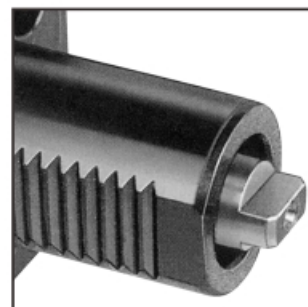
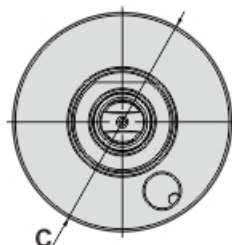
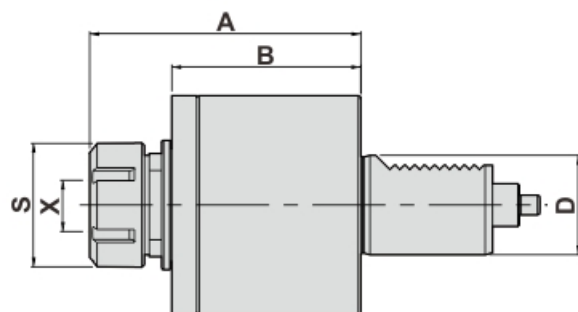


AXIAL DRILLING AND MILLING HEADS

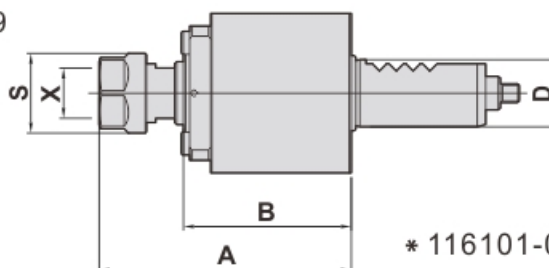
軸向鑽銑刀座 (0°)



▲ Coupling to DIN 1809

Power Transmission According to DIN 1809

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



* 116101-000(DA16180911)

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	Code No.	Order No.	(Kg) Weight
* 16	1-7 ER11	19	6000	1 : 1	60	40	38	116101-000	DA16180911	0.7
20	1-10 ER16	30	6000	1 : 1	77	49	58	120101-000	DA20180916	1.1
30	1-16 ER25	42	6000	1 : 1	101	71.5	68	130101-000	DA30180925	2.2
40	2-20 ER32	50	6000	1 : 1	112	74.5	86	140101-000	DA40180932	3.7
40	2-20 ER32	50	6000	1 : 1	92.5	56	86	140102-000	DAC40180932	3.6
40	3-26 ER40	63	6000	1 : 1	104.5	56	86	140118-000	DAC40180940	3.3
50	3-26 ER40	63	6000	1 : 1	124	81.5	96	150101-000	DA50180940	5.6
60	10-34 ER50	78	6000	1 : 1	142.5	88.5	116	160101-000	DA60180950	9

AXIAL TAPPING HEADS

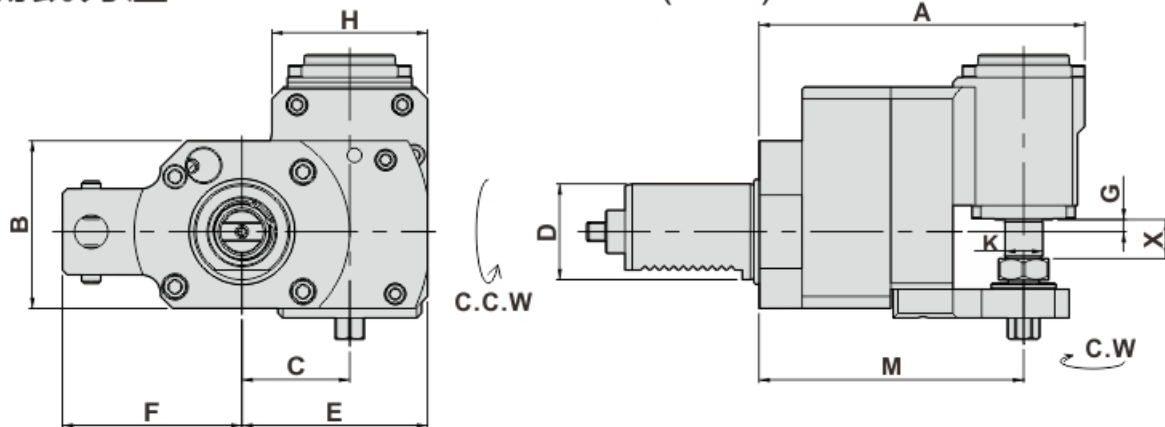
軸向彈性攻牙刀座 (0°)

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	Code No.	Order No.	(Kg) Weight
30	1-10 ER16	30	3000	1 : 1	108	71.5	68	130116-000	TDA30180916	2.2
40	1-13 ER20	35	3000	1 : 1	95.5	56	86	140122-000	TDAC40180920	3
50	1-16 ER25	42	3000	1 : 1	123	81.5	96	150116-000	TDA50180925	5.5
60	2-20 ER32	50	3000	1 : 1	158.5	88.5	116	160116-000	TDA60180932	9.2

RADIAL DRILLING AND MILLING HEADS

徑向側銑刀座-DISK CUTTER UNITS (90°)



● External coolant supply

● i=3倍減速

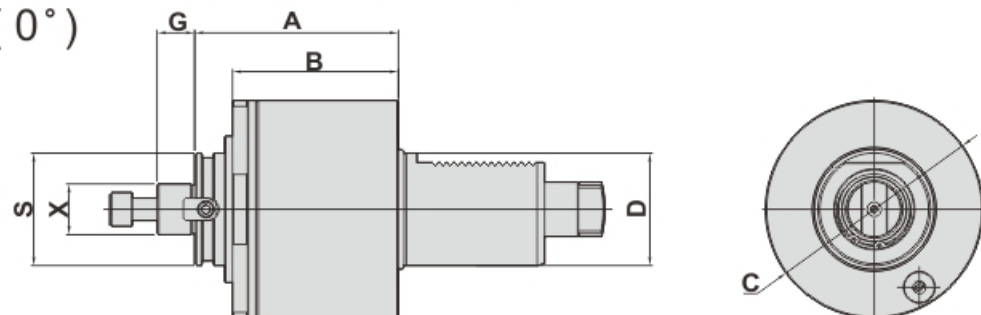
● Other shank dimensions under development

DIMENSIONS

D DIN 69880	X Capacity	Maximum R.P.M	i	A	B	C	E	F	G	H	K	M	Code No.	Order No.	(Kg) Weight
30	16	3000	3:1	133	64	45	77.5	49	5	65	16	107.5	230107-000	BR30180916C/3	5.7
													230127-000	BL30180916C/3	
30	16	3000	3:1	133	64	45	77.5	49	5	65	25.4	107.5	230109-000	BR30180925.4C/3	6
													230129-000	BL30180925.4C/3	
40	16	3000	3:1	136	64	45	77.5	75	5	65	16	110.5	240107-000	BR40180916C/3	6.4
													240127-000	BL40180916C/3	
40	16	3000	3:1	136	64	45	77.5	75	5	65	25.4	110.5	240109-000	BR40180925.4C/3	6.6
													240129-000	BL40180925.4C/3	

AXIAL SHELL END MILLING CUTTERS

軸向銑削刀座 (0°)



● To be used for cutter arbor according to DIN 6358

● External coolant and intermediate rings supply

DIMENSIONS

D DIN 69880	X Capacity	Maximum R.P.M	S	i	A	B	C	G	Code No.	Order No.	(Kg) Weight
30	16	3000	32	1:1	85.5	71.5	68	17	130105-000	DA30180916C	2.3
40	22	3000	48	1:1	86.5	74.5	86	18	140105-000	DA40180922C	3.8
40	22	3000	48	1:1	69	56	86	18	140130-000	DAC40180922C	3.1
50	22	3000	48	1:1	94	81.5	96	18	150105-000	DA50180922C	5.5
50	27	3000	60	1:1	97.5	81.5	96	20	150106-000	DA50180927C	5.7
60	27	3000	60	1:1	108.5	88	116	20	160103-000	DA60180927C	9.1

RADIAL DRILLING AND MILLING HEADS

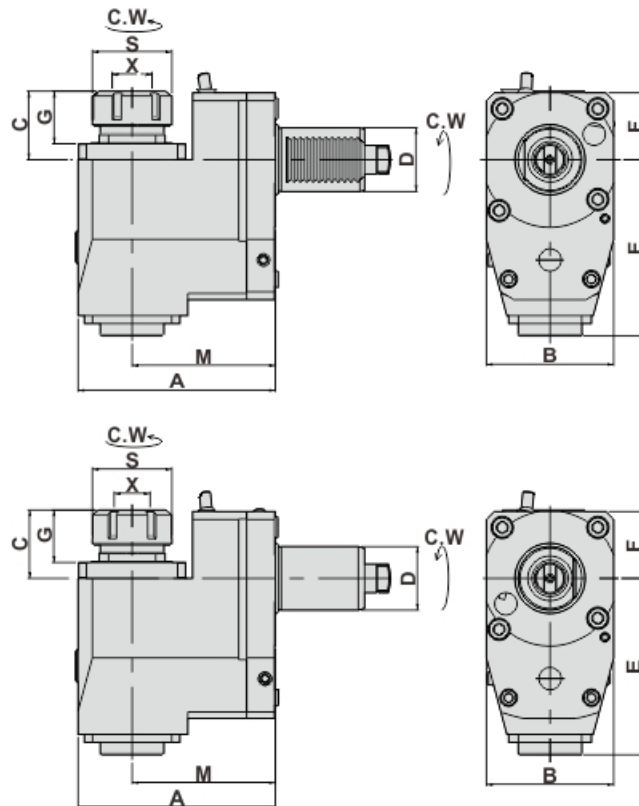
徑向鑽銑刀座-後縮型
OFFSET (90°)

MODE : BL
LEFT-HAND

MODE : BR
RIGHT-HAND

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

DIMENSIONS



D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	E	F	G	M	Code No.	Order No.	(Kg) Weight
20	1-10 ER16	30	5000	1:1	83	50	35	70	27	27	60	220101-000	BR2018091660	2.2
												220121-000	BL2018091660	
30	1-16 ER25	42	5000	1:1	95	60	41.5	75.5	31.5	29	72	230101-000	BR3018092572	3.5
												230121-000	BL3018092572	
40	2-20 ER32	50	5000	1:1	124	80	44	110	42	34	90	240101-000	BR4018093290	8.3
												240121-000	BL4018093290	
40	2-20 ER32	50	5000	1:1	179	80	43	111	42	33	145	240110-000	BR40180932145	12
50	3-26 ER40	63	5000	1:1	129	86	49	112	45	39	90	250101-000	BR5018094090	10
												250121-000	BL5018094090	
60	3-26 ER40	63	5000	1:1	154	104	56	123	54	44.5	106	260104-000	BR60180940106	16.3
												260124-000	BL60180940106	
60	10-34 ER50	78	5000	1:1	154	104	74.5	123	54	52	106	260101-000	BR60180950106	16.5
												260121-000	BL60180950106	

RADIAL TAPPING HEADS

徑向彈性攻牙刀座-後縮型 (90°)

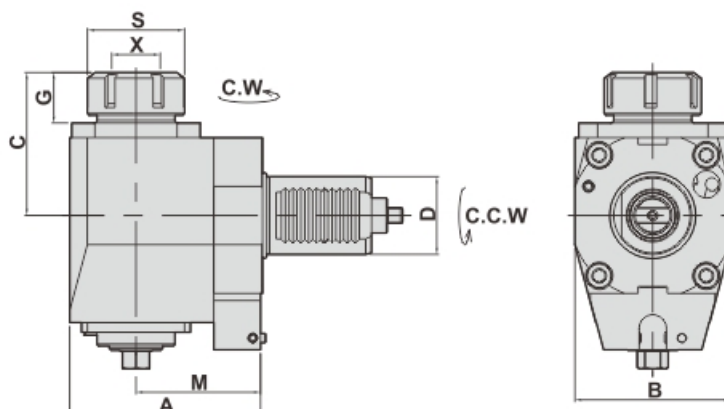
DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	E	F	G	M	Code No.	Order No.	(Kg) Weight
30	1-10 ER16	30	3000	1:1	95	60	44	75.5	31.5	32	72	230105-000	TBR3018091672	3.5
												230125-000	TBL3018091672	
40	1-13 ER20	35	3000	1:1	124	80	59.5	110	42	49.5	90	240105-000	TBR4018092090	8.5
												240125-000	TBL4018092090	
50	1-16 ER25	42	3000	1:1	129	86	54	112	45	36	90	250105-000	TBR5018092590	10.3
												250125-000	TBL5018092590	
60	2-20 ER32	50	3000	1:1	154	104	105	123	54	82.5	106	260105-000	TBR60180932106	16.8
												260125-000	TBL60180932106	

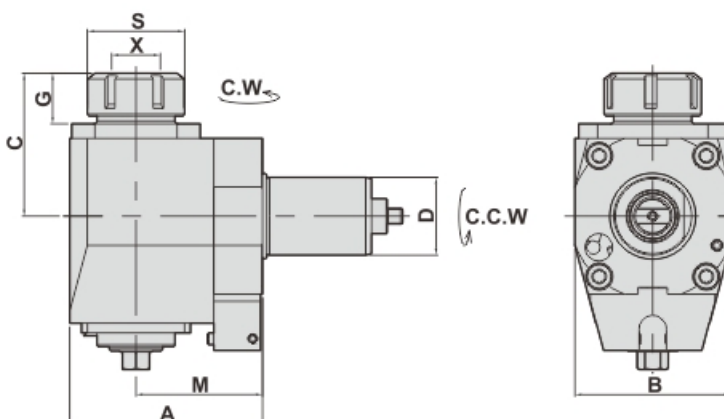
RADIAL DRILLING AND MILLING HEADS

徑向鑽銑刀座 (90°)

MODE : FL
LEFT-HAND



MODE : FR
RIGHT-HAND



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

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	G	M	Code No.	Order No.	(Kg) Weight
20	1-10 ER16	30	5000	1:1	67	50	63	24.5	45	220141-000	FR2018091645	1.8
										220161-000	FL2018091645	
30	1-16 ER25	42	5000	1:1	87	64	74.5	26	55	230141-000	FR3018092555	4
										230161-000	FL3018092555	
30	1-16 ER25	42	5000	1:1	117	64	75	26.5	85	230148-000	FR3018092585	4.6
										230168-000	FL3018092585	
40	2-20 ER32	50	5000	1:1	99	80	80	29	65	240141-000	FR4018093265	6
										240161-000	FL4018093265	
40	2-20 ER32	50	5000	1:1	119	80	80	29	85	240148-000	FR4018093285	7
										240168-000	FL4018093285	
40	2-20 ER32	50	5000	1:1	134	80	80	33	100	240149-000	FR40180932100	7.6
										240169-000	FL40180932100	

RADIAL TAPPING HEADS

徑向彈性攻牙刀座 (90°)

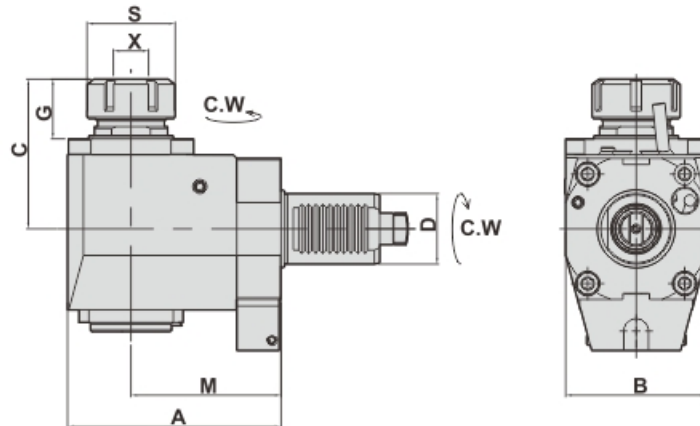
DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	G	M	Code No.	Order No.	(Kg) Weight
30	1-10 ER16	30	3000	1:1	87	64	75	30	55	230145-000	TFR3018091655	4.1
										230165-000	TFL3018091655	
40	1-13 ER20	35	3000	1:1	99	80	93.5	46	65	240145-000	TFR4018092065	6.1
										240165-000	TFL4018092065	

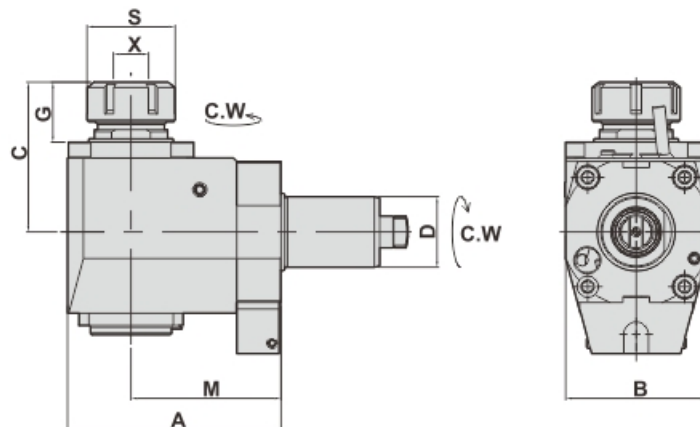
RADIAL DRILLING AND MILLING HEADS

徑向鑽銑刀座 (90°)

MODE : FL
LEFT-HAND



MODE : FR
RIGHT-HAND



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

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	G	M	Code No.	Order No.	(Kg) Weight
40	2-20 ER32	50	5000	1:1	99	80	85	34	65	240181-000	NFR4018093265	6
										2401101000	NFL4018093265	
40	2-20 ER32	50	5000	1:1	121	80	85	34	85	240188-000	NFR4018093285	7
										2401112000	NFL4018093285	
40	2-20 ER32	50	5000	1:1	134	80	85	34	100	240189-000	NFR40180932100	7.6
										2401109000	NFL40180932100	
40	2-20 ER32	63	5000	1:1	158	80	95.5	37	120	240194-000	NFR40180932120	9
										2401117000	NFL40180932120	
50	3-26 ER40	63	5000	1:1	115	88	103	40	75	250181-000	NFR5018094075	9.8
										2501101000	NFL5018094075	
60	10-34 ER50	78	5000	1:1	156	104	139	56.5	106	260141-000	NFR60180950106	18.1

RADIAL TAPPING HEADS

徑向彈性攻牙刀座 (90°)

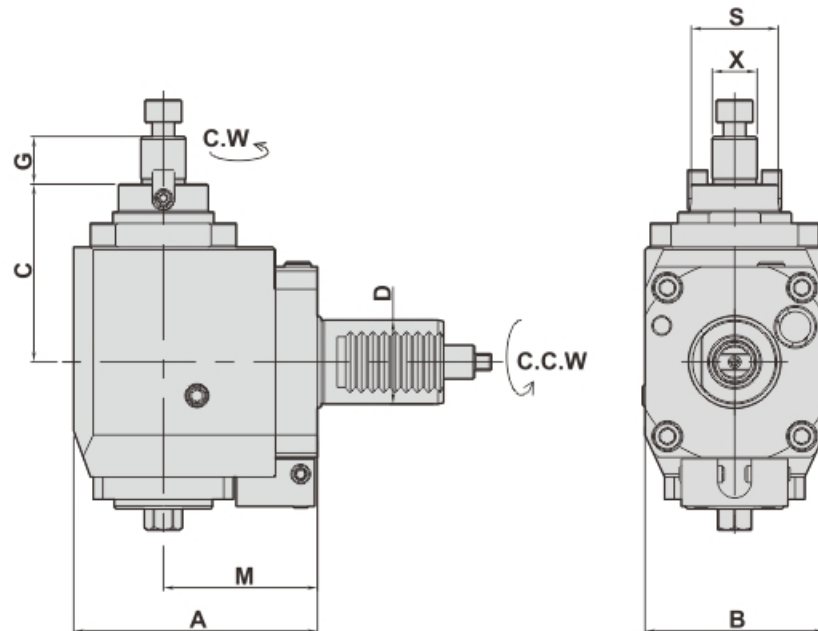
DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	G	M	Code No.	Order No.	(Kg) Weight
40	1-13 ER20	35	3000	1:1	99	80	105	25	65	240190-000	NTFR4018092065	6.1
										2401105000	NTFL4018092065	
40	1-13 ER20	35	3000	1:1	121	80	105	55.5	85	240191-000	NTFR4018092085	7.1
										2401111000	NTFL4018092085	
50	1-16 ER25	42	3000	1:1	115	88	105	42	75	250188-000	NTFR5018092575	9.9
										2501105000	NTFL5018092575	

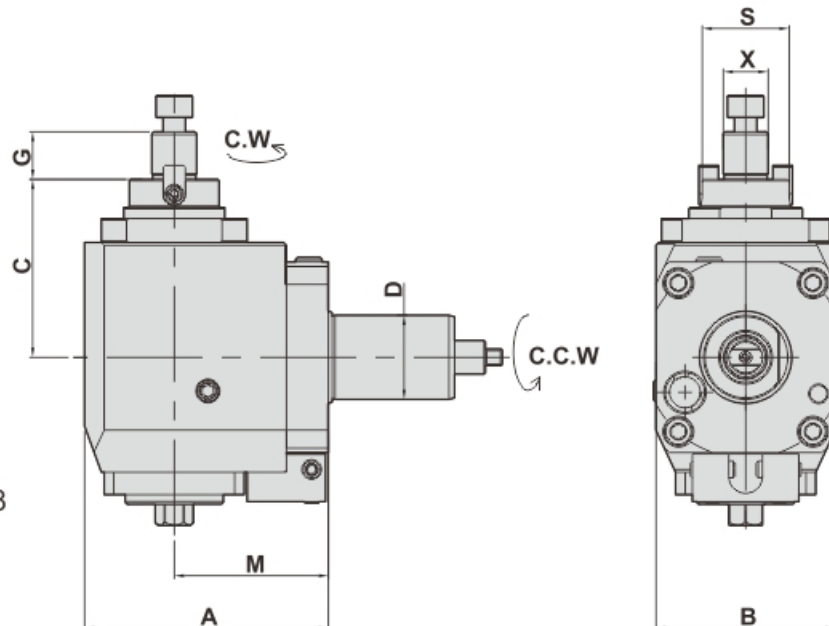
RADIAL SHELL END MILLING CUTTERS

徑向銑削刀座 (90°)

MODE : FL
LEFT-HAND



MODE : FR
RIGHT-HAND



- To be used for collet DIN 6358
- External coolant and intermediate rings supply

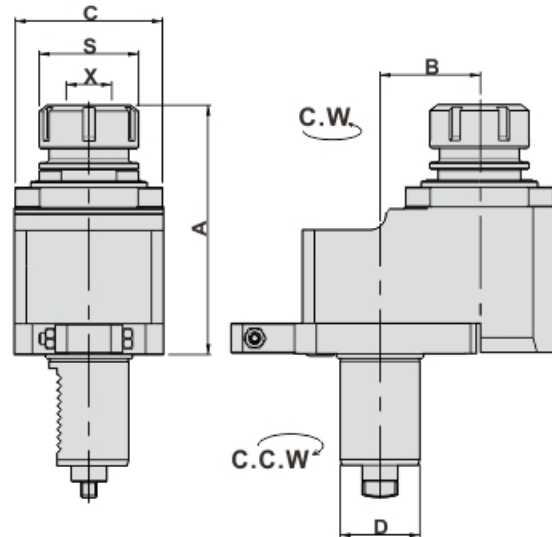
DIMENSIONS

D DIN 69880	X DIN 6358	S	Maximum R.P.M	i	A	B	C	G	M	Code No.	Order No.	(Kg) Weight
30	16	32	5000	1:1	87	64	63.5	17	55	230144-000	FR30180916C55	3.8
										230164-000	FL30180916C55	

AXIAL DRILLING AND MILLING HEADS

OFFSET-軸向偏心鑽銑刀座 (0°)

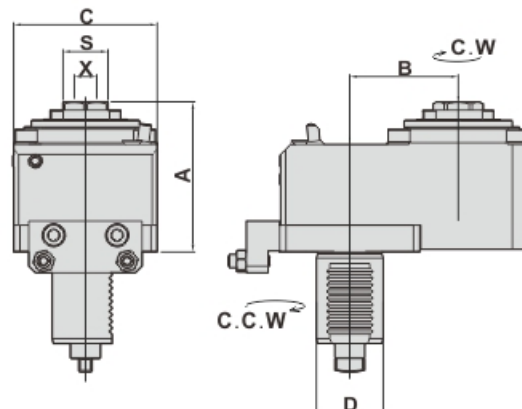
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included



DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	Code No.	Order No.	(Kg) Weight
20	1-10 ER16	30	4000	1:1	93.5	29	50	120108-000	DA2018091629	1.8
30	1-16 ER25	42	4000	1:1	100	29	60	130108-000	DA3018092529	2.8
*30	1-16 ER25	42	8000	1:2	100	29	60	130111-000	* DA3018092529/1	2.8
40	2-20 ER32	50	4000	1:1	125.5	50	75	140108-000	DA4018093250	6
40	2-20 ER32	50	4000	1:1	122	65	86	140109-000	DA4018093265	8.2
50	3-26 ER40	63	3000	1:1	124	65	86	150108-000	DA5018094065	8.6
60	10-34 ER50	78	3000	1:1	173.5	65	104	160108-000	DA6018095065	17.3
60	10-34 ER50	78	3000	1:1	173.5	80	104	160109-000	DA6018095080	19.3

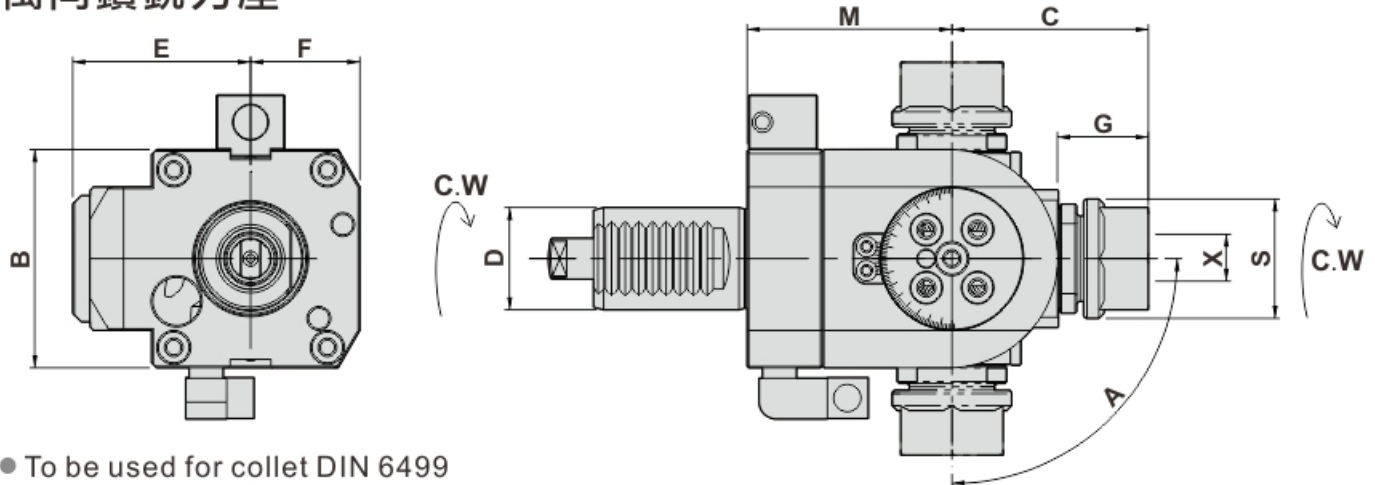
* 2倍增速



DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	Code No.	Order No.	(Kg) Weight
40	1-16 ER25	30	4000	1:1	90	65	86	140110-000	DA40180925A65-L	7.1

ANGULAR HEAD 萬向鑽銑刀座



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

DIMENSIONS

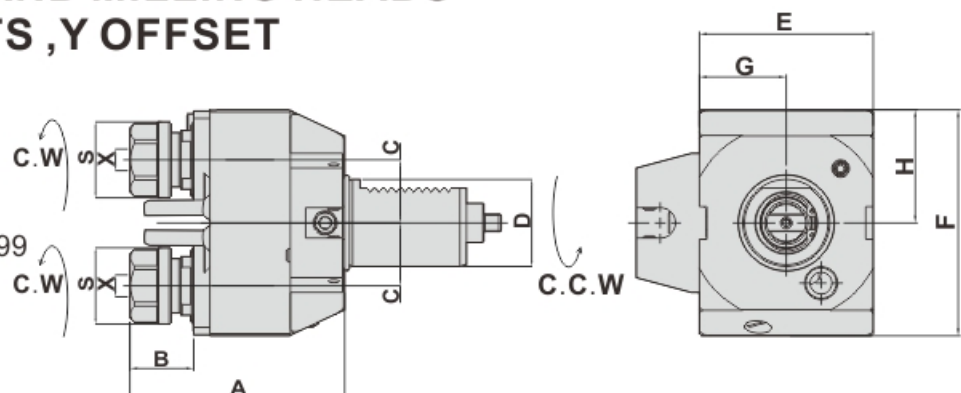
D DIN 69880	X Capacity	Maximum R.P.M	S	A	B	C	E	F	G	M	Code No.	Order No.	(Kg) Weight
30	1-13 ER20	4000	35	±90°	64	59	54	32	27	67	130115-000	DA30180920B	3
30	1-13 ER20	4000	35	±90°	64	59	54	32	27	80	130121-000	DA30180920B/L	3.6
40	1-16 ER25	4000	42	±90°	76	65	65	38	29	70	140115-000	DA40180925B	5.1
50	1-16 ER25	4000	42	±90°	90	80	85	45	32	85	150115-000	DA50180925B	9.2
60	3-26 ER40	4000	63	±90°	108	99	92.5	55	38	97	160115-000	DA60180940B	15.2

Other shank dimensions under development

AXIAL DRILLING AND MILLING HEADS DOUBLE COLLETS ,Y OFFSET

軸向鑽銑刀座--
雙頭Y軸偏心 (0°)

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



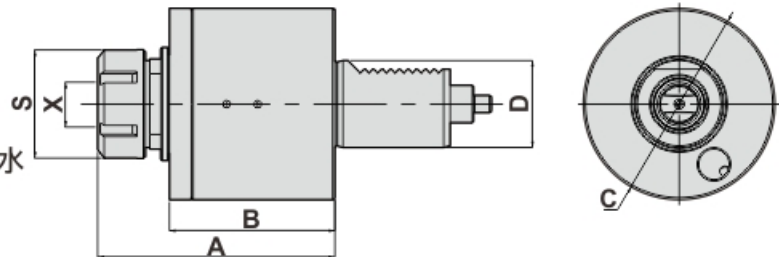
DIMENSIONS

D DIN 69880	X Capacity	Maximum R.P.M	S	A	B	C	E	F	G	H	Code No.	Order No.	(Kg) Weight
40	1-13 ER20	4000	35	98.5	29	29	80	104	40	52	140117-000	DA40180920DY	4.7

AXIAL MILLING AND DRILLING HEAD

軸向鑽銑刀座 (0°)

- To be used for collet DIN 6499
- Internal coolant supply: 15bar 中心出水
- External coolant supply
- Collet is not included



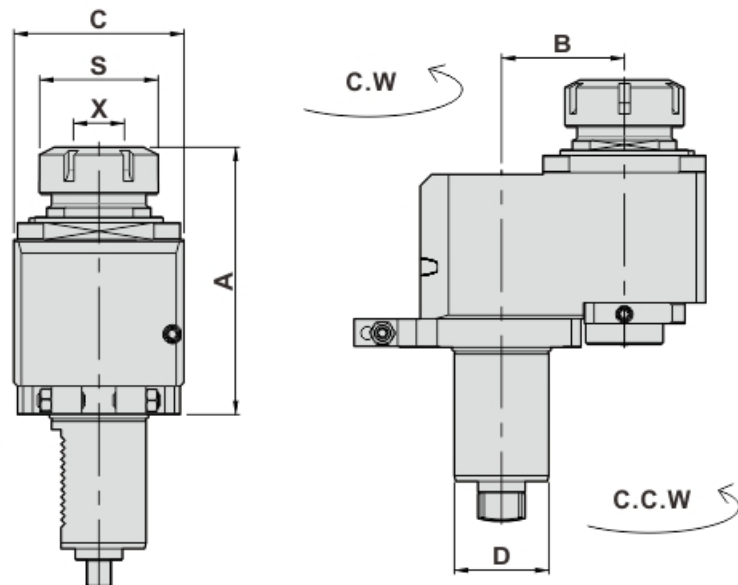
DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	A	B	C	Code No.	Order No.	(Kg) Weight
30	1-16 ER25	42	6000	101	72.5	68	130107-000	CWDA301809ER25	2.3
40	2-20 ER32	50	6000	129	84	86	140107-000	CWDA401809ER32	3.6
50	3-26 ER40	63	6000	134	94.5	96	150107-000	CWDA501809ER40	6.4
60	10-34 ER50	78	6000	143	90	116	160107-000	CWDA601809ER50	9.1

AXIAL DRILLING AND MILLING HEADS OFFSET

軸向偏心鑽銑刀座 (0°)

- To be used for collet DIN 6499
- Internal coolant supply: 30bar 中心出水
- External coolant supply
- Collet is not included

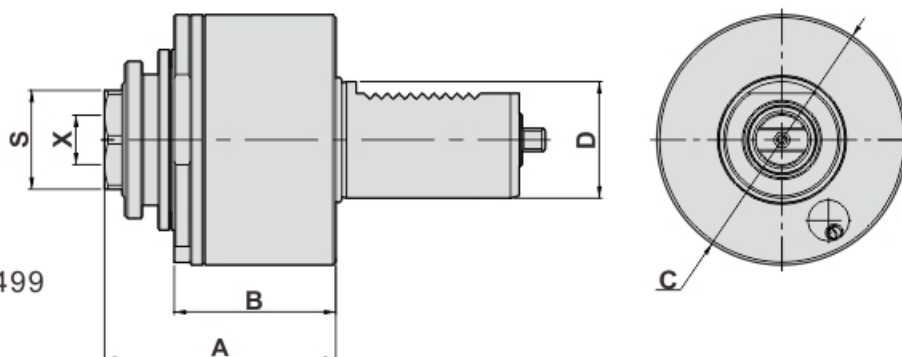


DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	Code No.	Order No.	(Kg) Weight
50	3-26 ER40	63	3000	1:1	140.5	65	90	150113-000	CWDA5018094065	10.5

AXIAL DRILLING AND MILLING HEADS

軸向鑽銑刀座 (0°)



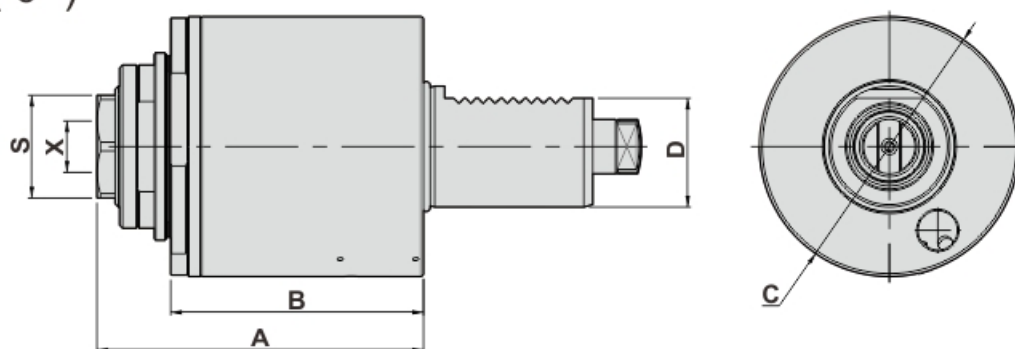
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	Code No.	Order No.	(Kg) Weight
25	1-13 ER20	26	6000	1:1	63.5	54	64	125101-000	DA251809ER20A	1.6
25	1-16 ER25	30	6000	1:1	67.5	54	64	125102-000	DA251809ER25A	1.6
40	2-20 ER32	38	6000	1:1	79.5	55.5	86	140103-000	DAC401809ER32A	3

AXIAL DRILLING AND MILLING HEADS

軸向鑽銑刀座 (0°)



- To be used for collet DIN 6499
- Internal coolant supply: 15bar 中心出水
- External coolant supply
- Collet is not included

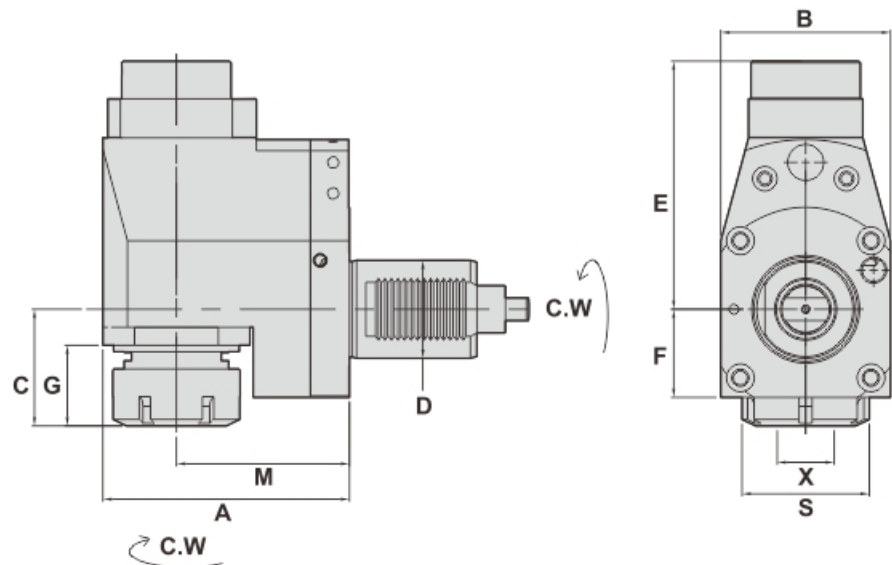
DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	Code No.	Order No.	(Kg) Weight
40	2-20 ER32	38	6000	1:1	108	83.5	86	140120-000	CWDA401809ER32A	4.1

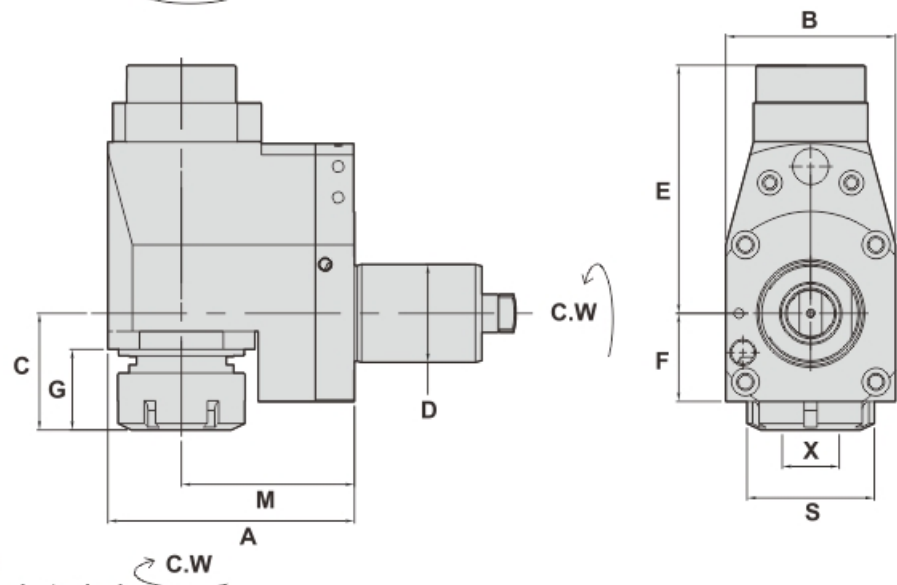
RADIAL MILLING AND DRILLING HEADS-OFFSET

徑向鑽銑刀座-後縮型 (90°)

MODE : BR
RIGHT-HAND



MODE : BL
LEFT-HAND



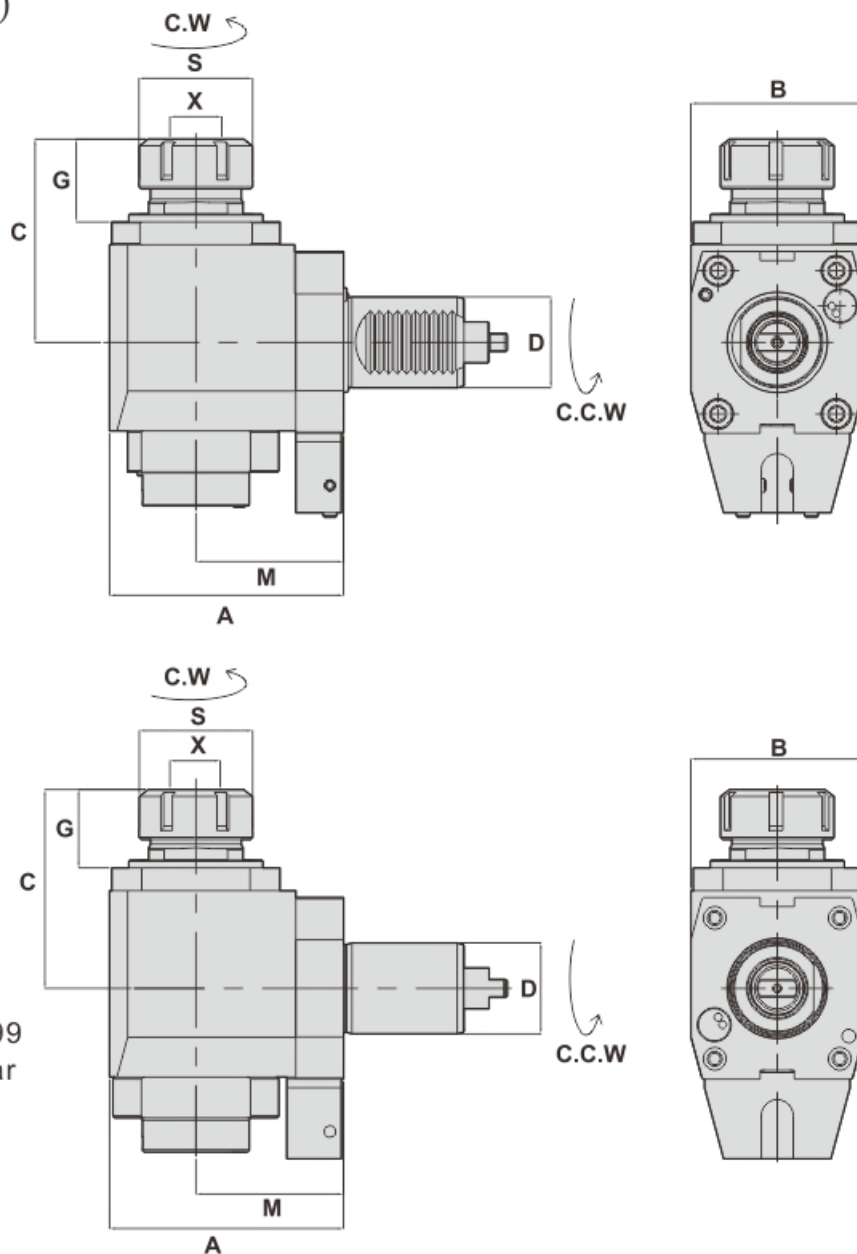
- To be used for collet DIN 6499
- Internal coolant supply: 50bar 中心出水
- External coolant supply
- Collet is not included

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	A	B	C	E	F	G	M	Code No.	Order No.	(Kg) Weight
40	2-20 ER32	50	4000	128	80	48	130	42	36.5	90	240106-000	CWBR4018093290	9.7
											240126-000	CWBL4018093290	
50	3-26 ER40	63	4000	129	86	48.5	133	42	38.5	90	250106-000	CWBR5018094090	10.5
											250126-000	CWBL5018094090	
60	3-26 ER40	63	4000	154	104	69	152	54	46.5	106	260108-000	CWBR60180940106	17.4
											260129-000	CWBL60180940106	
60	10-34 ER50	78	4000	154	104	71.5	152	54	49	106	260106-000	CWBR60180950106	17.3
											260126-000	CWBL60180950106	

RADIAL MILLING AND DRILLING HEADS

徑向鑽銑刀座 (90°)



- To be used for collet DIN 6499
- Internal coolant supply: 50bar
中心出水
- External coolant supply
- Collet is not included

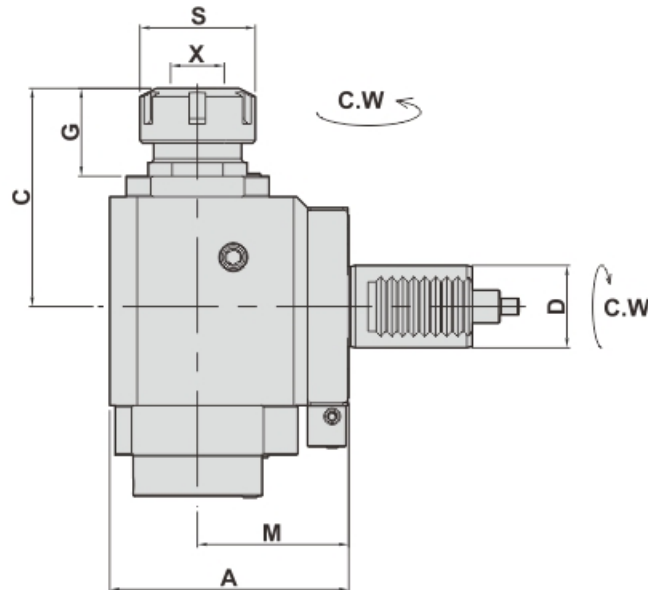
DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	G	M	Code No.	Order No.	(Kg) Weight
30	1-16 ER25	42	4000	1:1	87	64	79.5	32	55	230186-000	CWNFR3018092555	3.9
										2301101000	CWNFL3018092555	
										240186-000	CWNFR4018093265	
40	2-20 ER32	50	4000	1:1	103	76	88.5	34	65	2401106000	CWNFL4018093265	6.5
										240197-000	CWNFR4018093285	
										2401119000	CWNFL4018093285	
40	2-20 ER32	50	4000	1:1	123	76	88.5	34	85	240198-000	CWNFR40180932100	7.2
										2401120000	CWNFL40180932100	
										250186-000	CWNFR5018094075	
40	2-20 ER32	50	4000	1:1	138	76	88.5	34	100	2501106000	CWNFL5018094075	8
50	3-26 ER40	63	4000	1:1	123	88	117.5	51	75			12.3

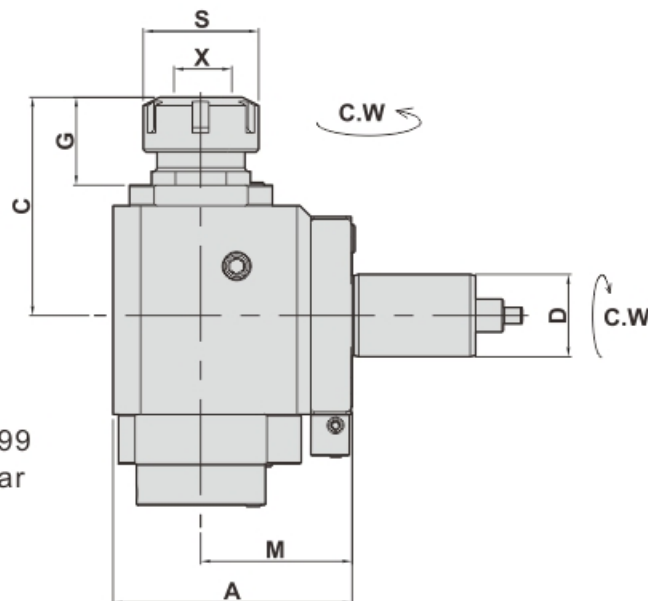
RADIAL MILLING AND DRILLING HEADS

徑向鑽銑刀座 (90°)

MODE : FL
LEFT-HAND



MODE : FR
RIGHT-HAND



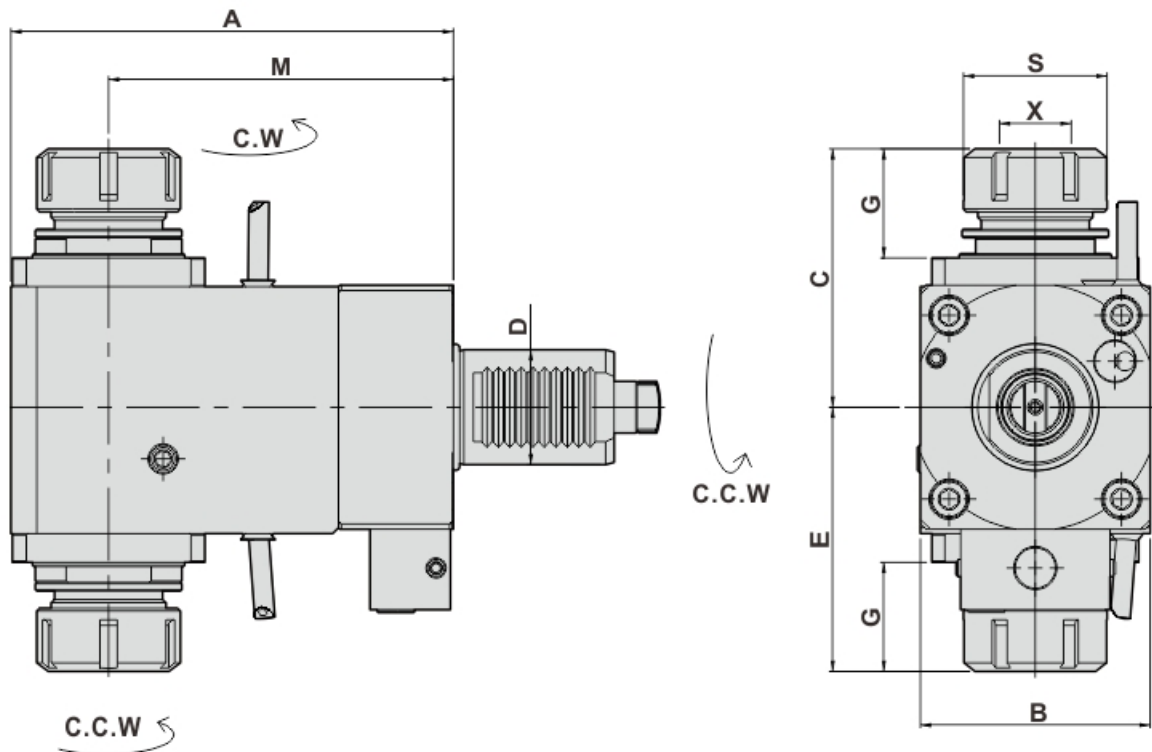
- To be used for collet DIN 6499
- Internal coolant supply: 50bar
中心出水
- External coolant supply
- Collet is not included

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	A	B	C	G	M	Code No.	Order No.	(Kg) Weight
30	1-16 ER25	42	4000	87	64	77.5	30	55	230146-000	CWFR3018092555	3.6
									230166-000	CWFL3018092555	
40	2-20 ER32	50	4000	103	76	87.5	34.5	65	240146-000	CWFR4018093265	6.1
									240166-000	CWFL4018093265	
40	2-20 ER32	50	4000	123	76	90.5	37.5	85	240154-000	CWFR4018093285	6.8
									240174-000	CWFL4018093285	

RADIAL DRILLING AND MILLING HEADS DOUBLE HEADS

徑向雙頭鑽銑刀座 (90°)



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

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	E	G	M	Code No.	Order No.	(Kg) Weight
30	1-16 ER25	42	4000	1:1	112	64	70.5	70.5	28.5	85	230175-000	FL3018092585D	4.8
40	2-20 ER32	50	4000	1:1	119	80	90	92	38	85	240175-000	FL4018093285D	7.5
40	2-20 ER32	50	4000	1:1	134	80	90	92	38	100	240176-000	FL40180932100D	8.3
40	2-20 ER32	50	4000	1:1	154	80	90	92	38	120	24016A-000	FL40180932120D	9

Other shank dimensions under development