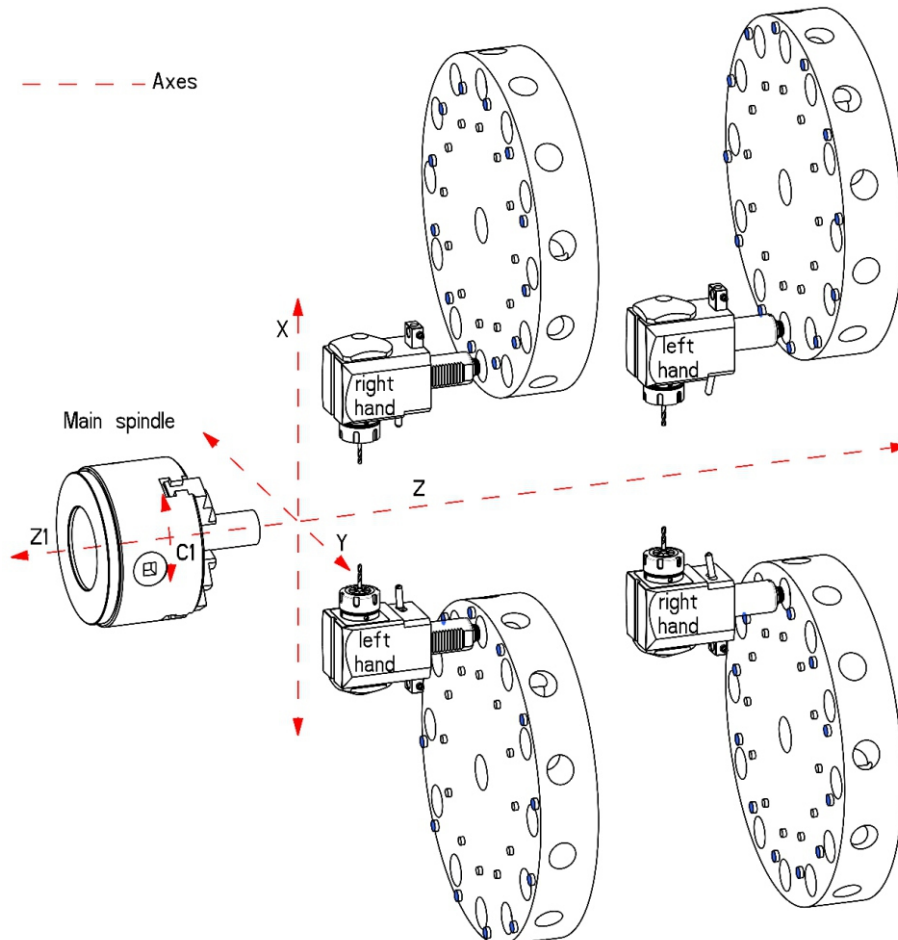


Radial operation

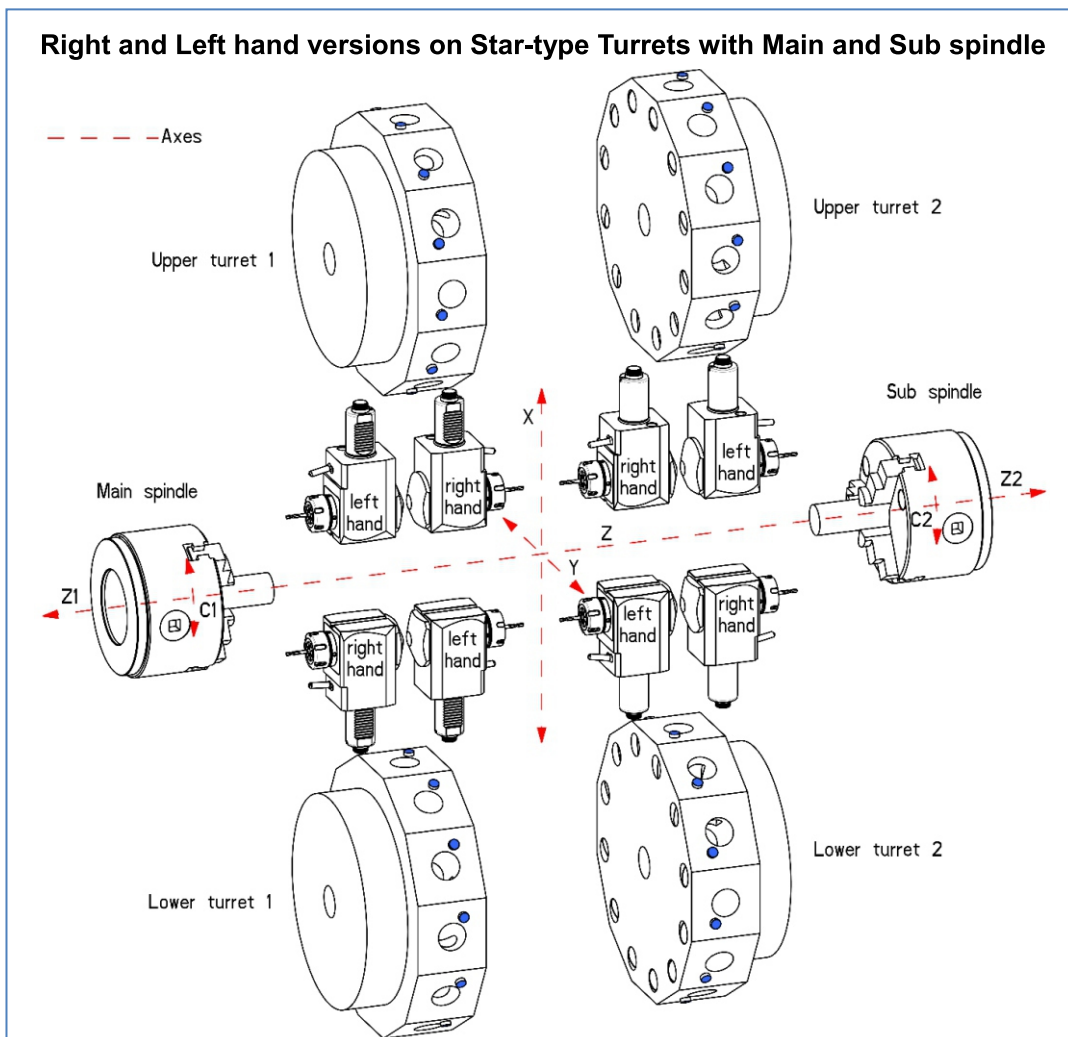
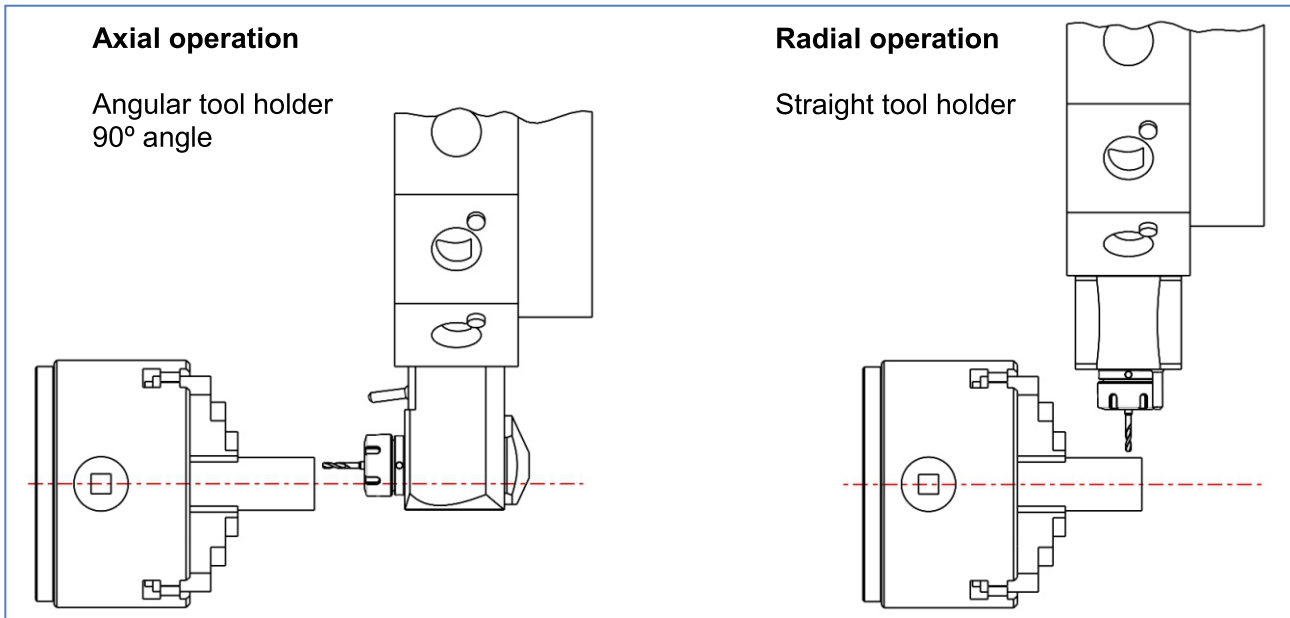
Angular tool holder
90° angle



Right and Left hand versions on Disk-type Turrets



DIN 5480 Operations with VDI Star-type turret



BMT TURRET TOOLHOLDERS

Suitable for:

ACE

BFW

Biglia

DOOSAN

Gildemeister/ DMG MORI

HAAS

HAAS BMT & BOT

Hardinge

Hwacheon

HYUNDAI WIA

Jyoti

Leadwell

LMW

Mazak

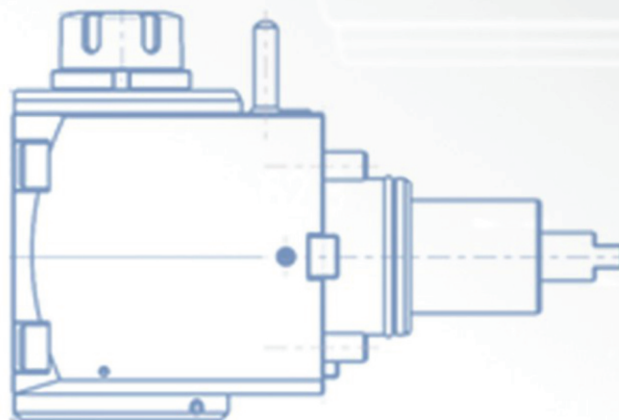
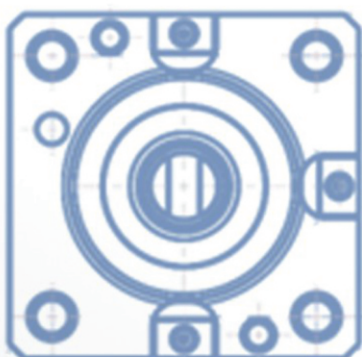
Mori Seiki

Muratec

Nakamura-Tome

OKUMA

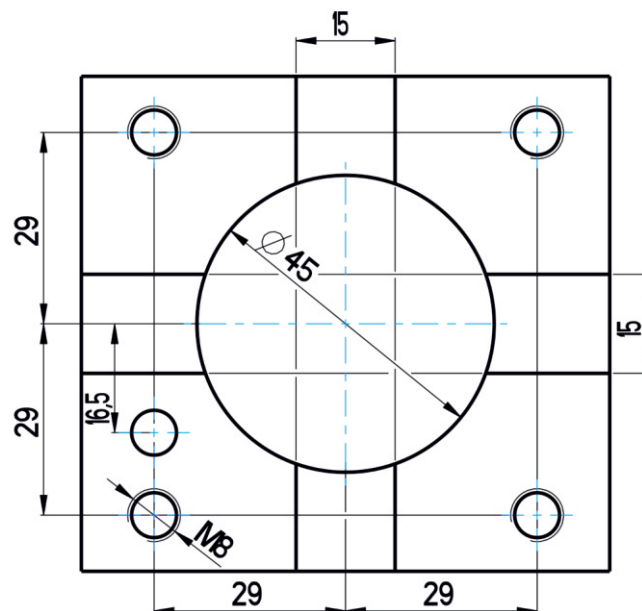
VICTOR



LIVE AND STATIC TOOLHOLDERS **BMT45**

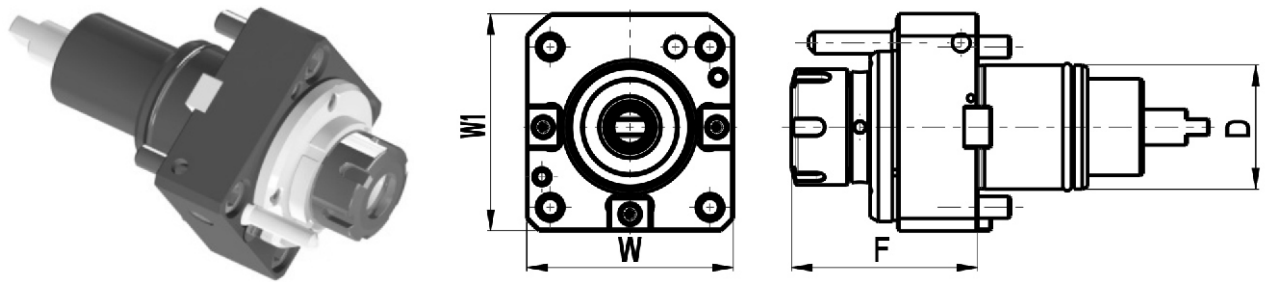
Doosan	Lynx 2100 MA
	Lynx 220 LMSA/LMSC
	Lynx 220 LSYA/LSYC
	Lynx 220 M/LM
	PUMA 230/240/280 (M,LM,S)
	Lynx 220 MA/LMA/MC/LMC
	Lynx 220 YA/YC/LYA/LYC
	PUMA MX 1600 T/ST
Hardinge	BMT45

CONNECTION TURRET - BMT45



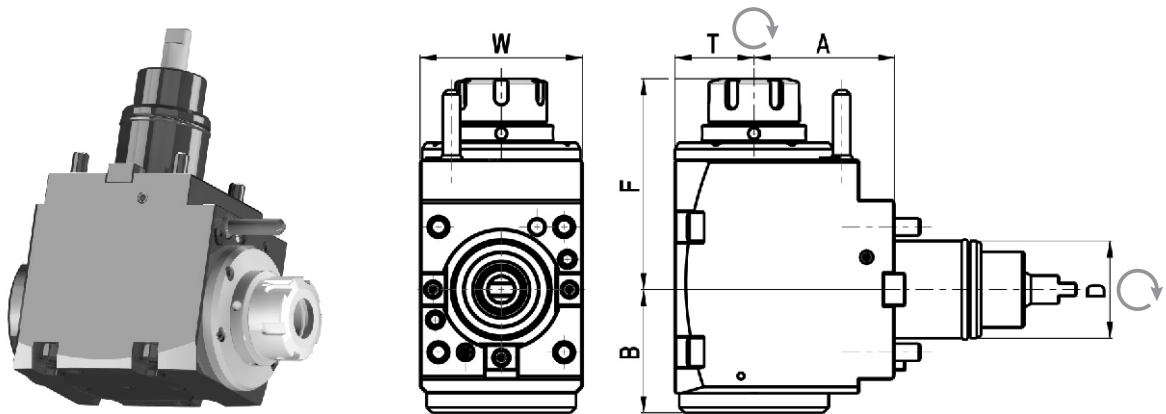
LIVE TOOLHOLDERS BMT45

Straight BMT drilling and milling head



Code	D	Tool grip	Internal Cooling	F	W	W1	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL2-45/101-25/1(DO)	45	ER25	no	68	75	78.5	50	6000	1:1	-
EDL2-45/101-25/2(DO)	45	ER25	yes	68	75	78.5	50	6000	1:1	20

Angular BMT drilling and milling head



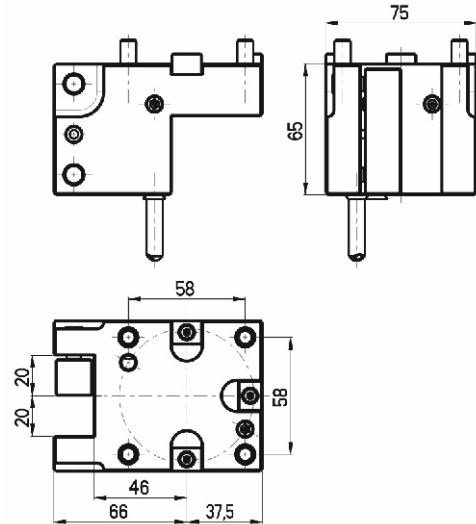
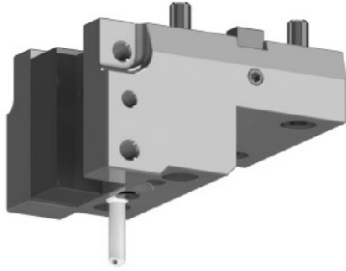
Code	D	Tool grip	Internal Cooling	Direction	A	B	F	T	W	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL2-45/201-25/1.3-65(DO)	45	ER25	no	right/left	65	57	98	36.5	75	50	6000	1:1	-
EDL2-45/201-25/2.3-65(DO)	45	ER25	yes	right/left	65	57	98	36.5	75	50	6000	1:1	20

* The straight, angular and variable toolholders can be equipped with Weldon shaft or shell-mill shaft upon request.

STATIC TOOLHOLDERS BMT45

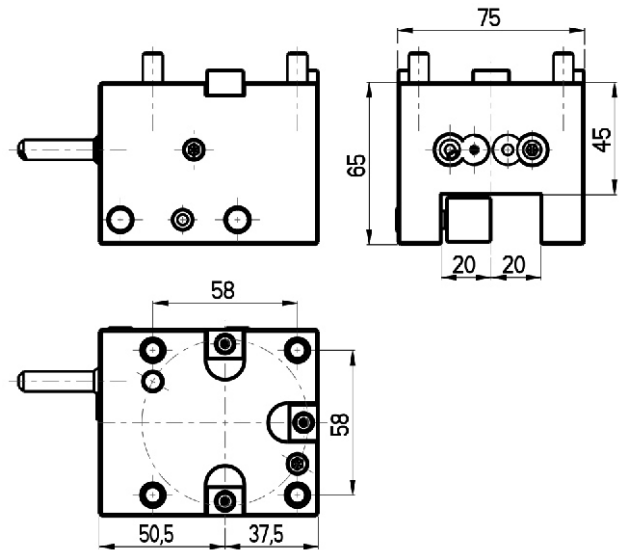
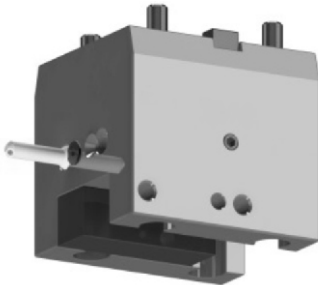
Universal turning holder

EDS OD-45x20x65(DO)
External cooling



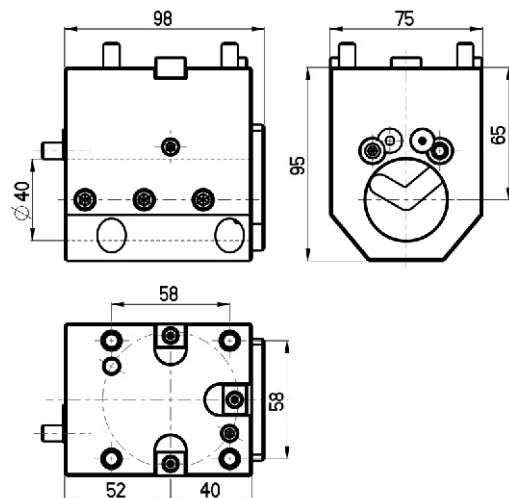
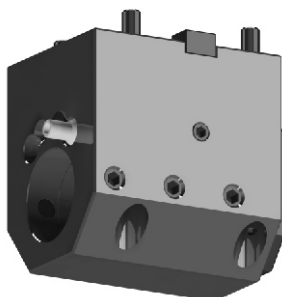
Universal turning face holder

EDS F-45x20x65(DO)
External cooling



Boring bar holder

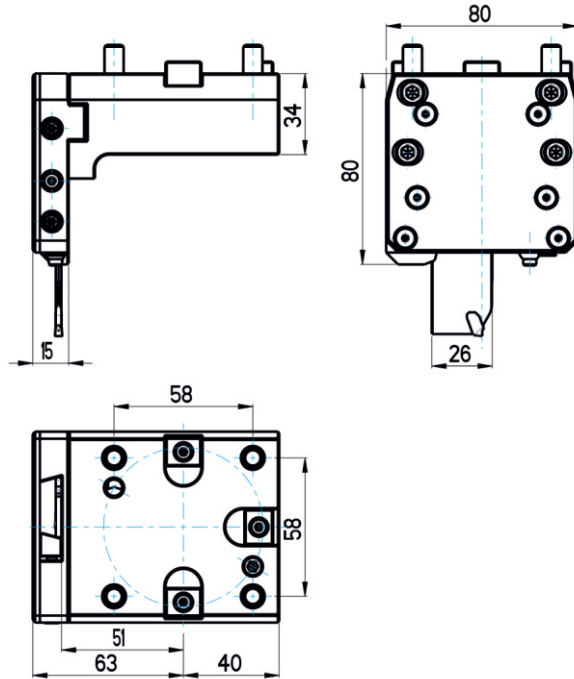
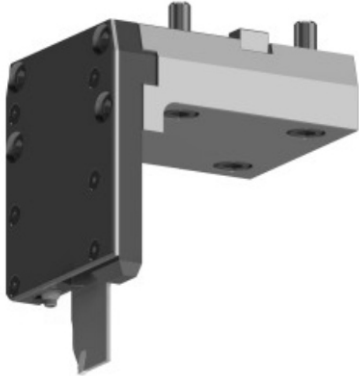
EDS ID-45x40x65(DO)
External/Internal cooling



STATIC TOOLHOLDERS BMT45

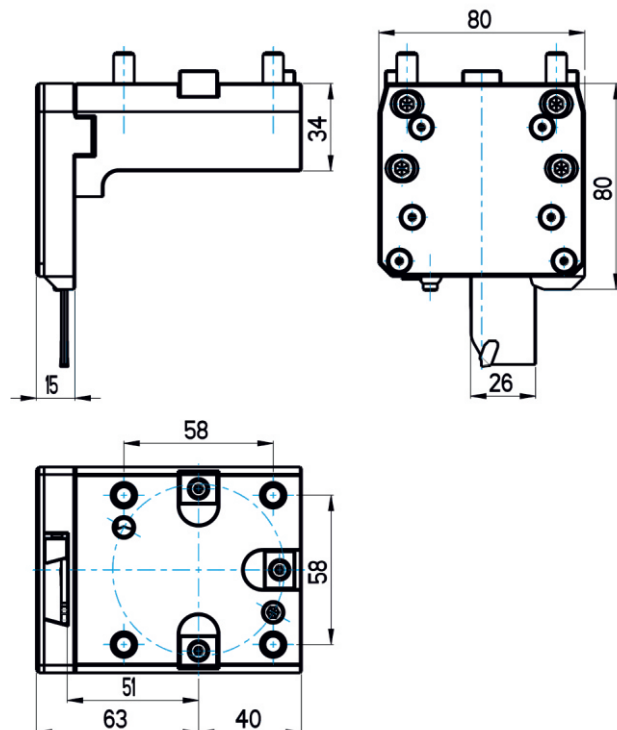
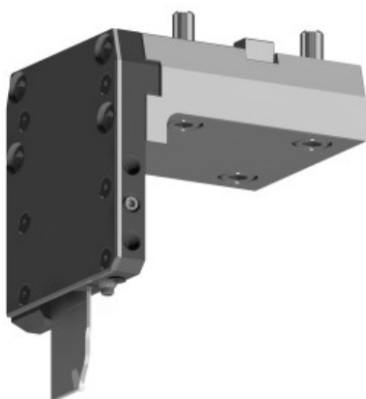
Cut off toolholder

EDS CR-45x26(DO)
External cooling (RIGHT)



Cut off toolholder

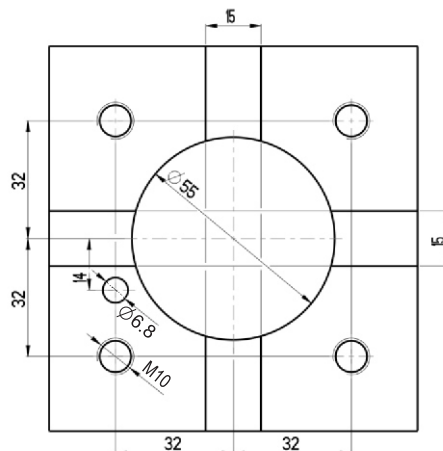
EDS CL-45x26(DO)
External cooling (LEFT)



LIVE AND STATIC TOOLHOLDERS BMT55

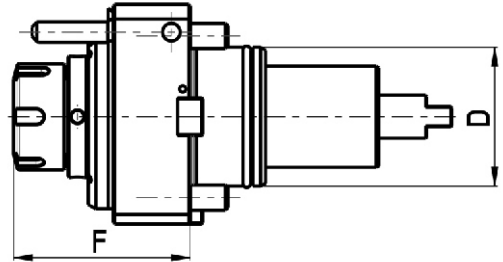
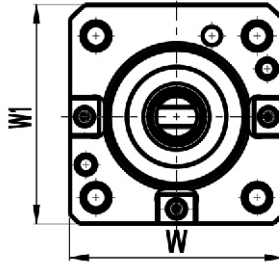
Doosan	Lynx 300 (M)
	PUMA 1500/2000/2500 (M,S,Y)
	PUMA 2100 (Y,LY,SY,LSY)
	PUMA 2100/2600/3100 M/Y/MS/SY
	PUMA 230/240/280 (M,LM,S)
	PUMA GT2100M
	PUMA H250TM
	PUMA MX2100 (ST/LST)
	PUMA TL2000/2500 (M,LM)
Hardinge	BMT55
Hwacheon	Cutex-160
SMEC/Samsung	SL 20MC
Hyundai Wia	SKT-180TTSY
Victor	Vturn-A16/A20 (YSCM)

CONNECTION TURRET - BMT55



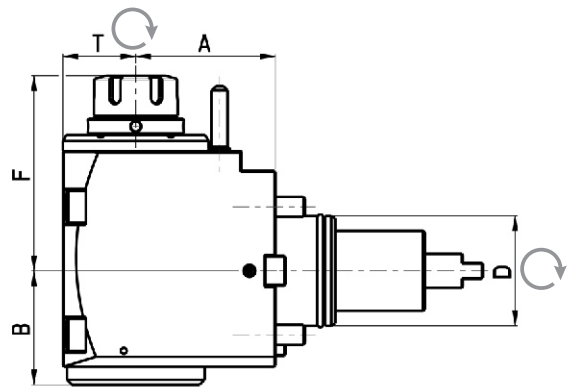
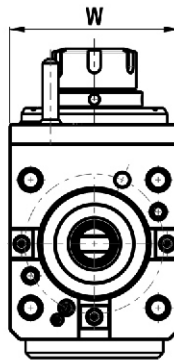
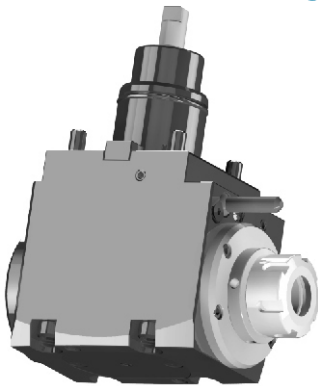
LIVE TOOLHOLDERS BMT55

Straight BMT drilling and milling head



Code	D	Tool grip	Internal Cooling	F	W	W1	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL2-55/101-25/1(DO)	55	ER25	no	71	85	85	50	6000	1:1	-
EDL2-55/101-25/2(DO)	55	ER25	yes	71	85	85	50	6000	1:1	20

Angular BMT drilling and milling head

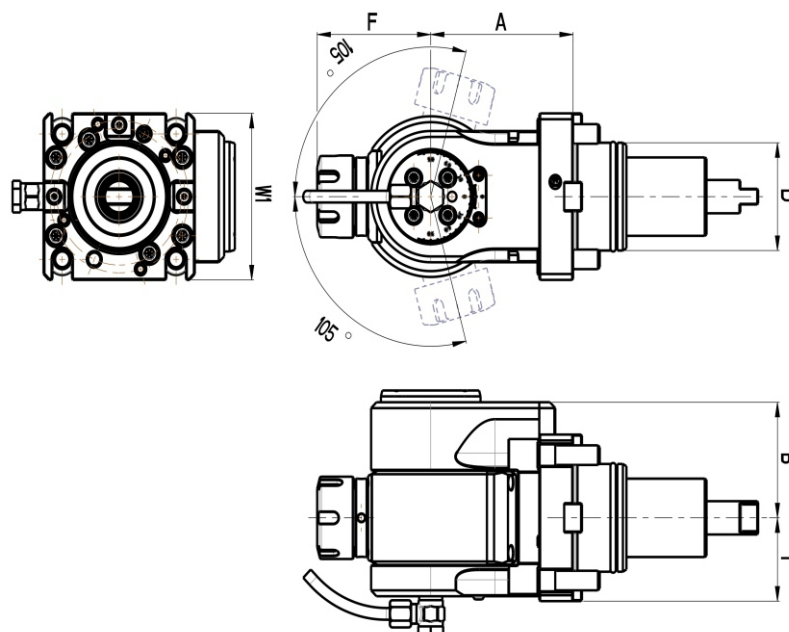


Code	D	Tool grip	Internal Cooling	Direction	A	B	F	T	W	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL2-55/201-25/1.3-70(DO)	55	ER25	no	right/left	70	57,5	86	37,5	85	50	6000	1:1	-
EDL2-55/201-25/2.3-70(DO)	55	ER25	yes	right/left	70	57,5	86	37,5	85	50	6000	1:1	20
EDL2-55/201-25/1.3-85(DO)	55	ER25	no	right/left	85	57,5	86	37,5	85	50	6000	1:1	-
EDL2-55/201-25/2.3-85(DO)	55	ER25	yes	right/left	85	57,5	86	37,5	85	50	6000	1:1	20
EDL2-55/201-32/1.3-85(DO)	55	ER32	no	right/left	85	57,5	86	37,5	85	50	6000	1:1	-
EDL2-55/201-32/2.3-85(DO)	55	ER32	yes	right/left	85	57,5	86	37,5	85	50	6000	1:1	20

* The straight, angular and variable toolholders can be equipped with Weldon shaft or shell-mill shaft upon request.

LIVE TOOLHOLDERS BMT55

Variable angle BMT drilling and milling head

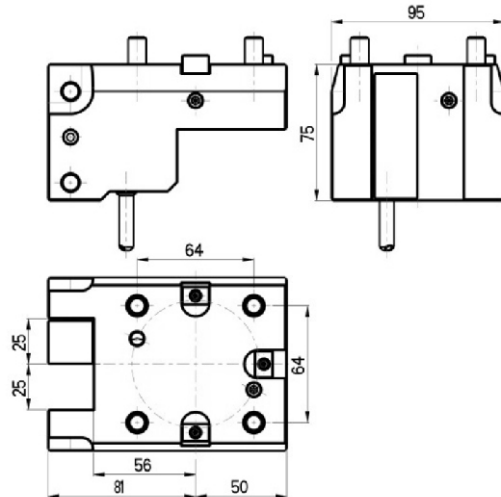
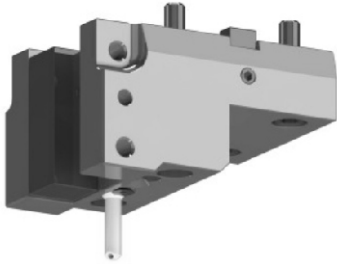


Code	D	Tool grip	Internal Cooling	Direction	A	B	F	T	W1	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL2-55/501-25/1(DO)	55	ER25	no	right/left	80	59	64	42,5	85	16	6000	1:1	-
EDL2-55/501-25/2(DO)	55	ER25	yes	right/left	80	59	64	42,5	85	16	6000	1:1	20

STATIC TOOLHOLDERS BMT55

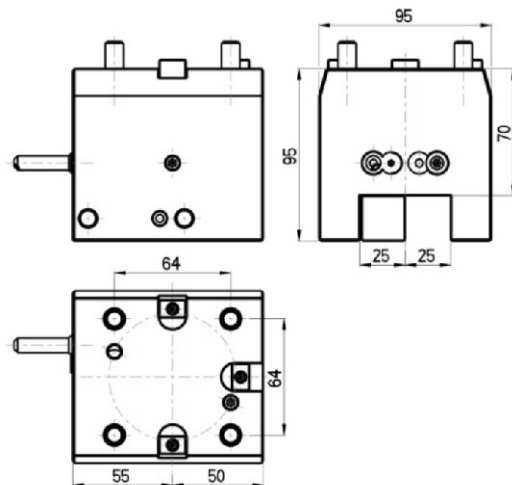
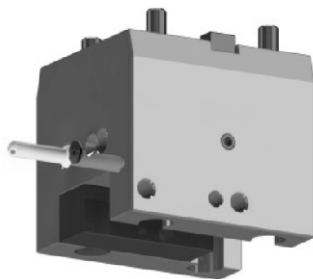
Universal turning holder

EDS OD-55x25x75(DO)
External cooling



Universal turning face holder

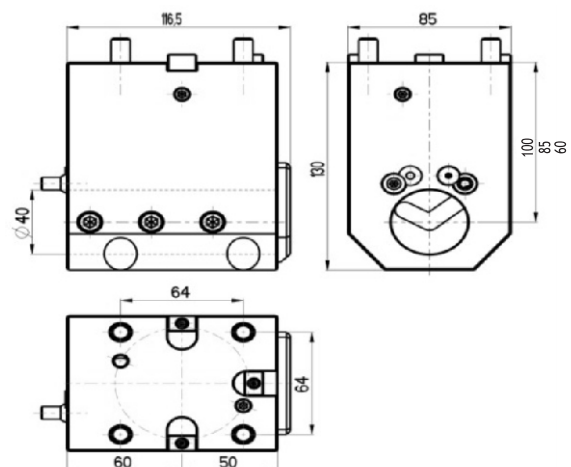
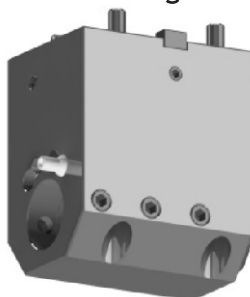
EDS F-55x25x95(DO)
External cooling



Boring bar holder

EDS ID-55x40x60(DO)
EDS ID-55x40x85(DO)
EDS ID-55x40x100(DO)

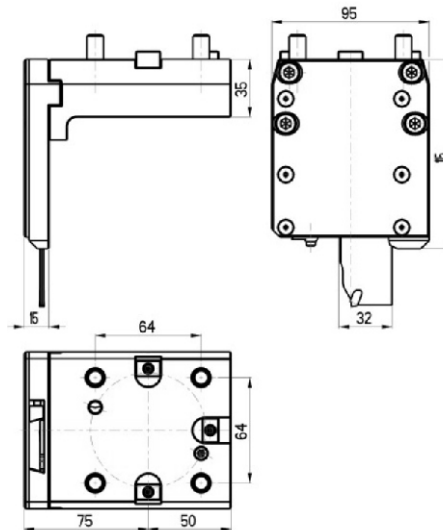
External/Internal cooling



STATIC TOOLHOLDERS BMT55

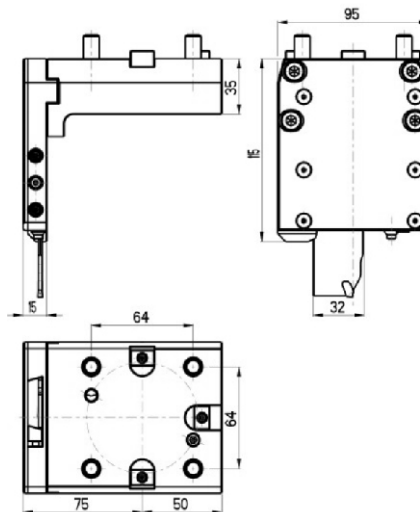
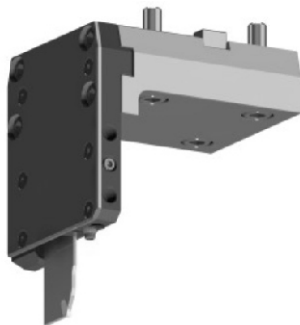
Cut off toolholder

EDS CR-55x32(DO)
External cooling (RIGHT)



Cut off toolholder

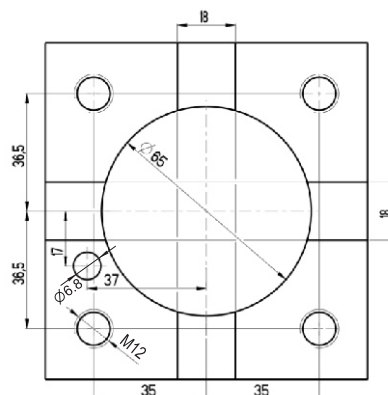
EDS CL-55x32(DO)
External cooling (LEFT)



LIVE AND STATIC TOOLHOLDERS **BMT65**

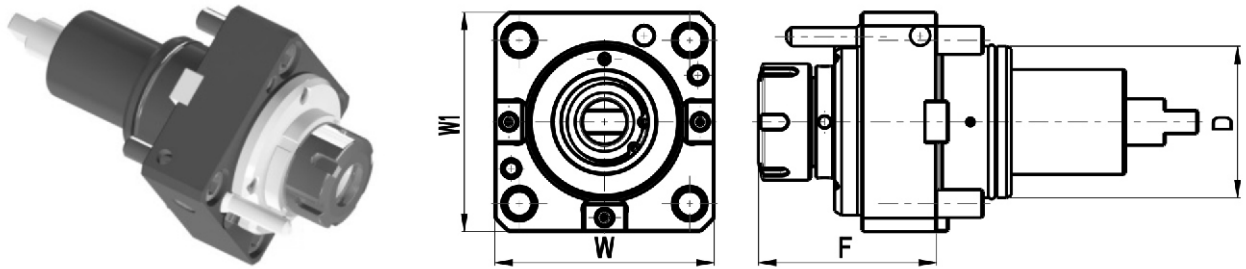
Doosan	PUMA 2100/2600 (M,LM,MS,LMS)
	PUMA 2100/2600 (Y,LY,SY,LSY)
	PUMA 300 (M,MS,MB,MC)
	PUMA 3100 (M,LM,LY,XLM,XLY,ULM,ULY)
	PUMA MX2000/2500
	PUMA MX2600 (T,ST), PUMA TT2500 (MS/SY)
	PUMA V400 (M)
	PUMA VT450 (M,2SP)
	Haas
Hwacheon	Cutex-240/Hi-TECH200/T2-Series
	Hi-TECH300/400
	VT-450
Hyundai WIA	L2100SY
	SKT-200/250TTSY
	SKT-250/300 (L,M)
	SKT-250/300 (MS)
Maxsin	BMT65
SMEC/Samsung	SL 25/SL 35
Tongtai	TMT2000
Victor	Vturn-A26 (YSCM)

CONNECTION TURRET - BMT65



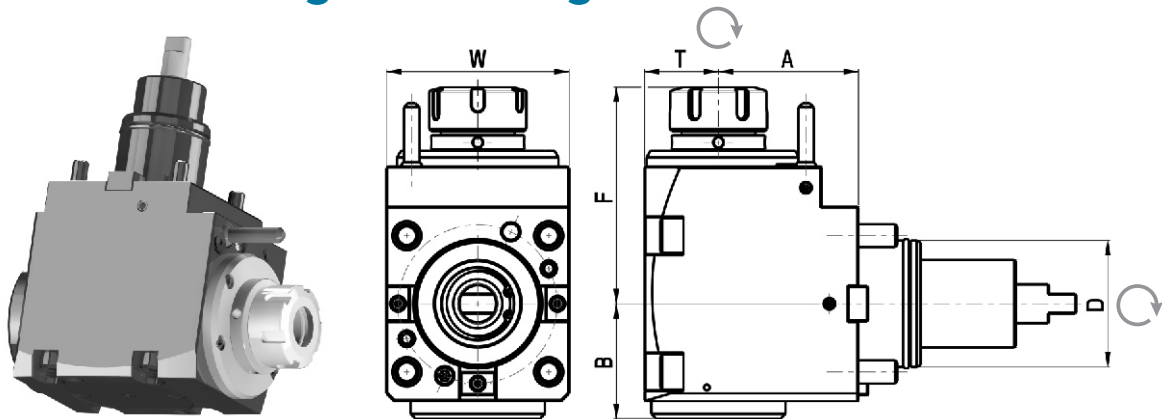
LIVE TOOLHOLDERS BMT65

Straight BMT drilling and milling head



Code	D	Tool grip	Internal Cooling	F	W	W 1	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL2-65/101-32/1(DO)	65	ER32	no	75.3	94	94	70	6000	1:1	-
EDL2-65/101-32/2(DO)	65	ER32	yes	75.3	94	94	70	6000	1:1	20

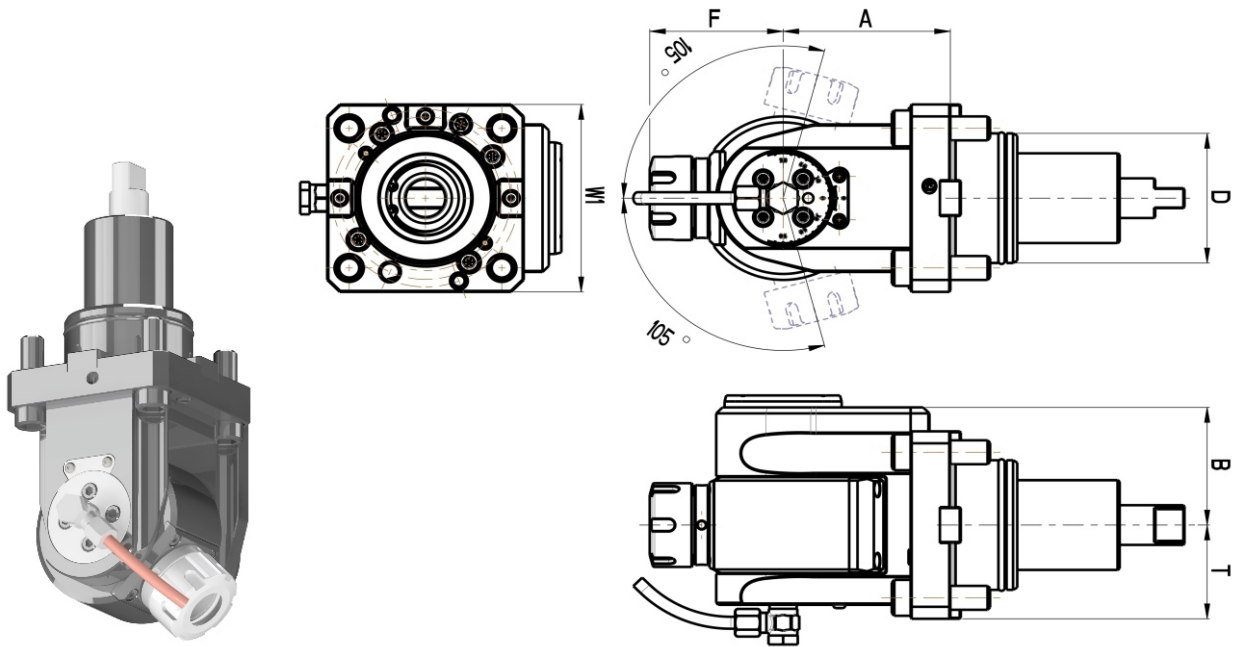
Angular BMT drilling and milling head



Code	D	Tool grip	Internal Cooling	Direction	A	B	F	T	W	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL2-65/201-32/1.3-72(DO)	65	ER32	no	right/left	72	59	110	38	94	70	6000	1:1	-
EDL2-65/201-32/2.3-72(DO)	65	ER32	yes	right/left	72	59	110	38	94	70	6000	1:1	20
EDL2-65/201-32/1.3-100(DO)	65	ER32	no	right/left	100	59	110	38	94	70	6000	1:1	-
EDL2-65/201-32/2.3-100(DO)	65	ER32	yes	right/left	100	59	110	38	94	70	6000	1:1	20

LIVE TOOLHOLDERS BMT65

Variable angle BMT drilling and milling head

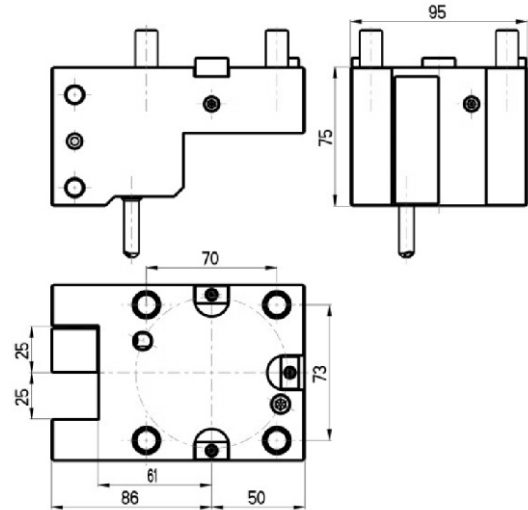
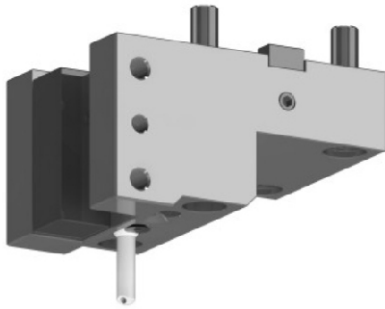


Code	D	Tool grip	Internal Cooling	Direction	A	B	F	T	W1	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL2-65/501-25/1(DO)	65	ER25	no	right/left	80	59	64	47	94	16	6000	1:1	-
EDL2-65/501-25/2(DO)	65	ER25	yes	right/left	80	59	64	47	94	16	6000	1:1	20

STATIC TOOLHOLDERS BMT65

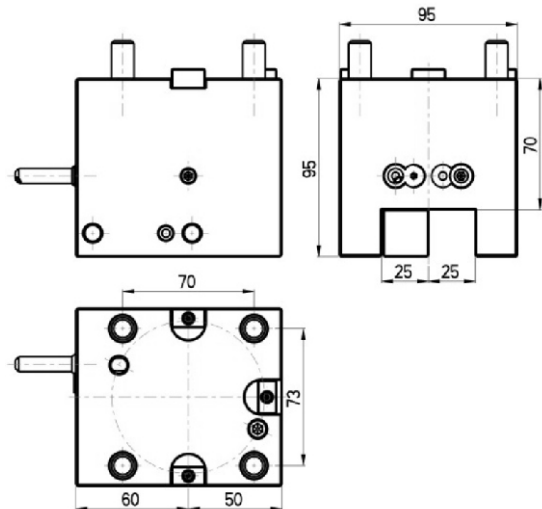
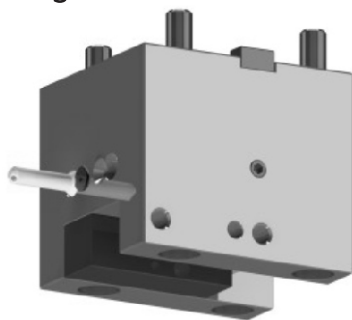
Universal turning holder

EDS OD-65x25x75(DO)
External cooling



Universal turning face holder

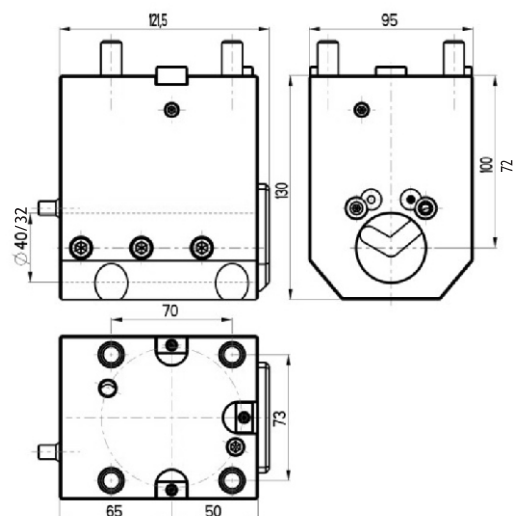
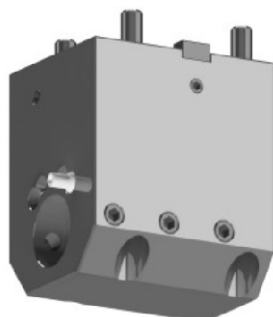
EDS F-65x25x95(DO)
External cooling



Boring bar holder

EDS ID-65x40x100(DO)
EDS ID-65x40x72(DO)
EDS ID-65x32x72(DO)

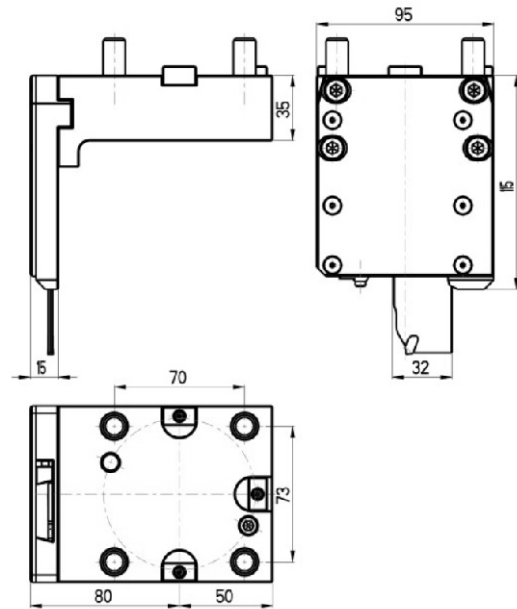
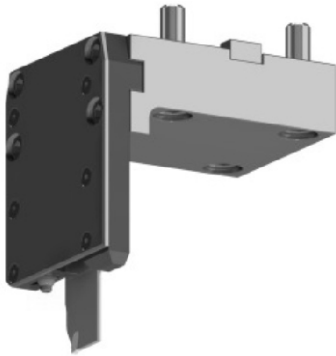
External/Internal cooling



STATIC TOOLHOLDERS BMT65

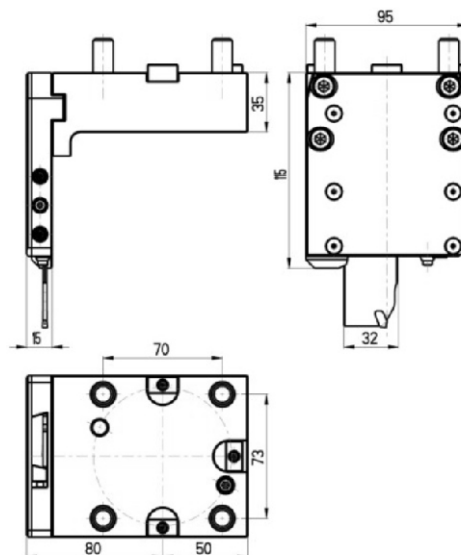
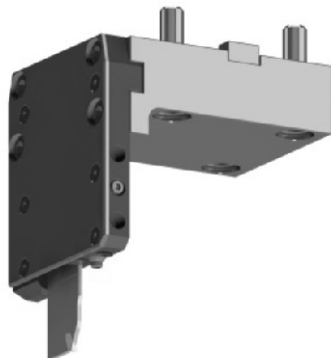
Cut off toolholder

EDS CR-65x32(DO)
External cooling (RIGHT)



Cut off toolholder

EDS CL-65x32(DO)
External cooling (LEFT)

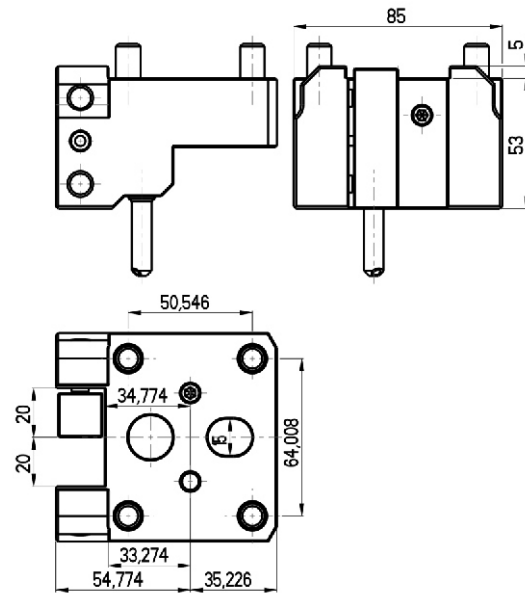
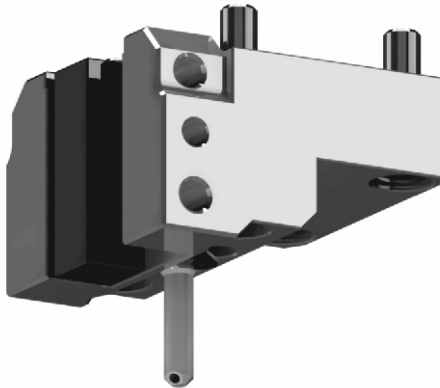


HAAS BOT TURRET

Haas	ST-20SS/SSY-Hybrid VB24
	ST-30SS/SSY-Hybrid VB24
	DS-30SS/SSY-Hybrid VB24

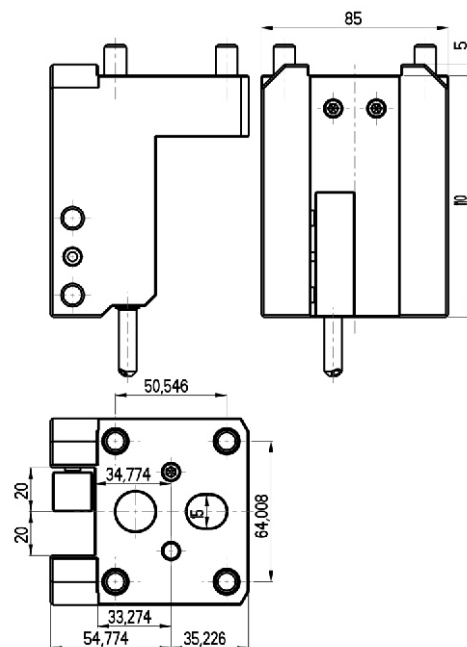
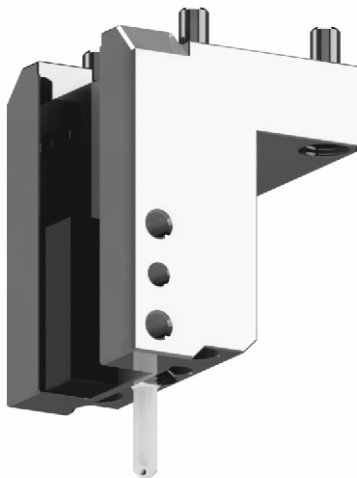
Universal turning holder

EDS OD-20x53(HA)
External cooling



Universal turning holder

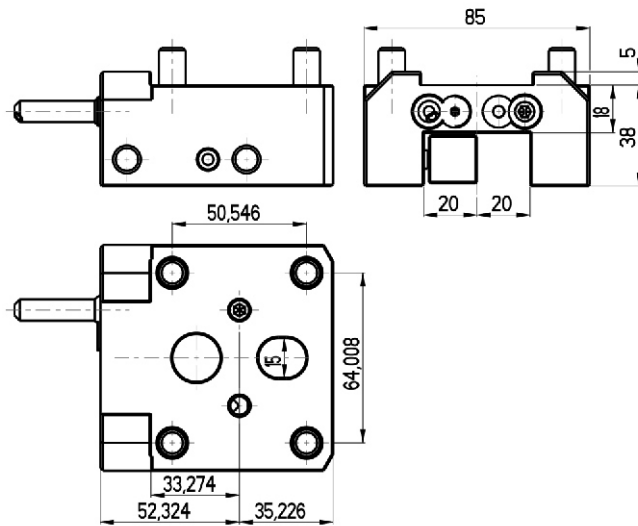
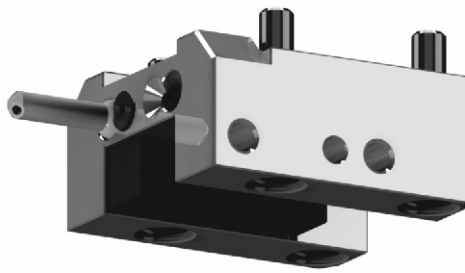
EDS OD-20x110(HA)
External cooling



HAAS BOT TURRET

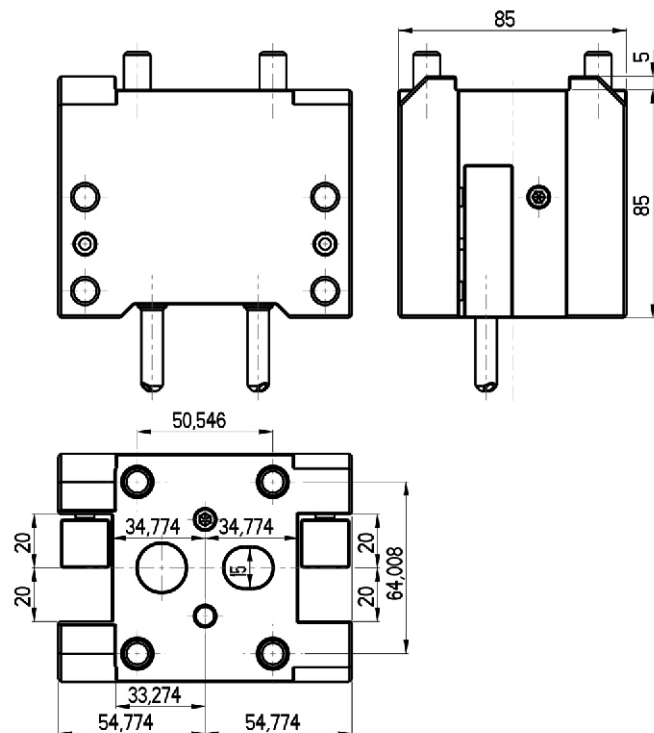
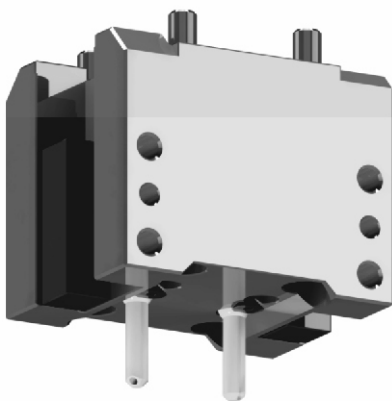
Universal turning face holder

EDS F-20x38(HA)
External cooling



Universal turning double holder

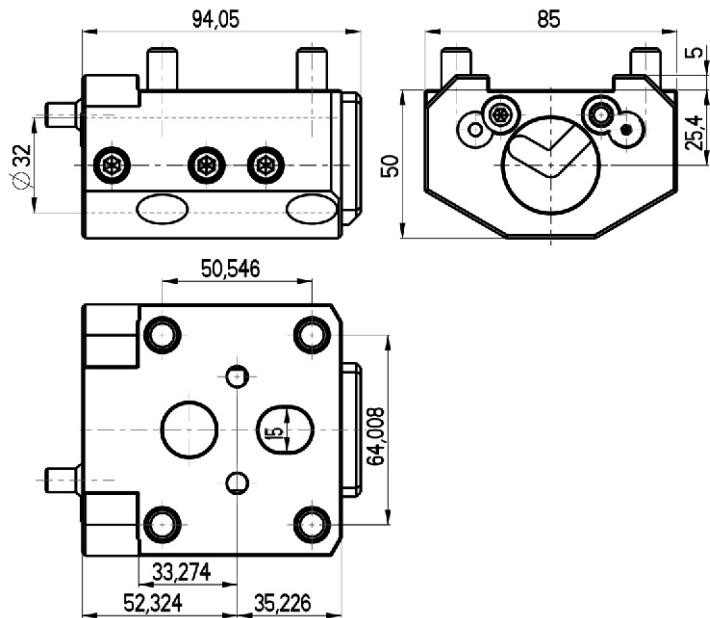
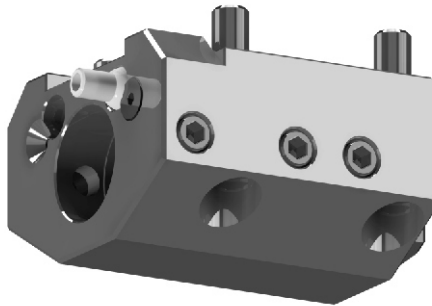
EDS OD-20x85D(HA)
External cooling



HAAS BOT TURRET

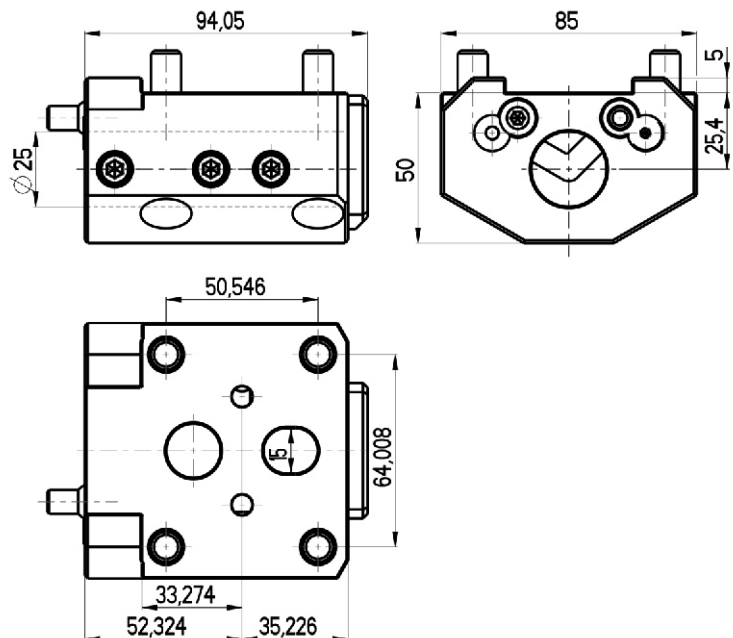
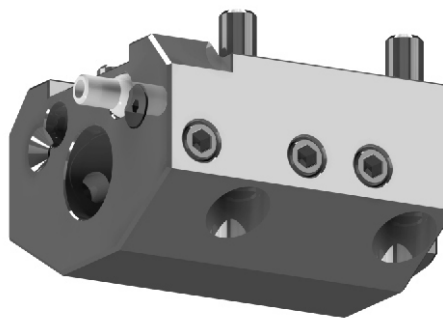
Boring bar holder

EDS ID-32x25.4(HA)
External/internal cooling



Boring bar holder

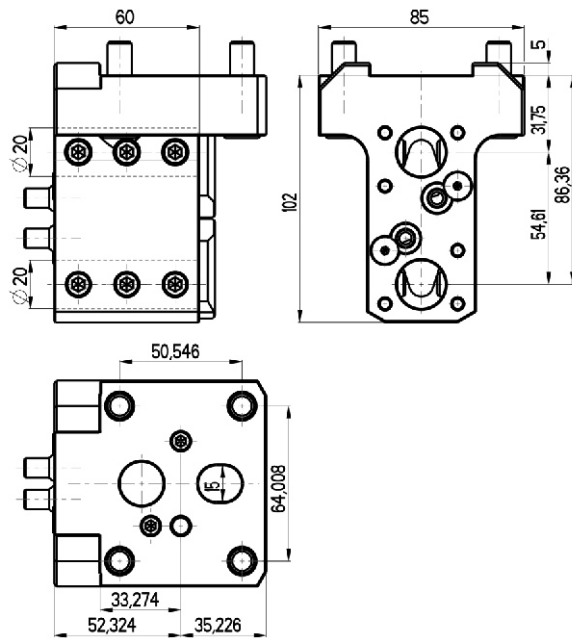
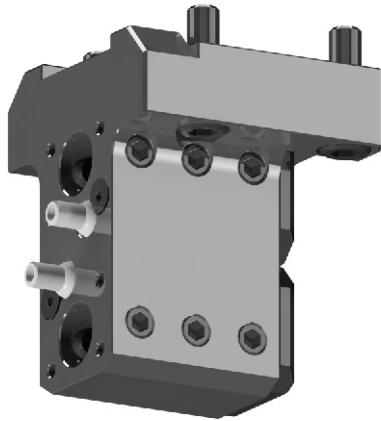
EDS ID-25x25.4(HA)
External/internal cooling



HAAS BOT TURRET

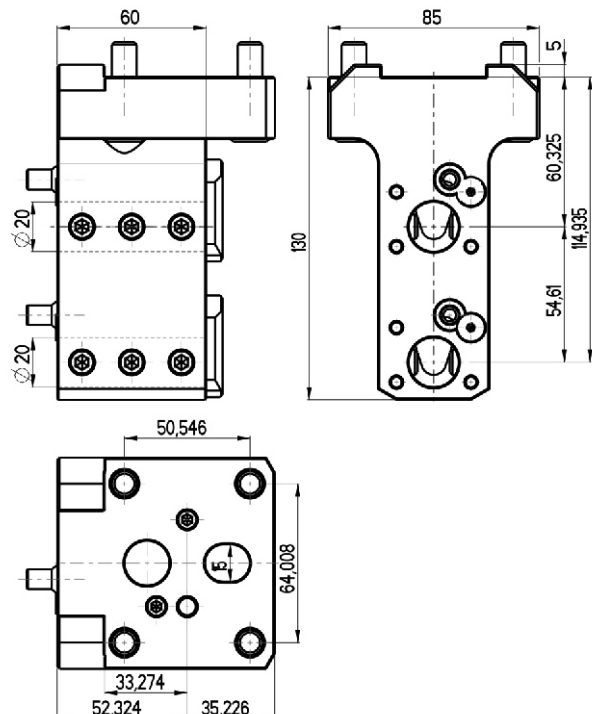
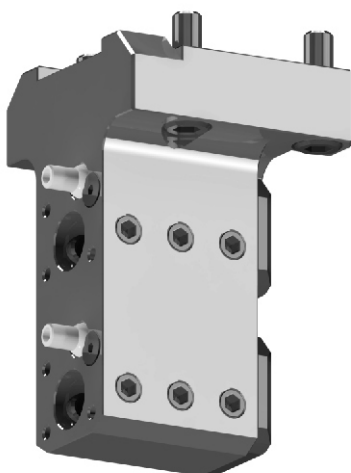
Boring bar holder

EDS ID-20x31.75/86.36D(HA)
External/internal cooling



Boring bar holder

EDS ID-20x60.325/114.935D(HA)
External/internal cooling

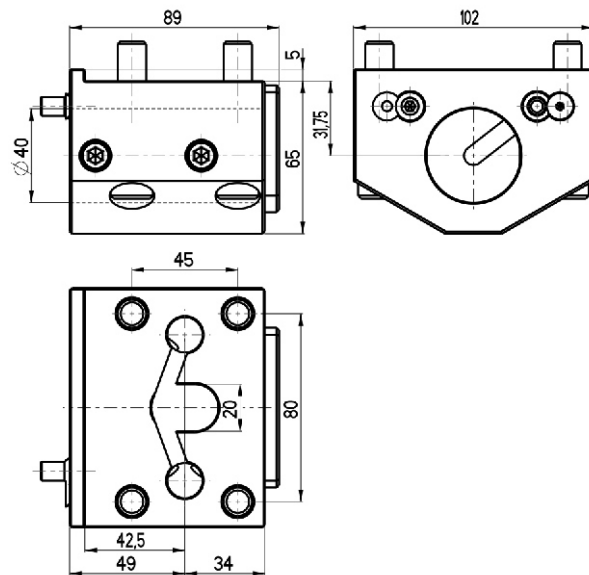
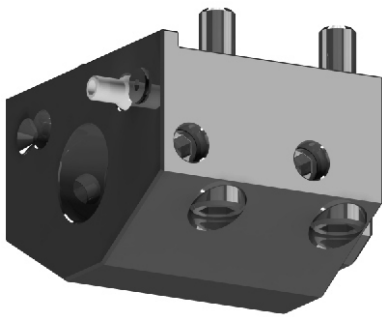


HAAS BOT TURRET

Haas	DS-30Y-Hybrid VB12
	SL-20Y-Hybrid VB12
	SL-30Y-Hybrid VB12
	ST-20Y-Hybrid VB12
	ST-30Y-Hybrid VB12

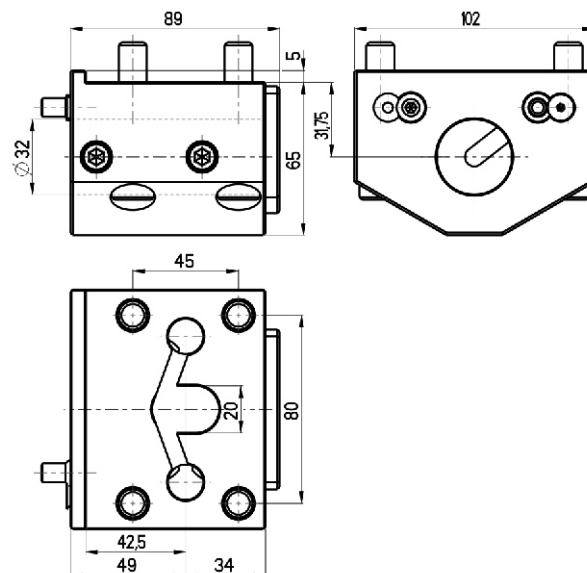
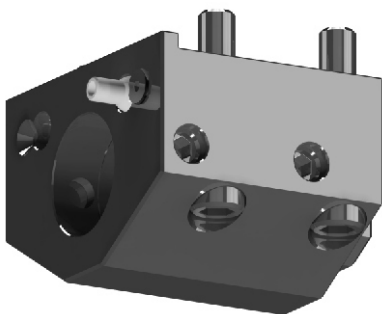
Boring bar holder

EDS ID-40x31.75(HA)
External/Internal cooling



Boring bar holder

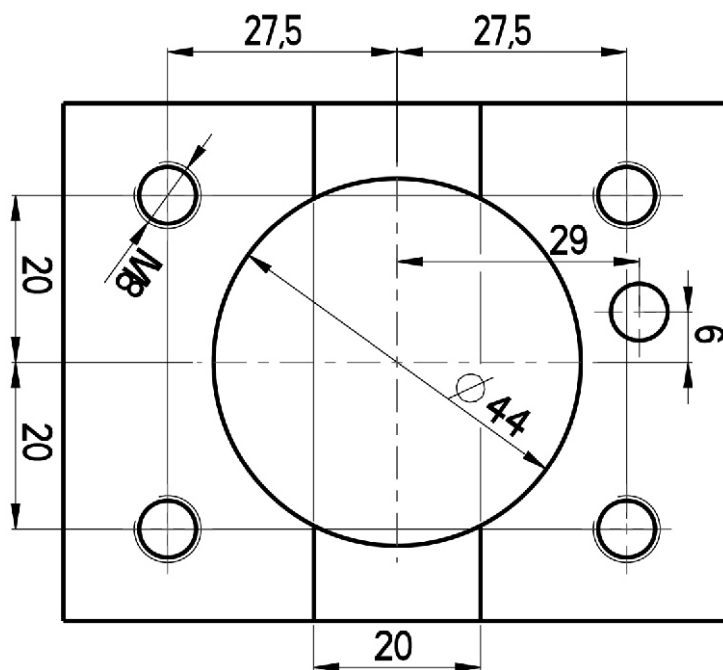
EDS ID-32x31.75 (HA)
External/Internal cooling



NAKAMURA-TOME LIVE AND STATIC TOOLHOLDERS BMT44

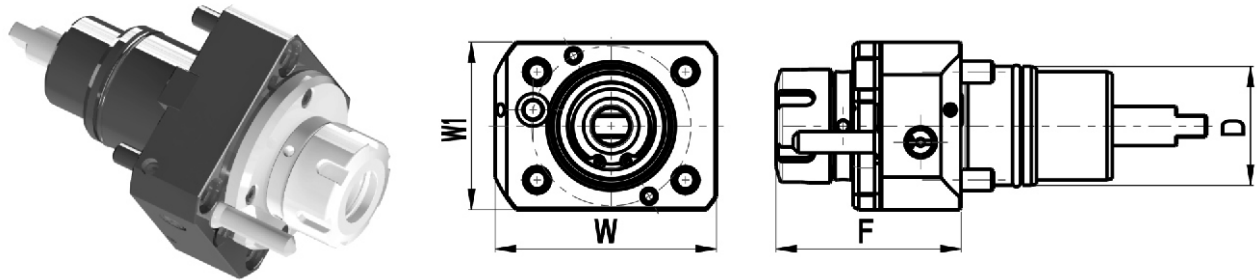
Nakamura-Tome	NTJ 200
	Super NTMX
	Super NTY3
	WT-100
	WY-100
Murata	Muratec MT100

CONNECTION TURRET - NAKAMURA-TOME BMT44



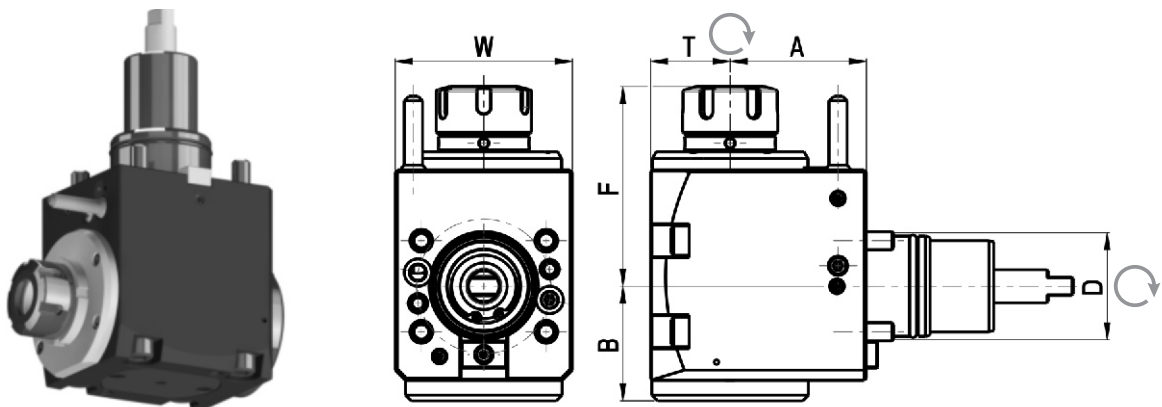
NAKAMURA-TOME LIVE TOOLHOLDERS BMT44

Straight BMT drilling and milling head



Code	D	Tool grip	Internal Cooling	F	W	W1	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL2-44/101-25/1(NT)	44	ER25	no	69	82	62	40	6000	1:1	-
EDL2-44/101-25/2(NT)	44	ER25	yes	69	82	62	40	6000	1:1	20

Angular BMT drilling and milling head



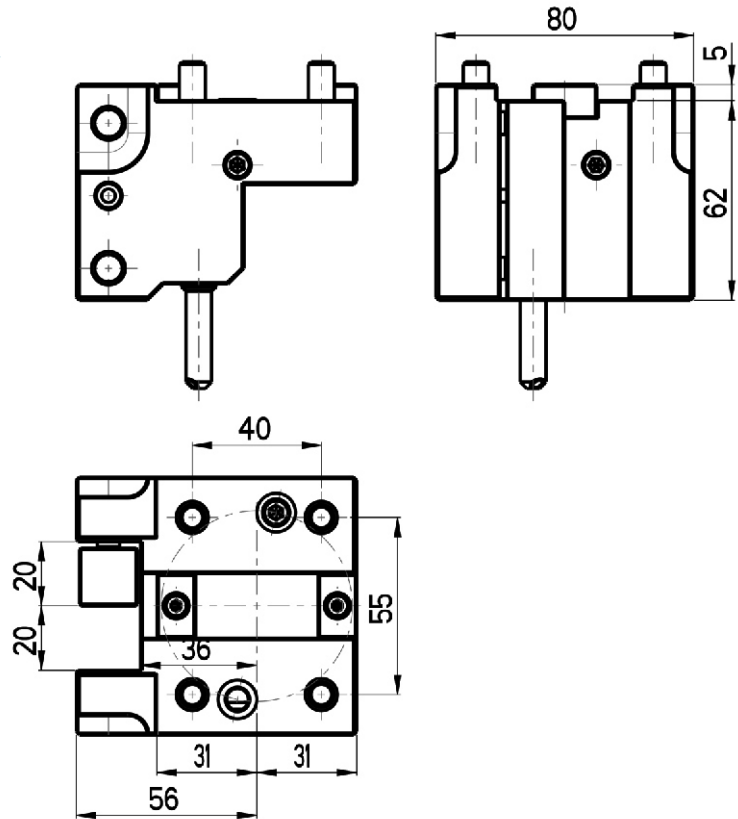
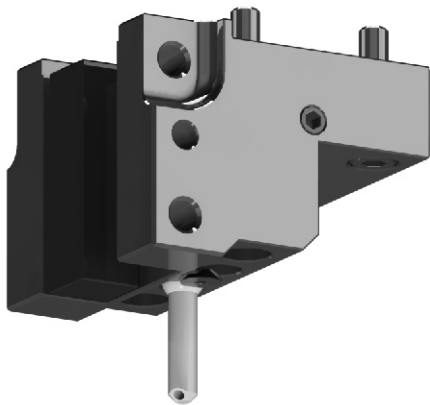
Code	D	Tool grip	Internal Cooling	Direction	A	B	F	T	W	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL2-44/201-25/1.3-60(NT)	44	ER25	no	right/left	60	50	88	35	78	28	6000	1:1	-
EDL2-44/201-25/2.3-60(NT)	44	ER25	yes	right/left	60	50	88	35	78	28	6000	1:1	20

* The straight, angular and variable toolholders can be equipped with Weldon shaft or shell-mill shaft upon request.

NAKAMURA-TOME STATIC TOOLHOLDERS BMT44

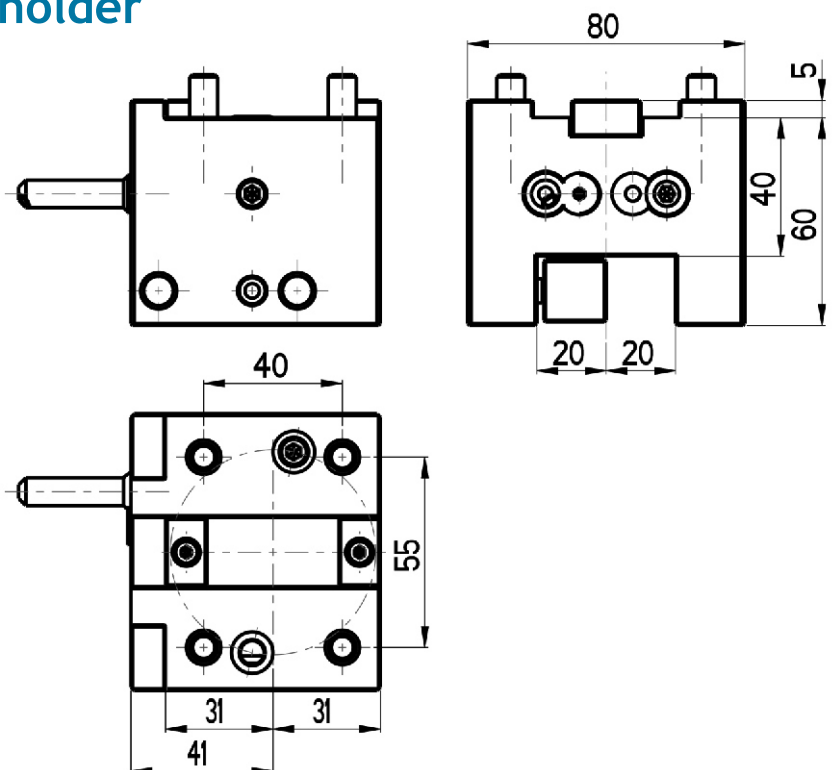
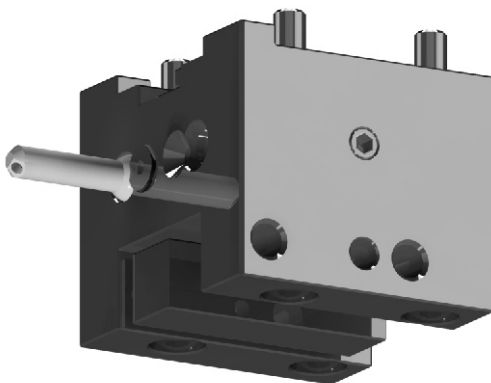
Universal turning holder

EDS OD-44x20x62(NT)
External cooling



Universal turning face holder

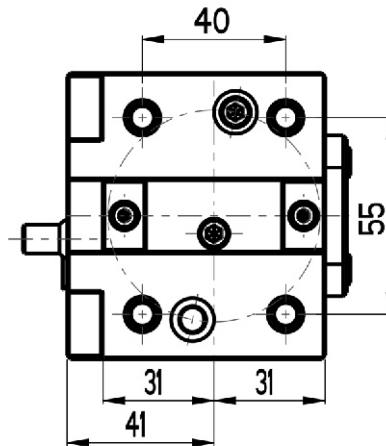
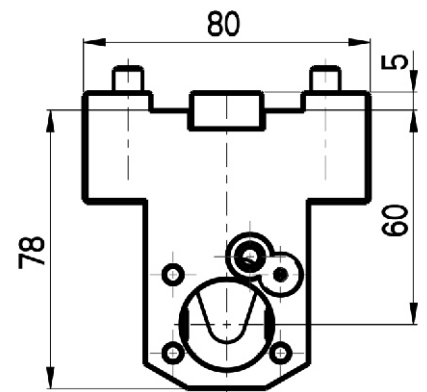
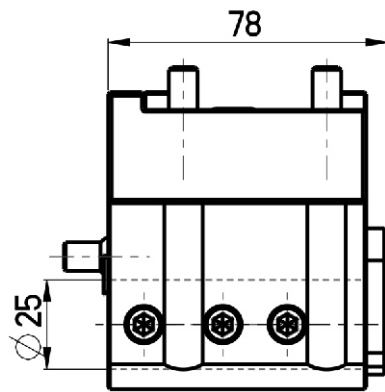
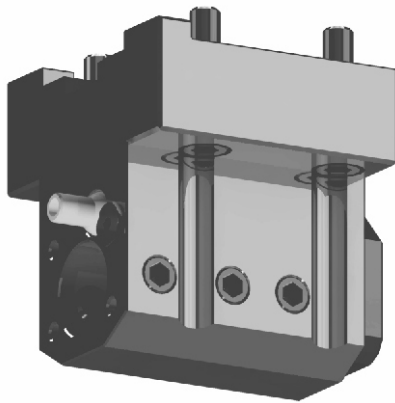
EDS F-44x20x60(NT)
External cooling



NAKAMURA-TOME STATIC TOOLHOLDERS BMT44

Boring bar holder

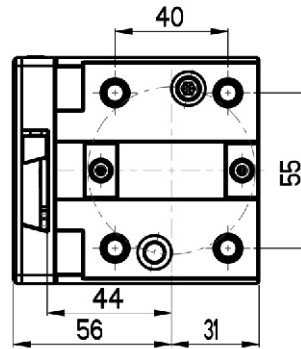
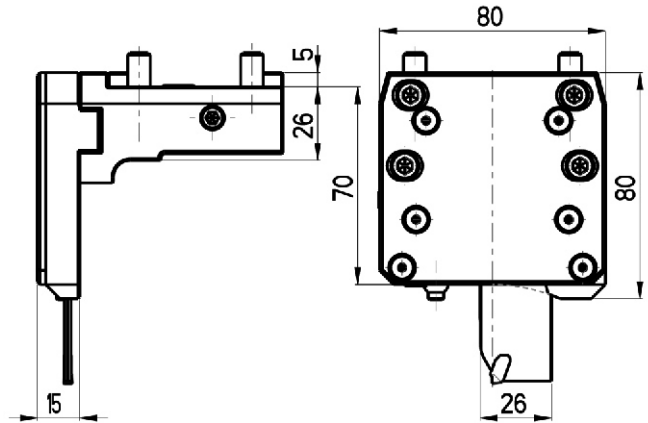
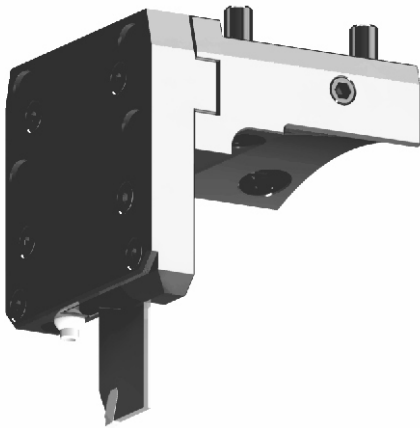
EDS ID-44x25x60(NT)
External/Internal cooling



NAKAMURA-TOME STATIC TOOLHOLDERS BMT44

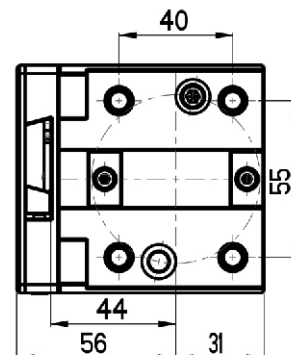
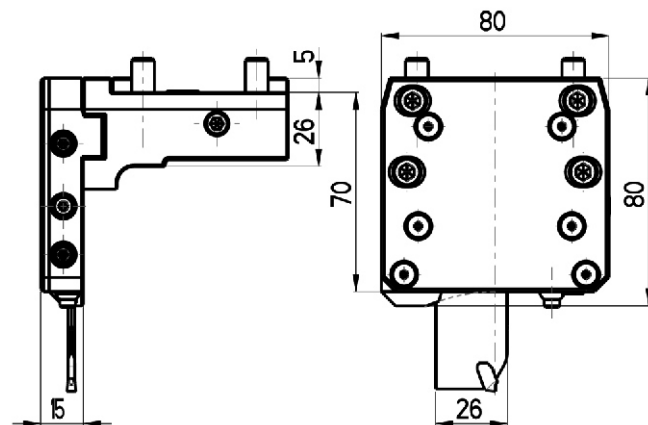
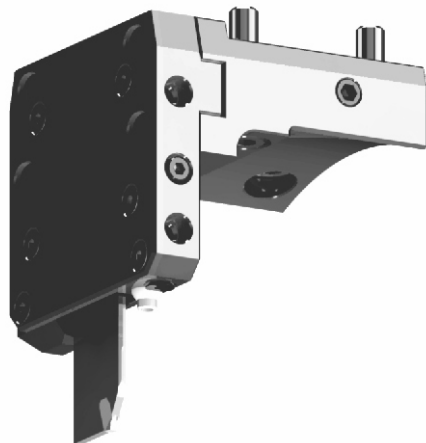
Cut off toolholder (right)

EDS CR-44x26(NT)
External cooling



Cut off toolholder (left)

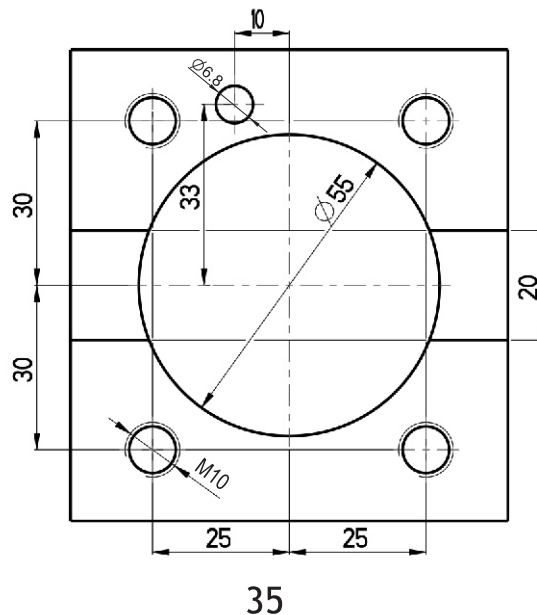
EDS CL-44x26(NT)
External cooling



NAKAMURA-TOME LIVE AND STATIC TOOLHOLDERS BMT55

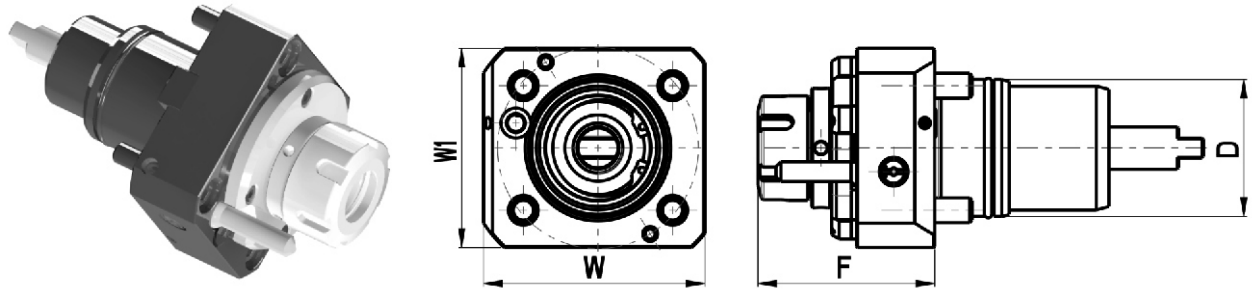
Nakamura-Tome	AS-200
	NTM 3
	NTY 3 -250
	SC-150 M
	SC-200 MY
	SC-250 M
	Super NTJ
	TMC- 20 II M/ML
	TW-10
	TW-20
	WT-20 II M/MY
	WT-150
	WT-250
	WTS -150
	WTW -150
	WY -250
CMZ	TX 52/66

CONNECTION TURRET - NAKAMURA-TOME BMT55



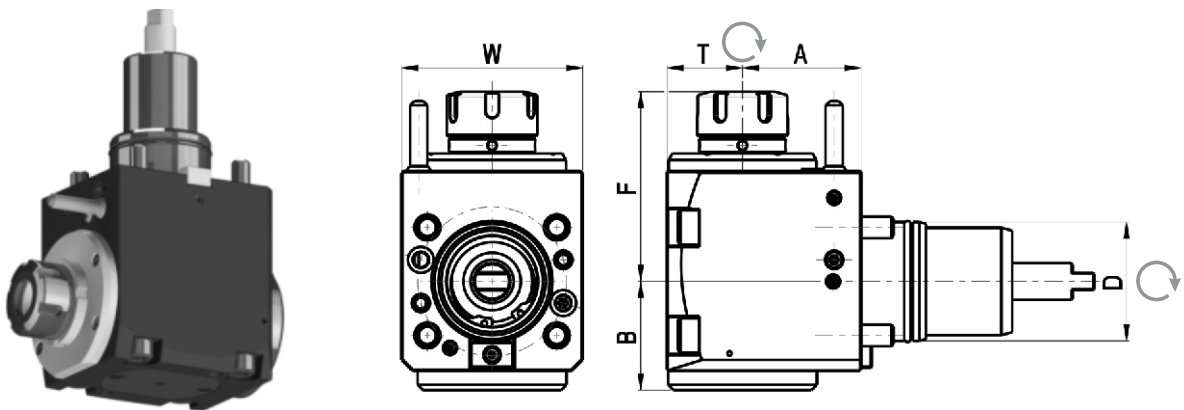
NAKAMURA-TOME LIVE TOOLHOLDERS BMT55

Straight BMT drilling and milling head



Code	D	Tool grip	Internal Cooling	F	W	W1	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL2-55/101-25/1(NT)	55	ER25	no	71	80	86	50	6000	1:1	-
EDL2-55/101-25/2(NT)	55	ER25	yes	71	80	86	50	6000	1:1	20

Angular BMT drilling and milling head

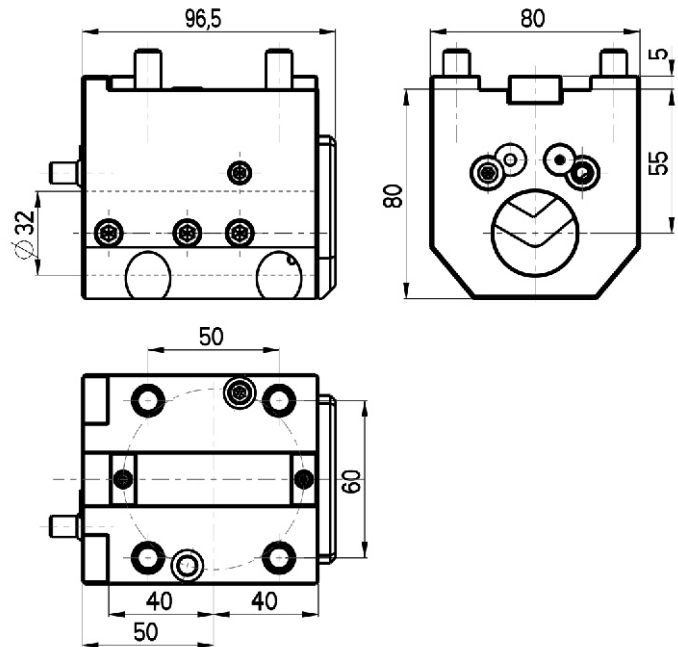
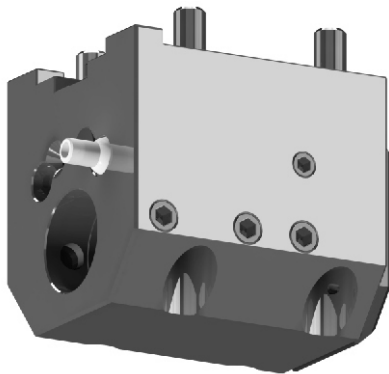


Code	D	Tool grip	Internal Cooling	Direction	A	B	F	T	W	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL2-55/201-25/1.3-55(NT)	55	ER25	no	right/left	55	50.3	74.8	35	84	28	6000	1:1	-
EDL2-55/201-25/2.3-55(NT)	55	ER25	yes	right/left	55	50.3	74.8	35	84	28	6000	1:1	20

NAKAMURA-TOME STATIC TOOLHOLDERS BMT55

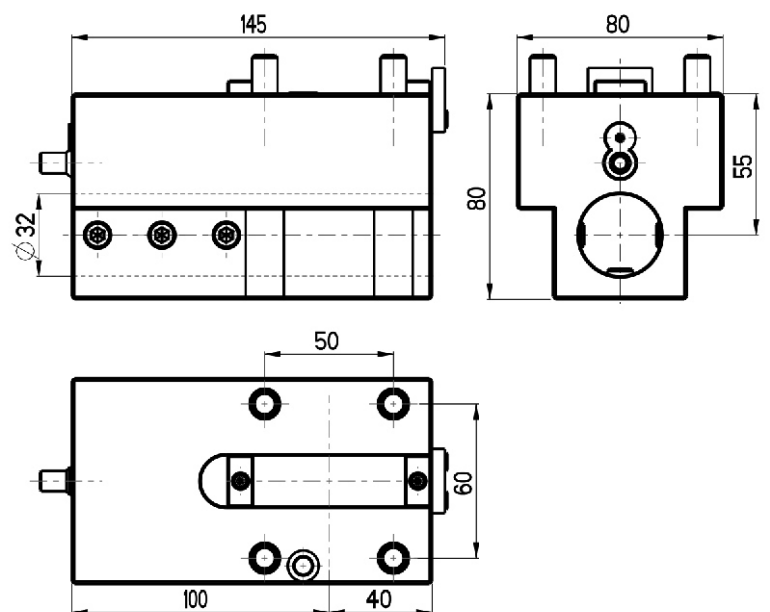
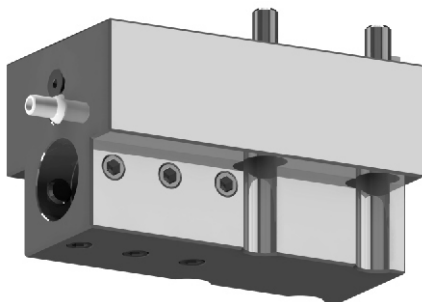
Boring bar holder

EDS ID-55x32x55S(NT)
External/Internal cooling



Extended boring bar holder

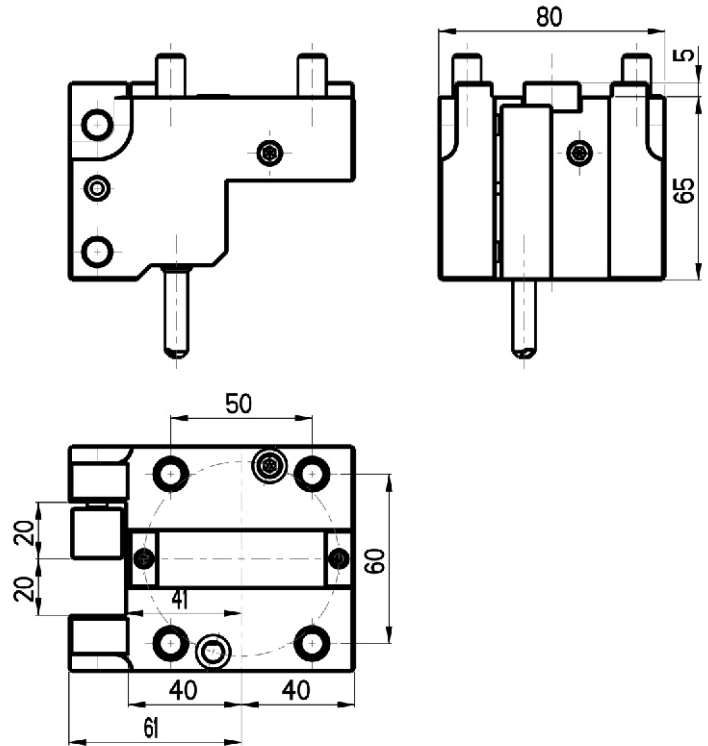
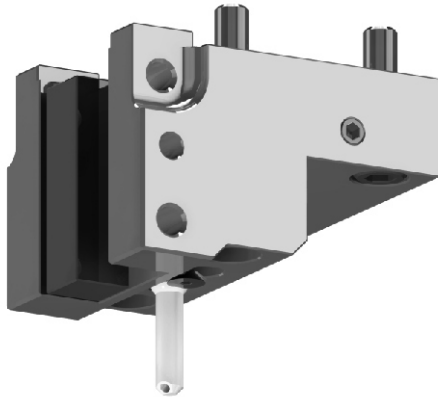
EDS ID -55x32x55 (NT)
External cooling



NAKAMURA-TOME STATIC TOOLHOLDERS BMT55

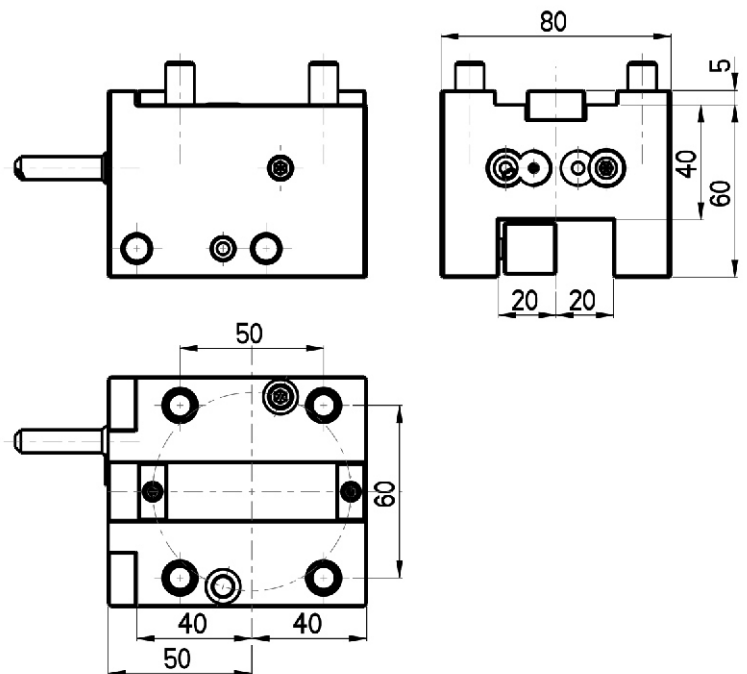
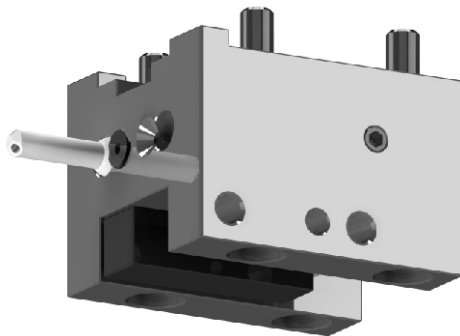
Universal turning holder

EDS OD-55x20x65(NT)
External cooling



Universal turning face holder

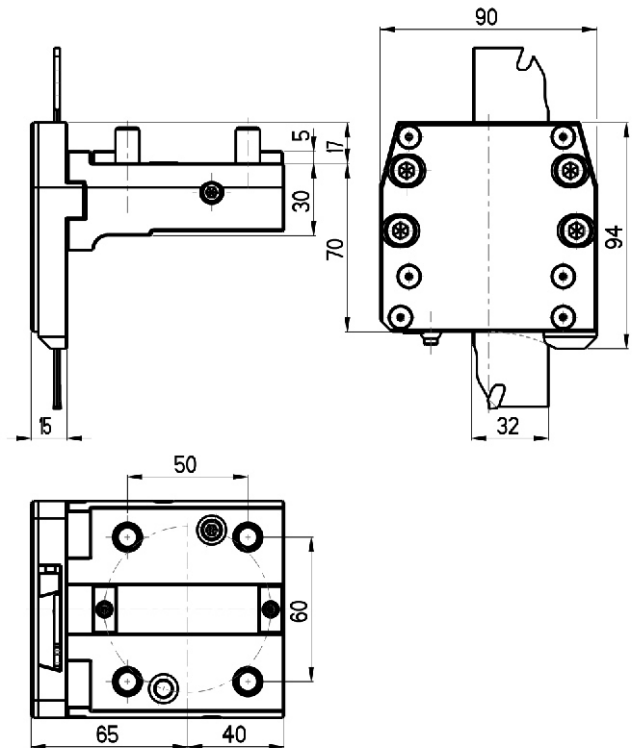
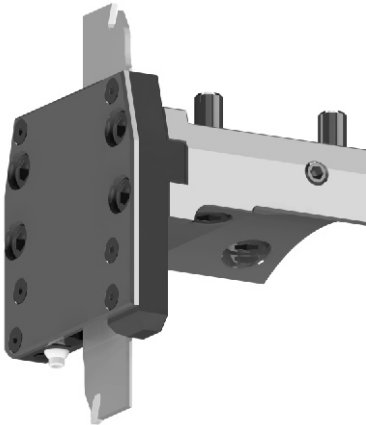
EDS F-55x20x60(NT)
External cooling



NAKAMURA-TOME STATIC TOOLHOLDERS BMT55

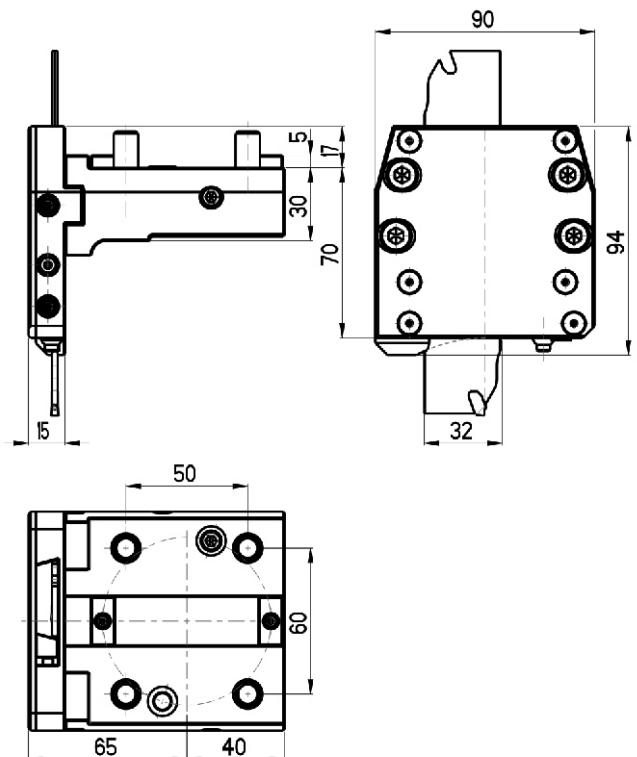
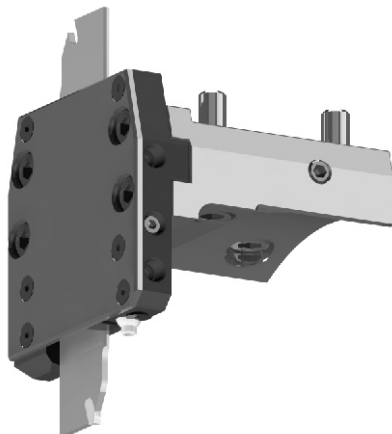
Cut off toolholder (right)

EDS CR-55x32(NT)
External cooling



Cut off toolholder (left)

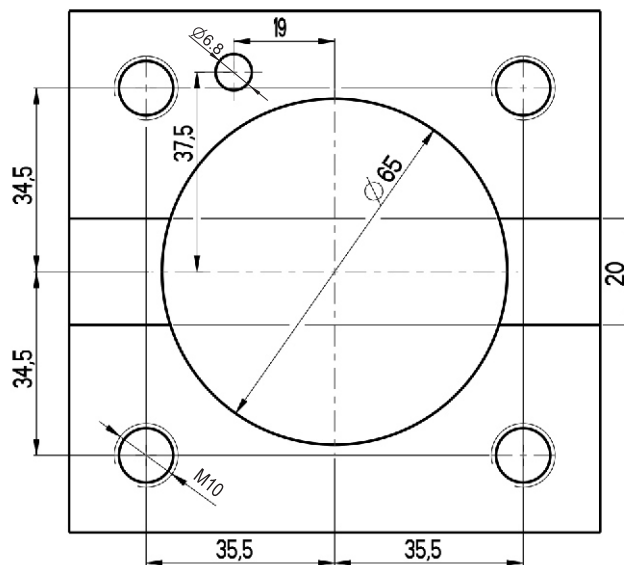
EDS CL-55x32(NT)
External cooling



NAKAMURA-TOME LIVE AND STATIC TOOLHOLDERS BMT65

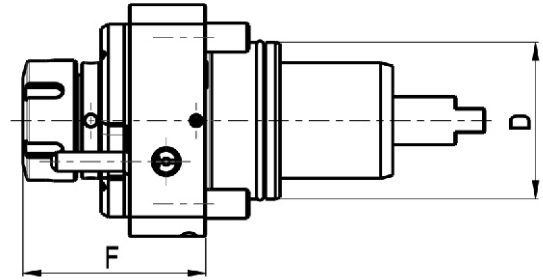
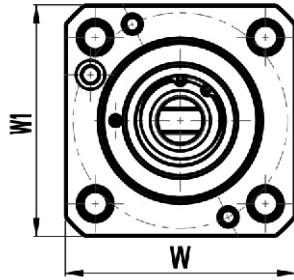
Nakamura-Tome	WT300
	SC300
	TW20
	TMC-200M, TMC-300M
	SUPER NTX
	TW20M, MY, MM, MMY, MMY (12 stations)
	TW30M, MY, MM, MMY, MMY (16 stations)

CONNECTION TURRET - NAKAMURA-TOME BMT65



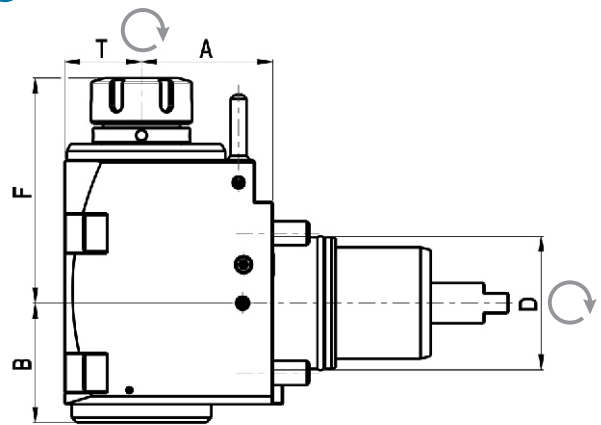
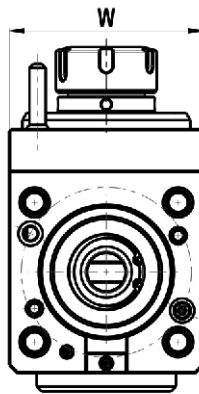
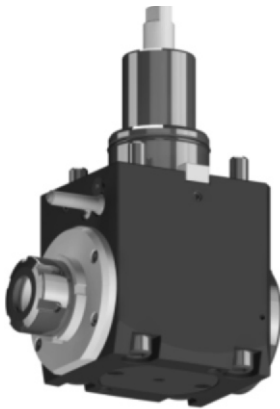
NAKAMURA-TOME LIVE TOOLHOLDERS BMT65

Straight BMT drilling and milling head



Code	D	Tool grip	Internal Cooling	F	W	W1	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL2-65/101-32/1(NT)	65	ER32	no	75	96	96	70	6000	1:1	-
EDL2-65/101-32/2(NT)	65	ER32	yes	75	96	96	70	6000	1:1	20

Angular BMT drilling and milling head



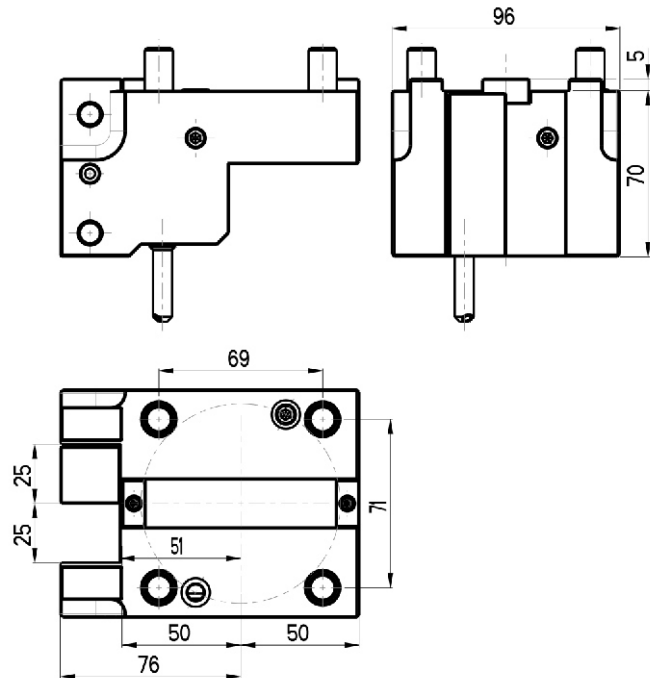
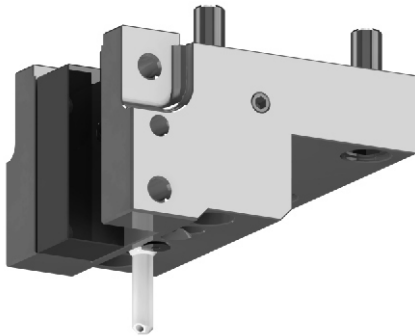
Code	D	Tool grip	Internal Cooling	Direction	A	B	F	T	W	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL2-65/201-32/1.3-65(NT)	65	ER32	no	right/left	65	59	110	38	96	70	6000	1:1	-
EDL2-65/201-32/2.3-65(NT)	65	ER32	yes	right/left	65	59	110	38	96	70	6000	1:1	20

* The straight, angular and variable toolholders can be equipped with Weldon shaft or shell-mill shaft upon request.

NAKAMURA-TOME STATIC TOOLHOLDERS BMT65

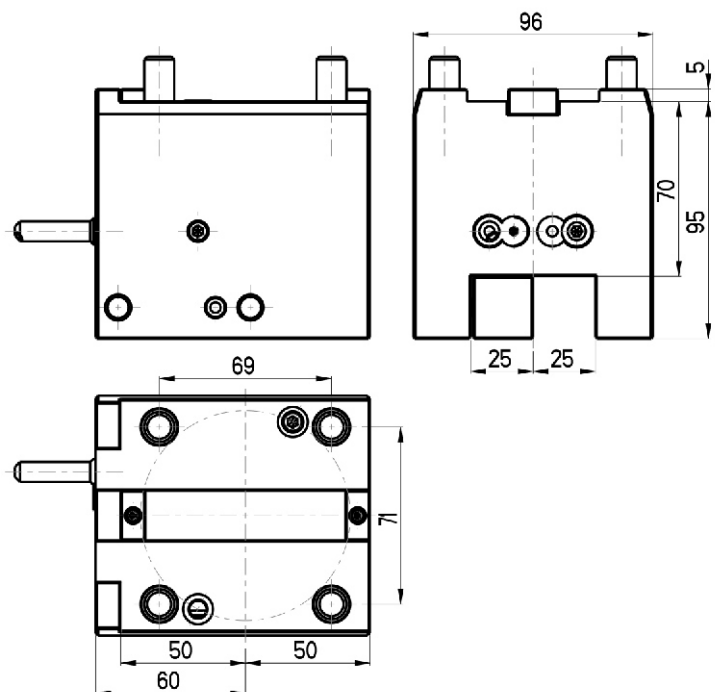
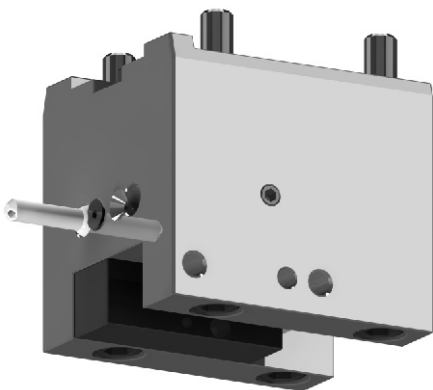
Universal turning holder

EDS OD -65x25x70(NT)
External cooling



Universal turning face holder

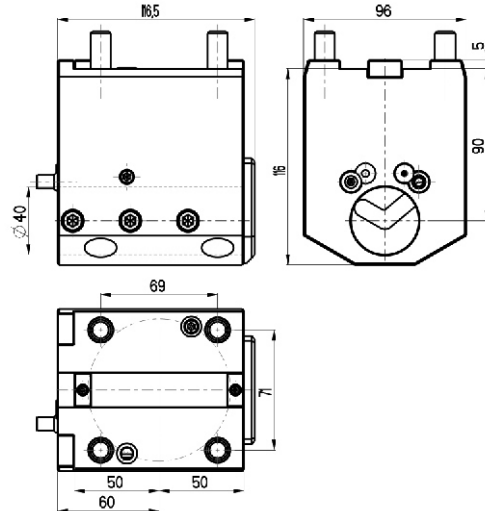
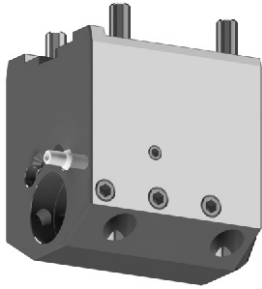
EDS F -65x25x95(NT)
External cooling



NAKAMURA-TOME STATIC TOOLHOLDERS BMT65

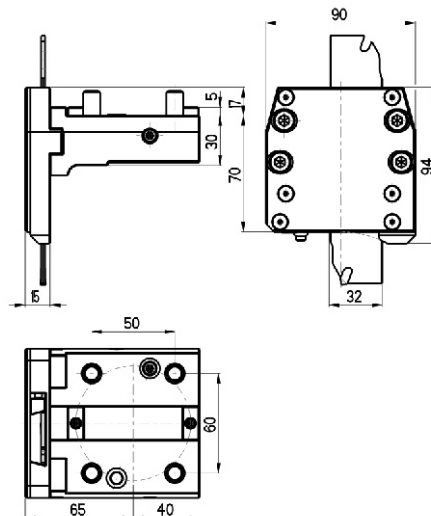
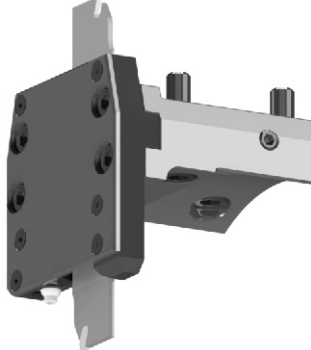
Boring bar holder

EDS ID-65x40x90(NT)
External/Internal cooling



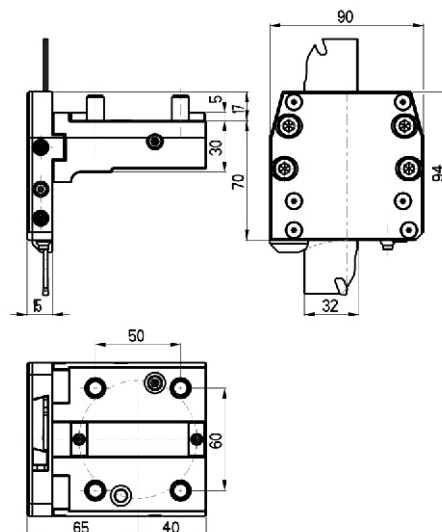
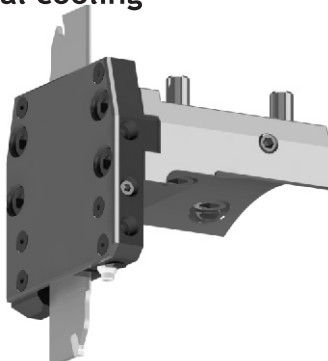
Cut off toolholder (right)

EDS CR-65x32(NT)
External cooling



Cut off toolholder (left)

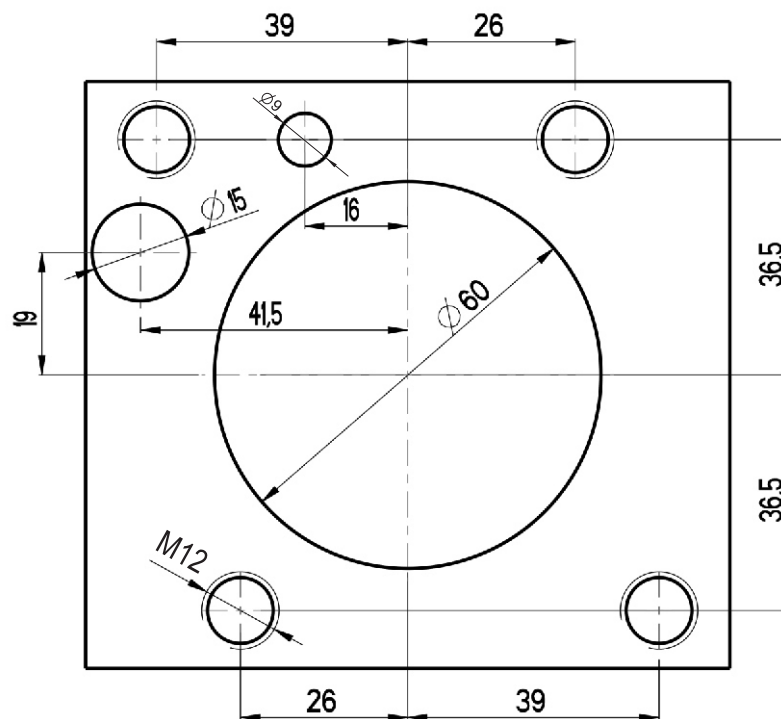
EDS CL-65x32(NT)
External cooling



OKUMA LIVE AND STATIC TOOLHOLDERS BMT60

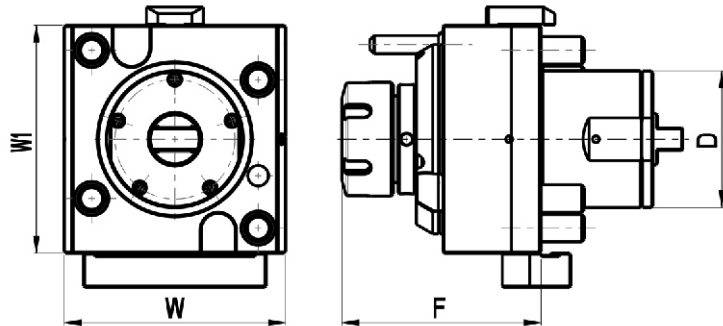
Okuma	LB2000 EX M
	LB2500 EX M
	LB3000 EX M

CONNECTION TURRET - OKUMA BMT60



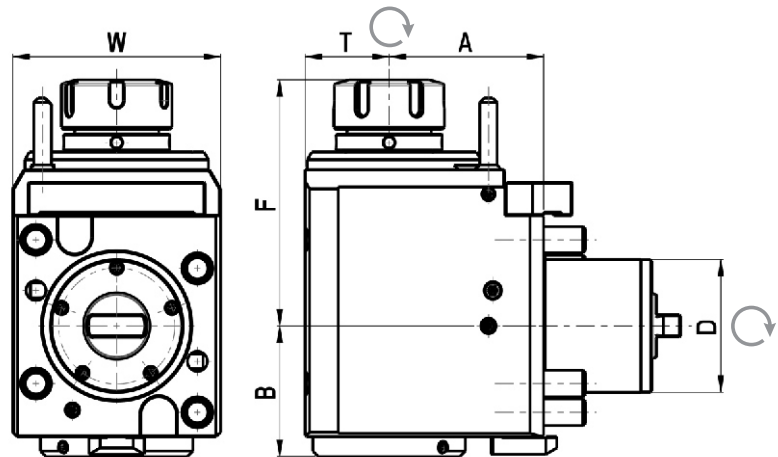
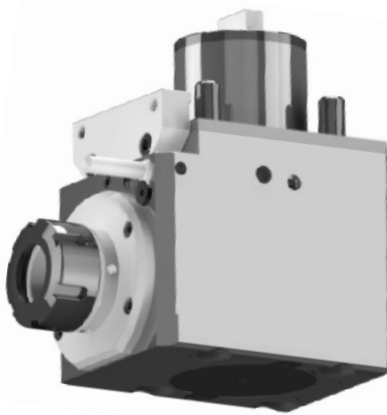
OKUMA LIVE TOOLHOLDERS BMT60

Straight BMT drilling and milling head



Code	D	Tool grip	Internal Cooling	F	W	W1	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL2-60/101-32/1(JA)	60	ER32	no	87	97	100	70	6000	1:1	-
EDL2-60/101-32/2(JA)	60	ER32	yes	87	97	100	70	6000	1:1	20

Angular BMT drilling and milling head



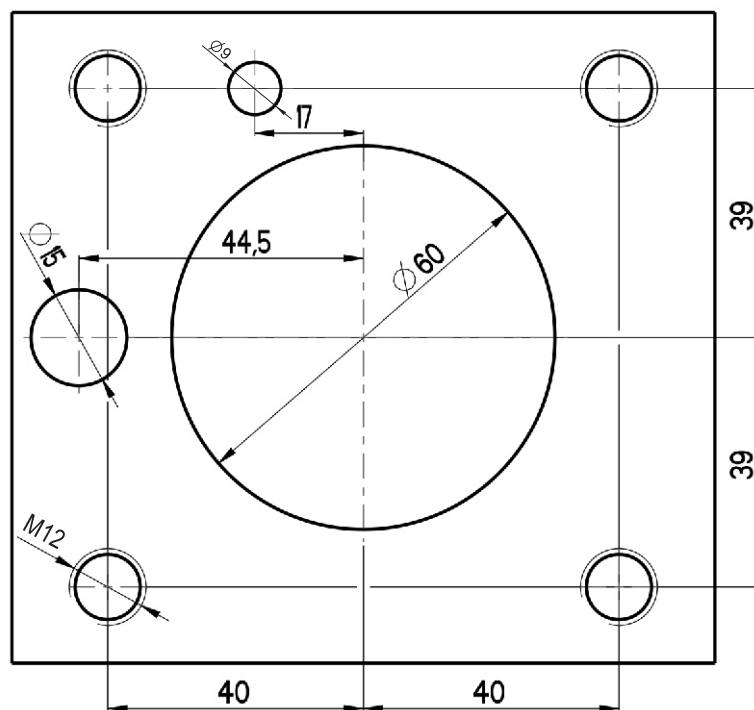
Code	D	Tool grip	Internal Cooling	Direction	A	B	F	T	W	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL2-60/201-32/1.3-70(JA)	60	ER32	no	right/left	70	59	111	38	94	70	6000	1:1	-
EDL2-60/201-32/2.3-70(JA)	60	ER32	yes	right/left	70	59	111	38	94	70	6000	1:1	20

* The straight, angular and variable toolholders can be equipped with Weldon shaft or shell-mill shaft upon request.

OKUMA LIVE AND STATIC TOOLHOLDERS BMT60

Okuma	LB4000 EX M
-------	-------------

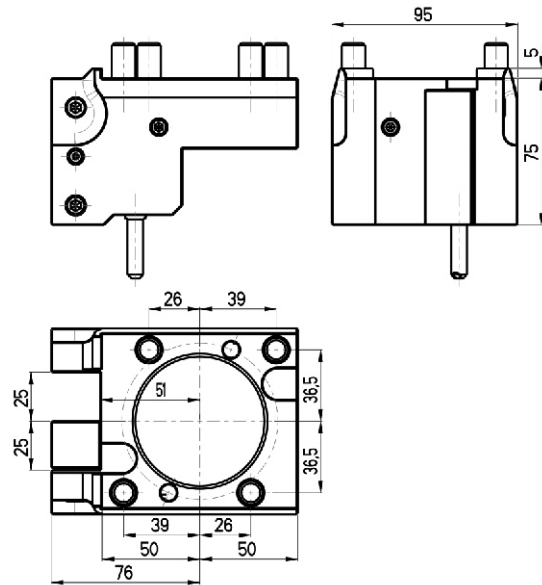
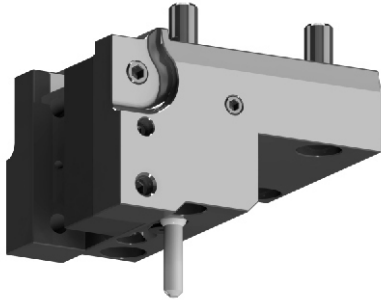
CONNECTION TURRET - OKUMA BMT60



OKUMA STATIC TOOLHOLDERS BMT60

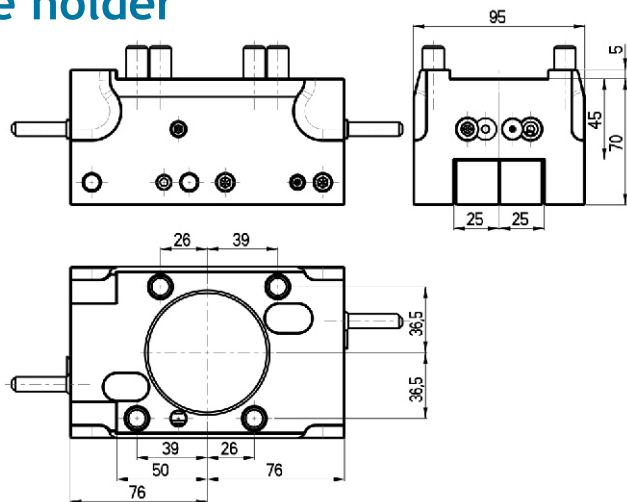
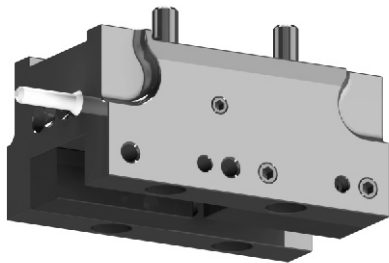
Universal turning holder

EDS OD-60x25x75(JA)
External cooling



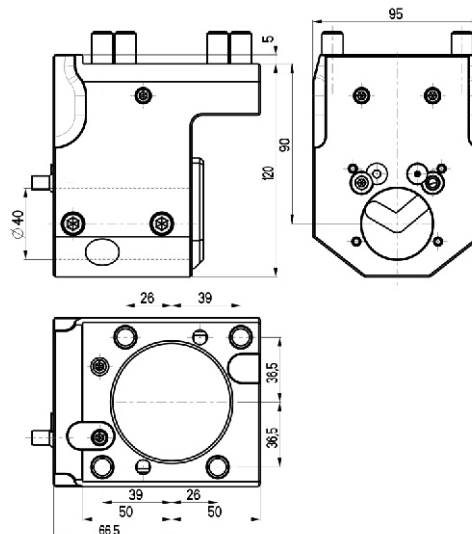
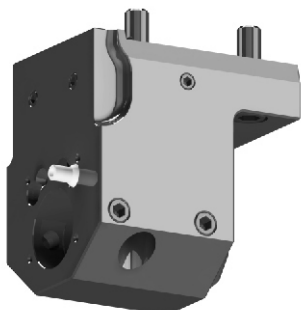
Universal turning face double holder

EDS F-60x25x70D(JA)
External cooling



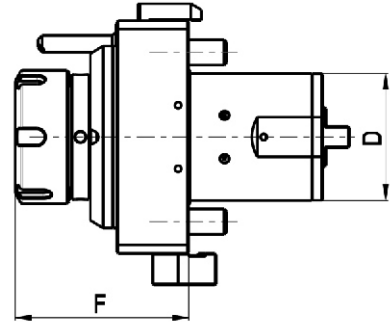
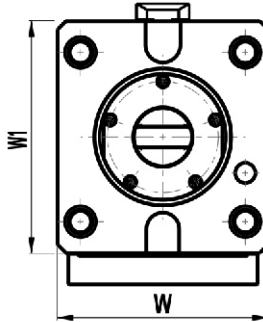
Boring bar holder

EDS ID-60x40x90(JA)
External/Internal cooling



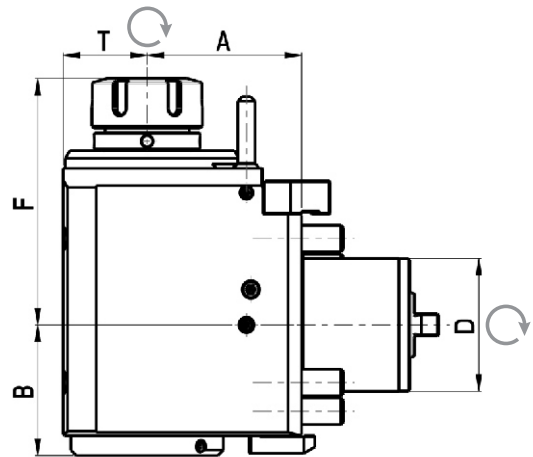
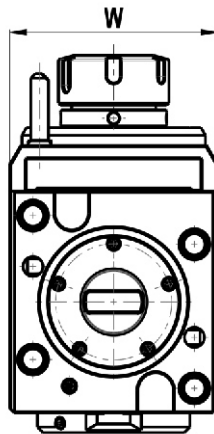
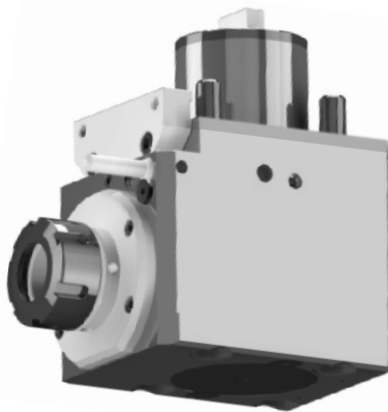
OKUMA LIVE TOOLHOLDERS BMT60

Straight BMT drilling and milling head



Code	D	Tool grip	Internal Cooling	F	W	W1	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL2-60/101-40/1(JB)	60	ER40	no	82	100	110	80	6000	1:1	-
EDL2-60/101-40/2(JB)	60	ER40	yes	82	100	110	80	6000	1:1	20

Angular BMT drilling and milling head

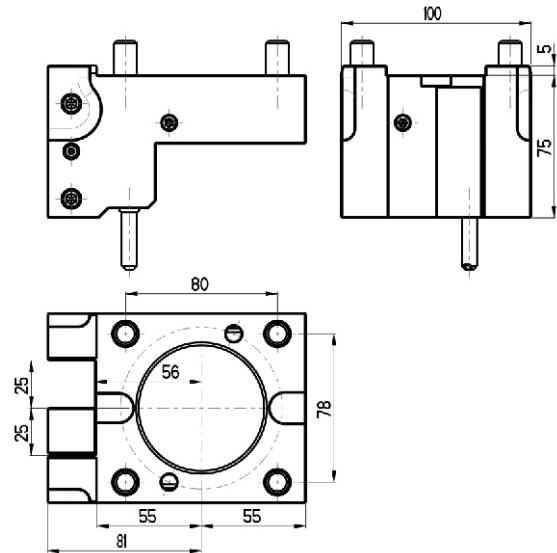
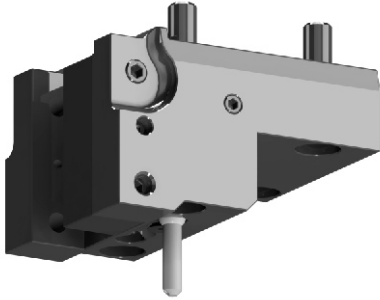


Code	D	Tool grip	Internal Cooling	Direction	A	B	F	T	W	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL2-60/201-40/1.3-85(JB)	60	ER40	no	right/left	85	64	121	44	100	80	6000	1:1	-
EDL2-60/201-40/2.3-85(JB)	60	ER40	yes	right/left	85	64	121	44	100	80	6000	1:1	20

OKUMA STATIC TOOLHOLDERS BMT60

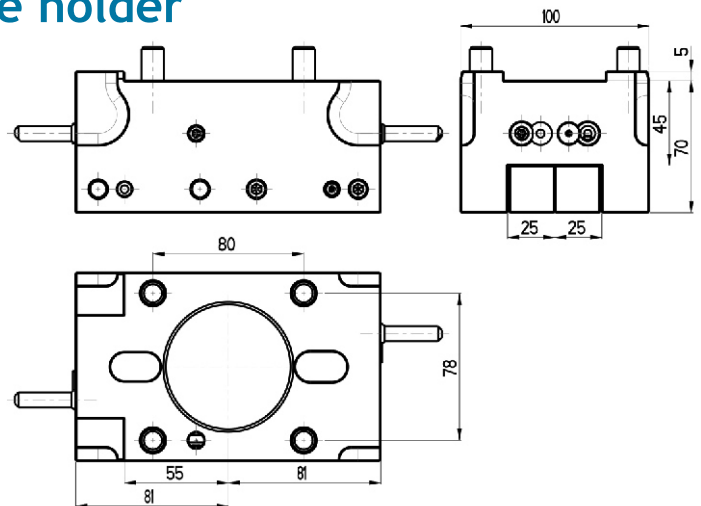
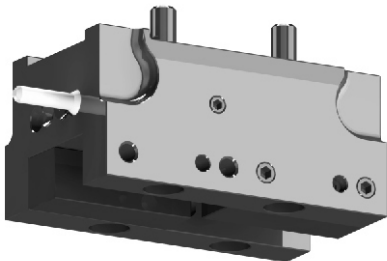
Universal turning holder

EDS OD-60x25x75(JB)
External cooling



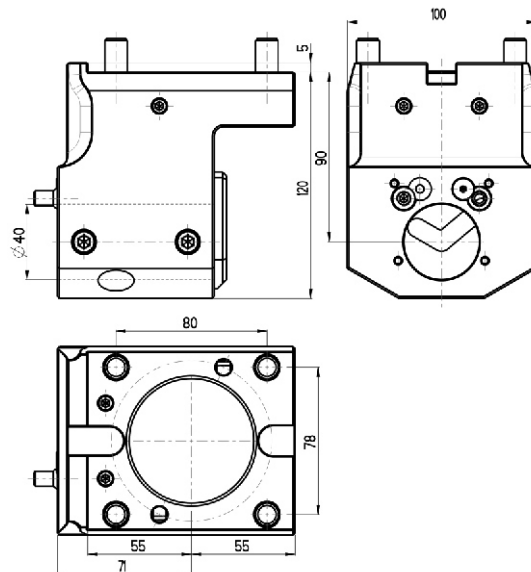
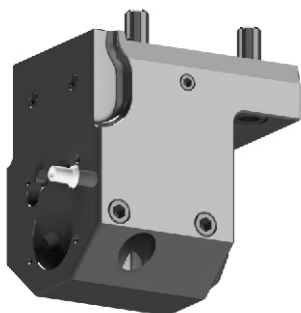
Universal turning face double holder

EDS F-60x25x70D(JB)
External cooling



Boring bar holder

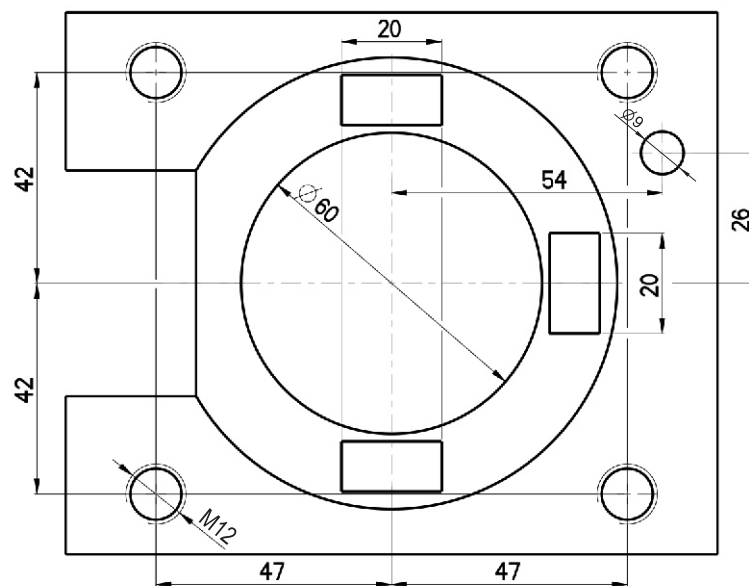
EDS ID-60x40x90(JB)
External/Internal cooling



MORI SEIKI LIVE AND STATIC TOOLHOLDERS BMT60

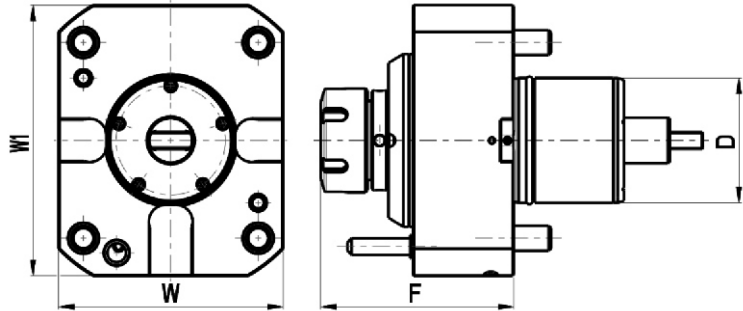
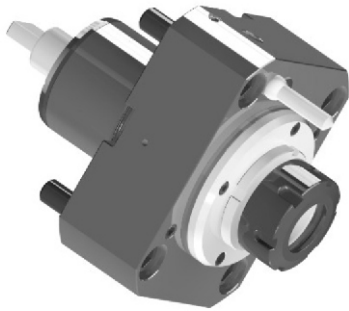
MORI SEIKI BMT60	NL 1500/2000/2500/3000
	NLX 1500/2000/2500/3000
	NT 3250/4200/4250/4300/5400
	NZL 2500

CONNECTION TURRET - MORI SEIKI BMT60



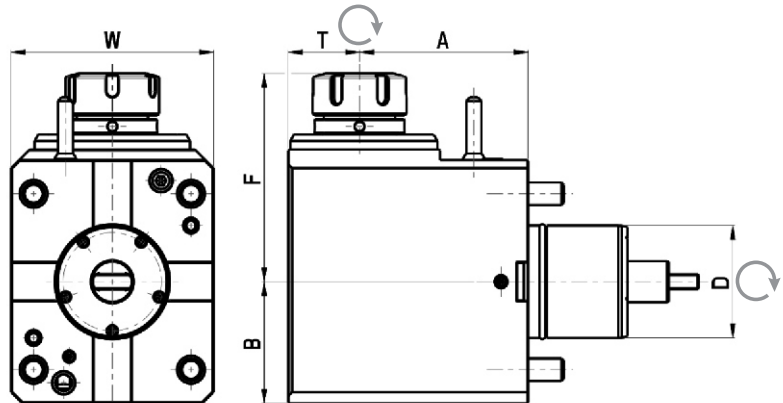
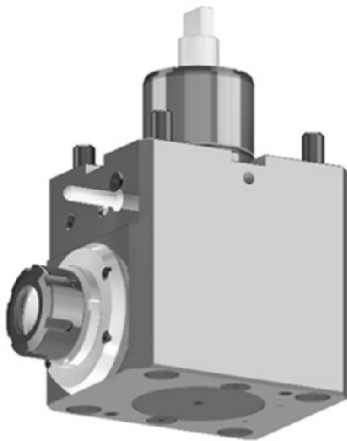
MORI SEIKI LIVE TOOLHOLDERS BMT60

Straight BMT drilling and milling head



Code	D	Tool grip	Internal Cooling	F	W	W1	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL2-60/101-32/1(MS)	60	ER32	no	89	108	130	70	6000	1:1	-
EDL2-60/101-32/2(MS)	60	ER32	yes	89	108	130	70	6000	1:1	20

Angular BMT drilling and milling head



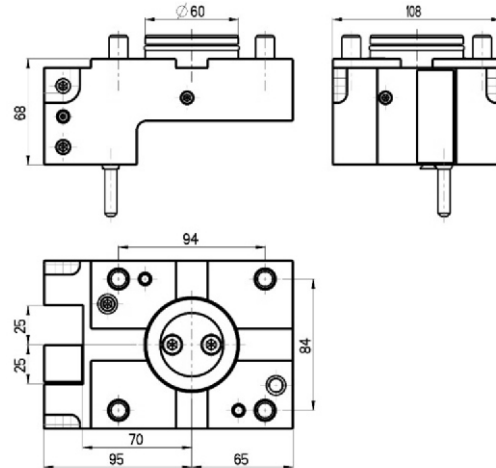
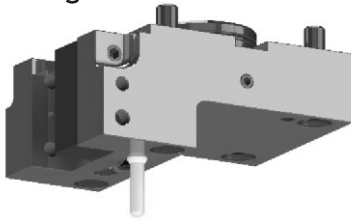
Code	D	Tool grip	Internal Cooling	Direction	A	B	F	T	W	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL2-60/201-32/1.3-90(MS)	60	ER32	no	right/left	90	65	107	38	108	70	6000	1:1	-
EDL2-60/201-32/2.3-90(MS)	60	ER32	yes	right/left	90	65	107	38	108	70	6000	1:1	20

* The straight, angular and variable toolholders can be equipped with Weldon shaft or shell-mill shaft upon request.

MORI SEIKI STATIC TOOLHOLDERS BMT60

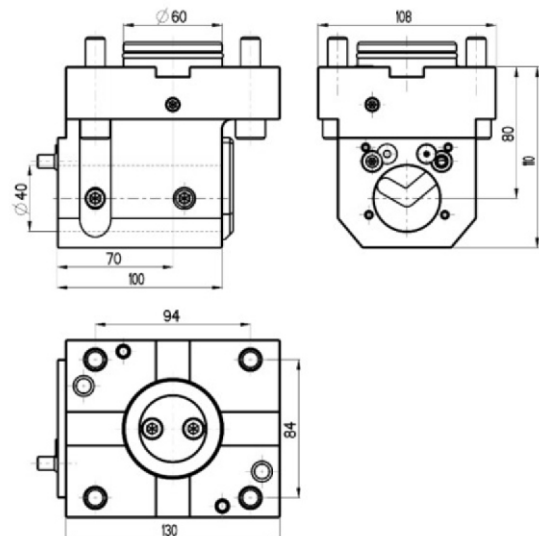
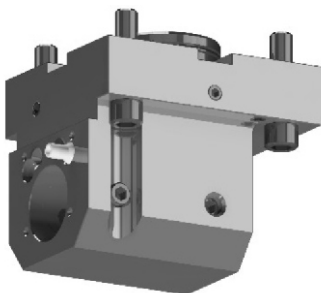
Universal turning holder

EDS OD-60x25x68(MS)
External cooling



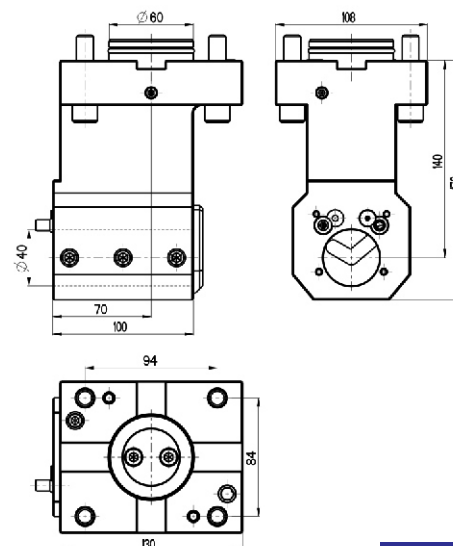
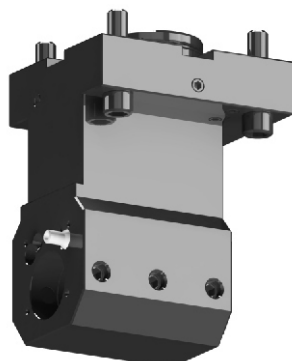
Boring bar holder

EDS ID-60x40x80(MS)
External/Internal cooling



Boring bar holder

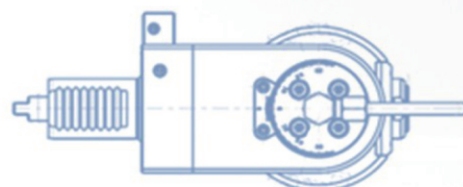
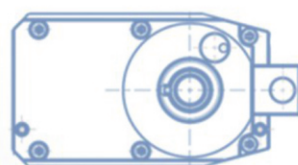
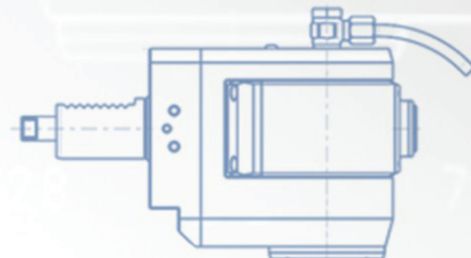
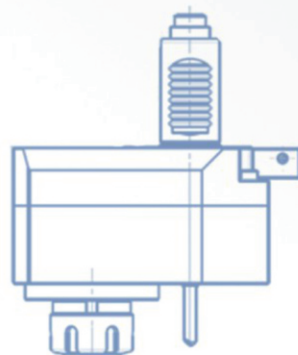
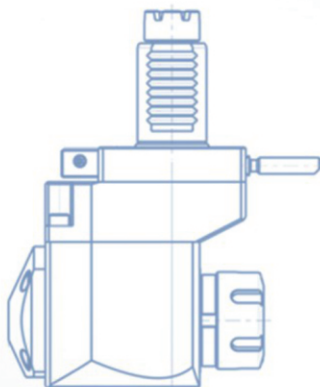
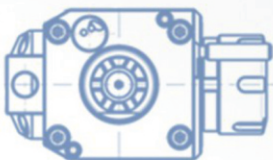
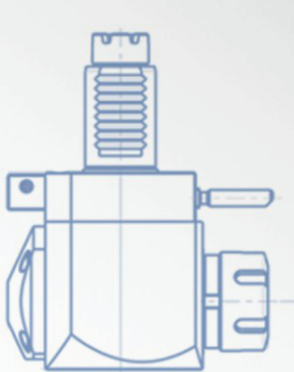
EDS ID-60x40x140(MS)
External/Internal cooling



VDI TURRET TOOLHOLDERS

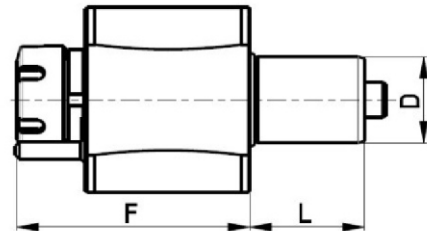
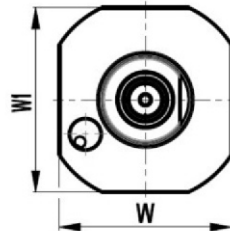
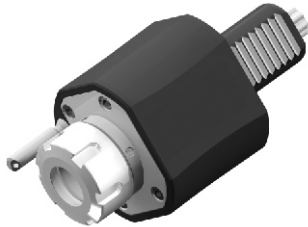
Suitable for:

AKIRA SEIKI
BARUFFALDI / TOEM
Biglia
Boehringer
DOOSAN
DUPLOMATIC DIN 1809
EMCO
Gildemeister/ DMG MORI
HAAS
Hardinge
HURCO
Hwacheon
Hyundai WIA
INDEX
Jyoti
Mazak
Monforts
Mori Seiki
NILES
OKUMA
SAUTER DIN 5480
SAUTER DIN 5482
Schaublin
Spinner
Traub
WFL



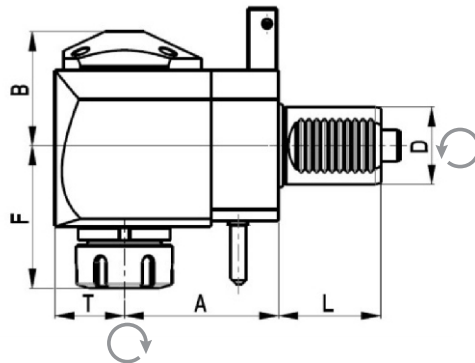
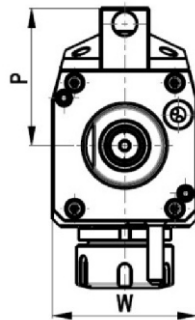
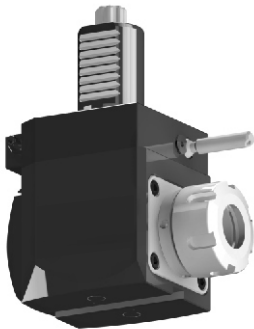
SAUTER TURRET DIN 5482

Straight drilling and milling head



Code	D	Tool grip	Internal Cooling	F	L	W	W1	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL1-30/111-25/1	30	ER25	no	89	45	64	68	28	6000	1:1	-
EDL1-30/111-25/2	30	ER25	yes	89	45	64	68	28	6000	1:1	20
EDL1-40/111-25/1	40	ER25	no	105	53	80	86	50	6000	1:1	-
EDL1-40/111-25/2	40	ER25	yes	105	53	80	86	50	6000	1:1	20
EDL1-40/111-32/1	40	ER32	no	108	53	80	86	50	6000	1:1	-
EDL1-40/111-32/2	40	ER32	yes	108	53	80	86	50	6000	1:1	20

Angular drilling and milling head

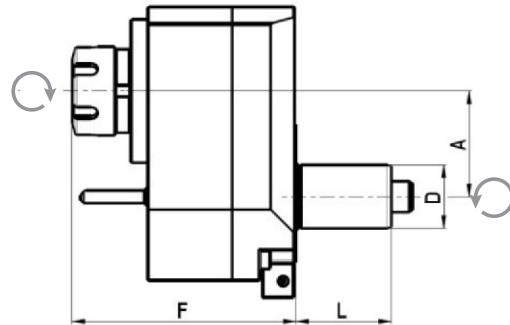
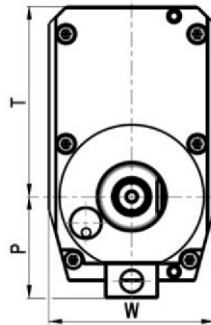
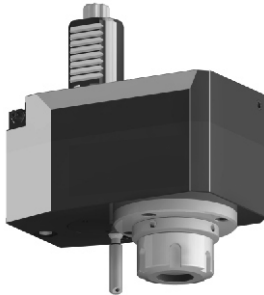


Code	D	Tool grip	Internal Cooling	Direction	A	B	F	L	P	T	W	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL1-30/211-25/1.2-55	30	ER25	no	left	55	48	64	45	48	29	64	28	6000	1:1	-
EDL1-30/211-25/2.2-55	30	ER25	yes	left	55	51	64	45	48	29	64	28	6000	1:1	20
EDL1-30/211-25/1.1-55	30	ER25	no	right	55	48	64	45	48	29	64	28	6000	1:1	-
EDL1-30/211-25/2.1-55	30	ER25	yes	right	55	51	64	45	48	29	64	28	6000	1:1	20
EDL1-40/211-25/1.1-80	40	ER25	no	right	80	59	70	53	71	36	75	50	6000	1:1	-
EDL1-40/211-25/2.1-80	40	ER25	yes	right	80	62	70	53	71	36	75	50	6000	1:1	20
EDL1-40/211-32/1.1-80	40	ER32	no	right	80	59	74	53	71	36	75	50	6000	1:1	-
EDL1-40/211-32/2.1-80	40	ER32	yes	right	80	62	74	53	71	36	75	50	6000	1:1	20
EDL1-40/211-25/1.2-80	40	ER25	no	left	80	59	70	53	71	36	75	50	6000	1:1	-
EDL1-40/211-25/2.2-80	40	ER25	yes	left	80	62	70	53	71	36	75	50	6000	1:1	20
EDL1-40/211-32/1.2-80	40	ER32	no	left	80	59	74	53	71	36	75	50	6000	1:1	-
EDL1-40/211-32/2.2-80	40	ER32	yes	left	80	62	74	53	71	36	75	50	6000	1:1	20

SAUTER TURRET DIN 5482

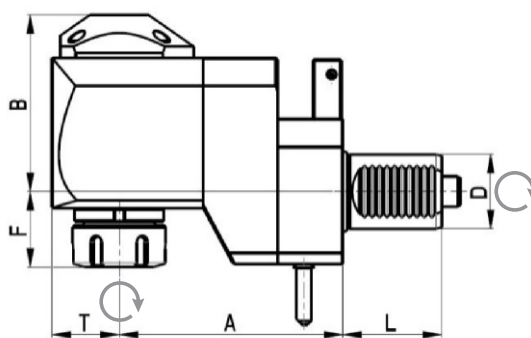
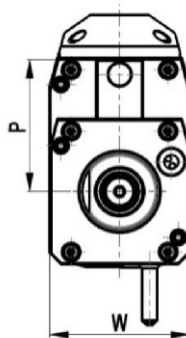
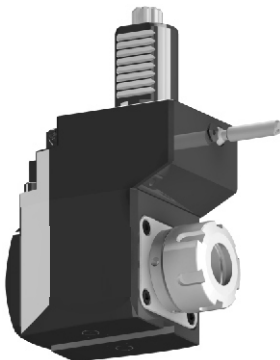


Offset straight drilling and milling head



Code	D	Tool grip	Internal Cooling	Direction	A	F	L	P	T	W	Torque [Nm]	Speed [rpm]	Ratio
EDL1-30/311-25/1.1-50(1:2)	30	ER25	no	right	50	106	45	48	90	78	14	12000	1:2
EDL1-30/311-25/1.1-50(2:1)	30	ER25	no	right	50	106	45	48	90	78	40	3000	2:1

Offset angular drilling and milling head

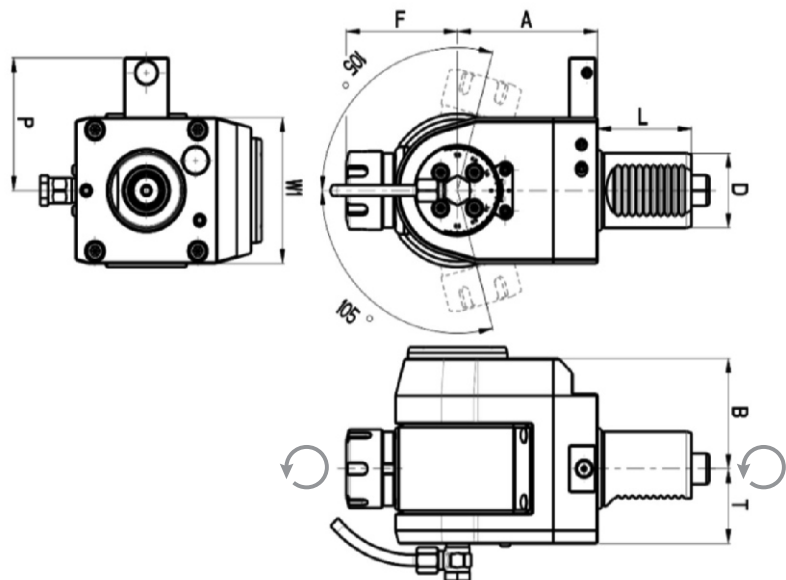
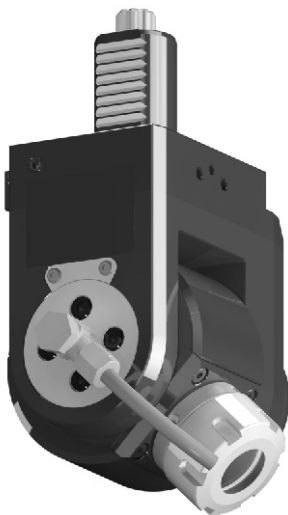


Code	D	Tool grip	Internal Cooling	Direction	A	B	F	L	P	T	W	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL1-30/411-25/1.1-75	30	ER25	no	right	75	71	40	45	48	29	64	28	6000	1:1	-
EDL1-30/411-25/2.1-75	30	ER25	yes	right	75	74	40	45	48	29	64	28	6000	1:1	20
EDL1-30/411-25/1.2-75	30	ER25	no	left	75	71	40	45	48	29	64	28	6000	1:1	-
EDL1-30/411-25/2.2-75	30	ER25	yes	left	75	74	40	45	48	29	64	28	6000	1:1	20
EDL1-40/411-25/1.1-120	40	ER25	no	right	120	92	37	53	71	36	75	50	6000	1:1	-
EDL1-40/411-25/2.1-120	40	ER25	yes	right	120	95	37	53	71	36	75	50	6000	1:1	20
EDL1-40/411-32/1.1-120	40	ER32	no	right	120	92	41	53	71	36	75	50	6000	1:1	-
EDL1-40/411-32/2.1-120	40	ER32	yes	right	120	95	41	53	71	36	75	50	6000	1:1	20

SAUTER TURRET DIN 5482



Variable angle drilling and milling head

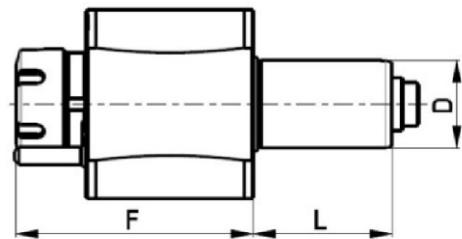
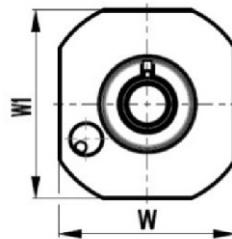
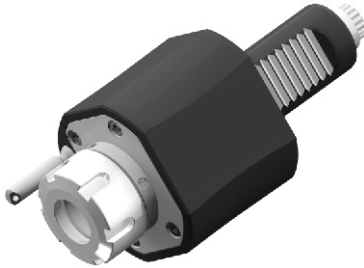


Code	D	Tool grip	Internal Cooling	Direction	A	B	F	L	P	T	W1	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL1-30/511-16/1	30	ER16	no	right/left	79	59	43	45	48	40	64	16	6000	1:1	-
EDL1-30/511-16/2	30	ER16	yes	right/left	86	59	43	45	48	40	64	16	6000	1:1	20
EDL1-30/511-25/1	30	ER25	no	right/left	79	59	64	45	48	40	64	16	6000	1:1	-
EDL1-30/511-25/2	30	ER25	yes	right/left	86	59	64	45	48	40	64	16	6000	1:1	20
EDL1-40/511-25/1	40	ER25	no	right/left	79	59	64	53	71	40	78	16	6000	1:1	-
EDL1-40/511-25/2	40	ER25	yes	right/left	86	59	64	53	71	40	78	16	6000	1:1	20

SAUTER TURRET DIN 5480

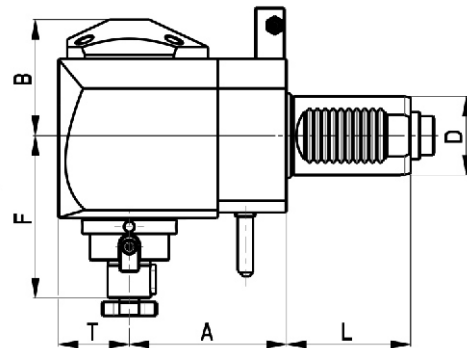
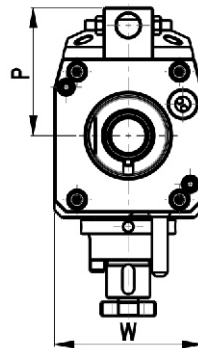
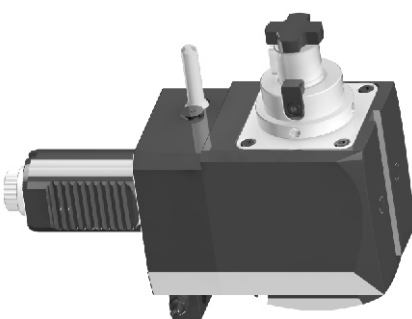


Straight drilling and milling head



Code	D	Tool grip	Internal Cooling	F	L	W	W1	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL1-30/131-25/1	30	ER25	no	89	55	64	68	28	6000	1:1	-
EDL1-30/131-25/2	30	ER25	yes	89	55	64	68	28	6000	1:1	20
EDL1-30/133-16/1	30	shell mill 16	no	93.5	55	64	68	28	6000	1:1	-
EDL1-40/131-25/1	40	ER25	no	105	64	80	86	50	6000	1:1	-
EDL1-40/131-25/2	40	ER25		105	64	80	86	50	6000	1:1	20
EDL1-40/131-32/1	40	ER32	no	108	64	80	86	50	6000	1:1	-
EDL1-40/131-32/2	40	ER32	yes	108	64	80	86	50	6000	1:1	20
EDL1-40/133-22/1	40	shell mill 22	no	115.5	64	80	86	50	6000	1:1	-
EDL1-40/133-16/1	40	shell mill 16	no	112.5	64	80	86	50	6000	1:1	-

Angular drilling and milling head with Weldon shaft

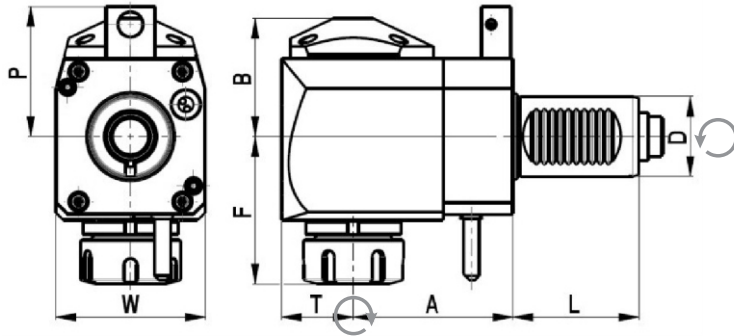
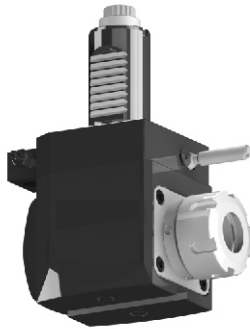


Code	D	Tool grip	I.C.	Direction	A	B	F	L	P	T	W	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL1-40/233-16/1.1-80	40	Ø16	no	right	80	59	76.5	63	65	36	75	50	6000	1:1	-
EDL1-40/233-22/1.1-80	40	Ø22	no	right	80	59	76.5	63	65	36	75	50	6000	1:1	-

SAUTER TURRET DIN 5480



Angular drilling and milling head

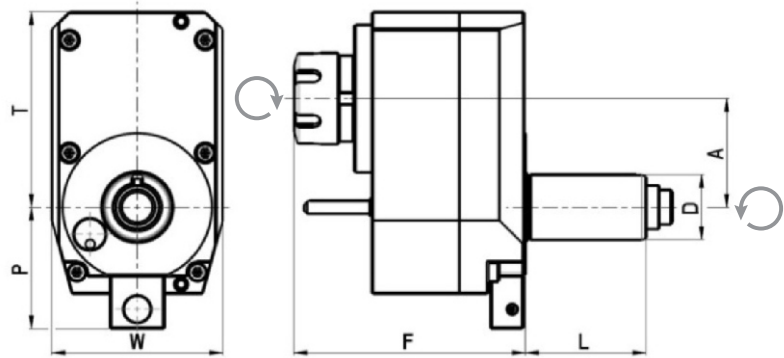
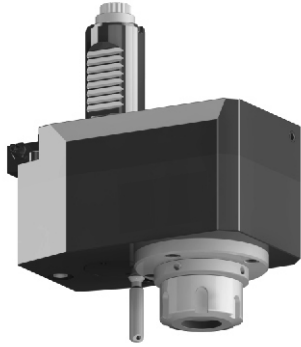


Code	D	Tool grip	I.C.	Direction	A	B	F	L	P	T	W	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL1-30/231-25/1.1-55	30	ER25	no	right	55	48	64	55	56	29	64	28	6000	1:1	-
EDL1-30/231-25/2.1-55	30	ER25	yes	right	55	51	64	55	56	29	64	28	6000	1:1	20
EDL1-30/231-25/1.1-85	30	ER25	no	right	85	48	64	55	56	29	64	28	6000	1:1	-
EDL1-30/231-25/2.1-85	30	ER25	yes	right	85	51	64	55	56	29	64	28	6000	1:1	20
EDL1-30/231-25/1.1-100	30	ER25	no	right	100	48	64	55	56	29	64	28	6000	1:1	-
EDL1-30/231-25/2.1-100	30	ER25	yes	right	100	51	64	55	56	29	64	28	6000	1:1	20
EDL1-30/231-25/2.2-100	30	ER25	yes	left	100	51	64	55	56	29	64	28	6000	1:1	20
EDL1-30/231-25/1.2-100	30	ER25	yes	right	100	48	64	55	56	29	64	28	6000	1:1	-
EDL1-30/231-25/1.2-55	30	ER25	no	left	55	48	64	55	56	29	64	28	6000	1:1	-
EDL1-30/231-25/2.2-55	30	ER25	yes	left	55	51	64	55	56	29	64	28	6000	1:1	20
EDL1-30/231-25/1.2-85	30	ER25	no	left	85	48	64	55	56	29	64	28	6000	1:1	-
EDL1-30/231-25/2.2-85	30	ER25	yes	left	85	51	64	55	56	29	64	28	6000	1:1	20
EDL1-40/231-25/1.1-80	40	ER25	no	right	80	59	70	64	65	36	75	50	6000	1:1	-
EDL1-40/231-25/2.1-80	40	ER25	yes	right	80	62	70	64	65	36	75	50	6000	1:1	20
EDL1-40/231-32/1.1-80	40	ER32	no	right	80	59	74	64	65	36	75	50	6000	1:1	-
EDL1-40/231-32/2.1-80	40	ER32	yes	right	80	62	74	64	65	36	75	50	6000	1:1	20
EDL1-40/231-25/1.1-100	40	ER25	no	right	100	59	70	64	65	36	75	50	6000	1:1	-
EDL1-40/231-25/2.1-100	40	ER25	yes	right	100	62	70	64	65	36	75	50	6000	1:1	20
EDL1-40/231-32/1.1-100	40	ER32	no	right	100	59	74	64	65	36	75	50	6000	1:1	-
EDL1-40/231-32/2.1-100	40	ER32	yes	right	100	62	74	64	65	36	75	50	6000	1:1	20
EDL1-40/231-25/1.2-80	40	ER25	no	left	80	59	70	64	65	36	75	50	6000	1:1	-
EDL1-40/231-25/2.2-80	40	ER25	yes	left	80	62	70	64	65	36	75	50	6000	1:1	20
EDL1-40/231-32/1.2-80	40	ER32	no	left	80	59	74	64	65	36	75	50	6000	1:1	-
EDL1-40/231-32/2.2-80	40	ER32	yes	left	80	62	74	64	65	36	75	50	6000	1:1	20
EDL1-40/231-25/1.2-100	40	ER25	no	left	100	59	70	64	65	36	75	50	6000	1:1	-
EDL1-40/231-25/2.2-100	40	ER25	yes	left	100	62	70	64	65	36	75	50	6000	1:1	20
EDL1-40/231-32/1.2-100	40	ER32	no	left	100	59	74	64	65	36	75	50	6000	1:1	-
EDL1-40/231-32/2.2-100	40	ER32	yes	left	100	62	74	64	65	36	75	50	6000	1:1	20
EDL1-40/233-22/1.1-80	40	shell mill 22	no	right	80	59	79.5	64	65	36	75	50	6000	1:1	-
EDL1-40/233-16/1.1-80	40	shell mill 16	no	right	80	62	76.5	64	65	36	75	50	6000	1:1	-

SAUTER TURRET DIN 5480

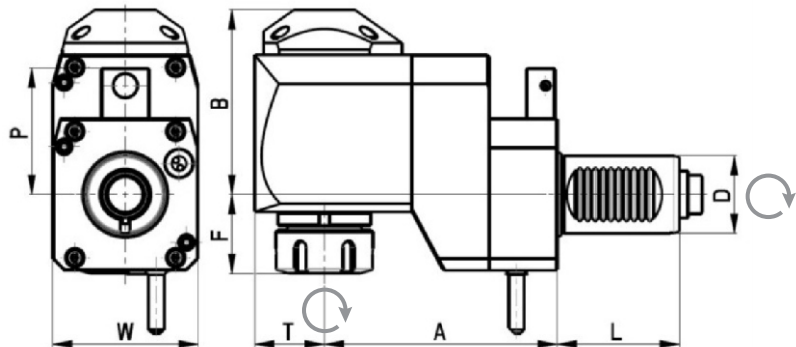
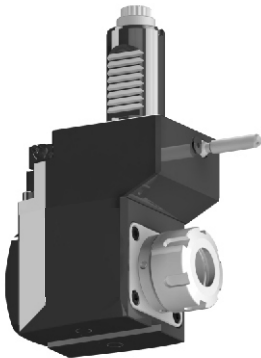


Offset straight drilling and milling head



Code	D	Tool grip	IC	Direction	A	F	L	P	T	W	Torque [Nm]	Speed [rpm]	Ratio
EDL1-30/331-25/1.1-50(1:2)	30	ER25	no	right	50	106	55	56	90	78	14	12000	1:2
EDL1-30/331-25/1.1-50(2:1)	30	ER25	no	right	50	106	55	56	90	78	40	3000	2:1

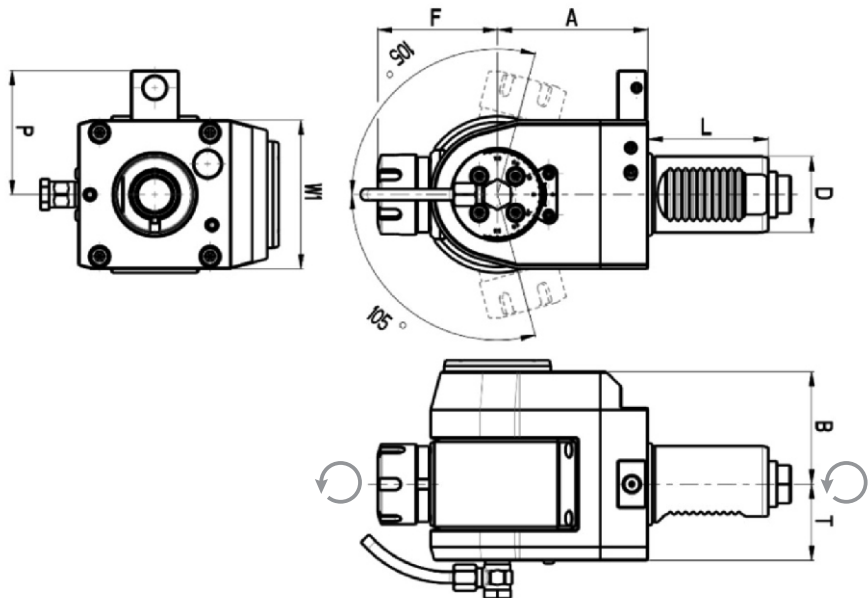
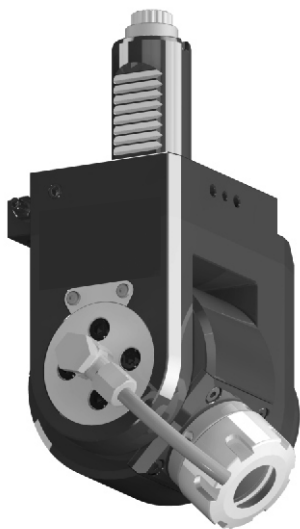
Offset angular drilling and milling head



Code	D	Tool grip	IC	Direction	A	B	F	L	P	T	W	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL1-30/431-25/1.1-75	30	ER25	no	right	75	71	40	55	56	29	64	28	6000	1:1	-
EDL1-30/431-25/2.1-75	30	ER25	yes	right	75	74	40	55	56	29	64	28	6000	1:1	20
EDL1-40/431-25/1.1-120	40	ER25	no	right	120	92	37	64	65	36	75	50	6000	1:1	-
EDL1-40/431-25/2.1-120	40	ER25	yes	right	120	95	37	64	65	36	75	50	6000	1:1	20
EDL1-40/431-32/1.1-120	40	ER32	no	right	120	92	41	64	65	36	75	50	6000	1:1	-
EDL1-40/431-32/2.1-120	40	ER32	yes	right	120	95	41	64	65	36	75	50	6000	1:1	20

SAUTER TURRET DIN 5480

Variable angle drilling and milling head



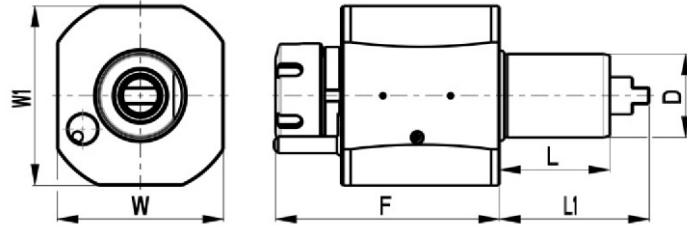
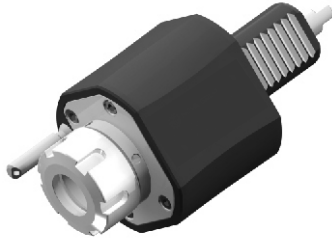
Code	D	Tool grip	Internal Cooling	Direction	A	B	F	L	P	T	W1	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL1-30/531-16/1	30	ER16	no	right/left	79	59	43	55	56	40	64	16	6000	1:1	-
EDL1-30/531-16/2	30	ER16	yes	right/left	86	59	43	55	56	40	64	16	6000	1:1	20
EDL1-30/531-25/1	30	ER25	no	right/left	79	59	43	55	56	40	64	16	6000	1:1	-
EDL1-30/531-25/2	30	ER25	yes	right/left	86	59	43	55	56	40	64	16	6000	1:1	20
EDL1-40/531-25/1	40	ER25	no	right/left	79	59	64	64	65	40	78	16	6000	1:1	-
EDL1-40/531-25/2	40	ER25	yes	right/left	86	59	64	64	65	40	78	16	6000	1:1	20

* The straight, angular and variable toolholders can be equipped with Weldon shaft or shell-mill shaft upon request.

DUPLOMATIC TURRET DIN 1809

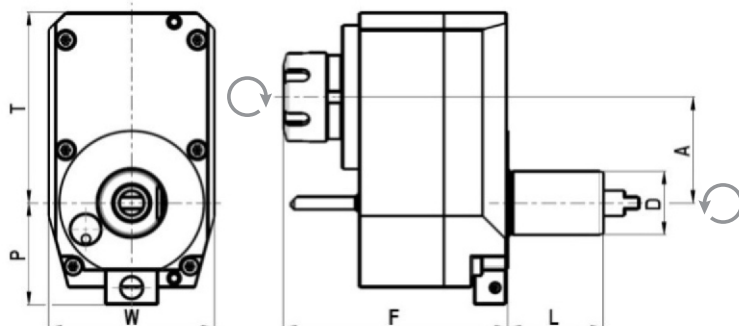
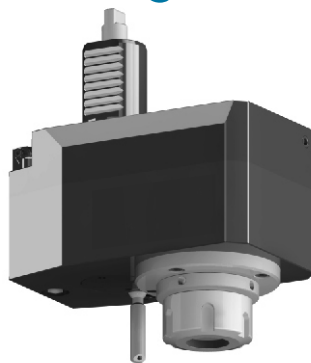


Straight drilling and milling head



Code	D	Tool grip	IC	F	L	L1	W	W1	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL1-30/121-25/1	30	ER25	no	89	45	62	64	68	28	6000	1:1	-
EDL1-30/121-25/2	30	ER25	yes	89	45	62	64	68	28	6000	1:1	20
EDL1-30/121-25/1B	30	ER25	no	89	55	67	64	68	28	6000	1:1	-
EDL1-30/121-25/2B	30	ER25	yes	89	55	67	64	68	28	6000	1:1	20
EDL1-40/121-25/1	40	ER25	no	105	53	72	80	86	50	6000	1:1	-
EDL1-40/121-25/2	40	ER25	yes	105	53	72	80	86	50	6000	1:1	20
EDL1-40/121-32/1	40	ER32	no	108	53	72	80	86	50	6000	1:1	-
EDL1-40/121-32/2	40	ER32	yes	108	53	72	80	86	50	6000	1:1	20
EDL1-40/121-32/1S	40	ER32	no	95	53	72	80	86	50	6000	1:1	-
EDL1-40/121-32/2S	40	ER32	yes	95	53	72	80	86	50	6000	1:1	20

Offset straight drilling and milling head

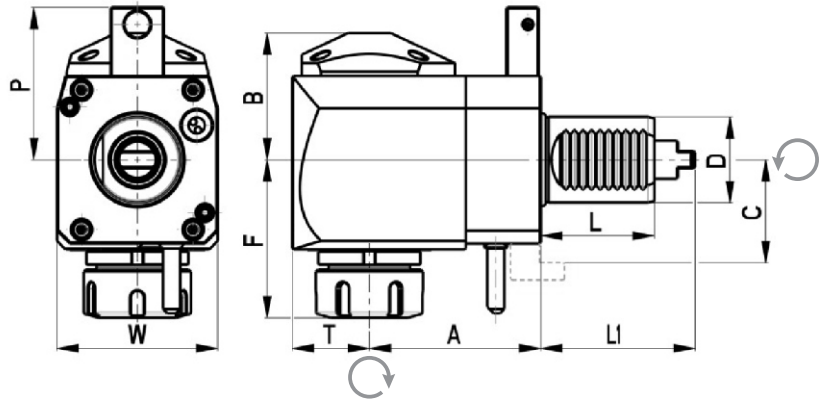
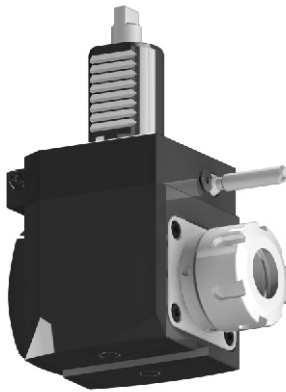


Code	D	Tool grip	IC	Direction	A	F	L	P	T	W	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL1-30/321-25/1.1-50(1:2)	30	ER25	no	right	50	106	45	48	90	78	14	12000	1:2	-
EDL1-30/321-25/1.1-50(2:1)	30	ER25	no	right	50	106	45	48	90	78	40	3000	2:1	-

DIPLOMATIC TURRET DIN 1809



Angular drilling and milling head

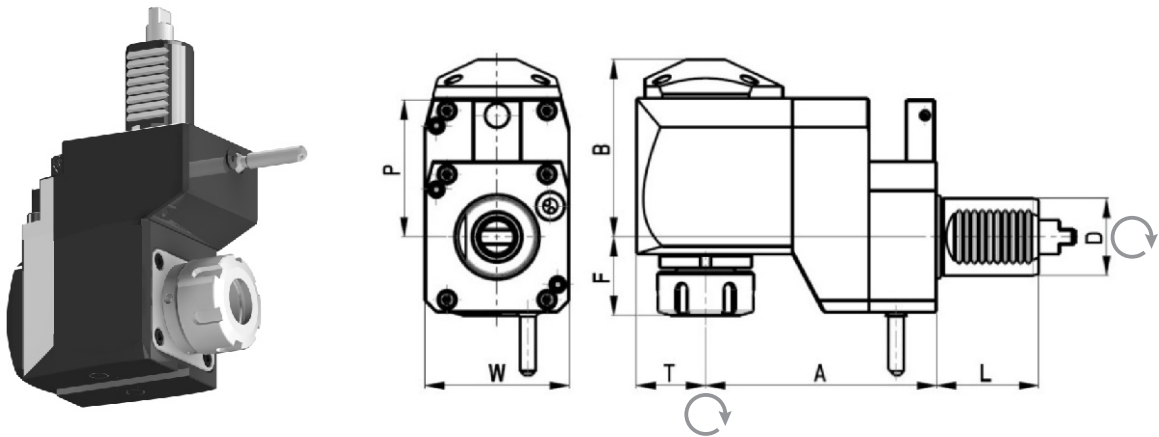


Code	D	Tool grip	IC	Direction	A	B	F	L	L1	P	C	T	W	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL1-30/221-25/1.1-55	30	ER25	no	right	55	48	64	45	62	48	-	29	64	28	6000	1:1	-
EDL1-30/221-25/2.1-55	30	ER25	yes	right	55	51	64	45	62	48	-	29	64	28	6000	1:1	20
EDL1-30/221-25/1.1-55B	30	ER25	no	right	55	48	64	55	67	48	-	29	64	28	6000	1:1	-
EDL1-30/221-25/2.1-55B	30	ER25	yes	right	55	51	64	55	67	48	-	29	64	28	6000	1:1	20
EDL1-30/221-25/1.2-55B	30	ER25	no	left	55	48	64	55	67	48	-	29	64	28	6000	1:1	-
EDL1-30/221-25/2.2-55B	30	ER25	yes	left	55	51	64	55	67	48	-	29	64	28	6000	1:1	20
EDL1-40/221-25/1.1-80	40	ER25	no	right	80	59	72	53	72	71	-	36	75	50	6000	1:1	-
EDL1-40/221-25/2.1-80	40	ER25	yes	right	80	62	72	53	72	71	-	36	75	50	6000	1:1	20
EDL1-40/221-32/1.1-80	40	ER32	no	right	80	59	75	53	72	71	-	36	75	50	6000	1:1	-
EDL1-40/221-32/2.1-80	40	ER32	yes	right	80	62	75	53	72	71	-	36	75	50	6000	1:1	20
EDL1-40/221-25/1.2-80	40	ER25	no	left	80	59	72	53	72	71	-	36	75	50	6000	1:1	-
EDL1-40/221-25/2.2-80	40	ER25	yes	left	80	62	72	53	72	71	-	36	75	50	6000	1:1	20
EDL1-40/221-32/1.2-80	40	ER32	no	left	80	59	75	53	72	71	-	36	75	50	6000	1:1	-
EDL1-40/221-32/2.2-80	40	ER32	yes	left	80	62	75	53	72	71	-	36	75	50	6000	1:1	20
EDL1-40/221-25/1.2-100D	40	ER25	no	left	100	59	72	53	72	-	48	36	75	50	6000	1:1	-
EDL1-40/221-25/2.2-100D	40	ER25	yes	left	100	62	72	53	72	-	48	36	75	50	6000	1:1	20
EDL1-40/221-32/1.2-100D	40	ER32	no	left	100	59	75	53	72	-	48	36	75	50	6000	1:1	-
EDL1-40/221-32/2.2-100D	40	ER32	yes	left	100	62	75	53	72	-	48	36	75	50	6000	1:1	20
EDL1-40/221-25/1.2-100	40	ER25	no	left	100	59	72	53	72	-	48	36	75	50	6000	1:1	-
EDL1-40/221-25/2.2-100	40	ER25	yes	left	100	62	72	53	72	-	48	36	75	50	6000	1:1	20
EDL1-40/221-32/1.2-100	40	ER32	no	left	100	59	75	53	72	-	48	36	75	50	6000	1:1	-
EDL1-40/221-32/2.2-100	40	ER32	yes	left	100	62	75	53	72	-	48	36	75	50	6000	1:1	20

DUPLOMATIC TURRET DIN 1809



Offset angular drilling and milling head

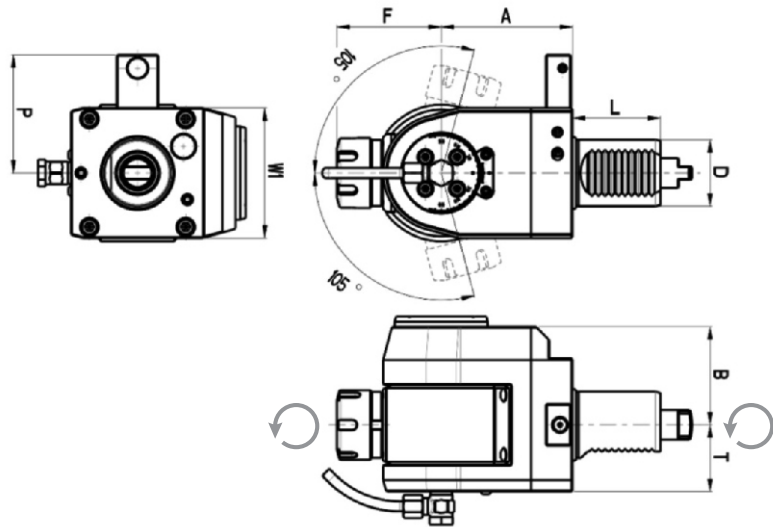
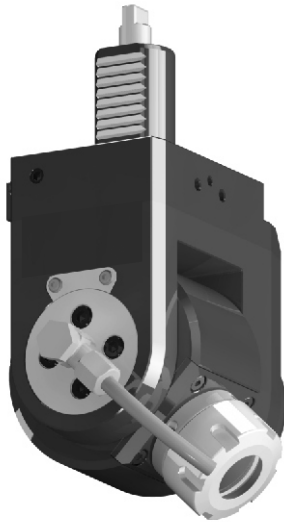


Code	D	Tool grip	IC	Direction	A	B	F	L	P	T	W	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL1-30/421-25/1.1-75	30	ER25	no	right	75	71	40	45	48	29	64	28	6000	1:1	-
EDL1-30/421-25/2.1-75	30	ER25	yes	right	75	74	40	45	48	29	64	28	6000	1:1	20
EDL1-30/421-25/1.2-75B	30	ER25	no	left	75	71	40	45	48	29	64	28	6000	1:1	-
EDL1-30/421-25/2.2-75B	30	ER25	yes	left	75	74	40	45	48	29	64	28	6000	1:1	20
EDL1-40/421-25/1.1-120	40	ER25	no	right	120	92	37	53	71	36	75	50	6000	1:1	-
EDL1-40/421-25/2.1-120	40	ER25	yes	right	120	95	37	53	71	36	75	50	6000	1:1	20
EDL1-40/421-32/1.1-120	40	ER32	no	right	120	92	41	53	71	36	75	50	6000	1:1	-
EDL1-40/421-32/2.1-120	40	ER32	yes	right	120	95	41	53	71	36	75	50	6000	1:1	20

DUPLOMATIC TURRET DIN 1809



Variable angle drilling and milling head



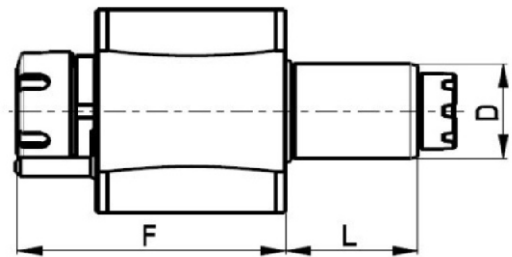
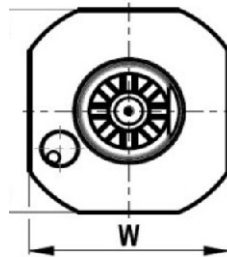
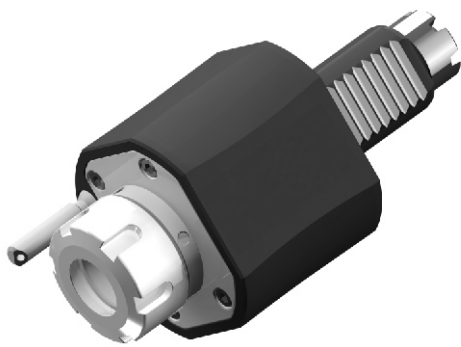
Code	D	Tool grip	IC	Direction	A	B	F	L	P	T	W1	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL1-30/521-16/1	30	ER16	no	right/left	79	59	43	45	48	40	64	16	6000	1:1	-
EDL1-30/521-16/2	30	ER16	yes	right/left	86	59	43	45	48	40	64	16	6000	1:1	20
EDL1-30/521-25/1	30	ER25	no	right/left	79	59	43	45	48	40	64	16	6000	1:1	-
EDL1-30/521-25/2	30	ER25	yes	right/left	86	59	43	45	48	40	64	16	6000	1:1	20
EDL1-30/521-16/1B	30	ER16	no	right/left	79	59	64	55	48	40	64	16	6000	1:1	-
EDL1-30/521-16/2B	30	ER16	yes	right/left	86	59	64	55	48	40	64	16	6000	1:1	20
EDL1-30/521-25/1B	30	ER25	no	right/left	79	59	64	55	48	40	64	16	6000	1:1	-
EDL1-30/521-25/2B	30	ER25	yes	right/left	86	59	64	55	48	40	64	16	6000	1:1	20
EDL1-40/521-25/1	40	ER25	no	right/left	79	59	64	53	71	40	78	16	6000	1:1	-
EDL1-40/521-25/2	40	ER25	yes	right/left	86	59	64	53	71	40	78	16	6000	1:1	20

* The straight, angular and variable toolholders can be equipped with Weldon shaft or shell-mill shaft upon request.

BARUFFALDI / TOEM TURRET



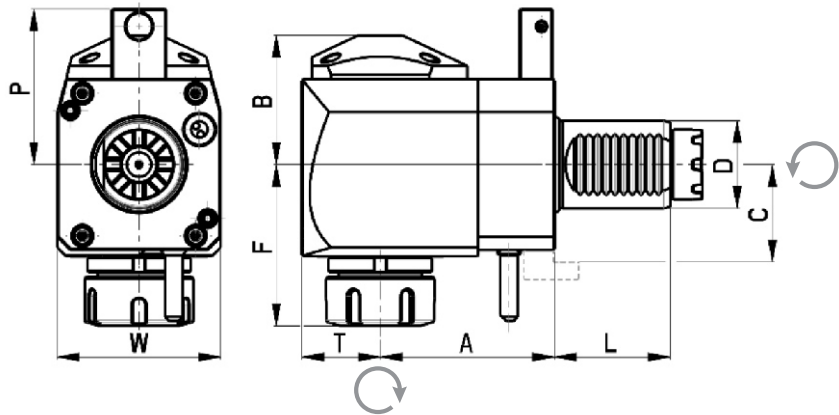
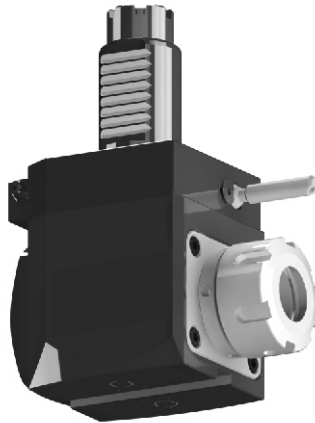
Straight drilling and milling head



Code	D	Tool grip	IC	F	L	W	W1	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL1-30/141-25/1	30	ER25	no	89	45	64	68	28	6000	1:1	-
EDL1-30/141-25/2	30	ER25	yes	89	45	64	68	28	6000	1:1	20
EDL1-40/141-25/1	40	ER25	no	105	53	80	86	50	6000	1:1	-
EDL1-40/141-25/2	40	ER25	yes	105	53	80	86	50	6000	1:1	20
EDL1-40/141-32/1	40	ER32	no	108	53	80	86	50	6000	1:1	-
EDL1-40/141-32/2	40	ER32	yes	108	53	80	86	50	6000	1:1	20

BARUFFALDI / TOEM TURRET

Angular drilling and milling head

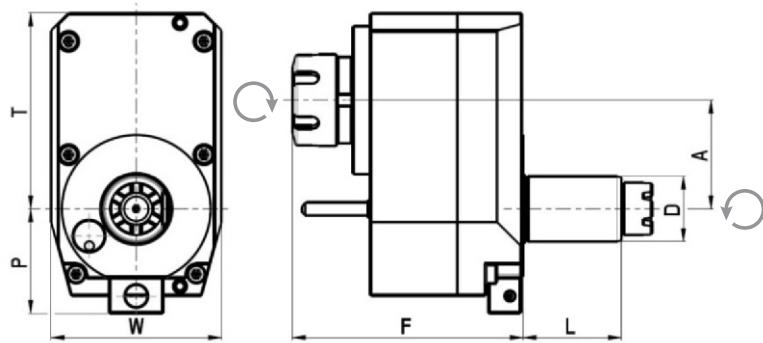
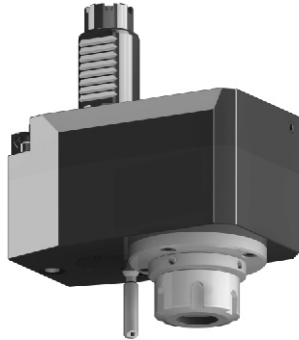


Code	D	Tool grip	IC	Direction	A	B	F	L	P	C	T	W	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL1-30/241-25/1.1-55	30	ER25	no	right	55	48	64	45	48	-	29	64	28	6000	1:1	-
EDL1-30/241-25/2.1-55	30	ER25	yes	right	55	51	64	45	48	-	29	64	28	6000	1:1	20
EDL1-30/241-25/1.1-85	30	ER25	no	right	85	48	64	45	48	-	29	64	28	6000	1:1	-
EDL1-30/241-25/2.1-85	30	ER25	yes	right	85	51	64	45	48	-	29	64	28	6000	1:1	20
EDL1-30/241-25/1.2-55	30	ER25	no	left	55	48	64	45	48	-	29	64	28	6000	1:1	-
EDL1-30/241-25/2.2-55	30	ER25	yes	left	55	51	64	45	48	-	29	64	28	6000	1:1	20
EDL1-30/241-25/1.2-85	30	ER25	no	left	85	48	64	45	48	-	29	64	28	6000	1:1	-
EDL1-30/241-25/2.2-85	30	ER25	yes	left	85	51	64	45	48	-	29	64	28	6000	1:1	20
EDL1-40/241-25/1.1-80	40	ER25	no	right	80	59	70	53	71	-	36	75	50	6000	1:1	-
EDL1-40/241-25/2.1-80	40	ER25	yes	right	80	62	70	53	71	-	36	75	50	6000	1:1	20
EDL1-40/241-32/1.1-80	40	ER32	no	right	80	59	74	53	71	-	36	75	50	6000	1:1	-
EDL1-40/241-32/2.1-80	40	ER32	yes	right	80	62	74	53	71	-	36	75	50	6000	1:1	20
EDL1-40/241-25/1.2-80	40	ER25	no	left	80	59	70	53	71	-	36	75	50	6000	1:1	-
EDL1-40/241-25/2.2-80	40	ER25	yes	left	80	62	70	53	71	-	36	75	50	6000	1:1	20
EDL1-40/241-32/1.2-80	40	ER32	no	left	80	59	74	53	71	-	36	75	50	6000	1:1	-
EDL1-40/241-32/2.2-80	40	ER32	yes	left	80	62	74	53	71	-	36	75	50	6000	1:1	20
EDL1-40/241-25/1.2-80D	40	ER25	no	left	80	59	70	53	-	42,5	36	75	50	6000	1:1	-
EDL1-40/241-25/2.2-80D	40	ER25	yes	left	80	62	70	53	-	42,5	36	75	50	6000	1:1	20
EDL1-40/241-32/1.2-80D	40	ER32	no	left	80	59	74	53	-	42,5	36	75	50	6000	1:1	-
EDL1-40/241-32/2.2-80D	40	ER32	yes	left	80	62	74	53	-	42,5	36	75	50	6000	1:1	20

BARUFFALDI / TOEM TURRET

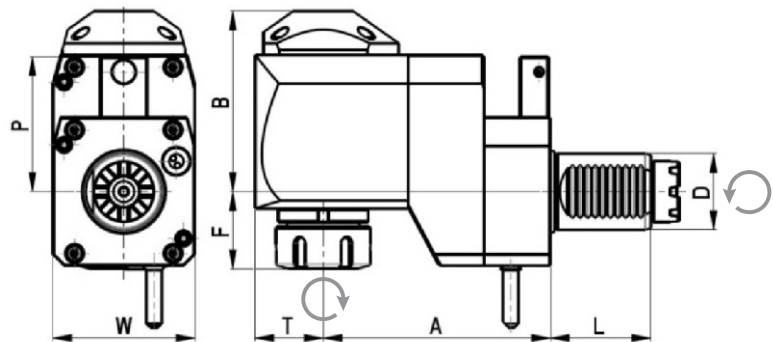
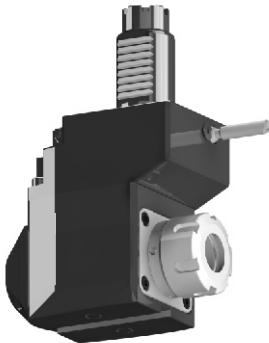


Offset straight drilling and milling head



Code	D	Tool grip	Internal Cooling	Direction	A	F	L	P	T	W	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL1-30/341-25/1.1-50(1:2)	30	ER25	no	right	50	106	45	48	90	78	14	12000	1:2	-
EDL1-30/341-25/1.1-50(2:1)	30	ER25	no	right	50	106	45	48	90	78	40	3000	2:1	-

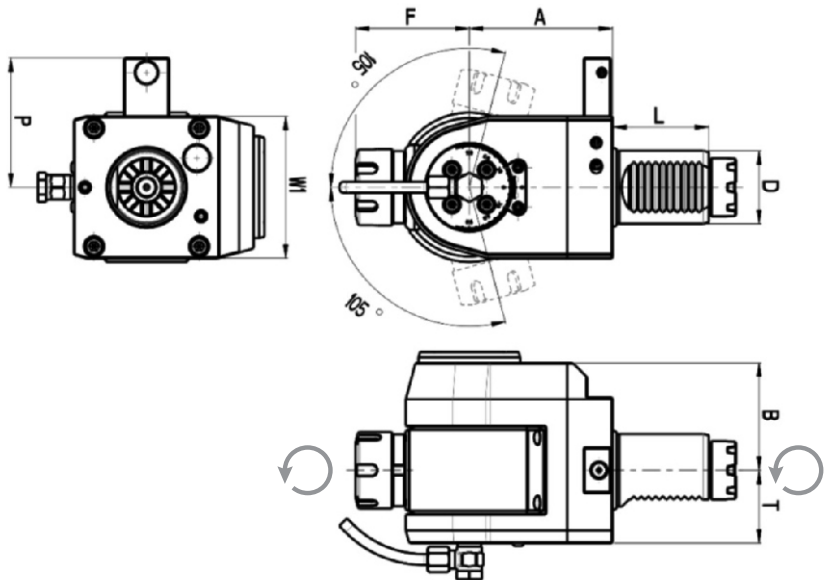
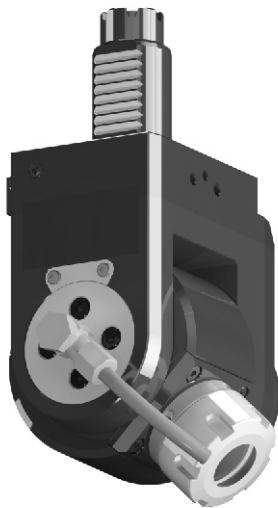
Offset angular drilling and milling head



Code	D	Tool grip	IC	Direction	A	B	F	L	P	T	W	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL1-30/441-25/1.1-75	30	ER25	no	right	75	71	40	45	48	29	64	28	6000	1:1	-
EDL1-30/441-25/2.1-75	30	ER25	yes	right	75	74	40	45	48	29	64	28	6000	1:1	20
EDL1-40/441-25/1.1-120	40	ER25	no	right	120	92	37	53	71	36	75	50	6000	1:1	-
EDL1-40/441-25/2.1-120	40	ER25	yes	right	120	95	37	53	71	36	75	50	6000	1:1	20
EDL1-40/441-25/1.2-120	40	ER25	no	left	120	92	37	53	71	36	75	50	6000	1:1	-
EDL1-40/441-25/2.2-120	40	ER25	yes	left	120	95	37	53	71	36	75	50	6000	1:1	20
EDL1-40/441-32/1.1-120	40	ER32	no	right	120	92	41	53	71	36	75	50	6000	1:1	-
EDL1-40/441-32/2.1-120	40	ER32	yes	right	120	95	41	53	71	36	75	50	6000	1:1	20
EDL1-40/441-32/1.2-120	40	ER32	no	left	120	92	41	53	71	36	75	50	6000	1:1	-
EDL1-40/441-32/2.2-120	40	ER32	yes	left	120	95	41	53	71	36	75	50	6000	1:1	20

BARUFFALDI / TOEM TURRET

Variable angle drilling and milling head

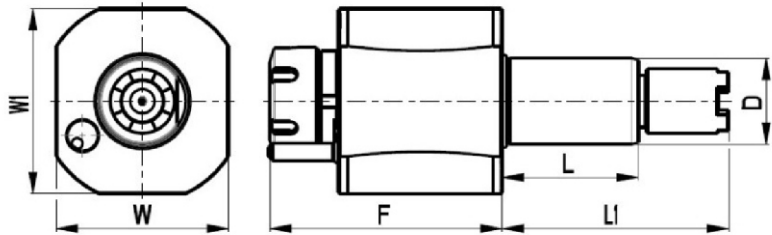
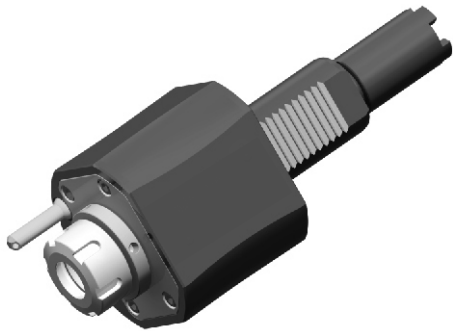


Code	D	Tool grip	IC	Direction	A	B	F	L	P	T	W1	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL1-30/541-16/1	30	ER16	no	right/left	79	59	43	45	48	40	64	16	6000	1:1	-
EDL1-30/541-16/2	30	ER16	yes	right/left	86	59	43	45	48	40	64	16	6000	1:1	20
EDL1-30/541-25/1	30	Er25	no	right/left	79	59	43	45	48	40	64	16	6000	1:1	-
EDL1-30/541-25/2	30	Er25	yes	right/left	86	59	43	45	48	40	64	16	6000	1:1	20
EDL1-40/541-25/1	40	ER25	no	right/left	79	59	64	53	71	40	78	16	6000	1:1	-
EDL1-40/541-25/2	40	ER25	yes	right/left	86	59	64	53	71	40	78	16	6000	1:1	20

* The straight, angular and variable toolholders can be equipped with Weldon shaft or shell-mill shaft upon request.

HAAS TURRET

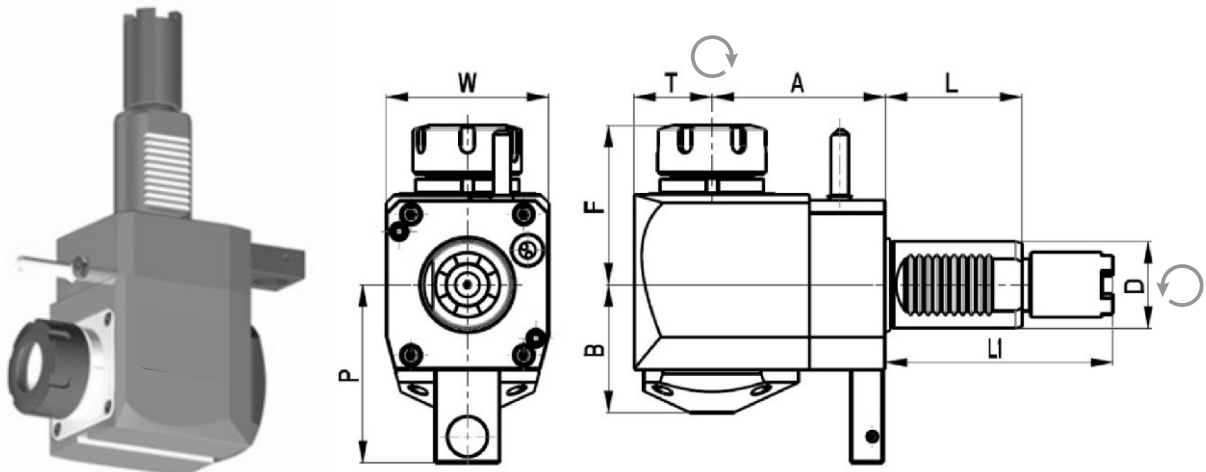
Straight drilling and milling head



Code	D	Tool grip	IC	F	L	L1	W	W1	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL1-40/151-25/1A	40	ER25	no	106	64	104.85	80	86	50	6000	1:1	-
EDL1-40/151-25/2A	40	ER25	yes	106	64	104.85	80	86	50	6000	1:1	20
EDL1-40/151-32/1A	40	ER32	no	109	64	104.85	80	86	50	6000	1:1	-
EDL1-40/151-32/2A	40	ER32	yes	109	64	104.85	80	86	50	6000	1:1	20
EDL1-40/151-25/1B	40	ER25	no	106	64	117.55	80	86	50	6000	1:1	-
EDL1-40/151-25/2B	40	ER25	yes	106	64	117.55	80	86	50	6000	1:1	20
EDL1-40/151-32/1B	40	ER32	no	109	64	117.55	80	86	50	6000	1:1	-
EDL1-40/151-32/2B	40	ER32	yes	109	64	117.55	80	86	50	6000	1:1	20
EDL1-40/151-25/1C	40	ER25	no	106	64	130.25	80	86	50	6000	1:1	-
EDL1-40/151-25/2C	40	ER25	yes	106	64	130.25	80	86	50	6000	1:1	20
EDL1-40/151-32/1C	40	ER32	no	109	64	130.25	80	86	50	6000	1:1	-
EDL1-40/151-32/2C	40	ER32	yes	109	64	130.25	80	86	50	6000	1:1	20

HAAS TURRET

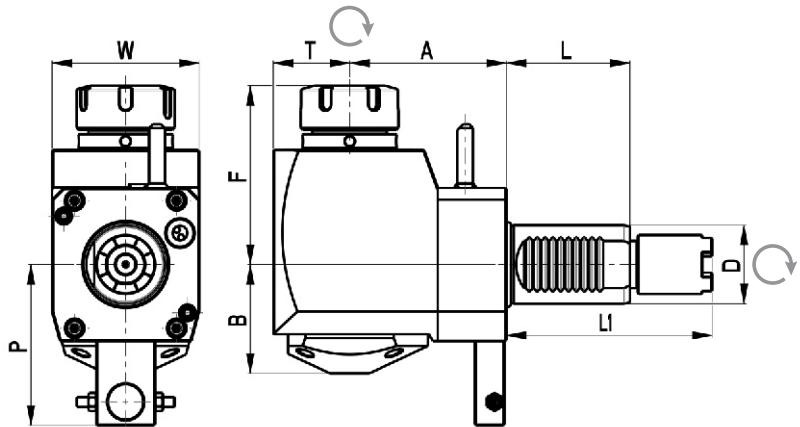
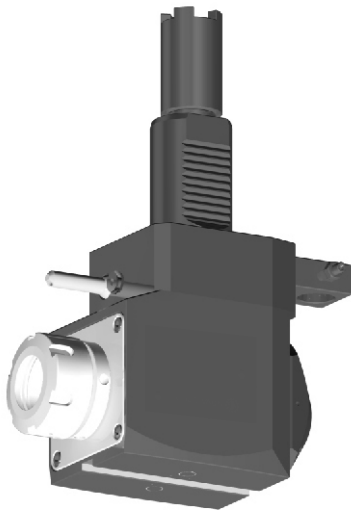
Angular drilling and milling head



Code	D	Tool grip	IC	Direction	A	B	F	L	L1	P	T	W	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL1-40/251-25/1.2-80A	40	ER25	no	left	80	59	72	64	104.85	82	36	75	50	6000	1:1	-
EDL1-40/251-25/2.2-80A	40	ER25	yes	left	80	62	72	64	104.85	82	36	75	50	6000	1:1	20
EDL1-40/251-32/1.2-80A	40	ER32	no	left	80	59	75	64	104.85	82	36	75	50	6000	1:1	-
EDL1-40/251-32/2.2-80A	40	ER32	yes	left	80	62	75	64	104.85	82	36	75	50	6000	1:1	20
EDL1-40/251-25/1.2-80B	40	ER25	no	left	80	59	72	64	117.55	82	36	75	50	6000	1:1	-
EDL1-40/251-25/2.2-80B	40	ER25	yes	left	80	62	72	64	117.55	82	36	75	50	6000	1:1	20
EDL1-40/251-32/1.2-80B	40	ER32	no	left	80	59	75	64	117.55	82	36	75	50	6000	1:1	-
EDL1-40/251-32/2.2-80B	40	ER32	yes	left	80	62	75	64	117.55	82	36	75	50	6000	1:1	20
EDL1-40/251-25/1.2-80C	40	ER25	no	left	80	59	72	64	130.25	82	36	75	50	6000	1:1	-
EDL1-40/251-25/2.2-80C	40	ER25	yes	left	80	62	72	64	130.25	82	36	75	50	6000	1:1	20
EDL1-40/251-32/1.2-80C	40	ER32	no	left	80	59	75	64	130.25	82	36	75	50	6000	1:1	-
EDL1-40/251-32/2.2-80C	40	ER32	yes	left	80	62	75	64	130.25	82	36	75	50	6000	1:1	20
EDL1-40/251-25/1.2-69A	40	ER25	no	left	69	59	72	64	104.85	82	36	75	50	6000	1:1	-
EDL1-40/251-25/2.2-69A	40	ER25	yes	left	69	62	72	64	104.85	82	36	75	50	6000	1:1	20
EDL1-40/251-32/1.2-69A	40	ER32	no	left	69	59	75	64	104.85	82	36	75	50	6000	1:1	-
EDL1-40/251-32/2.2-69A	40	ER32	yes	left	69	62	75	64	104.85	82	36	75	50	6000	1:1	20
EDL1-40/251-25/1.2-69B	40	ER25	no	left	69	59	72	64	117.55	82	36	75	50	6000	1:1	-
EDL1-40/251-25/2.2-69B	40	ER25	yes	left	69	62	72	64	117.55	82	36	75	50	6000	1:1	20
EDL1-40/251-32/1.2-69B	40	ER32	no	left	69	59	75	64	117.55	82	36	75	50	6000	1:1	-
EDL1-40/251-32/2.2-69B	40	ER32	yes	left	69	62	75	64	117.55	82	36	75	50	6000	1:1	20
EDL1-40/251-25/1.2-69C	40	ER25	no	left	69	59	72	64	130.25	82	36	75	50	6000	1:1	-
EDL1-40/251-25/2.2-69C	40	ER25	yes	left	69	62	72	64	130.25	82	36	75	50	6000	1:1	20
EDL1-40/251-32/1.2-69C	40	ER32	no	left	69	59	75	64	130.25	82	36	75	50	6000	1:1	-
EDL1-40/251-32/2.2-69C	40	ER32	yes	left	69	62	75	64	130.25	82	36	75	50	6000	1:1	20

HAAS TURRET

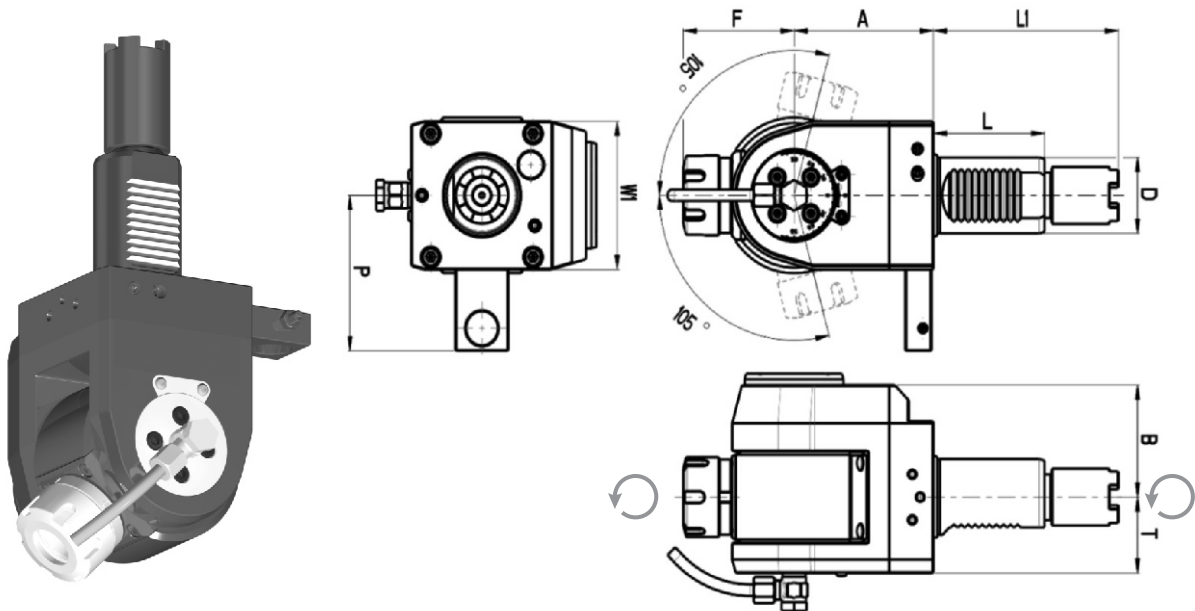
Angular drilling and milling head - SAME DIRECTION



Code	D	Tool	IC	Direction	A	B	F	L	L1	P	T	W	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL1-40/251-32/1.2-69AS	40	ER32	no	left	69	56	91	64	104.85	82	36	75	50	6000	1:1	-
EDL1-40/251-32/2.2-69AS	40	ER32	yes	left	69	56	91	64	104.85	82	36	75	50	6000	1:1	20
EDL1-40/251-32/1.2-69BS	40	ER32	no	left	69	56	91	64	117.55	82	36	75	50	6000	1:1	-
EDL1-40/251-32/2.2-69BS	40	ER32	yes	left	69	56	91	64	117.55	82	36	75	50	6000	1:1	20
EDL1-40/251-32/1.2-69CS	40	ER32	no	left	69	56	91	64	130.25	82	36	75	50	6000	1:1	-
EDL1-40/251-32/2.2-69CS	40	ER32	yes	left	69	56	91	64	130.25	82	36	75	50	6000	1:1	20
EDL1-40/251-32/1.2-80AS	40	ER32	no	left	80	56	91	64	104.85	82	36	75	50	6000	1:1	-
EDL1-40/251-32/2.2-80AS	40	ER32	yes	left	80	56	91	64	104.85	82	36	75	50	6000	1:1	20
EDL1-40/251-32/1.2-80BS	40	ER32	no	left	80	56	91	64	117.55	82	36	75	50	6000	1:1	-
EDL1-40/251-32/2.2-80BS	40	ER32	yes	left	80	56	91	64	117.55	82	36	75	50	6000	1:1	20
EDL1-40/251-32/1.2-80CS	40	ER32	no	left	80	56	91	64	130.25	82	36	75	50	6000	1:1	-
EDL1-40/251-32/2.2-80CS	40	ER32	yes	left	80	56	91	64	130.25	82	36	75	50	6000	1:1	20

HAAS TURRET

Variable angle drilling and milling head

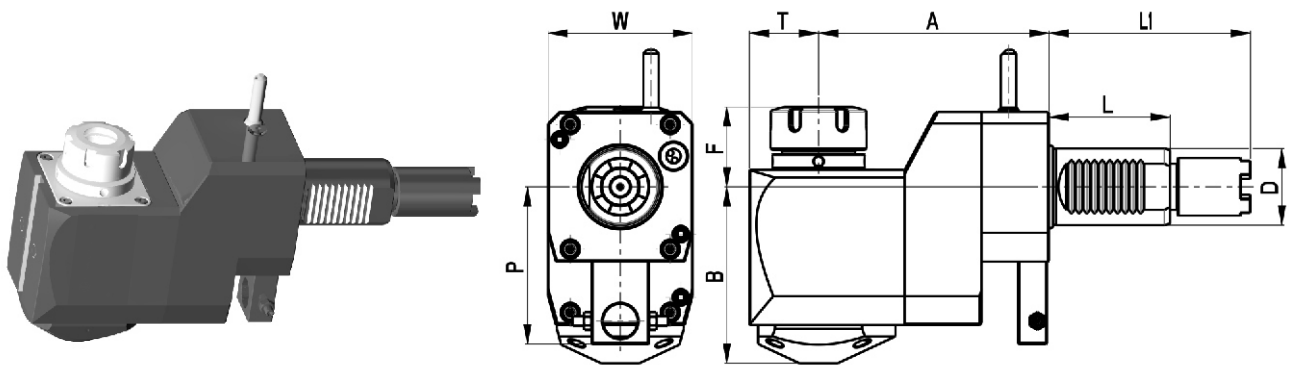


Code	D	Tool grip	IC	Direction	A	B	F	L	L1	P	T	W1	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL1-40/551-25.1A	40	ER25	no	right/left	79	59	64	64	104.85	82	40	78	16	6000	1:1	-
EDL1-40/551-25.1A	40	ER25	yes	right/left	86	59	64	64	104.85	82	40	78	16	6000	1:1	20
EDL1-40/551-25.1B	40	ER25	no	right/left	79	59	64	64	117.55	82	40	78	16	6000	1:1	-
EDL1-40/551-25.2B	40	ER25	yes	right/left	86	59	64	64	117.55	82	40	78	16	6000	1:1	20
EDL1-40/551-25.1C	40	ER25	no	right/left	79	59	64	64	130.25	82	40	78	16	6000	1:1	-
EDL1-40/551-25.2C	40	ER25	yes	right/left	86	59	64	64	130.25	82	40	78	16	6000	1:1	20

* The straight, angular and variable toolholders can be equipped with Weldon shaft or shell-mill shaft upon request.

HAAS TURRET

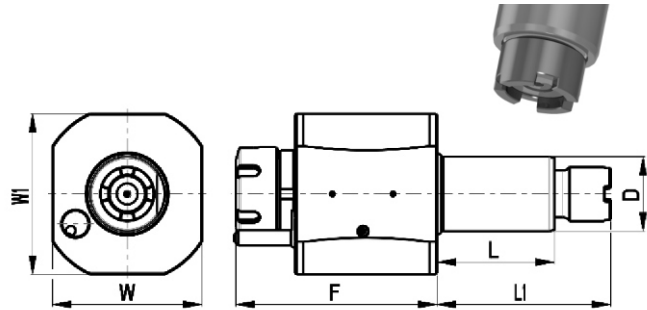
Offset angular drilling and milling head



Code	D	Tool grip	IC	Direction	A	B	F	L	L1	P	T	W	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL1-40/451-25/1.2-120A	40	ER25	no	left	120	92	39	63	104.85	82	36	75	50	6000	1:1	-
EDL1-40/451-25/2.2-120A	40	ER25	yes	left	120	95	39	63	104.85	82	36	75	50	6000	1:1	20
EDL1-40/451-32/1.2-120A	40	ER32	no	left	120	92	42	63	104.85	82	36	75	50	6000	1:1	-
EDL1-40/451-32/2.2-120A	40	ER32	yes	left	120	95	42	63	104.85	82	36	75	50	6000	1:1	20
EDL1-40/451-25/1.2-120B	40	ER25	no	left	120	92	39	63	117.55	82	36	75	50	6000	1:1	-
EDL1-40/451-25/2.2-120B	40	ER25	yes	left	120	95	39	63	117.55	82	36	75	50	6000	1:1	20
EDL1-40/451-32/1.2-120B	40	ER32	no	left	120	92	42	63	117.55	82	36	75	50	6000	1:1	-
EDL1-40/451-32/2.2-120B	40	ER32	yes	left	120	95	42	63	117.55	82	36	75	50	6000	1:1	20
EDL1-40/451-25/1.2-120C	40	ER25	no	left	120	92	39	63	130.25	82	36	75	50	6000	1:1	-
EDL1-40/451-25/2.2-120C	40	ER25	yes	left	120	95	39	63	130.25	82	36	75	50	6000	1:1	20
EDL1-40/451-32/1.2-120C	40	ER32	no	left	120	92	42	63	130.25	82	36	75	50	6000	1:1	-
EDL1-40/451-32/2.2-120C	40	ER32	yes	left	120	95	42	63	130.25	82	36	75	50	6000	1:1	20

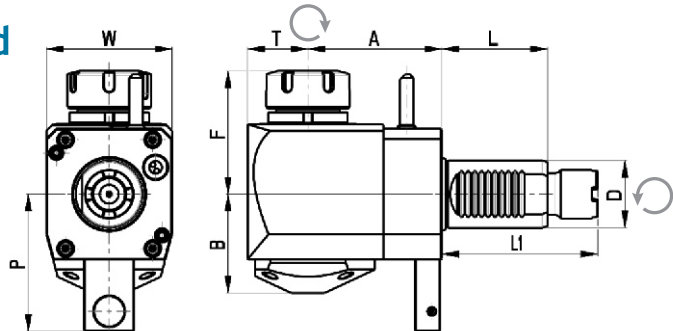
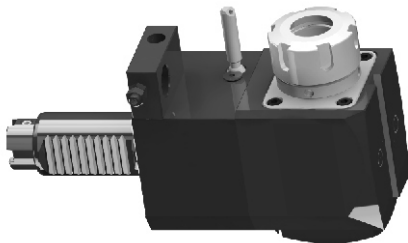
OKUMA

Straight drilling and milling head



Code	D	Tool grip	IC	F	L	L1	W	W1	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL1-30/151-25/1JA	30	ER25	no	89	55	69	64	68	28	6000	1:1	-
EDL1-30/151-25/2JA	30	ER25	yes	89	55	69	64	68	28	6000	1:1	20
EDL1-40/151-25/1JA	40	ER25	no	105	64	93	80	86	50	6000	1:1	-
EDL1-40/151-25/2JA	40	ER25	yes	105	64	93	80	86	50	6000	1:1	20
EDL1-40/151-32/1JA	40	ER32	no	108	64	93	80	86	50	6000	1:1	-
EDL1-40/151-32/2JA	40	ER32	yes	108	64	93	80	86	50	6000	1:1	20
EDL1-40/151-25/1JB	40	ER25	no	105	64	101	80	86	50	6000	1:1	-
EDL1-40/151-25/2JB	40	ER25	yes	105	64	101	80	86	50	6000	1:1	20
EDL1-40/151-32/1JB	40	ER32	no	108	64	101	80	86	50	6000	1:1	-
EDL1-40/151-32/2JB	40	ER32	yes	108	64	101	80	86	50	6000	1:1	20

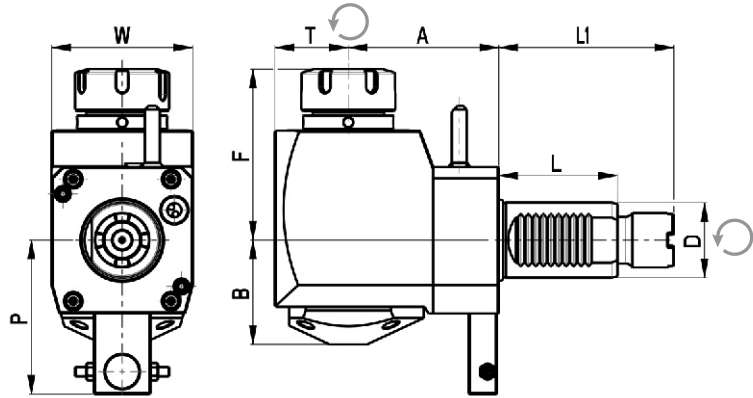
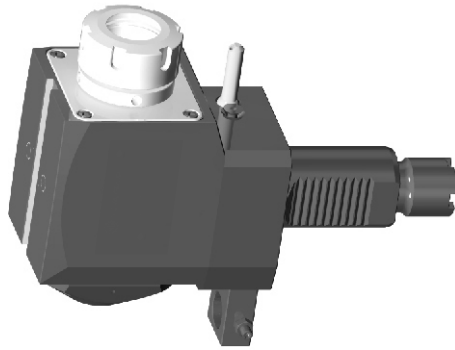
Angular drilling and milling head



Code	D	Tool grip	IC	Direction	A	B	F	L	L1	P	T	W	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL1-30/251-25/1.1-85JA	30	ER25	no	right	85	48	64	55	69	-	29	64	28	6000	1:1	-
EDL1-30/251-25/2.1-85JA	30	ER25	yes	right	85	51	64	55	69	-	29	64	28	6000	1:1	20
EDL1-30/251-25/2.2-55JB	30	ER25	no	left	55	48	64	55	69	72	29	64	28	6000	1:1	-
EDL1-30/251-25/2.2-55JB	30	ER25	yes	left	55	51	64	55	69	72	29	64	28	6000	1:1	20
EDL1-40/251-25/1.2-80JA	40	ER25	no	left	80	59	70	64	93	82	36	75	50	6000	1:1	-
EDL1-40/251-25/2.2-80JA	40	ER25	yes	left	80	62	70	64	93	82	36	75	50	6000	1:1	20
EDL1-40/251-32/1.2-80JA	40	ER32	no	left	80	59	74	64	93	82	36	75	50	6000	1:1	-
EDL1-40/251-32/2.2-80JA	40	ER32	yes	left	80	62	74	64	93	82	36	75	50	6000	1:1	20
EDL1-40/251-25/1.2-80JB	40	ER25	no	left	80	59	70	64	101	82	36	75	50	6000	1:1	-
EDL1-40/251-25/2.2-80JB	40	ER25	yes	left	80	62	70	64	101	82	36	75	50	6000	1:1	20
EDL1-40/251-32/1.2-80JB	40	ER32	no	left	80	59	74	64	101	82	36	75	50	6000	1:1	-
EDL1-40/251-32/2.2-80JB	40	ER32	yes	left	80	62	74	64	101	82	36	75	50	6000	1:1	20
EDL1-40/251-25/1.1-80JD	40	ER25	no	right	80	59	70	64	93	-	36	75	50	6000	1:1	-
EDL1-40/251-25/2.1-80JD	40	ER25	yes	right	80	62	70	64	93	-	36	75	50	6000	1:1	20
EDL1-40/251-32/1.1-80JD	40	ER32	no	right	80	59	74	64	93	-	36	75	50	6000	1:1	-
EDL1-40/251-32/2.1-80JD	40	ER32	yes	right	80	62	74	64	93	-	36	75	50	6000	1:1	20

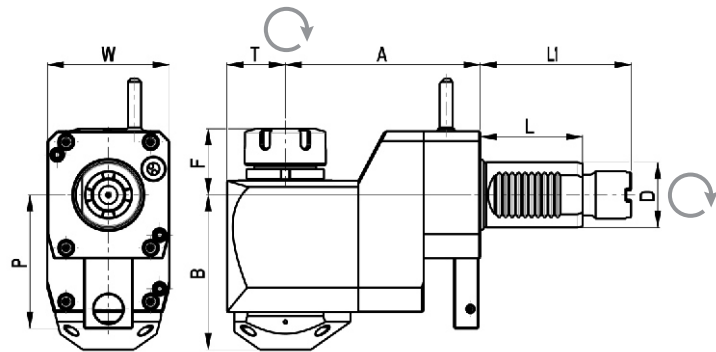
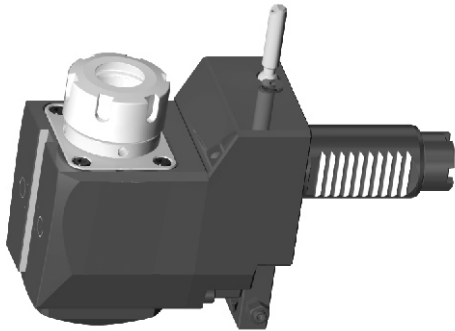
OKUMA

Angular drilling and milling head - SAME DIRECTION



Code	D	Tool grip	IC	Direction	A	B	F	L	L1	P	T	W	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL1-40/251-32/1.2-80JAS	40	ER32	no	left	80	56	91	63	93	82	36	75	50	6000	1:1	-
EDL1-40/251-32/2.2-80JAS	40	ER32	yes	left	80	56	91	63	93	82	36	75	50	6000	1:1	-

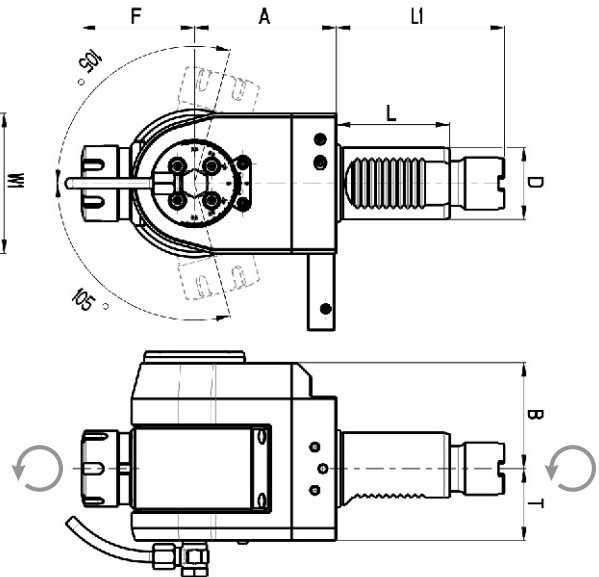
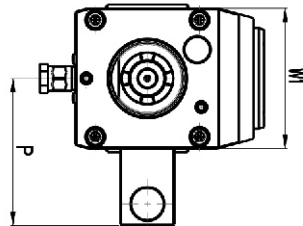
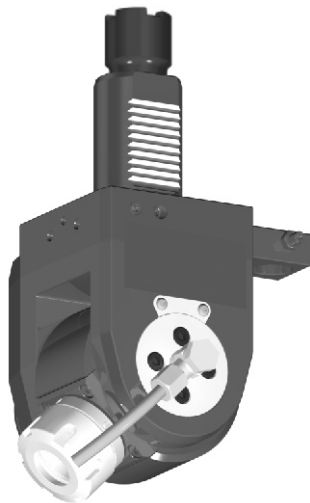
Offset angular drilling and milling head



Code	D	Tool grip	IC	Direction	A	B	F	L	L1	P	T	W	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL1-30/451-25/1.2-75JB	30	ER25	no	left	75	71	40	55	69	72	29	64	28	6000	1:1	-
EDL1-30/451-25/2.2-75JB	30	ER25	yes	left	75	74	40	55	69	72	29	64	28	6000	1:1	20
EDL1-40/451-25/1.2-120JA	40	ER25	no	left	120	92	37	64	93	82	36	75	50	6000	1:1	-
EDL1-40/451-25/2.2-120JA	40	ER25	yes	left	120	95	37	64	93	82	36	75	50	6000	1:1	20
EDL1-40/451-32/1.2-120JA	40	ER32	no	left	120	92	41	64	93	82	36	75	50	6000	1:1	-
EDL1-40/451-32/2.2-120JA	40	ER32	yes	left	120	95	41	64	93	82	36	75	50	6000	1:1	20
EDL1-40/451-25/1.2-120JB	40	ER25	no	left	120	92	37	64	101	82	36	75	50	6000	1:1	-
EDL1-40/451-25/2.2-120JB	40	ER25	yes	left	120	95	37	64	101	82	36	75	50	6000	1:1	20
EDL1-40/451-32/1.2-120JB	40	ER32	no	left	120	92	41	64	101	82	36	75	50	6000	1:1	-
EDL1-40/451-32/2.2-120JB	40	ER32	yes	left	120	95	41	64	101	82	36	75	50	6000	1:1	20

OKUMA

Variable angular drilling and milling head



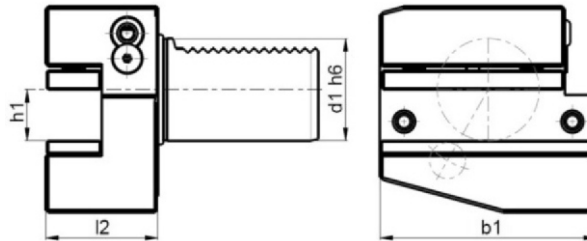
Code	D	Tool grip	IC	Direction	A	B	F	L	L1	P	T	W1	Torque [Nm]	Speed [rpm]	Ratio	P [bar]
EDL1-30/551-16.1JA	30	ER16	no	right/left	79	59	43	55	69	57	40	64	16	6000	1:1	-
EDL1-30/551-16.2JA	30	ER16	yes	right/left	86	59	43	55	69	57	40	64	16	6000	1:1	20
EDL1-40/551-25.1JA	40	ER25	no	right/left	79	59	64	64	93	82	40	78	16	6000	1:1	-
EDL1-40/551-25.2JA	40	ER25	yes	right/left	86	59	64	64	93	82	40	78	16	6000	1:1	20
EDL1-40/551-25.1JB	40	ER25	no	right/left	79	59	64	64	101	82	40	78	16	6000	1:1	-
EDL1-40/551-25.2JB	40	ER25	yes	right/left	86	59	64	64	101	82	40	78	16	6000	1:1	20

FIXED TOOLHOLDERS FOR CNC LATHES

DIN 69880

Radial holder, right hand, short

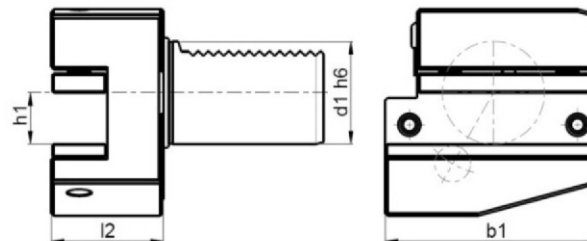
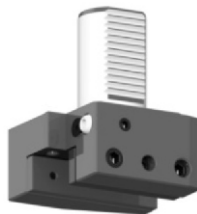
B1



Code	d1	h1	l2	b1
EDL B1-30X20X40	30	16/20	40	70
EDL B1-40X25X44	40	20/25	44	85

Radial holder, left hand, short

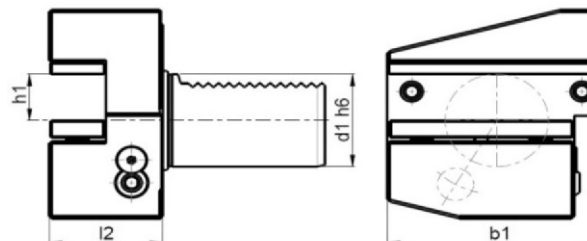
B2



Code	d1	h1	l2	b1
EDL B2-30X20X40	30	16/20	40	70
EDL B2-40X25X44	40	20/25	44	85

Radial holder, upside-down, right hand, short

B3

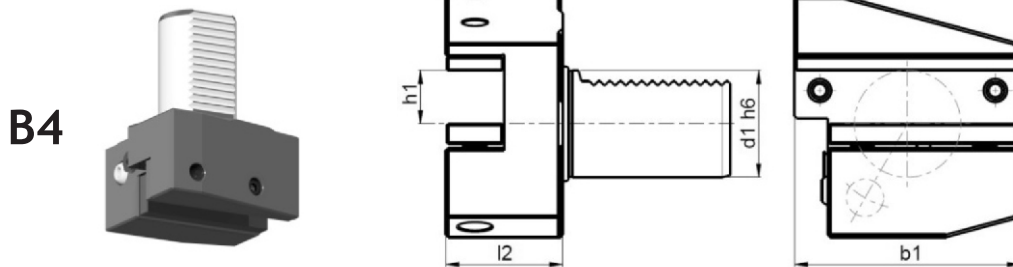


Code	d1	h1	l2	b1
EDL B3-30X20X40	30	16/20	40	70
EDL B3-40X25X44	40	20/25	44	85

FIXED TOOLHOLDERS FOR CNC LATHES

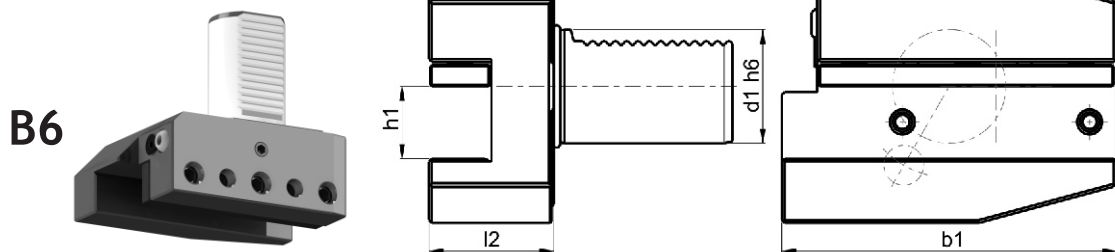
DIN 69880

Radial holder, upside-down, left hand, short



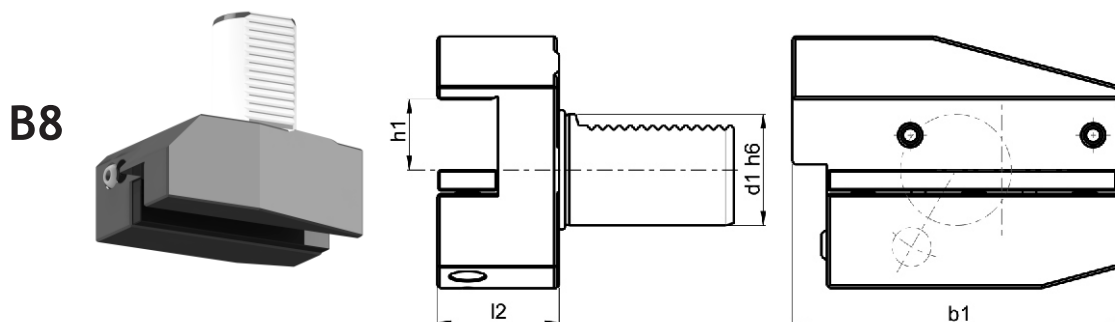
Code	d1	H1	l2	b1
EDL B4-30X20X40	30	16/20	40	70
EDL B4-40X25X44	40	20/25	44	85

Radial holder, left hand, long



Code	d1	h1	l2	b1
EDL B6-40X44	40	20	44	118

Radial holder, upside-down, left hand, long

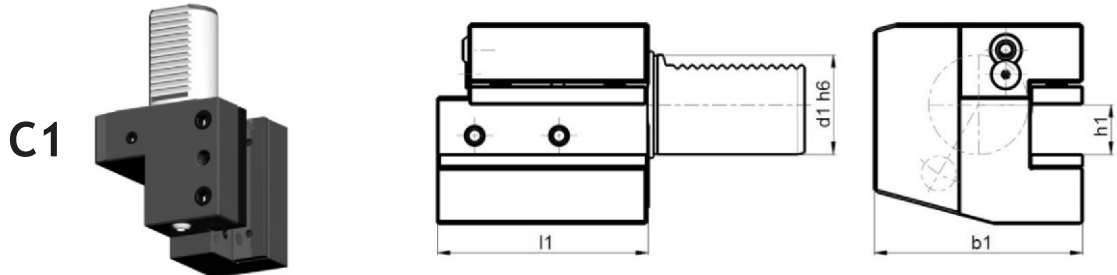


Code	d1	h1	l2	b1
EDL B8-40X44	40	20	44	118

FIXED TOOLHOLDERS FOR CNC LATHES

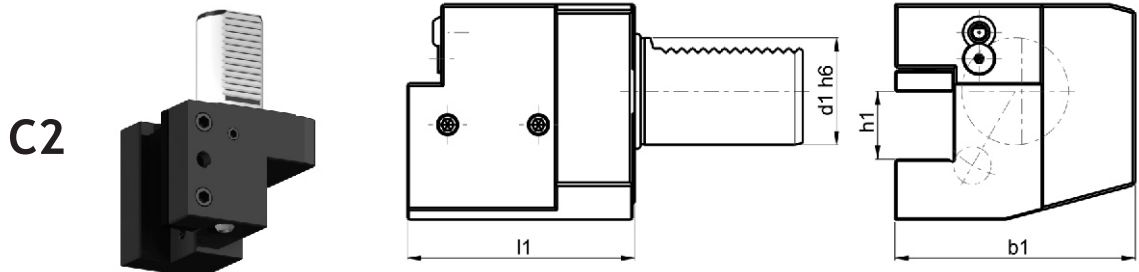
DIN 69880

Axial holder, right hand



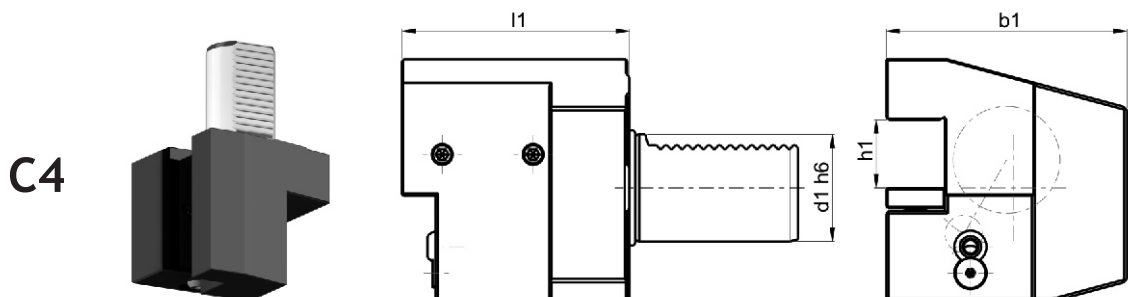
Code	d1	h1	l2	b1
EDL C1-30X20X70	30	16/20	70	70
EDL C1-40X25X85	40	20/25	85	85

Axial holder, left hand



Code	d1	h1	l2	b1
EDL C2-40X25X85	40	20	85	90

Axial holder, overhead left, short

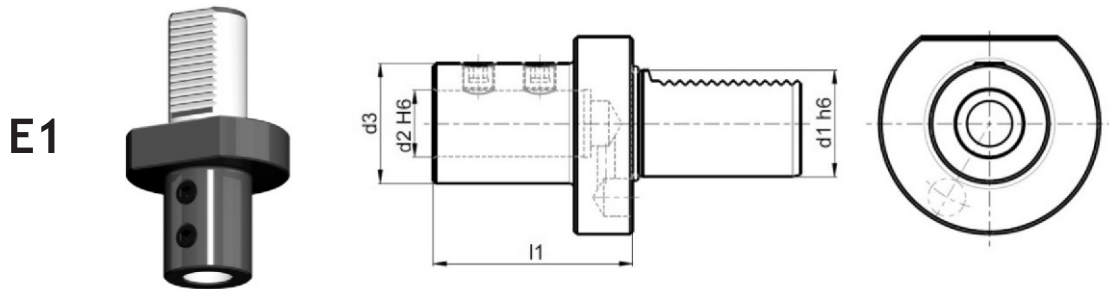


Code	d1	h1	l2	b1
EDL C4-40X85	40	20	85	90

FIXED TOOLHOLDERS FOR CNC LATHES

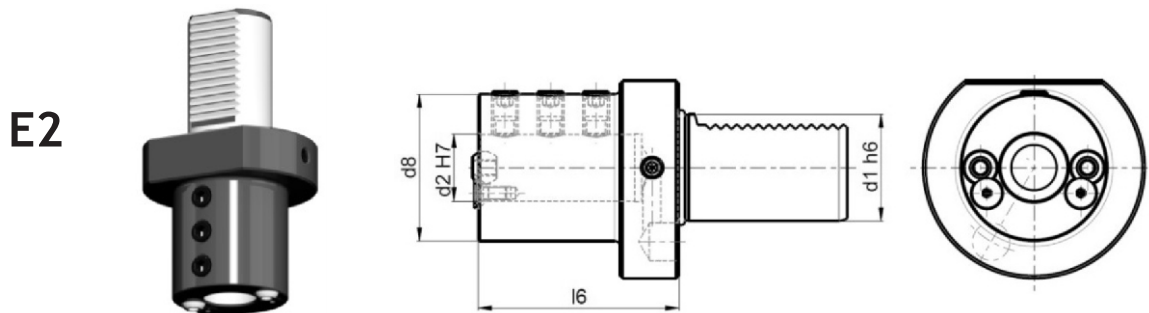
DIN 69880

Holder for indexable insert drills with internal coolant



Code	d1	d2	l2	d3
EDL E1-30X25	30	25	71	45
EDL E1-30X32	30	32	75	52
EDL E1-40X25	40	25	71	45
EDL E1-40X32	40	32	75	52
EDL E1-40X40	40	40	90	65

Boring bar holder with internal coolant



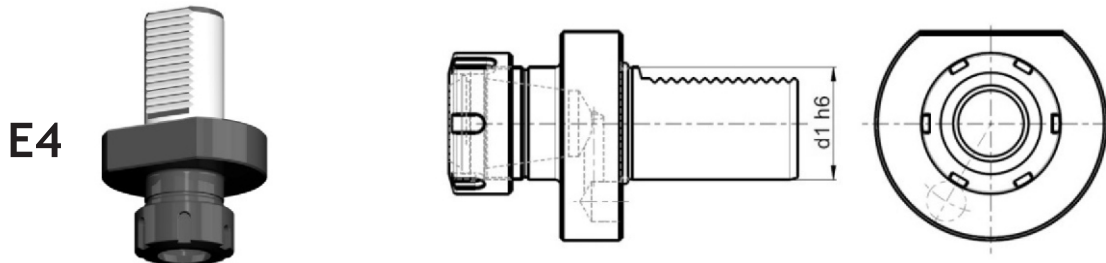
Code	d1	d2	l6	d8
EDL E2-30X10	30	10	60	55
EDL E2-30X12	30	12	60	55
EDL E2-30X16	30	16	60	55
EDL E2-30X20	30	20	60	55
EDL E2-30X25	30	25	60	55
EDL E2-30X30	30	30	60	55
EDL E2-30X32	30	32	75	68
EDL E2-40X9	40	9	75	55

Code	d1	d2	l6	d8
EDL E2-40X10	40	10	75	55
EDL E2-40X12	40	12	75	55
EDL E2-40X16	40	16	75	55
EDL E2-40X20	40	20	75	55
EDL E2-40X25	40	25	75	55
EDL E2-40X30	40	30	75	55
EDL E2-40X32	40	32	75	83
EDL E2-40X40	40	40	90	83

FIXED TOOLHOLDERS FOR CNC LATHES

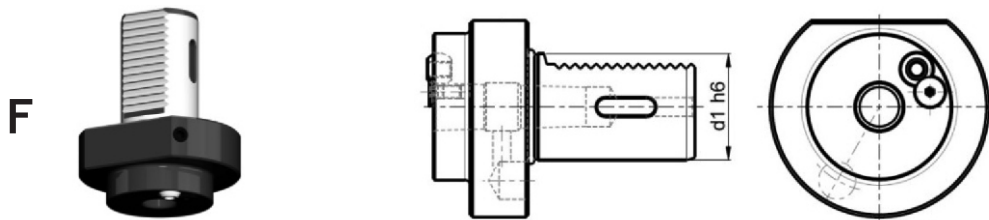
DIN 69880

Collet chuck for collets - ER type, with internal coolant



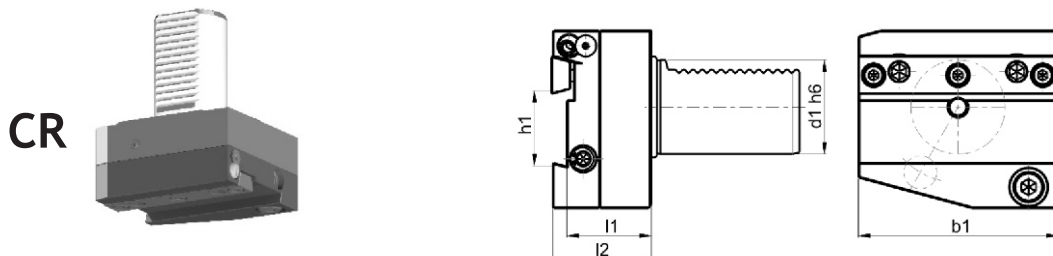
Code	d1	Tool grip
EDL E4-30X25	30	ER25
EDL E4-30X32	30	ER32
EDL E4-40X32	40	ER32
EDL E4-40X40	40	ER40

Morse taper holder, with internal coolant



Code	d1	Tool grip
EDL F40-MT2	40	2
EDL F40-MT3	40	3
EDL F40-MT4	40	4

Toolholder for cut off tools adjustable in height, right

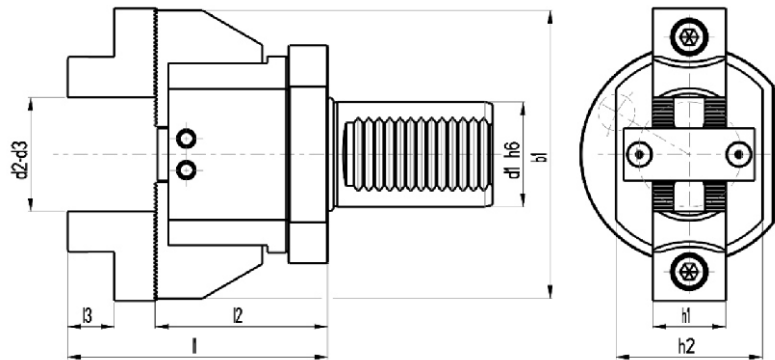
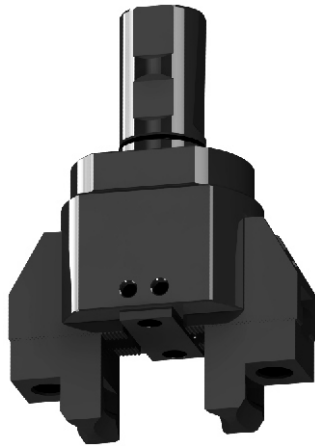


Code	d1	h1	l1	l2	B1
EDL CR-30X26	30	26	36	42	70
EDL CR-40X32	40	32	36	42	85

FIXED TOOLHOLDERS FOR CNC LATHES

DIN 69880

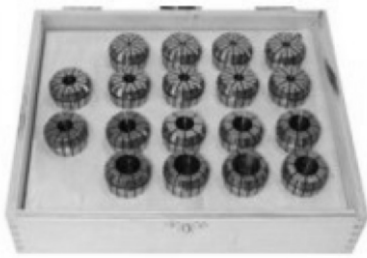
Bar puller



Code	d1	d2	d3	h1	h2	l1	l2	l3	b1
EDL BP-20	20	6-56	56-110	28	56	100	66	18	110
EDL BP-30	30	6-56	56-110	28	56	100	66	18	110
EDL BP-40	40	6-56	56-110	28	56	100	66	18	110
EDL BP-50	50	6-56	56-110	28	56	100	66	18	110
EDL BP-32	Weldon 32	6-56	56-110	28	56	100	66	18	110
EDL BP-40	Weldon 40	6-56	56-110	28	56	100	66	18	110

ACCESSORIES

Set of collets ER25-40 in wooden box



ER	Code	Range	Collets quantity
ER25	EDL ER25.KPL.15TUL	2-16	15
ER32	EDL ER32.KPL.18TUL	3-20	18
ER40	EDL ER40.KPL.23TUL	4-26	23

Wrenches for standard nut



Code	Description
EDL925CHVST	WRENCHES FOR ER 25 STANDARD
EDL932CHVST	WRENCHES FOR ER 32 STANDARD
EDL940CHVST	WRENCHES FOR ER 40 STANDARD



Code	Description
EDL925CHVOC	WRENCHES WITH SIDE GRIP 25
EDL932CHVOC	WRENCHES WITH SIDE GRIP 32
EDL940CHVOC	WRENCHES WITH SIDE GRIP 40

Thank you for choosing our products.
 For best results, please follow below instructions.

1. GENERALITIES

Each tool holder has passed a QC test and has a documented specification, attesting his geometric precision.

Our tool holders are equipped with high-quality sealed bearings that ensure a long service life. The grease that is used is Kluber or Isoflex.

Each tool holder is checked for temperature and vibration parameters on the test bench. This means that the tool holder is ready to start working in the production process!

PLEASE NOTE

Keep these instructions, with care, to have them whenever needed for consultation.

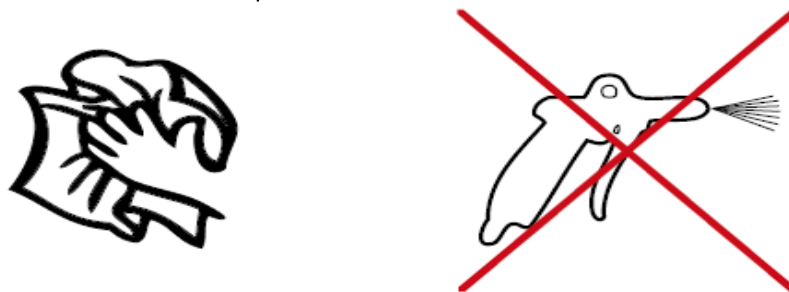
Be aware of any state law to avoid accidents for yourself and others by using live tool holders. Be careful when handling the tool holders to prevent it from falling, which could cause injury to yourself and others. Until the tool holder is attached to the turret, use rubber or plastic tool sleeves to avoid injuries caused by the tool cutting sharp edges.

If the tool holders are overloaded, there may be major damage in the operation of the product. In this brochure it is using symbolic representations. Some accessories shown are not included, as standard, with delivered tool holders.

2. INSTALLATION AND FUNCTIONING

2.1. Cleaning and care

For cleaning, use a soft cloth. Do not use compressed air to clean the tool holders.



To achieve a long life of tool holders, please do not use strong chemical cleaners.
 Protect the surfaces of the tool holders with oil or other anti-corrosion products during storage.

2.2. Transmission, bearings and lubrication

Bearings and gears are lubricated with high quality lubricants for the lifetime of tool holder. Any additional lubrication is not required under normal operating conditions.

Additional data such as torque, maximum speed, etc. can be taken from the product datasheet.

2.3. Fixing on the turret

In principle, in order to guarantee an optimal function of the tool holder, a clean surface of the turret interface and the couplings is required. Only this ensures the highest possible accuracy in the cutting process.

2.3.1. Mounting the tool holders on the turret

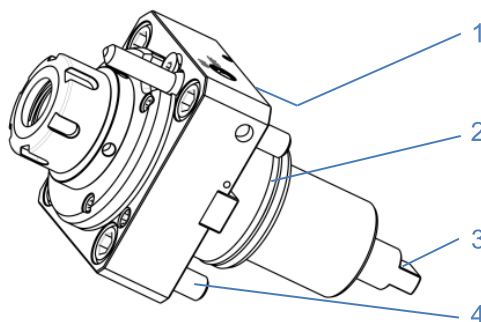
Please inspect the contact surface of the turret (1). It must be clean and without chips.

Please check that the ring O-ring (2) is not damaged.

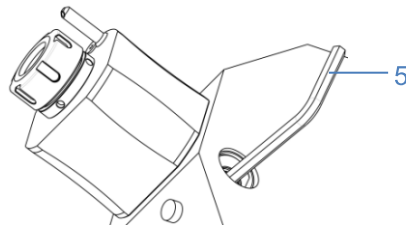
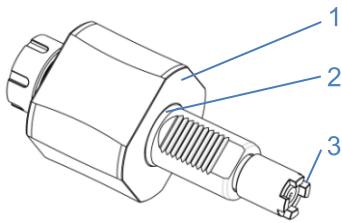
Insert the cylindrical part of the tool holder into the turret. Please ensure that the drive shaft (3) engages with the turret drive.

Enter the tool holder inside turret until the interface contact is well done. Ensure the tool holder with firmly tightened.

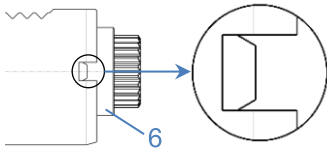
BMT turret: Mount the holder on turret and firmly tighten the bolts (4).



VDI turret: mount the holder on turret and tighten the rack screw with the hexagon key (5) firmly.



NOTE: The coupling of tool holder must be aligned with similar coupling from inside turret interface. If the tool holder cannot easily be inserted into the turret, then remove the tool holder from the turret surface. In this case, please use the machine's operating instructions.

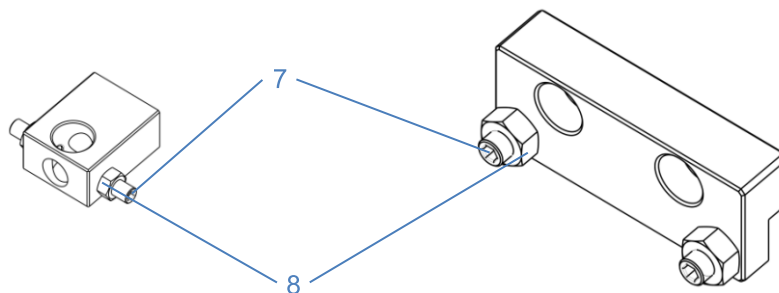


Particular case: for Live Tool Holders with coupling type DIN 5480, for making coupling, tool holder's shaft need to be in locked position, so no rotation. This position is realized when ring beak (6) is in position from this picture.

ATTENTION! When cutting tool is fixing in tool holder, the ring (6) will be moved from locked position, by axial pushing and turned, by hand, not to forcing ring beak.

2.3.2. Aligning the VDI angular tool holder

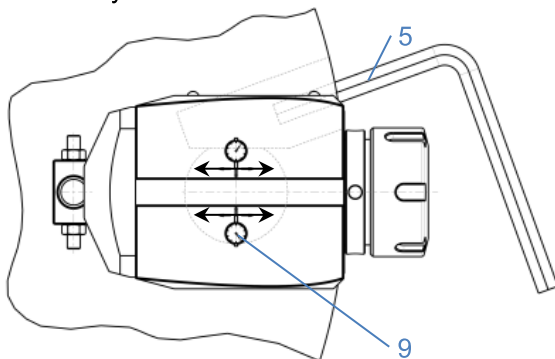
The angular tool holders can be equipped for alignment with one of the following systems:



version A

version B

The system is mounted on the tool holder.



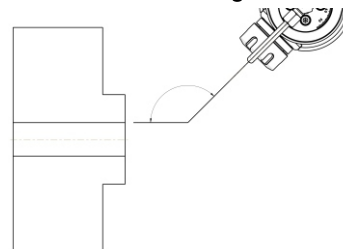
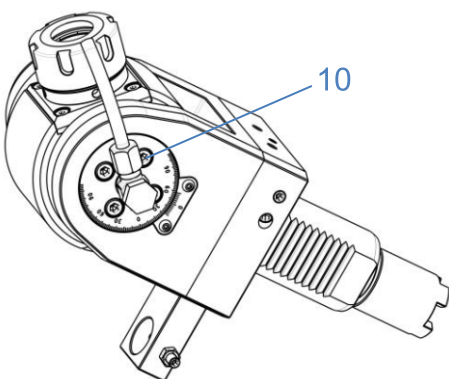
The tool holder will be set as follows: gently squeeze the tool holder on the turret through toothed rack in the recess by tightening a hex key (5) to allow the alignment. Align the tool holder with a dial comparator clock (9), by displacing it along the whole length of aligning area (surface), using for adjusting threaded pins (7). Once you have aligned the tool holder, you must tighten the threaded pins (7) and secure them with nuts (8), then firmly tighten the rack screw with the hexagon key (5).

At the end of alignment operation **check again position set-up.**

2.4. Variable Angle Tool holder - Angle setting

The screws (10) will be loosen. Set the desired angle and firmly tighten the screws (10).

Check the set angle, with a Digital Angle Finder or a Protractor, measuring by comparison the angle between the cutting tool and axle of the spindle (chuck).



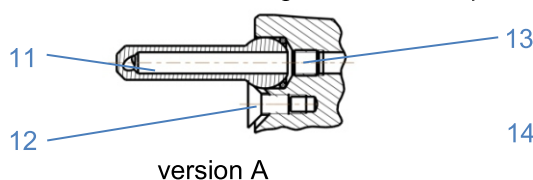
2.5. Cooling system of the Tool Holder

External cooling: Tool holders provides coolant through pipes. For external cooling you have to:

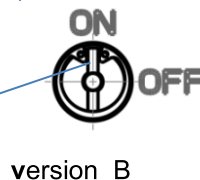
version A: - Remove the plug (13) using a 2.5mm hexagonal Allen key.

version B: - Open, by turning, the special valve (14) with a screwdriver.

Adjust the direction of the external cooling fluid with the spherical joint (11) and fasten it with setting screw (12).

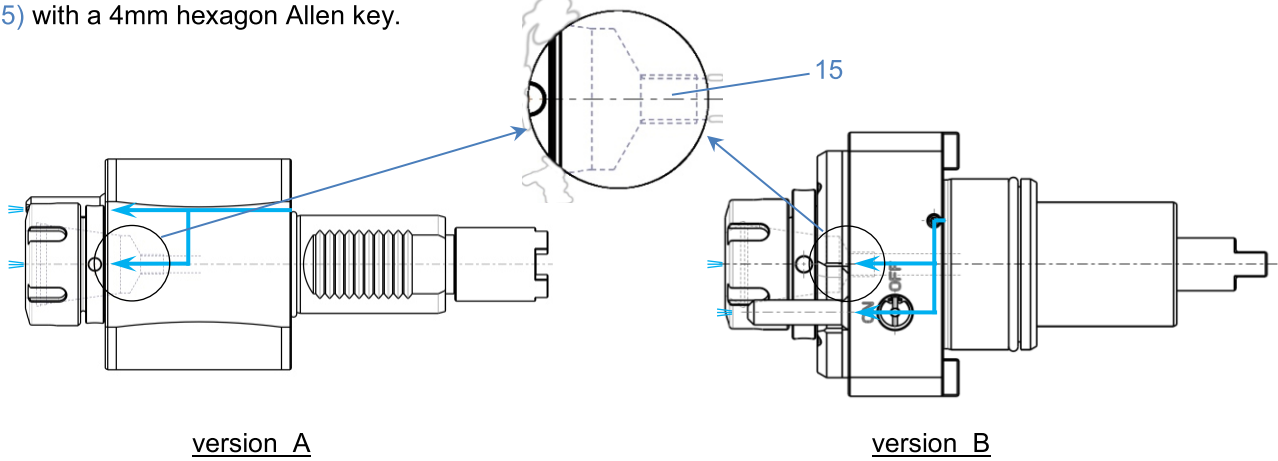


version A



version B

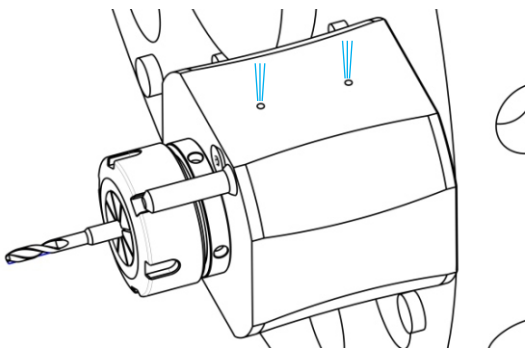
Internal cooling: Tool holders provide coolant through the shaft, respectively by the cutting tool. For the internal cooling of the cutting tool, remove the plug (15) with a 4mm hexagon Allen key.



Set the cooling type: external, internal or external + internal.

ATTENTION!

NEVER WORK WITHOUT COOLING LIQUIDS WHEN USING TOOL HOLDERS WITH INTERNAL COOLANT

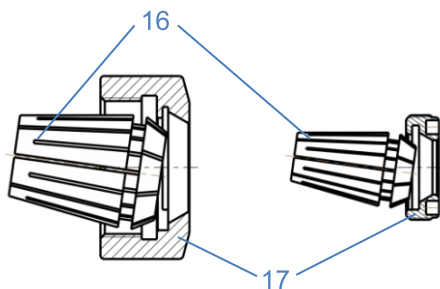


WARNING ! TOOL HOLDERS WITH INTERNAL COOLANT

If we have the situation in the picture or when coolant leaks occur during the use of the tool holder, the operation of the tool holder will be stop and please contact the manufacturer / seller.

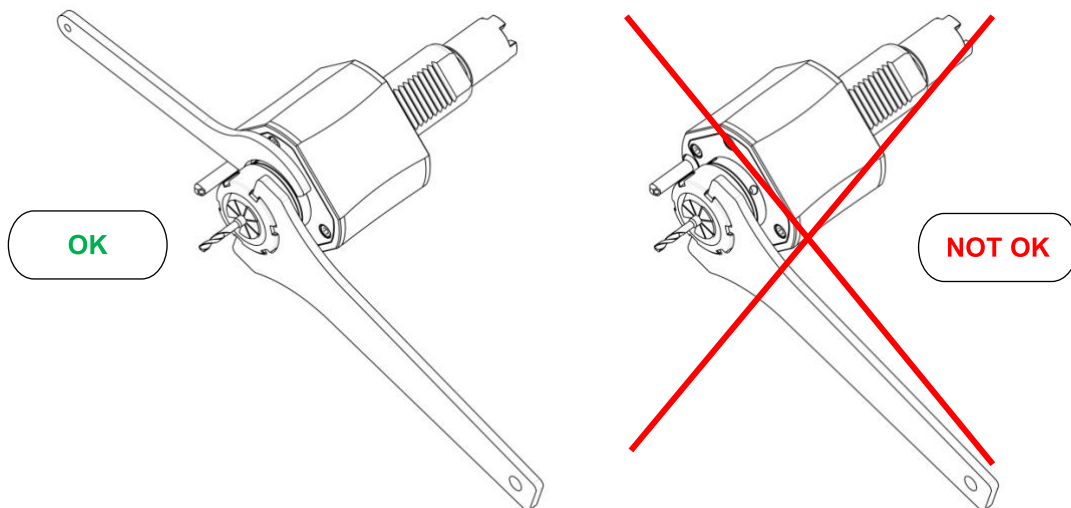
2.6. Clamping the tool

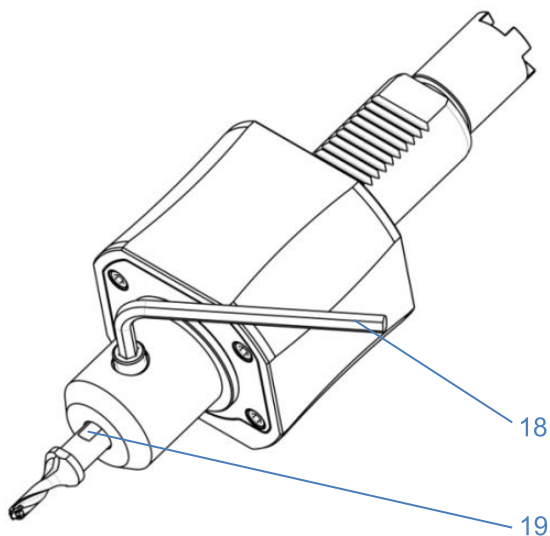
2.6.1. Fixing the cutting tool in collet



Insert the collet (16) into the ER clamping nut (17) until it enters inside locking way.

Firmly tighten the ER clamping nut using 2 (two) keys, as in bellow picture.





Insert the cutting tool (18) (with the milled surface against the retaining pin) into the shaft hole and lock with the threaded pin using the hexagon key (19).

3. PROBLEMS IN OPERATION

If a malfunction may appear during operation, lathe operator must stop immediately the using of the tool holder and customer needs to send a Service Request Document, if a such fault (failure) has been detected.

If there are problems or malfunctions with the tool holder, please contact the manufacturer / seller to return product for inspection, along with the service document.

Service Document, is stated at last page of present Instructions.

3.1. Instructions for products returning:

In order to keep the shortest repair times, please:

- Notify in advance that the product will be returned and propose a delivery date so that the repair can be scheduled in the internal service program. Products received without a service document will have a lower priority.
- Provide product with a detailed description of the occurred problem, including as much information as possible.
- Without a service document, service department will not be able to repair the product on time.

3.2. Goods returned because of incorrect order, issued by the customer

In the event of a wrong order issued by the customer, the return of the product must be approved by the manufacturer / seller in advance. If approved, manufacturer will agree with the customer the replacement of tool holder. All transport costs will be bear by customer, in this case.

4. WARRANTY

- a) Defects that occur within 12 months from delivery date will be covered by producer warranty.
- b) The warranty does not cover damages or defects resulting from the negligence or improper use by the buyer personnel or if the products or their parts have been modified or repaired without the manufacturer's authorization.
- c) Repairs during the warranty period must be performed by the manufacturer or by a company / person approved by the manufacturer.
- d) The warranty is void if the product has previously been disassembled / repaired by unauthorized personnel.
- e) If repair is considered in warranty condition, this includes replacing of components that are subject to wear due to their intrinsic characteristics. However, the normal wear of these components cannot be considered as the sole reason for confirming the warranty.
- f) The seller or manufacturer will not be responsible for defects in materials or projects provided by the buyer.
- g) In particular, the manufacturer will not be held responsible for defects caused during transport and storage, misuse of the product by the customer (collisions), use outside normal working conditions, failure to observe the operating instructions and maintenance rules prescribed by producer.
- h) Repairs during the warranty period are made on the basis of a written complaint sent by the buyer, which must include a detailed description of the defect and which can be verified by the producer.

Repairs outside the warranty

For tool holders that are no longer covered by warranty, a standard toll charge of 30 EUR / tool holder, will be applied for disassemble and evaluation of the product state. If the Repair Offer is accepted by the customer and a Repair Order is received, this fee will not be paid by customer.

Maintenance Data Sheet

Contact information

Company	
Contact person	
Address	
Invoice address	
Telephone no.	
Fax no.	
Email	
Your reference	

Tool holder

Error description (multiple selection possible):						
a. Precision	b. Clearance	c. Collision	d. Stiffness	e. Leakiness (cooling water inleakage)	f. Noise	g. Temperature

Reason for return shipment:

1. REPAIR

2. PREVENTIVE MAINTENANCE

3. COMPLAINT

Nr. art	Part number	Serial number	Error description	Reason for return shipment
1.			a. <input type="checkbox"/> b. <input type="checkbox"/> c. <input type="checkbox"/> d. <input type="checkbox"/> e. <input type="checkbox"/> f. <input type="checkbox"/> g. <input type="checkbox"/> Further informations <div style="background-color: #e6e6fa; height: 40px; margin-top: 5px;"></div>	1. <input type="checkbox"/> 2. <input type="checkbox"/> 3. <input type="checkbox"/>
2.			a. <input type="checkbox"/> b. <input type="checkbox"/> c. <input type="checkbox"/> d. <input type="checkbox"/> e. <input type="checkbox"/> f. <input type="checkbox"/> g. <input type="checkbox"/> Further informations <div style="background-color: #e6e6fa; height: 40px; margin-top: 5px;"></div>	1. <input type="checkbox"/> 2. <input type="checkbox"/> 3. <input type="checkbox"/>

****Purchase Date :**

**Purchase Date : This is required for warranty coverage evaluation - please attach documentation to verify date of delivery.

Remarks

Please fill out this from our e-mail, print it and attach it to the delivery. You will be notified when we receive your package/delivery. After checking the tool holder, we will send you the estimated cost.

Date		Name/Surname/Signature	
------	--	------------------------	--



SAMTEC

Your Partner For Innovative Tooling Solutions

Samtec Tools & Accessories Pvt. Ltd.

Survey No.33/3, Behind MITCON Institute, Balewadi,
PUNE-411 045, INDIA

Mobile: +91 9325409714,

Tel No: +91 9175105689, 7507205689

web.: www.samtectools.com

ashish@samtectools.com

info@samtectools.com

Distributed by: