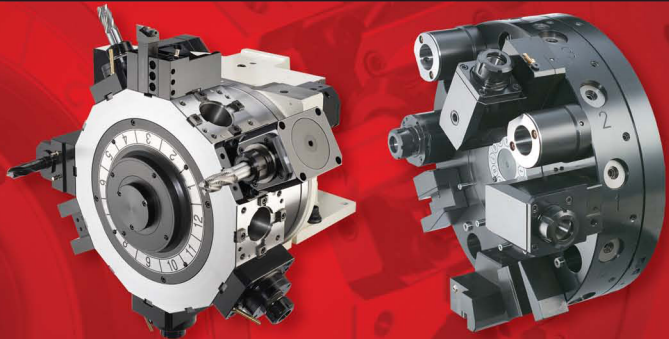


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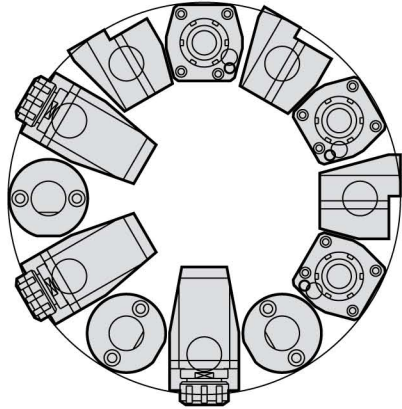
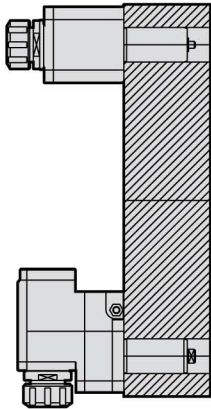
 VDI DIN 1809	A
 VDI DIN 5480	B
 VDI DIN 5482	C
 VDI MT	D
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 DAEWOO SYSTEM TOOLS	Q
 VDI BIGLIA	R
 VDI HAAS	S
 QUICK CHANGE TAPPING	T

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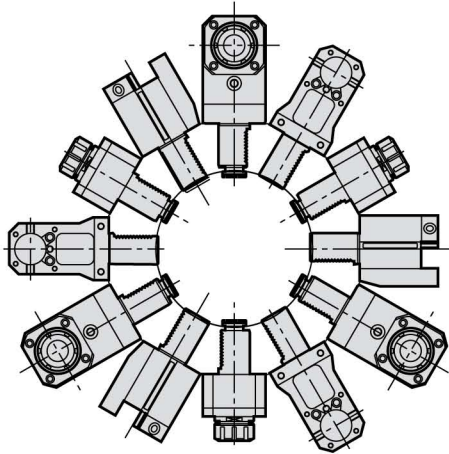
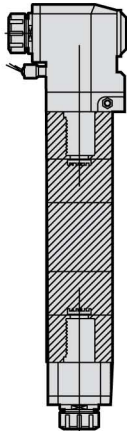




Axial



Radial





COUPLING

A DIN 1809 (DUPLOMATIC)



► Coupling to DIN 1809

D MT (BARUFFALDI)



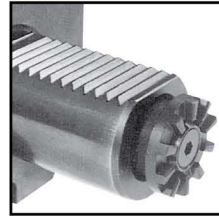
► Spur Coupling

B DIN 5480 (SAUTER)(DUPLOMATIC)



► Coupling to DIN 5480

E IT (DUPLOMATIC)



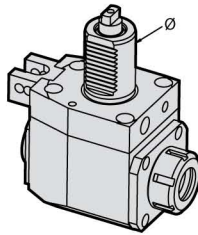
► Spur Coupling

C DIN 5482 (SAUTER)(DUPLOMATIC)

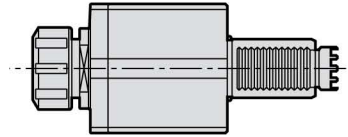


► Coupling to DIN 5482





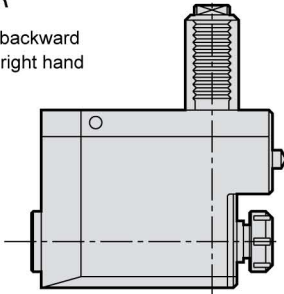
DA



	VDI 20	VDI 30	VDI 40	VDI 50
ømm	20	30	40	50

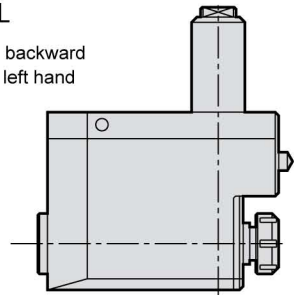
BR

B: backward
 R: right hand



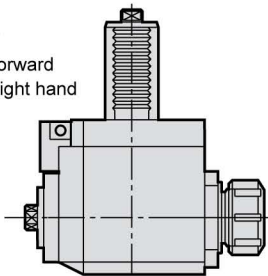
BL

B: backward
 L: left hand



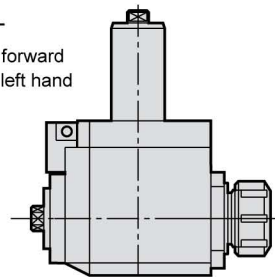
FR

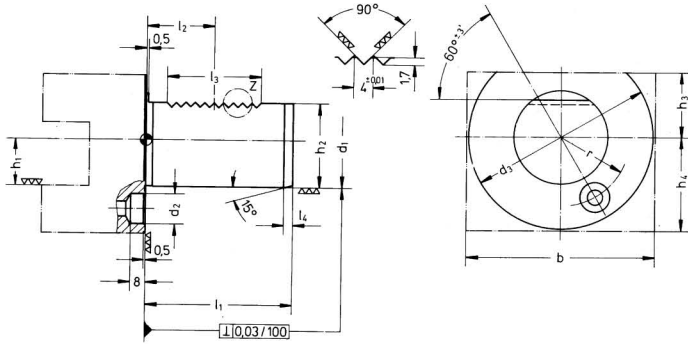
F: forward
 R: right hand



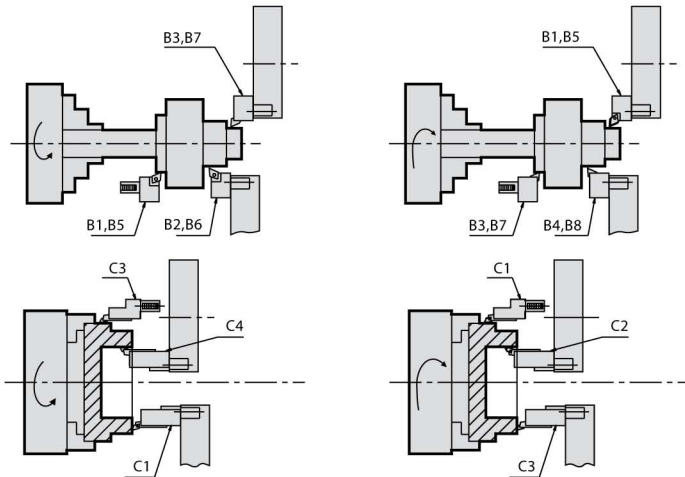
FL

F: forward
 L: left hand



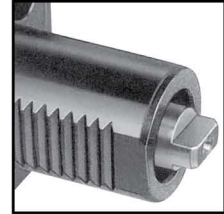
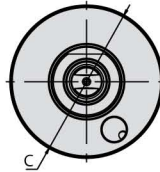
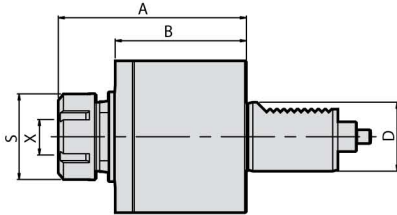


d1 h6	l1 ±0.3	d2		d3	h1 max	h2 ±0.1	l2 ±0.05	l3 min	l4 +1	r4 ±0.02
20	40	10	H6	50	16	18	21.7	24	2	18
30	55	14	H9	68	20	27	29.7	40	2	25
40	63	14	H9	83	25	36	29.7	40	3	32
50	78	16	H9	98	32	45	35.7	48	3	37
60	94	16	H9	123	32	55	43.7	56	4	48





AXIAL DRILING AND MILLING HEAD



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included.

Power Transmission According To DIN 1809

D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	Order No.
20	1-10 ER16	30	6000	1:1	77	49	58	DA20180916
30	1-16 ER25	42	6000	1:1	101	70	68	DA30180925
40	2-20 ER32	50	6000	1:1	89	55	86	DA40180932
50	3-26 ER40	63	6000	1:1	120	81.5	96	DA50180940
60	10-34 ER50	78	6000	1:1	140	88.5	116	DA60180950

AXIAL TAPPING HEAD

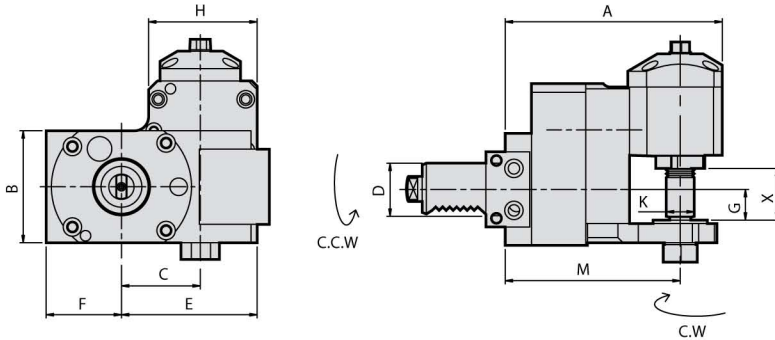
D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	Order No.
30	1-10 ER16	30	3000	1:1	103	70	68	TDA30180916
40	1-13 ER20	35	3000	1:1	112	74	86	TDA40180920
50	1-16 ER25	42	3000	1:1	121	81.5	96	TDA50180925
60	2-20 ER32	50	3000	1:1	147	88.5	116	TDA60180932



RADIAL DRILLING AND MILLING HEAD

TYPE DIN 1809

DISK CUTTER UNITS

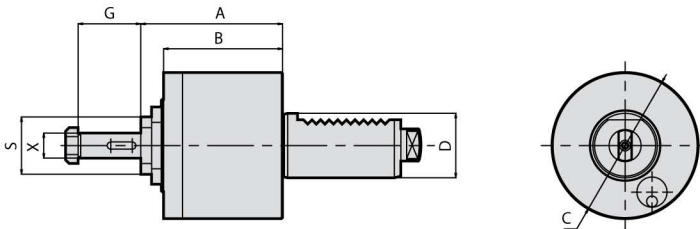


- External coolant supply

Other shank dimensions under development

D DIN 69880	X Capacity	Maximum R.P.M.	i	A	B	C	E	F	G	H	K	M	Order No.
30	29	3000	3:1	124	64	45	77.5	34	18	62	16	100	BR30180916C/3 BL30180916C/3
40	30.5	3000	3:1	127	70	45	77.5	34	18	62	16	103	BR40180916C/3 BL40180916C/3

AXIAL MILLING AND DRILLING HEAD



- To be used for cutter arbor according to DIN 6358
- External coolant and intermediate rings supply.

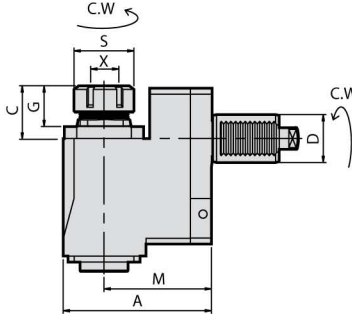
D DIN 69880	X DIN 6358	S	Maximum R.P.M.	i	A	B	C	G	Order No.
30	16	32	3000	1:1	91.5	70	68	27	DA30180916C
40	22	32	3000	1:1	68.5	55	86	31	DA40180922C
50	22	40	3000	1:1	117	81.5	96	31	DA50180922C
50	27	40	3000	1:1	117	81.5	96	33	DA50180927C



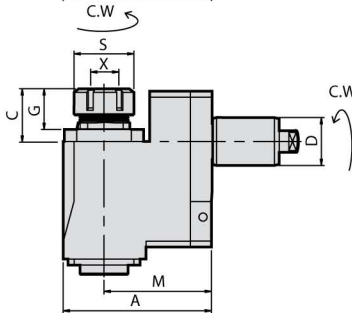
RADIAL DRILLING AND MILLING HEAD SET BACK

TYPE DIN 1809

MODE: BL
LEFT-HAND



MODE: BR
RIGHT-HAND



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included.

D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	M	Order No.
20	1-10 ER16	30	5000	1:1	83	50	35	70	27	27	60	BR2018091660 BL2018091660
30	1-16 ER25	42	5000	1:1	95	60	41.5	75.5	31.5	29	69	BR3018092569 BL3018092569
40	2-20 ER32	50	5000	1:1	124	80	44	110	42	34	90	BR4018093290 BL4018093290
50	3-26 ER40	63	5000	1:1	129	86	49	112	45	39	90	BR5018094090 BL5018094090
60	10-34 ER50	78	3000	1:1	147	104	83	118	54	42	102	BR60180950106 BL60180950106

RADIAL TAPPING HEAD

D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	M	Order No.
30	1-10 ER16	30	3000	1:1	95	60	44	75.5	31.5	32	69	TBR3018091669 TBL3018091669
40	1-13 ER20	35	3000	1:1	124	80	50	110	42	34	90	TBR4018092090 TBL4018092090
50	1-16 ER25	42	3000	1:1	129	86	54	112	45	36	90	TBR5018092590 TBL5018092590
60	2-20 ER32	50	3000	1:1	147	104	87	118	54	40	102	TBR60180932106 TBL60180932106

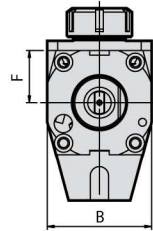
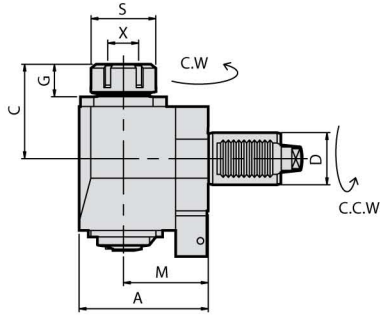




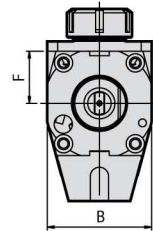
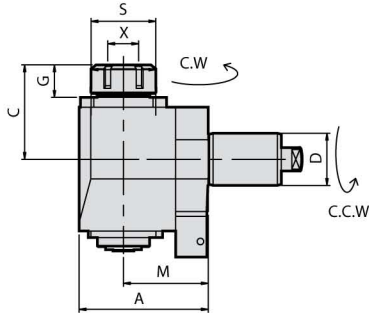
RADIAL DRILLING AND MILLING HEAD

TYPE DIN 1809

MODE: FL
LEFT-HAND



MODE: FR
RIGHT-HAND



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included.

D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	Order No.
20	1-10 ER16	30	5000	1:1	67	50	63	27	24.5	45	FR2018091645 FL2018091645
30	1-16 ER25	42	5000	1:1	87	64	74.5	41	26	55	FR3018092555 FL3018092555
40	2-20 ER32	50	5000	1:1	99	80	71	40	23	65	FR4018093265 FL4018093265
50	3-26 ER40	63	5000	1:1	115	88	103	56	40	75	FR5018094075 FL5018094075

RADIAL TAPPING HEAD

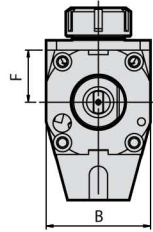
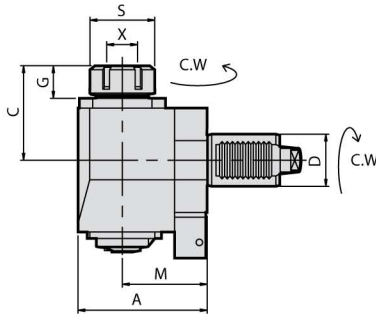
D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	Order No.
30	1-10 ER16	30	3000	1:1	87	64	75	41	30	55	TFR3018091655 TFL3018091655
40	1-13 ER20	35	3000	1:1	99	80	70	40	25	65	TFR4018092065 TFL4018092065
50	1-16 ER25	42	3000	1:1	115	88	103	56	42	75	TFR5018092575 TFL5018092575



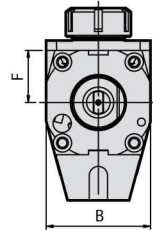
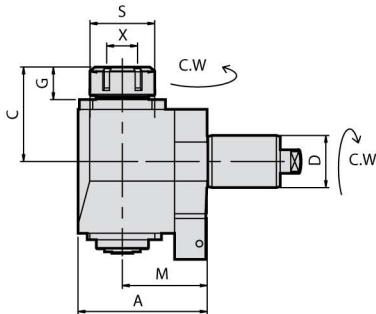
RADIAL DRILING AND MILLING HEAD

TYPE DIN 1809

MODE: FL
LEFT-HAND



MODE: FR
RIGHT-HAND



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included.

D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	Order No.
40	2-20 ER32	50	5000	1:1	99	80	71	40	23	65	N-FR4018093265 N-FL4018093265
50	3-26 ER40	63	5000	1:1	115	88	103	56	40	75	N-FR5018094075 N-FL5018094075

RADIAL TAPPING HEAD

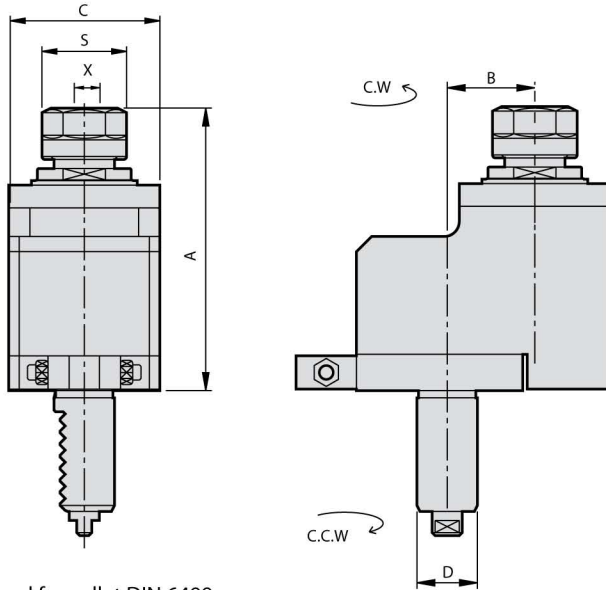
D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	Order No.
40	1-13 ER20	35	3000	1:1	99	80	70	40	25	65	N-TFR4018092065 N-TFL4018092065
50	1-16 ER25	42	3000	1:1	115	88	103	56	42	75	N-TFR5018092575 N-TFL5018092575



AXIAL DRILLING AND MILLING HEAD

TYPE DIN 1809

OFFSET



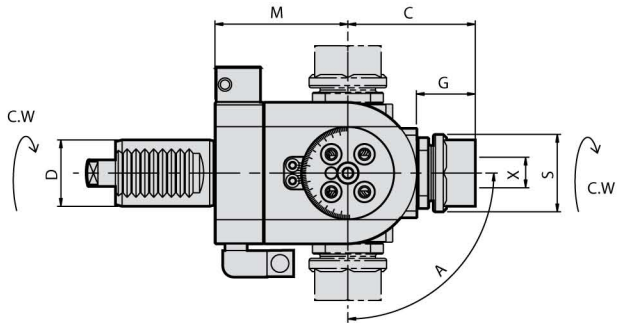
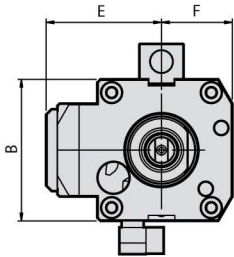
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included.

D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	Order No.
20	1-10 ER16	30	4000	1:1	93.5	29	50	DA2018091629
30	1-16 ER25	42	4000	1:1	100	29	60	DA3018092529
30	1-16 ER25	42	8000	1:2	100	29	60	DA3018092529/1
40	2-20 ER32	50	4000	1:1	113	50	80	DA4018093250
50	3-26 ER40	63	3000	1:1	124	65	86	DA5018094065
60	10-34 ER50	78	3000	1:1	173.5	65	104	DA6018095065
60	10-34 ER50	78	3000	1:1	173.5	80	104	DA6018095080
60	10-34 ER50	78	3000	1:1	173.5	100	104	DA60180950100



ANGULAR HEAD

TYPE DIN 1809



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included.

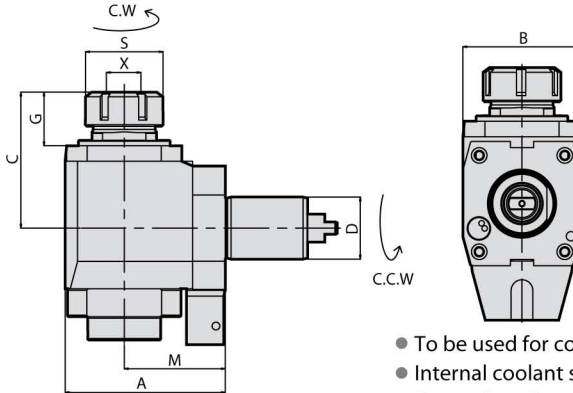
D DIN 69880	X Capacity	S	Maximum R.P.M.	A	B	C	E	F	G	M	Order No.
30	1-13 ER20	35	4000	±90û	64	59	54	32	27	67	DA30180920B
30	1-13 ER20	35	4000	±90û	64	59	54	32	27	80	DA30180920B/L
40	1-16 ER25	42	4000	±90û	76	65	65	38	29	70	DA40180925B
60	3-26 ER40	63	4000	±90û	104	99	83	52	36	94	DA60180940B

Other shank dimensions under development



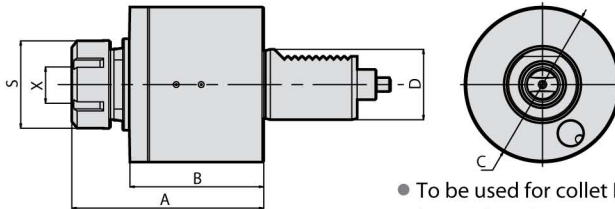
AXIAL DRILLING AND MILLING HEAD

TYPE DIN 1809



- To be used for collet DIN 6499
- Internal coolant supply
- External coolant supply
- Collet is not included.

D DIN 69880	X Capacity	S	Maximum R.P.M.	A	B	C	G	M	Order No.
30	1-16 ER25	50	4000	87	64	77.5	30	55	CWFR4018092555
40	2-20 ER32	50	4000	103	76	87.5	34.5	65	CWFR4018093265



- To be used for collet DIN 6499
- Internal coolant supply
- External coolant supply
- Collet is not included.

D DIN 69880	X Capacity	S	Maximum R.P.M.	A	B	C	Order No.
30	1-16 ER25	42	6000	101	72.5	68	CWDA301809ER25
40	2-20 ER32	50	6000	109	76	86	CWDA401809ER32
60	10-34 ER50	78	6000	143	90	116	CWDA601809ER50

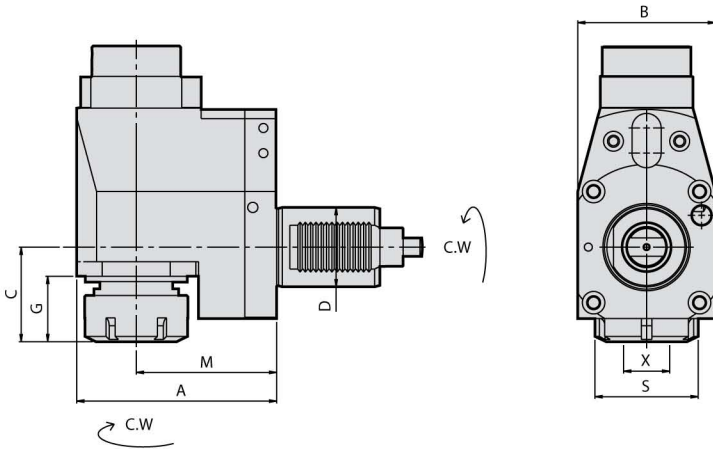


AXIAL DRILLING AND MILLING HEAD SET BACK

TYPE DIN 1809

MODE: BL

LEFT-HAND



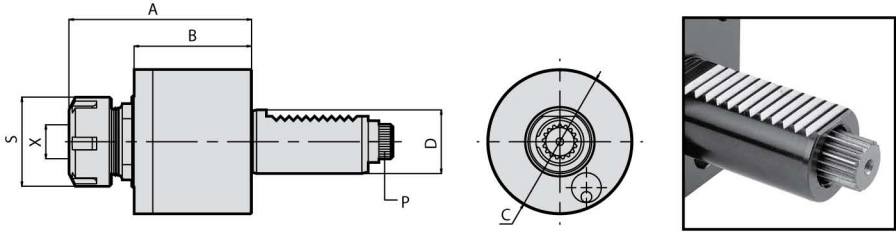
- To be used for collet DIN 6499
- Internal coolant supply
- External coolant supply
- Collet is not included.

D DIN 69880	X Capacity	S	Maximum R.P.M.	A	B	C	G	M	Order No.
60	10-34 ER50	78	4000	151	104	71.5	50	106	CWBR60180950106



AXIAL DRILLING AND MILLING HEAD

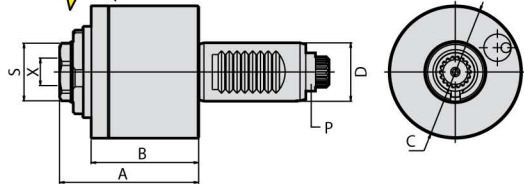
TYPE DIN 5480



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included.



Power Transmission According
To DIN 5480



D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	P DIN 5480	Order No.
20	1-10 ER16	30	6000	1:1	76	48	58	W11X0.8	DA20548016
30	1-16 ER25	42	6000	1:1	70	55	68	W16X0.8	DAC30548025A
30	1-16 ER25	42	6000	1:1	85	55	68	W16X0.8	DAC30548025
30	1-16 ER25	42	6000	1:1	101	70	68	W16X0.8	DA30548025
40	2-20 ER32	50	6000	1:1	90	55	86	W20X0.8	DA40548032
50	3-26 ER40	63	6000	1:1	122	82	96	W24X1.25	DA50548040

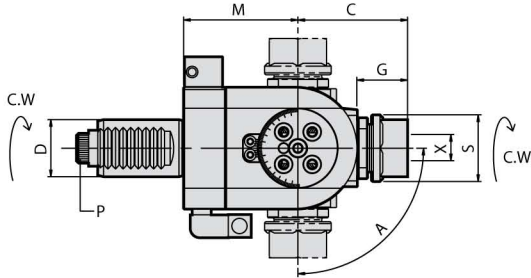
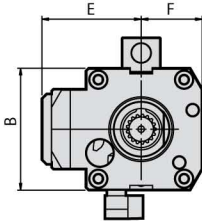
AXIAL TAPPING HEAD

D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	P DIN 5480	Order No.
30	1-10 ER16	30	3000	1:1	105	70	68	W16X0.8	TDA30548016
40	1-13 ER20	35	3000	1:1	93	55	86	W20X0.8	TDA40548020



ANGULAR HEAD

TYPE DIN 5480

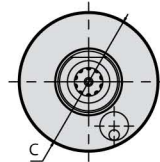
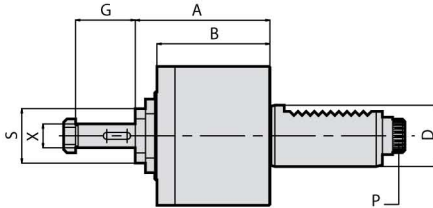


Other shank dimensions under development

- To be used for collet DIN 6499
- External coolant supply
- Collet is not included.

D DIN 69880	X Capacity	S	Maximum R.P.M.	A	B	C	E	F	G	M	P DIN 5480	Order No.
30	1-13 ER20	35	4000	$\pm 90\mu$	64	59	54	32	27	67	W16X0.8	DA30548020B
40	1-16 ER25	42	4000	$\pm 90\mu$	76	65	65	38	29	70	W20X0.8	DA40548025B
50	3-26 ER40	63	4000	$\pm 90\mu$	104	99	83	52	36	105	W24X1.25	DA50548040B

AXIAL DRILLING AND MILLING HEAD



- To be used for cutter arbor according to DIN 6358
- External coolant and intermediate rings supply.

D DIN 69880	X DIN 6358	S	Maximum R.P.M.	A	B	C	G	P DIN 5480	Order No.
30	16	32	3000	91.5	70	68	27	W16X0.8	DA30548016C
40	16	32	3000	68.5	55	86	27	W20X0.8	DA40548016C
40	22	32	3000	68.5	55	86	31	W20X0.8	DA40548022C

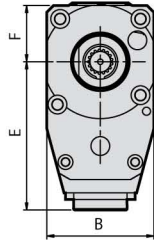
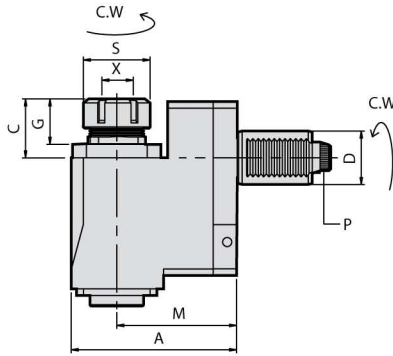




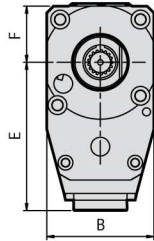
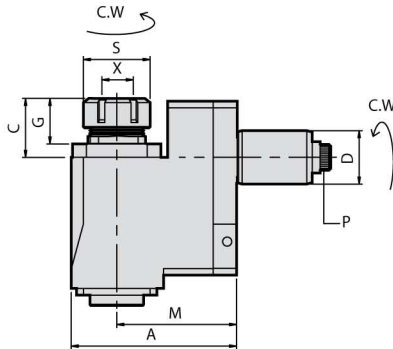
RADIAL DRILLING AND MILLING HEAD SET BACK

TYPE DIN 5480

MODE BL
LEFT-HAND



MODE BR
RIGHT-HAND



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included.

D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	M	P DIN 5480	Order No.
30	1-16 ER25	42	5000	1:1	95	60	42	75.5	31.5	28.5	69	W16X0.8	BR3054802569 BL3054802569
40	2-20 ER32	50	5000	1:1	124	80	44	110	42	34	90	W20X0.8	BR4054803290 BL4054803290
50	3-26 ER40	63	5000	1:1	129	86	49	112	42	39	90	W24X1.25	BR5054804090 BL5054804090

RADIAL TAPPING HEAD

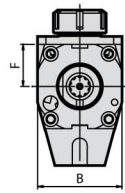
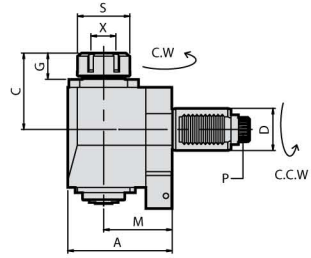
D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	M	P DIN 5480	Order No.
30	1-10 ER16	30	3000	1:1	95	60	44	75.5	31.5	32	69	W16X0.8	TBR3054801669 TBL3054801669
40	1-13 ER20	35	3000	1:1	124	80	50	110	42	34	90	W20X0.8	TBR4054802090 TBL4054802090



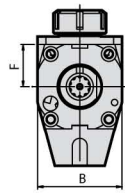
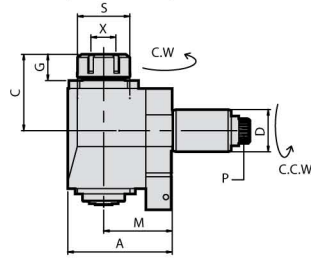
RADIAL DRILLING AND MILLING HEAD

TYPE DIN 5480

MODE FL
LEFT-HAND



MODE FR
RIGHT-HAND



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included.

D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	P DIN 5480	Order No.
30	1-16 ER25	42	5000	1:1	97	64	74.5	41	26	55	W16X0.8	FR3054802555 FL3054802555
30	1-16 ER25	42	5000	1:1	117	64	74.5	41	26	85	W16X0.8	FR3054802585 FL3054802585
30	1-16 ER25	42	5000	1:1	127	64	74.5	41	26	100	W16X0.8	FR30548025100 FL30548025100
40	2-20 ER32	50	5000	1:1	99	80	71	40	23	65	W20X0.8	FR4054803265 FL4054803265
40	2-20 ER32	50	5000	1:1	119	80	71	40	23	85	W20X0.8	FR4054803285 FL4054803285
40	2-20 ER32	50	5000	1:1	134	80	71	40	23	100	W20X0.8	FR40548032100 FL40548032100
50	3-26 ER40	63	5000	1:1	115	88	102	56	35	75	W24X1.25	FR5054804075 FL5054804075
					140	88	102	56	35	100		

RADIAL TAPPING HEAD

D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	P DIN 5480	Order No.
30	1-10 ER16	30	3000	1:1	97	64	75	41	30	55	W16X0.8	TFR3054801655 TFL3054801655
30	1-10 ER16	30	3000	1:1	117	64	75	41	30	85	W16X0.8	TFR3054801685 TFL3054801685
30	1-10 ER16	30	3000	1:1	127	64	75	41	30	100	W16X0.8	TFR30548016100 TFL30548016100
40	1-13 ER20	35	3000	1:1	99	80	70	40	25	65	W20X0.8	TFR4054802065 TFL4054802065
40	1-13 ER20	35	3000	1:1	119	80	70	40	25	85	W20X0.8	TFR4054802085 TFL4054802085
40	1-13 ER20	35	3000	1:1	134	80	70	40	25	100	W20X0.8	TFR40548020100 TFL40548020100

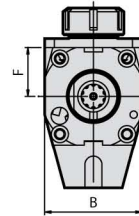
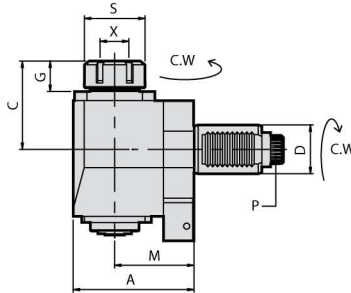




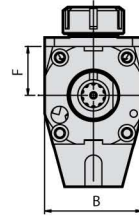
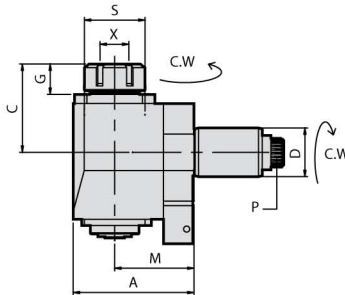
RADIAL DRILLING AND MILLING HEAD

TYPE DIN 5480

MODE: FL
LEFT-HAND



MODE: FR
RIGHT-HAND



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included.

D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	P DIN 5480	Order No.
40	2-20 ER32	50	5000	1:1	99	80	71	40	23	65	W20X0.8	N-FR4054803265 N-FL4054803265
40	2-20 ER32	50	5000	1:1	119	80	71	40	23	85	W20X0.8	N-FR4054803285 N-FL4054803285
40	2-20 ER32	50	5000	1:1	134	80	71	40	23	100	W20X0.8	N-FR40548032100 N-FL40548032100
50	3-26 ER40	63	5000	1:1	115	88	102	56	35	75	W24X1.25	N-FR5054804075 N-FL5054804075
50	3-26 ER40	63	5000	1:1	140	88	102	56	35	100	W24X1.25	N-FL50548040100

RADIAL TAPPING HEAD

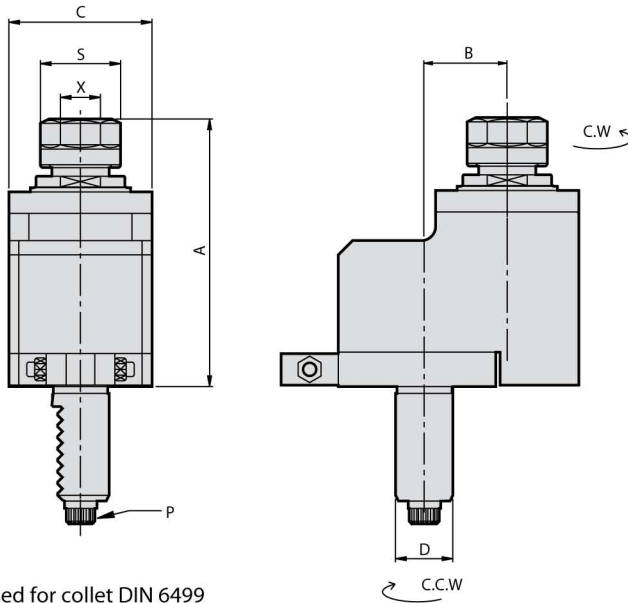
D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	P DIN 5480	Order No.
40	1-13 ER20	35	3000	1:1	99	80	70	40	25	65	W20X0.8	N-TFR4054802065 N-TFL4054802065
40	1-13 ER20	35	3000	1:1	119	80	70	40	25	85	W20X0.8	N-TFR4054802085 N-TFL4054802085
40	1-13 ER20	35	3000	1:1	134	80	70	40	25	100	W20X0.8	N-TFR40548020100 N-TFL40548020100





AXIAL DRILLING AND MILLING HEAD OFFSET

TYPE DIN 5480



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included.

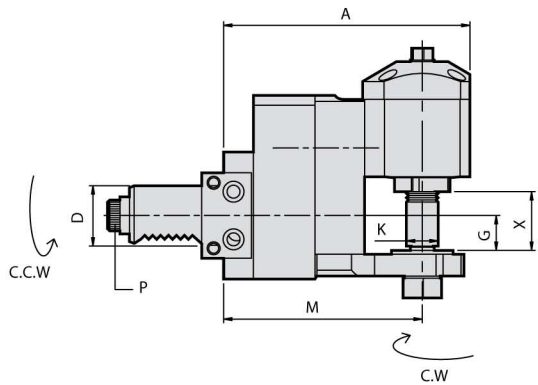
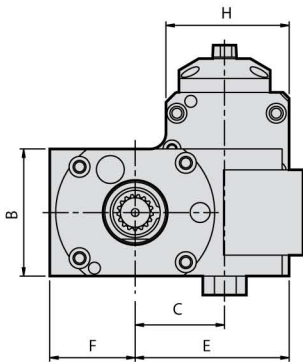
D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	P DIN 5480	Order No.
30	1-16 ER25	42	4000	1:1	100	29	60	W16X0.8	DA3054802529
30	1-16 ER25	42	8000	1:2	100	29	60	W16X0.8	DA3054802529/1
30	1-16 ER25	42	4000	1:2	125	50	75	W16X0.8	DA3054802550
30	1-16 ER25	42	8000	1:1	106	50	75	W16X0.8	DA3054802550/1
40	2-20 ER32	50	4000	1:1	113	50	80	W20X0.8	DA4054803250
50	3-26 ER40	63	4000	1:1	123	65	86	W24X1.25	DA5054804065





RADIAL DRILLING AND MILLING HEAD DISK CUTTER UNITS

TYPE DIN 5480



- External coolant supply

D DIN 69880	X Capacity	Maximum R.P.M.	i	A	B	C	E	F	G	H	K	M	P DIN 5480	Order No.
30	29	3000	3:1	124	64	45	77.5	34	18	62	16	100	W16X0.8	BR30548016C/3 BL30548016C/3
40	30.5	3000	3:1	127	70	45	77.5	34	18	62	16	103	W20X0.8	BR40548016C/3 BL40548016C/3

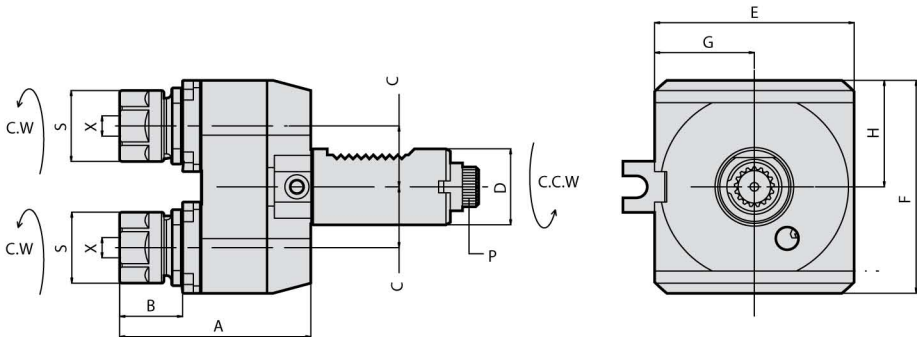
Other shank dimensions under development



AXIAL DRILLING AND MILLING HEAD

TYPE DIN 5480

DOUBLE COLLETS, Y OFFSET



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included.

D DIN 69880	X Capacity	S	Maximum R.P.M.	A	B	C	E	F	G	H	P DIN 5480	Order No.
30	1-10 ER16	30	4000	83	24.5	24	80	95	40	47.5	W16X0.8	DA30548016DY
40	1-13 ER20	35	4000	98	28.5	29	80	104	40	52	W20X0.8	DA40548020DY

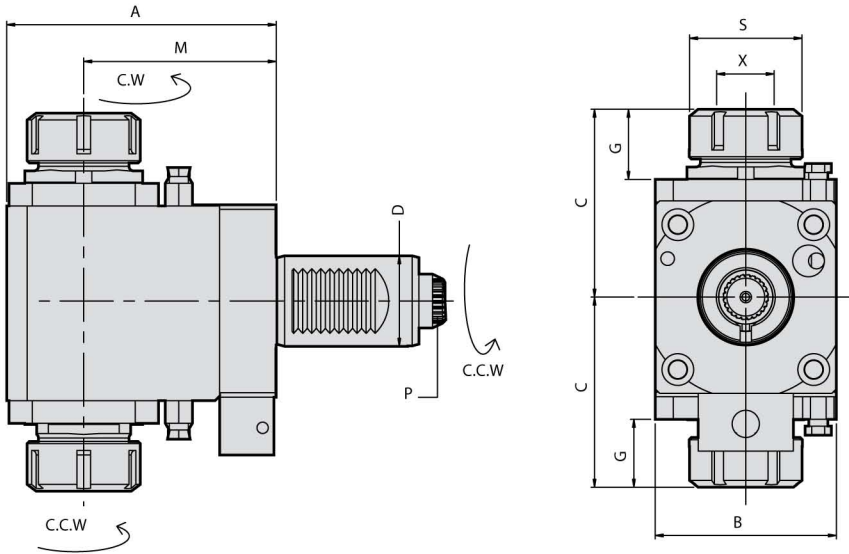
Other shank dimensions under development





RADIAL DRILLING AND MILLING HEAD DOUBLE COLLETS

TYPE DIN 5480



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included.

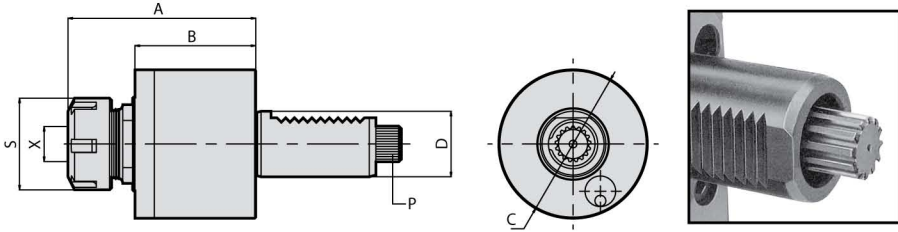
D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	G	M	P DIN 5480	Order No.
30	1-16 ER25	42	4000	1:1	112	64	66	26.5	85	W16X0.8	DF3054802585D
30	1-16 ER25	42	4000	1:1	127	64	66	26.5	100	W16X0.8	DF30548025100D
40	2-20 ER32	50	4000	1:1	119	80	82	28	85	W20X0.8	DF4054803285D
40	2-20 ER32	50	4000	1:1	134	80	82	28	100	W20X0.8	DF40548032100D

Other shank dimensions under development



AXIAL DRILLING AND MILLING HEAD

TYPE DIN 5482



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included.

Power Transmission According
 To DIN 5482

D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	P DIN 5482	Order No.
30	1-16 ER25	42	6000	1:1	101	70	68	B15X12	DA30548225
40	2-20 ER32	50	6000	1:1	110	73.5	86	B17X14	DA40548232
50	3-26 ER40	63	6000	1:1	121	81.5	96	B20X17	DA50548240
60	10-34 ER50	78	6000	1:1	140	88.5	116	B25X22	DA60548250

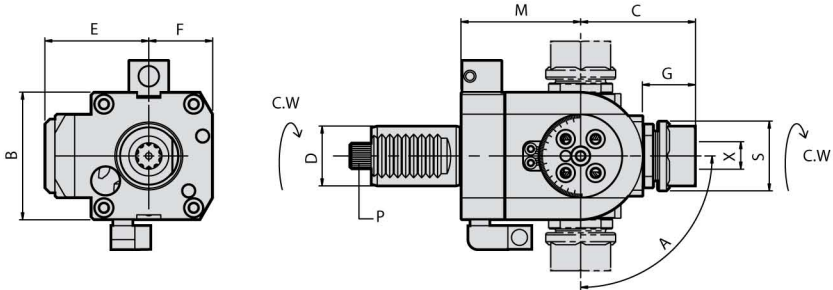
AXIAL TAPPING HEAD

D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	P DIN 5482	Order No.
30	1-10 ER16	30	3000	1:1	103	70	68	B15X12	TDA30548216
40	1-13 ER20	35	3000	1:1	104	73.5	86	B17X14	TDA40548220
50	1-16 ER25	42	3000	1:1	121	81.5	96	B20X17	TDA50548225
60	2-20 ER32	50	3000	1:1	147	88.5	116	B25X22	TDA60548232



ANGULAR HEAD

TYPE DIN 5482

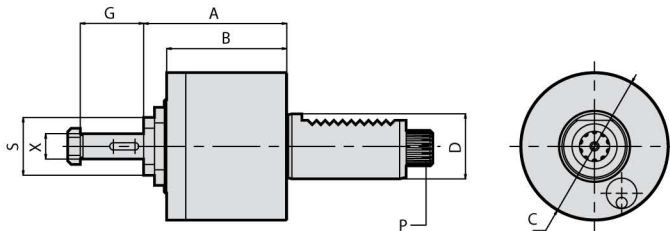


Other shank dimensions under development

- To be used for collet DIN 6499
- External coolant supply
- Collet is not included.

D DIN 69880	X Capacity	S	Maximum R.P.M.	A	B	C	E	F	G	M	P DIN 5480	Order No.
30	1-13 ER20	35	4000	$\pm 90\mu$	64	59	54	32	27	67	B15X12	DA30548220B
40	1-16 ER25	42	4000	$\pm 90\mu$	76	65	65	38	29	70	B17X14	DA40548225B

AXIAL DRILLING AND MILLING HEAD



- To be used for cutter arbor according to DIN 6358
- External coolant and intermediate rings supply.

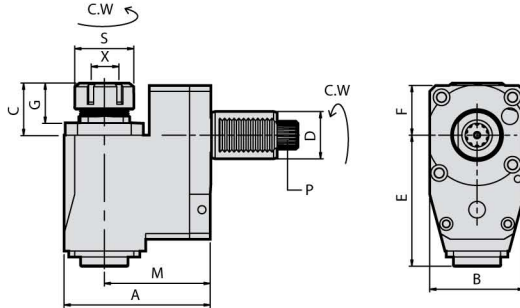
D DIN 69880	X DIN 6358	S	Maximum R.P.M.	A	B	C	G	P DIN 5482	Order No.
30	16	32	3000	91.5	70	68	27	B15X12	DA30548216C
40	16	32	3000	68.5	55	86	27	B17X14	DA40548216C
40	22	32	3000	68.5	55	86	31	B17X14	DA40548222C
50	22	40	3000	117	81.5	96	31	B20X17	DA50548222C
50	27	40	3000	117	88.5	96	33	B20X17	DA50548227C



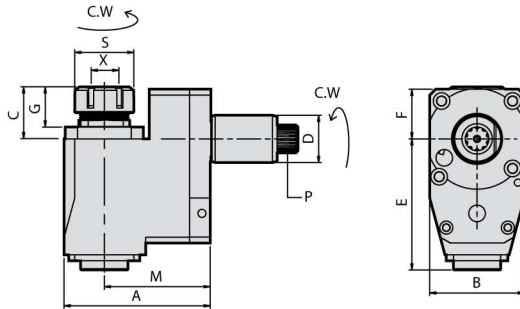
RADIAL DRILLING AND MILLING HEAD SET BACK

TYPE DIN 5482

MODE: BL
LEFT-HAND



MODE: BR
RIGHT-HAND



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included.

D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	M	P DIN 5482	Order No.
30	1-16 ER25	42	5000	1:1	95	60	42	75.5	31.5	28.5	69	B15X12	BR3054822569 BL3054822569
40	2-20 ER32	50	5000	1:1	124	80	44	110	42	34	90	B17X14	BR4054823290 BL4054823290
50	3-26 ER40	63	5000	1:1	129	86	49	112	45	39	90	B20X17	BR5054824090 BL5054824090
60	10-34 ER50	78	5000	1:1	147	104	83	118	54	42	102	B25X22	BR60548250106 BL60548250106

RADIAL TAPPING HEAD

D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	M	P DIN 5482	Order No.
30	1-10 ER16	30	3000	1:1	95	60	44	75.5	31.5	32	69	B15X12	TBR3054821669 TBL3054821669
40	1-13 ER20	35	3000	1:1	124	80	50	110	42	34	90	B17X14	TBR4054822090 TBL4054822090
50	2-16 ER25	42	3000	1:1	129	86	54	112	45	36	90	B20X17	TBR5054822590 TBL5054822590
60	2-20 ER32	50	3000	1:1	147	104	87	118	54	40	102	B25X22	TBR60548232106 TBL60548232106

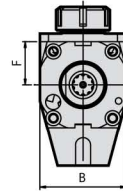
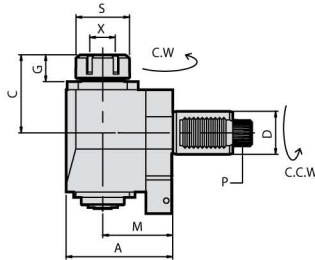




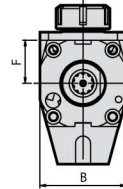
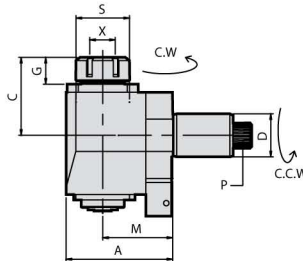
RADIAL DRILLING AND MILLING HEAD

TYPE DIN 5482

MODE FL
LEFT-HAND



MODE FR
RIGHT-HAND



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included.

D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	P DIN 5482	Order No.
30	1-16 ER25	42	5000	1:1	97	64	74.5	41	26	65	B15X12	FR3054822565 FL3054822565
30	1-16 ER25	42	5000	1:1	117	64	74.5	41	26	85	B15X12	FR3054822585 FL3054822585
40	2-20 ER32	50	5000	1:1	99	80	71	40	23	65	B17X14	FR4054823265 FL4054823265
40	2-20 ER32	50	5000	1:1	119	80	71	40	23	85	B17X14	FR4054823285 FL4054823285
50	3-26 ER40	63	5000	1:1	115	88	103	56	40	75	B20X17	FR5054824075 FL5054824075

RADIAL TAPPING HEAD

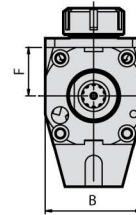
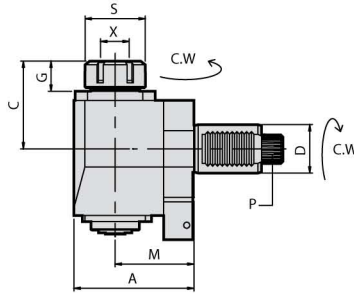
D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	P DIN 5482	Order No.
30	1-10 ER16	30	3000	1:1	97	64	75	41	30	65	B15X12	TFR3054821665 TFL3054821665
30	1-10 ER16	30	3000	1:1	117	64	75	41	30	85	B15X12	TFR3054821685 TFL3054821685
40	1-13 ER20	35	3000	1:1	99	80	70	40	25	65	B17X14	TFR4054822065 TFL4054822065
40	1-13 ER20	35	3000	1:1	119	80	70	40	25	85	B17X14	TFR4054822085 TFL4054822085
50	1-16 ER25	42	3000	1:1	115	88	103	56	42	75	B20X17	TFR5054822575 TFL5054822575



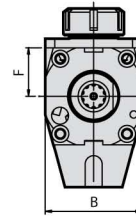
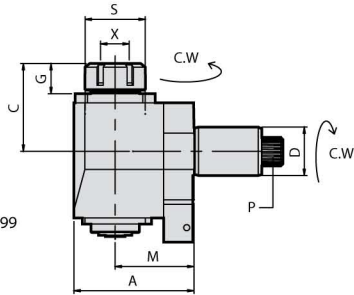
RADIAL DRILLING AND MILLING HEAD

TYPE DIN 5482

MODE: FL
LEFT-HAND



MODE: FR
RIGHT-HAND



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included.

D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	P DIN 5482	Order No.
40	2-20 ER32	50	5000	1:1	99	80	71	40	23	65	B17X14	N-FR4054823265 N-FL4054823265
40	2-20 ER32	50	5000	1:1	119	80	71	40	23	85	B17X14	N-FR4054823285 N-FL4054823285
50	3-26 ER40	63	5000	1:1	115	88	103	56	40	75	B20X17	N-FR5054824075 N-FL5054824075

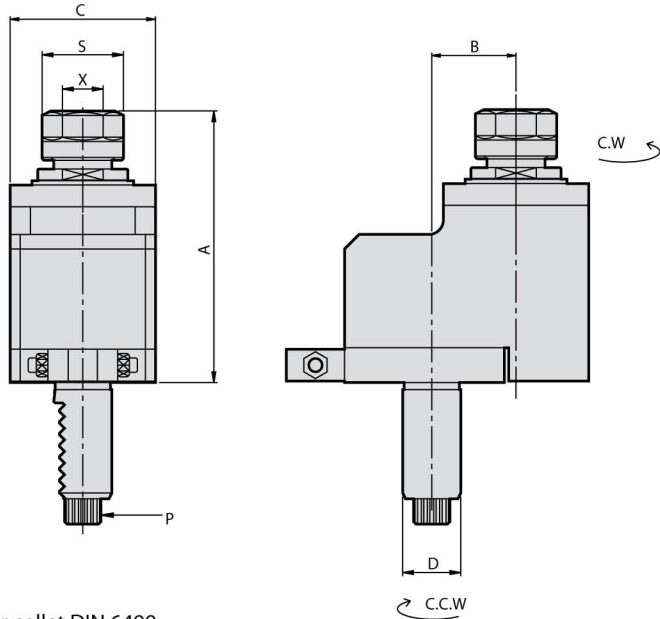
RADIAL TAPPING HEAD

D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	P DIN 5482	Order No.
40	1-13 ER20	35	3000	1:1	99	80	70	40	25	65	B17X14	N-TFR4054822065 N-TFL4054822065
40	1-13 ER20	35	3000	1:1	119	80	70	40	25	85	B17X14	N-TFR4054822085 N-TFL4054822085
50	1-16 ER25	42	3000	1:1	115	88	103	56	42	75	B20X17	N-TFR5054822575 N-TFL5054822575



**AXIAL DRILLING AND MILLING HEAD
 OFFSET**

TYPE DIN 5482



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included.

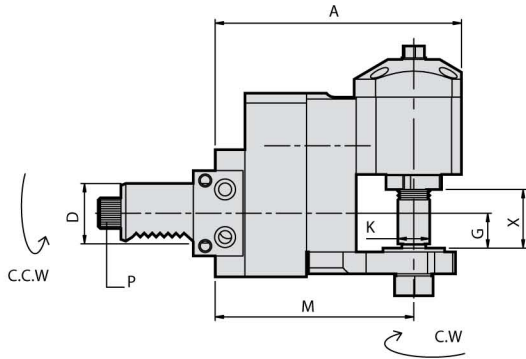
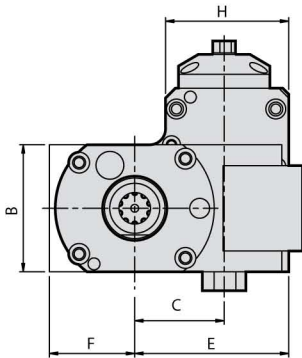
D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	P DIN 5482	Order No.
30	1-16 ER25	42	4000	1:1	100	29	60	B15X12	DA3054822529
30	1-16 ER25	42	8000	1:2	100	29	60	B15X12	DA3054822529/1
30	1-16 ER25	42	4000	1:2	125	50	75	B15X12	DA3054822550
40	2-20 ER32	50	4000	1:1	113	50	80	B17X14	DA4054823250
50	3-26 ER40	63	3000	1:1	124	65	86	B20X17	DA5054824065
60	10-34 ER50	78	3000	1:1	173.5	80	104	B25X22	DA6054825080
60	10-34 ER50	78	3000	1:1	173.5	100	104	B25X22	DA60548250100





**RADIAL MILLING HEAD
 DISK CUTTER UNITS**

TYPE DIN 5482



- External coolant supply

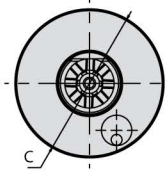
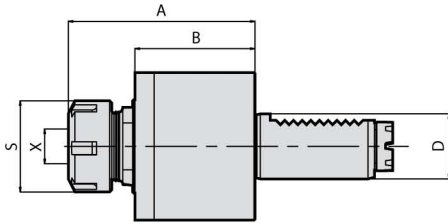
D DIN 69880	X Capacity	Maximum R.P.M.	i	A	B	C	E	F	G	H	K	M	P DIN 5482	Order No.
30	29	3000	3:1	124	64	45	77.5	34	18	62	16	100	B15X12	BR30548216C/3 BL30548216C/3
40	30.5	3000	3:1	127	70	45	77.5	34	18	62	16	103	B17X14	BR40548216C/3 BL40548216C/3

Other shank dimensions under development



AXIAL DRILLING AND MILLING HEAD

TYPE SPUR COUPLING-MT



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included.

- Power Transmission According To "BARUFFALDI"
- MT: Frontal Transmission Coupling Gear is Fixed Version

D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	Order No.
20	1-10 ER16	30	6000	1:1	76	48	58	DA20MT16
30	1-16 ER25	42	6000	1:1	86	55	68	DA30MT25
40	2-20 ER32	50	6000	1:1	89	55	86	DA40MT32
50	3-26 ER40	63	6000	1:1	118	81.5	96	DA50MT40
60	10-34 ER50	78	6000	1:1	140	88.5	116	DA60MT50

AXIAL TAPPING HEAD

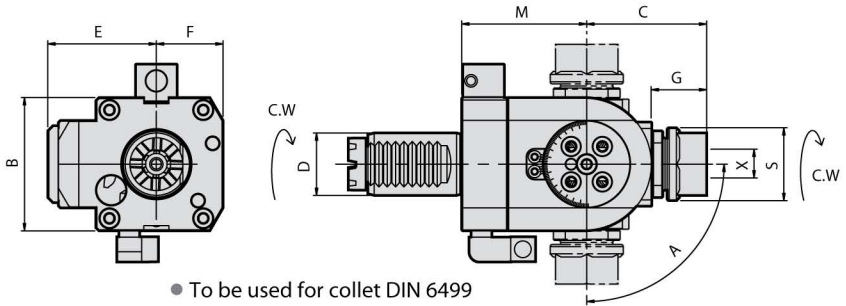
D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	Order No.
30	1-10 ER16	30	3000	1:1	85	55	68	TDA30MT16
40	1-13 ER20	35	3000	1:1	102	55	86	TDA40MT20
50	1-16 ER25	42	3000	1:1	122	81.5	96	TDA50MT25





ANGULAR HEAD

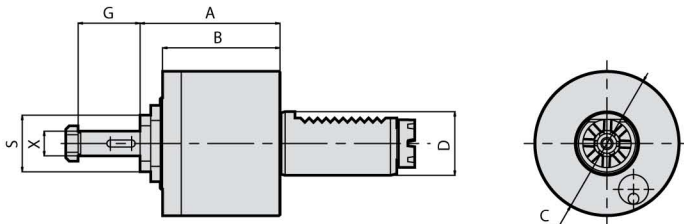
TYPE SPUR COUPLING-MT



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included.

D DIN 69880	X Capacity	S	Maximum R.P.M.	A	B	C	E	F	G	M	Order No.
30	1-13 ER20	35	4000	±90 μ	64	59	54	32	27	67	DA30MT20B
40	1-16 ER25	42	4000	±90 μ	76	65	65	38	29	70	DA40MT25B

AXIAL DRILLING AND MILLING HEAD



- To be used for cutter arbor according to DIN 6358
- External coolant and intermediate rings supply.

D DIN 69880	X DIN 6358	S	Maximum R.P.M.	A	B	C	G	Order No.
30	16	32	3000	91.5	55	68	27	DA30MT16C
40	16	32	3000	68.5	55	86	27	DA40MT16C
40	22	32	3000	68.5	55	86	31	DA40MT22C
50	22	40	3000	117	81.5	96	31	DA50MT22C
50	27	40	3000	117	81.5	96	33	DA50MT27C





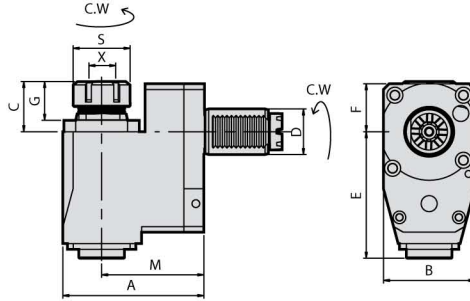
RADIAL DRILLING AND MILLING HEAD

TYPE SPUR COUPLING-MT

SET BACK

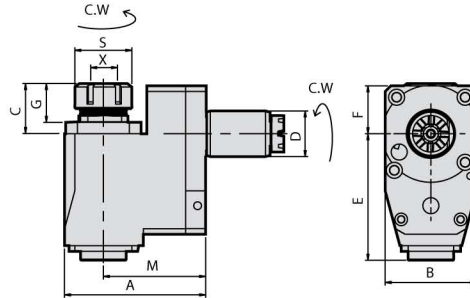
MODE: BL

LEFT-HAND



MODE: BR

RIGHT-HAND



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included.

D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	M	Order No.
20	1-10 ER16	30	5000	1:1	83	50	35	70	27	27	60	BR20MT1660 BL20MT1660
30	1-16 ER25	42	5000	1:1	95	60	42	76	32	29	69	BR30MT2569 BL30MT2569
40	2-20 ER32	50	5000	1:1	124	80	44	110	42	34	90	BR40MT3290 BL40MT3290
50	3-26 ER40	63	5000	1:1	129	86	49	112	45	39	90	BR50MT4090 BL50MT4090
60	10-34 ER50	78	5000	1:1	147	104	83	118	54	50	102	BR60MT50106 BL60MT50106

RADIAL TAPPING HEAD

D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	M	Order No.
30	1-10 ER16	30	3000	1:1	95	60	44	76	32	32	69	TBR30MT1669 TBL30MT1669
40	1-13 ER20	35	3000	1:1	124	80	50	110	42	34	90	TBR40MT2090 TBL40MT2090
50	2-16 ER25	42	3000	1:1	129	86	54	112	45	36	90	TBR50MT2590 TBL50MT2590
60	2-20 ER32	50	3000	1:1	147	104	83	118	54	56	102	TBR60MT32106 TBL60MT32106

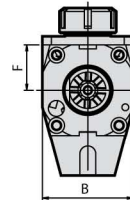
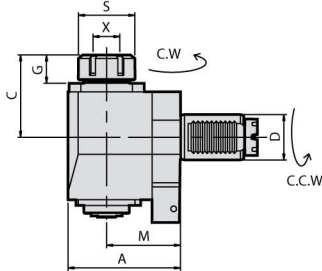




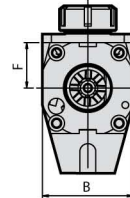
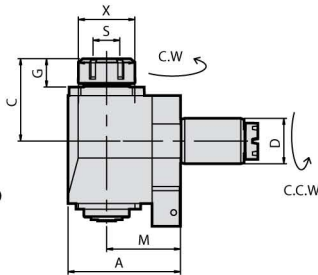
RADIAL DRILING AND MILLING HEAD

TYPE SPUR COUPLING-MT

MODE FL
LEFT-HAND



MODE FR
RIGHT-HAND



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included.

D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	Order No.
20	1-10 ER15	30	5000	1:1	67	50	63	27	24.5	45	FR20MT1645 FL20MT1645
20	1-10 ER16	30	5000	1:1	92	50	63	27	24.5	70	FL20MT1670
30	1-16 ER25	42	5000	1:1	97	64	74.5	41	26	65	FR30MT2565 FL30MT2565
30	1-16 ER25	42	5000	1:1	117	64	74.5	41	26	85	FR30MT2585 FL30MT2585
40	2-20 ER32	50	5000	1:1	99	80	71	40	23	65	FR40MT3265 FL40MT3265
40	2-20 ER32	50	5000	1:1	119	80	71	40	23	85	FR40MT3285 FL40MT3285
40	2-20 ER32	50	5000	1:1	134	80	71	40	23	100	FR40MT32100 FL40MT32100
50	3-26 ER40	60	5000	1:1	115	88	103	56	40	75	FR50MT4075 FL50MT4075

RADIAL TAPPING HEAD

D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	Order No.
30	1-10 ER16	30	3000	1:1	97	64	75	41	30	65	TFR30MT1665 TFL30MT1665
30	1-10 ER16	30	3000	1:1	117	64	75	41	30	85	TFR30MT1685 TFL30MT1685
40	1-13 ER20	35	3000	1:1	99	80	70	40	25	65	TFR40MT2065 TFL40MT2065
40	1-13 ER20	35	3000	1:1	119	80	70	40	25	85	TFR40MT2085 TFL40MT2085
50	1-16 ER25	42	3000	1:1	115	88	103	56	42	75	TFR50MT2575 TFL50MT2575

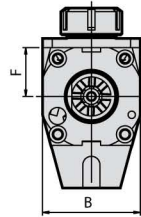
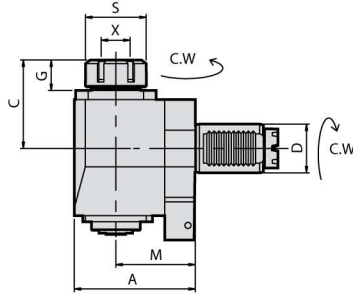




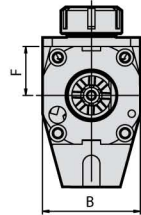
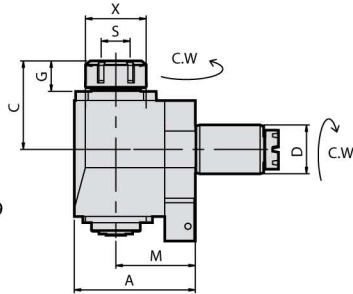
RADIAL DRILLING AND MILLING HEAD

TYPE SPUR COUPLING-MT

MODE FL
LEFT-HAND



MODE FR
RIGHT-HAND



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included.

D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	Order No.
40	2-20 ER32	50	5000	1:1	99	80	71	40	23	65	N-FR40MT3265 N-FL40MT3265
40	2-20 ER32	50	5000	1:1	119	80	71	40	23	85	N-FR40MT3285 N-FL40MT3285
40	2-20 ER32	50	5000	1:1	134	80	71	40	23	100	N-FR40MT32100 N-FL40MT32100
50	3-26 ER40	60	5000	1:1	115	88	103	56	40	75	N-FR50MT4075 N-FL50MT4075

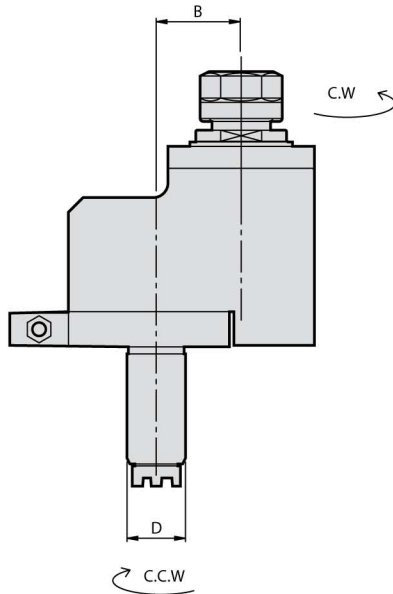
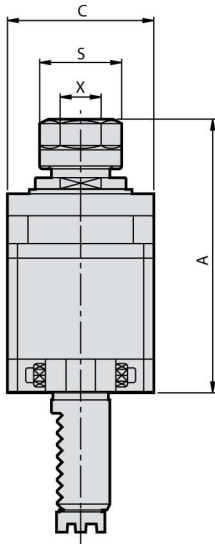
RADIAL TAPPING HEAD

D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	Order No.
40	1-13 ER20	35	3000	1:1	99	80	70	40	25	65	N-TFR40MT2065 N-TFL40MT2065
40	1-13 ER20	35	3000	1:1	119	80	70	40	25	85	N-TFR40MT2085 N-TFL40MT2085
50	1-16 ER25	42	3000	1:1	115	88	103	56	42	75	N-TFR50MT2575 N-TFL50MT2575



**AXIAL DRILLING AND MILLING HEAD
 OFFSET**

TYPE SPUR COUPLING-MT



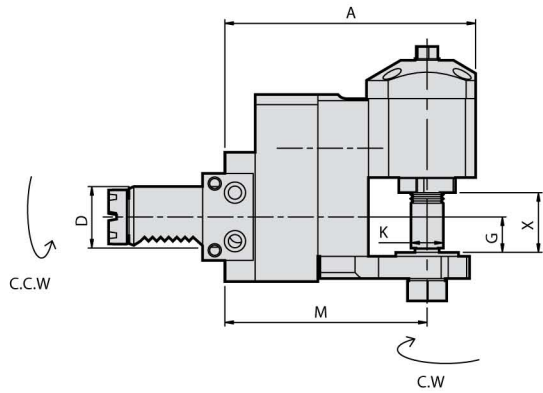
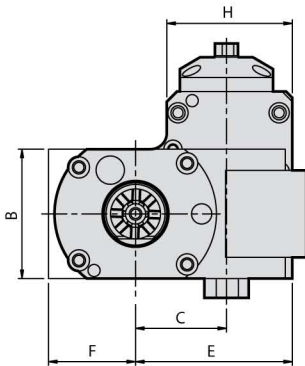
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included.

D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	Order No.
20	1-10 ER16	30	4000	1:1	93.5	29	50	DA20MT1629
30	1-16 ER25	42	4000	1:1	100	29	60	DA30MT2529
30	2-20 ER32	42	8000	1:2	100	29	60	DA30MT2529/1
40	2-20 ER32	50	4000	1:1	113	50	80	DA40MT3250
50	3-26 ER40	63	3000	1:1	124	65	86	DA50MT4065
60	10-34 ER50	78	3000	1:1	173.5	65	104	DA60MT5065
60	10-34 ER50	78	3000	1:1	173.5	80	104	DA60MT5080
60	10-34 ER50	78	3000	1:1	173.5	100	104	DA60MT50100



RADIAL MILLING HEAD
 DISK CUTTER UNITS

TYPE SPUR COUPLING-MT



- External coolant supply

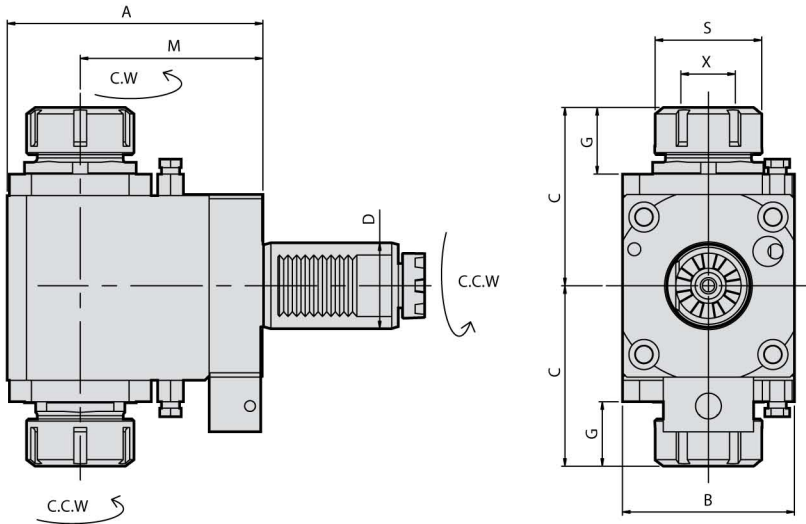
D DIN 69880	X Capacity	Maximum R.P.M.	i	A	B	C	E	F	G	H	K	M	Order No.
30	29	3000	3:1	124	64	45	77.5	34	18	62	16	100	BR30MT16C/3 BL30MT16C/3
40	30.5	3000	3:1	127	70	45	77.5	34	18	62	16	103	BR40MT16C/3 BL40MT16C/3

Other shank dimensions under development



RADIAL DRILING AND MILLING HEAD DOUBLE COLLETS

TYPE SPUR COUPLING-MT



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included.

D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	G	M	Order No.
30	1-16 ER25	42	4000	1:1	112	64	66	27	85	DF30MT2585D
40	2-20 ER32	50	4000	1:1	119	80	82	28	85	DF40MT3285D
40	2-20 ER32	50	4000	1:1	134	80	82	28	100	DF40MT32100D

Other shank dimensions under development

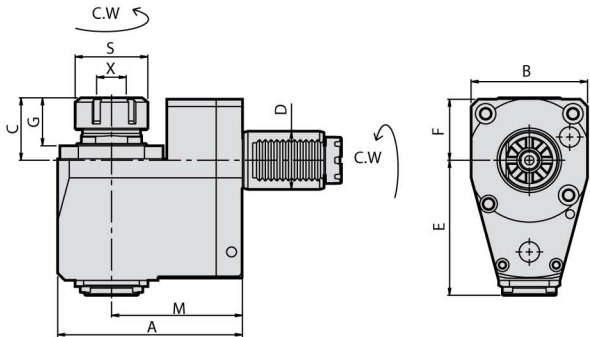


RADIAL DRILLING AND MILLING HEAD
 SET BACK

TYPE SPUR COUPLING-MT

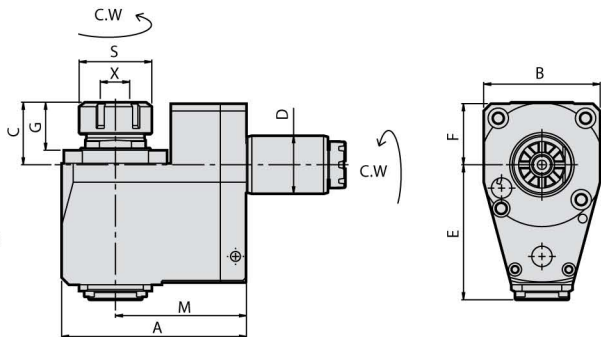
MODE: BL

LEFT-HAND



MODE: BR

RIGHT-HAND



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included.

D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	M	Order No.
40	2-20 ER32	50	5000	1:1	127	80	44	92.8	42	34	90	SHBR40MT3290 SHBL40MT3290

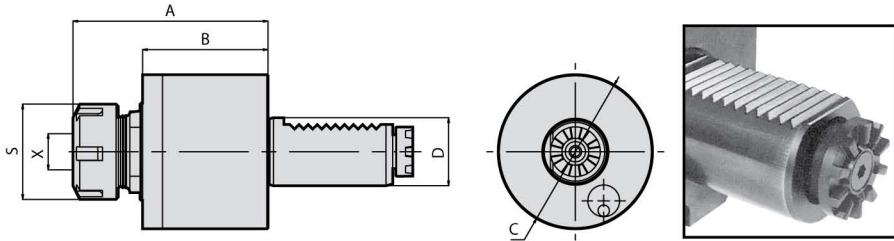
RADIAL TAPPING HEADS

D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	M	Order No.
40	1-13 ER20	35	3000	1:1	127	80	58	92.8	42	48	90	SHTBR40MT2090 SHTBL40MT2090



AXIAL DRILLING AND MILLING HEAD

TYPE SPUR COUPLING-IT



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included.

- Power Transmission According To "DUPLOMATIC"
- IT: Fron-side Coupling is Elastic Stroke

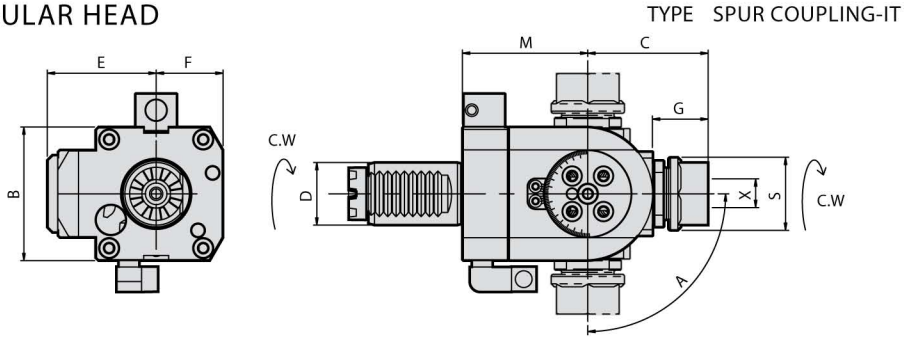
D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	Order No.
30	1-16 ER25	42	6000	1:1	86	55	68	DA30IT25
40	2-20 ER32	50	6000	1:1	89	55	86	DA40IT32

AXIAL TAPPING HEAD

D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	Order No.
30	1-10 ER16	30	3000	1:1	85	55	68	TDA30IT16
40	1-13 ER20	35	3000	1:1	102	55	86	TDA40IT20



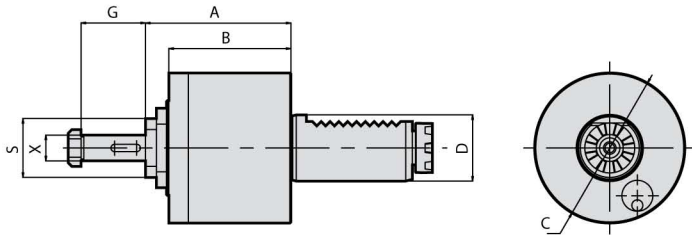
ANGULAR HEAD



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included.

D DIN 69880	X Capacity	S	Maximum R.P.M.	A	B	C	E	F	G	M	Order No.
30	1-13 ER20	35	4000	±90°	64	59	54	32	27	67	DA30IT20B
40	1-16 ER25	42	4000	±90°	76	65	65	38	29	70	DA40IT25B

AXIAL DRILLING AND MILLING HEAD



- To be used for cutter arbor according to DIN 6358
- External coolant and intermediate rings supply.

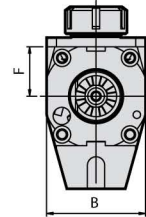
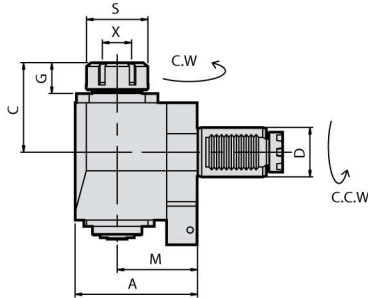
D DIN 69880	X DIN 6358	S	Maximum R.P.M.	A	B	C	G	Order No.
30	16	32	3000	91.5	55	68	27	DA30IT16C
40	16	32	3000	68.5	55	86	27	DA40IT16C
40	22	32	3000	68.5	55	86	31	DA40IT22C



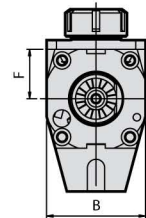
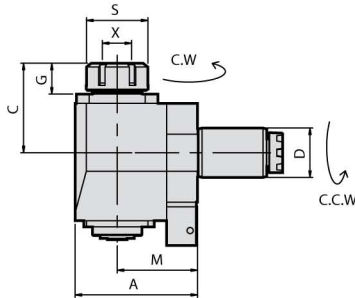
RADIAL DRILING AND MILLING HEAD

TYPE SPUR COUPLING-IT

MODE FL
LEFT-HAND



MODE FR
RIGHT-HAND



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included.

D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	Order No.
30	1-15 ER25	42	5000	1:1	97	64	74.5	41	26	65	FR30IT2565 FL30IT2565
30	1-16 ER25	42	5000	1:1	117	64	74.5	41	26	85	FR30IT2585 FL30IT2585
40	2-20 ER32	50	5000	1:1	99	80	71	40	23	65	FR40IT3265 FL40IT3265
40	2-20 ER32	50	5000	1:1	119	80	71	40	23	85	FR40IT3285 FL40IT3285
40	2-20 ER32	50	5000	1:1	134	80	71	40	23	100	FR40IT32100 FL40IT32100

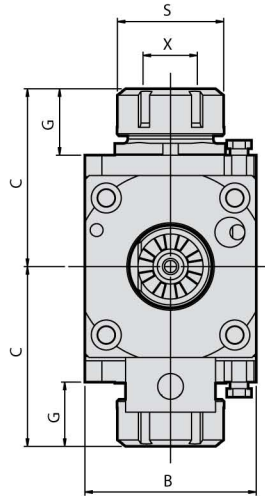
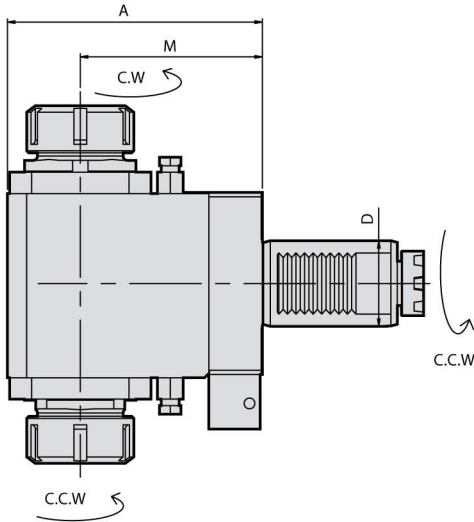
RADIAL TAPPING HEAD

D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	Order No.
30	1-10 ER16	30	3000	1:1	97	64	75	41	30	65	TFR30IT1665 TFL30IT1665
30	1-10 ER16	30	3000	1:1	117	64	75	41	30	85	TFR30IT1685 TFL30IT1685
40	1-13 ER20	35	3000	1:1	99	80	70	40	25	65	TFR40IT2065 TFL40IT2065
40	1-13 ER20	35	3000	1:1	119	80	70	40	25	85	TFR40IT2085 TFL40IT2085



**RADIAL DRILLING AND MILLING HEAD
 DOUBLE COLLETS**

TYPE SPUR COUPLING-IT



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included.

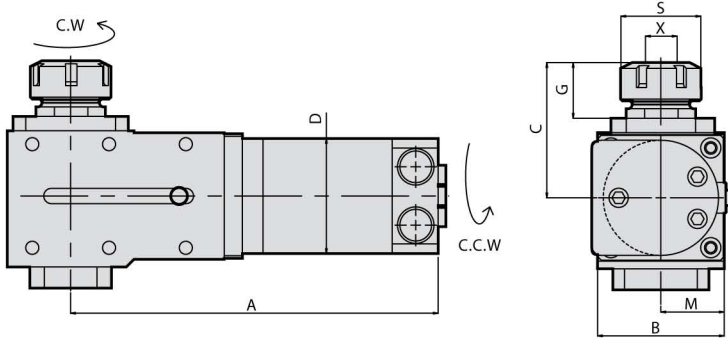
D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	G	M	Order No.
30	1-16 ER25	42	4000	1:1	112	64	66	26.5	85	DF30IT2585D
40	2-20 ER32	50	4000	1:1	119	80	82	28	85	DF40IT3285D
40	2-20 ER32	50	4000	1:1	134	80	82	28	100	DF40IT32100D

Other shank dimensions under development



RADIAL DRILLING AND MILLING HEAD

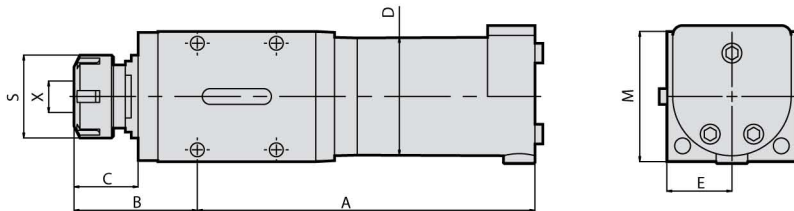
TYPE DIN



- To be used for collet DIN 6499
- Collet is not included.

D	X Capacity	S	Maximum R.P.M.	A	B	C	G	M	Order No.
60	1-16 ER25	42	4000	191.5	66	70.5	29	33	DF66ER25

AXIAL DRILLING AND MILLING HEAD



- To be used for collet DIN 6499
- Collet is not included.

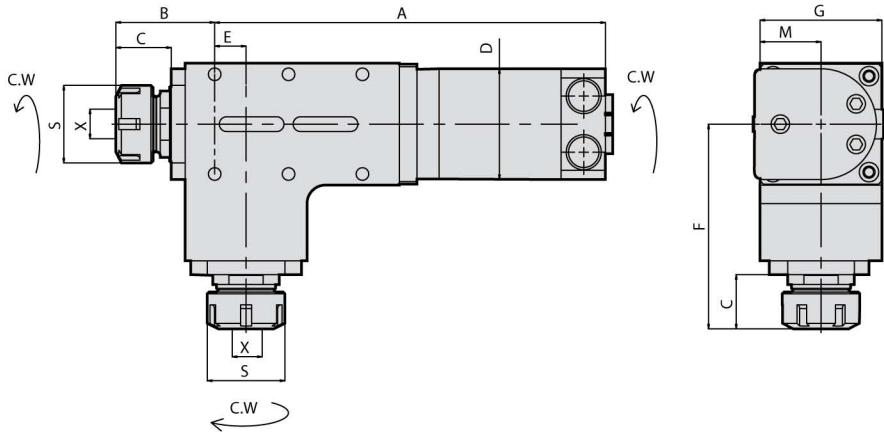
D	X Capacity	S	Maximum R.P.M.	A	B	C	E	M	Order No.
60	1-16 ER25	42	6000	171	62.5	32	66	33	DA66ER25



RADIAL AXIAL DRILING AND MILLING HEAD

TYPE

DIN



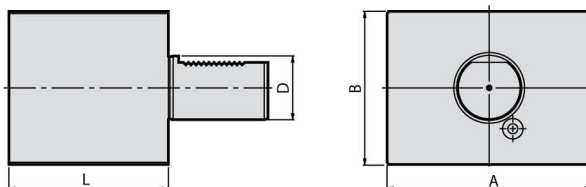
- To be used for collet DIN 6499
- Collet is not included.

D	X Capacity	S	Maximum R.P.M.	A	B	C	E	F	G	M	Order No.
60	1-16 ER25	42	4000	194.5	53.5	30	17	111.5	66	33	DF662ER25



MATERIAL

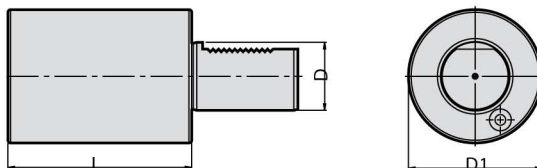
TYPE A1



D DIN 69880	A	B	L	Order No.
20	100	60	65	A1-20-65
30	130	76	85	A1-30-85
40	151	96	100	A1-40-100
50	160	120	125	A1-50-125
60	165	125	160	A1-60-160

VDI MATERIAL

TYPE A2



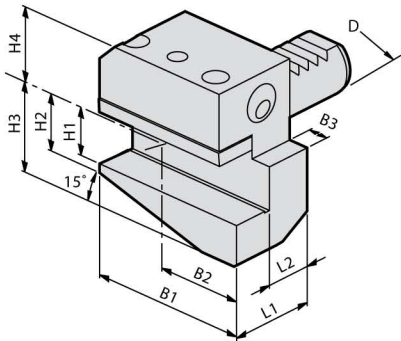
D DIN 69880	D1	L	Order No.
20	50	70	A2-20-70
30	68	100	A2-30-100
30	68	240	A2-30-240
40	83	120	A2-40-120
40	83	320	A2-40-320
50	98	135	A2-50-135
50	98	400	A2-50-400
60	123	150	A2-60-150
60	123	480	A2-60-480





DIN 69880 RADIAL STATIC HOLDER

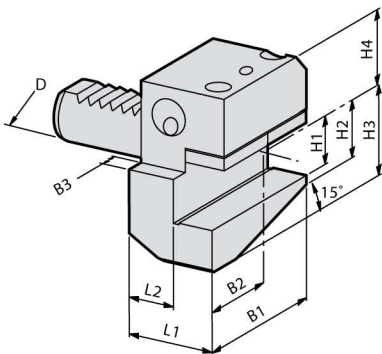
TYPE B1 B2



B1

- Right-hand
- Short
- External Coolant Supply

D	B1	B2	B3	H1	H2	H3	H4	L1	L2	Order No.
20	55	30	7	16(5/8")	19	30	25	30	16	B1-20x16(5/8")
30	70	35	10	20(3/4")	26	38	28	40	22	B1-30x20(3/4")
40	85	42.5	12.5	25(1")	35	48	32.5	44	22	B1-40x25(1")
50	100	50	16	32(1-1/4")	42	60	35	55	30	B1-50x32(1-1/4")
60	125	62.5	16	32(1-1/4")	46	62.5	42.5	60	30	B1-60x32(1-1/4")



B2

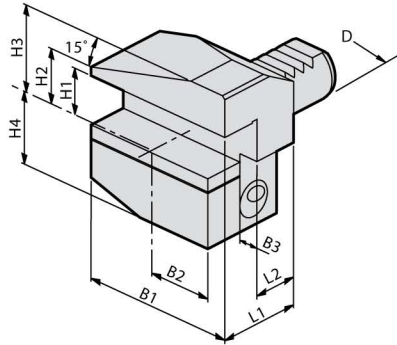
- Left-hand
- Short
- External Coolant Supply

D	B1	B2	B3	H1	H2	H3	H4	L1	L2	Order No.
20	55	30	7	16(5/8")	19	30	25	30	16	B2-20x16(5/8")
30	70	35	10	20(3/4")	26	38	28	40	22	B2-30x20(3/4")
40	85	42.5	12.5	25(1")	35	48	32.5	44	22	B2-40x25(1")
50	100	50	16	32(1-1/4")	42	60	35	55	30	B2-50x32(1-1/4")
60	125	62.5	16	32(1-1/4")	46	62.5	42.5	60	30	B2-60x32(1-1/4")



DIN 69880 RADIAL STATIC HOLDER

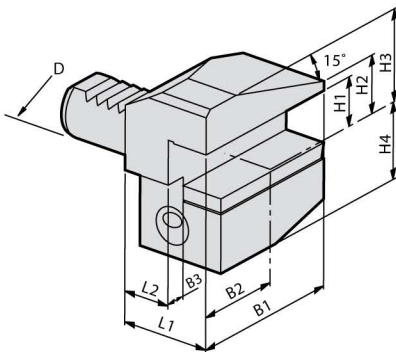
TYPE B3 B4



B3

- Right-hand
- Short
- External Coolant Supply

D	B1	B2	B3	H1	H2	H3	H4	L1	L2	Order No.
20	55	30	7	16(5/8")	19	30	25	30	16	B3-20x16(5/8")
30	70	35	10	20(3/4")	22	38	35	40	22	B3-30x20(3/4")
40	85	42.5	12.5	25(1")	30	48	42.5	44	22	B3-40x25(1")
50	100	50	16	32(1-1/4")	35	60	50	55	30	B3-50x32(1-1/4")
60	125	62.5	16	32(1-1/4")	42.5	62.5	42.5	60	30	B3-60x32(1-1/4")



B4

- Left-hand
- Short
- External Coolant Supply

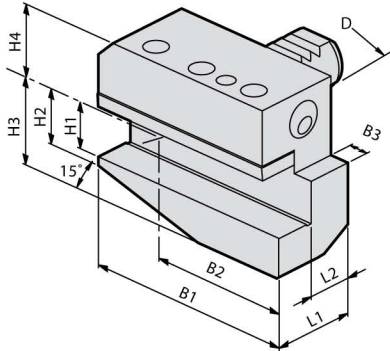
D	B1	B2	B3	H1	H2	H3	H4	L1	L2	Order No.
20	55	30	7	16(5/8")	19	30	25	30	16	B4-20x16(5/8")
30	70	35	10	20(3/4")	22	38	35	40	22	B4-30x20(3/4")
40	85	42.5	12.5	25(1")	30	48	42.5	44	22	B4-40x25(1")
50	100	50	16	32(1-1/4")	35	60	50	55	30	B4-50x32(1-1/4")
60	125	62.5	16	32(1-1/4")	42.5	62.5	42.5	60	30	B4-60x32(1-1/4")





DIN 69880 RADIAL STATIC HOLDER

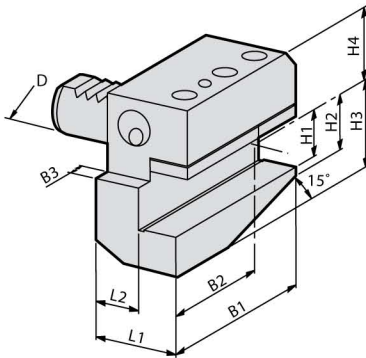
TYPE B5 B6



B5

- Right-hand
- Long
- External Coolant Supply

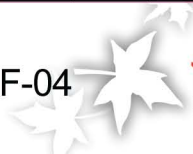
D	B1	B2	B3	H1	H2	H3	H4	L1	L2	Order No.
20	75	50	7	16(5/8")	19	30	25	30	16	B5-20x16(5/8")
30	100	65	10	20(3/4")	26	38	28	40	22	B5-30x20(3/4")
40	118	76	12.5	25(1")	35	48	32.5	44	22	B5-40x25(1")
50	130	80	16	32(1-1/4")	42	60	35	55	30	B5-50x32(1-1/4")
60	145	83	16	32(1-1/4")	46	62.5	42.5	60	30	B5-60x32(1-1/4")



B6

- Left-hand
- Long
- External Coolant Supply

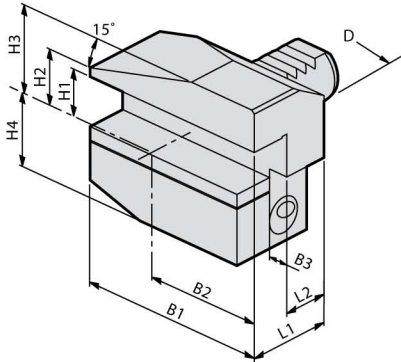
D	B1	B2	B3	H1	H2	H3	H4	L1	L2	Order No.
20	75	50	7	16(5/8")	19	30	25	30	16	B6-20x16(5/8")
30	100	65	10	20(3/4")	26	38	28	40	22	B6-30x20(3/4")
40	118	76	12.5	25(1")	35	48	32.5	44	22	B6-40x25(1")
50	130	80	16	32(1-1/4")	42	60	35	55	30	B6-50x32(1-1/4")
60	145	83	16	32(1-1/4")	46	62.5	42.5	60	30	B6-60x32(1-1/4")





DIN 69880 RADIAL STATIC HOLDER

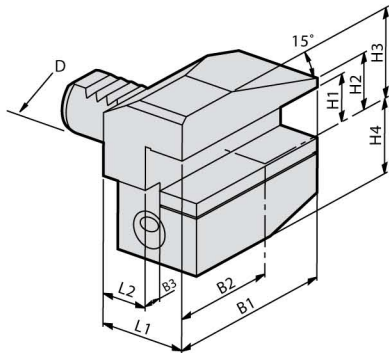
TYPE B7 B8



B7

- Right-hand
- Long
- External Coolant Supply

D	B1	B2	B3	H1	H2	H3	H4	L1	L2	Order No.
20	75	50	7	16(5/8")	19	30	25	30	16	B7-20x16(5/8")
30	100	65	10	20(3/4")	22	38	35	40	22	B7-30x20(3/4")
40	118	75.5	12.5	25(1")	30	48	42.5	44	22	B7-40x25(1")
50	130	80	16	32(1-1/4")	35	60	50	55	30	B7-50x32(1-1/4")
60	145	82.5	16	32(1-1/4")	42.5	62.5	42.5	60	30	B7-60x32(1-1/4")



B8

- Left-hand
- Long
- External Coolant Supply

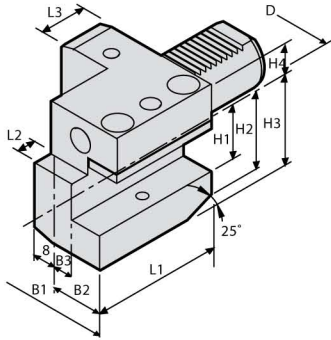
D	B1	B2	B3	H1	H2	H3	H4	L1	L2	Order No.
20	75	50	7	16(5/8")	19	30	25	30	16	B8-20x16(5/8")
30	100	65	10	20(3/4")	22	38	35	40	22	B8-30x20(3/4")
40	118	75.5	12.5	25(1")	30	48	42.5	44	22	B8-40x25(1")
50	130	80	16	32(1-1/4")	35	60	50	55	30	B8-50x32(1-1/4")
60	145	82.5	16	32(1-1/4")	42.5	62.5	42.5	60	30	B8-60x32(1-1/4")





DIN 69880 AXIAL STATIC HOLDER

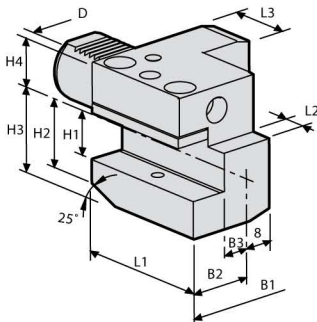
TYPE C1 C2



C1

- Right-hand
- External Coolant Supply

D	B1	B2	B3	H1	H2	H3	H4	L1	L2	L3	Order No.
20	65	40	26	16(5/8")	23	30	25	50	7	30	C1-20x16(5/8")
30	70	35	17	20(3/4")	28	38	28	70	10	30	C1-30x20(3/4")
40	85	42.5	21	25(1")	-	48	32.5	85	12.5	30	C1-40x25(1")
50	100	50	26	32(1-1/4")	-	60	35	100	16	40	C1-50x32(1-1/4")
60	125	62.5	33	32(1-1/4")	-	62.5	42.5	125	16	40	C1-60x32(1-1/4")



C2

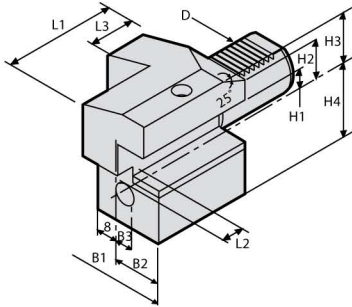
- Left-hand
- External Coolant Supply

D	B1	B2	B3	H1	H2	H3	H4	L1	L2	L3	Order No.
20	65	40	26	16(5/8")	23	30	25	50	7	30	C2-20x16(5/8")
30	76	41	23	20(3/4")	28	38	28	70	10	30	C2-30x20(3/4")
40	90	47.5	25.5	25(1")	-	48	32.5	85	12.5	30	C2-40x25(1")
50	105	55	30.5	32(1-1/4")	-	60	35	100	16	40	C2-50x32(1-1/4")
60	125	62.5	33	32(1-1/4")	-	62.5	42.5	125	16	40	C2-60x32(1-1/4")



DIN 69880 AXIAL STATIC HOLDER

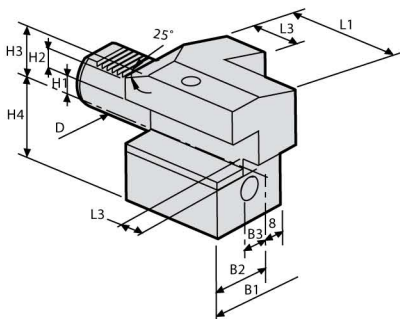
TYPE C3 C4



C3

- Right-hand
- External Coolant Supply

D	B1	B2	B3	H1	H2	H3	H4	L1	L2	L3	Order No.
20	65	40	26	16(5/8")	23	30	25	50	7	30	C3-20x16(5/8")
30	70	35	17	20(3/4")	28	38	35	70	10	30	C3-30x20(3/4")
40	85	42.5	21	25(1")	-	48	42.5	85	12.5	30	C3-40x25(1")
50	100	50	26	32(1-1/4")	-	60	50	100	16	40	C3-50x32(1-1/4")
60	125	62.5	33	32(1-1/4")	-	62.5	62.5	125	16	40	C3-60x32(1-1/4")



C4

- Left-hand
- External Coolant Supply

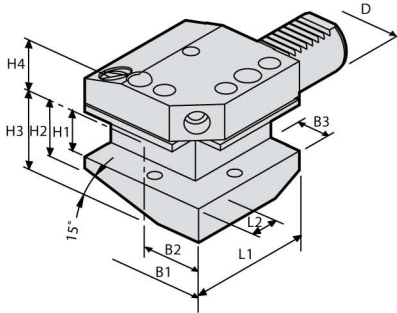
D	B1	B2	B3	H1	H2	H3	H4	L1	L2	L3	Order No.
20	65	40	26	16(5/8")	23	30	25	50	7	30	C4-20x16(5/8")
30	76	41	23	20(3/4")	28	38	35	70	10	30	C4-30x20(3/4")
40	90	47.5	25.5	25(1")	-	48	42.5	85	12.5	30	C4-40x25(1")
50	105	55	30.5	32(1-1/4")	-	60	50	100	16	40	C4-50x32(1-1/4")
60	125	62.5	33	32(1-1/4")	-	62.5	62.5	125	16	40	C4-60x32(1-1/4")





DIN 69880 AXIAL-RADIAL STATIC HOLDER

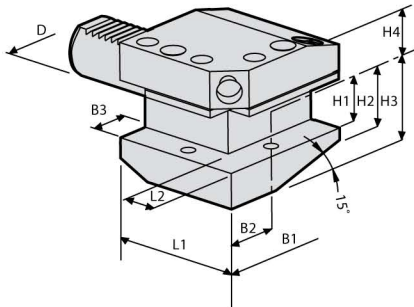
TYPE CB1 CB2



CB1

- Right-hand
- External Coolant Supply

D	B1	B2	B3	H1	H2	H3	H4	L1	L2	Order No.
20	65	40	14	16(5/8")	19	30	25	50	14	CB1-20x16(5/8")
30	74	40	18	20(3/4")	26	38	28	70	18	CB1-30x20(3/4")
40	85	45	22	25(1")	35	48	32.5	100	22	CB1-40x25(1")
50	105	55	25	32(1-1/4")	42	60	35	120	25	CB1-50x32(1-1/4")
60	125	62.5	30	32(1-1/4")	46	62.5	42.5	135	30	CB1-60x32(1-1/4")



CB2

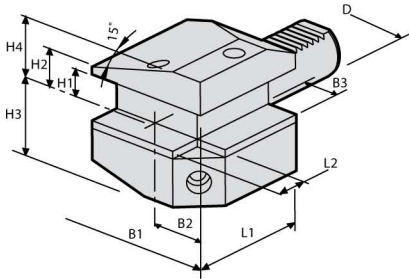
- Left-hand
- External Coolant Supply

D	B1	B2	B3	H1	H2	H3	H4	L1	L2	Order No.
20	65	40	14	16(5/8")	19	30	25	50	14	CB2-20x16(5/8")
30	74	40	18	20(3/4")	26	38	28	70	18	CB2-30x20(3/4")
40	85	47	22	25(1")	35	48	32.5	100	22	CB2-40x25(1")
50	105	55	25	32(1-1/4")	42	60	35	120	25	CB2-50x32(1-1/4")
60	125	62.5	30	32(1-1/4")	46	62.5	42.5	135	30	CB2-60x32(1-1/4")



DIN 69880 AXIAL-RADIAL STATIC HOLDER

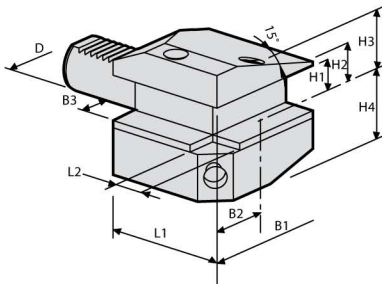
TYPE CB3 CB4



CB3

- Right-hand
- External Coolant Supply

D	B1	B2	B3	H1	H2	H3	H4	L1	L2	Order No.
20	65	40	14	16(5/8")	19	30	25	50	14	CB3-20x16(5/8")
30	74	40	18	20(3/4")	22	38	28	70	18	CB3-30x20(3/4")
40	85	45	22	25(1")	30	48	32.5	100	22	CB3-40x25(1")
50	105	55	25	32(1-1/4")	35	60	35	120	25	CB3-50x32(1-1/4")
60	125	62.5	30	32(1-1/4")	42.5	62.5	42.5	135	30	CB3-60x32(1-1/4")



CB4

- Left-hand
- External Coolant Supply

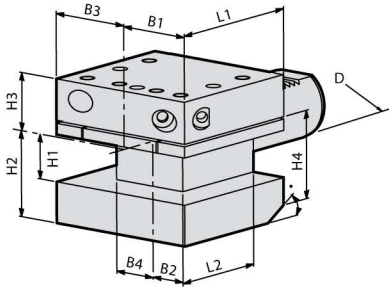
D	B1	B2	B3	H1	H2	H3	H4	L1	L2	Order No.
20	65	40	14	16(5/8")	19	30	25	50	14	CB4-20x16(5/8")
30	74	40	18	20(3/4")	22	38	28	70	18	CB4-30x20(3/4")
40	85	47	22	25(1")	30	48	32.5	100	22	CB4-40x25(1")
50	105	55	25	32(1-1/4")	35	60	35	120	25	CB4-50x32(1-1/4")
60	125	62.5	30	32(1-1/4")	42.5	62.5	42.5	135	30	CB4-60x32(1-1/4")





DIN 69880 AXIAL-RADIAL STATIC HOLDER

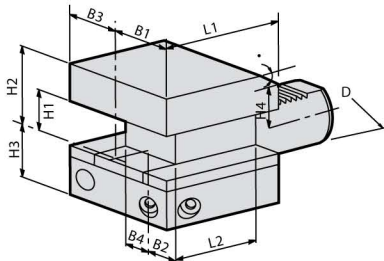
TYPE D1 D2



D1

- Right-hand
- External Coolant Supply

D	B1	B2	B3	B4	H1	H2	H3	H4	L1	L2	•	Order No.
30	35	17	41	23	20(3/4")	38	35	30	60	42	25 \dot{u}	D1-30x20(3/4")
40	42.5	21	47.5	25.5	25(1")	48	42.5	40	72	50	25 \dot{u}	D1-40x25(1")
50	50	26	55	30.5	32(1-1/4")	60	50	-	85	60	-	D1-50x32(1-1/4")
60	57.5	33	57.5	33	32(1-1/4")	62.5	62.5	-	110	85	-	D1-60x32(1-1/4")



D2

- Left-hand
- External Coolant Supply

D	B1	B2	B3	B4	H1	H2	H3	H4	L1	L2	•	Order No.
30	35	17	41	23	20(3/4")	38	35	30	60	42	25 \dot{u}	D2-30x20(3/4")
40	42.5	21	47.5	25.5	25(1")	48	42.5	40	72	50	25 \dot{u}	D2-40x25(1")
50	50	26	55	30.5	32(1-1/4")	60	50	-	85	60	-	D2-50x32(1-1/4")
60	57.5	33	57.5	33	32(1-1/4")	62.5	62.5	-	110	85	-	D2-60x32(1-1/4")



IMTE

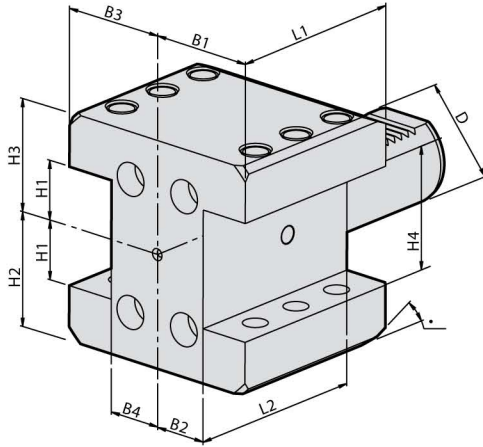
INTERNATIONAL MACHINE TOOLS & EQUIPMENT INC.

CNC and conventional machine tools distributors

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DIN 69880 AXIAL STATIC HOLDER

TYPE D12



D12

- Right-hand
- External Coolant Supply

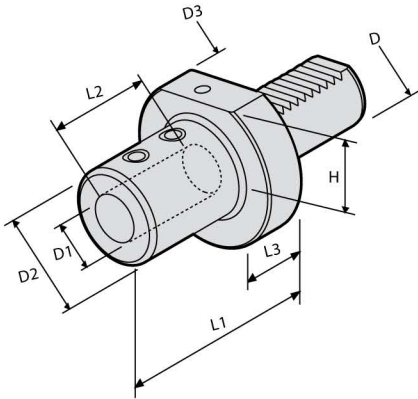
D	B1	B2	B3	B4	H1	H2	H3	H4	L1	α	Order No.
30	38	20	38	20	20(3/4")	40	40	32	72	25°	D12-30x20(3/4")
40	46	24	46	24	25(1")	48	48	42	85	25°	D12-40x25(1")





DIN 69880 STATIC HOLDER

TYPE E1



E1

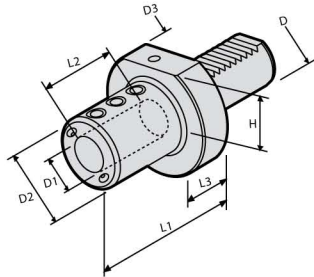
- U Drills
- Internal Coolant Supply

D	D1	D2	D3	H	L1	L2	L3	Order No.
20	20(3/4")	40	50	-	67	57	18	E1-20x20(3/4")
20	25(1")	45	50	-	71	59	18	E1-20x25(1")
30	20(3/4")	40	68	28	67	54	22	E1-30x20(3/4")
30	25(1")	45	68	28	71	59	22	E1-30x25(1")
30	32(1-1/4")	52	68	28	75	63	22	E1-30x32(1-1/4")
40	20(3/4")	40	83	32.5	67	54	22	E1-40x20(3/4")
40	25(1")	45	83	32.5	75	59	22	E1-40x25(1")
40	32(1-1/4")	52	83	32.5	75	63	22	E1-40x32(1-1/4")
40	40(1-1/2")	60	83	32.5	90	73	22	E1-40x40(1-1/2")
50	20(3/4")	40	98	35	67	54	30	E1-50x20(3/4")
50	25(1")	45	98	35	80	59	30	E1-50x25(1")
50	32(1-1/4")	52	98	35	80	63	30	E1-50x32(1-1/4")
50	40(1-1/2")	60	98	35	90	73	30	E1-50x40(1-1/2")
50	50(2")	70	98	35	100	83	30	E1-50x50(2")



DIN 69880 STATIC HOLDER

TYPE E2



E2

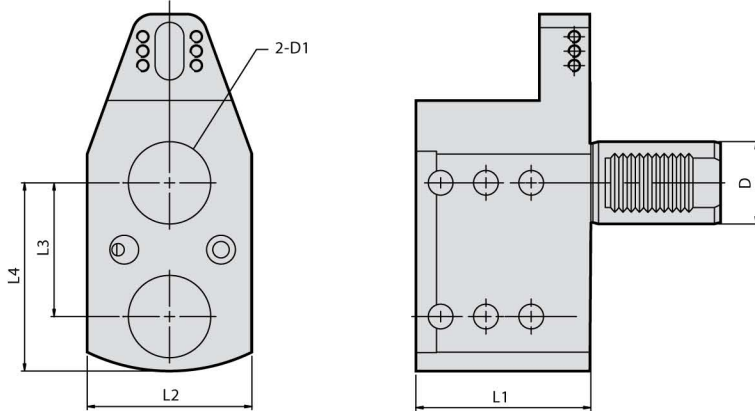
- Boring Bar Holder
- External Coolant Supply

D	D1	D2	D3	H	L1	L2	L3	Order No.
20	8(5/16")	40	50	-	50	41	18	E2-20x8(5/16")
20	10(3/8")	40	50	-	50	41	18	E2-20x10(3/8")
20	12(1/2")	40	50	-	50	41	18	E2-20x12(1/2")
20	16(5/8")	40	50	-	50	41	18	E2-20x16(5/8")
20	20(3/4")	50	50	-	50	41	-	E2-20x20(3/4")
20	25(1")	50	50	-	60	41	-	E2-20x25(1")
30	8(5/16")	50	68	28	60	51	22	E2-30x8(5/16")
30	10(3/8")	50	68	28	60	51	22	E2-30x10(3/8")
30	12(1/2")	50	68	28	60	51	22	E2-30x12(1/2")
30	16(5/8")	55	68	28	60	51	22	E2-30x16(5/8")
30	20(3/4")	58	68	28	60	51	22	E2-30x20(3/4")
30	25(1")	62	68	28	60	51	22	E2-30x25(1")
30	32(1-1/4")	68	68	28	75	61	-	E2-30x32(1-1/4")
40	10(3/8")	50	83	32.5	75	61	22	E2-40x10(3/8")
40	12(1/2")	50	83	32.5	75	61	22	E2-40x12(1/2")
40	16(5/8")	56	83	32.5	75	61	22	E2-40x16(5/8")
40	20(3/4")	56	83	32.5	75	61	22	E2-40x20(3/4")
40	25(1")	62	83	32.5	75	61	22	E2-40x25(1")
40	32(1-1/4")	72	83	32.5	75	61	22	E2-40x32(1-1/4")
40	40(1-1/2")	83	83	32.5	85	76	-	E2-40x40(1-1/2")
50	10(3/8")	50	98	35	90	76	30	E2-50x10(3/8")
50	12(1/2")	56	98	35	90	76	30	E2-50x12(1/2")
50	16(5/8")	56	98	35	90	76	30	E2-50x16(5/8")
50	20(3/4")	62	98	35	90	76	30	E2-50x20(3/4")
50	25(1")	72	98	35	90	76	30	E2-50x25(1")
50	32(1-1/4")	72	98	35	90	76	30	E2-50x32(1-1/4")
50	40(1-1/2")	80	98	35	90	76	30	E2-50x40(1-1/2")
50	50(2")	90	98	35	95	86	30	E2-50x50(2")
60	10(3/8")	68	123	42.5	90	76	35	E2-60x10(3/8")
60	12(1/2")	68	123	42.5	90	76	35	E2-60x12(1/2")
60	16(5/8")	68	123	42.5	90	76	35	E2-60x16(5/8")
60	20(3/4")	68	123	42.5	90	76	35	E2-60x20(3/4")
60	25(1")	68	123	42.5	90	76	35	E2-60x25(1")
60	32(1-1/4")	68	123	42.5	90	76	35	E2-60x32(1-1/4")
60	40(1-1/2")	98	123	42.5	90	76	35	E2-60x40(1-1/2")
60	50(2")	98	123	42.5	95	86	35	E2-60x50(2")



DIN 69880 STATIC HOLDER

TYPE E2-X2



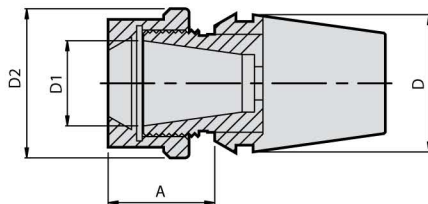
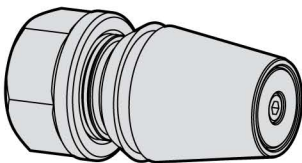
- External, internal coolant supply

D DIN 69880	D1	L1	L2	L3	L4	Order No.
30	25(1")	65	60	35	56.5	E2-30-2X25(1")-35
40	40(1-1/2")	85	80	65	91.5	E2-40-2X40(1-1/2")-65

QUICK CHANGE TAPPING

TYPE

TAPP-ER

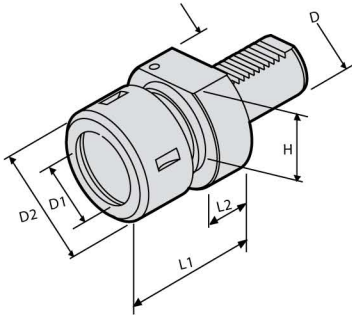


D	D1	D2	A	Order No.
ER25	ER16	32	25	TAPP-ER16
ER32	ER20	35	27	TAPP-ER20
ER40	ER25	42	30	TAPP-ER25



DIN 69880 STATIC HOLDER

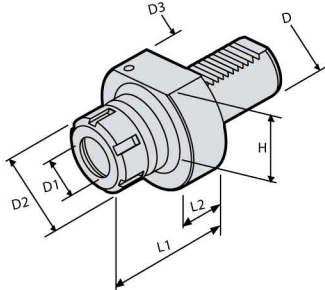
TYPE E3 E4



E3

- For Collet DIN 6388
- External Coolant Supply

D	D1	D2	D3	H	L1	L2	Order No.
30	2-25	60	68	28	75	22	E3-30-OZ25
40	2-25	60	83	32.5	75	22	E3-40-OZ25
40	4-32	78	83	32.5	90	22	E3-40-OZ32
50	2-25	60	98	35	75	30	E3-50-OZ25
50	4-32	78	98	35	90	30	E3-50-OZ32



E4

- For Collet DIN 6499
- External Coolant Supply

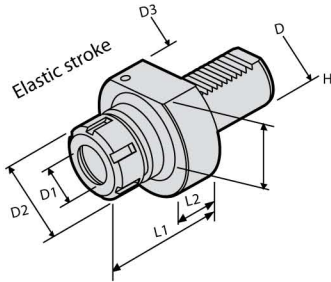
D	D1	D2	D3	H	L1	L2	Order No.
20	1-16	42	50	-	50	18	E4-20-ER25
30	1-16	42	68	28	53	22	E4-30-ER25
30	2-20	50	68	28	57	22	E4-30-ER32
40	1-16	42	83	32.5	62	28	E4-40-ER25
40	2-20	50	83	32.5	62	28	E4-40-ER32
40	3-26	63	83	32.5	75	28	E4-40-ER40
50	3-26	63	98	35	75	30	E4-50-ER40
60	3-26	63	123	42.5	75	30	E4-60-ER40
60	10-34	78	123	42.5	75	30	E4-60-ER50





DIN 69880 STATIC HOLDER

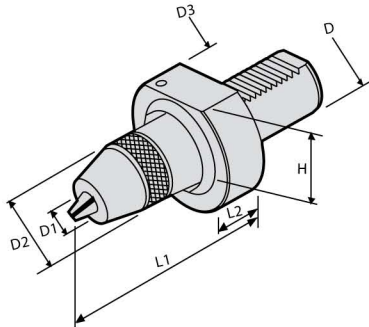
TYPE TAPPER, CHUCK



TAPPER

- For Collet DIN 6499
- External Coolant Supply

D	D1	D2	D3	H	L1	L2	Order No.
20	1-13	34	50	-	60	18	TAP-20-ER20
30	1-16	42	68	28	68	22	TAP-30-ER25
40	1-16	42	83	32.5	73	22	TAP-40-ER25
50	2-20	50	98	35	83	30	TAP-50-ER32
60	2-20	50	123	42.5	85	30	TAP-60-ER32



KEYLESS DRILL CHUCK

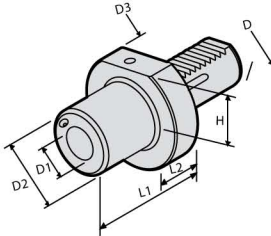
- External Coolant Supply

D	D1	D2	D3	H	L1	L2	Order No.
30	1-13	51	68	28	85	22	CHUCK-30-13
40	1-13	51	83	32.5	85	22	CHUCK-40-13
40	3-16	58	83	32.5	90	22	CHUCK-40-16
50	1-13	51	98	35	85	30	CHUCK-50-13
50	3-16	58	98	35	90	30	CHUCK-50-16
60	1-13	51	123	42.5	85	25	CHUCK-60-13
60	3-16	58	123	42.5	90	25	CHUCK-60-16



DIN 69880 STATIC HOLDER

TYPE F



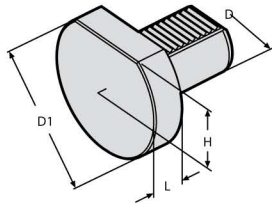
- Tool holders with morse taper according DIN 228
- External coolant supply

D	D1	D2	D3	H	L1	L2	Order No.
20	MT1	-	50	-	23	-	F20-MT1
30	MT1	52	68	28	27	22	F30-MT1
30	MT2	58	68	28	43	22	F30-MT2
30	MT3	64	68	28	66	22	F30-MT3
40	MT1	55	83	32.5	36	22	F40-MT1
40	MT2	66	83	32.5	43	22	F40-MT2
40	MT3	72	83	32.5	58	22	F40-MT3
40	MT4	72	83	32.5	78	22	F40-MT4
50	MT1	55	98	35	36	30	F50-MT1
50	MT2	55	98	35	36	30	F50-MT2
50	MT3	60	98	35	44	30	F50-MT3
50	MT4	70	98	35	71	30	F50-MT4
60	MT2	55	123	42.5	36	30	F60-MT2
60	MT3	58	123	42.5	36	30	F60-MT3
60	MT4	68	123	42.5	50	30	F60-MT4
60	MT5	98	123	42.5	63	30	F60-MT5

PLUG

TYPE

DIN 69880



- Made From Plastic

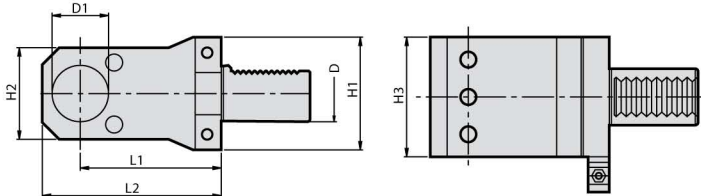
D	D1	H	L	Order No.
20	50	-	16	Z20
30	68	26.5	16	Z30
40	82	32	20	Z40
50	98	35	20	Z50
60	116	-	20	Z60





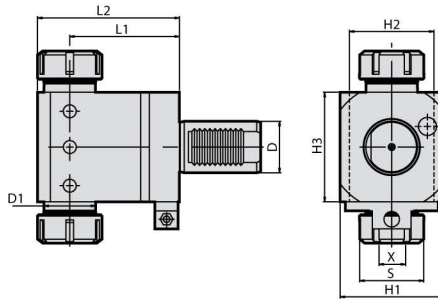
DIN 69880 AXIAL STATIC HOLDER

TYPE T1



● External, internal coolant supply

D DIN 69880	D1	H1	H2	H3	L1	L2	Order No.
30	32(1-1/4")	65	52	62	65	90	T1-30-32(1-1/4")-65
30	32(1-1/4")	65	52	62	85	108	T1-30-32(1-1/4")-85
30	32(1-1/4")	65	52	62	100	123	T1-30-32(1-1/4")-100
30	32(1-1/4")	65	52	62	120	143	T1-30-32(1-1/4")-120
40	32(1-1/4")	80	65	85	85	112	T1-40-32(1-1/4")-85
40	40(1-1/2")	80	65	85	85	112	T1-40-40(1-1/2")-85
40	40(1-1/2")	80	65	85	100	127	T1-40-40(1-1/2")-100
50	40(1-1/2")	90	80	96	100	137	T1-50-40(1-1/2")-100
50	50(2")	90	80	96	100	137	T1-50-50(2")-100
60	50(2")	104	90	120	100	142	T1-60-50(2")-100
60	60(2-3/8")	104	90	120	100	142	T1-60-60(2-3/8")-100

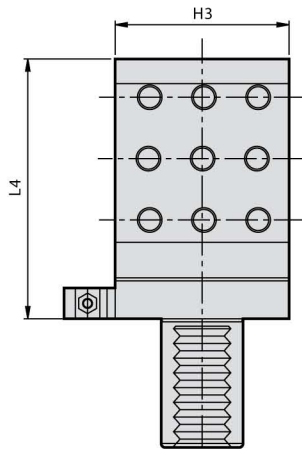
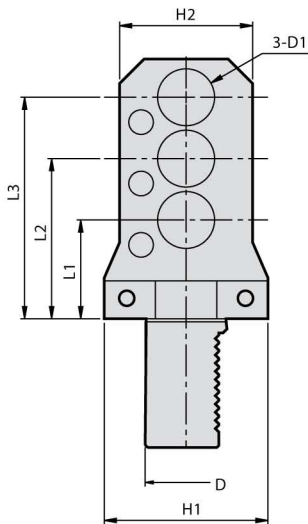


D DIN 69880	D1	X Capacity	S	H1	H2	H3	L1	L2	Order No.
30	32(1-1/4")	ER25 1-16	42	65	52	62	65	90	T1-30-32(1-1/4")-65-25x2
30	32(1-1/4")	ER25 1-16	42	65	52	62	85	108	T1-30-32(1-1/4")-85-25x2
30	32(1-1/4")	ER25 1-16	42	65	52	62	100	123	T1-30-32(1-1/4")-100-25x2
30	32(1-1/4")	ER25 1-16	50	65	52	62	120	143	T1-30-32(1-1/4")-120-25x2
40	32(1-1/4")	ER25 1-16	50	80	65	85	85	112	T1-40-32(1-1/4")-85-25x2
40	40(1-1/2")	ER32 2-20	50	80	65	85	85	112	T1-40-40(1-1/2")-85-32x2
40	40(1-1/2")	ER32 2-20	50	80	65	85	100	127	T1-40-40(1-1/2")-100-32x2



DIN 69880 AXIAL STATIC HOLDER

TYPE T1-X3



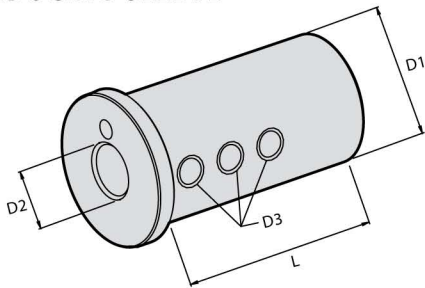
● External coolant supply

D	D1	H1	H2	H3	L1	L2	L3	L4	Order No.
30	25(1")	65	65	62	42	85	128	148	T1-30-3X25(1")
40	32(1-1/4")	80	65	85	50	85	120	148	T1-40-3X32(1-1/4")



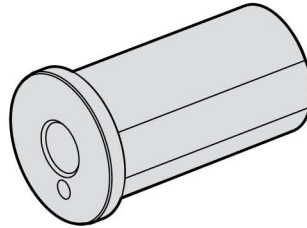
REDUCING SLEEVE

TYPE RS-W RS

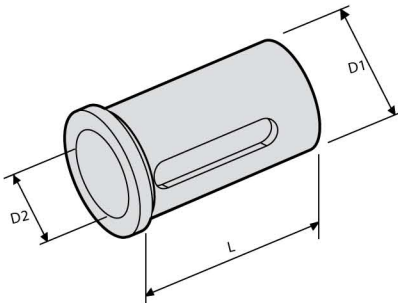


RS-W

- For Boring Bar Holder
- External Coolant Supply



D1	L	D2							D3
		6(1/4")	8(5/16")	10(3/8")	12(1/2")	16(5/8")	20(3/4")	25(1")	
20	45	E20-6	E20-8	E20-10					Thread
25	55	E25-6	E25-8	E25-10	E25-12				
32	60	E32-6	E32-8	E32-10	E32-12				
40	75	E40-6	E40-8	E40-10	E40-12				
50	85		E50-8	E50-10	E50-12	E50-16	E50-20	E50-25	



RS

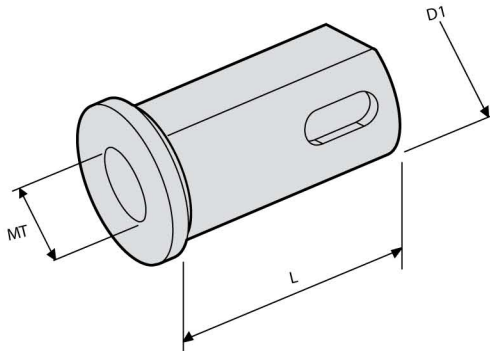
- For Boring Bar Holder

D1	L	D2							
		8(5/16")	10(3/8")	12(1/2")	16(5/8")	20(3/4")	25(1")	32(1-1/4")	40(1-1/2")
20	50			E20-12	E20-16	E20-20			
25	50				E25-16	E25-20			
32	60				E32-16	E32-20	E32-25		
40	75				E40-16	E40-20	E40-25	E40-32	
50	85							E50-32	E50-40



REDUCING SLEEVE

TYPE RS-MT



RS-MT

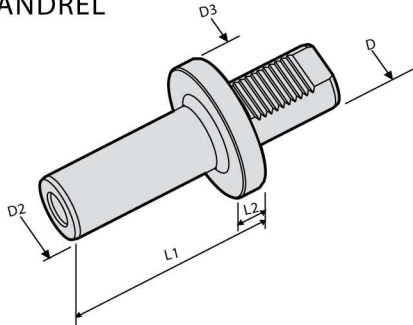
- Tool holders with mores taper according to DIN 228

D1	L	MT			
		1	2	3	4
25	50	E25-MT1	E25-MT2		
32	60	E32-MT1	E32-MT2	E32-MT3	
40	75	E40-MT1	E40-MT2	E40-MT3	E40-MT4
50	85	E50-MT1	E50-MT2	E50-MT3	E50-MT4



DIN 69880 TEST MANDREL

TYPE TB1

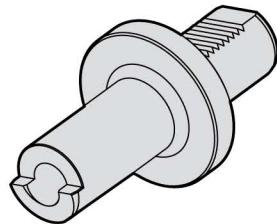
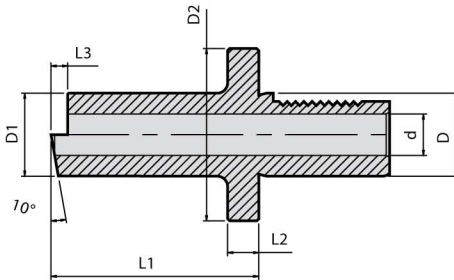


D DIN 69880	D2	D3	L1	L2	Order No.
30	30	68	115	15	TB1-30
40	40	83	115	15	TB1-40
40	40	83	150	15	TB1-40
50	50	98	115	15	TB1-50
50	50	98	150	15	TB1-50
60	60	123	180	15	TB1-60

DIN 69880 TEST MANDREL

TYPE

TB2



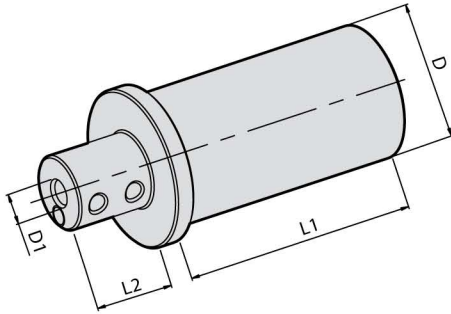
D DIN 69880	d	D1	D2	L1	L2	L3	Order No.
20	20	40	50	100	15	8	TB2-20
30	20	40	68	100	15	8	TB2-30
40	20	40	83	100	15	8	TB2-40
50	20	40	98	100	15	8	TB2-50
60	20	40	123	100	15	8	TB2-60





REDUCING SLEEVE

TYPE RS-WE



RS-WE

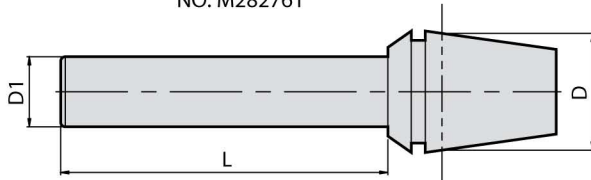
- For Boring Bar Holder
- External Coolant Supply

D	L1	L2	D1			
			6(1/4")	8(5/16")	10(3/8")	12(1/2")
32	60	20	WE32-6			
32	60	35		WE32-8	WE32-10	WE32-12
40	70	20	WE40-6			
40	70	35		WE40-8	WE40-10	WE40-12

TESTING BAR

PATENT NO. M282761

NO. M282761



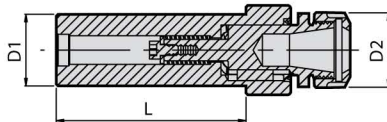
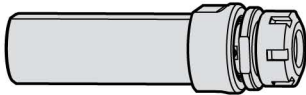
D	D1	L
ER16	10	60
ER20	13	60
ER25	15	65
ER32	18	80
ER40	18	80
ER50	25	100





WER TAPPING CHUCK

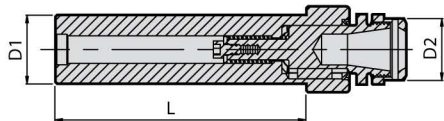
TYPE WER-SL



X Capacity	D1	L	D2	Order No.
ER16	20	80	30	SL20-WER16-80
ER20	20	80	35	SL20-WER20-80
ER16	25	80	30	SL25-WER16-80
ER20	25	80	35	SL25-WER20-80
ER25	25	80	42	SL25-WER25-80
ER25	32	80	42	SL32-WER25-80
ER32	32	80	50	SL32-WER32-80

WER TAPPING CHUCK

TYPE WER-BC

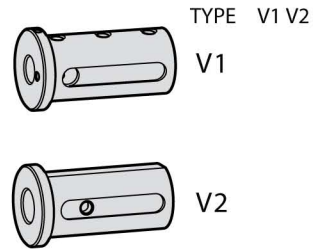
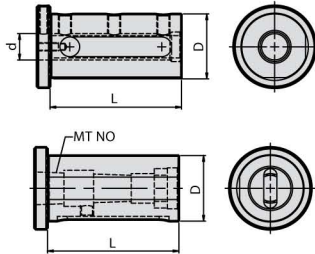


X Capacity	D1	L	D2	Order No.
ER16	20	130	30	BC20-WER16-130
ER20	20	130	35	BC20-WER20-130
ER16	25	130	30	BC25-WER16-130
ER20	25	130	35	BC25-WER20-130
ER25	25	130	42	BC25-WER25-130
ER25	32	130	42	BC32-WER25-130
ER32	32	130	50	BC32-WER32-130





REDUCING SLEEVE



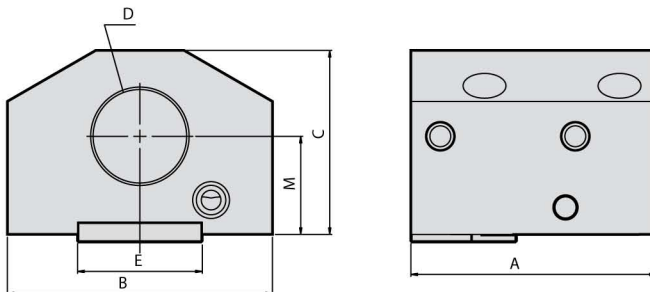
D	d	L	V	MT NO	Order No.
32	8(5/16")	80	V1		V32-8(5/16")
32	10(3/8")	80	V1		V32-10(3/8")
32	12(1/2")	80	V1		V32-12(1/2")
32	16(5/8")	80	V1		V32-16(5/8")
32	20(3/4")	80	V1		V32-20(3/4")
32	25(1")	80	V1		V32-25(1")
32		80	V2	1	V32-MTA1
32		80	V2	2	V32-MTA2
32		80	V2	3	V32-MTA3
40	8(5/16")	80	V1		V40-8(5/16")
40	10(3/8")	80	V1		V40-10(3/8")
40	12(1/2")	80	V1		V40-12(1/2")
40	16(5/8")	80	V1		V40-16(5/8")
40	20(3/4")	80	V1		V40-20(3/4")
40	25(1")	80	V1		V40-25(1")
40	32(1-1/4")	80	V1		V40-32(1-1/4")
40		80	V2	1	V40-MTA1
40		80	V2	2	V40-MTA2
40		80	V2	3	V40-MTA3
40		80	V2	4	V40-MTA4
50	8(5/16")	80	V1		V50-8(5/16")
50	10(3/8")	80	V1		V50-10(3/8")
50	12(1/2")	80	V1		V50-12(1/2")
50	16(5/8")	80	V1		V50-16(5/8")
50	20(3/4")	80	V1		V50-20(3/4")
50	25(1")	80	V1		V50-25(1")
50	32(1-1/4")	80	V1		V50-32(1-1/4")
50	40(1-1/2")	80	V1		V50-40(1-1/2")
50		80	V2	1	V50-MTA1
50		80	V2	2	V50-MTA2
50		80	V2	3	V50-MTA3
50		80	V2	4	V50-MTA4





BORING BAR HOLDER

TYPE LTC

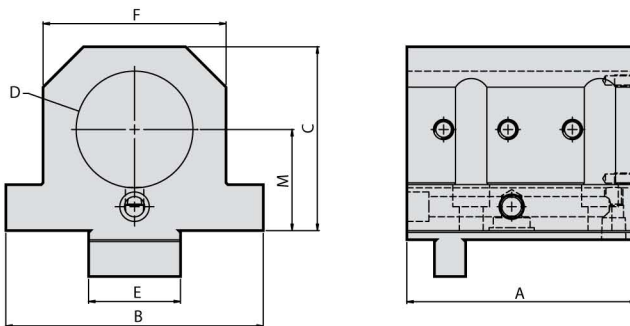


- External, internal coolant supply

Models	D	A	B	C	E	M	Order No.
CLT-25T	38.1	100	108	75	50.8	40	LTC25-38.1-40

BORING BAR HOLDER

TYPE LTC



- External, internal coolant supply

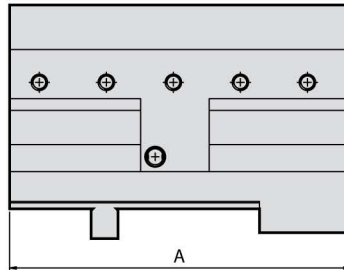
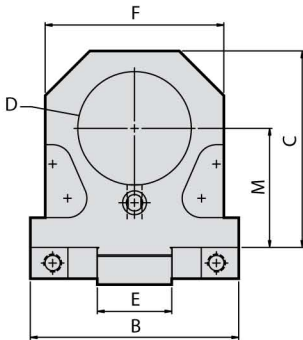
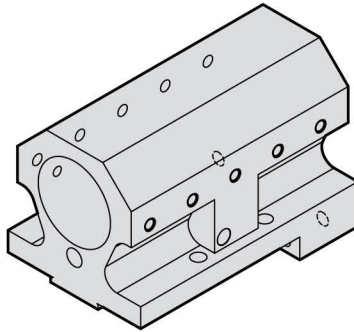
Models	D	A	B	C	E	F	M	Order No.
CLT-200I	63.5	125	140	100	50	100	50	LTC35-63.5-55
CLT-200I	63.5	125	140	132	50	120	80	LTC35-63.5-80
CLT-200I	76.2	125	140	132	50	120	80	LTC50-76.2-80





BORING BAR HOLDER

TYPE LTC

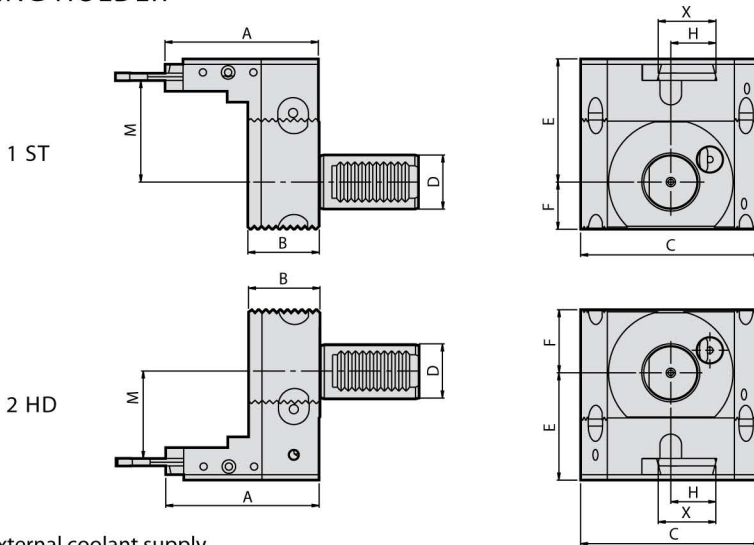


- External,internal coolant supply

Models	D	A	B	C	E	E	M	Order No.
CLT-200I	76.2	229	140	100	50	120	80	LTC50-76.2-80-L



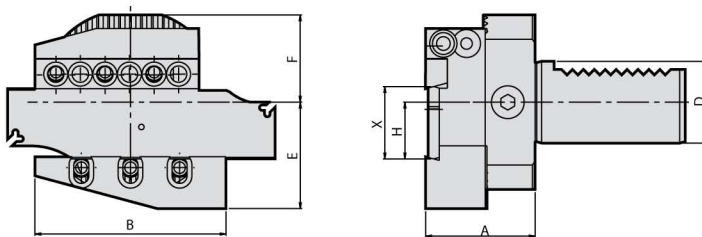
CUTTING HOLDER



- External coolant supply

D DIN 69880	A	B	C	E	F	H	X	M	Order No.
30	85	39.5	95	68.3	26.2	20	26	56.3	V30-1ST-20-CUTTER
30	85	39.5	95	59.5	35	20	26	47.5	V30-2HD-20-CUTTER

CUTTING HOLDER



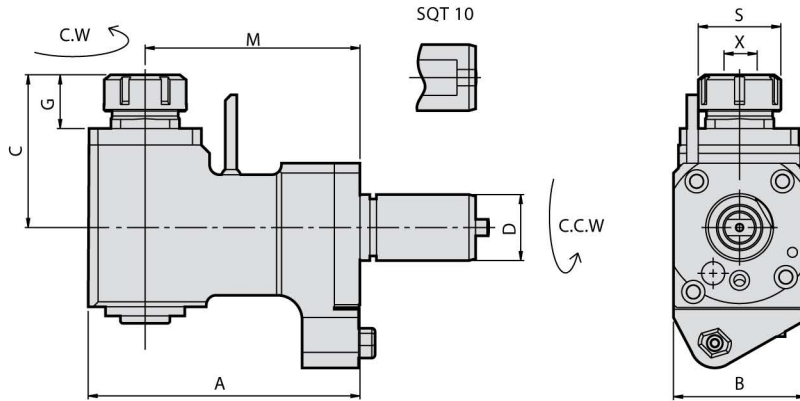
- External coolant supply

D DIN 69880	A	B	E	F	H	X	Order No.
30	40.1	70	39	32	20	26	B-30-20-CUTTER



H TYPE MILLING AND DRILLING HEAD FOR 1ST SPINDLE

TYPE MAZAK SUPER QUICK TURN



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Machine Type	Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	G	M	Order No.
SQT10M-12D 15M-16D SQT200M-16D 250M-16D	QTN 100M/150M SQT 10M	40	1-16 ER25	42	5000	137	75	43	29	100	5352100
SQT15M-12D 18M-12D SQT200M-12D 250M-12D	QTN 200M/250M SQT 15/18M	40	1-16 ER25	42	5000	165	80	90	29	130	5362100
		40	2-20 ER32	50	5000	165	80	92	32.5	130	5362132

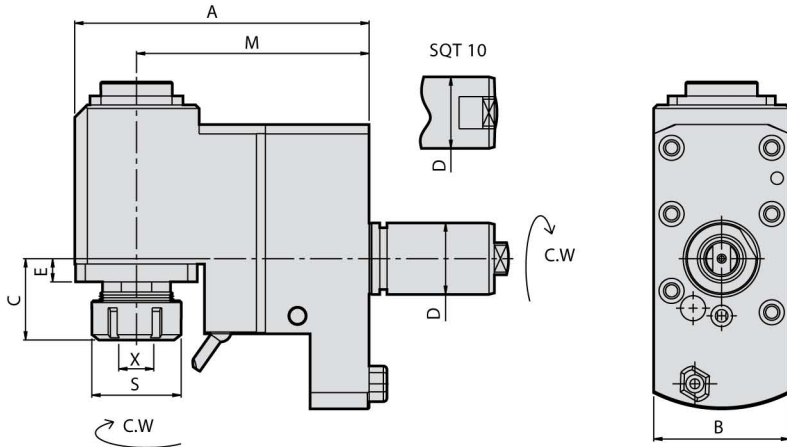
H TYPE TAPPING HEAD

Machine Type	Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	G	M	Order No.
SQT10M-12D 15M-16D SQT200M-16D 250M-16D	QTN 100M/150M SQT 10M	40	1-10 ER16	30	3000	137	75	106	46	100	5352300
SQT15M-12D 18M-12D SQT200M-12D 250M-12D	QTN 200M/250M SQT 15/18M	40	1-13 ER20	35	3000	165	80	108	48	130	5362300



H TYPE MILLING AND DRILLING HEAD FOR 2ND SPINDLE

TYPE MAZAK SUPER QUICK TURN



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Machine Type	Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	M	Order No.
SQT10M-12D 15M-16D SQT200M-16D 250M-16D	QTN 100M/150M SQT 10M	40	1-16 ER25	42	5000	134	76	43	14	100	5354300
SQT15M-12D 18M-12D SQT200M-12D 250M-12D	QTN 200M/250M	40	1-16 ER25	42	5000	162	80	80	22.5	130	5364300
	SQT 15/18M	40	2-20 ER32	50	5000	164	76	45	13	130	5364332

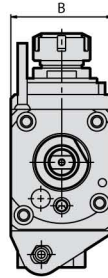
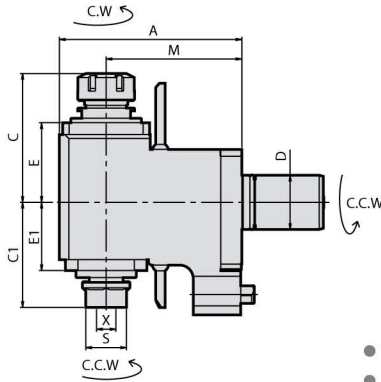
H TYPE TAPPING HEAD

Machine Type	Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	M	Order No.
SQT10M-12D 15M-16D SQT200M-16D 250M-16D	QTN 100M/150M SQT 10M	40	1-10 ER16	30	3000	134	76	32	14	100	5354200
SQT15M-12D 18M-12D SQT200M-12D 250M-12D	QTN 200M/250M SQT 15/18M	40	1-13 ER20	35	3000	162	80	65	22.5	130	5364200



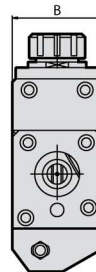
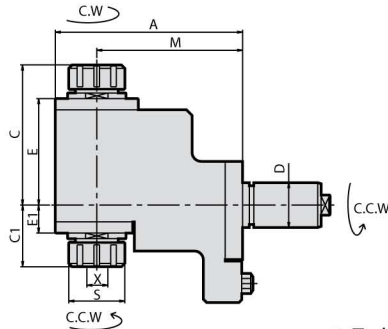
H TYPE MILLING AND DRILLING HEAD DOUBLE COLLET

TYPE MAZAK SUPER QUICK TURN



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Machine Type	Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	C1	E	E1	M	Order No.
SQT10M-12D 15M-16D SQT200M-16D 250M-16D	QTN 100M/150M SQT 10M	40	1st-ER25 2nd-ER20	42 35	4000	130	75	95	77.5	59	50	100	5352111



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

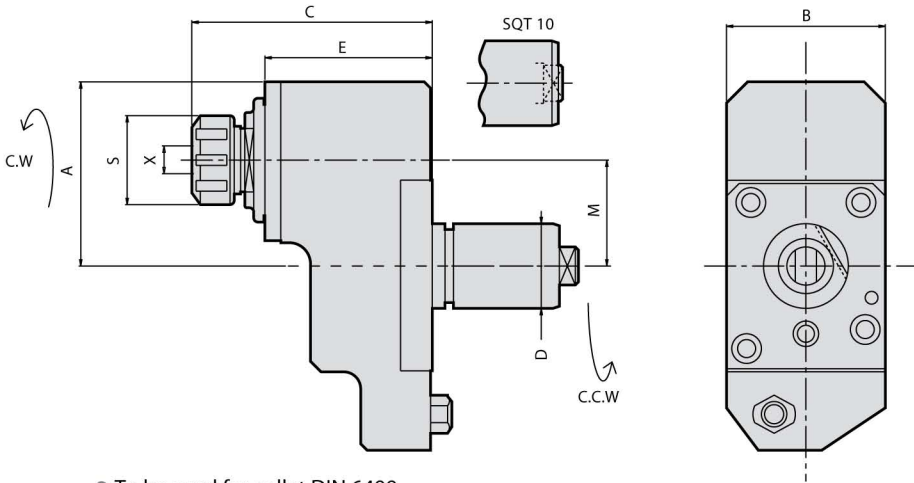
Machine Type	Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	C1	E	E1	M	Order No.
SQT15M-12D 18M-12D SQT200M-12D 250M-12D	QTN 200M/250M SQT 15/18M	40	2-20 ER32	50	4000	167	80	119	50	89	19	130	5364111





H TYPE MILLING AND DRILLING HEAD OFFSET

TYPE MAZAK SUPER QUICK TURN



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Machine Type	Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	M	Order No.
SQT10M-12D 15M-16D SQT200M-16D 250M-16D	QTN 100M/150M SQT 10M	40	1-16 ER25	42	5000	88	75	103	90	50	5352700-25A
			1-16 ER25	42	5000	88	75	113	79	50	5352700
SQT15M-12D 18M-12D SQT200M-12D 250M-12D	QTN 200M/250M SQT 15/18M	40	1-16 ER25	42	5000	89	80	116	81.5	50	5362200
			1-16 ER25	42	(1:2) 7000	89	75	116	84	50	#5362201
			2-20 ER32	50	5000	89	80	122	81.5	50	5362232

V TYPE TAPPING HEAD

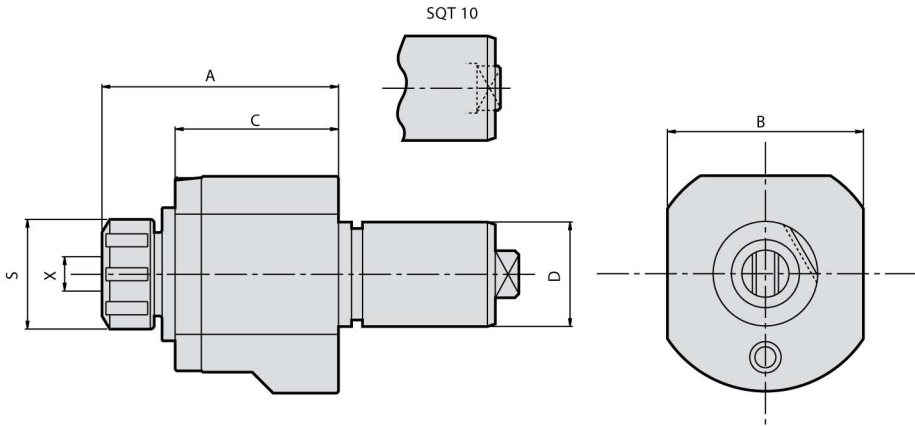
Machine Type	Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	M	Order No.
SQT10M-12D 15M-16D SQT200M-16D 250M-16D	QTN 100M/150M SQT 10M	40	1-10 ER16	30	4000	88	75	118	79	50	5352800
			1-13 ER20	35	4000	89	80	120	81.5	50	5362400





H TYPE MILLING AND DRILLING HEAD DA-SERIES

TYPE MAZAK SUPER QUICK TURN



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Machine Type	Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	Order No.
SQT10M-12D 15M-16D SQT200M-16D 250M-16D	QTN 100M/150M SQT 10M	40	1-16 ER25	42	6000	91	75	59	5352200
SQT15M-12D 18M-12D SQT200M-12D 250M-12D	QTN 200M/250M SQT 15/18M	40	2-20 ER32	50	6000	117	80	80	5362218

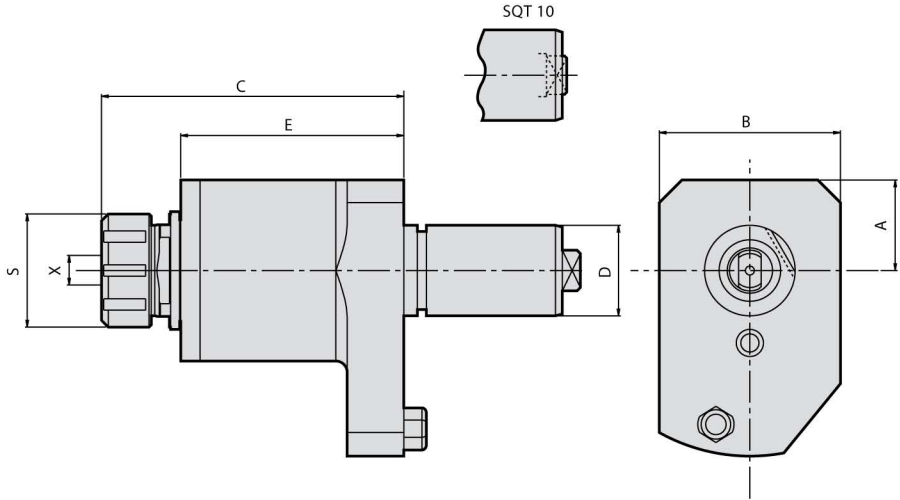
V TYPE TAPPING HEAD

Machine Type	Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	Order No.
SQT10M-12D 15M-16D SQT200M-16D 250M-16D	QTN 100M/150M SQT 10M	40	1-10 ER16	30	4000	97	75	59	5352400
SQT15M-12D 18M-12D SQT200M-12D 250M-12D	QTN 200M/250M SQT 15/18M	40	1-13 ER20	35	4000	120	80	80	5362220



H TYPE MILLING AND DRILLING HEAD
 DA-SERIES, LONG

TYPE MAZAK SUPER QUICK TURN



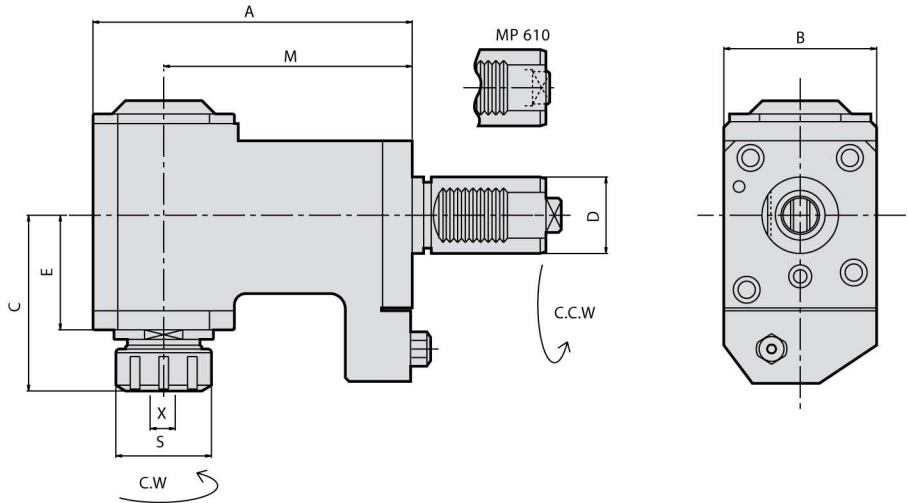
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Machine Type	Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	Order No.
SQT15M-12D 18M-12D SQT200M-12D 250M-12D	QTN 200M/250M SQT 15/18M	40	2-20 ER32	50	6000	40	80	117	82.5	5362632
						40	80	133.5	98.5	5362632-L



H TYPE MILLING AND DRILLING HEAD

TYPE MAZAK MULTIPLEX



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Machine Type	Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	M	Order No.
MP410N-12D 415N-12D MP610-12D 6200-16D	MP 610	40	1-16 ER25	42	5000	152	75	90	60	115	5346800
MP420N-12D 620N-12D MP620-12D 6200-16D	MP 620	40	1-16 ER25	42	5000	167	80	90	60	130	5347600
			2-20 ER32	50	5000	167	80	92	60	130	5347632
			2-20 ER32	50	(1:2) 7000	169	88	101	65.5	130	#5347632-1

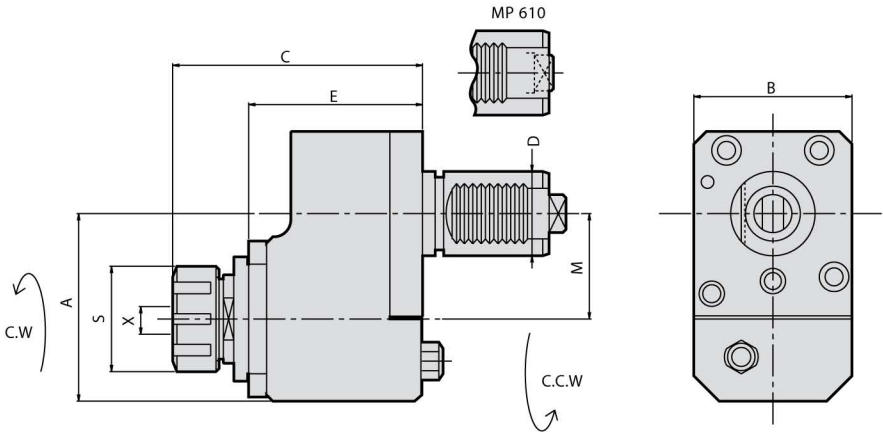
H TYPE TAPPING HEAD

Machine Type	Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	M	Order No.
MP410N-12D 415N-12D MP610-12D 6200-16D	MP 610	40	1-10 ER16	30	3000	152	75	106	60	115	5346600
MP420N-12D 620N-12D MP620-12D 6200-16D	MP 620	40	1-13 ER20	35	3000	167	80	108	60	130	5347300



V TYPE MILLING AND DRILLING HEAD OFFSET

TYPE MAZAK MULTIPLEX



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Machine Type	Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	M	Order No.
MP410N-12D 415N-12D MP610-12D 6200-16D	MP 610	40	1-16 ER25	42	5000	89	75	118	82.5	50	5346100
MP420N-12D 620N-12D MP620-12D 6200-16D	MP 620	40	1-16 ER25	42	5000	89	80	116	81.5	50	5347200
			2-20 ER32	50	5000	89	80	118	81.5	50	5347232

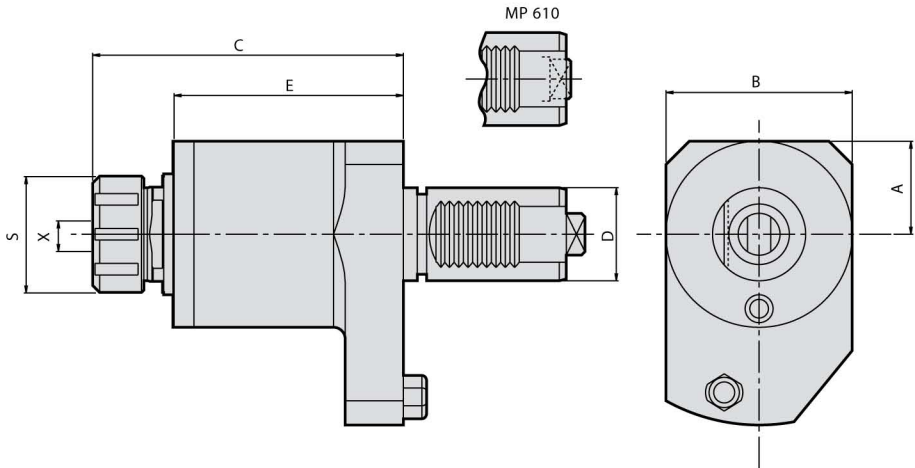
V TYPE TAPPING HEAD

Machine Type	Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	M	Order No.
MP410N-12D 415N-12D MP610-12D 6200-16D	MP 610	40	1-10 ER16	30	4000	89	75	123	82.5	50	5346200
MP420N-12D 620N-12D MP620-12D 6200-16D	MP 620	40	1-13 ER20	35	4000	89	80	126	81.5	50	5347400



V TYPE MILLING AND DRILLING HEAD DA-SERIES

TYPE MAZAK MULTIPLEX

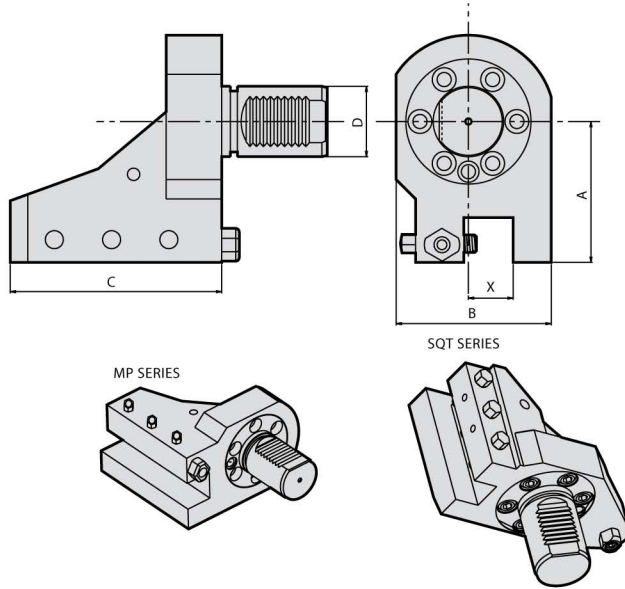


- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Machine Type	Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	Order No.
MP410N-12D 415N-12D MP610-12D 6200-16D	MP 610	40	1-16 ER25	42	6000	40	75	105	74	5346101
MP420N-12D 620N-12D MP620-12D 6200-16D	MP 620	40	1-16 ER25	42	6000	40	80	105	74	5347202
			2-20 ER32	50	6000	40	80	107	74	5347201



FORWARD TURNING HOLDER RH TYPE MAZAK SUPER QUICK TURN & MULTIPLEX



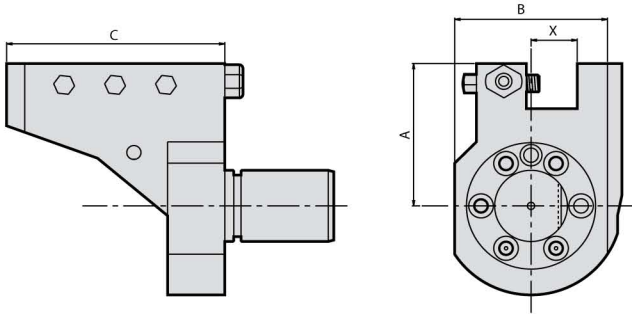
Models	D		X	A	B	C	Order No.
QTN 100M/150M SQT 10M/15AM	40	mm	20	66	76	100	T5351101
		inch	0.75"	2.6"	3"	3.937"	T5351100
QTN 200M/250M SQT 15/18M	40	mm	25	78	84	120	T5361100
		inch	1"	3.071"	3.307"	4.724"	T5361100-1"
SQT-28M/30M	50	mm	25	-			T5381100 •
		inch	1"	-			T5381101 •
MP-610N/615N MP-410N/415N	40	mm	20	85	76	100	T5346201
		inch	0.75"	3.347"	3"	3.937"	T5346200
MP-620N/625N MP-420N	40	mm	25	83	84	120	T5347200-R25
		inch	1"	3.268"	3.307"	4.724"	T5347200-R25.4
MP-630	50	mm	25	-			T5348101 •
		inch	1"	-			T5348101-1" •

• ON REQUEST

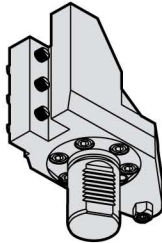


REVERSE TURNING HOLDER LH

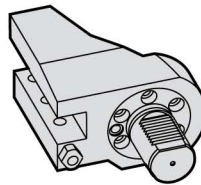
TYPE MAZAK SUPER QUICK TURN & MULTIPLEX



SQT SERIES



MP SERIES



Models	D		X	A	B	C	Order No.
QTN 100M/150M SQT 10M/15AM	40	mm	20	66	76	100	T5351701
		inch	0.75"	2.6"	3"	3.937"	T5351700
QTN 200M/250M SQT 15/18M	40	mm	25	78	84	120	T5361600
		inch	1"	3.071"	3.307"	4.724"	T5361600-1"
SQT-28M/30M	50	mm	25	80	90	160	T5381600
		inch	1"	3.250"	3.543"	6.299"	T5381601
MP-610N/615N MP-410N/415N	40	mm	20	85	76	100	T5346101
		inch	0.75"	3.347"	3"	3.937"	T5346100
MP-620N/625N MP-420N	40	mm	25	83	84	120	T5347100
		inch	1"	3.268"	3.307"	4.724"	T5347100-1"
MP-630	50	mm	25	-	-	-	T5348001 -
		inch	1"	-	-	-	T5348001-1" -

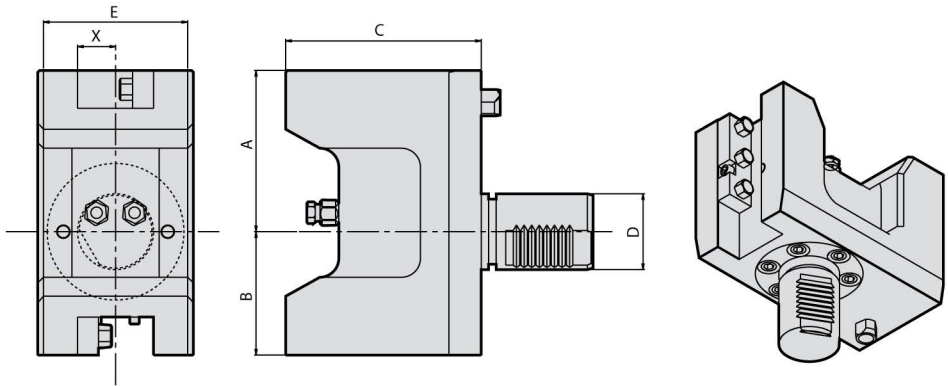
• ON REQUEST





DOUBLE TURNING HOLDER

TYPE MAZAK SUPER QUICK TURN

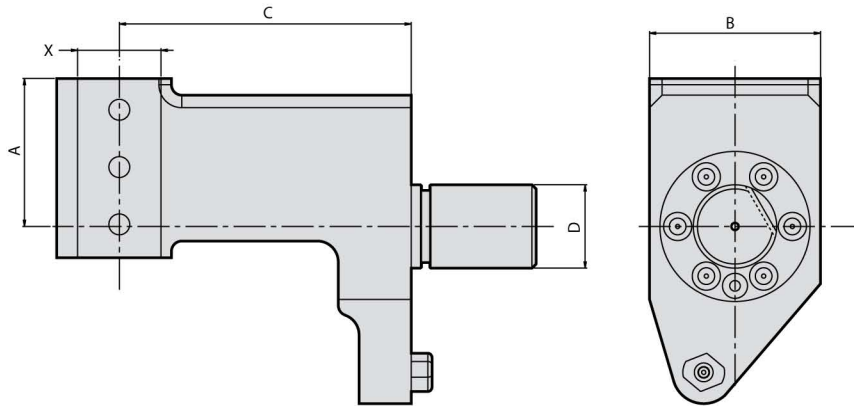


Models	D		X	A	B	C	E	Order No.
QTN 100M/150M SQT 10M/15AM	40	mm	20	85	65	103	76	T5353101
		inch	0.75"	3.347"	2.559"	4.055"	2.992"	T5353100
QTN 200M/250M SQT 15/18M	40	mm	25	88	78	136	84	T5363300
		inch	1"	3.465"	3.071"	5.354"	3.307"	T5363300-1"
SQT-28M/30M	50	mm	25	128	80	150	90	T5383801
		inch	1"	5.039"	3.150"	5.906"	3.543"	T5383800



BORING BAR HOLDER

TYPE MAZAK SUPER QUICK TURN

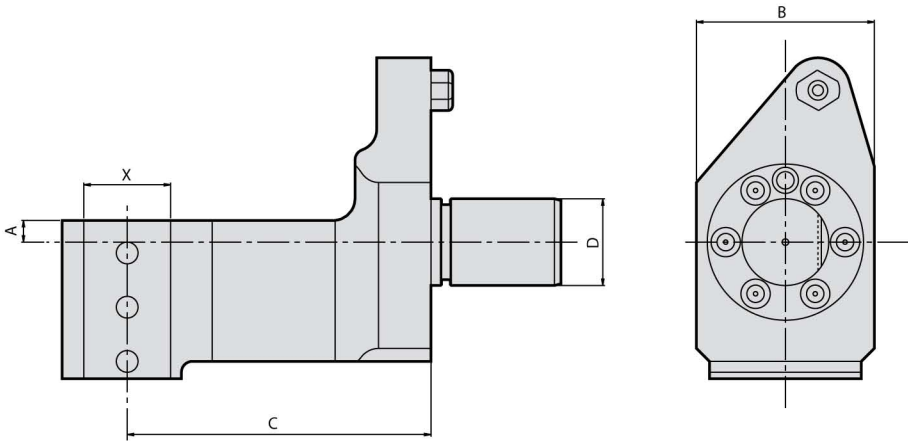


Models	D		X	A	B	C	Order No.
QTN 100M/150M SQT 10M/15AM	40	mm	32	56	76	110	B5351201
		inch	1.25"	2.205"	2.992"	4.331"	B5351200
QTN 200M/250M SQT 15/18M	40	mm	40	71	82	140	B5361200
		inch	1.5"	2.795"	3.228"	5.512"	B5361200-1.5"
SQT-28M/30M	50	mm	50	65	90	175	B5381201
		inch	2"	2.559"	3.543"	6.890"	B5381200



BORING BAR HOLDER

TYPE MAZAK MULTIPLEX

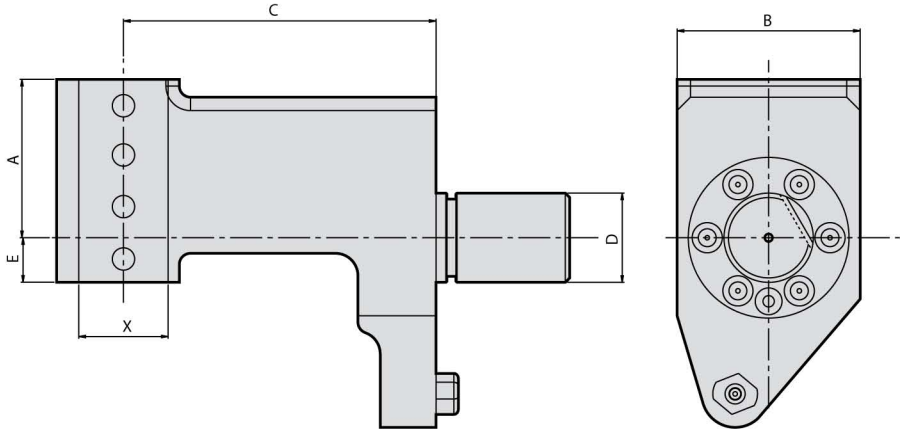


Models	D		X	A	B	C	Order No.
MP-610N	40	mm	25	5	76	120	B5346400
		inch	1"	0.197"	2.997"	4.724"	B5346400-1"
		mm	32	10	76	120	B5346300
		inch	1.25"	0.394"	2.997"	4.724"	B5346300-1.25"
MP-615N	40	mm	25	10	76	130	B5356201
		inch	1"	0.394"	2.997"	5.118"	B5356201-1"
		mm	32	10	76	130	B5356301
		inch	1.25"	0.394"	2.997"	5.118"	B5356301-1.25"
MP-620N	40	mm	25	5	82	140	B5347400
		inch	1"	0.197"	3.228"	5.512"	B5347400-1"
		mm	40	10	82	140	B5347300
		inch	1.5"	0.394"	3.228"	5.512"	B5347300-1.5"



DOUBLE BORING BAR HOLDER

TYPE MAZAK SUPER QUICK TURN

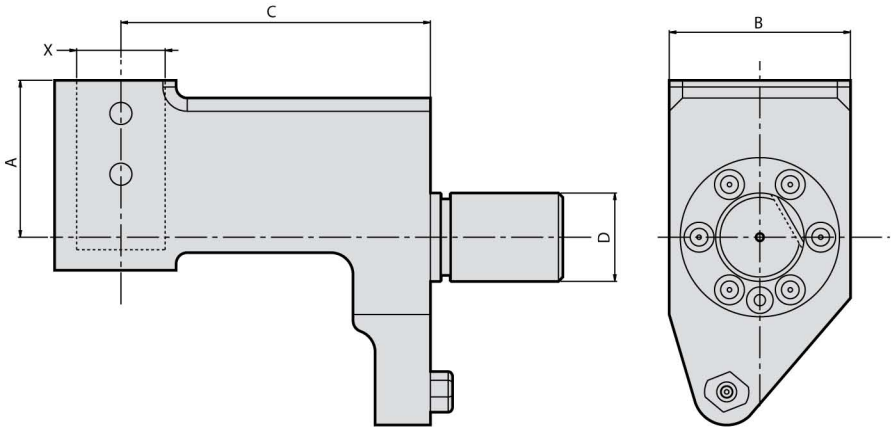


Models	D		X	A	B	C	E	Order No.
QTN 100M/150M SQT 10M/15AM	40	mm	20	60	76	110	10	B5353201
		inch	0.75"	2.362"	3"	4.331"	0.394"	B5353200
QTN 200M/250M SQT 15/18M	40	mm	25	85	84	140	15	B5363400
		inch	1"	3.346"	3.307"	5.512"	0.591"	B5363400-1"
SQT-28M/30M	50	mm	32	75	90	180	35	B5383901
		inch	1.25"	2.953"	3.543"	7.087"	1.378"	B5383900



U DRILL HOLDER

TYPE MAZAK SUPER QUICK TURN



- External, internal coolant supply

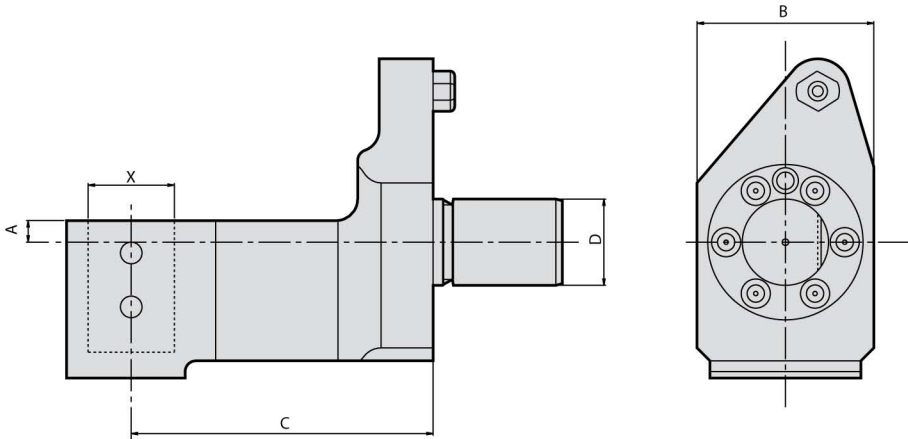
Models	D		X	A	B	C	Order No.
QTN 100M/150M SQT 10M/15AM	40	mm	32	48	76	110	U5351501
		inch	-	1.890"	2.992"	4.331"	-
QTN 200M/250M SQT 15/18M	40	mm	40	63	82	140	U5361500
		inch	-	2.480"	3.228"	5.512"	-
SQT-28M/30M	50	mm	-				•
		inch					•

• ON REQUEST



U DRILL HOLDER

TYPE MAZAK MULTIPLEX



- External, internal coolant supply

Models	D		X	A	B	C	Order No.
MP-610	40	mm	25	10	76	120	U5346800
		inch	-	0.394"	2.992"	4.724"	-
MP-620	40	mm	40	10	82	140	U5347700
		inch	-	0.394"	3.228"	5.512"	-
MP-630	50	mm					•
		inch					•

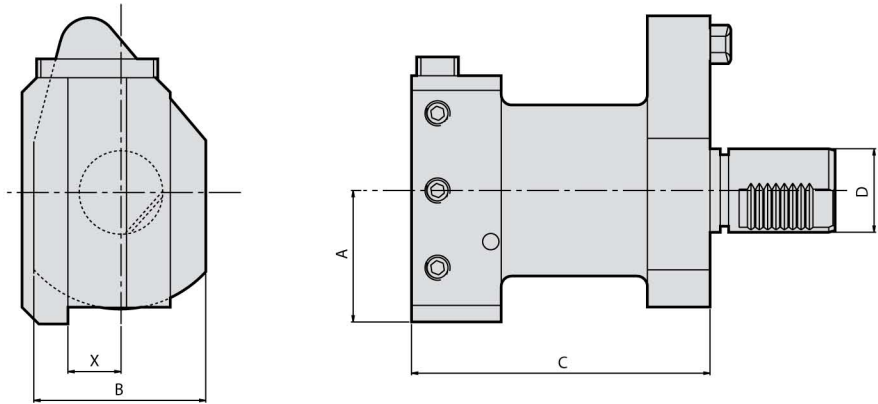
• ON REQUEST





FACING HOLDER RH

TYPE MAZAK SUPER QUICK TURN & MULTIPLEX

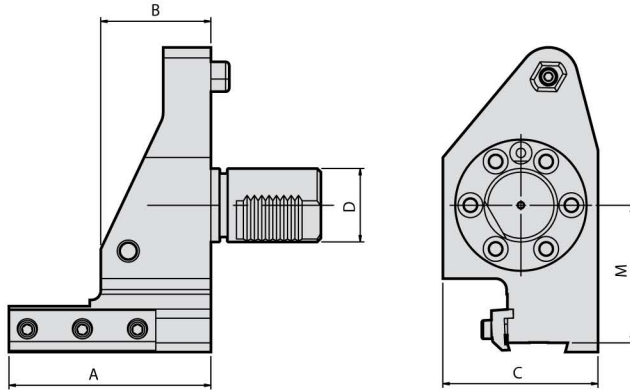


Models	D		X	A	B	C	Order No.
QTN 100M/150M SQT 10M/15AM	40	mm	20	65	76	110	F5351301
		inch	0.75"	2.559"	2.992"	4.331"	F5351300
QTN 200M/250M SQT 15/18M	40	mm	25	60	82	143	F5361300
		inch	1"	2.362"	3.228"	5.630"	F5361300-1"
SQT-28M/30M	50	mm	25	57	90	163	F5381301
		inch	1"	2.244"	3.543"	6.417"	F5381300
MP-610N/615N MP-410N/415N	40	mm	20	65	76	110	F5346500
		inch	0.75"	2.559"	2.992"	4.331"	F5346500-10.75"
MP-620N/625N MP-420N	40	mm	25	55	82	143	F5347500
		inch	1"	2.165"	3.228"	5.630"	F5347500-1"
MP-630	50	mm	25	95	90	163	F5348401
		inch	1"	3.740"	3.543"	6.417"	F5348401-1"



CUTTING HOLDER

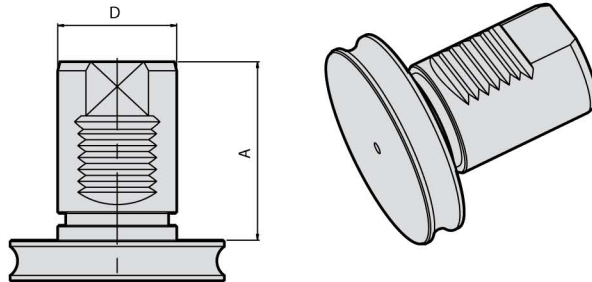
TYPE MAZAK



- External coolant supply

Models	D	A	B	C	M	Order No.
QTN 100M/150M SQT 10M/15AM	40	92	47	76	62	53518401
QTN 200M/250M SQT 15/18M	40	110	60	84.5	75	53618400

PLUG

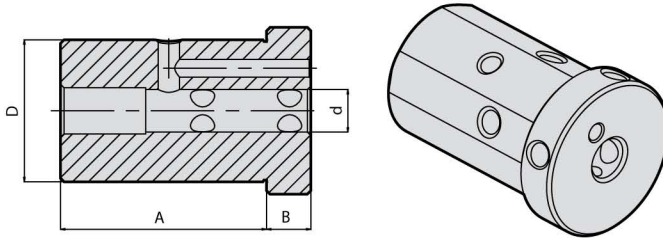


Models	D	A	Order No.
QTN 100M/150M SQT 10M/15AM	40	60	MZK-5050100
QTN 200M/250M SQT 15/18M	40	60	MZK-5050100
MP610N	40	60	MZK-5050100
MP620N	40	60	MZK-5050100



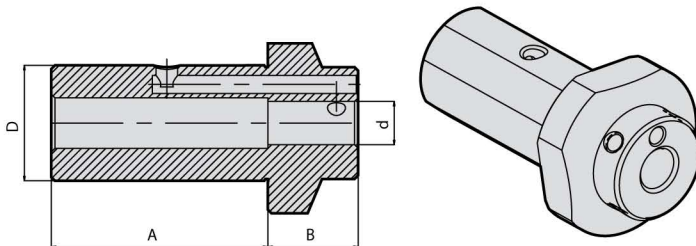
BORING SLEEVE

TYPE MK



D	d	A	B	Order No.
40	8(5/16")	58	12.5	MK-E40-8(5/16")
40	10(3/8")	58	12.5	MK-E40-10(3/8")
40	12(1/2")	58	12.5	MK-E40-12(1/2")
40	16(5/8")	58	12.5	MK-E40-16(5/8")
40	20(3/4")	58	12.5	MK-E40-20(3/4")
40	25(1")	58	12	MK-E40-25(1")
40	32(1-1/4")	58	12	MK-E40-32(1-1/4")

BORING SLEEVE



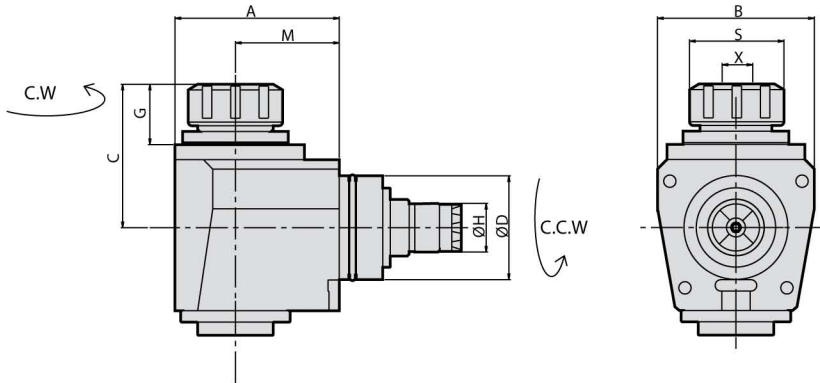
D	d	A	B	Order No.
32	8(5/16")	60	25	MK-E32-8(5/16")
32	10(3/8")	60	25	MK-E32-10(3/8")
32	12(1/2")	60	25	MK-E32-12(1/2")
32	16(5/8")	60	25	MK-E432-16(5/8")
32	20(3/4")	60	25	MK-E32-20(3/4")
32	25(1")	60	25	MK-E32-25(1")





RADIAL MILLING AND DRILLING HEAD

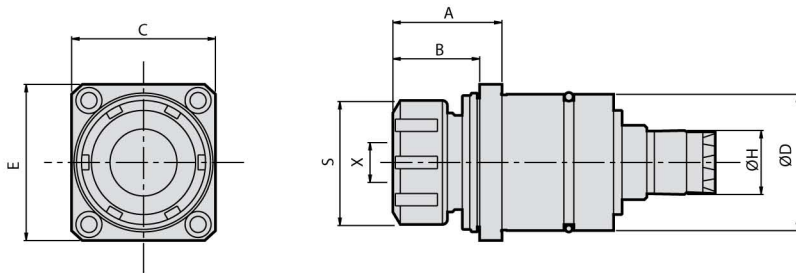
TYPE WASINO A12



● Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	G	M	H	Order No.
A-12	55	ER20 1-13	35	4000	87	83	73	29	55	25.8	DF55-ER20
	55	ER32 2-20	50	4000	87	83	77	33	55	25.8	DF55-ER32

AXIAL MILLING AND DRILLING HEAD



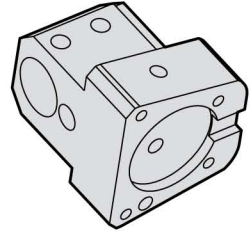
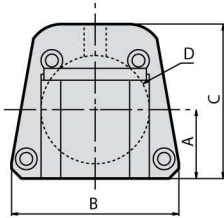
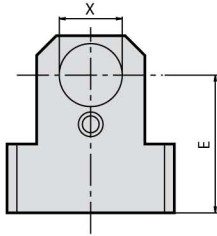
● Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	H	Order No.
A-12	55	ER20 1-13	35	6000	39	30	58	63	25.8	DA55-ER20
	55	ER32 2-20	50	6000	42	33	58	63	25.8	DA55-ER32



BORING BAR HOLDER

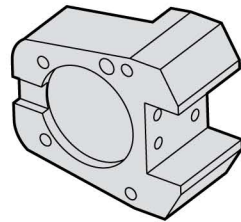
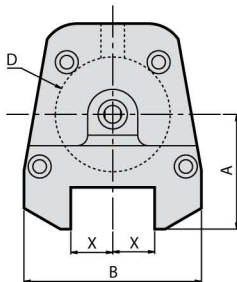
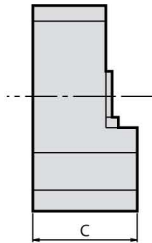
TYPE WASINO A12



- External, internal coolant supply

Models	D	X	A	B	C	E	Order No.
A-12	55	25	35	85	78.5	70	A12-B25
	55	32	35	85	78.5	70	A12-B32

TURNING HOLDER



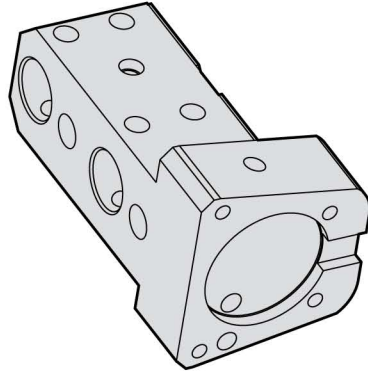
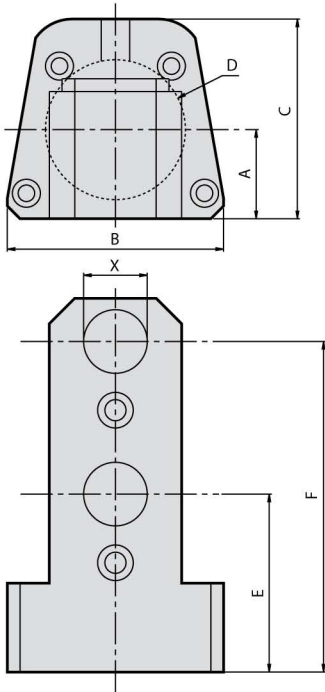
- External coolant supply

Models	D	X	A	B	C	Order No.
A-12	55	16	55	85	50	A12-T16
	55	20	55	85	50	A12-T20
	55	25	60	85	50	A12-T25



DOUBLE BORING BAR HOLDER

TYPE WASINO A12



- External, internal coolant supply

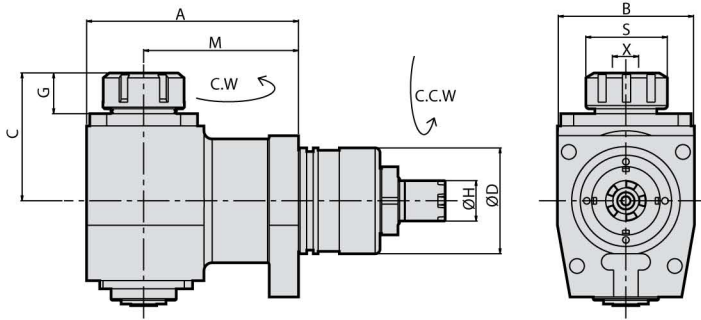
Models	D	X	A	B	C	E	F	Order No.
A-12	55	16	35	85	78.5	70	130	A12-B16X2
	55	25	35	85	78.5	70	130	A12-B25X2





RADIAL MILLING AND DRILLING HEADS

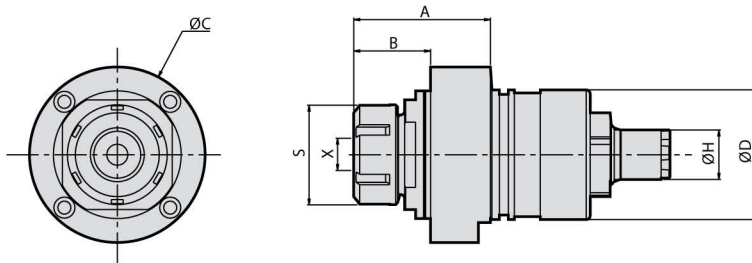
TYPE WASINO A18



- To be used for collet DIN 6499
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	G	M	H	Order No.
A-18	65	ER32 2-20	50	4000	130	84	78	25	95	24.8	DF65-ER32

AXIAL MILLING AND DRILLING HEAD



- To be used for collet DIN 6499
- Collet is not included

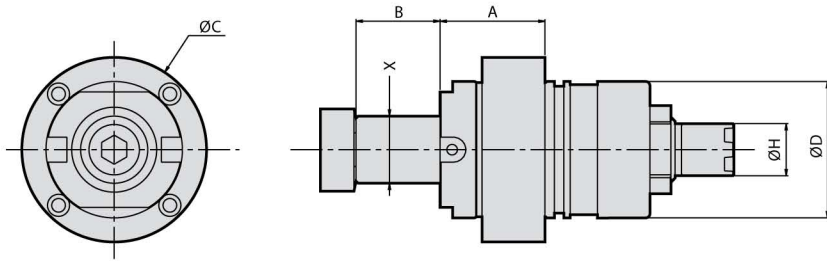
Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	H	Order No.
A-18	65	ER20M 1-13	28	6000	120	90	88	24.8	DA65-90L-ER20M
	65	ER25 1-16	40	6000	109	70	88	24.8	DA65-80L-ER25
	65	ER32 2-20	50	6000	68.5	38.5	88	24.8	DA65-ER32
	65	ER32 2-20	50	6000	121	91	88	24.8	DA65-90L-ER32





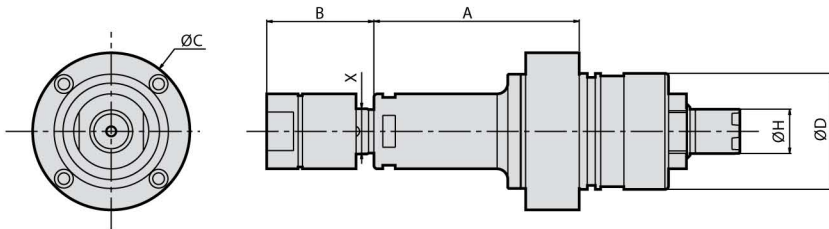
AXIAL FACE MILLING HEAD

TYPE WASINO A18



Models	D	X Capacity	Maximum R.P.M.	A	B	C	H	Order No.
A-18	65	32	4000	50	40	88	24.8	DA65-FM32
	65	32	4000	75	40	88	24.8	DA65-FM32-75L
	65	22	4000	60	53	88	24.8	DA65-FM22-60L

AXIAL SIDE CUTTER HEAD

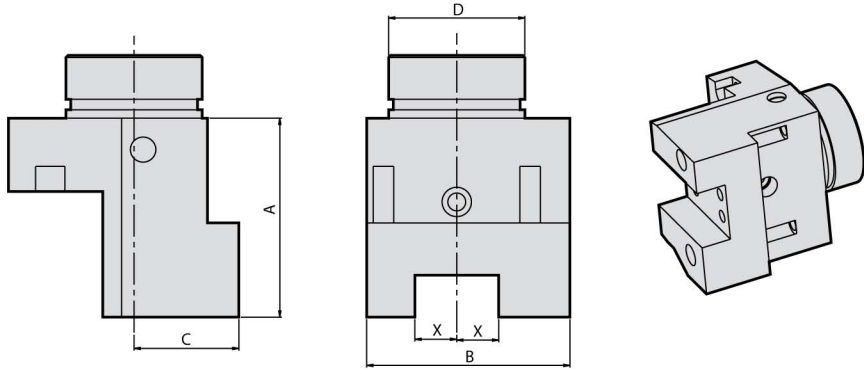


Models	D	X Capacity	Maximum R.P.M.	A	B	C	H	Order No.
A-18	65	25.4	4000	115	60	88	24.8	DA65-SC25.4-115
	65	22	4000	90	52	88	24.8	DA65-SC22-90
	65	16	4000	115	50	88	24.8	DA65-SC16-115



FACING HOLDER

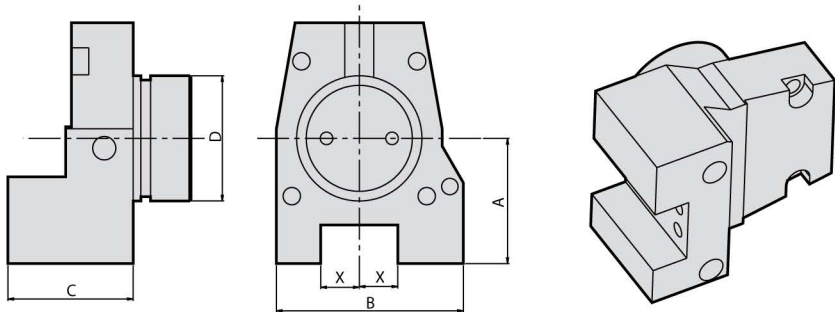
TYPE WASINO A18



- External coolant supply

Models	D	X	A	B	C	Order No.
A-18	65	20	95	97	50	A18-F20

TURNING HOLDER



- External coolant supply

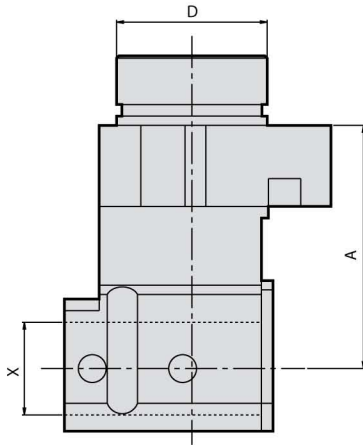
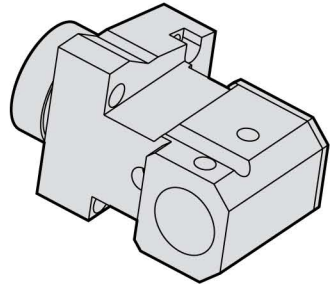
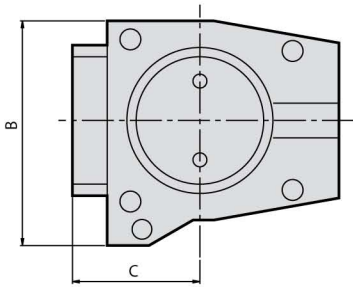
Models	D	X	A	B	C	Order No.
A-18	65	20	65	97	65	A18-T20





BORING BAR AND U DRILL HOLDER

TYPE WASINO A18



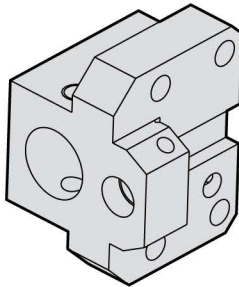
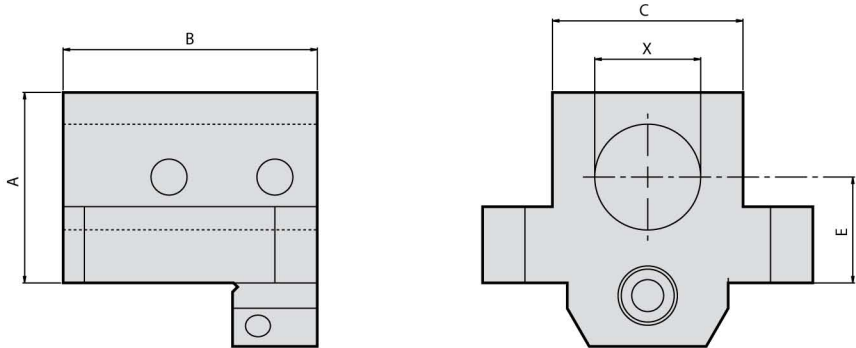
- External, internal coolant supply

Models	D	X	A	B	C	Order No.
A-18	65	32	105	97	55	A18-B32
	65	40	105	97	55	A18-B40
	65	40	105	97	-5	A18-B40-BK50



BORING BAR HOLDER

TYPE WASINO J1



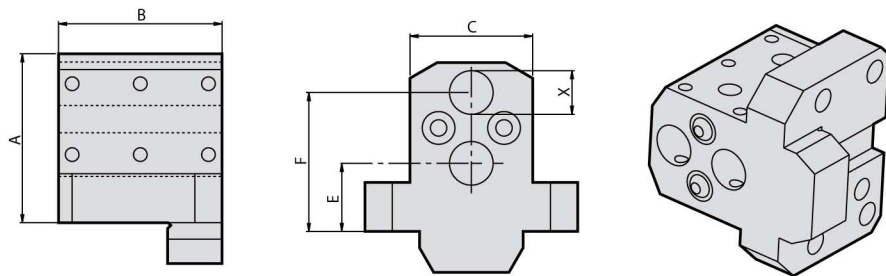
- External, coolant supply

Models	X	A	B	C	E	Order No.
J-1	25	45	60	45	25	J1-B25



DOUBLE BORING BAR HOLDER

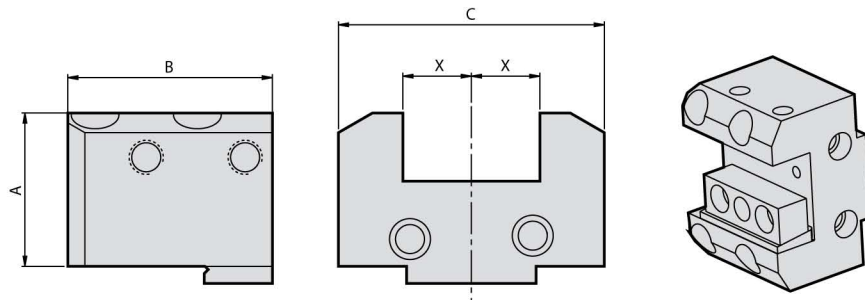
TYPE WASINO J1



- External, internal coolant supply

Models	X	A	B	C	E	F	Order No.
J-1	16	62	60	45	25	51	J1-B16X2

FACING HOLDER



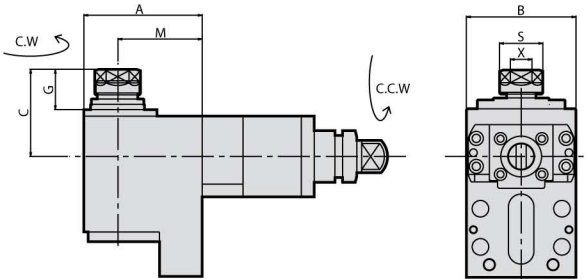
- External, coolant supply

Models	X	A	B	C	Order No.
J-1	20	45	60	78.5	J1-F20



RADIAL MILLING AND DRILLING HEAD

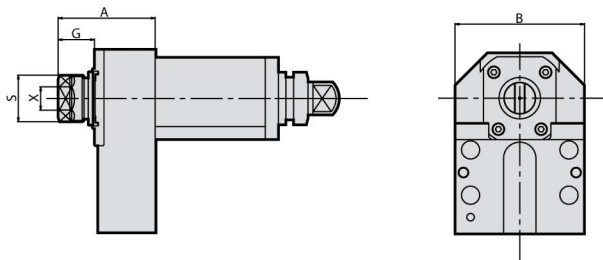
TYPE MORI SEIKI



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	X Capacity	S	Maximum R.P.M.	A	B	C	G	M	Order No.
SL150 DL150 ZL150	1-13 ER20	35	4000	65	86	69.5	28	37.5	E150-32106
SL200 SL250 ZL200	2-20 ER32	50	4000	93	100	92.5	35	55	E250-32114

AXIAL MILLING AND DRILLING HEAD



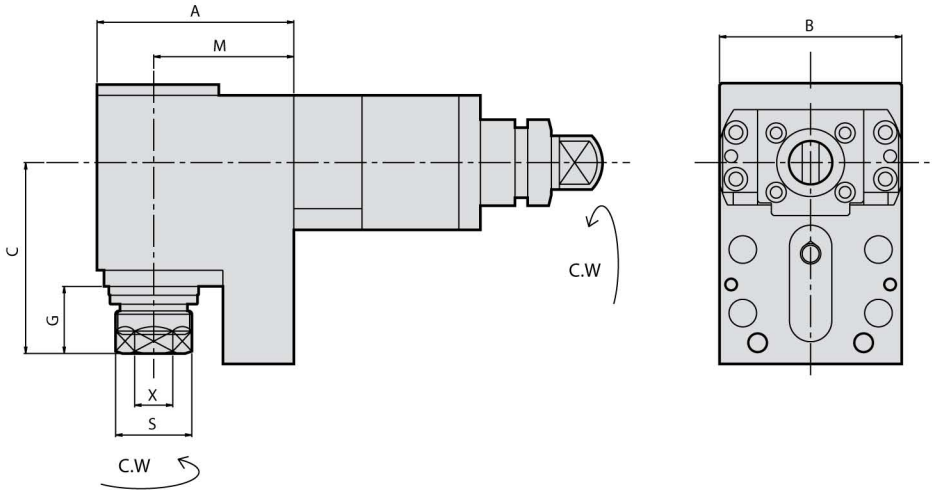
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	X Capacity	S	Maximum R.P.M.	A	B	G	Order No.
SL150 DL150 ZL150	1-13 ER20	35	6000	52	86	18	E150-0105
SL200 SL250 ZL200	2-20 ER32	50	6000	61	100	31	E250-3115



RADIAL MILLING AND DRILLING HEAD (SPINDLE 2)

TYPE MORI SEIKI



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

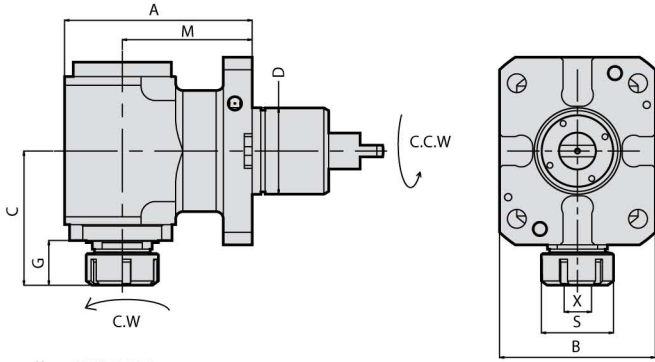
Models	X Capacity	S	Maximum R.P.M.	A	B	C	G	M	Order No.
DL151	1-13 ER20	35	4000	95	86	96	32	67.5	E151-32160
DL151	1-16 ER25	42	4000	95	86	96	32	67.5	E151-32161
SL150 DL150 ZL150	1-13 ER20	35	4000	87	86	91.5	27	67.5	E150-32110
SL200 SL250 ZL200	2-20 ER32	50	4000	97	100	95	35	60	E250-32121





RADIAL MILLING AND DRILLING HEAD

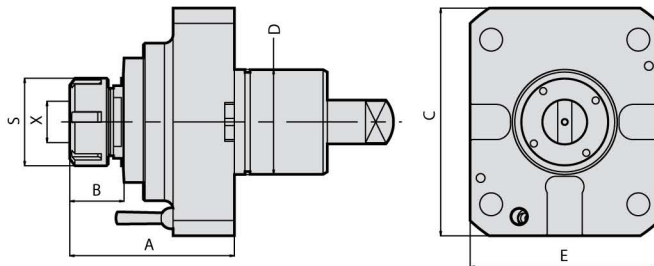
TYPE MORI SEIKI



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	G	M	Order No.
NL1500/2000 NL2500/3000	60	2-20 ER32	50	4000	130	108	93	31	90	E1500-T32207

AXIAL MILLING AND DRILLING HEAD



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

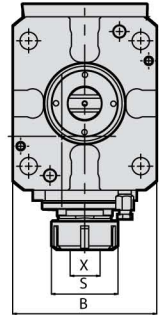
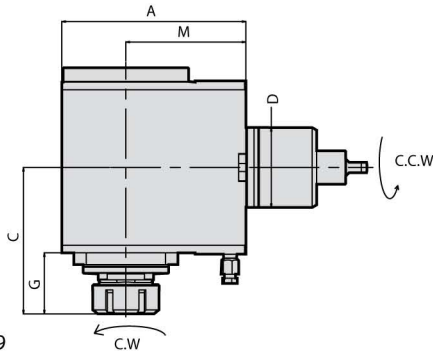
Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	Order No.
NL1500/2000 NL2500/3000	60	2-20 ER32	50	6000	94	31	130	108	E1500-T32208





RADIAL MILLING AND DRILLING HEAD HEAVY CUTTING

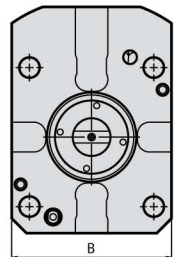
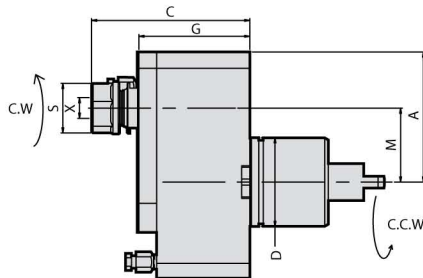
TYPE MORI SEIKI



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	G	M	Order No.
NL1500/2000 NL2500/3000	60	2-20 ER32	50	4000	136	108	110	37	90	E1500-TA-T32207

AXIAL MILLING AND DRILLING HEAD OFFSET



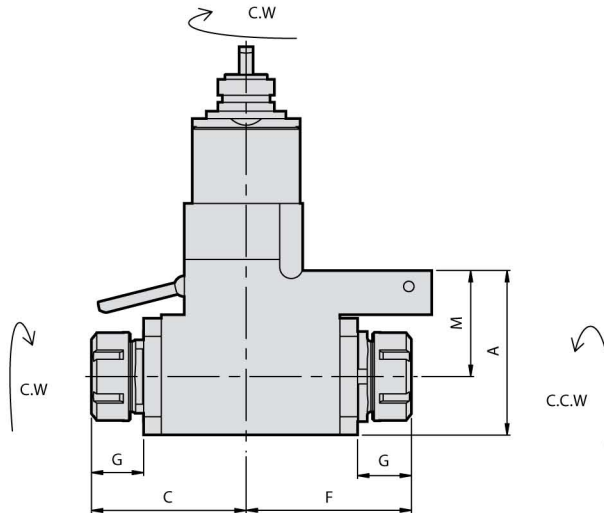
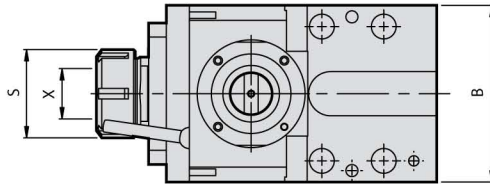
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	G	M	Order No.
NL1500/2000 NL2500/3000	60	1-13 ER20	35	4000	88	108	106	75	50	E1500-OFF50-ER20
		1-16 ER25	42	4000	88	108	108	75	50	E1500-OFF50-ER25



RADIAL MILLING AND DRILLING HEAD DOUBLE HEADS

TYPE MORI SEIKI



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

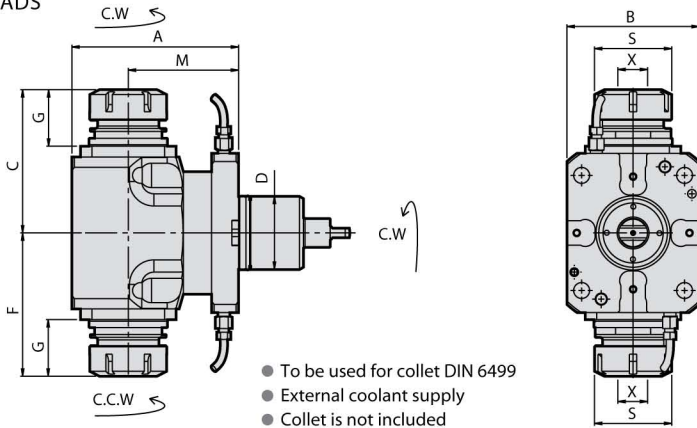
Models	X Capacity	S	Maximum R.P.M.	A	B	C	F	G	M	Order No.
SL200 SL250 ZL200	2-20 ER32	50	4000	93	100	87.5	93.5	30	60	E250-32136





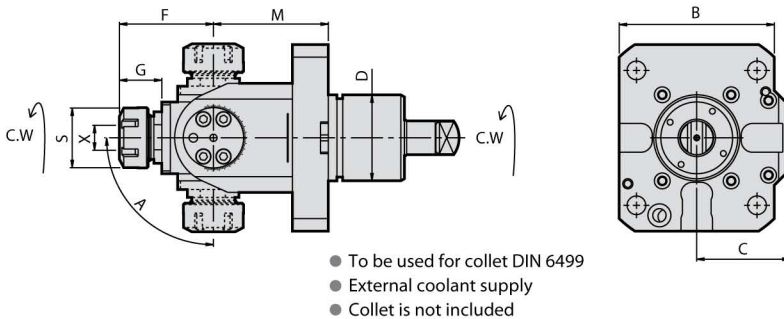
RADIAL MILLING AND DRILLING HEAD DOUBLE HEADS

TYPE MORI SEIKI



Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	F	G	M	Order No.
NL1500/2000	60	2-20 ER32	38	4000	130	108	87	87	23	90	E1500-T32216-32A
NL2500/3000	60	2-20 ER32	50	4000	136	108	110	110	39	90	E1500-TA-T32216-32
	60	3-26 ER40	63	4000	136	108	117	117	46	90	E1500-TA-T32216-40

ANGULAR HEAD

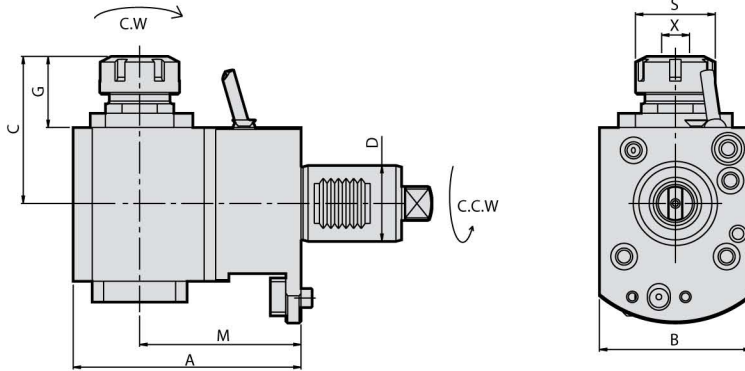


Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	F	G	M	Order No.
NL1500/2000 NL2500/3000	60	1-16 ER25	42	4000	± 90°	108	65	65.5	29.5	80	E1500-T602580-25B



RADIAL MILLING AND DRILLING HEAD

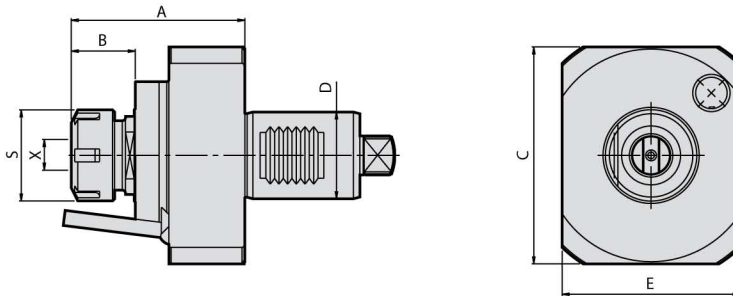
TYPE MORI SEIKI



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	G	M	Order No.
NZ1500 NZ2000	40	1-16 ER25	42	4000	120	80	77.5	30	85	T32473A02

AXIAL MILLING AND DRILLING HEAD



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

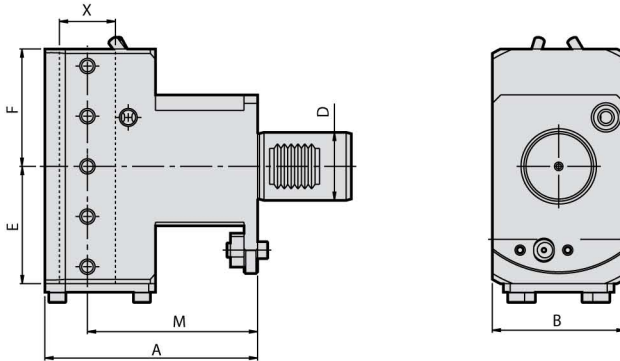
Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	Order No.
NZ1500 NZ2000	40	1-16 ER25	42	6000	80	29.5	100	82	T32473A01





BORING BAR HOLDER

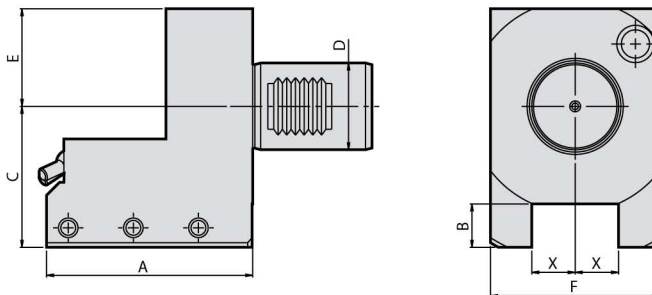
TYPE MORI SEIKI



- Internal coolant supply
- External, internal coolant supply

Models	D	A	B	E	F	X	M	Order No.
NZ1500	30	112	70	69	69	32	85	T32408A07
NZ2000	40	125	78	69	69	32	100	T12080A01

TURNING HOLDER



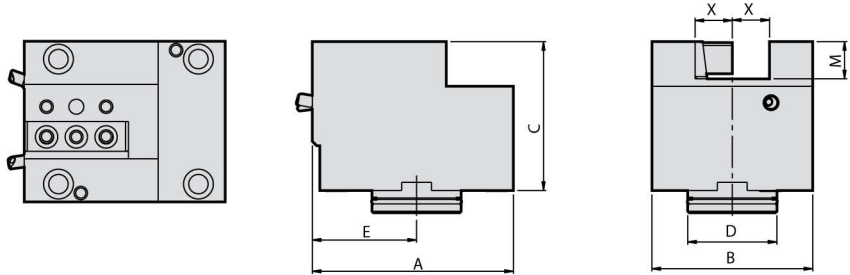
- External coolant supply

Models	D	A	B	C	E	F	X	Order No.
NZ1500	40	95	20	65	45	78	20	T00276A01
NZ2000								



FACING HOLDER

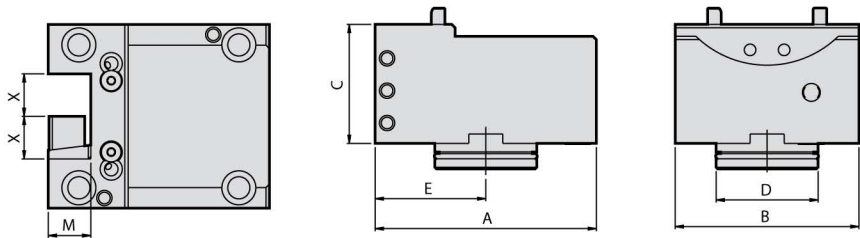
TYPE MORI SEIKI



- External coolant supply

Models	D	A	B	C	E	M	X	Order No.
NL1500/2000 NL2500/3000	59.9	135	108	100	70	25	25	T03005-F25

TURNING HOLDER



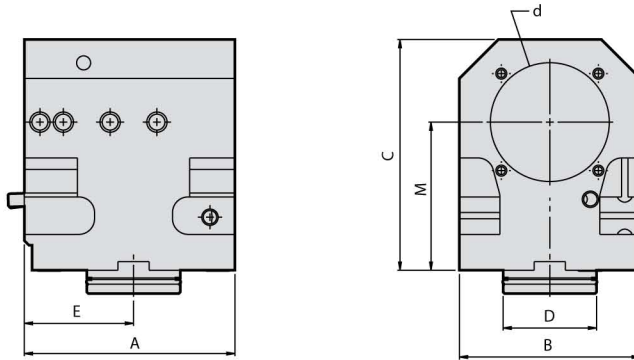
- External coolant supply

Models	D	A	B	C	E	M	X	Order No.
NL1500/2000 NL2500/3000	59.9	130	108	70	65	25	25	T00186A10-C25



BORING BAR HOLDER

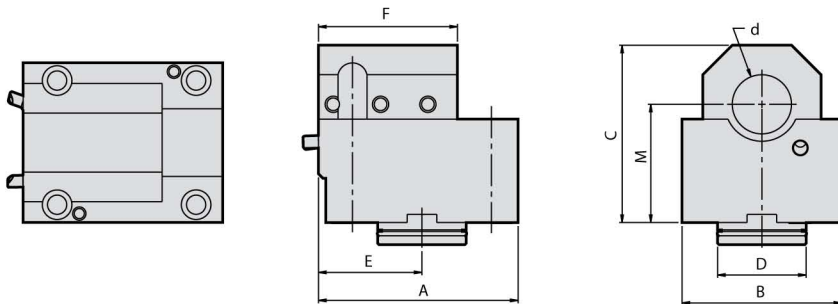
TYPE MORI SEIKI



- External, internal coolant supply

Models	D	A	B	C	E	M	d	Order No.
NL1500/2000 NL2500/3000	59.9	135	116	148	70	95	76.2	T10097B06-76.2

BORING BAR HOLDER



- External, internal coolant supply

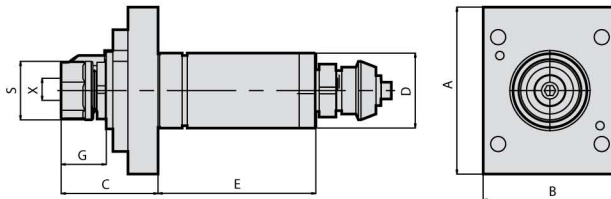
Models	D	A	B	C	E	F	M	d	Order No.
NL1500/2000 NL2500/3000	59.9	135	108	120	70	94	80	40	T10097B06-40





AXIAL MILLING AND DRILLING HEAD

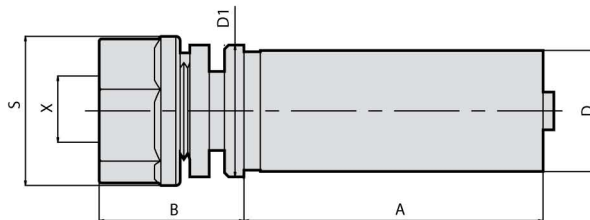
TYPE MIYANO



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	G	Order No.
BNE-34S BNE-51S	38	1-13 ER20	35	6000	70	74	60	57	28	DA38-ER20
BNE	45	1-13 ER20	35	6000	92	72	47	81	25	DA45-ER20
BNE	45	1-16 ER25	42	6000	92	72	53	81	31	DA45-ER25
BND-51	45	1-13 ER20	35	6000	86	80	55	44.5	28	DA45-ER20-S
BNJ-42S	45	1-13 ER20	35	6000	92	72	50	116	28	DA45-BNJ-ER20

AUTO TAPPER TYPE HOLDER



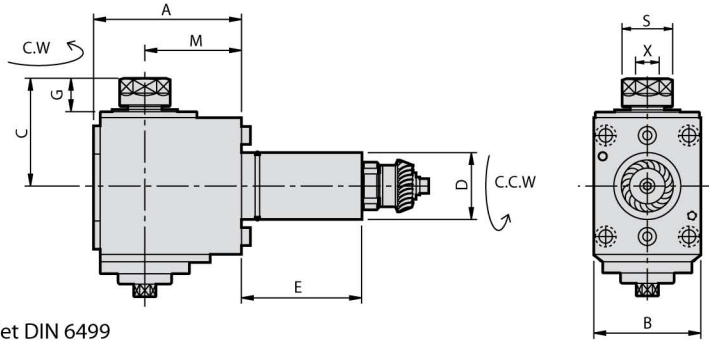
D	X Capacity	S	A	B	D1	Order No.
25	1-10 ER16	30	70.5	30	30	TE-Ø25-ER16
32	1-13 ER20	35	65	40	37	TE-Ø32-ER20
40	1-16 ER25	42	75	43	45	TE-Ø40-ER25
50	2-20 ER32	50	85	48	55	TE-Ø50-ER32





RADIAL MILLING AND DRILLING HEAD

TYPE MIYANO

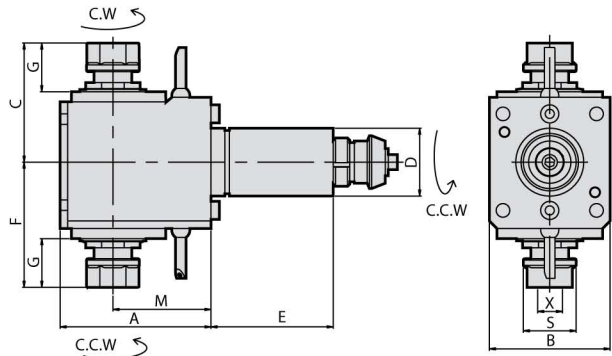


- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	G	M	Order No.
BNE	45	1-13 ER20	35	4000	95	72	74	81	24.5	65	DF45-ER20
BNE	45	1-16 ER25	42	4000	95	72	79	81	25.5	65	DF45-ER25
BND-51	45	1-16 ER20	35	4000	95	80	72	44.5	25	70	DF45-ER20-S
BNJ-42S	45	1-13 ER20	35	4000	95	72	74	116	24.5	65	DF45-BNJ-ER20

RADIAL MILLING AND DRILLING HEAD

DOUBLE HEAD



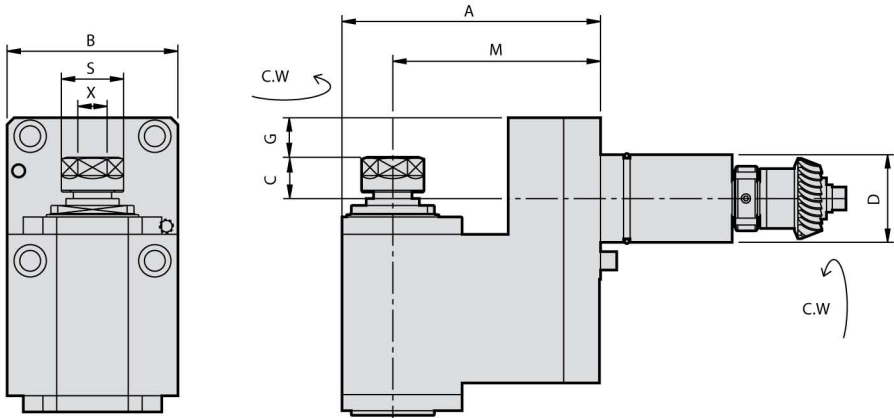
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	F	G	M	Order No.
BNE	45	1-13 ER20	35	4000	100	80	79	83	81	32.5	65	DF45-20-65D



RADIAL MILLING AND DRILLING HEAD
 SET BACK

TYPE MIYANO



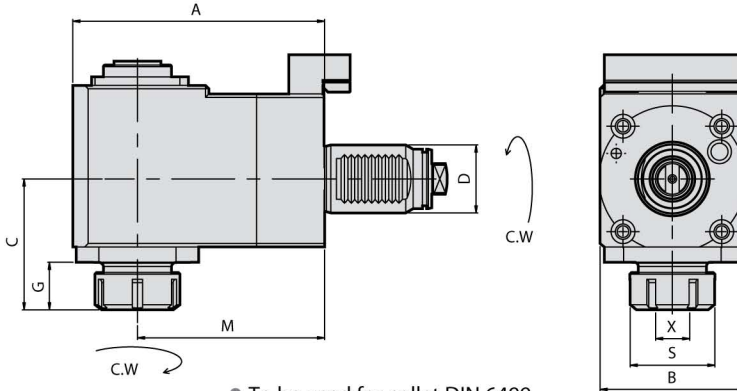
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	G	M	Order No.
BNE-34S BNE-51S	38	1-13 ER20	35	3500	112	74	18	17	90	DB38-ER20



RADIAL MILLING AND DRILLING HEAD

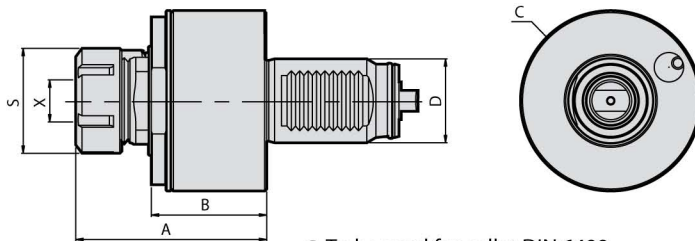
TYPE MURATEC



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	G	M	Order No.
MT20	40	2-20 ER32	50	4000	148	85	77	28	110	FR40-M-1809-110

AXIAL MILLING AND DRILLING HEAD



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

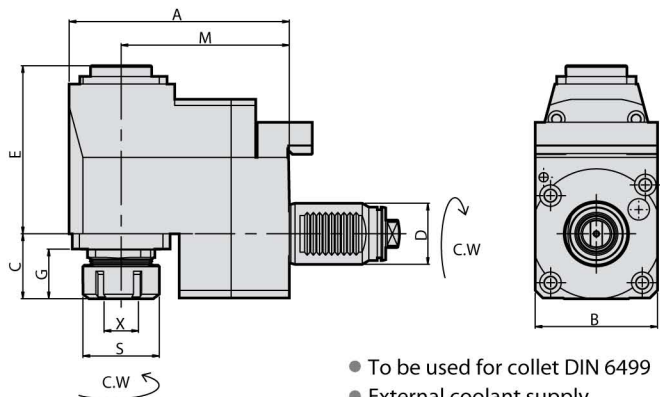
Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	Order No.
MT20 MT25	40	2-20 ER32	50	6000	91	55	86	DA40-M-1809ER32



RADIAL MILLING AND DRILLING HEAD

TYPE MURATEC

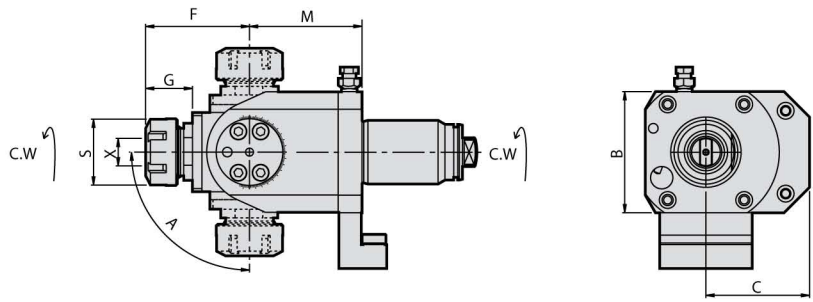
SET BACK



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	G	E	M	Order No.
MT20	40	2-20 ER32	50	4000	146	80	44	32	97	110	BR40-M-1809-110
MT25	40	2-20 ER32	50	4000	180	92	58.4	33.5	99	140	BR25-BR40-32-140

ANGULAR HEAD



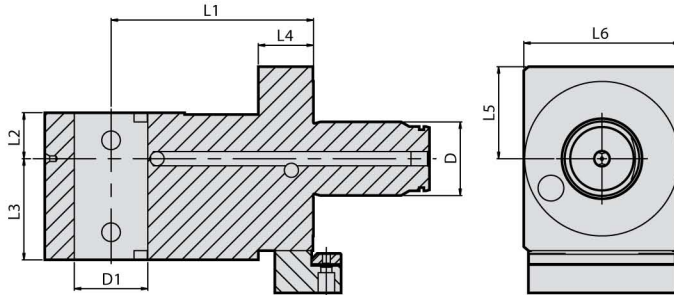
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	G	E	M	Order No.
MT20 MT25	40	1-16 ER25	42	4000	± 90°	76	65	29	65	70	MT20-DA40-25B



DOUBLE BORING BAR HOLDER

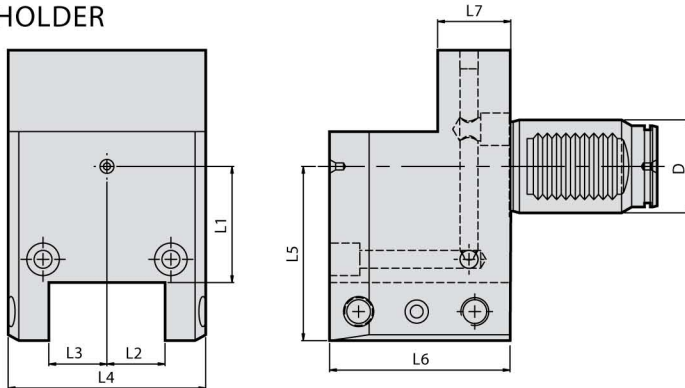
TYPE MURATEC



- External, internal coolant supply

Models	D	D1	L1	L2	L3	L4	L5	L6	Order No.
MT20	40	40	110	25	55	30	50	85	MU40-40B-110
MT25	40	40	140	25	55	30	40	86	MT25-MU40-40B-140

TURNING HOLDER



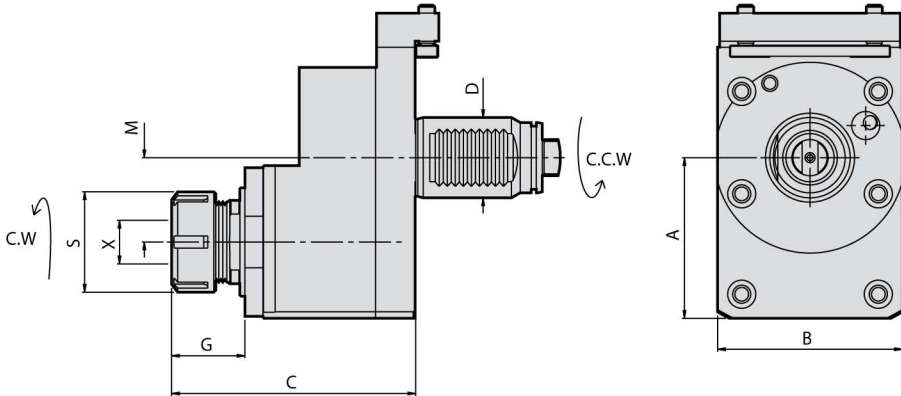
- External coolant supply

Models	D	L1	L2	L3	L4	L5	L6	L7	Order No.
MT20	40	50	25	25	85	75	78	31.5	MU40-25T
MT25	40	25	25	25	86	50	112	32	MT25-MU40-25T



AXIAL MILLING AND DRILLING HEAD OFFSET

TYPE MURATEC



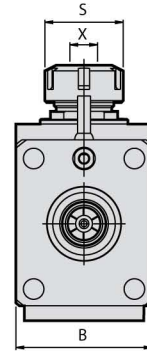
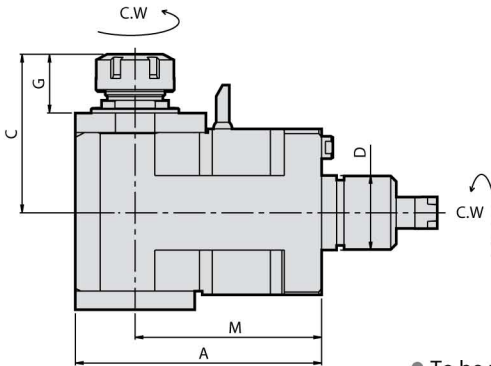
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	G	M	Order No.
MT25	40	2-20 ER32	50	5000	80	92	121	36	42	MT25-DA40-32-42



RADIAL MILLING AND DRILLING HEAD

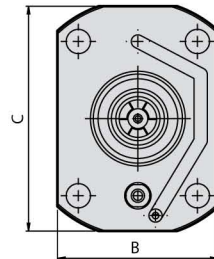
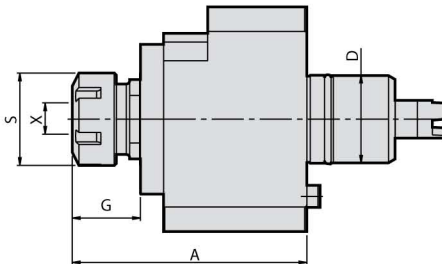
TYPE MURATEC



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	G	M	Order No.
MT6	40	1-16 ER25	42	4000	132	73	85	31	100	MT6-MDF40-25-100

AXIAL MILLING AND DRILLING HEAD



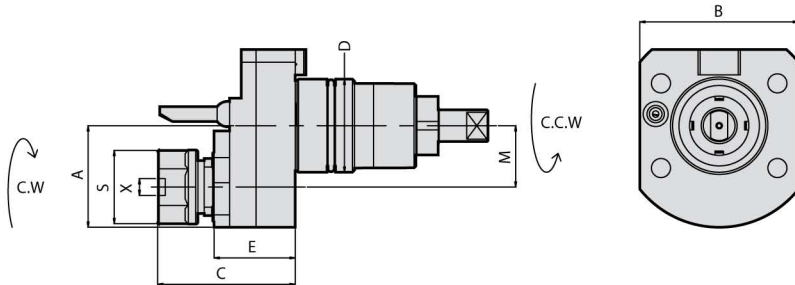
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	G	Order No.
MT6	40	1-16 ER25	42	6000	106	73	102	31	MT6-MDA40-ER25



AXIAL MILLING AND DRILLING HEAD

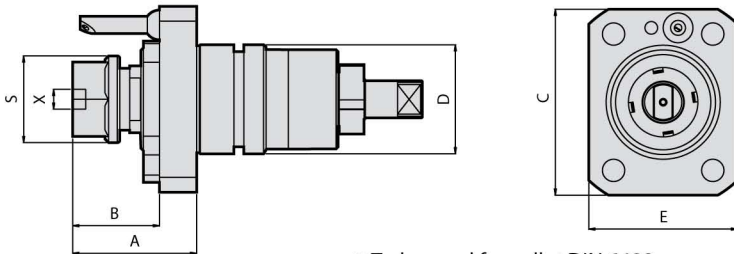
TYPE NAKAMURA



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	I	A	B	C	E	M	Order No.
WT-100	44	1-13 ER20	35	4000	1:2	48	75	65	38.4	29	DA44NA-20-29/1

AXIAL MILLING AND DRILLING HEAD



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

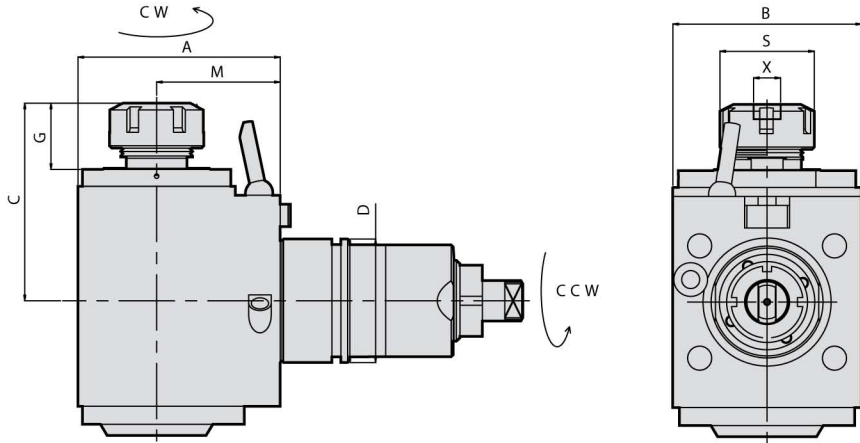
Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	Order No.
WT-100	44	2-20 ER32	35	6000	50	35	75	60	DA44NA-ER20
WT-150	55	1-16 ER25	42	6000	50	35	84	79	DA55NA-ER25
WT-300	65	2-20 ER32	50	6000	56.5	34	100	96	DA65NA-ER32





RADIAL MILLING AND DRILLING HEAD

TYPE NAKAMURA



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

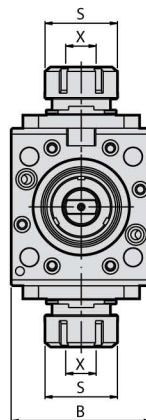
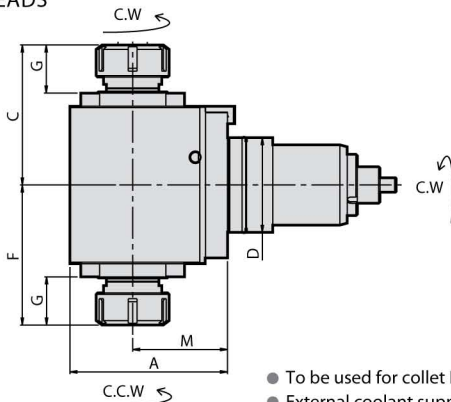
Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	G	M	Order No.
WT-100	44	1-13 ER20	35	4000	86	75	78.5	25	60	DF44NA-20-60
WT-150	55	1-16 ER25	42	4000	90	84	88	30	55	DF55NA-25-55
WT-300	65	2-20 ER32	50	4000	108	96	96	33	65	DF65NA-32-65



RADIAL MILLING AND DRILLING HEAD

TYPE NAKAMURA

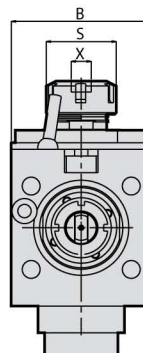
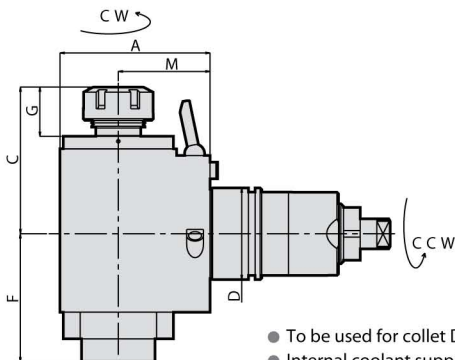
DOUBLE HEADS



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	F	G	M	Order No.
WT-300	65	2-20 ER32	50	4000	108	96	96	96	33	65	DF65NA-32-65D

RADIAL MILLING AND DRILLING HEAD



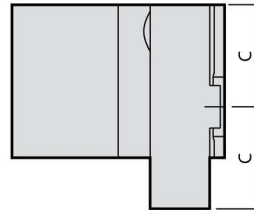
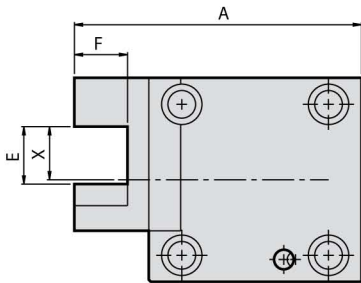
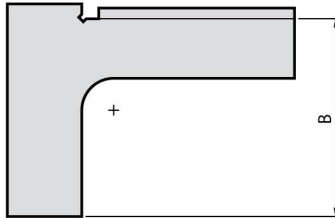
- To be used for collet DIN 6499
- Internal coolant supply
- External coolant supply
- Collet is not included.

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	F	G	M	Order No.
WT-150	55	1-16 ER25	42	4000	96	84	88	80	30	55	CW-DF55NA-25-55



CUTTING HOLDER

TYPE NAKAMURA



- External coolant supply

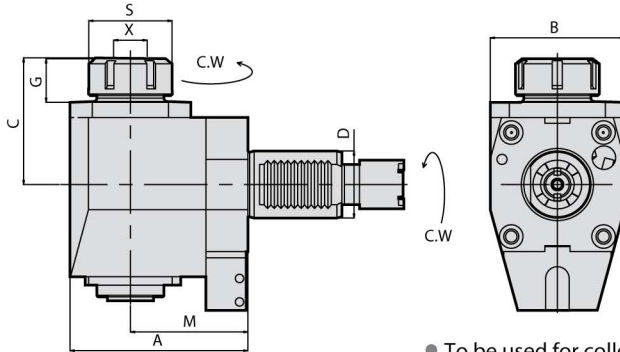
Models	X	A	B	C	E	F	Order No.
WT-100	25	98	66	39.5	21	20	R21430
WT-150	25	112	93	44	26	25	R1432
WT-300	25	135	93	48	27	25	W2431





RADIAL MILLING AND DRILLING HEAD

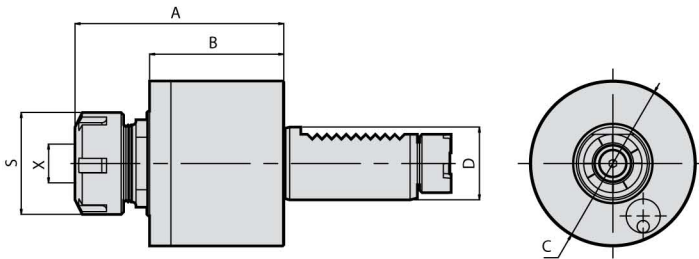
TYPE OKUMA



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	G	M	Order No.
L300M	40	2-20 ER32	50	4000	106	80	75	26	70	OK-FL40-32-70

AXIAL MILLING AND DRILLING HEAD



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

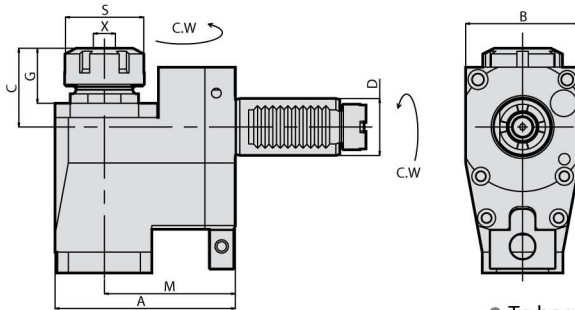
Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	Order No.
LB200	30	1-13 ER20	35	6000	84.5	57	68	OK-DA30-ER20
LB200	30	1-16 ER25	42	6000	86	55	68	OK-DA30-ER25
L300M	40	2-20 ER32	50	6000	106	74	86	OK-DA40-ER32





RADIAL MILLING AND DRILLING HEAD

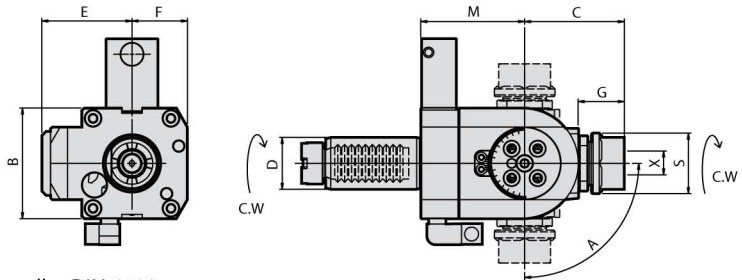
TYPE OKUMA



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	G	M	Order No.
LB200	30	1-13 ER20	35	4000	95	60	40.5	28	69	OK-BL30-20-69
LB200	30	1-16 ER25	42	4000	95	60	41.5	29	69	OK-BL30-25-69
L300M	40	2-20 ER32	50	4000	124	80	42.5	29	90	OK-BL40-32-90

ANGULAR HEAD



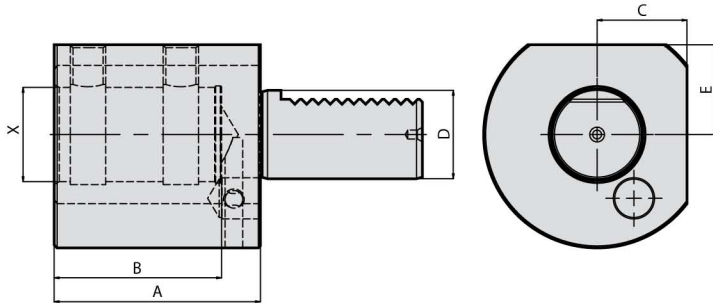
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	F	G	M	Order No.
LB200	30	1-13 ER20	35	4000	±90°	64	59	54	32	27	67	OK-DA30-20B
L300M	40	1-16 ER25	42	4000	±90°	76	65	65	38	29	70	OK-DA40-25B



BORING BAR HOLDER

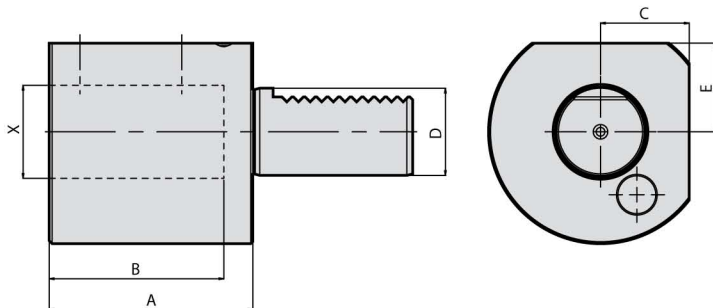
TYPE OKUMA



- Internal coolant supply

Models	D	X	A	B	C	E	Order No.
LB200	30	32	70	56.5	30.5	30.5	OK-4162-2707-90
L300M	40	40	75	60	34.5	34.5	OK-506-2300-40

BORING BAR HOLDER



- External, coolant supply

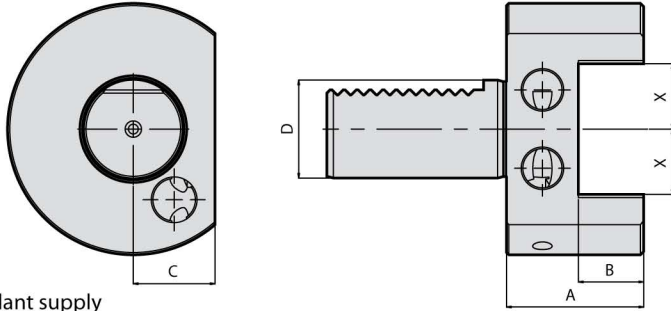
Models	D	X	A	B	C	E	Order No.
LB200	30	32	70	60	30.5	30.5	OK-4162-2704-90
L300M	40	40	75	65	34.5	34.5	OK-506-2300-28





TURNING HOLDER

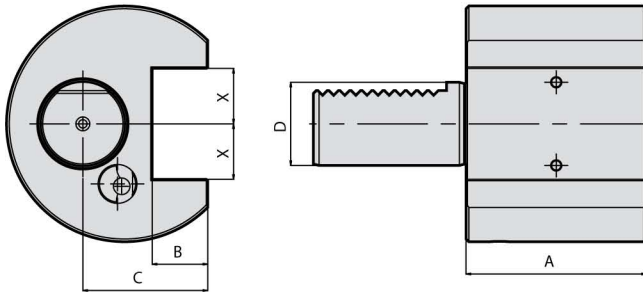
TYPE OKUMA



- External, coolant supply

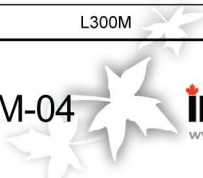
Models	D	X	A	B	C	Order No.
LB200	30	20	42	20	25	OK-A4162-2723-90
LB200	30	20	42	20	55	OK-B4162-2724-90
L300M	40	25	47	25	30	OK-535-2100-01
L300M	40	25	47	25	65	OK-535-2100-02

FACING HOLDER



- External, coolant supply

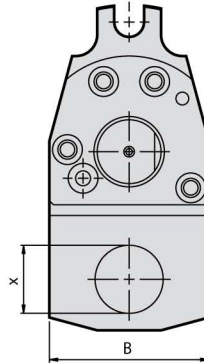
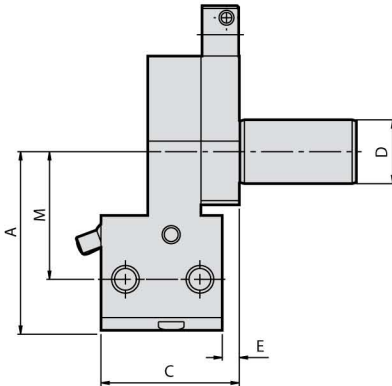
Models	D	X	A	B	C	Order No.
LB200	30	20	65	20	45	OK-C4162-2703-90
L300M	40	25	72	25	50	OK-C535-2100-03





BORING BAR HOLDER

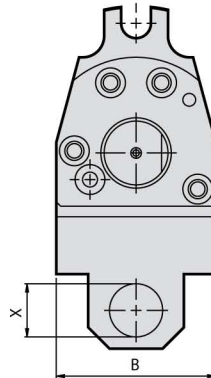
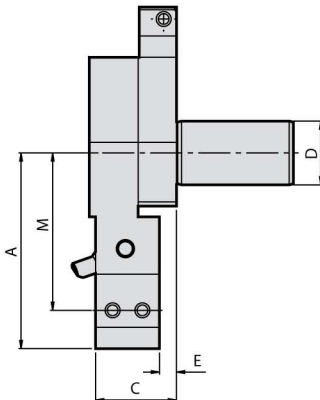
TYPE OKUMA



● External, internal coolant supply

Models	D	A	B	C	E	X	M	Order No.
LB200	30	84	75	65	8	32	60	OK-4167-2611-90

BORING BAR HOLDER



● External, internal coolant supply

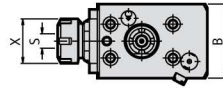
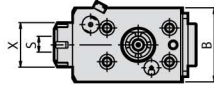
Models	D	A	B	C	E	X	M	Order No.
LB200	30	92	75	38	8	25	74	OK-4167-2612-90



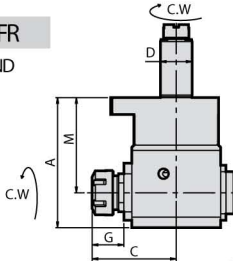


RADIAL MILLING AND DRILLING HEAD

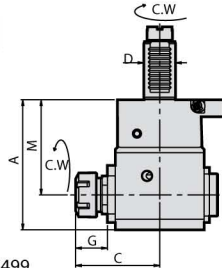
TYPE OKUMA



MODE: FR
LEFT-HAND



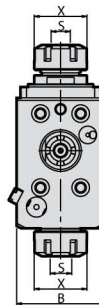
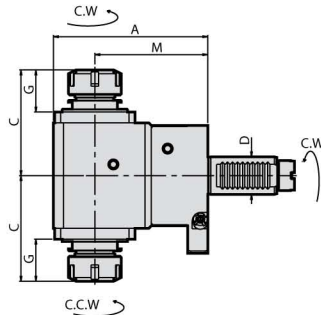
MODE: FL
LEFT-HAND



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	G	M	Order No.
LT200-MY	30	2-16 ER25	42	4000	123	70	79.5	30	90	OK-LT-FR30-25-90
LT200-MY	30	2-16 ER25	42	4000	123	70	79.5	30	90	OK-LT-FL30-25-90

RADIAL DRILLING AND MILLING HEAD DOUBLE HEADS



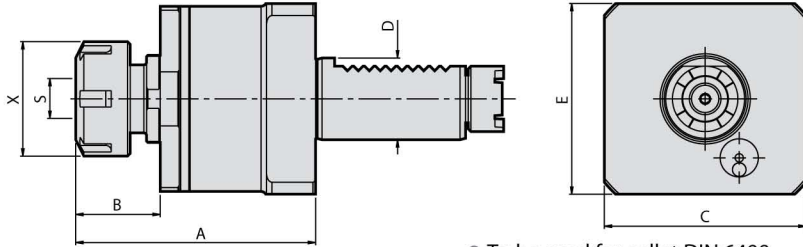
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	G	M	Order No.
LT200-MY	30	2-16 ER25	42	4000	123	70	84	33.5	90	OK-LT-DF30-25-90D



AXIAL MILLING AND DRILLING HEAD

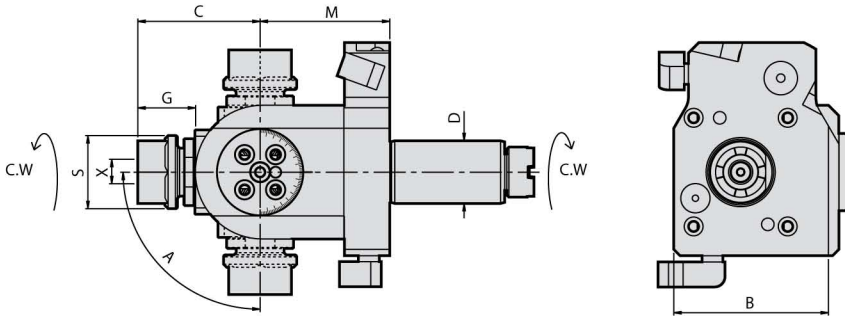
TYPE OKUMA



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	G	Order No.
LT200-MY	30	1-16 ER25	42	4000	88	31	74	70	OK-LT-DA30-ER25

ANGULAR HEAD



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	G	M	Order No.
LT200-MY	30	1-13 ER20	35	4000	±90°	74	59	27	67	OK-LT-DA30-20B



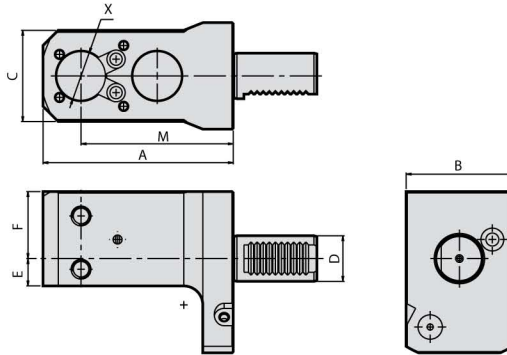


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BORING BAR HOLDER

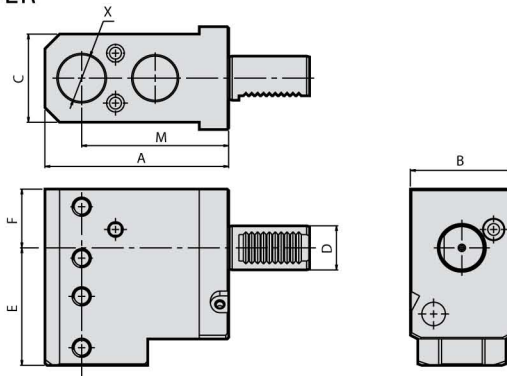
TYPE OKUMA



- Internal coolant supply
- External, internal coolant supply

Models	D	A	B	C	E	F	X	M	Order No.
LT200-MY	30	125	70	60	18	44	32	100	OK-LT-II-H32-100

BORING BAR HOLDER



- External, internal coolant supply

Models	D	A	B	C	E	F	X	M	Order No.
LT200-MY	30	125	70	60	80	40	32	100	OK-LT-I-H32-100L

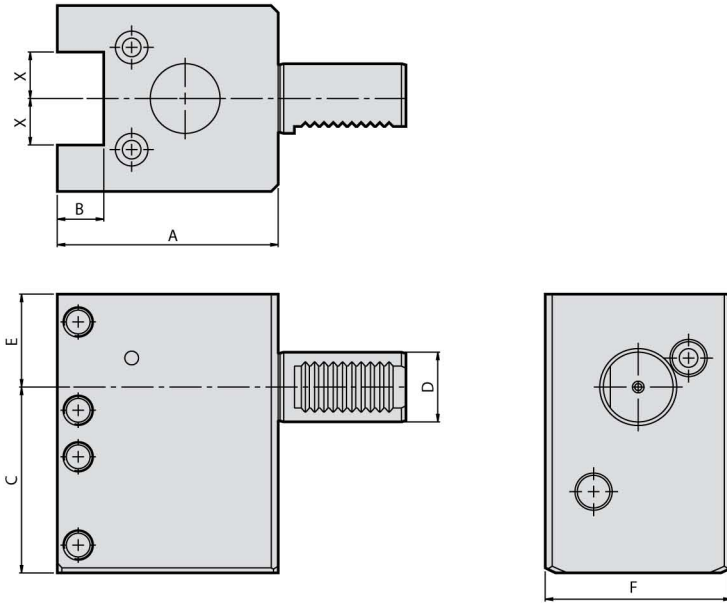
M-08

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FACING HOLDER

TYPE OKUMA



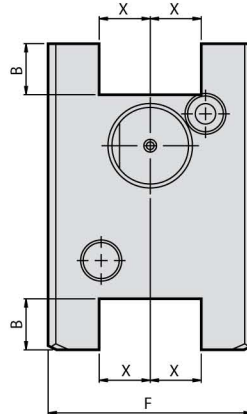
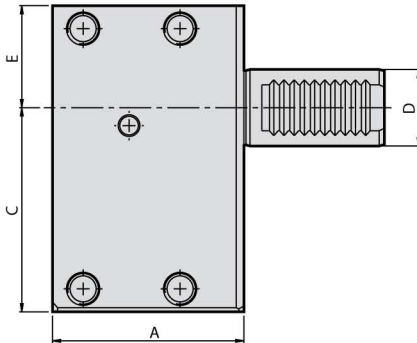
- External, coolant supply

Models	D	A	B	C	E	F	X	Order No.
LT200-MY	30	95	20	80	40	80	20	OK-LT-OD-20



TURNING HOLDER

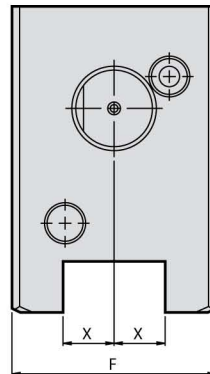
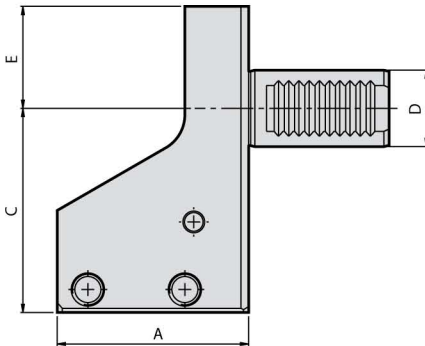
TYPE OKUMA



- External, coolant supply

Models	D	A	B	C	E	F	X	Order No.
LT200-MY	30	75	20	80	40	80	20	OK-LT-OD-I-D-20

TURNING HOLDER



- External, coolant supply

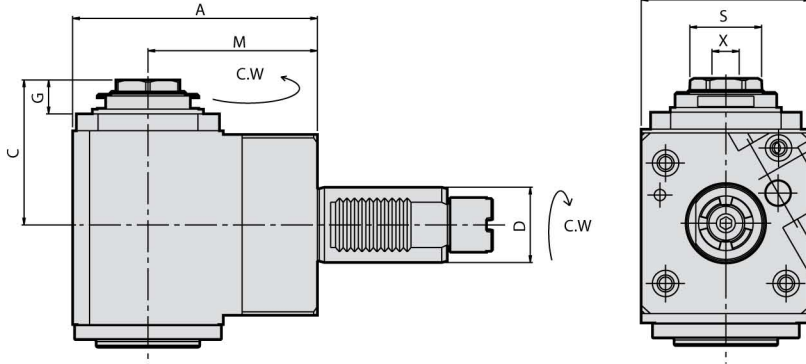
Models	D	A	B	C	E	F	X	Order No.
LT200-MY	30	75	20	80	40	80	20	OK-LT-OD-I-S-20





RADIAL MILLING AND DRILLING HEAD

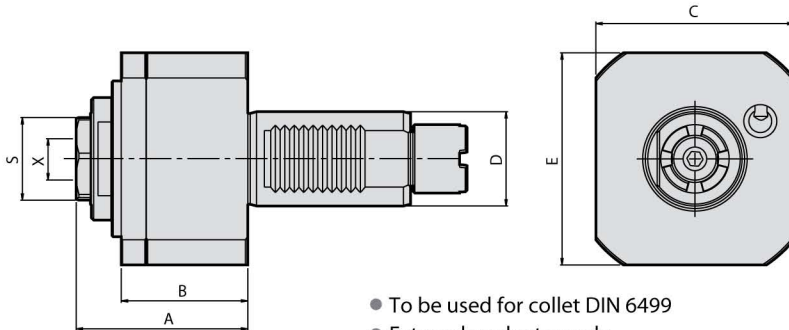
TYPE OKUMA



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	G	M	Order No.
LT15M/LT300 LT300MYW	40	2-20 ER32	38	4000	130	90	77	18	90	OK-LT-FL40-32A-90

AXIAL MILLING AND DRILLING HEAD



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

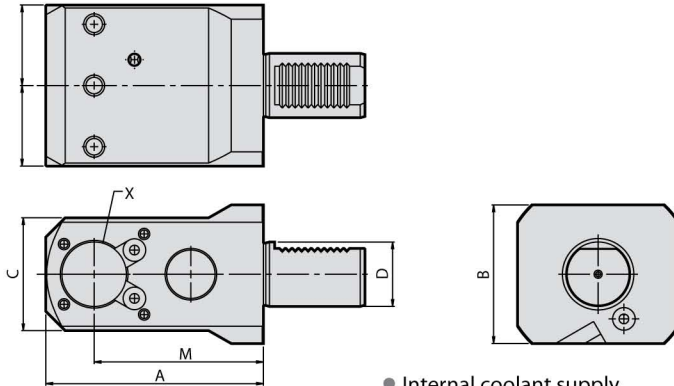
Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	G	Order No.
LT15M/LT300 LT300MYW	40	2-20 ER32	38	6000	74.5	55.6	84	90	OK-LT-DA40-32A





BORING BAR HOLDER

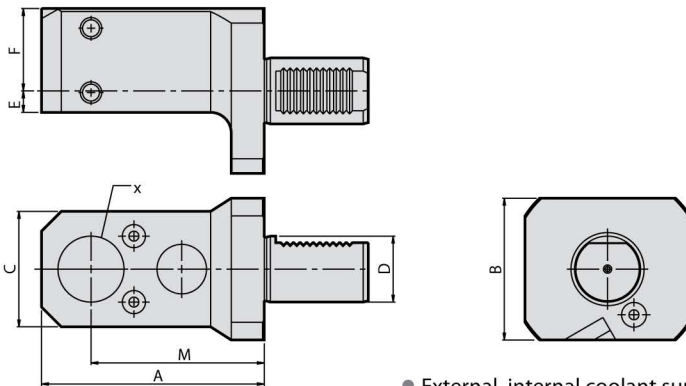
TYPE OKUMA



- Internal coolant supply
- External, internal coolant supply

Models	D	A	B	C	E	F	X	M	Order No.
LT15M/LT300 LB300-MYW	40	135	86	70	50	50	40	105	OK-LT-ID I-H40-100L

BORING BAR HOLDER



- External, internal coolant supply

Models	D	A	B	C	E	F	X	M	Order No.
LT15M/LT300 LB300-MYW	40	135	86	70	13	50	40	105	OK-LT-IDII-H40-105





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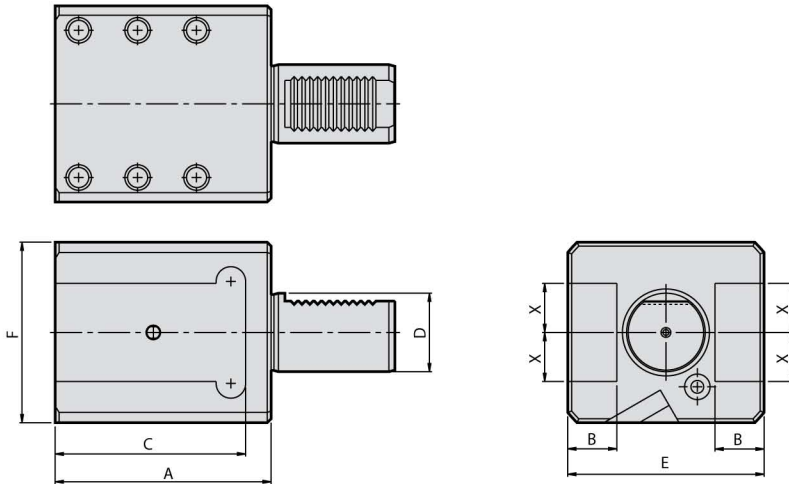
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TURNING HOLDER

TYPE OKUMA



- External, internal coolant supply

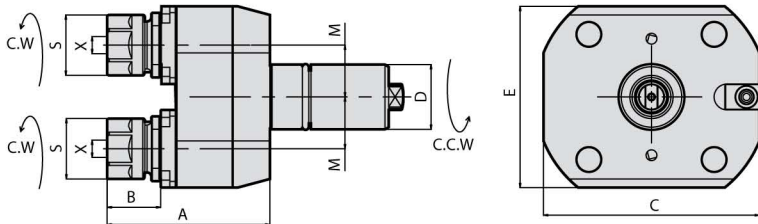
Models	D	A	B	C	E	F	X	Order No.
LT15M/LT300 LB300-MYW	40	110	25	97	100	92	25	OK-LT-ID I



AXIAL MILLING AND DRILLING HEAD

TYPE TAKAMAZ

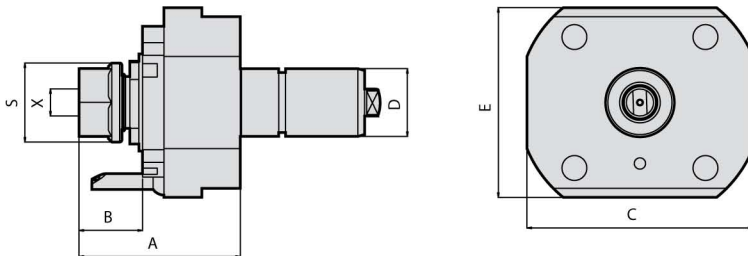
DOUBLE COLLETS, Y OFFSET



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	M	Order No.
XY-120	30	1-10 ER16	30	5000	75.5	25	100	84	24	TA-DA30-16-24D

AXIAL MILLING AND DRILLING HEAD



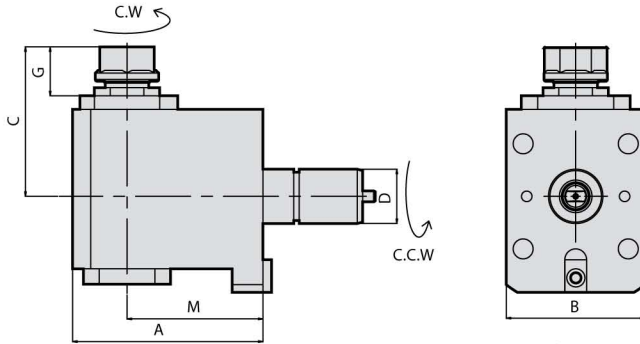
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	Order No.
XY-120	30	1-13 ER20	35	6000	71.5	28	100	84	TA-DA30-ER20



RADIAL MILLING AND DRILLING HEAD

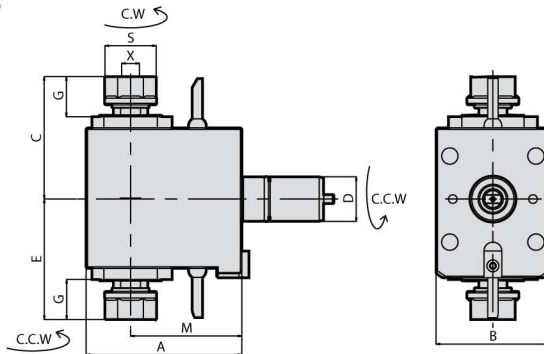
TYPE TAKAMAZ



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	G	M	Order No.
XY-120	30	1-13 ER20	35	4000	105	76.6	82.5	27	75	TA-DF30-20-75

RADIAL MILLING AND DRILLING HEAD DOUBLE HEAD



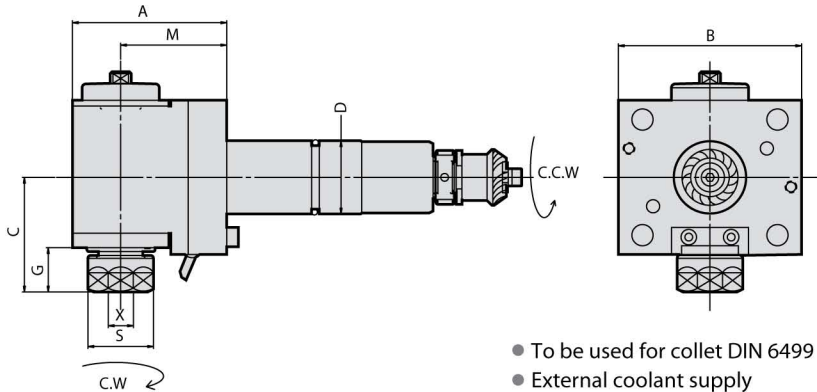
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	G	M	Order No.
XY-120	30	1-13 ER20	35	4000	105	76.6	82.5	81.2	27	75	TA-DF30-20-75D



RADIAL MILLING AND DRILLING HEAD

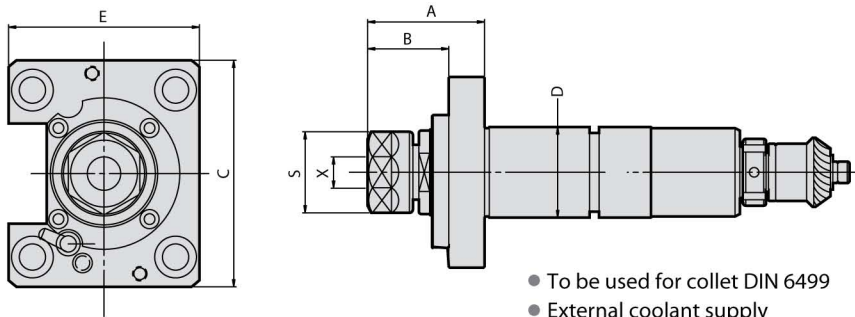
TYPE TAKAMAZ



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	G	M	Order No.
XY-12	38	1-13 ER20	35	4000	80	95	59.5	23	55	TA-DF38-20-55

AXIAL MILLING AND DRILLING HEAD



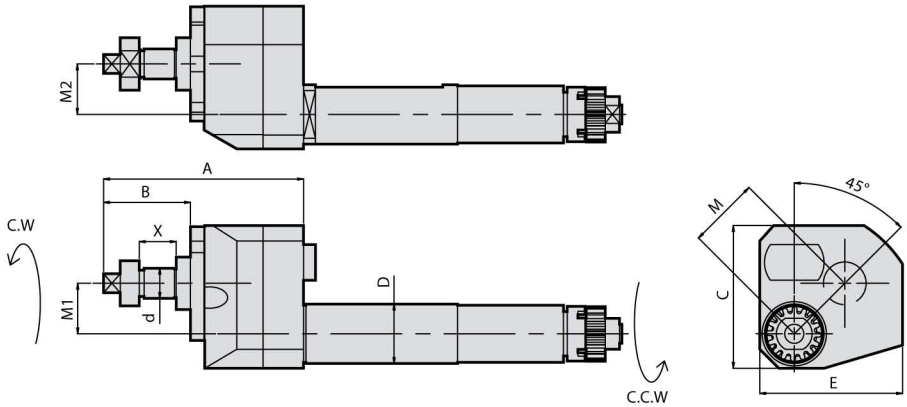
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	G	Order No.
XY-12	38	1-13 ER20	35	5000	49	34	95	80	TA-DA38-ER20



AXIAL MILLING HEAD

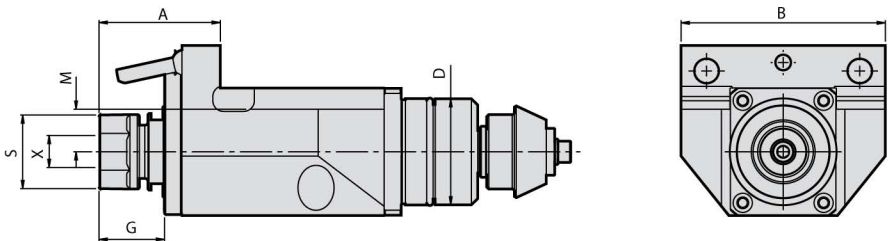
TYPE TAKAMAZ



- External coolant supply

D	X Capacity	d	Maximum R.P.M.	I	A	B	C	E	M	M1	M2	Order No.
25	14-15	12.7	4000	2:1	84	36.5	60	60	30	21.22	21.22	TA-DA25-OF30-12.7C

AXIAL DRILLING AND MILLING HEAD



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	G	M	Order No.
XY-180	50	1-13 ER20	35	5000	57	96	31	20	TA-DA50-ER20

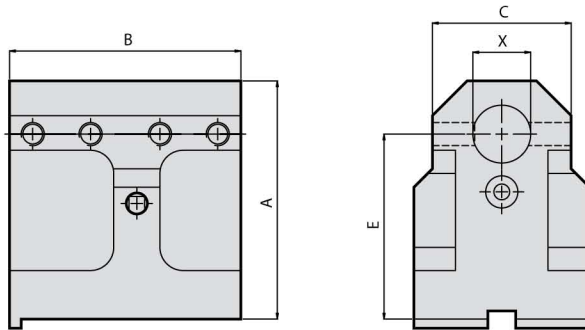




BORING BAR HOLDER

TYPE TAKAMAZ

DB25

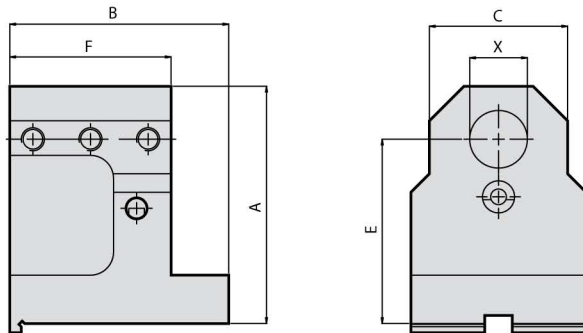


- External coolant supply

Models	X	A	B	C	E	Order No.
XY-120	25	103	100	60	80	TA-XY120-DB25

BORING BAR HOLDER

B25



- External coolant supply

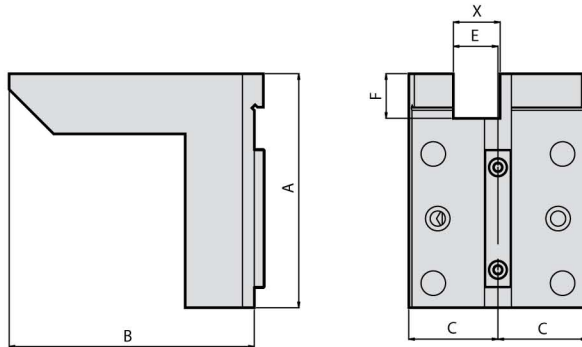
Models	X	A	B	C	E	F	Order No.
XY-120	25	103	95	60	80	70	TA-XY120-B25





CUTTING HOLDER

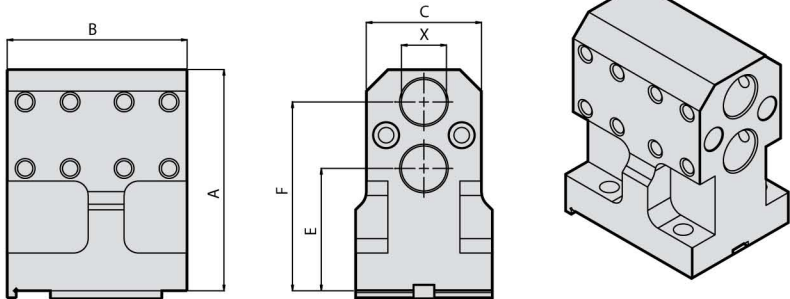
TYPE TAKAMAZ



- External coolant supply

Models	X	A	B	C	E	F	Order No.
XY-120	21	105	110	40	20	20	TA-XY120-C20

DOUBLE BORING BAR HOLDER



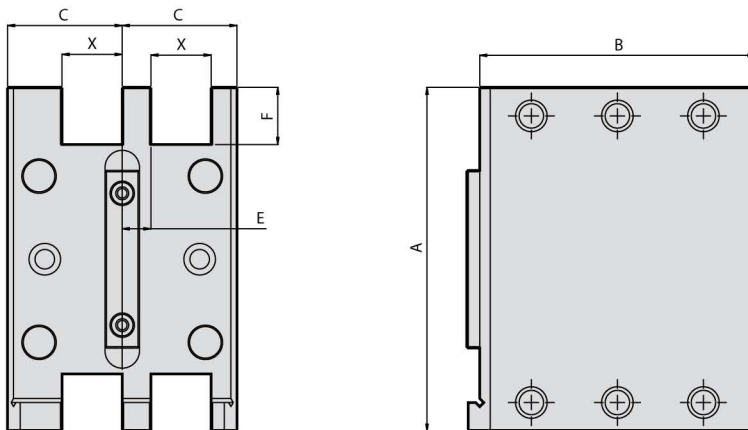
- External coolant supply

Models	X	A	B	C	E	F	Order No.
XY-120	25	123	100	64	68	105	TA-XY120-B25x2



MULTIPLE TURNING HOLDER

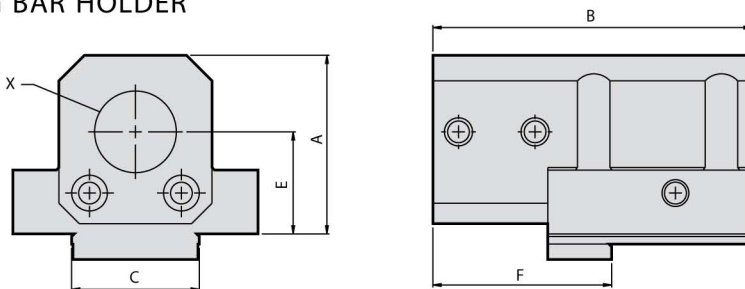
TYPE TAKAMAZ



- External coolant supply

Models	X	A	B	C	E	F	Order No.
XY-120	21	120	96	40	10	20	TA-XY120-25x4

BORING BAR HOLDER



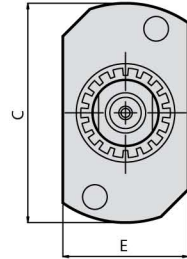
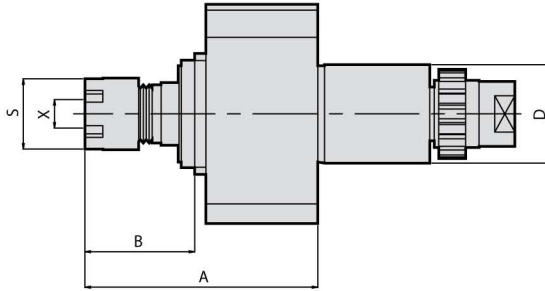
- Internal coolant supply
- External, internal coolant supply

Models	X	A	B	C	E	F	Order No.
XY-180	32	70	125	50	40	70	TA-XY180-B32



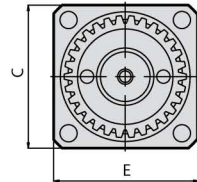
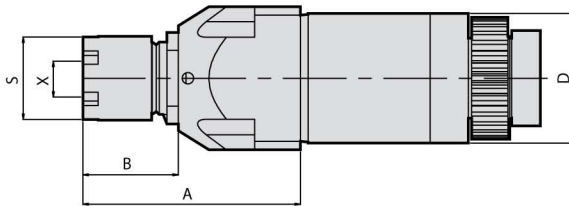
AXIAL MILLING AND DRILLING HEAD

TYPE STAR



D	X Capacity	S	Maximum R.P.M.	A	B	C	E	Order No.
22	1-7 ER11M	18	5000	52	24.5	49	28	ST-DA22-ER11

AXIAL MILLING AND DRILLING HEAD



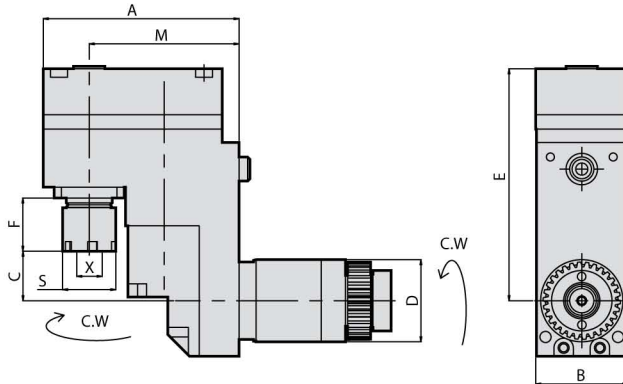
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	Order No.
ECAS20	34	1-7 ER11M	18	5000	41	18	37.5	37.5	ST-DA34-57163-ER11
ECAS20	34	1-10 ER16M	22	5000	57	25	37.5	37.5	ST-DA34-57155-ER16
ECAS20	34	1-10 ER16M	22	5000	36.5	24.5	37.5	37.5	ST-DA34-57150-ER16



RADIAL MILLING AND DRILLING HEAD

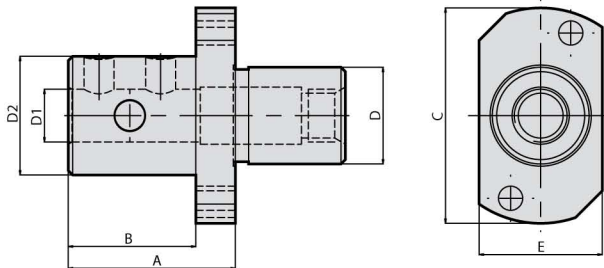
TYPE STAR



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity 1-10 ER16M	S	Maximum R.P.M.	A	B	C	E	F	M	Order No.
ECAS20	34		22	4000	81	38	20.5	96	22	62	BR34-ER16

BORING BAR HOLDER



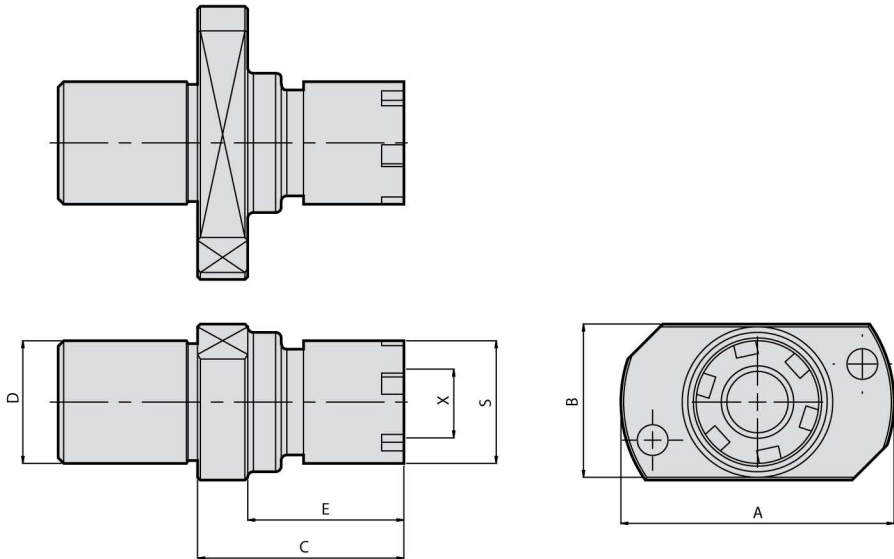
- External coolant supply

D	A	B	C	E	D1	D2	Order No.
22	38	29	49	28	6	27	ST-B5172-6
22	38	29	49	28	8	27	ST-B5172-8
22	38	29	49	28	10	27	ST-B5172-10
22	38	29	49	28	12	27	ST-B5172-12
22	38	29	49	28	16	27	ST-B5172-16



ER STATIC TOOL HOLDER

TYPE STAR



- External coolant supply

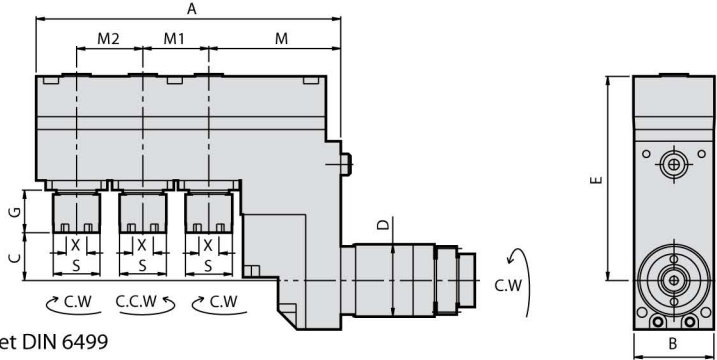
D	X Capacity	S	A	B	C	E	Order No.
22	1-10 ER16M	22	49	28	37	28	ST-B5172-ER16M



RADIAL MILLING AND DRILLING HEAD

TYPE STAR

TRIPLE HEADS

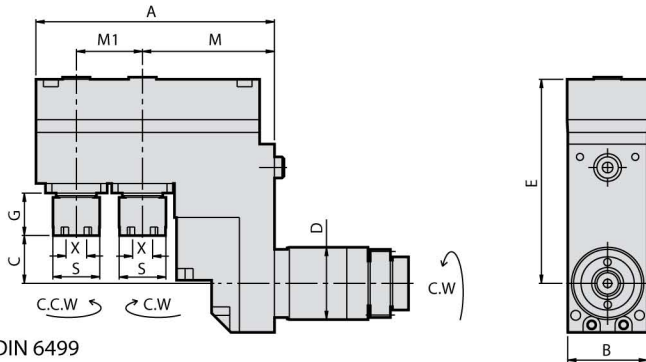


- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	G	M	M1	M2	Order No.
ECAS20	30	1-10 ER16M	22	4000	145	38	20.5	96	22	62	31	31	BR34-16-3C

RADIAL DRILLING AND MILLING HEAD

DOUBLE HEADS



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

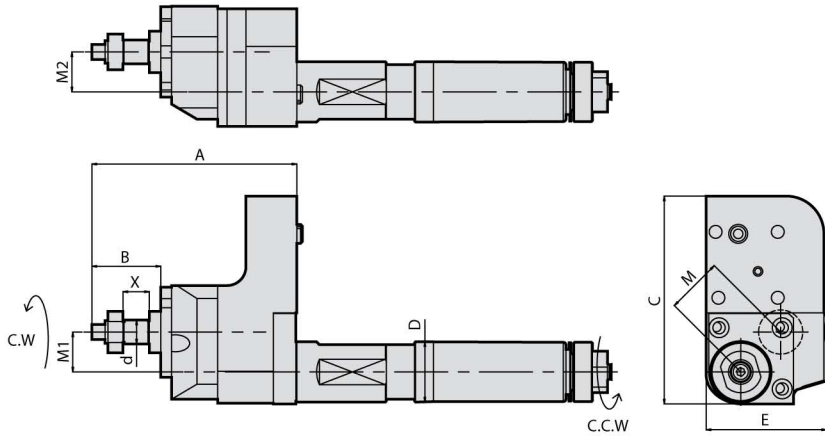
Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	G	M	M1	Order No.
ECAS20	34	1-10 ER16M	22	4000	112	38	20.5	96	22	62	31	BR34-16-2C





AXIAL MILLING HEAD

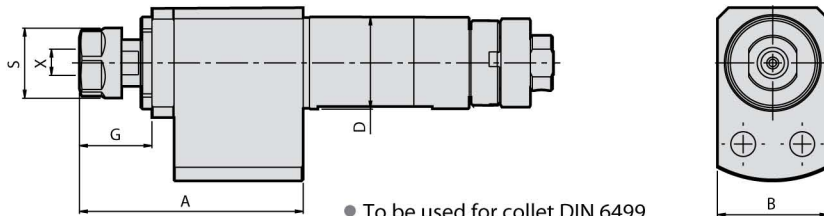
TYPE CITIZEN



- External coolant supply

Models	D	X Capacity	d	Maximum R.P.M.	I	A	B	C	E	M	M1	M2	Order No.
L520 GSE910	32	14-15	12.7	4000	2:1	109	36.5	111	64	30	21.22	21.22	DA32-OF30-CUT

AXIAL MILLING AND DRILLING HEAD



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

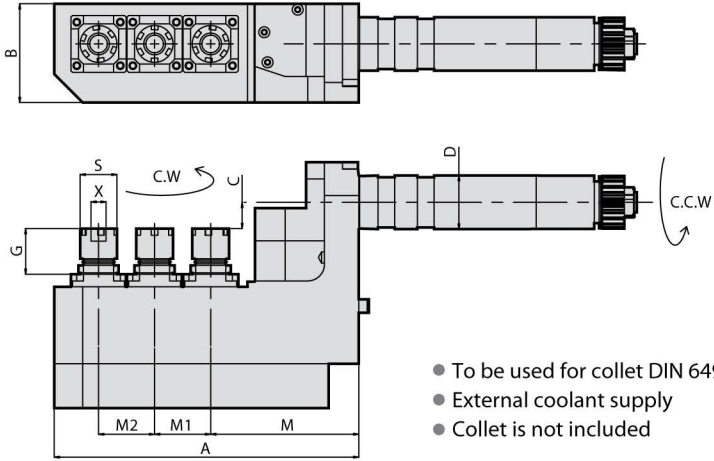
Models	D	X Capacity	S	Maximum R.P.M.	A	B	G	Order No.
GSC-907	25	1-7 ER11	19	6000	60.5	30	19.5	GSC-907-DA25-ER11





RADIAL MILLING AND DRILLING HEAD TRIPLE HEADS

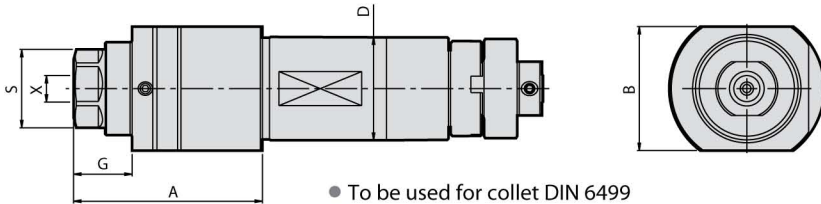
TYPE CITIZEN



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

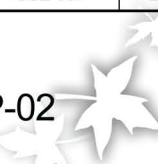
Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	G	M	M1	M2	Order No.
L520 GSE910	32	1-10 ER16M	23.5	4000	180	51	19	24	88.5	33.5	33.5	BR32-3C-910
L720 GSE1110	32	1-10 ER16M	23.5	4000	182	59	19	24	88.5	33.5	33.5	BR32-3C-1110

AXIAL MILLING AND DRILLING HEAD



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

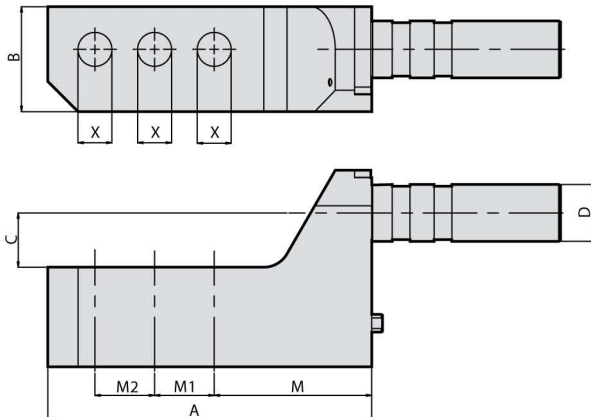
Models	D	X Capacity	S	Maximum R.P.M.	A	B	G	Order No.
GSE-307	25	1-7 ER11	19	6000	45.5	30	14	GSE-307-DA25-ER11





TRIPLE BORING BAR HOLDER

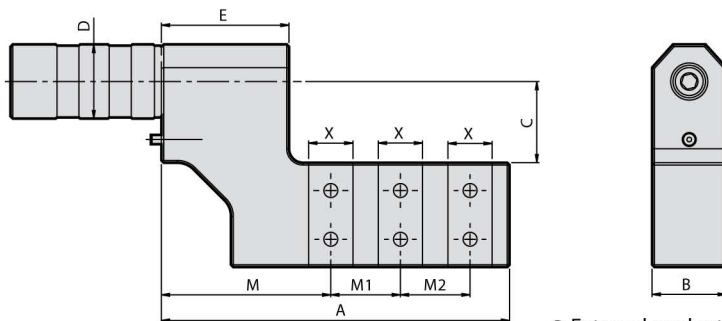
TYPE CITIZEN



● External coolant supply

Models	D	X	A	B	C	M	M1	M2	Order No.
L520 GSE910	32	0.75"	169	45	45	88.5	33.5	33.5	GSE-910-19.05-3
L720 GSE1110	32	0.75"	182	59	30.5	88.5	33.5	33.5	GSE-1110-19.05-3

TRIPLE BORING BAR HOLDER



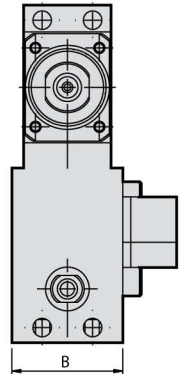
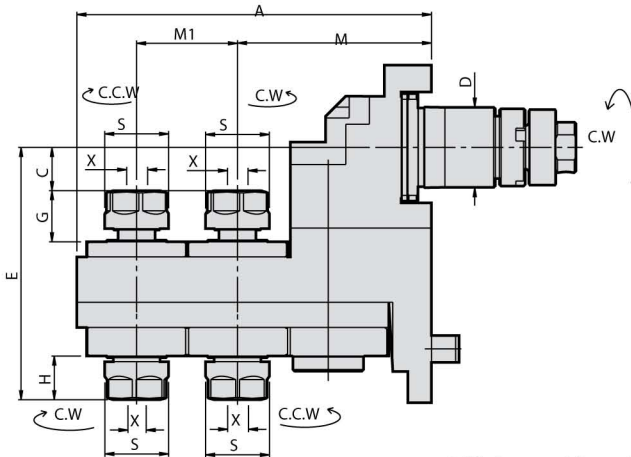
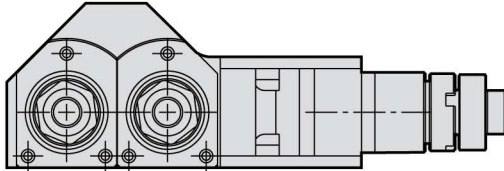
● External coolant supply

Models	D	X	A	B	C	E	M	M1	M2	Order No.
GDF-510	32	0.75"	150	32	35	55	73	30	30	GDF-510-19.05-3
GDF-702	32	0.75"	128	35	35	55	73	30	-	GDF-702-19.05-2



AXIAL MILLING AND DRILLING HEAD
MULTI HCAD

TYPE CITIZEN



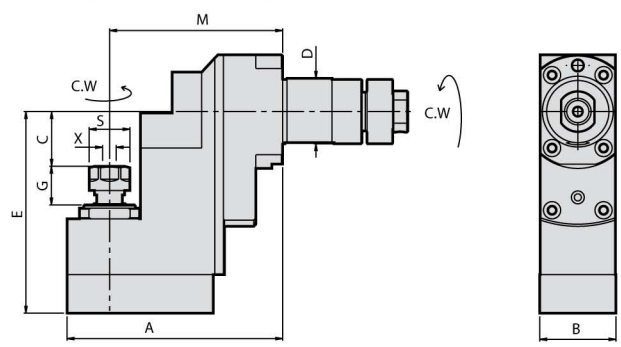
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	G	H	M	M1	Order No.
GSE-2007	24	1-7 ER11	19	4000	106	33	13	94	15	13	57.7	30	GSE-2007-DB24-11-4



RADIAL MILLING AND DRILLING HEAD

TYPE CITIZEN

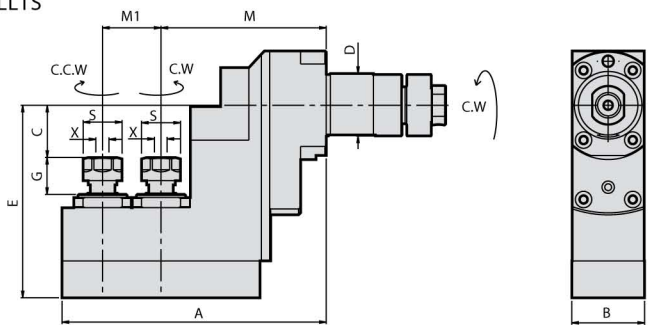


- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	G	M	Order No.
BSE-107	31	1-7 ER11	19	4000	100	35.5	25.5	94	18	80.6	BSE-107-DB31-11-80.6

RADIAL DRILLING AND MILLING HEAD

DOUBLE COLLETS



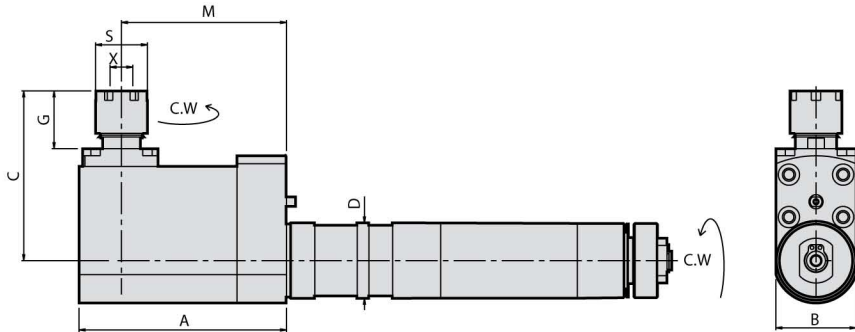
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	G	M	M1	Order No.
BSE-107	31	1-7 ER11	19	4000	129	35.5	25.5	94	18	80.6	28.5	BSE-107-DB31-11-2C



AXIAL MILLING AND DRILLING HEAD

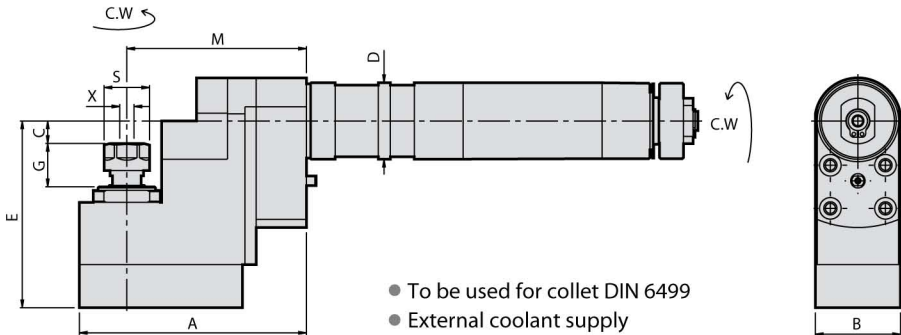
TYPE CITIZEN



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	G	M	Order No.
GSE-107	32	1-10 ER16M	22	4000	88	35	72	24.5	70	GSE-107-DF32-16-70

RADIAL MILLING AND DRILLING HEAD



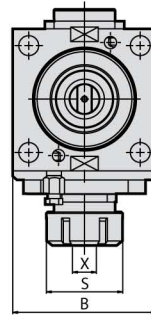
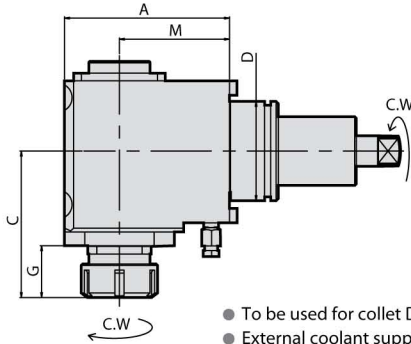
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	G	M	Order No.
GSE-107	32	1-7 ER11	19	4000	95	35.5	9.5	78	18	75	GSE-107-DB32-11-75



RADIAL MILLING AND DRILLING HEAD

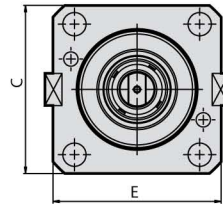
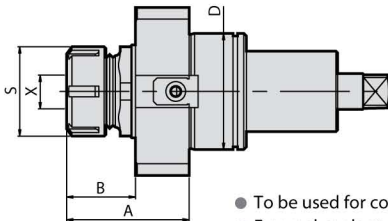
TYPE DAEWOO



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	G	M	Order No.
PA230M	55	ER25 1-16	42	4000	86	85	81	31	60	DW230-DF55-25-60
PA300M	65	ER32 2-20	50	4000	108	94	96	34	72	DW300-DF65-32-72
PA350M	75	ER40 3-26	63	4000	115	110	106.5	39	60	DW350-DF75-40-60
PA700M	85	ER50 10-34	78	4000	136	125	141.5	50.5	85	DW700-DF85-50-85

AXIAL MILLING AND DRILLING HEAD



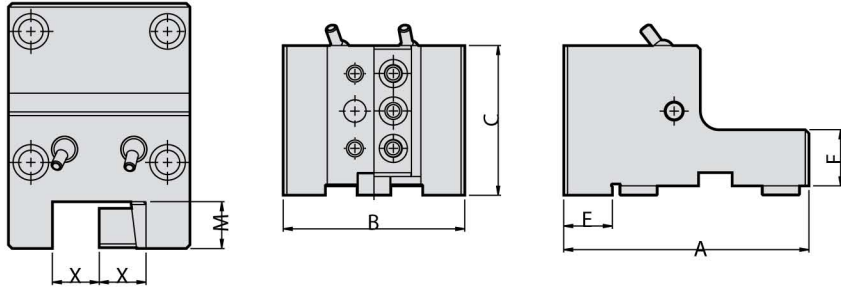
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	Order No.
PA230M	55	ER25 1-16	42	6000	62	33	85	85	DW230-DA55-25
PA300M	65	ER32 2-20	50	6000	68.5	38.5	94	94	DW300-DA65-32
PA350M	75	ER40 3-26	63	6000	79	44	110	115	DW350-DA75-40
PA700M	85	ER50 10-34	78	6000	96	56	125	125	DW700-DA85-50



TURNING HOLDER

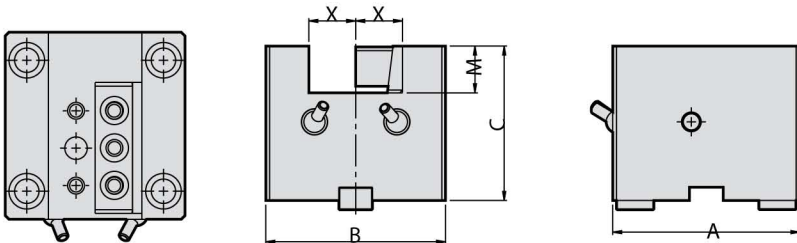
TYPE DAEWOO



● External, coolant supply

Models	X	A	B	C	E	F	M	Order No.
PA300	25	131	97	80	26	30	25	DW300-C25
PA350	25	145.5	112	100	-	30	25	DW350-C25
PA700	25	168.5	124	90	-	35	32	DW700-C32

FACING HOLDER



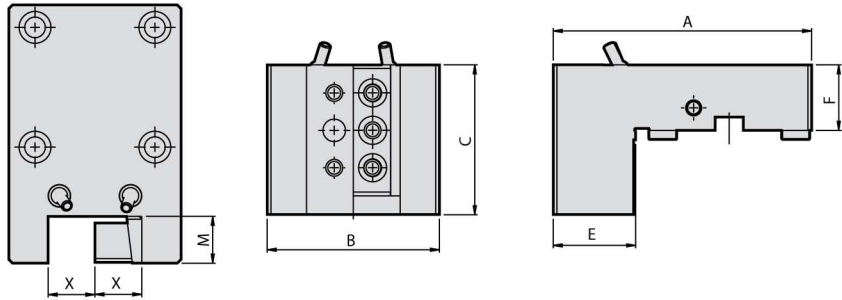
● External, coolant supply

Models	X	A	B	C	M	Order No.
PA230	25	95	92	60	25	DW230-F25
PA300	25	100	96	82.5	25	DW300-F25
PA350	25	120	112	127	25	DW350-F25
PA700	25	168.5	124	138	32	DW700-F32



TURNING HOLDER

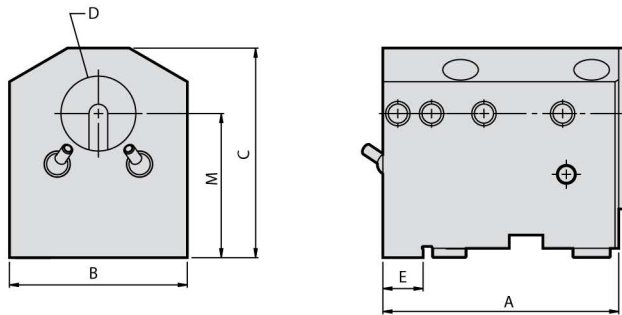
TYPE DAEWOO



- External, coolant supply

Models	X	A	B	C	E	F	M	Order No.
PA230	25	138	92	80	44	35	25	DW230-C25

BORING BAR HOLDER

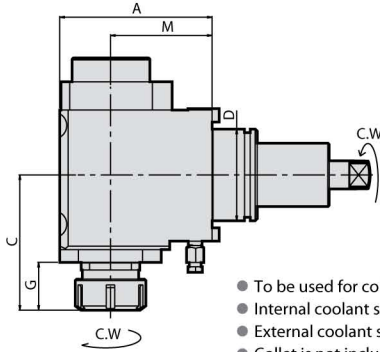


Models	D	A	B	C	E	M	Order No.
PA230	32	105	92	90	-	60	DW230-B32
PA300	40	126	95	112	21.5	77	DW300-B40
PA350	63.5	120	112	160	-	110	DW350-B63.5
PA700	60	161.5	124	157	-	110	DW700-B60

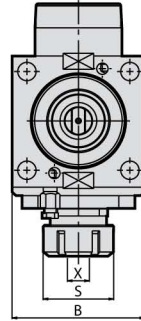


RADIAL MILLING AND DRILLING HEAD

TYPE DAEWOO

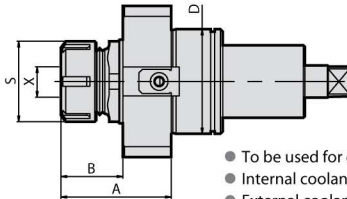


- To be used for collet DIN 6499
- Internal coolant supply
- External coolant supply
- Collet is not included.

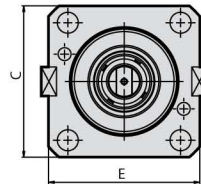


Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	G	M	Order No.
PA230M	55	ER25 1-16	42	4000	92	85	81	31	60	DW230-CW-DF55-25-60
PA300M	65	ER32 2-20	50	4000	108	94	96	34	72	DW300-CW-DF65-32-72
PA350M	75	ER40 3-26	63	4000	115	110	106.5	39	60	DW350-CW-DF75-40-60
PA700M	85	ER50 10-34	78	4000	136	125	141.5	50.5	85	DW700-CW-DF85-50-85

AXIAL MILLING AND DRILLING HEAD



- To be used for collet DIN 6499
- Internal coolant supply
- External coolant supply
- Collet is not included.

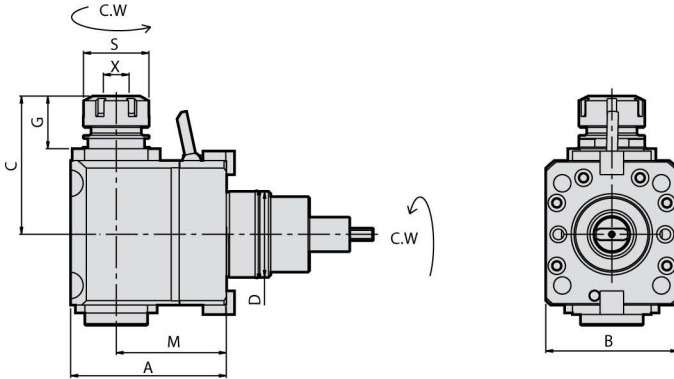


Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	Order No.
PA230M	55	ER25 1-16	42	6000	67	33	85	85	DW230-CW-DA55-25
PA300M	65	ER32 2-20	50	6000	74	38.5	94	94	DW300-CW-DA65-32
PA350M	75	ER40 3-26	63	6000	84	44	110	115	DW350-CW-DA75-40
PA700M	85	ER50 10-34	78	6000	104	56	125	125	DW700-CW-DA85-50



RADIAL DRILLING AND MILLING HEAD

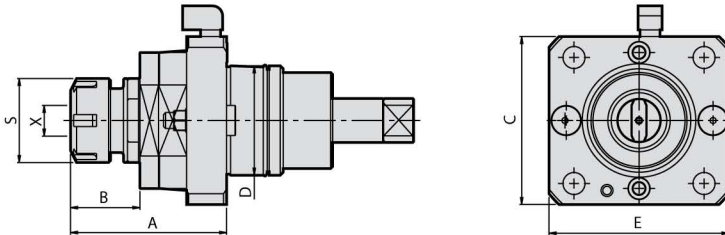
TYPE BIGLIA



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included.

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	G	M	Order No.
BIGLIA	54.7	1-16 ER25	42	4000	99	84	88	33.5	70	BIG-DF54.7-25-70

AXIAL DRILLING AND MILLING HEAD



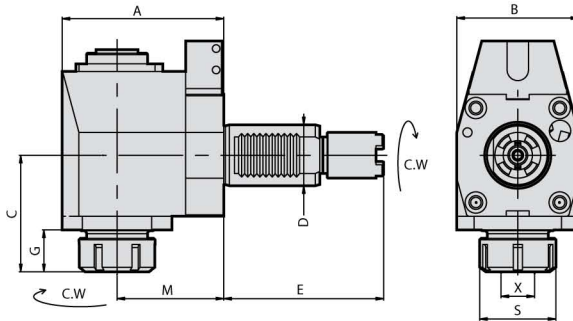
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included.

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	Order No.
BIGLIA	54.7	1-16 ER25	42	4000	78	34.5	84	90	BIG-DA54.7-ER25



RADIAL DRILLING AND MILLING HEAD

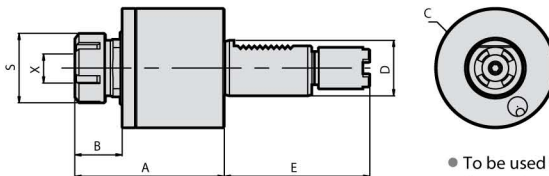
TYPE HAAS



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included.

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	G	M	E	Order No.
SL-20/TL-15	40	2-20 ER32	50	4000	106	80	76.5	27.5	70	104.85	VDI40FL4032104
SL-30/TL-25	40	2-20 ER32	50	4000	106	80	76.5	27.5	70	117.55	VDI/BOT-FL4032117
SL-40	40	2-20 ER32	50	4000	106	80	76.5	27.5	70	117.55	VDI40FL4032117
SL-40	40	2-20 ER32	50	4000	106	80	76.5	27.5	70	130.25	VDI/BOT-FL4032130

AXIAL DRILLING AND MILLING HEAD



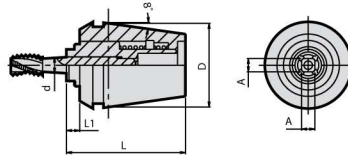
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included.

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	Order No.
SL-20/TL-15	40	2-20 ER32	50	6000	107.5	34	86	104.85	VDI40DA4032104
SL-30/TL-25	40	2-20 ER32	50	6000	107.5	34	86	117.55	VDI/BOTDA4032117
SL-40	40	2-20 ER32	50	6000	107.5	34	86	117.55	VDI40DA4032117
SL-40	40	2-20 ER32	50	6000	107.5	34	86	130.25	VDI/BOTDA4032130



QUICK CHANGE TAPPING

TYPE TAPP-ERS

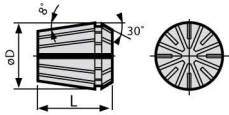


	MODELS	d	A	D	L	L1	Order No.	
ERS16	M3, #5, #6	4	3.2	16	26	4	ERS16-4.0	
	M4, M4.5, #8	5	4	16	26	4	ERS16-5.0	
	M5, M5.5, #10	5.5	4.5	16	26	4	ERS16-5.5	
	M6, USC 1/4"	6	4.5	16	26	4	ERS16-6.0	
	M7, M8	6.2	5	16	26	4	ERS16-6.2	
ERS20	M3, #5, #6	4	3.2	20	28	4	ERS20-4.0	
	M4, M4.5, #8	5	4	20	28	4	ERS20-5.0	
	M5, M5.5, #10	5.5	4.5	20	28	4	ERS20-5.5	
	M6, USC 1/4"	6	4.5	20	28	4	ERS20-6.0	
	M7, M8	6.2	5	20	28	4	ERS20-6.2	
	M9, M10, USF 3/8"	7	5.5	20	28	4	ERS20-7.0	
ERS25	M3, #5, #6	4	3.2	25	31	5	ERS25-4.0	
	M4, M4.5, #8	5	4	25	31	5	ERS25-5.0	
	M5, M5.5, #10	5.5	4.5	25	31	5	ERS25-5.5	
	M6, USC 1/4"	6	4.5	25	31	5	ERS25-6.0	
	M7, M8	6.2	5	25	31	5	ERS25-6.2	
	M9, M10, USF 3/8"	7	5.5	25	31	5	ERS25-7.0	
	M11, USF 7/16", PT 1/8"	8	6	25	31	5	ERS25-8.0	
	M12	8.5	6.5	25	31	5	ERS25-8.5	
	M14, M15	10.5	8.5	25	31	5	ERS25-10.5	
	ERS32	M3, #5, #6	4	3.2	32	38	5	ERS32-4.0
M4, M4.5, #8		5	4	32	38	5	ERS32-5.0	
M5, M5.5, #10		5.5	4.5	32	38	5	ERS32-5.5	
M6, USC 1/4"		6	4.5	32	38	5	ERS32-6.0	
M7, M8		6.2	5	32	38	5	ERS32-6.2	
M9, M10, USF 3/8"		7	5.5	32	38	5	ERS32-7.0	
M11, USF 7/16", PT 1/8"		8	6	32	38	5	ERS32-8.0	
M12		8.5	6.5	32	38	5	ERS32-8.5	
M14, M15		10.5	8.5	32	38	5	ERS32-10.5	
M16		12.5	10	32	38	5	ERS32-12.5	
M17		13	10	32	38	5	ERS32-13	
M18, USF 3/4"		14	11	32	38	5	ERS32-14	
ERS40		M6, USC 1/4"	6	4.5	40	48	6	ERS40-6.0
		M7, M8	6.2	5	40	48	6	ERS40-6.2
	M9, M10, USF 3/8"	7	5.5	40	48	6	ERS40-7.0	
	M11, USF 7/16", PT 1/8"	8	6	40	48	6	ERS40-8.0	
	M12	8.5	6.5	40	48	6	ERS40-8.5	
	M14, M15	10.5	8.5	40	48	6	ERS40-10.5	
	M16	12.5	10	40	48	6	ERS40-12.5	
	M17	13	10	40	48	6	ERS40-13	
	M18, USF 3/4"	14	11	40	48	6	ERS40-14	
	M20	15	12	40	48	6	ERS40-15	
	M22, USF 7/8"	17	13	40	48	6	ERS40-17	



ER COLLET

- Case hardened steel guarantees long operating life and elasticity of collets.
- All collets are precisely ground according to DIN6499 for high precision tool holding; ER16, ER20, ER32 and ER40, have 1mm clamping capacity; ER11 have 0.5mm clamping capacity.

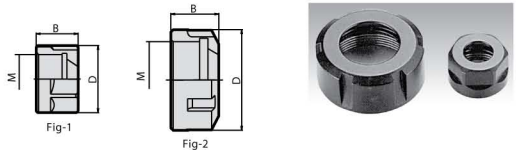


Collet Dimensions

TYPE	ER11	ER16	ER20	ER25	ER32	ER40	ER50
ØD	11.5	17	21	26	33	41	52
L	18	27	31	35	40	46	60

ER11		ER20		ER25		ER32		ER40		ER50	
Order No.	Range	Order No.	Range	Order No.	Range	Order No.	Range	Order No.	Range	Order No.	Range
34103	3.0-2.5	34303	3-2	34403	3-2	34503	3-2	34604	4-3	34711	11-10
34135	3.5-3.0	34304	4-3	34404	4-3	34504	4-3	34605	5-4	34712	12-11
34140	4.0-3.5	34305	5-4	34405	5-4	34505	5-4	34606	6-5	34713	13-12
34145	4.5-4.0	34306	6-5	34406	6-5	34506	6-5	34607	7-6	34714	14-13
34150	5.0-4.5	34307	7-6	34407	7-6	34507	7-6	34608	8-7	34715	15-14
34155	5.5-5.0	34308	8-7	34408	8-7	34508	8-7	34609	9-8	34716	16-15
34160	6.0-5.5	34309	9-8	34409	9-8	34509	9-8	34610	10-9	34717	17-16
34165	6.5-6.0	34310	10-9	34410	10-9	34510	10-9	34611	11-10	34718	18-17
34170	7.0-6.5	34311	11-10	34411	11-10	34511	11-10	34612	12-11	34719	19-18
		34312	12-11	34412	12-11	34512	12-11	34613	13-12	34720	20-19
		34313	13-12	34413	13-12	34513	13-12	34614	14-13	34721	21-20
				34414	14-13	34514	14-13	34615	15-14	34722	22-21
				34415	15-14	34515	15-14	34616	16-15	34723	23-22
				34416	16-15	34516	16-15	34617	17-16	34724	24-23
						34517	17-16	34618	18-17	34725	25-24
						34518	18-17	34619	19-18	34726	26-25
						34519	19-18	34620	20-19	34727	27-26
						34520	20-19	34621	21-20	34728	28-27
								34622	22-21	34729	29-28
								34623	23-22	34730	30-29
								34624	24-23	34731	31-30
								34625	25-24	34732	32-31
								34626	26-25	34733	33-32
										34734	34-33
ER16											
Order No.	Range										
34203	3-2										
34204	4-3										
34205	5-4										
34206	6-5										
34207	7-6										
34208	8-7										
34209	9-8										
34210	10-9										

CLAMPING NUT

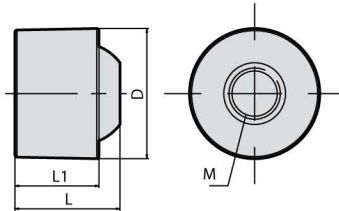


Order No.	TYPE	Fig	D	B	M
14748	CN-ER11	1	19	11.5	M14X0.75
14750	CN-ER16	1	32	17.5	M22X1.5
14752	CN-ER20	1	35	19	M25X1.5
14754	CN-ER25	2	42	20	M32X1.5
14756	CN-ER32	2	50	22.5	M40X4.5
14758	CN-ER40	2	63	22.5	M50X1.5
14760	CN-ER50	2	78	35	M64X2.0



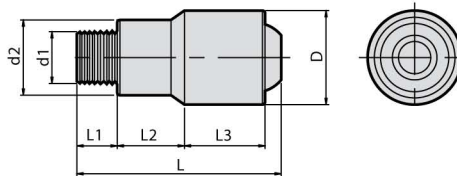
COOLANT NOZZLE

TYPE T1-X3



Order No.	D	L	L1	M
NOZ-12	12	10	8	M6X1.0
NOZ-14	14	13	10	M6X1.0
NOZ-16	16	14	11	M7X1.0

COOLANT NOZZLE HEAD



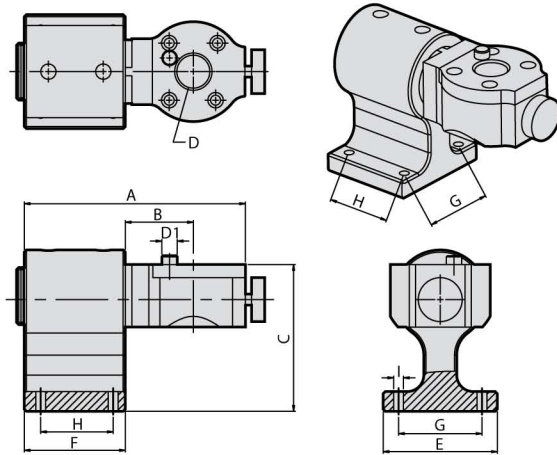
Order No.						
NZKH-13						
D	d1	d2	L	L1	L2	L3
17.5	PT1/8-28	13	37	7.5	9.5	18.5





TOOL LOCKING FIXTURE

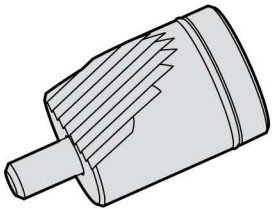
TYPE DIN



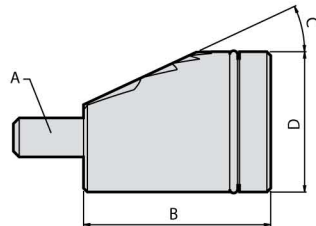
D	D1	A	B	C	E	F	G	H	I	Order No.
30	14	201	62	134	104	92	76	66	9	VDI-L-30
40	14	201	62	134	104	92	76	66	9	VDI-L-40

VDI WEDGE

TYPE VDI



● Wedge for tool turret



A	B	C	D	Order No.
M6	28	20	18	VDI-W-20
M8	34	20	22	VDI-W-30
M10	42	20	28	VDI-W-40
M10	44	20	40	VDI-W-40
M10	48	25	36	VDI-W-50
M12	56	25	50	VDI-W-50
M12	54	25	42	VDI-W-60



CATALOGUE No 2009 0501VDI

VDI TOOL HOLDERS ROTARY AND STATIC



INTERNATIONAL MACHINE TOOLS AND EQUIPMENT INC
400-3601 HWY 7 East, Markham, ON, L3R 0M3
t.: 905-479-6772 f.: 905-479-9371 e.: imte@imte.ca

**IMTE**
www.imte.ca