# Index 2021 Evermore

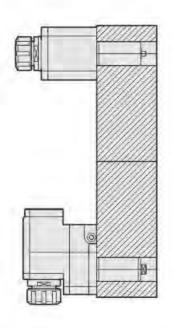
VDI	DIN 1809	A
VDI	DIN 5480	В
VDI	DIN 5482	C
VDI	MT	D
VDI	DIN 69880 STATIC TOOL HOLDER 固定刀座	F
VDI	HYDRAULIC DRIVEN HOLDER 油壓刀座	Н
VDI	DIN 69880 HAAS	I

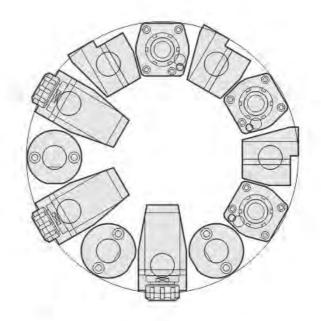


# 刀塔種類 (DIN 69880系)

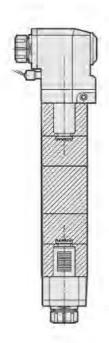
依入刀方向

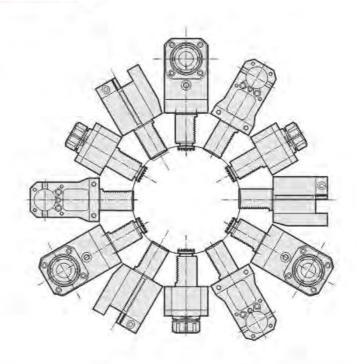
# A軸向入刀(axial),(axial turret)





# B徑向入刀(radial),(radial turret)









# 刀塔種類 (DIN 69880系)

依驅動齒 COUPLING

## A DIN 1809(DUPLOMATIC)



► Coupling to DIN 1809

## B DIN 5480(SAUTER)(DUPLOMATIC)



Coupling to DIN 5480

# C DIN 5482(SAUTER)



► Coupling to DIN 5482

# D MT (BARUFFALDI)

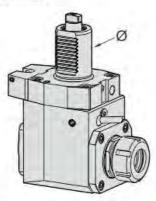


▶ Spur Coupling



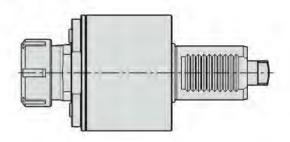
# Evermore

# EVERMORE 編碼 尺寸番號



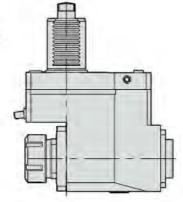
	VDI 20	VDI 25	VDI 30	VDI 40	VDI 50	VDI 60
Ømm	20	25	30	40	50	60

# DA 直向驅動



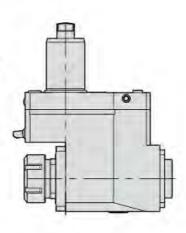


B: backward L: left hand

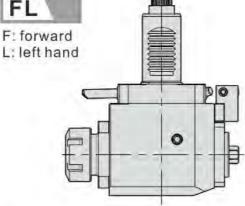




B: backward R: right hand

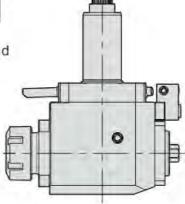








F: forward R: right hand





T: tapping 攻牙型

EX:

1.BR4018093290

此為VDI40,右手式,聯軸器為1809,後縮型,配ER32螺帽,中心距90mm。

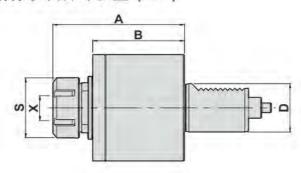
2.FL3054802555

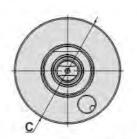
此為VDI30,左手式,聯軸器為5480(W16x0.8),前伸型,配ER25螺帽,中心距55mm。



### **AXIAL DRILLING AND MILLING HEAD**

軸向鑽銑刀座(0°)



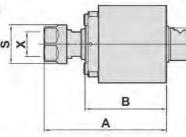


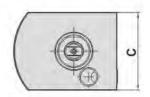


▲Coupling to DIN 1809

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	A STATE OF THE STA	X pacity	S	Maximum R.P.M	I	A	В	С	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
30	1-16	ER25	42	6000	1:1	87	57	68	130102-000	DAC30180925	1.9
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	3.1
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 HEAD**

軸向彈性攻牙刀座(0°)

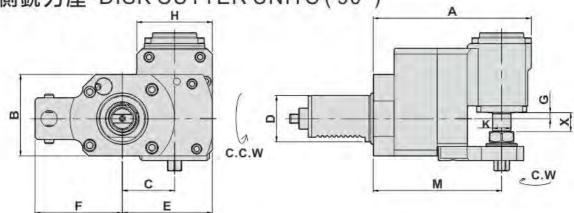
D DIN 69880	Сар	X acity	s	Maximum R.P.M	i	A	В	С	Code No.	Order No.	(Kg) Weight
30	1-10	ER16	30	3000	1:1	110	71.5	68	130116-000	TDA30180916	2.2
40	1-13	ER20	35	3000	1:1	95.5	56	86	140122-000	TDAC40180920	3
50	1-16	ER25	42	3000	1:1	123	81.5	96	150116-000	TDA50180925	5.5
60	2-20	ER32	50	3000	1:1	158.5	88.5	116	160116-000	TDA60180932	9.2



**DIN 1809** 

#### RADIAL DRILLING AND MILLING HEAD

徑向側銑刀座-DISK CUTTER UNITS (90°)



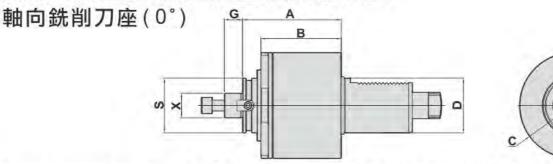
External coolant supply

● i=3倍減速

#### DIMENSIONS

D DIN 69880	X Capacity	Maximum R.P.M	1	A	В	С	E	F	G	н	K	M	Code No.	Order No.	(Kg) Weight		
0.0	4.0	2000		1.00					12		102		230107-000	BR30180916C/3			
30	16	3000	3:1	133	64	45	77.5	49	5	65	16	107.5	230127-000	BL30180916C/3	5.7		
-00	40	2000		400	~ .	a.e.		10		0.5	05.4	407.5	230109-000	BR30180925.4C/3			
30	16	3000	3:1	133	64	45	77.5	49	5	65	25.4	107.5	230129-000	BL30180925.4C/3	6		
40	40	2000		400	70	40		7.	-	0.5	10	340.5	240107-000	BR40180916C/3	0.4		
40	16	3000	3:1	136	70	45	77.5	75	5	65	16	110.5	240127-000	BL40180916C/3	6.4		
40	40	2000	2.4	400	70	45	77.5	75	-	5 65 25.4	65 25.4 110.	14.5	14.7	440.5	240109-000	BR40180925.4C/3	6.6
40	16	3000	3:1	136	70	45	77.5	75	5			110.5	240129-000	BL40180925.4C/3	0.0		

### **AXIAL SHELL END MILLING CUTTER**



- To be used for cutter arbor according to DIN 6358
- External coolant

D DIN 69880	X Capacity	Maximum R.P.M	s	ı	A	В	С	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	91

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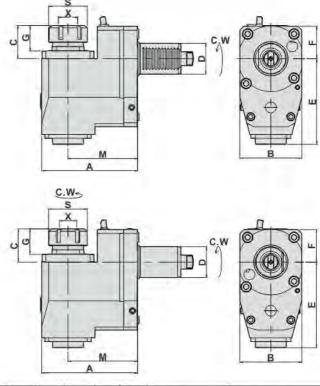
# RADIAL DRILLING AND MILLING HEADS

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	ī	A	В	c	E	F	G	M	Code No.	Order No.	(Kg) Weight
20	1-10	20	5000	4.4	00		07	70	0.7	00	00	220101-000	BR2018091660	0.0
20	ER16	30	5000	1:1	83	50	37	70	27	29	60	220121-000	BL2018091660	2.2
00	1-16	42	5000	404	00	00		75.5	04.5	20	72	230101-000	BR3018092572	0.5
30	ER25	42	5000	1:1	98	60	44	75.5	31.5	30	12	230121-000	BL3018092572	3.5
40	2-20		5000	1:1	404	00	45	444	42	25	00	240101-000	BR4018093290	0.0
40	ER32	50	5000	101	124	80	45	111	42	35	90	240121-000	BL4018093290	8.3
40	2-20 ER32	50	5000	1:1	179	80	45	111	42	35	145	240110-000	BR40180932145	12.2
	3-26		5006	404								250101-000	BR5018094090	22
50	ER40	63	5000	1:1	129	86	50	112	42	40	90	250121-000	BL5018094090	10
0.0	3-26		5000				76	400		2.1	400	260104-000	BR60180940106	46.5
60	ER40	63	5000	1:1	154	104	76	123	54	54	106	260124-000	BL60180940106	16.3
200	10-34			2.0	444			400	-1		200	260101-000	BR60180950106	1222
60	ER50	78	5000	1:1	154	104	74.5	123	54	52	106	260121-000	BL60180950106	16.5

## **RADIAL TAPPING HEAD**

徑向彈性攻牙刀座-後縮型(90°)

D DIN 69880	X Capacity	s	Maximum R.P.M	1	A	В	С	E	F	G	M	Code No.	Order No.	(Kg) Weight	
00	1-10	00	2000	354	00	00	F4	2	0.5			230105-000	TBR3018091672	0.5	
30	ER16	30	3000	1:1	98	60	51	75.5	3.5	38.5	12	230125-000	TBL3018091672	3.5	
30	1-13	35	2000	252	404	00		440	**	10.5	00	240105-000	TBR4018092090	0.5	
40	ER20	35	3000	1:1	124	80	59.5	110	42	49.5	90	240125-000	TBL4018092090	8.5	
50	1-16	40	2000	200	400	00		444	40	122		250105-000	TBR5018092590	40.0	
50	ER25	42	3000	1:1	129	86	54	112	45	55	90	250125-000	TBL5018092590	10.3	
00	2-20		2000		464	404	405	400		2 932 50		260105-000	TBR60180932106	40.0	
60	ER32	50 3000	3000	3000	1:1	154	104	105	123	54	82.5	106	260125-000	TBL60180932106	16.8



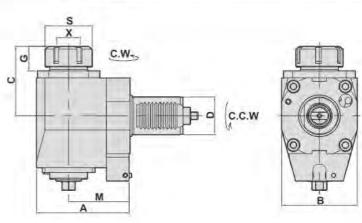
# RADIAL DRILLING AND MILLING HEAD

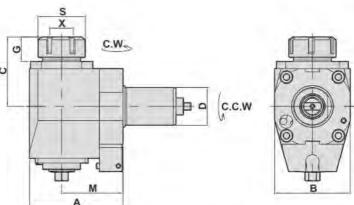
徑向鑽銑刀座(90°)

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	j	Α	В	С	G	М	Code No.	Order No.	(Kg) Weight
20	1-10	20	5000	4.4	67	50	cc	27	45	220141-000	FR2018091645	4.0
20	ER16	30	5000	1:1	67	50	66	21	45	220161-000	FL2018091645	1.8
20	1-16	42	5000	4.4	87	64	75	26	55	230141-000	FR3018092555	
30	ER25	42	5000	1:1	87	04	7.5	20	55	230161-000	FL3018092555	4
30	1-16	42	5000	1:1	117	64	75	26	85	230148-000	FR3018092585	4.6
30	ER25	42	5000	351	11.7	04	15	20	00	230168-000	FL3018092585	4.0
30	1-16	42	5000	1:1	132	64	75	26	100	230149-000	FR30180925100	5.1
30	ER25	42	3000	121	132	04	13	20	100	230169-000	FL30180925100	3.1
40	2-20	50	5000	1:1	99	80	80	29	65	240141-000	FR4018093265	6
40	ER32	50	3000	35.1	99	00	00	25	0.5	240161-000	FL4018093265	0
40	2-20	50	5000	1:1	119	80	80	29	85	240148-000	FR4018093285	7
40	ER32	50	3000	3.3	113	OU	00	25	00	240168-000	FL4018093285	- S.E.
40	2-20		5000	1:1	134	80	80	20	100	240149-000	FR40180932100	7.6
40	ER32	50	3000	1601	134	00	00	29 100	240169-000	FL40180932100	7.0	

#### **RADIAL TAPPING HEAD**

徑向彈性攻牙刀座(90°)

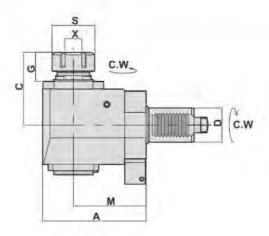
D DIN 69880	X Capacity	s	Maximum R.P.M	1	A	В	С	G	M	Code No.	Order No.	(Kg) Weight
20	1-10	20	2000	4.4	0.7	CA	07	27		230145-000	TFR3018091655	44
30	ER16	30	0 3000	1:1	87	64	87	37	55	230165-000	TFL3018091655	4.1
40	1-13	0.5	2000	4:4	00	00	0.4	40	CF	240145-000	TFR4018092065	0.4
40	ER20 35 3000		1:1	99	80	94	46	65	240165-000	TFL4018092065	6.1	



# RADIAL DRILLING AND MILLING HEAD

徑向鑽銑刀座(90°)

MODE: FL LEFT-HAND

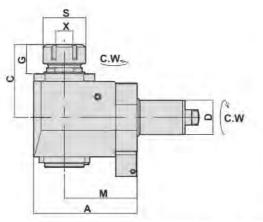




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MODE: FR RIGHT-HAND

- 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	Α	В	С	G	M	Code No.	Order No.	(Kg) Weight
40	2-20	50	5000			20	0.5	0.4	0.5	240181-000	NFR4018093265	
40	ER32	50	5000	1:1	101	80	85	34	65	2401101000	NFL4018093265	6
40	2-20	50	5000	4.4	404	00	0.5	24	0.5	240188-000	NFR4018093285	
40	ER32	50	5000	1:1	121	80	85	34	85	2401108000	NFL4018093285	7
40	2-20	50	5000		400	00	0.5	0.4	400	240189-000	NFR40180932100	7.0
40	ER32	50	5000	1:1	136	80	85	34	100	2401109000	NFL40180932100	7.6
40	2-20		5000	4.4	450	00	05.5	0.7	400	240194-000	NFR40180932120	
40	ER32	50	5000	1:1	158	80	95.5	37	120	2401117000	NFL40180932120	9
F.0	3-26	00	5000	3.32	445	00	440	40	75	250181-000	NFR5018094075	0.0
50	ER40	63	5000	1:1	115	88	110	43	75	2501101000	NFL5018094075	9.8
60	10-34 ER50	78	5000	1:1	156	104	139	56.5	106	260141-000	NFR60180950106	18.1

#### RADIAL TAPPING HEAD

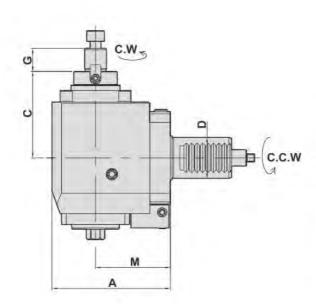
徑向彈性攻牙刀座(90°)

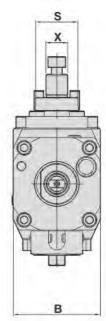
D DIN 69880	X Capacity	s	Maximum R.P.M	ŧ	A	В	С	G	M	Code No.	Order No.	(Kg) Weight
(3)	1-13		2000		404	00		0.5		240190-000	NTFR4018092065	
40	ER20	35	3000	1:1	101	80	105	25	65	2401105000	NTFL4018092065	6.1
16.41	1-13	25	2000	4.4	101	00	105		0.5	240191-000	NTFR4018092085	7 4
40	ER20	35	3000	1:1	121	80	105	55.5	85	2401111000	NTFL4018092085	
50	1-16			40	احدد	00		40		250188-000	NTFR5018092575	14690
	ER25 42	3000	1:1	115	88	105	42	75	2501105000	NTFL5018092575	9.9	

#### RADIAL SHELL END MILLING CUTTER

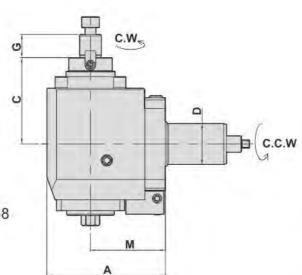
徑向銑削刀座(90°)

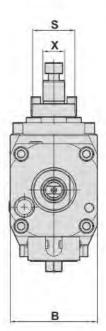
MODE: FL LEFT-HAND





MODE : FR RIGHT-HAND





- To be used for collet DIN 6358
- External coolant

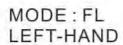
D DIN 69880	X DIN 6358	s	Maximum R.P.M	1	A	В	С	G	M	Code No.	Order No.	(Kg) Weight
0.0	40	230144-000 F	FR30180916C55	0.0								
30	16	32	5000	4:1	87	64	63.5	17	55	230164-000	FL30180916C55	3.8

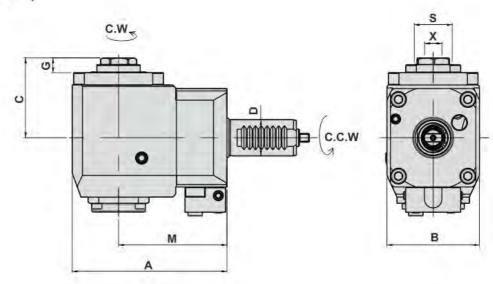




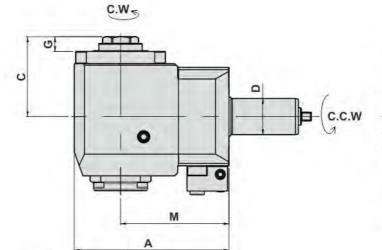
#### RADIAL DRILLING AND MILLING HEAD

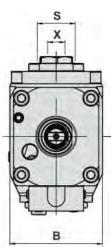
徑向鑽銑刀座(90°)





MODE: FR RIGHT-HAND





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

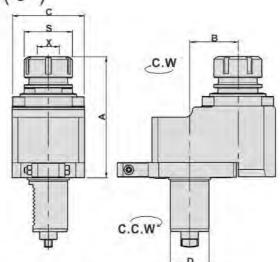
D DIN 69880	X Capacity	s	Maximum R.P.M	i	A	В	С	G	M	Code No.	Order No.	(Kg) Weight
0.5	1-13	30	5000	4.4	107	64	55	40	75	225141-000	FR25180920A75	2.0
25	ER20	30	5000	1:1	107	04	55	10	75	225161-000	FL25180920A75	3.9
0.5	1-16	32	5000	4.4	407	C 4	56	44	75	225142-000	FR25180925A75	2.0
25	ER25	32	5000	1:1	107	64	56	11	75	225162-000	FL25180925A75	3.9





### **AXIAL DRILLING AND MILLING HEAD**

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	В	С	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	62	130108-000	DA3018092529	2.8
*30	1-16 ER25	42	8000	1:2	100	29	62	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	178	65	104	160108-000	DA6018095065	17.3
60	10-34 ER50	78	3000	1:1	190	80	104	160109-000	DA6018095080	19.3

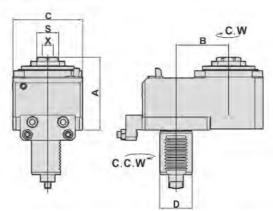
#### \*2倍增速

# AXIAL DRILLING AND MILLING HEAD

OFFSET-軸向偏心 鑽銑刀座(0°)

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

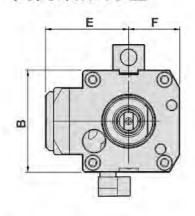
D DIN 69880	X Capacity	s	Maximum R.P.M	i	A	В	С	Code No.	Order No.	(Kg) Weight
40	1-16 ER25	30	4000	1:1	90	65	86	140110-000	DA40180925A65-L	7.1

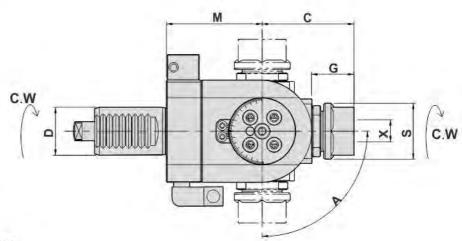


Evermo

#### **ANGULAR HEAD**

萬向鑽銑刀座





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

#### **DIMENSIONS**

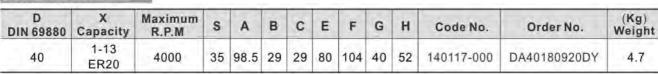
D DIN 69880	X Capacity	Maximum R.P.M	s	A	В	С	E	F	G	М	Code No.	Order No.	(Kg) Weight
30	1-13 ER20	4000	35	±90°	64	59	54	32	27	62	130115-000	DA30180920B	3
30	1-13 ER20	4000	35	±90°	64	59	54	32	27	80	130121-000	DA30180920B/L	3.6
40	1-16 ER25	4000	42	±90°	76	65	65	38	29	70	140115-000	DA40180925B	5.1
50	1-16 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

AXIAL DRILLING AND MILLING HEAD DOUBLE COLLETS, YOFFSET

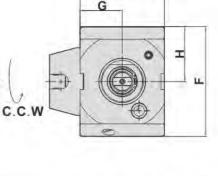
軸向鑽銑刀座--雙頭Y軸偏心(0°)

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

#### DIMENSIONS



В

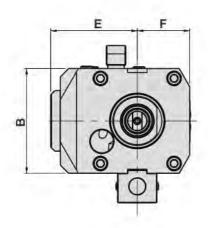


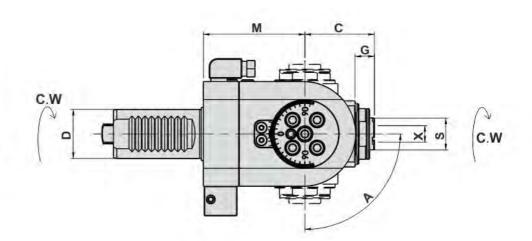
Ε



# **ANGULAR HEAD**

萬向鑽銑刀座





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

D DIN 69880	X Capacity	Maximum R.P.M	s	Α	В	С	E	F	G	М	Code No.	Order No.	(Kg) Weight
30	1-10 ER16	4000	35	±90°	64	43	54	32	12	62	130127-000	DA30180916BAC	3

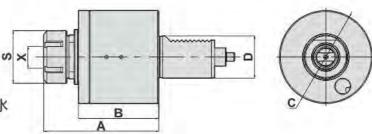




#### **AXIAL MILLING AND DRILLING HEAD**

軸向鑽銑刀座(0°)

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

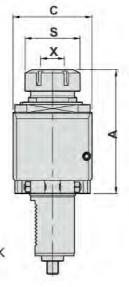


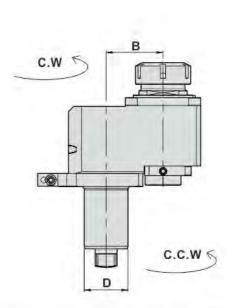
#### **DIMENSIONS**

D DIN 69880	X Capacity	s	Maximum R.P.M	Α	В	С	Code No.	Order No.	(Kg) Weight
30	1-16 ER25	42	6000	106	73.5	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 HEAD 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
- Collet is not included

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



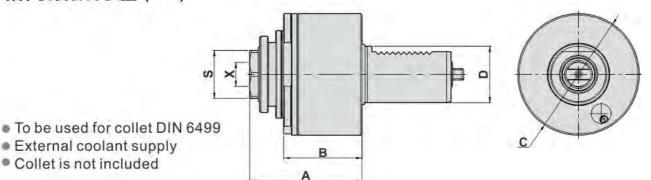


### **AXIAL DRILLING AND MILLING HEAD**

軸向鑽銑刀座(0°)

External coolant supply

Collet is not included

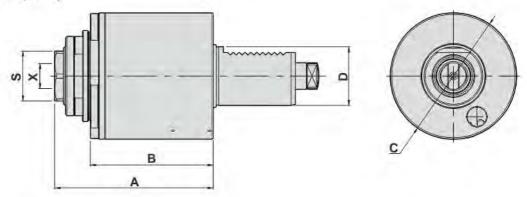


#### **DIMENSIONS**

D DIN 69880	X Capacity	s	Maximum R.P.M	i	A	В	С	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
30	1-16 ER25	30	6000	1:1	70.7	55,3	68	130103-000	DAC301809ER25A	1.8
40	2-20 ER32	38	6000	1:1	79.5	55.5	86	140103-000	DAC401809ER32A	3

#### **AXIAL DRILLING AND MILLING HEAD**

軸向鑽銑刀座(0°)



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

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

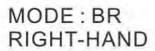


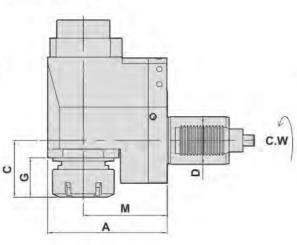


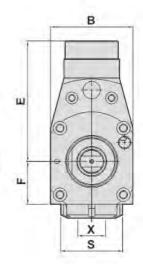
#### RADIAL MILLING AND DRILLING HEAD-OFFSET

C.W

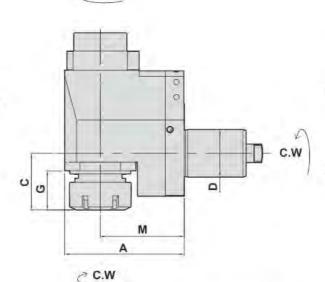
徑向鑽銑刀座-後縮型(90°)

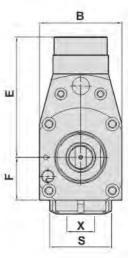






MODE : BL LEFT-HAND





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

D DIN 69880	X Capacity	s	Maximum R.P.M	A	В	С	E	F	G	M	Code No.	Order No.	(Kg) Weight
30	1-16 ER25	42	4000	96	62	44	98	32	30	69	230106-000	CWBR3018092569	4.1
.00	2 20 ED20		1000	400			400	40	20.5	00	240106-000	CWBR4018093290	
40	2-20 ER32	50	4000	128	80	48	130	42	36.5	90	240126-000	CWBL4018093290	9.7
	3-26 ER40	00	1000	400	00	40.5	400	40	20.5	00	250106-000	CWBR5018094090	40.5
50	3-20 ER40	63	4000	129	86	48.5	133	42	38.5	90	250126-000	CWBL5018094090	10.5
88	3-26 ER40	00	9252	454	404	00	450		40.5	400	260108-000	CWBR60180940106	17.4
60	3-20 ER40	63	4000	154	104	69	152	54	46.5	106	260129-000	CWBL60180940106	17.4
0.0	10 24 EDE0	70	4000	454	404	74.5	150	EA	40	400	260106-000	CWBR60180950106	17.3
60	10-34 ER50	78	4000	154	104	71.5	152	54	49	106	260126-000	CWBL60180950106	17.3

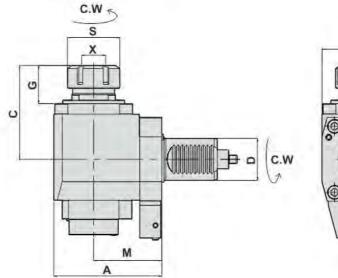




#### RADIAL MILLING AND DRILLING HEAD

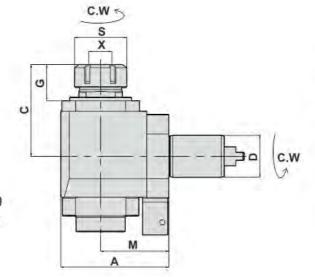
徑向鑽銑刀座(90°)

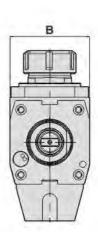
MODE: FL LEFT-HAND





MODE: FR RIGHT-HAND





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

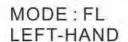
D DIN 69880	X Capacity	s	Maximum R.P.M	ţ	Α	В	С	G	M	Code No.	Order No.	(Kg) Weight
	1-16	16	1000	31.2			20		120	230186-000	CWNFR3018092555	
30	ER25	42	4000	1:1	87	64	80	32	55	2301101000	CWNFL3018092555	3.9
40	2-20		4000		100	70	-00		05	240186-000	CWNFR4018093265	0.5
40	ER32	50	4000	1:1	103	76	90	34	65	2401106000	CWNFL4018093265	6.5
40	2-20		1000		400	7.0		34	0.5	240197-000	CWNFR4018093285	7.0
40	ER32	50	4000	1:1	123	76	90	34	85	2401119000	CWNFL4018093285	7.2
40	2-20		1000		400	7.0	00	0.4	400	240198-000	CWNFR40180932100	
40	ER32	50	4000	1:1	138	76	90	34	100	2401120000	CWNFL40180932100	8
50	3-26 ER40 63	4000		100	00				250186-000	CWNFR5018094075	400	
50		4000	1:1	123	88	117.5	51	75	2501106000	CWNFL5018094075	12.3	

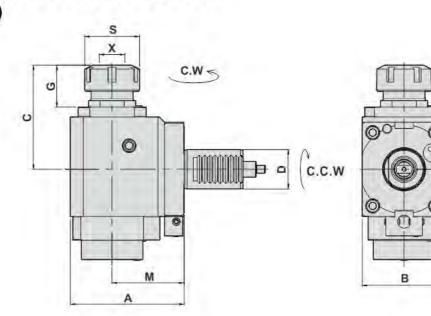


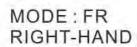


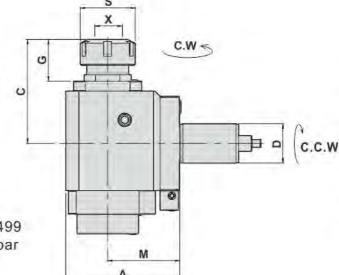
#### RADIAL MILLING AND DRILLING HEAD

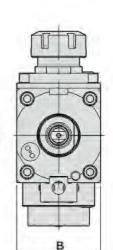
徑向鑽銑刀座(90°)











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

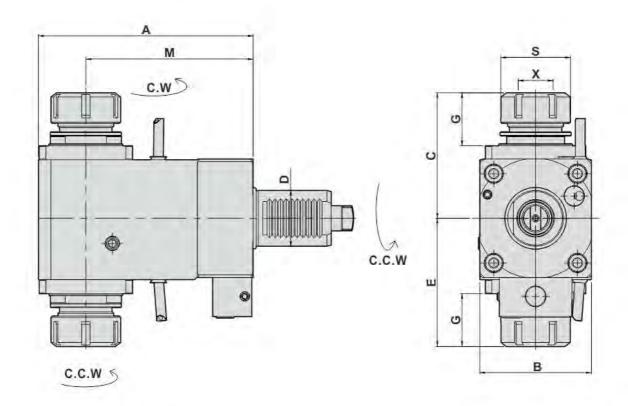
D DIN 69880	X Capacity	s	Maximum R.P.M	А	В	С	G	M	Code No.	Order No.	(Kg) Weigh
20	1-16 ER25	42	4000	87	64	80	30	55	230146-000	CWFR3018092555	3.6
30	1-10 EK25	42	4000	01	04	80	30	55	230166-000	CWFL3018092555	3.0
40	2 20 5022	50	4000	103	76	90	34	65	240146-000	CWFR4018093265	6.1
40	2-20 ER32	50	4000	103	10	90	34	65	240166-000	CWFL4018093265	0.1
40	2-20 ER32	50	4000	123	76	90	34	85	240154-000	CWFR4018093285	6.8
40	2-20 EK32	50	4000	123	70	90	34	00	240174-000	CWFL4018093285	0.0
40	2-20 ER32	50	4000	138	76	90	37	100	240158-000	CWFR40180932100	7.7
40	2-20 EK32	30	4000	130	10	90	31	100	240178-000	CWFL40180932100	1.1





# RADIAL DRILLING AND MILLING HEAD DOUBLE HEAD

徑向雙頭鑽銑刀座(90°)



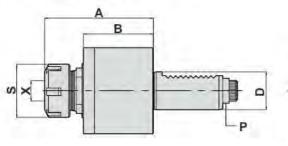
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

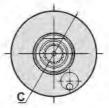
D DIN 69880	X Capacity	s	Maximum R.P.M	ï	A	В	С	E	G	М	Code No.	Order No.	(Kg) Weight
30	1-16 ER25	42	4000	1:1	113	64	83	83	30	85	230175-000	FL3018092585D	4.8
30	1-16 ER25	42	4000	1:1	127	64	72	72	30	100	230176-000	FL30180925100D	5.3
40	2-20 ER32	50	4000	1:1	119	80	90	92	38	85	240175-000	FL4018093285D	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





# **AXIAL DRILLING AND MILLING HEAD** 軸向鑽銑刀座(0°)





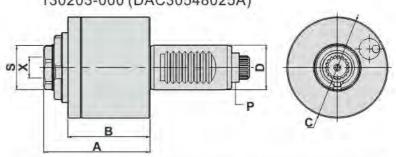


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▲Coupling to DIN 5480 Power transmission according to DIN 5480

130203-000 (DAC30548025A)

- 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	L	A	В	С	P DIN 5480	Code No.	Order No.	(Kg) Weight
20	1-10 ER16	30	6000	1:1	76	48	58	W11x0.8	120201-000	DA20548016	1.1
30	1-16 ER25	30	6000	1:1	70	55	68	W16x0.8	130203-000	DAC30548025A	1.8
30	1-16 ER25	42	6000	1:1	85	57	68	W16x0.8	130202-000	DAC30548025	1.9
30	1-16 ER25	42	6000	1:1	101	71.5	68	W16x0.8	130201-000	DA30548025	2.2
30	2-20 ER32	50	6000	1:1	120.5	71.5	68	W16x0.8	130218-000	DA30548032	2.5
40	1-10 ER16	30	6000	1:1	83.1	56	86	W20x0.8	140226-000	DAC40548016	3
40	1-16 ER25	42	6000	1:1	88.5	56	86	W20x0.8	140227-000	DAC40548025	3
40	2-20 ER32	50	6000	1:1	92.5	56	86	W20x0.8	140202-000	DAC40548032	3.1
40	2-20 ER32	38	6000	1:1	74	56	86	W20x0.8	140203-000	DAC40548032A	3
40	2-20 ER32	50	6000	1:1	111	75	86	W20x0.8	140201-000	DA40548032	3.8
40	3-26 ER40	63	6000	1:1	125	75	86	W20x0.8	140218-000	DA40548040	4.1
50	3-26 ER40	63	6000	1:1	124	82	96	W24x1.25	150201-000	DA50548040	5.7
60	10-34 ER50	78	6000	1:1	142	88	116	W30x1.25	160201-000	DA60548050	9.3

#### **AXIAL TAPPING HEAD**

軸向彈性攻牙刀座(0°)

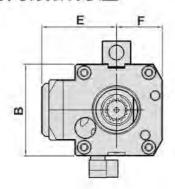
D DIN 69880	X Capacity	s	Maximum R.P.M	ï	A	В	c	P DIN 5480	Code No.	Order No.	(Kg) Weight
30	1-10 ER16	30	3000	1:1	108	71.5	68	W16x0.8	130216-000	TDA30548016	2.3
40	1-13 ER20	35	3000	1:1	95.5	56	86	W20x0.8	140222-000	TDAC40548020	3.1
50	1-16 ER25	42	3000	1:1	123	81.5	96	W24x1.25	150216-000	TDA50548025	5.7
60	2-20 ER32	50	3000	1:1	158.5	88.5	116	W30x1.25	160216-000	TDA60548032	9.3

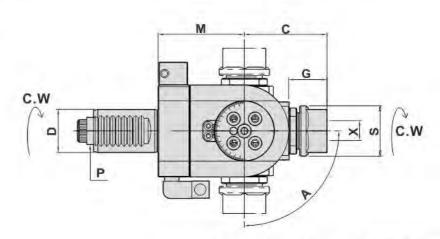




#### **ANGULAR HEAD**

萬向鑽銑刀座





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

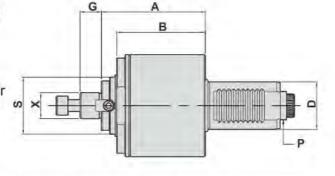
#### **DIMENSIONS**

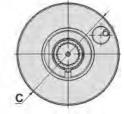
D DIN 69880	X Capacity	Maximum R.P.M	s	Α	В	С	E	F	G	M	P DIN 5480	Code No.	Order No.	(Kg) Weight
30	1-13 ER20	4000	35	±90°	64	59	54	32	27	62	W16x0.8	130215-000	DA30548020B	3.1
40	1-16 ER25	4000	42	±90°	76	65	65	38	29	70	W20x0.8	140215-000	DA40548025B	5.2
50	1-16 ER25	4000	42	±90°	90	80	85	45	32	85	W24x1,25	150215-000	DA50548025B	9.2
60	3-26 ER40	4000	63	±90°	108	96	92.5	55	39	97	W30x1.25	160215-000	DA60548040B	16.2

### **AXIAL SHELL END MILLING CUTTER**

軸向鑽銑刀座(0°)

- To be used for cutter arbor according to DIN6358
- External coolant





D DIN 69880	X DIN 6358	Maximum R.P.M	s	Α	В	С	G	P DIN 5480	Code No.	Order No.	(Kg) Weight
30	16	3000	32	85.5	71.5	68	17	W16x0.8	130206-000	DA30548016C	2.3
40	16	3000	32	69	56	86	17	W20x0.8	140231-000	DAC40548016C	3
40	22	3000	48	69	56	86	18	W20x0.8	140232-000	DAC40548022C	3.2

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# RADIAL DRILLING AND MILLING HEAD

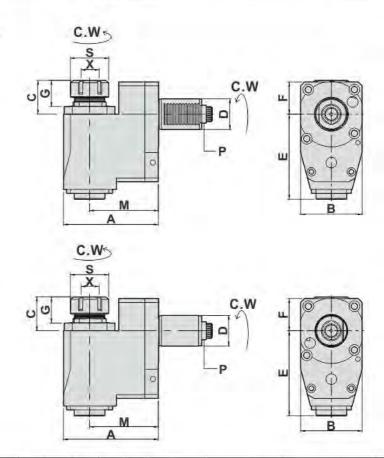
徑向鑽銑刀座-後縮型 OFFSET (90°)

> 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	Α	В	C	E	F	G	M	P DIN 5480	Code No.	Order No.	(Kg) Weight
20	1-10	30	5000	1:1	88	50	37	70	27	28.5	65	W11x0.8	220201-000	BR2054801665	2.4
20	ER16	SU	2000	25.4	00	50	31	70	21	20.5	03	VVIIXU.O	220221-000	BL2054801665	2.4
30	1-16	42	5000	1:1	98	60	44	7E E	31.5	30	72	W16x0.8	230201-000	BR3054802572	3.6
30	ER25	42	2000	484	90	00	44	15.5	31.5	30	12	VV TOXU.O	230221-000	BL3054802572	3.0
40	2-20	50	5000	1:1	124	80	45	111	42	35	90	W20x0.8	240201-000	BR4054803290	8.3
40	ER32	50	3000	16.1	124	00	45	333	42	.55	90	VVZUXU.0	240221-000	BL4054803290	0.3
50	3-26	63	5000	1:1	129	86	50	112	42	40	90	W24x1.25	250201-000	BR5054804090	10
50	ER40	03	5000	161	129	00	50	112	42	40	90	VV24X1.25	250221-000	BL5054804090	1.0
60	10-34	78	5000	1:1	154	104	77	123	54	54	106	W30x1.25	260202-000	BR60548050106	16.8
00	ER50	10	5000	35.1	154	104	11	123	54	54	100	VV3UX1.23	260221-000	BL60548050106	10.0

## RADIAL TAPPING HEAD

徑向彈性攻牙刀座-後縮型(90°)

D DIN 69880	X Capacity	s	Maximum R.P.M	i	A	В	С	E	F	G	M	P DIN 5480	Code No.	Order No.	(Kg) Weight
20	1-10	30	2000	ded	88		70.5	70	27	C4.5	0.5	W/440 0	220202-000	TBR2054801665	0.5
20	ER16	30	3000	1:1	88	50	72.5	70	27	64.5	65	W11x0.8	220222-000	TBL2054801665	2.5
20	1-10	00	2000	40.4		00		75.5		00.5	70	1440.00	230205-000	TBR3054801672	0.0
30	ER16	30	3000	1:1	98	60	51	75.5	31.5	38.5	12	W16x0.8	230225-000	TBL3054801672	3.6
18	1-13		2000					222		10.5	52		240205-000	TBR4054802090	
40	ER20	35	3000	1:1	124	80	59.5	110	42	49.5	90	W20x0.8	240225-000	TBL4054802090	8.5



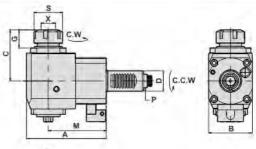
TYPE

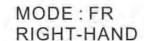
**DIN 5480** 

# RADIAL DRILLING AND MILLING HEAD

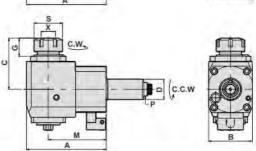
徑向鑽銑刀座(90°)

MODE: FL LEFT-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	Ĺ	Α	В	С	G	М	P DIN 5480	Code No.	Order No.	(Kg) Weight
00	1-10		5000		100		Carlo	could.	COLD!	11111	220241-000	FR2054801650	4.0
20	ER16	30	5000	1:1	72	50	65	26.5	50	W11x0.8	220261-000	FL2054801650	1.8
20	1-16	42	5000	5.9	525	COL	1.50	100	-23	1440.00	230241-000	FR3054802555	4
30	ER25	42	5000	1:1	87	64	75	26	55	W16x0.8	230261-000	FL3054802555	4
20	1-16	42	5000	4.00	200	60	100	-200	65	1440.00	230248-000	FR3054802585	4.6
30	ER25	42	5000	1:1	117	64	75	26	85	W16x0.8	230268-000	FL3054802585	4.6
20	1-16	42	5000	4.4		4.				14/40-00	230249-000	FR30548025100	5.1
30	ER25	42	5000	1:1	132	64	75	26	100	W16x0.8	230269-000	FL30548025100	5.1
40	2-20	50	5000	2.2		-		2.7		14/00-0 0	240241-000	FR4054803265	- 6
40	ER32	50	5000	1:1	99	80	80	29	65	W20x0.8	240261-000	FL4054803265	0
40	2-20	50	5000		17700		-			14/20-0.0	240248-000	FR4054803285	7
40	ER32	50	5000	1:1	119	80	80	29	85	W20x0.8	240268-000	FL4054803285	· · · ·
40	2-20	50	5000	4.0		0.0		00	400	W20x0.8	240249-000	FR40548032100	7.6
40	ER32	50	5000	1:1	134	80	80	29	100	W20x0.8	240269-000	FL40548032100	7.0
40	2-20		5000	2.4	92.7			200	100	W00-00	240255-000	FR40548032120	8.3
40	ER32	50	5000	1:1	154	80	80	29	120	W20x0.8	240272-000	FL40548032120	0.3

#### **RADIAL TAPPING HEAD**

徑向彈性攻牙刀座(90°)

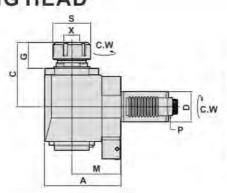
D DIN 69880	X Capacity	s	Maximum R.P.M	1	A	В	С	G	М	P DIN 5480	Code No.	Order No.	(Kg) Weight
20	1-10		0000	4.4	0.7		0.7	07		1440.00	230245-000	TFR3054801655	1
30	ER16	30	3000	1:1	87	64	87	37	55	W16x0.8	230265-000	TFL3054801655	4.1
30	1-10	30	3000	1:1	117	64	87	37	85	WAC-O O	230250-000	TFR3054801685	
30	ER16	30	3000	1:4	1117	64	8/	3/	85	W16x0.8	230270-000	TFL3054801685	4.7
30	1-10	30	3000	1:1	127	64	87	37	100	W16x0.8	230251-000	TFR30548016100	
30	ER16	30	3000	1.1	127	04	0/	3/	100	VV IOXU.O	230271-000	TFL30548016100	5.2
40	1-13	0.5	2000	1:1	99	80	94	46	65	W20x0.8	240245-000	TFR4054802065	
40	ER20	35	3000	1.3	99	00	94	40	00	VVZUXU.8	240265-000	TFL4054802065	6.1
40	1-13	35	3000	1:1	119	80	94	46	85	W20x0.8	240250-000	TFR4054802085	74
40	ER20	35	3000	151	119	80	94	40	83	VVZUXU.0	240270-000	TFL4054802085	7.1
40	1-13	25	3000	1:1	134	80	94	46	100	W20x0.8	240251-000	TFR40548020100	7.7
40	ER20	35	3000	1.1	134	00	94	40	100	VVZUXU.0	240271-000	TFL40548020100	7.7



#### RADIAL DRILLING AND MILLING HEAD

徑向鑽銑刀座(90°)

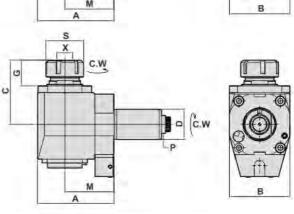
MODE: FL LEFT-HAND





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	ī	A	В	С	G	M	P DIN 5480	Code No.	Order No.	(Kg) Weight
-72	2-20	20	3.37 =	4.4	404		0.5	34		14100 0 0	240281-000	NFR4054803265	P 2 1
40	ER32	50	5000	1:1	101	80	85	34	65	W20x0.8	2402101000	NFL4054803265	6
40	2-20	50	5000	4.4	121	80	85	34	85	W20x0.8	240288-000	NFR4054803285	-
40	ER32	50	5000	1:1	121	00	00	34	00	VV2UXU.0	2402108000	NFL4054803285	7
40	2-20		5000	1:1	136	80	85	34	100	W20x0.8	240289-000	NFR40548032100	
40	ER32	50	5000	1.21	130	ou	-00	34	100	VV2UXU.6	2402109000	NFL40548032100	7.6
40	2-20		5000	4.4	158	80	95.5	37	120	W20x0.8	240294-000	NFR40548032120	
40	ER32	50	5000	1:1	156	00	95.5	31	120	VV2UXU.0	2402104000	NFL40548032120	9.
	3-26	63	5000	4.4	115	88	444	44	75	W24x1.25	250288-000	NFR5054804075	0.0
50	ER40	63	5000	1:1	115	00	111	44	15	VVZ4X1.25	2502108000	NFL5054804075	9.8
	3-26	63	5000	4.4	110	88	440	43	100	W24x1.25	250289-000	NFR50548040100	44.7
50	ER40	63	5000	1:1	140	00	110	43	100	VVZ4X1.25	2502109000	NFL50548040100	11.7
	10-34	70		a cal	450	404	400	FC 5	400	Wand of	260281-000	NFR60548050106	404
60	ER50	78	5000	1:1	156	104	139	56.5	106	W30x1.25	2602101000	NFL60548050106	18.1

# RADIAL TAPPING HEAD

徑向彈性攻牙刀座(90°)

D DIN 69880	X Capacity	s	Maximum R.P.M	i	Α	В	С	G	M	P DIN 5480	Code No.	Order No.	(Kg) Weight
40	1-13	0.5	2000	4.4	101	00	405	25	CF	W20x0.8	240285-000	NTFR4054802065	
40	ER20	35	3000	1:1	101	80	105	25	65	W20X0.8	2402105000	NTFL4054802065	6.1
46	1-13	35	0000	4.4	404	00	405	25	85	W20x0.8	240290-000	NTFR4054802085	432
40	ER20	35	3000	1:1	121	80	105	25	85	W20X0.8	2402110000	NTFL4054802085	7.1
40	1-13	0.5	2000	1:1	136	80	105	25	100	W20x0.8	240291-000	NTFR40548020100	22
40	ER20	35	3000	dåd.	130	80	105	25	100	VV2UXU.8	2402111000	NTFL40548020100	7.7
50	1-16		2000	4.4	440	400	446	48	400	14/04 -4 05	250251-000	NTFR50548025100	
50	ER25	42	3000	1:1	140	100	118	51	100	W24x1.25	250271-000	NTFL50548025100	11.8

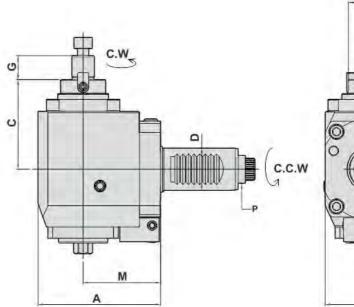


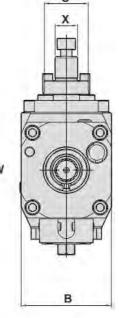


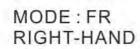
## RADIAL SHELL END MILLING CUTTER

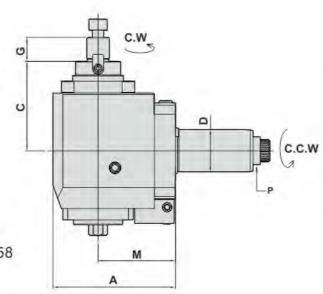
徑向銑削刀座(90°)

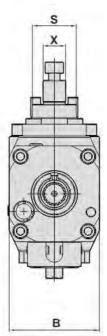
MODE: FL LEFT-HAND











# To be used for collet DIN 6358

#### External coolant and

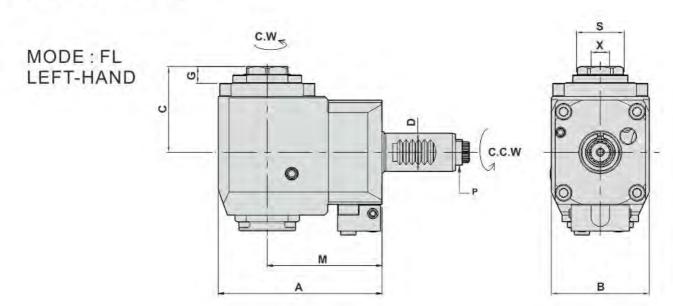
D DIN 69880	X DIN 6358	Maximum R.P.M	s	i	Α	В	С	G	M	P DIN 5480	Code No.	Order No.	(Kg) Weight
0.0	40	5000	200	acal.	0.7		00.5	2-		11110.00	230244-000	FR30548016C55	0.0
30	16	5000	32	1:1	87	64	63.5	17	55	W16x0.8	230264-000	FL30548016C55	3.8

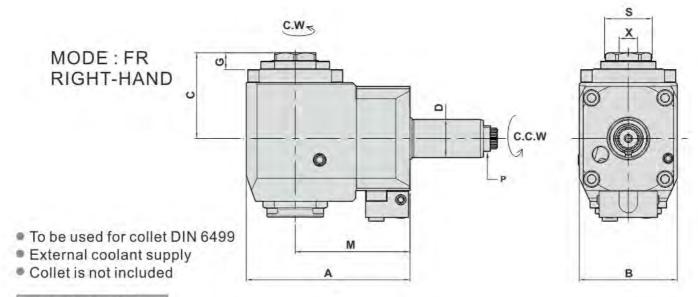




### RADIAL DRILLING AND MILLING HEAD

徑向鑽銑刀座(90°)





D DIN 69880	X DIN 6358	Maximum R.P.M	s	i	Α	В	С	G	M	P DIN 5480	Code No.	Order No.	(Kg) Weight
0.5	1-16	5000	20	202	407	0.4		11	75	111111111111111111111111111111111111111	225243-000	FR25548025A75	0.0
25	ER25	5000	32	1:1	107	64	56	11	75	W14x0.8	225261-000	FL25548025A75	3.9

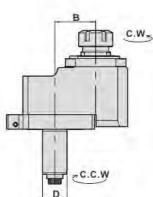




## AXIAL DRILLING AND MILLING HEAD

OFFSET-軸向偏心鑽銑刀座(0°)





- Collet is not included

#### DIMENSIONS

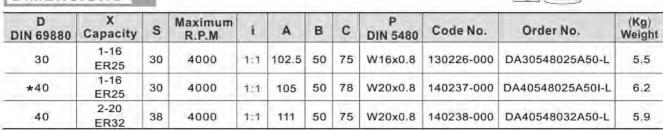
D DIN 69880	X Capacity	s	Maximum R.P.M	É	A	В	С	P DIN 5480	Code No.	Order No.	(Kg) Weight
30	1-16 ER25	42	4000	1:1	100	29	62	W16x0.8	130208-000	DA3054802529	2.8
<b>*</b> 30	1-16 ER25	42	8000	1:2	100	29	62	W16x0.8	130211-000	DA3054802529/1	2.8
30	1-16 ER25	42	4000	1:1	108	35	62	W16x0.8	130229-000	DA3054802535	3.2
30	1-16 ER25	42	4000	1:1	121	50	75	W16x0.8	130209-000	DA3054802550	4.8
*30	1-16 ER25	42	8000	1:2	106	50	75	W16x0.8	130212-000	DA3054802550/1	4.8
40	2-20 ER32	50	4000	1:1	125	50	75	W20x0.8	140208-000	DA4054803250	6
50	3-26 ER40	63	4000	1:1	126	65	86	W24x1.25	150208-000	DA5054804065	8.6

#### \*2倍增速

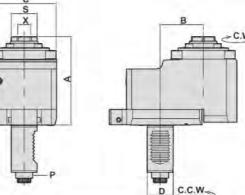
#### **AXIAL DRILLING AND MILLING HEAD**

OFFSET - 軸向偏心鑽銑刀座(0°)

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



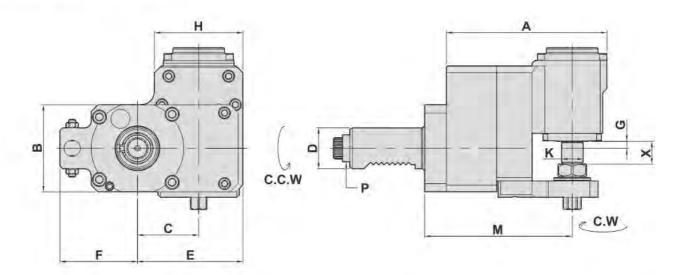






#### RADIAL DRILLING AND MILLING HEAD

DISK CUTTER UNITS 徑向側銑刀座(90°)



External coolant supply

# DIMENSIONS

D DIN 69880	X Capacity	Maximum R.P.M	ĭ	A	В	С	E	F	G	н	K	М	P DIN 5480	Code No.	Order No.	(Kg) Weight
30	16	3000	2.1	122	GA.	A.E.	77.5	57	5	GE	16	100 5	W16x0.8	230207-000	BR30548016C/3	5.7
30	10	3000	3.1	133	04	45	77.5	51	o	co	10	100.5	W TOXU.6	230227-000	BL30548016C/3	5.7
30	16	3000	3:1	122	GA.	AE	77.5	57	5	GE.	2E A	100 E	W16x0.8	230209-000	BR30548025.4C/3	6
30	10	3000	3.1	133	04	45	11.5	31	ې	00	25.4	100.5	W TOXU.O	230229-000	BL30548025.4C/3	Ü
40	16	3000	2.1	136	70	15	77.5	60	5	GE	16	110 5	W20x0.8	240207-000	BR40548016C/3	6.4
40	10	3000	3.1	130	70	43	11.5	00	5	03	10	110.5	VVZUXU.0	240227-000	BL40548016C/3	0.4
40	16	3000	3:1	136	70	45	77.5	68	5	65	22	110.5	W20x0.8	240231-000	BR40548022C/3	6.5
40	16	3000	3:1	136	70	15	77 5	68	5	65	25.4	110.5	W20x0.8	240209-000	BR40548025.4C/3	6.6
70	10	3000	U.	130	7.0	40	17.5	00	3	00	20.4	110.5	VVZUXU.0	240229-000	BL40548025.4C/3	0.0

★i=3倍減速

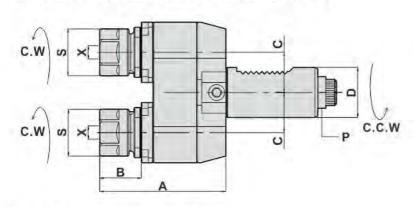


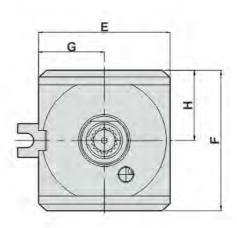


**DIN 5480** 

# AXIAL DRILLING AND MILLING HEAD DOUBLE COLLETS, YOFFSET

軸向鑽銑刀座--雙頭Y軸偏心(0°)





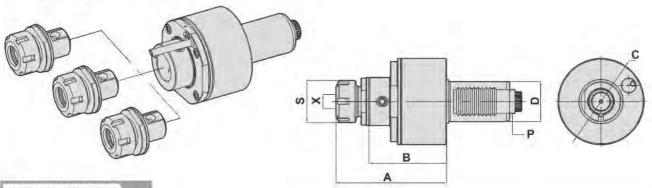
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

#### DIMENSIONS

D DIN 69880	X Capacity	Maximum R.P.M	s	Α	В	С	E	F	G	н	P DIN 5480	Code No.	Order No.	(Kg) Weight
30	1-10 ER16	4000	30	86	23	24	80	95	40	47.5	W16x0.8	130217-000	DA30548016DY	3.2
40	1-13 ER20	4000	35	99	30	29	80	104	40	52	W20x0.8	140217-000	DA40548020DY	4.5

# AXIAL MILLING AND DRILLING HEAD Quick-change Clamping System

軸向快換鑽銑刀座(0°)



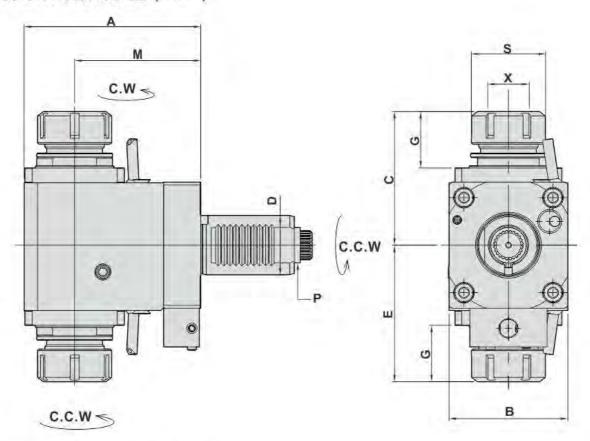
D DIN 69880	X Capacity	Maximum R.P.M	s	A	В	С	P DIN 5480	Code No.	Order No.	(Kg) Weight
40	1-16 ER25	6000	40	110.5	77.5	86	W20x0.8	140239-000	DAC40548025-QF	3.3
40	2-20 ER32	6000	50	129.5	77.5	86	W20x0.8	140236-000	DAC40548032-QF	3.6





# RADIAL DRILLING AND MILLING HEAD DOUBLE HEAD

徑向雙頭鑽銑刀座(90°)



- 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	Α	В	С	E	G	M	P DIN 5480	Code No.	Order No.	(Kg) Weight
30	1-16 ER25	42	4000	1:1	112	64	72	72	30	85	W16x0.8	230275-000	FL3054802585D	4.4
30	1-16 ER25	42	4000	1:1	127	64	72	72	30	100	W16x0.8	230276-000	FL30548025100D	4.8
40	2-20 ER32	50	4000	1:1	119	80	90	92	38	85	W20x0.8	240275-000	FL4054803285D	7.5
40	2-20 ER32	50	4000	1:1	134	80	90	92	38	100	W20x0.8	240276-000	FL40548032100D	8.2
40	2-20 ER32	50	4000	1:1	154	80	90	92	38	120	W20x0.8	240278-000	FL40548032120D	9.1

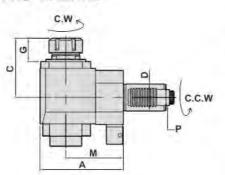




#### RADIAL DRILLING AND MILLING HEAD

徑向鑽銑刀座(90°)

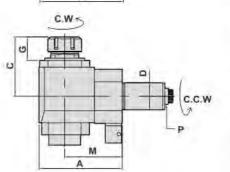
MODE:FL LEFT-HAND





MODE:FR RIGHT-HAND

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



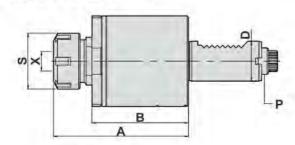


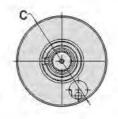
#### DIMENSIONS

D DIN 69880	X Capacity	s	Maximum R.P.M	1	A	В	С	G	М	P DIN 5480	Code No.	Order No.	(Kg) Weight
46	2-20			5.2	400	7.0			65	11100 0 0	240246-000	CWFR4054803265	
40	ER32	50	5000	1:1	103	76	89.5	36.5	65	W20x0.8	240266-000	CWFL4054803265	6.1
40	2-20	50	5000	2.4	400	70	00.5	20.5	0.5	14/00-00	240254-000	CWFR4054803285	0.0
40	ER32	50	5000	1:1	123	76	89.5	36.5	85	W20x0.8	240274-000	CWFL4054803285	6.8
40	2-20	50	5000	204	400	70	20.5	20.5	400	14100-0-0	240257-000	CWFR40548032100	7.0
40	ER32	50	5000	1;1	138	76	89.5	36.5	100	W20x0.8	240277-000	CWFL40548032100	7.6

#### 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
- Collet is not included

D DIN 69880	X Capacity	s	Maximum R.P.M	í	Α	В	С	P DIN 5480	Code No.	Order No.	(Kg) Weight
20	1-10 ER16	30	6000	1:1	88.5	61	58	W11x0.8	120207-000	CWDA20548016	1.3
30	1-16 ER25	42	6000	1:1	102	72	68	W16x0.8	130207-000	CWDA30548025	2.3
40	2-20 ER32	50	6000	1:1	126	84.6	86	W20x0.8	140207-000	CWDA40548032	3.6
50	3-26 ER40	63	6000	1:1	136.5	94.5	96	W24x1.25	150207-000	CWDA50548040	6.4

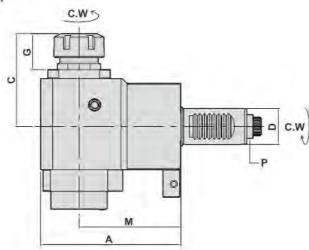


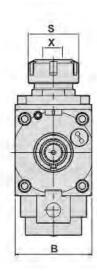


#### RADIAL MILLING AND DRILLING HEAD

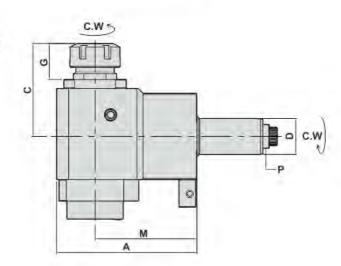
徑向鑽銑刀座(90°)

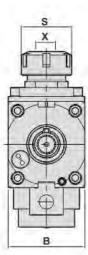
MODE: FL LEFT-HAND





MODE: FR RIGHT-HAND





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

D DIN 69880	X Capacity	s	Maximum R.P.M	į	A	В	С	G	M	P DIN 5480	Code No.	Order No.	(Kg) Weight
0.0	1-16	40	1000	5.2	07		70	0.0	-	1440.00	230286-000	CWNFR3054802555	
30	ER25	42	4000	1:1	87	64	79	30	55	W16x0.8	2302112000	CWNFL3054802555	3.9
0.0	1-16	40	4000	aba a	444		70	00	0.5	WW0.00	230294-000	CWNFR3054802585	-
30	ER25	42	4000	1:1	117	64	79	30	85	W16x0.8	2302113000	CWNFL3054802585	5
20	1-16	40	4000		400		70	20	400	W40.00	230295-000	CWNFR30548025100	
30	ER25	42	4000	1:1	132	64	79	30	100	W16x0.8	2302114000	CWNFL30548025100	5.6
	2-20		4000	2.7					-00		240286-000	CWNFR4054803265	
40	ER32	50	4000	1:1	103	76	90	32.5	62	W20x0.8	2402106000	CWNFL4054803265	6.5
	3-26	20	4000	ava	***			16		11/04 4 05	250286-000	CWNFR5054804075	400
50	ER40	63	1000	1:1	123	88	38 115.5 49 75 W24x	W24x1.25	2502106000	CWNFL5054804075	12.3		

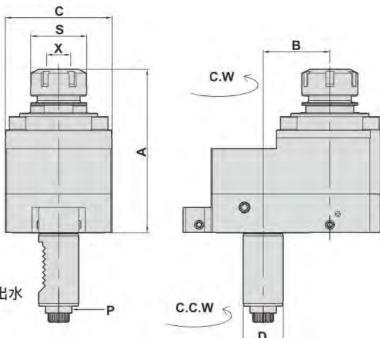




#### **AXIAL DRILLING AND MILLING HEAD**

**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

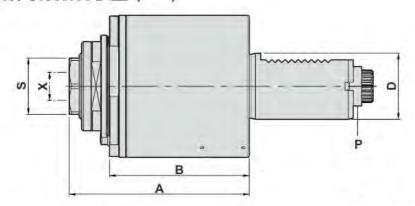
Collet is not included

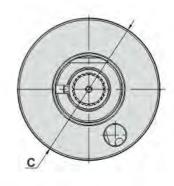
#### DIMENSIONS

D DIN 69880	X Capacity	s	Maximum R.P.M	i.	Α	В	С	P DIN 5480	Code No.	Order No.	(Kg) Weight
30	1-16 ER25	42	4000	1:1	122.5	50	80	W16x0.8	130214-000	CWDA3054802550	3.6
50	3-26 ER40	63	4000	1:1	140.5	65	90	W24x1.25	150213-000	CWDA5054804065	10.5

#### **AXIAL DRILLING AND MILLING HEAD**

軸向鑽銑刀座(0°)





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

D DIN 69880	X Capacity	s	Maximum R.P.M	i	Α	В	С	P DIN 5480	Code No.	Order No.	(Kg) Weight
40	2-20 ER32	38	6000	1:1	109	85	86	W16x0.8	140220-000	CWDA40548032A	4,3

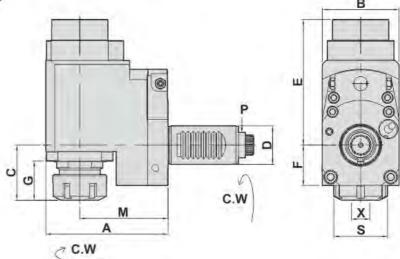




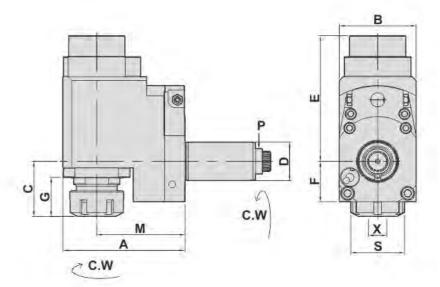
#### RADIAL MILLING AND DRILLING HEAD

OFFSET-後縮型(90°)

MODE: BR RIGHT-HAND



MODE: BL LEFT-HAND



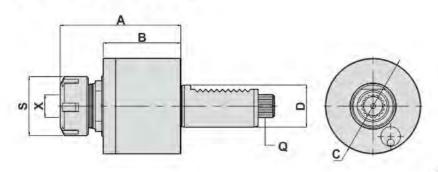
- To be used for collet DIN 6499
- Internal coolant supply:50bar 中心出水
- Collet is not included

D DIN 69880	X Capacity	s	Maximum R.P.M	i	Α	В	С	E	F	G	M	P DIN 5480	Code No.	Order No.	(Kg) Weight
30	1-16 ER25	42	5000	1:1	99	60	44	98	31.5	30.5	72	W16x0.8	230206-000	CWBR3054802572	4.1
140	2-20	2-20 50	5000		100	00	47	400	40	20	00	14/00-00	240206-000	CWBR4054803290	9.7
40	ER32	50	5000	433	128	80	41	130	42	4-7	120	W20x0.8	240226-000	CWBL4054803290	
50	3-26 ER40	3-26 63	5000	1.1	129	86	48.5	122	12	20 5	00	W24v1 25	250206-000	CWBI 5054804090	12.4
		ER40	ER40	ER40	3000	1.1	129	00	40.5	133	42	30.0	90	VVZ4X1.23	250226-000





# AXIAL DRILLING AND MILLING HEAD 軸向鑽銑刀座(0°)





▲Coupling to DIN 5482

Power transmission according to DIN 5482

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

#### DIMENSIONS

D DIN 69880 30	2.4	X acity	<b>S</b>	Maximum R.P.M 6000	1:1	A 101	B 72	<b>C</b>	Q DIN 5482 B15x12	Code No. 130301-000	Order No. DA30548225	(Kg) Weight 2.2
	1-16	ER25										
40	1-16	ER25	42	6000	1:1	108.5	74.5	86	B17x14	140327-000	DA40548225	3.7
40	2-20	ER32	50	6000	1:1	112.5	74.5	86	B17x14	140301-000	DA40548232	3.8
50	3-26	ER40	63	6000	1:1	120	82	96	B20x17	150301-000	DA50548240	5.5
60	10-34	ER50	78	6000	1:1	142.5	88.5	116	B25x22	160301-000	DA60548250	8.9

### **AXIAL TAPPING HEAD**

軸向彈性攻牙刀座(0°)

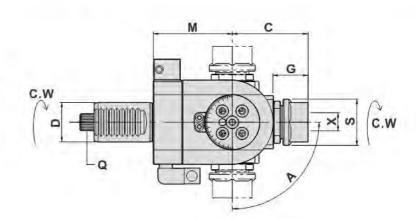
D DIN 69880 30	Сар	X acity	<b>S</b>	Maximum R.P.M 3000	1 1:1	A 108	<b>B</b> 71.5	C 68	Q DIN 5482 B15x12	Code No. 130316-000	Order No. TDA30548216	(Kg) Weight 2.2
	1-10	ER16										
40	1-13	ER20	35	3000	1:1	95.5	55	86	B17x14	140322-000	TDAC40548220	3
50	1-16	ER25	42	3000	1:1	123	81.5	96	B20x17	150316-000	TDA50548225	5.5
60	2-20	ER32	50	3000	1:1	158.5	88.5	116	B25x22	160316-000	TDA60548232	8.9





ANGULAR HEAD





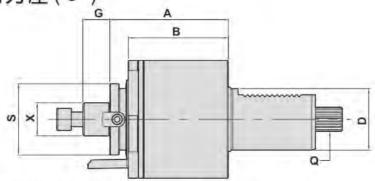
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

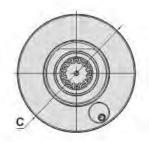
#### DIMENSIONS

D DIN 69880	X Capacity	Maximum R.P.M	s	Α	В	С	E	F	G	M	Q DIN 5482	Code No.	Order No.	(Kg) Weight
30	1-13 ER20	4000	35	±90°	64	59	54	32	27	67	B15x12	130315-000	DA30548220B	2.9
40	1-16 ER25	4000	42	±90°	76	65	65	38	29	70	B17x14	140315-000	DA40548225B	5.1
50	1-16 ER25	4000	42	±90°	90	80	85	45	32	85	B20x17	150315-000	DA50548225B	9.1

## **AXIAL SHELL END MILLING CUTTER**

軸向銑削刀座(0°)





- To be used for cutter arbor according to DIN 6358
- External coolant

D DIN 69880	X Capacity	Maximum R.P.M	s	Α	В	С	G	Q DIN 5482	Code No.	Order No.	(Kg) Weight
30	16	3000	32	85.5	71.5	68	17	B15x12	130306-000	DA30548216C	2.3
40	16	3000	32	69	56	86	17	B17x14	140305-000	DAC40548216C	3
40	22	3000	48	69	56	86	18	B17x14	140306-000	DAC40548222C	3.1
50	22	3000	48	94	81.5	96	18	B20x17	150305-000	DA50548222C	5.5
50	27	3000	60	97.5	81.5	96	20	B20x17	150306-000	DA50548227C	5.7

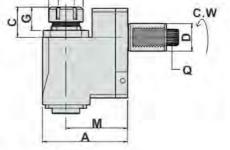


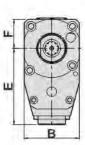


# RADIAL DRILLING AND MILLING HEAD OFFSET c.w5

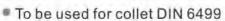
徑向鑽銑刀座-後縮型(90°)

MODE: BL LEFT-HAND



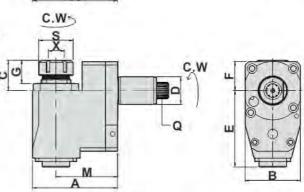


MODE : BR RIGHT-HAND



- External coolant supply
- Collet is not included





D DIN 69880	X Capacity	s	Maximum R.P.M	ŧ	A	В	С	E	F	G	М	Q DIN 5482	Code No.	Order No.	(Kg) Weight
0.0	1-16	10	5000	4.4	00	00		75.5	24.5	00	70	D45-40	230301-000	BR3054822572	0.5
30	ER25	42	5000	1:1	98	60	44	15.5	31.5	30	72	B15x12	230321-000	BL3054822572	3.5
40	2-20		5000		404	00		a a a	70	00	200	B47.44	240301-000	BR4054823290	0.0
40	ER32	50	5000	1:1	124	80	44	111	43	33	90	B17x14	240321-000	BL4054823290	8.2
	3-26	-	F000		400	00		440	40	40	00	D00 47	250301-000	BR5054824090	30
50	ER40	63	5000	1:1	129	86	50	112	42	40	90	B20x17	250321-000	BL5054824090	10
0.0	10-34	70	5000		161	40.	70	400			400	DOE 00	260301-000	BR60548250106	20.1
60	ER50	78	5000	1:1	154	104	76	123	54	53	106	B25x22	260321-000	BL60548250106	16.4

## **RADIAL TAPPING HEAD**

徑向彈性攻牙刀座-後縮型(90°)

D DIN 69880	X Capacity	s	Maximum R.P.M	1	A	В	С	Ε	F	G	M	Q DIN 5482	Code No.	Order No.	(Kg) Weight
00	1-10	00	2000	4.4	00	co		75.5	24.5	00.5	70	D45 40	230305-000	TBR3054821672	2.5
30	ER16	30	3000	1:1	98	60	44	(0.5	31.5	38.5	72	B15x12	230325-000	TBL3054821672	3.5
40	1-13	0.5	2000	4.4	404	00	-0-	440	40	10.5	00	242.44	240305-000	TBR4054822090	0.4
40	ER20	35	3000	1:1	124	80	59.5	110	42	49.5	90	B17x14	240325-000	TBL4054822090	8.4
	1-16	40	2000	4.4	100	00		440	45			D00 47	250305-000	TBR5054822590	10.0
50	ER25	42	3000	1:1	129	86	54	112	45	55	90	B20x17	250325-000	TBL5054822590	10.2
	2-20		2000	2.2	454	404	400	440	- 2			DOT 00	260305-000	TBR60548232106	40.0
60	ER32	50	3000	1:1	154	104	105	118	54	82.5	106	B25x22	260325-000	TBL60548232106	16.6

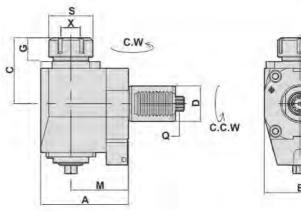




# RADIAL DRILLING AND MILLING HEAD

徑向鑽銑刀座(90°)

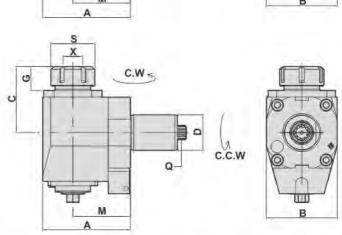
MODE: FL LEFT-HAND



MODE: FR RIGHT-HAND

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





D DIN 69880	X Capacity	s	Maximum R.P.M	Í	A	В	С	G	М	Q DIN 5482	Code No.	Order No.	(Kg) Weight
20	1-16	12	5000	4.4	0.7		75	26	65	B15x12	230341-000	FR3054822565	
30	ER25	42	5000	1:1	97	64	75	20	co	BIOXIZ	230361-000	FL3054822565	4
20	1-16	42	5000	a.a	447		-	200	85	B15x12	230348-000	FR3054822585	4 -
30	ER25	42	5000	1:1	117	64	75	26	93	BIOXIZ	230368-000	FL3054822585	4.7
40	2-20	EO	5000	2.2	00	00	00	29	65	B17x14	240341-000	FR4054823265	
40	ER32	50	5000	1:1	99	80	80	29	65	D17X14	240361-000	FL4054823265	5.9
40	2-20	F0	5000	4.4	440	00	00	20	85	D17-11	240348-000	FR4054823285	0.0
40	ER32	50	5000	1:1	119	80	80	29	00	B17x14	240368-000	FL4054823285	6.9

#### **RADIAL TAPPING HEAD**

徑向彈性攻牙刀座(90°)

D DIN 69880	X Capacity	s	Maximum R.P.M	i	A	В	С	G	M	Q DIN 5482	Code No.	Order No.	(Kg) Weight
30	1-10	30	2000	4.4	07	64	07	37	65	B15x12	230345-000	TFR3054821665	1.1
30	ER16	30	3000	1:1	87	64	87	31	65	DISXIZ	230365-000	TFL3054821665	4.1
20	1-10	30	2000	4.4	447	04	0.7	37	85	B15x12	230350-000	TFR3054821685	4.0
30	ER16	30	3000	1:1	117	64	87	31	00	DISXIZ	230370-000	TFL3054821685	4.8
40	1-13	35	2000	1:1	00	00	0.4	40	CF	B17x14	240345-000	TFR4054822065	
40	ER20	33	3000	171	99	80	94	46	65	D1/X14	240365-000	TFL4054822065	6
40	1-13	35	2000	4.4	440	00	04	46	0.5	B17x14	240350-000	TFR4054822085	-
40	ER20	33	3000	1:1	119	80	94	40	85	D1/X14	240370-000	TFL4054822085	1

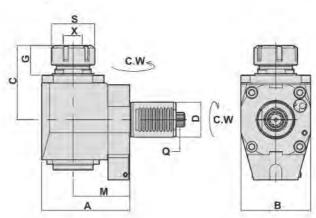


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#### RADIAL DRILLING AND MILLING HEAD

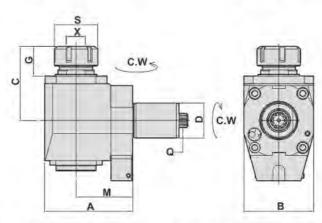
徑向鑽銑刀座(90°)

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	î	A	В	С	G	M	Q DIN 5482	Code No.	Order No.	(Kg) Weight
40	2-20		5000	5.0	V2.	00	0.5	34	0.5	D47.44	240381-000	NFR4054823265	
40	ER32	50	5000	1:1	101	80	85	34	65	B17x14	2403101000	NFL4054823265	6
40	2-20		5000	452		00	0.5		0.5	547.44	240388-000	NFR4054823285	-
40	ER32	50	5000	1:1	121	80	85	34	85	B17x14	2403108000	NFL4054823285	1
	3-26	00	5000			00	440	40	75	D00 47	250388-000	NFR5054824075	0.0
50	ER40	63	5000	1:1	115	88	110	43	75	B20x17	2503108000	NFL5054824075	9.8
00	10-34	70	5000	600	7-6	101	400	F0 F	400	DOF 00	260381-000	NFR60548250106	40
60	ER50	78	5000	4:1	156	104	139	56.5	106	B25x22	2603101000	NFL60548250106	18

#### **RADIAL TAPPING HEAD**

徑向彈性攻牙刀座(90°)

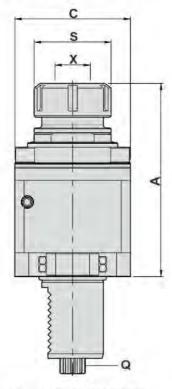
D DIN 69880	X Capacity	s	Maximum R.P.M	1	A	В	С	G	M	Q DIN 5482	Code No.	Order No.	(Kg) Weight
40	1-13	35	2000	4.4	404	00	105	25	c.r	D47.44	240385-000	NTFR4054822065	
40	ER20	35	3000	1:1	101	80	105	25	65	B17x14	2403105000	NTFL4054822065	6.1
40	1-13	25	2000	4.4	404	00	405	25	05	D47-44	240390-000	NTFR4054822085	7.4
40	ER20	35	3000	1:1	121	80	105	25	85	B17x14	2403110000	NTFL4054822085	7.1
50	1-16	40	0000	2.2		00	405	40	7.5	D00 47	250385-000	NTFR5054822575	46
50	ER25	42	3000	1:1	115	88	105	42	75	B20x17	2503105000	NTFL5054822575	10

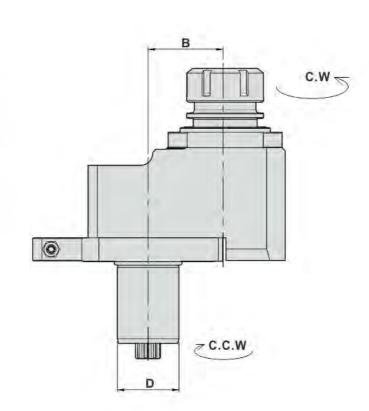




# AXIAL DRILLING AND MILLING HEAD OFFSET

軸向偏心鑽銑刀座(0°)





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

# DIMENSIONS

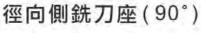
D DIN 69880	X Capacity	s	Maximum R.P.M	1	A	В	С	Q DIN 5482	Code No.	Order No.	(Kg) Weight
30	1-16 ER25	42	4000	1:1	100	29	60	B15x12	130308-000	DA3054822529	2.8
<b>*</b> 30	1-16 ER25	42	8000	1:2	100	29	60	B15x12	130311-000	DA3054822529/1	2.8
30	1-16 ER25	42	4000	1:1	121	50	75	B15x12	130309-000	DA3054822550	6
40	2-20 ER32	50	4000	1:1	125	50	75	B17x14	140308-000	DA4054823250	5
50	3-26 ER40	63	3000	1:1	124	65	86	B20x17	150309-000	DA5054824065	9
60	10-34 ER50	78	3000	1:1	178	65	104	B25x22	160308-000	DA6054825065	17.4
60	10-34 ER50	78	3000	1:1	190	80	104	B25x22	160309-000	DA6054825080	18

\*2倍增速

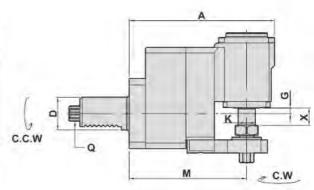




#### RADIAL MILLING HEAD - DISK CUTTER UNITS







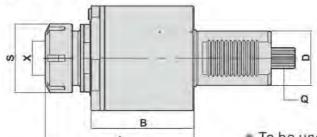
#### DIMENSIONS

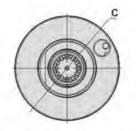
D DIN 69880	X Capacity	Maximum R.P.M	i	A	В	С	E	F	G	Н	K	М	Q DIN 5482	Code No.	Order No.	(Kg) Weight
0.0	40	2000											515.10	230307-000	BR30548216C/3	
30	16	3000	3:1	133	64	45	77.5	49	5	65	16	107.5	B15x12	230327-000	BL30548216C/3	5.8
0.0	40	0000										407.5	245.40	230309-000	BR30548225.4C/3	
30	16	3000	3:1	133	64	45	77.5	49	5	65	25.4	107.5	B15x12	230329-000	BL30548225.4C/3	6.1
40	40	2000	0.4	400	70	10	77.	7.	-	05	40	440.5	D47 44	240307-000	BR40548216C/3	
40	16	3000	3:1	136	10	45	77.5	15	5	65	16	110.5	B17x14	240327-000	BL40548216C/3	6.4
40	40	2000	2.4	420	70	AF	77 5	75	_	cr	25.4	400 F	D47.44	240309-000	BR40548225.4C/3	6.7
40	16	3000	3;1	136	70	45	77.5	75	5	05	25.4	100.5	B17x14	240329-000	BL40548225.4C/3	6.7

\* i = 3倍減速

## **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
- Collet is not included

D DIN 69880	X Capacity	s	Maximum R.P.M	į	Ä	В	С	Q DIN 5482	Code No.	Order No.	(Kg) Weight
30	1-16 ER25	42	6000	1:1	101.5	72.5	68	B15x12	130307-000	CWDA30548225	2.3
40	2-20 ER32	50	6000	1:1	128	84	86	B17x14	140307-000	CWDA40548232	4.3
50	3-26 ER40	63	6000	1:1	136.5	94.5	96	B20x17	150307-000	CWDA50548240	6.4
60	10-34 ER50	78	6000	1:1	143.8	89.8	116	B25x22	160307-000	CWDA60548250	9

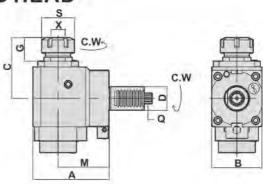


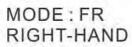


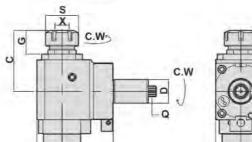
RADIAL MILLING AND DRILLING HEAD FORWARD

徑向鑽銑刀座(90°)

MODE: FL LEFT-HAND







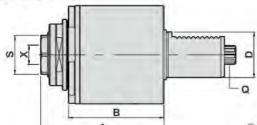
- To be used for collet DIN 6499
- Internal coolant supply:50bar 中心出水
- Collet is not included

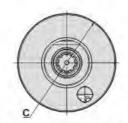
#### **DIMENSIONS**

D DIN 69880	X Capacity	s	Maximum R.P.M	1	A	В	С	G	M	Q DIN 5482	Code No.	Order No.	(Kg) Weight
00	1-16		5000		0.7		70	00	65	D45 40	230386-000	CWNFR3054822565	
30	ER25	42	5000	1:1	97	64	79	30	65	B15x12	2303106000	CWNFL3054822565	4.3
20	1-16	40	5000	4.4	447	~4	70	20	0.5	D45 40	230394-000	CWNFR3054822585	6
30	ER25	42	5000	1:1	117	64	79	30	85	B15x12	2303107000	CWNFL3054822585	5
40	2-20	50	5000	1:1	103	76	90	33	65	D47.44	240386-000	CWNFR4054823265	6.1
40	ER32	50	5000	154	103	10	90	33	05	B17x14	2403106000	CWNFL4054823265	0.1
50	3-26	63	5000	1:1	123	88	116	49	75	B20x17	250386-000	CWNFR5054824075	12.1
30	ER40	03	3000	4.3	123	00	110	49	75	DZUX17	2503106000	CWNFL5054824075	12.1

#### **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

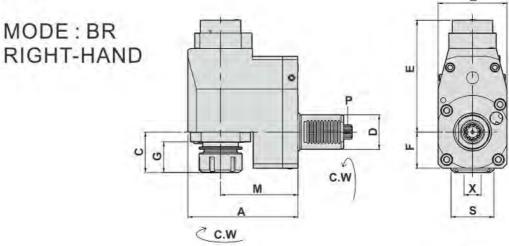
D DIN 69880	X Capacity	s	Maximum R.P.M	1	Α	В	С	Q DIN 5482	Code No.	Order No.	(Kg) Weight
40	1-16 ER25	30	6000	1:1	106	84	86	B17x14	140325-000	CWDA40548225A	4.1
40	2-20	38	6000	1:1	108	84	86	B17x14	140320-000	CWDA40548232A	4

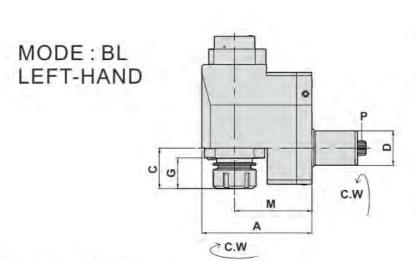


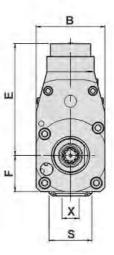


# RADIAL MILLING AND DRILLING HEAD OFFSET

後縮型(90°)







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

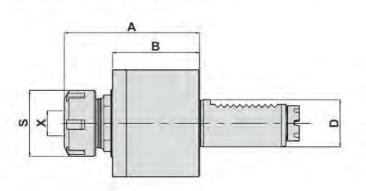
D DIN 69880	X Capacity	s	Maximum R.P.M	ì	A	В	С	E	F	G	M	Q DIN 5482	Code No.	Order No.	(Kg) Weight
40	2-20	-0	5000	4.4	400	00	47	400	40	25.5	00	B17x14	240306-000	CWBR4054823290	
40	ER25	50	5000	1:1	128	80	47	130	42	35.5	90	B1/X14	240326-000	CWBL4054823290	9
50	3-26	00	5000	4.4	400	00	40.5	400	40	20.5	00	D00-47	250306-000	CWBR5054824090	40.4
50	ER32	63	5000	1:1	129	86	48.5	133	42	38.5	90	B20x17	250326-000	CWBL5054824090	10.4
0.0	10-34	70	E000		45.	201	74.5	450		40	400	205.00	260306-000	CWBR60548250106	47.0
60	ER50	78	5000	1:1	154	104	71.5	152	54	49	106	B25x22	260326-000	CWBL60548250106	17.2

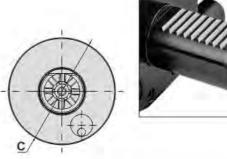




#### **AXIAL DRILLING AND MILLING HEAD**

軸向鑽銑刀座(0°)





- 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

#### DIMENSIONS

D DIN 69880	- F- C	X acity	s	Maximum R.P.M	i	A	В	С	Code No.	Order No.	(Kg) Weight
20	1-10	ER16	30	6000	1:1	78	48	58	120401-000	DA20MT16	1.1
30	1-16	ER25	42	6000	1:1	89	57	68	130401-000	DAC30MT25	1.9
40	2-20	ER32	50	6000	1:1	92.5	56	86	140402-000	DAC40MT32	3.1
40	2-20	ER32	50	6000	1:1	112	74.5	86	140401-000	DA40MT32	3.8
50	3-26	ER40	63	6000	1:1	124	81.5	96	150401-000	DA50MT40	5.7
60	3-26	ER40	63	6000	1:1	133	88.3	116	160402-000	DA60MT40	9.1
60	10-34	ER50	78	6000	1:1	140	88.3	116	160401-000	DA60MT50	9.1

#### **AXIAL TAPPING HEAD**

軸向彈性攻牙刀座(0°)

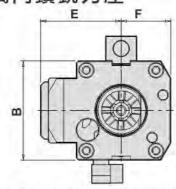
D DIN 69880	Сар	X acity	s	Maximum R.P.M	F	A	В	С	Code No.	Order No.	(Kg) Weight
30	1-10	ER16	30	3000	1:1	91.5	55	68	130416-000	TDAC30MT16	1.9
40	1-13	ER20	35	3000	1:1	95.5	55	86	140422-000	TDAC40MT20	3.1
50	1-16	ER25	42	3000	1:1	123	81.5	96	150416-000	TDA50MT25	5.7
60	2-20	ER32	50	3000	1:1	158.5	88.5	116	160416-000	TDA60MT32	9.1

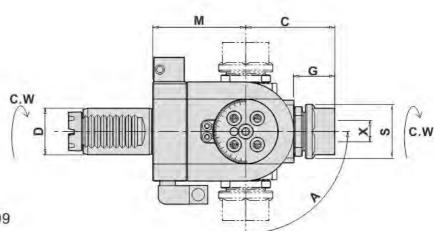




#### **ANGULAR HEAD**

萬向鑽銑刀座



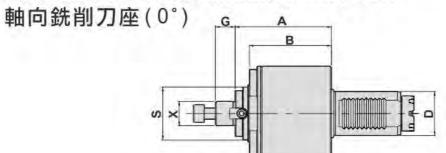


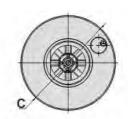
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

#### DIMENSIONS

D DIN 69880	X Capacity	Maximum R.P.M	s	A	В	С	E	F	G	M	Code No.	Order No.	(Kg) Weight
30	1-13 ER20	4000	35	±90°	64	59	54	32	27	62	130415-000	DA30MT20B	3
40	1-16 ER25	4000	42	±90°	76	65	65	38	29	70	140415-000	DA40MT25B	5.2
50	1-16 ER25	4000	42	±90°	90	80	85	45	32	85	150415-000	DA50MT25B	9.2

# **AXIAL SHELL END MILLING CUTTER**





- To be used for cutter arbor according to DIN 6358
- External coolant

D DIN 69880	X DIN 6358	Maximum R.P.M	s	Α	В	С	G	Code No.	Order No.	(Kg) Weight
30	16	3000	32	67	55	68	17	130405-000	DAC30MT16C	1.8
40	16	3000	32	67	55	86	17	140405-000	DAC40MT16C	3
40	22	3000	48	68.5	55	86	18	140406-000	DAC40MT22C	3.2
<b>*</b> 40	30	3000	58	94	73.5	86	19	140421-000	DA40MT30C	4.1
50	22	3000	48	94	81.5	96	18	150405-000	DA50MT22C	5.6
50	27	3000	60	97.5	81.5	96	20	150406-000	DA50MT27C	5.8







# RADIAL DRILLING AND MILLING HEAD

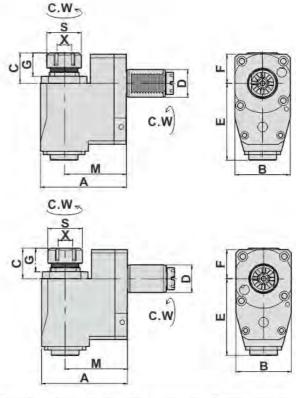
**OFFSET** 

徑向鑽銑刀座-後縮型(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	В	С	E	F	G	M	Code No.	Order No.	(Kg) Weight
20	1-10	-00	5000	5.2	00		25	70	0.7	-00	00	220401-000	BR20MT1660	0.0
20	ER16	30	5000	1:1	83	50	35	70	27	29	60	220421-000	BL20MT1660	2.2
20	1-16	40	5000	4.4	00	-00	40	76	00	00	70	230401-000	BR30MT2572	0.5
30	ER25	42	5000	1:1	98	60	42	76	32	30	72	230421-000	BL30MT2572	3.5
10	2-20	50	5000	4.4	404	80	44	440	42	25	90	240401-000	BR40MT3290	8.2
40	ER32	50	5000	1;1	124	80	44	110	42	35	90	240421-000	BL40MT3290	8.2
50	3-26	00	5000		400	00	40	440	45	40	00	250401-000	BR50MT4090	40
50	ER40	63	5000	1:1	129	86	49	112	45	40	90	250421-000	BL50MT4090	10
	10-34	70	5000	4.4	151	404	70	400		e.	400	260401-000	BR60MT50106	40.4
60	ER50	78	5000	1:1	154	104	76	123	54	54	106	260421-000	BL60MT50106	16.4
60	10-34 ER50	78	5000	1:1	183	104	77	123	54	54	135	260428-000	BL60MT50135	19.5

#### **RADIAL TAPPING HEAD**

徑向彈性攻牙刀座-後縮型(90°)

D DIN 69880	X Capacity	s	Maximum R.P.M	1	A	В	С	E	F	G	М	Code No.	Order No.	(Kg) Weight
20	1-10	20	2000		00			70	20		70	230405-000	TBR30MT1672	2.5
30	ER16	30	3000	1:1	98	60	51	76	32	38.5	12	230425-000	TBL30MT1672	3.5
46	1-13	0.5	2000	4.4	404	00		440	40			240405-000	TBR40MT2090	0.4
40	ER20	35	3000	1:1	124	80	59.5	110	42	49.5	90	240425-000	TBL40MT2090	8.4
50	2-16		0000	4.4	400	00	-	440	16	00	00	250405-000	TBR50MT2590	40.0
50	ER25	42	3000	1:1	129	86	54	112	45	36	90	250425-000	TBL50MT2590	10.2
0.0	2-20		2000	4.4	1-1	404	305		- 4			260405-000	TBR60MT32106	40.0
60	ER32	50	3000	1:1	154	104	105	118	54	82.5	106	260425-000	TBL60MT32106	16.6



C.C.W

#### RADIAL DRILLING AND MILLING HEAD

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

# C.C.W DIMENSIONS

D DIN 69880	X Capacity	s	Maximum R.P.M	i	A	В	С	G	М	Code No.	Order No.	(Kg) Weight
00	1-10		5000	1.7		26		22	200	220441-000	FR20MT1645	1.7
20	ER16	30	5000	1:1	67	50	66	27	45	220461-000	FL20MT1645	1.7
	1-10	00	F000	2.5					70	220448-000	FR20MT1670	2.3
20	ER16	30	5000	1:1	92	50	66	27	70	220468-000	FL20MT1670	2,3
144	1-16	150		4.7	1000	100	26.1	15.47	GL.	230441-000	FR30MT2565	4
30	ER25	42	5000	1:1	97	64	75	26	65	230461-000	FL30MT2565	4
0.0	1-16	7,001	1.000	-	HOW	12.7	200	120	0.0	230448-000	FR30MT2585	4.7
30	ER25	42	5000	1:1	117	64	75	26	85	230468-000	FL30MT2585	4.1
Val.	2-20	LU.	** ALCON. ** 1	100	102.57	2.55	255	3.5	Tod"	240441-000	FR40MT3265	
40	ER32	50	5000	1:1	99	80	80	29	65	240461-000	FL40MT3265	6
12	2-20	العالما	- Coolean	20	17.72	23	12720	122	100	240448-000	FR40MT3285	7
40	ER32	50	5000	1:1	119	80	80	29	85	240468-000	FL40MT3285	7
Sa(Ch)	2-20	cellia	- ASSESS -	-3.00	57.4770	SA.	~2.T.	Taran I	3,00	240449-000	FR40MT32100	7.0
40	ER32	50	5000	1:1	134	80	80	29	100	240469-000	FL40MT32100	7.6
Tea.	2-20	11.3.5	W 1-62-52F	1-10-	Letters	50	0.344	200	2000	240452-000	FR40MT32110	
40	ER32	50	5000	1:1	144	80	80	29	110	240477-000	FL40MT32110	8.1
501	2-20	12.0	Total Co.		100	1.5	1,2	L'a	DE.	240460-000	FR40MT32120	
40	ER32	50	5000	1:1	154	80	80	29	120	240480-000	FL40MT32120	8.3

#### RADIAL TAPPING HEAD

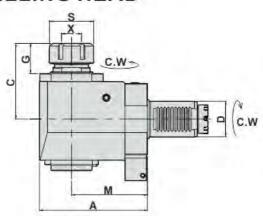
徑向彈性攻牙刀座(90°)

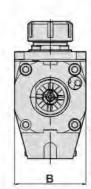
D DIN 69880	X Capacity	s	Maximum R.P.M	i	Α	В	С	G	M	Code No.	Order No.	(Kg) Weight
20	1-10	30	2000	4.4	0.7		0.7	27	c.	230445-000	TFR30MT1665	
30	ER16	30	3000	1:1	97	64	87	37	65	230465-000	TFL30MT1665	4.1
20	1-10	20	2000	2.2	447		0.7	2.7	0.5	230450-000	TFR30MT1685	4.0
30	ER16	30	3000	1:1	117	64	87	37	85	230470-000	TFL30MT1685	4.8
40	1-13	0.5	2000	4.4	99	80	94	46	0.5	240445-000	TFR40MT2065	
40	ER20	35	3000	1:1	99	80	94	46	65	240465-000	TFL40MT2065	6.1
40	1-13	35	2000	4.4	***	00	0.4	40	85	240450-000	TFR40MT2085	- 4
40	ER20	35	3000	1:1	119	80	94	46	85	240470-000	TFL40MT2085	7.1
50	1-16	42	2000	did.	445	00	400	40	75	250450-000	TFR50MT2575	0.0
50	ER25	42	3000	1:1	115	88	103	42	75	250465-000	#50-000 TFR30MT1685 #70-000 TFL30MT1685 #45-000 TFR40MT2065 #65-000 TFL40MT2065 #50-000 TFR40MT2085 #70-000 TFL40MT2085 #70-000 TFR50MT2575	8.8

#### RADIAL DRILLING AND MILLING HEAD

徑向鑽銑刀座(90°)

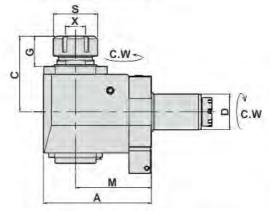
MODE: FL LEFT-HAND





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	1	A	В	С	G	M	Code No.	Order No.	(Kg) Weight
40	2-20		5000	al a	404	00	85	24	0.5	240481-000	NFR40MT3265	
40	ER32	50	5000	1:1	101	80	85	34	65	2404101000	NFL40MT3265	6
40	2-20		5000	2.2	404	200	0.5	0.4	0.5	240488-000	NFR40MT3285	
40	ER32	50	5000	1:1	121	80	85	34	85	2404108000	NFL40MT3285	1
40	2-20	50	5000	la da	400	00	0.5	0.4	400	240489-000	NFR40MT32100	7.0
40	ER32	50	5000	1:1	136	80	85	34	100	2404109000	NFL40MT32100	7.6
50	3-26	63	5000	4.4	445	00	440	40	75	250481-000	NFR50MT4075	0.0
50	ER40	63	5000	1:1	115	88	110	43	75	2504101000	NFL50MT4075	8.3
66	10-34	70	5000	2.7	450		300	50.5	400	260481-000	NFR60MT50106	100
60	ER50	78	5000	1:1	156	104	139	56.5	106	2604101000	NFL60MT50106	18.2

#### RADIAL TAPPING HEAD

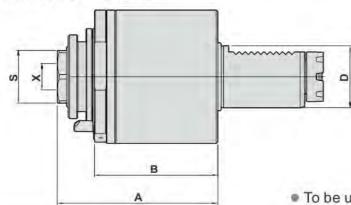
徑向彈性攻牙刀座(90°)

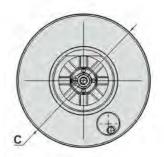
D DIN 69880	X Capacity	S	Maximum R.P.M	i	А	В	С	G	М	Code No.	Order No.	(Kg) Weight
40	1-13	20	2000	1.1	404	00	405	0.5	0.5	240485-000	NTFR40MT2065	0.4
40	ER20	35	3000	1:1	101	80	105	25	65	2404105000	NTFL40MT2065	6.1
40	1-13	25	2000	404	404	00	405	0.5	0.5	240490-000	NTFR40MT2085	9.1
40	ER20	35	3000	1:1	121	80	105	25	85	2404110000	NTFL40MT2085	7.1
50	1-16		0000	4.4		00	400	40	7.	250490-000	NTFR50MT2575	
30	ER25	42	3000	1:1	115	88	103	42	75	2504110000	NTFL50MT2575	8.4



#### AXIAL DRILLING AND MILLING HEAD

軸向鑽銑刀座(0°)



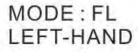


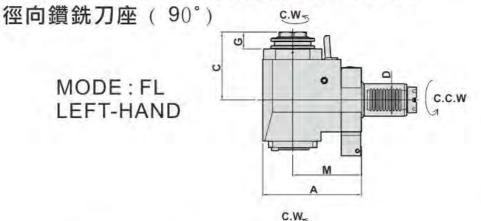
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

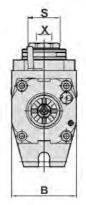
#### **DIMENSIONS**

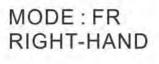
D DIN 69880	X Capacity	s	Maximum R.P.M	i	А	В	С	Code No.	Order No.	(Kg) Weight
40	2-20 ER32	38	6000	1:1	98	80	86	140403-000	DAC40-MT-ER32A	4.1

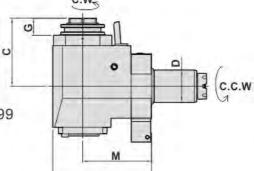
## RADIAL DRILLING AND MILLING HEAD













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

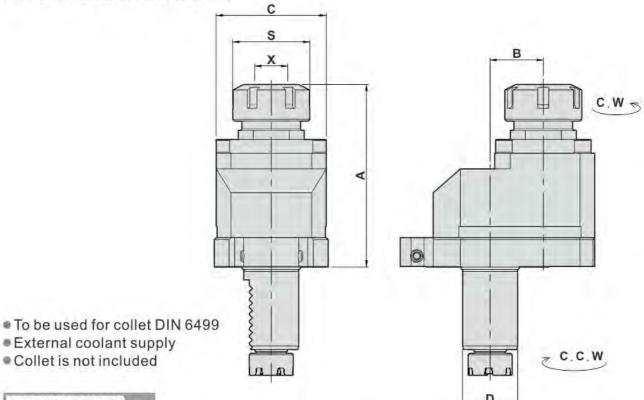
D DIN 69880	X Capacity	s	Maximum R.P.M	1	A	В	С	G	М	Code No.	Order No.	(Kg) Weight
40	2-20	00	5000	202	400	00		0.4	0.5	240453-000	FR40MT32A85	7.0
40	ER32	38	5000	1:1	122	80	84	21	85	240473-000	FL40MT32A85	7.3



#### AXIAL DRILLING AND MILLING HEAD

**OFFSET** 

軸向偏心鑽銑刀座(0°)



# DIMENSIONS

External coolant supply

Collet is not included

D DIN 69880	X Capacity	s	Maximum R.P.M	i	A	В	С	Code No.	Order No.	(Kg) Weigh
20	1-10 ER16	30	4000	1:1	93.5	29	50	120408-000	DA20MT1629	1.8
30	1-16 ER25	42	4000	1:1	100	29	62	130408-000	DA30MT2529	2.7
<b>*</b> 30	1-16 ER25	42	8000	1:2	100	29	62	130411-000	DA30MT2529/1	2.7
40	2-20 ER32	50	4000	1:1	125	50	75	140408-000	DA40MT3250	6
40	2-20 ER32	50	4000	1:1	122	65	86	140409-000	DA40MT3265	8
50	10-34 ER50	63	3000	1:1	124	65	86	150408-000	DA50MT4065	8.6
60	10-34 ER50	78	3000	1:1	178	65	104	160408-000	DA60MT5065	17.4
60	10-34 ER50	78	3000	1:1	190	80	104	160409-000	DA60MT5080	18

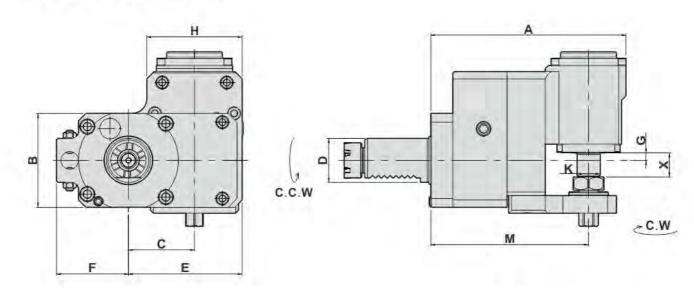
★2倍增速





#### **RADIAL MILLING HEAD**

DISK CUTTER UNITS 徑向側銑刀座(90°)



# DIMENSIONS

D DIN 69880	X Capacity	Maximum R.P.M	i	A	В	С	E	F	G	н	ĸ	M	Code No.	Order No.	(Kg) Weight
0.0	16	3000	3:1	133	64	15	77.5	49	5	65	16	108	230407-000	BR30MT16C/3	5.8
30	16	3000	3.1	133	04	45	11.5	49	5	00	10	100	230427-000	BL30MT16C/3	5.6
20	16	3000	3:1 133 64 45 77.5 49 5 65 2	25.4	100	230409-000	BR30MT25.4C/3	6.1							
30	16	3000	3.1	133	04	45	11.5	49	5.	65	20.4	100	230429-000	BL30MT25.4C/3	0.1
40	16	3000	3:1	136	70	AE	77.5	75	5	65	16	111	240407-000	BR40MT16C/3	6.4
40	10	3000	3.1	130	70	45	11.5	75	5	65	16 111	ant.	240427-000	BL40MT16C/3	6.4
40	10	2000	2.4	120	70	15	77 5	75	5	e E	65 25.4 111	240409-000	BR40MT25.4C/3	67	
40	16	3000	3:1	136	10	45	77.5	13	0	65		240429-000	BL40MT25.4C/3	6.7	

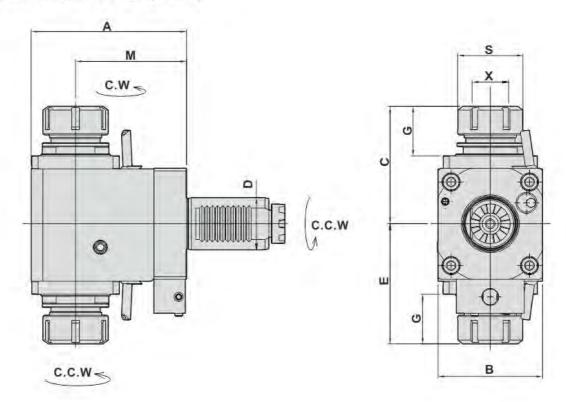
★i=3倍減速





# RADIAL DRILLING AND MILLING HEAD DOUBLE HEAD

徑向雙頭鑽銑刀座(90°)



- 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	В	С	E	G	M	Code No.	Order No.	(Kg) Weight
30	1-16 ER25	42	4000	1:1	112	64	72	72	30	85	230475-000	FL30MT2585D	4.9
40	2-20 ER32	50	4000	1:1	119	80	90	92	38	85	240475-000	FL40MT3285D	7.5
40	2-20 ER32	50	4000	1:1	134	80	90	92	38	100	240476-000	FL40MT32100D	8.2
40	2-20 ER32	50	4000	1:1	154	80	90	92	38	120	24046A-000	FL40MT32120D	9.1



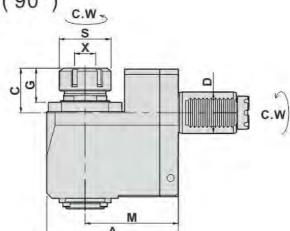


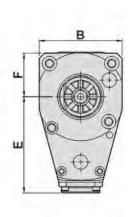
#### RADIAL DRILLING AND MILLING HEAD

**OFFSET** 

徑向鑽銑刀座-後縮型(90°)<sub>c.w</sub>、

MODE: BL LEFT-HAND

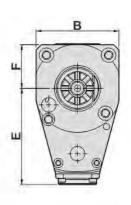




MODE: BR RIGHT-HAND

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

# C.W-



#### DIMENSIONS

D DIN 69880	X Capacity	s	Maximum R.P.M	i	А	В	С	E	F	G	М	Code No.	Order No.	(Kg) Weight
4.0	2-20		5000				19					240403-000	SHBR40MT3290	
40	ER32	50	5000	1:1	127	80	4/	92.8	42	3/	90	240423-000	SHBL40MT3290 SHBL40MT3290	6.7

#### **RADIAL TAPPING HEAD**

徑向彈性攻牙刀座-後縮型(90°)

D DIN 69880	X Capacity	s	Maximum R.P.M	1	A	В	С	E	F	G	M	Code No.	Order No.	(Kg) Weight
205	1-13		0000	20.4								240408-000	SHTBR40MT2090	
40	ER20	35	3000	131	127	80	62	92.8	42	49.5	90	240428-000	SHTBL40MT2090	6.9

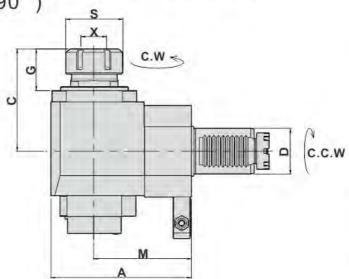


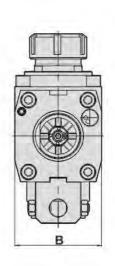


#### RADIAL DRILLING AND MILLING HEAD

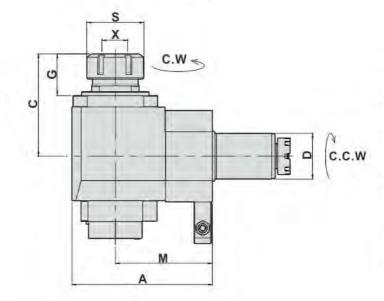
徑向鑽銑刀座(90°)

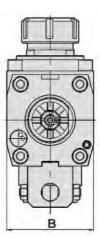
MODE: FL LEFT-HAND





MODE: FR RIGHT-HAND





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

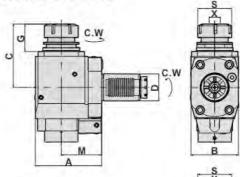
D DIN 69880	X Capacity	s	Maximum R.P.M	Ĭ	A	В	С	G	М	Code No.	Order No.	(Kg) Weight
	2-20									240446-000	CWFR40MT3265	
40	ER32	50	5000	1:1	103	76	89.5	36.5	65	240466-000	CWFL40MT3265	6.2
40	2-20		5000	4.4	****	70	00.5	20.5	0.5	240454-000	CWFR40MT3285	0.0
40	ER32	50	5000	1:1	123	76	89.5	36.5	85	240474-000	CWFL40MT3285	6.8
40	2-20		5000	4.4	400	70	00.5	20.5	400	240458-000	CWFR40MT32100	7.0
40	ER32	50	5000	1:1	138	76	89.5	36.5	100	240478-000	CWFL40MT32100	7.8



RADIAL MILLING AND DRILLING HEAD

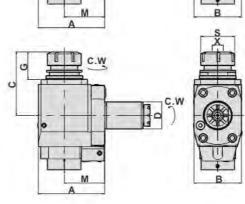
徑向鑽銑刀座(90°)

MODE: FL LEFT-HAND



MODE: FR RIGHT-HAND

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



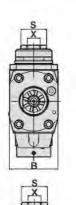
#### DIMENSIONS

D DIN 69880	X Capacity	s	Maximum R.P.M	i	A	В	С	G	М	Code No.	Order No.	(Kg) Weight
	3-26	00	5000	4.4	400	00	440	C4	75	250486-000	CWNFR50MT4075	40.0
50	ER40	63	5000	1:1	123	88	118	51	75	2504106000	CWNFL50MT4075	12.3

#### RADIAL MILLING AND DRILLING HEAD

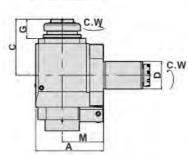
徑向鑽銑刀座(90°)

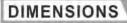
MODE: FL LEFT-HAND C.W C.W



MODE: FR RIGHT-HAND

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



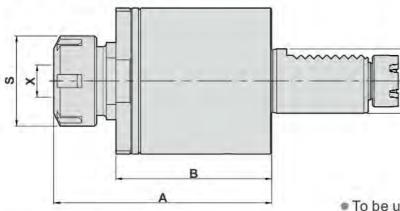


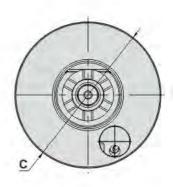
D DIN 69880	X Capacity	s	Maximum R.P.M	î	А	В	С	G	М	Code No.	Order No.	(Kg) Weight
	3-26	47	5000	9.4	400	00	400	25	75	250494-000	CWNFR50MT40A75	40
50	ER40	47	5000	9:1	123	88	102	35	75	2504114000	CWNFL50MT40A75	12



#### **AXIAL MILLING AND DRILLING HEAD**

軸向鑽銑刀座(0°)





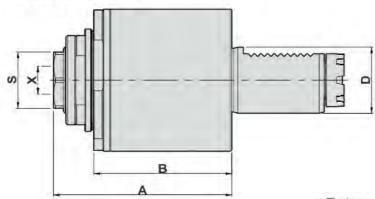
- To be used for collet DIN 6499
- Internal coolant supply:15bar 中心出水
- Collet is not included

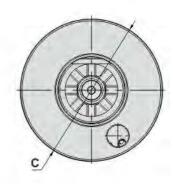
#### DIMENSIONS

D DIN 69880	X Capacity	s	Maximum R.P.M	1	Α	В	С	Code No.	Order No.	(Kg) Weight
30	1-16 ER25	42	6000	1:1	101.5	72.5	68	130407-000	CWDA30MT25	2.4
40	2-20 ER32	50	6000	1:1	122	83.6	86	140407-000	CWDA40MT32	4.3
50	3-26 ER40	63	6000	1:1	134	94.5	96	150407-000	CWDA50MT40	6.4
60	10-34 ER50	78	6000	1:1	143	90	116	160407-000	CWDA60MT50	9.2

#### **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
- Collet is not included

D DIN 69880	X Capacity	s	Maximum R.P.M	Ĭ	A	В	С	Code No.	Order No.	(Kg) Weight
40	2-20 ER32	38	6000	1:1	108	84	86	140420-000	CWDA40MT32A	4.1
50	3-26 ER40	47	6000	1:1	120.5	94.5	96	150420-000	CWDA50MT40A	5.8

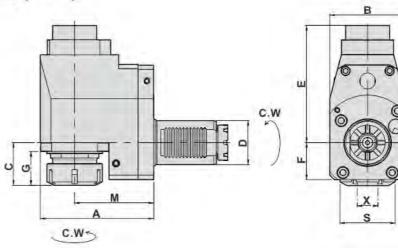




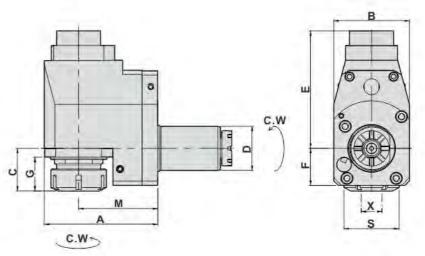
**OFFSET** 

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
- Collet is not included

D DIN 69880	X Capacity	s	į	Maximum R.P.M	A	В	С	E	F	G	M	Code No.	Order No.	(Kg) Weight
30	1-16 ER25	42	1:1	5000	95.5	60	43	98	31.5	29.5	72	230406-000	CWBR30MT2572	4.2
40	2-20	50	1:1	5000	128	80	47	120	42	25.5	00	240406-000	CWBR40MT3290	0.4
40	ER32	50	153	5000	128	80	47	130	42	35.5	90	240426-000	CWBL40MT3290	9.1
50	3-26 ER40	63	1:1	5000	129	86	48.5	133	42	38.5	90	250406-000	CWBR50MT4090	10.6
00	10-34	78	1:1	5000	4-4	404	74.5	450			400	260406-000	CWBR60MT50106	47.4
60	ER50	18	13.1	5000	154	104	71.5	152	54	50	106	260426-000	CWBL60MT50106	17.4

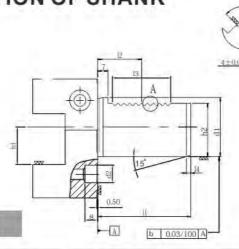


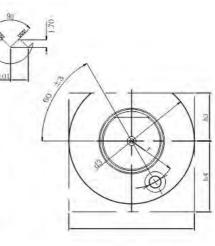


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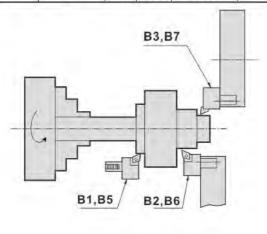
**DIN 69880** 

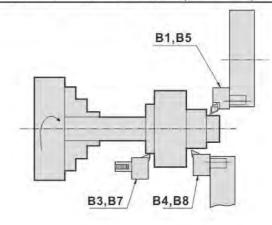
# VDI DIMENSIONAL SPECIFICATION OF SHANK

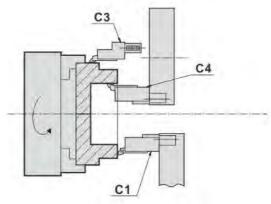


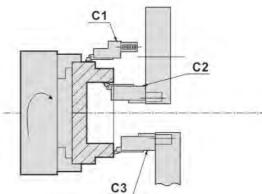


d1 h6	11 ±0.3	d	2	d3	h1 max	h2 ±0.1	12 ±0.05	13 min	14 +1	t 0.02
20	40	10	Н6	50	16	18	21.7	24	2	18
30	55	14	Н9	68	20	27	29.7	40	2	25
40	63	14	Н9	83	25	36	29.7	40	3	32
50	78	16	Н9	98	32	45	35.7	48	3	37
60	94	16	Н9	123	32	55	43.7	56	4	48







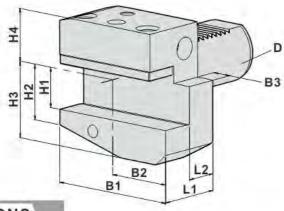


F-A



#### B1 B2

#### **DIN 69880 STATIC HOLDER**

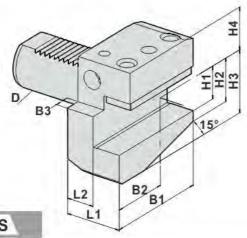


**B1** 

- Right-hand
- Short
- External Coolant Supply

# DIMENSIONS

D	B1	B2	В3	H1	Н2	НЗ	H4	L1	L2	Code No.	Order No.	(Kg) Weight
20	ee.	20	7	5/8" (inch)	19	20	25	20	16	4D1501-000	B1-20x5/8"	0.6
20	55	30	1	16 (mm)	19	30	25	30	10	404501-000	B1-20x16	0.0
20	70	25	10	3/4" (inch)	200	38	20	40	22	4E1501-000	B1-30x3/4"	4.0
30	70	35	10	20 (mm)	26	30	28	40	22	405501-000	B1-30x20	1.3
40	0.5	40 F	40 E	1" (inch)	nr.	40	20 5	44	22	4F1501-000	B1-40x1"	10.0
40	85	42.5	12.5	25 (mm)	35	48	32.5	44	22	406501-000	B1-40x25	2.2
FA	400	ro	40	1-1/4" (inch)	42	co	25	ce	20	4G1501-000	B1-50x1-1/4"	12.3
50	100	50	16	32 (mm)	42	60	35	55	30	407501-000	B1-50x32	3.9
00	100	00.5	16	1-1/4" (inch)	40	00.5	10.5	00	30	4G1513-000	B1-60x1-1/4"	15
60	60 125 62.	02.5	10	32 (mm)	46	62.5	42.5	60	30	407513-000	B1-60x32	6

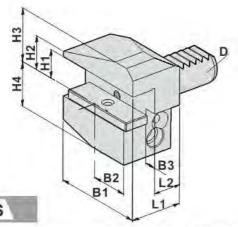


# B2

- Left-hand
- Short
- External Coolant Supply

D	В1	B2	В3	H1	Н2	НЗ	H4	L1	L2	Code No.	Order No.	(Kg) Weight
20	55	20	7	5/8" (inch)	19	30	25	20	16	5D1501-000	B2-20x5/8"	0.0
20	55	30	1	16 (mm)	19	30	25	30	10	504501-000	B2-20x16	0.6
20	70	35	40	3/4" (inch)	26	20	28	40	22	5E1501-000	B2-30x3/4"	4.0
30	70	30	10	20 (mm)	20	38	20	40	22	505501-000	B2-30x20	1.3
20	70	35	10	3/4" (inch)	26	38	28	100	82	5E1507-000	B2-30-F3/4"-100L	0.4
30	70	33	10	20 (mm)	20	30	20	100	02	505507-000	B2-30-F20-100L	3.1
10	85	42.5	10 E	1" (inch)	35	10	22 E	44	22	5F1501-000	B2-40x1"	2.0
40	00	42.5	12.5	25 (mm)	33	48	32.5	44	22	506501-000	B2-40x25	2.2
EΩ	100	50	40	1-1/4" (inch)	42	60	35	55	30	5G1501-000	B2-50x1-1/4"	20
50	100	50	16	32 (mm)	42	60	35	55	30	507501-000	B2-50x32	3.9
co	125	62.5	16	1-1/4" (inch)	46	62.5	42.5	60	30	5G1507-000	B2-60x1-1/4"	
60	125	62.5	10	32 (mm)	46	62.5	42.5	00	30	507507-000	B2-60x32	6



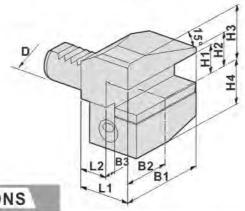


**B**3

- Right-hand
- Short
- External Coolant Supply

**DIMENSIONS** 

D	В1	B2	В3	Н1	H2	НЗ	Н4	L1	L2	Code No.	Order No.	(Kg) Weight
20	55	30	7	5/8" (inch) 16 (mm)	19	30	25	30	16	4D1502-000 404502-000	B3-20x5/8" B3-20x16	0.6
30	70	35	10	3/4" (inch) 20 (mm)	22	38	35	40	22	4E1502-000 405502-000	B3-30x3/4" B3-30x20	1.3
30	85	30	12.5	1" (inch) 25 (mm)	31.5	47.5	35.5	45	23	4F1515-000 406515-000	B3-30xC1" B3-30xC25	2
40	85	42.5	12.5	1" (inch) 25 (mm)	30	48	42.5	44	22	4F1502-000 406502-000	B3-40x1" B3-40x25	2.2
50	100	50	16	1-1/4" (inch) 32 (mm)	35	60	50	55	30	4G1502-000 407502-000	B3-50x1-1/4" B3-50x32	3.9
60	125	62.5	16	1-1/4" (inch) 32 (mm)	42.5	62.5	62.5	60	30	4G1514-000 407514-000	B3-60x1-1/4" B3-60x32	6
60	135	55	21	32 (mm)	42.5	62.5	62.5	140	110	407526-000	B3-60x32-140L	16.5



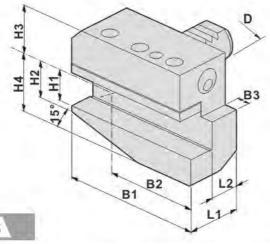
**B4** 

- Left-hand
- Short
- External Coolant Supply

D	В1	B2	В3	H1	H2	нз	Н4	L1	L2	Code No.	Order No.	(Kg) Weight
20	EE	20	7	5/8" (inch)	19	20	25	20	16	5D1502-000	B4-20x5/8"	0.0
20	55	30	-	16 (mm)	19	30	25	30	10	504502-000	B4-20x16	0.6
20	70	0.5	40	3/4" (inch)	22	38	0.5	40	22	5E1502-000	B4-30x3/4"	10.25
30	70	35	10	20 (mm)	22	38	35	40	22	505502-000	B4-30x20	1.3
40	or	10.5	40 F	1" (inch)	20	40	10.5	44	22	5F1502-000	B4-40x1"	0.0
40	85	42.5	12.5	25 (mm)	30	48	42.5	44	22	506502-000	B4-40x25	2.2
40	OF	10.5	105	1" (inch)	20	48	10 E	55	30	5F1508-000	B4-40-F1"-55L	0.0
40	85	42.5	12.5	25 (mm)	30	48	42.5	55	30	506508-000	B4-40-F25-55L	2.8
ro.	400	50	16	1-1/4" (inch)	0.5	ca	50	rr.	20	5G1502-000	B4-50x1-1/4"	0.0
50	100	50	16	32 (mm)	35	60	50	55	30	507502-000	B4-50x32	3.9
60	105	CO 5	40	1-1/4" (inch)	10.5	PO F	COF	00	30	5G1508-000	B4-60x1-1/4"	
OU	125	125   62.5   16	16	32 (mm)	42.5	62.5	62.5	60	30	507508-000	B4-60x32	6



# **DIN 69880 STATIC HOLDER**

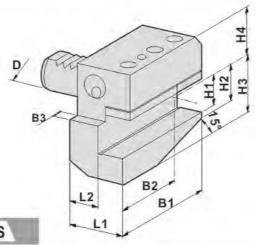


# B5

- Right-hand
- Long
- External Coolant Supply

#### **DIMENSIONS**

D	B1	B2	В3	H1	H2	НЗ	H4	L1	L2	Code No.	Order No.	(Kg) Weight
20	75		-	5/8" (inch)	40	20	05	20	40	4D1503-000	B5-20x5/8"	0.0
20	75	50	1	16 (mm)	19	30	25	30	16	404503-000	B5-20x16	0.8
20	100	65	40	3/4" (inch)	20	38	28	40	22	4E1503-000	B5-30x3/4"	4.0
30	100	60	10	20 (mm)	26	30	20	40	22	405503-000	B5-30x20	1.8
10	440	70	40 F	1" (inch)	35	40	22.5	144	22	4F1503-000	B5-40x1"	0.0
40	118	76	12.5	25 (mm)	35	48	32.5	44	22	406503-000	B5-40x25	2.9
EO	120	00	40	1-1/4" (inch)	140	60	25	FE	20	4G1503-000	B5-50x1-1/4"	-
50	130	80	16	32 (mm)	42	00	35	55	30	407503-000	B5-50x32	5
en	115	02	16	1-1/4" (inch)	40	COE	10 E	00	20	4G1515-000	B5-60x1-1/4"	
60	145 83 1	10	32 (mm)	46	62.5	42.5	60	30 -	407515-000	B5-60x32	7	



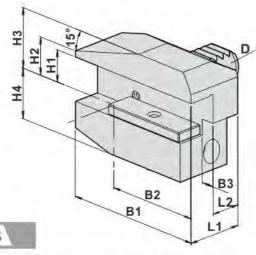
# **B6**

- Left-hand
- ●Long
- External Coolant Supply

D	B1	B2	В3	Н1	H2	нз	Н4	L1	L2	Code No.	Order No.	(Kg) Weight
20	76	50	7	5/8" (inch)	10	20	05	20	40	5D1503-000	B6-20x5/8"	0.0
20	75	50		16 (mm)	19	30	25	30	16	504503-000	B6-20x16	0.8
30	400	CE	40	3/4" (inch)	200	20	00	10	22	5E1503-000	B6-30x3/4"	4.0
30	100	65	10	20 (mm)	26	38	28	40	22	505503-000	B6-30x20	1.8
40	118	76	12.5	1" (inch)	35	48	32.5	44	22	5F1503-000	B6-40x1"	0.0
40	110	10	12.5	25 (mm)	35	46	32.5	44	22	506503-000	B6-40x25	2.9
EO	120	80	40	1-1/4" (inch)	40	60	25	66	30	5G1503-000	B6-50x1-1/4"	1 2
50	130	80	16	32 (mm)	42	00	35	55	30	507503-000	B6-50x32	5
60	115	00	40	1-1/4" (inch)	10	COF	10 E	60	30	5G1509-000	B6-60x1-1/4"	
60	145 83	16	32 (mm)	46	62.5	42.5	60	30	507509-000	B6-60x32	/	





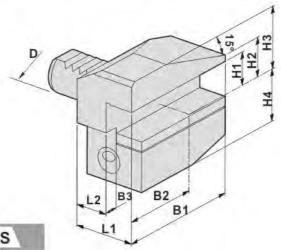


# B7

- Right-hand
- Long
- External Coolant Supply

#### DIMENSIONS

D	B1	B2	В3	H1	H2	НЗ	H4	L1	L2	Code No.	Order No.	(Kg) Weight
20	75	ΕO	7	5/8" (inch)	10	20	25	20	16	4D1504-000	B7-20x5/8"	0.8
20	75	50	1	16 (mm)	19	30	25	30	10	404504-000	B7-20x16	0.0
30	400	GE	40	3/4" (inch)	22	20	2E	10	22	4E1504-000	B7-30x3/4"	10
30	100	65	10	20 (mm)	22	38	35	40	ZZ	405504-000	B7-30x20	1.8
40	118	75.5	12.5	1" (inch)	30	48	42.5	44	22	4F1504-000	B7-40x1"	2.0
40	110	75.5	12.5	25 (mm)	30	40	42.5	44	22	406504-000	B7-40x25	3.2
50	120	80	16	1-1/4" (inch)	35	60	50	55	30	4G1504-000	B7-50x1-1/4"	
50	130	00	10	32 (mm)	30	00	50	55	30	407504-000	B7-50x32	5.5
60	115	02.5	16	1-1/4" (inch)	12.5	60 5	62.5	co	30	4G1516-000	B7-60x1-1/4"	
00	145 82.5 16	10	32 (mm)	42.5	62.5	62.5	60	30	407516-000	B7-60x32	8	



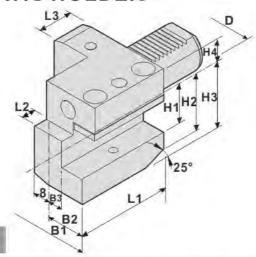
# **B8**

- Left-hand
- ●Long
- External Coolant Supply

D	В1	B2	В3	H1	H2	НЗ	H4	L1	L2	Code No.	Order No.	(Kg) Weight
20	75	50	7	5/8" (inch)	19	20	25	20	16	5D1504-000	B8-20x5/8"	0.8
20	75	50	1	16 (mm)	19	30	25	30	10	504504-000	B8-20x16	0.0
20	100	65	10	3/4" (inch)	22	20	35	10	22	5E1504-000	B8-30x3/4"	10
30	100	65	10	20 (mm)	22	38	33	40	22	505504-000	B8-30x20	1.8
40	118	75.5	12.5	1" (inch)	30	40	42.5	144	22	5F1504-000	B8-40x1"	2.0
40	110	75.5	12.5	25 (mm)	30	48	42.5	44	22	506504-000	B8-40x25	3.2
EO	120	80	40	1-1/4" (inch)	35	co	FO	55	30	5G1504-000	B8-50x1-1/4"	
50	130	80	16	32 (mm)	35	60	50	22	30	507504-000	B8-50x32	5.5
60	115	02.5	10	1-1/4" (inch)	ADE	62.5	62.5	60	30	5G1510-000	B8-60x1-1/4"	0
00	145 82.5 16	10	32 (mm)	42.5	62.5	62.5	60	30	507510-000	B8-60x32	- 8	



# **DIN 69880 STATIC HOLDER**

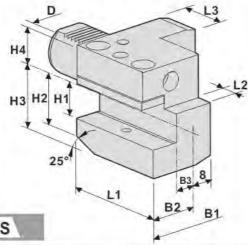


# C1

- Right-hand
- External Coolant Supply

#### DIMENSIONS

D	В1	В2	В3	H1	H2	НЗ	Н4	L1	L2	L3	Code No.	Order No.	(Kg) Weight
20	65	40	26	5/8" (inch)	23	30	25	FO	7	30	5D1505-000	C1-20x5/8"	1
20	00	40	20	16 (mm)	23	30	25	50	- /	30	504505-000	C1-20x16	1
30	70	35	17	3/4" (inch)	28	38	28	70	10	30	5E1505-000	C1-30x3/4"	1.0
30	70	30	17	20 (mm)	20	30	20	70	10	30	505505-000	C1-30x20	1.8
40	O.E.	10 E	24	1" (inch)	1	40	22 E	05	10 E	20	5F1505-000	C1-40x1"	2.0
40	85	42.5	21	25 (mm)		48	32.5	85	12.5	30	506505-000	C1-40x25	3.6
EO	400	FO	200	1-1/4" (inch)		co	25	400	40	40	5G1505-000	C1-50x1-1/4"	66
50	100	50	26	32 (mm)		60	35	100	16	40	507505-000	C1-50x32	5.5
60	105	CO E	22	1-1/4" (inch)		COE	42.5	105	16	40	5G1511-000	C1-60x1-1/4"	40
60	125	7/5 6/5 33	32 (mm)		62.5	42.5	125	10	40	507511-000	C1-60x32	10	

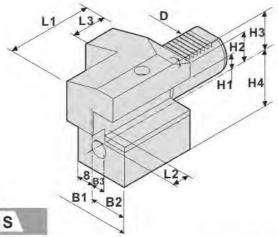


#### C2

- Left-hand
- External Coolant Supply

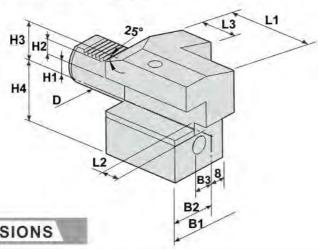
D	B1	B2	ВЗ	H1	H2	нз	H4	L1	L2	L3	Code No.	Order No.	(Kg) Weight
20	65	40	26	5/8" (inch) 16 (mm)	23	30	25	50	7	30	4D1505-000 404505-000	C2-20x5/8" C2-20x16	- 1
30	76	41	23	3/4" (inch) 20 (mm)	28	38	28	70	10	30	4E1505-000 405505-000	C2-30x3/4" C2-30x20	1.8
40	90	47.5	25.5	1" (inch) 25 (mm)	40	48	32.5	85	12.5	30	4F1505-000 406505-000	C2-40x1" C2-40x25	3.6
40	140.5	98	76	1" (inch) 25 (mm)	40	48	36.5	85	12.5	30	4F1518-000 406518-000	C2-40xC1"-76L C2-40xC25-76L	6.3
50	105	55	30.5	1-1/4" (inch) 32 (mm)	1	60	35	100	16	40	4G1505-000 407505-000	C2-50x1-1/4" C2-50x32	- 6
60	125	62.5	33	1-1/4" (inch) 32 (mm)	1	62.5	42.5	125	16	40	4G1517-000 407517-000	C2-60x1-1/4" C2-60x32	10





- Right-hand
- External Coolant Supply

D	В1	B2	ВЗ	Н1	H2	НЗ	Н4	L1	L2	L3	Code No.	Order No.	(Kg) Weight
20	65	40	26	5/8" (inch)	23	30	25	50	7	30	5D1506-000	C3-20x5/8"	1
20	00	40	20	16 (mm)	23	30	25	50		30	504506-000	C3-20x16	
30	70	25	17	3/4" (inch)	28	20	35	70	40	30	5E1506-000	C3-30x3/4"	10
30	70	35	1/	20 (mm)	20	38	35	70	10	30	505506-000	C3-30x20	1.8
40	05	AD E	21	1" (inch)		40	ADE	85	10 E	30	5F1506-000	C3-40x1"	2.0
40	85	42.5	21	25 (mm)	9	48	42.5	00	12.5	30	506506-000	C3-40x25	3.6
40	AAEE	00	76	1" (inch)	35	40	10 5	85	12.5	30	5F1518-000	C3-40xF1"-76	00
40	145.5	98	10	25 (mm)	35	48	42.5	85	12.5	30	506518-000	C3-40xF25-76	6.3
50	100	50	26	1-1/4" (inch)		60	50	100	16	40	5G1506-000	C3-50x1-1/4"	6
50	100	50	20	32 (mm)	-	60	50	100	10	40	507506-000	C3-50x32	6
60	405	CO F	5 1-1/4" (inch)		COF	COL	105	16	40	5G1512-000	C3-60x1-1/4"	- 40	
bU	125	62.5	33	32 (mm)	-	62.5	62.5	125	16	40	507512-000	C3-60x32	10



- Left-hand
- External Coolant Supply

D	IM	F	N:	SI	O	N	s
_				•	•		·

D	B1	B2	В3	H1.	H2	Нз	H4	L1	L2	L3	Code No.	Order No.	(Kg) Weight
20	CE	40	200	5/8" (inch)	23	20	25	ED	7	20	4D1506-000	C4-20x5/8"	4
20	65	40	26	16 (mm)	23	30	25	50	1	30	404506-000	C4-20x16	
30	76	44	23	3/4" (inch)	20	20	35	70	10	30	4E1506-000	C4-30x3/4"	10
30	76	41	23	20 (mm)	28 38 38	35	10	10	30	405506-000	C4-30x20	1.8	
40	00	47.5	DEE	1" (inch)	7 7 1	40	10 E	OF	10 5	20	4F1506-000	C4-40x1"	0.0
40	90	47.5	25.5	25 (mm)	1-5	- 48 42.	42.5	85	12.5	30	406506-000	C4-40x25	3.6
EO	105	EE	20 E	1-1/4" (inch)		co	FO	100	10	10	4G1506-000	C4-50x1-1/4"	0.0
50	105	55	30.5	32 (mm)	1	00	60 50	100	16	40	407506-000	C4-50x32	6.3
60	105	COF	22	1-1/4" (inch)		COF	COF	105	40	40	4G1518-000	C4-60x1-1/4"	100
60	0 125	62.5	33	32 (mm)		62.5	62.5	125	16	40	407518-000	C4-60x32	10



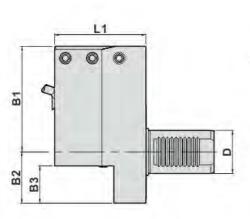
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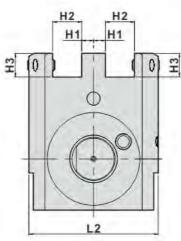
C4

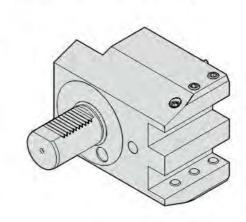
# **DIN 69880 STATIC HOLDER**

# C4

- Right-hand
- External Coolant Supply





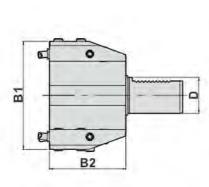


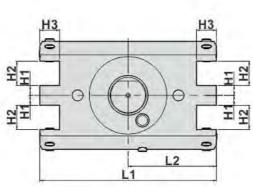
#### DIMENSIONS

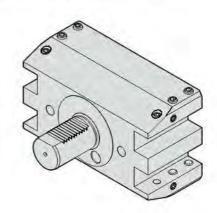
D	В1	B2	В3	H1	H2	нз	L1	L2	Code No.	Order No.	(Kg) Weight
40	98	47.5	34.5	11	27	22	85	120	406520-000	C4-40-25x2-76	9

# C4

- Right-hand
- External Coolant Supply



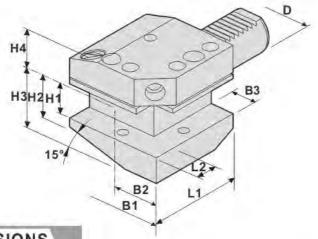




D	B1	B2	H1	H2	НЗ	L1	L2	Code No.	Order No.	(Kg) Weight
40	120	85	-11	27	22	196	98	406521-000	C4-40-25x4-76	13.8





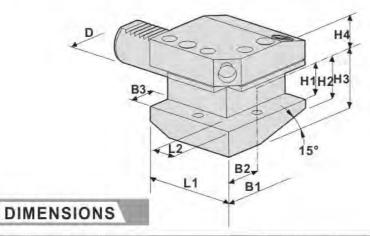


# CB1

- Right-hand
- External Coolant Supply

#### **DIMENSIONS**

D	B1	B2	вз	Н1	H2	нз	Н4	L1	L2	Code No.	Order No.	(Kg) Weight
20	05	40	44	5/8" (inch)	40	20	05		14	4D1507-000	CB1-20x5/8"	4.4
20	65	40	14	16 (mm)	19	30	25	50	14	404507-000	CB1-20x16	1.1
30	74 40	18	3/4" (inch)	26	38	28	70	18	4E1507-000	CB1-30x3/4"	2.2	
30	14	40	10	20 (mm)	20	30	20	70	10 18	405507-000	CB1-30x20	2.2
40	0 85	AE	22	1" (inch)	2E	17 E	10 5	100	22	4F1507-000	CB1-40x1"	5.3
40	00	45	22	25 (mm)	35	47.5	42.5	100	22	406507-000	CB1-40x25	5.5
En	105	55	25	1-1/4" (inch)	42	20	35	120	25	4G1507-000	CB1-50x1-1/4"	7.0
50	105	55	25	32 (mm)	42	60 3	33	120	25	407507-000	CB1-50x32	7.8
en	60 125	62.5	30	1-1/4" (inch)	46	62.5	62.5	125	30	4G1519-000	CB1-60x1-1/4"	V.F
60	125	62.5	30	32 (mm)	40	62.5	62.5	135	30	407519-000	CB1-60x32	15

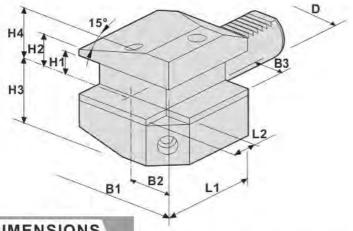


# CB<sub>2</sub>

- Left-hand
- External Coolant Supply

D	B1	B2	ВЗ	H1	H2	НЗ	H4	L1	L2	Code No.	Order No.	(Kg) Weight
20	CE	40	14	5/8" (inch)	19	30	25	50	44	4D1508-000	CB2-20x5/8"	4.4
20	65	40	14	16 (mm)	nin)	14	404508-000	CB2-20x16	1.1			
20	30 74	40	18	3/4" (inch)	26	20	20	70	18	4E1508-000	CB2-30x3/4"	0.0
30	14	40	10	20 (mm)	20	26 38 28	20	70	10	405508-000	CB2-30x20	2.2
40		47	22	1" (inch)	25	47 E	42.5	100	22	4F1508-000	CB2-40x1"	
40	85	4/	22	25 (mm)	35 47.5	47.5	42.5	100	22	406508-000	CB2-40x25	5.3
50	105	55	25	1-1/4" (inch)	42 60	co	35	120	25	4G1508-000	CB2-50x1-1/4"	7.0
50	105	55	25	32 (mm)		33	120	25	407508-000	CB2-50x32	7.8	
60	125	62.5	30	1-1/4" (inch)	16	62.5 62	COE	135	30	4G1520-000	CB2-60x1-1/4"	16
DU	1 1/2	10/01	-3U T	00/	46 62.5	62.5	1 1.55	JU I	107500 000	000 00 00	15	



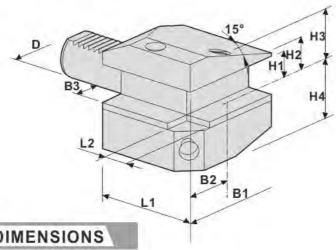


CB3

- Right-hand
- External Coolant Supply

# DIMENSIONS

D	B1	B2	В3	H1	H2	НЗ	H4	L1	L2	Code No.	Order No.	(Kg) Weight
20	65	40	14	5/8" (inch)	19	25	30	50	14	4D1509-000	CB3-20x5/8"	1.1
20	03	40	14	16 (mm)	19	25	30	50	14	404509-000	CB3-20x16	Li h
30	74 40	18	3/4" (inch)	- 22	38	28	70	18	4E1509-000	CB3-30x3/4"	0.0	
30	14	74 40	10	20 (mm)	22	30	20	70	10	405509-000	CB3-30x20	2.2
40	10 85	AF	22	1" (inch)	20	10.5	47 E	400	22	4F1509-000	CB3-40x1"	
40	83	45	22	25 (mm)	30	42.5	47.5	100	22	406509-000	CB3-40x25	5.3
EO	105	55	25	1-1/4" (inch)	35 50	FO	co	120	25	4G1509-000	CB3-50x1-1/4"	7.0
50	105	33	25	32 (mm)		50	60	120	25	407509-000	CB3-50x32	7.8
20	30 125	COF	20	1-1/4" (inch)	100	CO E	60.5	105	20	4G1521-000	CB3-60x1-1/4"	1
00		62.5	30	32 (mm)	42.5	62.5	62.5	135	30	407521-000	CB3-60x32	15



# CB4

- Left-hand
- External Coolant Supply

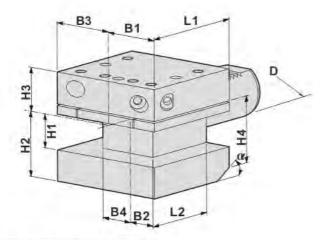
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-	_	_	-	_	-	

D	В1	B2	В3	H1	H2	НЗ	H4	L1	L2	Code No.	Order No.	(Kg) Weight
20	C.F.	40	44	5/8" (inch)	40	200	25		44	4D1510-000	CB4-20x5/8"	4.4
20	65	40	14	16 (mm)	19	30	25	50	14	404510-000	CB4-20x16	1.1
30	0 74 40	40	10	3/4" (inch)	22	28	38	70	18	4E1510-000	CB4-30x3/4"	0.0
30	14	40 16 20 (mm)	22	20	30	70	10	405510-000	CB4-30x20	2.2		
40	OF	47	1" (inch)	100	22	4F1510-000	CB4-40x1"					
40	85	47	22	25 (mm)	30	47.5	42.5	100	22	406510-000	CB4-40x25	5.3
50	105	55	25	1-1/4" (inch)	25	en	50	120	25	4G1510-000	CB4-50x1-1/4"	
50	105	55	25	32 (mm)	33	35 60	50	120	25	407510-000	CB4-50x32	7.8
co	30 125	COF	20	1-1/4" (inch)	12 E	CO E	COE	125	20	4G1522-000	CB4-60x1-1/4"	
00		62.5	30	32 (mm)	42.5	62.5	62.5	135	30	407522-000	CB4-60x32	15

TYPE

D1 D2

# **DIN 69880 COMBINED STATIC HOLDER**

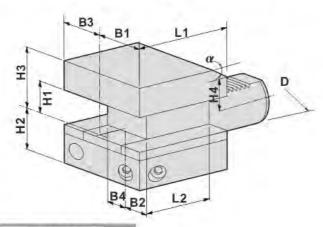


# D1

- Right-hand
- External Coolant Supply

# DIMENSIONS

D	В1	B2	В3	B4	H1	H2	НЗ	H4	L1	L2	α	Code No.	Order No.	(Kg) Weight
20	35	17	41	22	3/4" (inch)	20	25	20	co	40	25°	4E1511-000	D1-30x3/4"	22
30	33	17	41	23	20 (mm)	38	35	30	60	42	25	405511-000	D1-30x20	2.3
20	35	17	41	23	3/4" (inch)	38 32.5	22 5	40	90	72	15°	4E1515-000	D1-30-C3/4"x3-90	3.2
30	33	17	41	23	20 (mm)		32.3	40	90	1.2	15	405515-000	D1-30-C20x3-90	3.2
40	10 E	21	17 E	25 5	1" (inch)	48	22 5	37	72	EO	25°	4F1511-000	D1-40x1"	1.1
40	42.5	21	47.5	25.5	25 (mm)	40	32.5	31	12	50	25	406511-000	D1-40x25	4.1
En	FO	200	cc	20 5	1-1/4" (inch)	00 50	50	100	05	60		4G1511-000	D1-50x1-1/4"	7.5
50	50	26	55	30.5	32 (mm)	60	50		85	00		407511-000	D1-50x32	7.5
60	E7 E	22.5	E7 E	22 5	1-1/4" (inch)	62 E	5 41.5	15.1	440	05		4G1523-000	D1-60x1-1/4"	40.0
60	57.5	32.5	57.5	32.5	32 (mm)	03.5	41.5	41.5 -	110	85		407523-000	D1-60x32	10.3



# D2

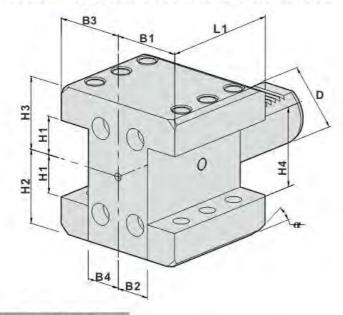
- Left-hand
- ■External Coolant Supply

D	В1	В2	В3	В4	H1	Н2	НЗ	H4	L1	L2	α	Code No.	Order No.	(Kg) Weight
30	35	17	41	23	3/4" (inch) 20 (mm)	38	35	30	60	42	25°	4E1512-000 405512-000	D2-30x3/4" D2-30x20	2.3
30	35	17	41	23	20 (mm)	32.5	38	40	90	72	15°	405529-000	D2-30-C20x3-90	3.2
40	42.5	21	47.5	25.5	1" (inch) 25 (mm)	48	42.5	40	72	50	25°	4F1512-000 406512-000	D2-40x1" D2-40x25	4.1
50	50	26	55	30.5	1-1/4" (inch) 32 (mm)	60	50	1.6	85	60	[8]	4G1512-000 407512-000	D2-50x1-1/4" D2-50x32	7.5
60	57.5	32.5	57.5	32.5	1-1/4" (inch) 32 (mm)	41.5	63.5	•	110	85	150	4G1524-000 407524-000	D2-60x1-1/4" D2-60x32	10.3



Evermore



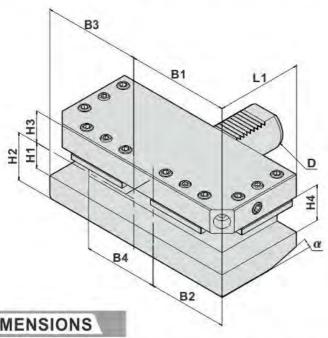


D12

- Right-hand
- External Coolant Supply

# DIMENSIONS

D	B1	B2	ВЗ	В4	H1	Н2	НЗ	H4	L1	α	Code No.	Order No.	(Kg) Weight								
		0.5	52.5	0.15	3/4" (inch)	-00	00	40	00	0.50	4E1513-000	D12-30x3/4"	4.0								
30	52.5	34.5		52.5	52.5	52.5	52.5	34.5	20 (mm)	38	38	40	80	25°	405513-000	D12-30x20	4.8				
40	100	24	40	46	40	40	40	40	40	40	40	24	1" (inch)	100	10	40	26	0.50	4F1513-000	D12-40x1"	6.0
40	46	24	46	24	25 (mm)	48	48	42	85	25°	406513-000	D12-40x25	5.4								



# D1

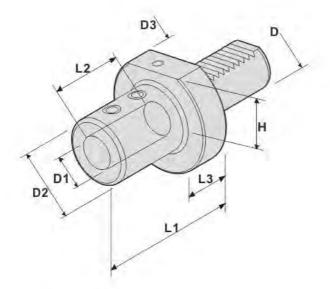
- Right-hand
- External Coolant Supply

D	B1	B2	ВЗ	В4	Н1	Н2	нз	Н4	L1	α	Code No.	Order No.	(Kg) Weight
40	98	76	98	76	25	48	32.5	34	63	15°	406519-000	D1-40-C25-76	9.2





# **DIN 69880 STATIC HOLDER**



E1

Internal Coolant Supply

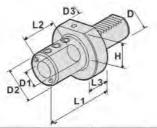
D	D1	D2	D3.	н	L1	L2	L3	Code No.	Order No.	(Kg) Weight
20	3/4" (inch) 20 (mm)	40	50	00-11	67	54	18	3E1506-000 305506-000	E1-20x3/4" E1-20x20	0.8
20	1" (inch) 25 (mm)	45	50	ne.	71	59	18	3F1506-000 306506-000	E1-20x1" E1-20x25	0.8
30	3/4" (inch) 20 (mm)	40	68	28	67	54	22	3E1507-000 305507-000	E1-30x3/4" E1-30x20	1.2
30	1" (inch) 25 (mm)	45	68	28	71	59	22	3F1507-000 306507-000	E1-30x1" E1-30x25	1.2
30	1-1/4" (inch) 32 (mm)	- 52	68	28	75	63	22	3G1505-000 307505-000	E1-30x1-1/4" E1-30x32	1.3
40	5/8"(inch) 16(mm)	- 36	83	32.5	64	51	22	3D1508-000 304508-000	E1-40x5/8" E1-40x16	1.7
40	3/4" (inch) 20 (mm)	40	83	32.5	67	54	22	3E1508-000 305508-000	E1-40x3/4" E1-40x20	1.8
40	1" (inch) 25 (mm)	52	83	32.5	75	59	22	3F1508-000 306508-000	E1-40x1" E1-40x25	- 2
40	1-1/4" (inch) 32 (mm)	60	83	32.5	75	63	22	3G1506-000 307506-000	E1-40x1-1/4" E1-40x32	2.2
40	1-1/2" (inch) 40(mm)	60	83	32.5	90	73	22	3H1504-000 308504-000	E1-40x1-1/2" E1-40x40	2.5
50	3/4" (inch) 20 (mm)	45	98	35	67	54	30	3E1509-000 305509-000	E1-50x3/4" E1-50x20	2.8
50	1" (inch) 25 (mm)	50	98	35	80	59	30	3F1509-000 306509-000	E1-50x1" E1-50x25	2.9
50	1-1/4" (inch) 32 (mm)	- 60	98	35	80	63	30	3G1507-000 307507-000	E1-50x1-1/4" E1-50x32	3.1
50	1-1/2" (inch) 40 (mm)	- 68	98	35	90	73	30	3H1505-000 308505-000	E1-50x1-1/2" E1-50x40	3.4
50	1-1/2" (inch) 40 (mm)	- 68	98	35	135	73	30	3H1506-000 308506-000	E1-50x1-1/2"-135L E1-50x40-135L	4.6
50	1-1/2" (inch) 40 (mm)	68	98	35	135	108	30	3H1507-000 308507-000	E1-50x1-1/2"-135L-1 E1-50x40-135L-1	4.6
50	2" (inch) 50 (mm)	70	98	35	100	83	30	311503-000 309503-000	E1-50x2" E1-50x50	4.1
50	50 (mm)	78	98	-	135	105	40	309518-000	E1-50x50-135	5.3
50	50 (mm)	78	98		125	108	40	309519-000	E1-50x50-125	4.9



Evermore



DIMENSIONS

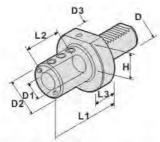


# E2

- Boring Bar Holder
- External Coolant Supply
- KT : used for high pressure external coolant supply

					AG .				20 2 2 2 1 2 1 1 1 1 1 2 1 1 E	F.3
D	D1	D2	D3	н	L1	L2	L3	Code No.	Order No.	(Kg) Weight
20	8	40	50	Jan.	50	41	18	301501-000	E2-20x8	0.7
20	10	40	50		50	41	18	302501-000	E2-20x10	0.7
20	12	40	50	172 -1	50	41	18	303501-000	E2-20x12	0.7
20	16	40	50	18-	50	41	18	304501-000	E2-20x16	0.7
20	20	50	50	1 1-11	50	41	12	305501-000	E2-20x20	8.0
20	25	50	50		60	51	8	306501-000	E2-20x25	0.9
30	8	50	68	23	60	40	18	301502-000	E2-30x8	1.3
30	10	50	68	28	60	42	22	302502-000	E2-30x10	1.3
30	12	50	68	28	60	42	22	303502-000	E2-30x12	1.3
30	16	55	68	28	60	42	22	304502-000	E2-30x16	1.3
30	20	58	68	28	60	51	22	305502-000	E2-30x20	1.4
30	25	62	68	28	60	51	22	306502-000	E2-30x25	1.4
30	25	62	68	28	60	51	22	306518-000	E2-30x25-KT	1.4
30	32	68	68	28	75	61	2	307501-000	E2-30x32	1.9
40	10	50	83	32.5	75	40	22	302503-000	E2-40x10	2.2
40	12	50	83	32.5	75	57	22	303503-000	E2-40x12	2.2
40	16	56	83	32.5	75	57	22	304503-000	E2-40x16	2.3
40	20	56	83	32.5	75	57	22	305503-000	E2-40x20	2.3
40	25	62	83	32.5	75	69	22	306503-000	E2-40x25	2.4
40	32	72	83	32.5	75	69	22	307502-000	E2-40x32	2.7
40	40	83	83	32.5	85	76	11 30 1	308501-000	E2-40x40	3
40	50	-0.5	83	32.5	100	83	-B.	309504-000	E2-40x50-100	3.4
50	10	50	98	35	90	40	30	302504-000	E2-50x10	3.1
50	12	56	98	35	90	66	30	303504-000	E2-50x12	3.3
50	16	56	98	35	90	66	30	304504-000	E2-50x16	3.3
50	20	62	98	35	90	73	30	305504-000	E2-50x20	3.5
50	25	72	98	35	90	73	30	306504-000	E2-50x25	3.8
50	32	72	98	35	90	73	30	307503-000	E2-50x32	3.6
50	40	80	98	35	90	74	30	308502-000	E2-50x40	3.8
50	50		98	35	95	83	3-6	309501-000	E2-50x50	4.6
60	10	68	123	42.5	90	40	35	302505-000	E2-60x10	5.2
60	12	68	123	42.5	90	66	35	303505-000	E2-60x12	5.2
60	16	68	123	42.5	90	66	35	304505-000	E2-60x16	5.2
60	20	68	123	42.5	90	73	35	305505-000	E2-60x20	5.2
60	25	68	123	42.5	90	74	35	306505-000	E2-60x25	5
60	32	68	123	42.5	90	74	35	307504-000	E2-60x32	5
60	40	98	123	42.5	90	74	35	308503-000	E2-60x40	6.4
60	50	98	123	42.5	100	84	35	309502-000	E2-60x50	6
60	60	123	123	42.5	153	128	30	310504-000	E2-60x60-153L	14.1

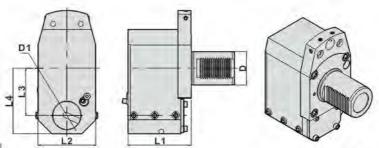




E2

- Boring Bar Holder
- External Coolant Supply

D	D1	D2	D3	н	L1	L2	L3	Code No.	Order No.	(Kg) Weight
20	5/16"	40	50	0.	50	41	18	3A1501-000	E2-20x5/16"	0.7
20	3/8"	40	50		50	41	18	3B1501-000	E2-20x3/8"	0.7
20	1/2"	40	50	Α	50	41	18	3C1501-000	E2-20x1/2"	0.7
20	5/8"	40	50	13-35	50	41	18	3D1501-000	E2-20x5/8"	0.7
20	3/4"	50	50	8.1	50	41	1.7	3E1501-000	E2-20x3/4"	0.8
20	1"	50	50	87	60	51	- 100	3F1501-000	E2-20x1"	0.9
30	5/16"	50	68	28	60	40	18	3A1502-000	E2-30x5/16"	1.3
30	3/8"	50	68	28	60	42	22	3B1502-000	E2-30x3/8"	1.3
30	1/2"	50	68	28	60	42	22	3C1502-000	E2-30x1/2"	1.3
30	5/8"	55	68	28	60	42	22	3D1502-000	E2-30x5/8"	1.3
30	3/4"	58	68	28	60	51	22	3E1502-000	E2-30x3/4"	1.4
30	10	62	68	28	60	51	22	3F1502-000	E2-30x1"	1.4
30	1-1/4"	68	68	28	75	61		3G1501-000	E2-30x1-1/4"	1.9
40	3/8"	50	83	32.5	75	40	22	3B1503-000	E2-40x3/8"	2.2
40	1/2"	50	83	32.5	75	57	22	3C1503-000	E2-40x1/2"	2.2
40	5/8"	56	83	32.5	75	57	22	3D1503-000	E2-40x5/8"	2.3
40	3/4"	56	83	32.5	75	57	22	3E1503-000	E2-40x3/4"	2.3
40	1"	62	83	32.5	75	69	22	3F1503-000	E2-40x1"	2.4
40	1-1/4"	72	83	32.5	75	69	22	3G1502-000	E2-40x1-1/4"	2.7
40	1-1/2"	83	83	32.5	85	76	- Y	3H1501-000	E2-40x1-1/2"	3
40	2"		83	32.5	100	83		311504-000	E2-40x2"-100	3,4
50	3/8"	50	98	35	90	40	30	3B1504-000	E2-50x3/8"	3.1
50	1/2"	56	98	35	90	66	30	3C1504-000	E2-50x1/2"	3.3
50	5/8"	56	98	35	90	66	30	3D1504-000	E2-50x5/8"	3.3
50	3/4"	62	98	35	90	73	30	3E1504-000	E2-50x3/4"	3.5
50	1"	72	98	35	90	73	30	3F1504-000	E2-50x1"	3.8
50	1-1/4"	72	98	35	90	73	30	3G1503-000	E2-50x1-1/4"	3.6
50	1-1/2"	80	98	35	90	74	30	3H1502-000	E2-50x1-1/2"	3.8
50	2"	-	98	35	95	83	11.1140.1	311501-000	E2-50x2"	4.6
60	3/8"	68	123	42.5	90	40	35	3B1505-000	E2-60x3/8"	5.2
60	1/2"	68	123	42.5	90	66	35	3C1505-000	E2-60x1/2"	5.2
60	5/8"	68	123	42.5	90	66	35	3D1505-000	E2-60x5/8"	5.2
60	3/4"	68	123	42.5	90	73	35	3E1505-000	E2-60x3/4"	5.2
60	1"	68	123	42.5	90	74	35	3F1505-000	E2-60x1"	5
60	1-1/4"	68	123	42.5	90	74	35	3G1504-000	E2-60x1-1/4"	5
60	1-1/2"	98	123	42.5	90	74	35	3H1503-000	E2-60x1-1/2"	6.4
60	2"	98	123	42.5	100	84	35	311502-000	E2-60x2"	6
60	2-1/2"	123	123	42.5	153	128	30	3J1504-000	E2-60x2-1/2"-153L	14.1

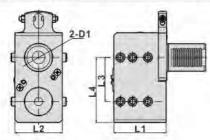


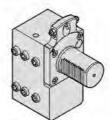
# DIMENSIONS

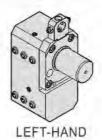
DIMENSIONS

External coolant supply

D DIN 69880	D1	L1	L2	L3	L4	Code No.	Order No.	(Kg) Weight
50	2" (inch)	0.5	0.0	80	440	311509-000	E2-50xB2"-80	9.8
50	50 (mm)	95	86	00	118	309509-000	E2-50xB50-80	9.0
60	2" (inch)	444	104	80	440	311516-000	E2-60xB2"-80	40.0
60	50 (mm)	114	104	00	118	309516-000	E2-60xB50-80	16.3
00	2" (inch)	34.4	104	05	440	311513-000	E2-60xB2"-85	1.000
60	50 (mm)	114	104	85	118	309513-000	E2-60xB50-85	16.3



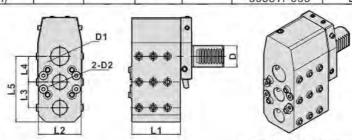




RIGHT-HAND

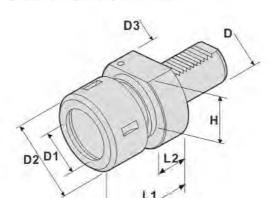
External, internal coolant supply

D DIN 69880	D1	L1	L2	L3	L4	Code No.	Order No.	(Kg) Weight
20	1" (inch)	65	co	25	FCF	3F1512-000	E2-30-B1"x2 -35	2.8
30	25 (mm)	65	60	35	56.5	306512-000	E2-30-B25x2-35	2.8
40	1-1/4" (inch)	00.5	75	00	AAF	3G1512-000	E2-40-B1-1/4"x2-90-L	7
40	32 (mm)	80.5	75	90	115	307512-000	E2-40-B32x2-90-L	1
40	1-1/2" (inch)	00	75	CE	04	3H1508-000	E2-40-B1-1/2"x2-65	E.C.
40	40 (mm)	90	75	65	91	308508-000	E2-40-B40x2-65	5.6
40	1-1/2" (inch)	90	75	C.E.	91	3H1532-000	E2-40-B1-1/2"x2-65-L	F.C.
40	40 (mm)	90	75	65	91	308532-000	E2-40-B40x2-65-L	5.6
EO	2" (inch)	00	00	00	44.0	311510-000	E2-50-B2"x2-80	0.0
50	50 (mm)	96	86	80	118	309510-000	E2-50-B50x2-80	8.8
co	2" (inch)	400	405	00	447	311508-000	E2-60-B2"x2-80	45.5
60	50 (mm)	100	105	80	117	309511-000	E2-60-B50x2-80	15.5



External, internal coolant supply

D DIN 69880	D1	D2	L1	L2	L3	L4	L5	Code No.	Order No.	(Kg) Weight
30	25 (mm)	20 (mm)	84	60	36	36	92	305516-000	E2-30-B20x2-B25-72	4.7

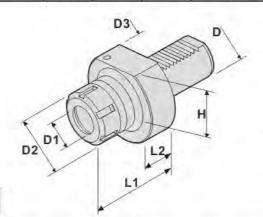


# E3

- For Collet DIN 6388
- External Coolant Supply

# DIMENSIONS

D	D1	D2	D3	н	L1	L2	Code No.	Order No.	(Kg) Weight
30	2-25	60	68	28	75	25	630001-000	E3-30-OZ25	1.4
40	2-25	60	83	32.5	75	28	640001-000	E3-40-OZ25	2.1
40	4-32	78	83	32.5	90	28	640002-000	E3-40-OZ32	2.7
50	2-25	60	98	35	75	30	650001-000	E3-50-OZ25	3.5
50	4-32	78	98	35	90	30	650002-000	E3-50-OZ32	4.1



# E4

- For Collet DIN 6499
- External Coolant Supply
- Internal Coolant Supply

D	D1	D2	D3	н	L1	L2	Code No.	Order No.	(Kg) Weight
20	1-16	42	50	1	53	20	620101-000	E4-20-ER25	0.7
30	1-16	42	68	28	53	22	630101-000	E4-30-ER25	1
30	2-20	50	68	28	57	22	630102-000	E4-30-ER32	1.3
40	1-16	42	83	32.5	61	28	640101-000	E4-40-ER25	1.9
40	2-20	50	83	32.5	62	28	640102-000	E4-40-ER32	2
40	3-26	63	83	32.5	75	28	640103-000	E4-40-ER40	2.2
50	3-26	63	98	35	62	30	650101-000	E4-50-ER40	3
60	3-26	63	123	42.5	75	30	660101-000	E4-60-ER40	5.6
60	10-34	78	123	42.5	80	30	660102-000 E4-60-ER		6



VDI 攻牙刀座-浮動攻牙



#### **TAPPER**

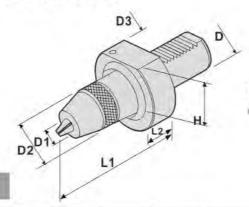
- For Collet DIN 6499
- External Coolant Supply

#### **DIMENSIONS**

D	D1	D2	D3	D3 H L1		L2	Code No.	Order No.	(Kg) Weight
20	1-13	34	50	Ŧ	100	22	TAP201-000	TAP-20-ER20	1
30	1-16	42	68	28	86	28	TAP301-000	TAP-30-ER25	1.4
40	1-16	42	83	32.5	85	28	TAP401-000	TAP-40-ER25	2
50	2-20	50	98	35	118	30	TAP501-000	TAP-50-ER32	4
60	2-20	50	123	42.5	120	30	TAP601-000	TAP-60-ER32	5.3

## **KEYLESS DRILL CHUCK**

鑽夾頭



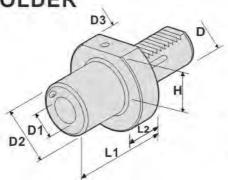
#### **KEYLESS DRILL CHUCK**

External Coolant Supply

D	D1	D2	D3	н	L1	L2	Code No.	Order No.	(Kg) Weight
30	1-13	51	68	28	85	22	830131-000	CHUCK-30-13	2.1
40	1-13	51	83	32.5	85	22	840131-000	CHUCK-40-13	2.1
40	3-16	58	83	32.5	102	22	840161-000	CHUCK-40-16	2.3
50	1-13	51	98	35	85	30	850131-000	CHUCK-50-13	3.1
50	3-16	58	98	35	90	30	850161-000	CHUCK-50-16	3,2
60	1-13	51	123	42.5	85	25	860131-000	CHUCK-60-13	4.4
60	3-16	58	123	42.5	90	25	860161-000	CHUCK-60-16	4.5



莫氏鑽頭

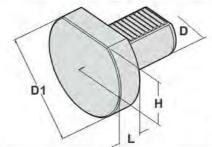


- Tool holders with morse taper according DIN 228
- External coolant supply

#### DIMENSIONS

D	D1	D2	D3	н	L1	L2	Code No.	Order No.	(Kg) Weight
20	MT1	44	50	20	23	18	820MT1-000	F20-MT1	0.5
30	MT1	58	68	28	25	20	830MT1-000	F30-MT1	0.9
30	MT2	58	68	28	43	22	830MT2-000	F30-MT2	1.2
30	МТЗ	58	68	28	74	22	830MT3-000	F30-MT3	1.6
40	MT1	55	83	32.5	36	22	840MT1-000	F40-MT1	1.6
40	MT2	56	83	32.5	34	22	840MT2-000	F40-MT2	1.5
40	МТЗ	72	83	32.5	58	22	840MT3-000	F40-MT3	2.2
40	MT4	72	83	32.5	86	35	840MT4-000	F40-MT4	2.8
50	MT1	55	98	35	36	30	850MT1-000	F50-MT1	2.7
50	MT2	55	98	35	36	30	850MT2-000	F50-MT2	2.6
50	МТЗ	60	98	35	44	30	850MT3-000	F50-MT3	2.7
50	MT4	70	98	35	71	30	850MT4-000	F50-MT4	3.2
60	MT2	55	123	42.5	36	30	860MT2-000	F60-MT2	4.3
60	МТЗ	60	123	42.5	44	30	860MT3-000	F60-MT3	4.4
60	MT4	68	123	42.5	50	30	860MT4-000	F60-MT4	4.3
60	MT5	98	123	42.5	81	30	860MT5-000	F60-MT5	5.7

# PLUG 保孔蓋

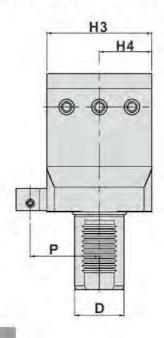


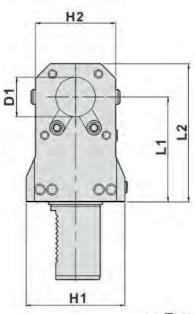
- Made From Plastic
- Made From Metal

D	D1	н	L.	Code No.	Order No.	Material	(Kg) Weight
20	50	1991	16	Z2000S-000	Z20S	Metal	0.4
30	68	26.5	16	Z30000-000 Z3000S-000	Z30 Z30S	Plastic Metal	0.7
40	82	32	20	Z40000-000 Z4000S-000	Z40 Z40S	Plastic Metal	1.4
50	98	35	20	Z5000S-000	Z50S	Metal	2
60	116	12.2	20	Z6000S-000	Z60S	Metal	3.6





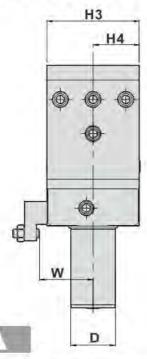


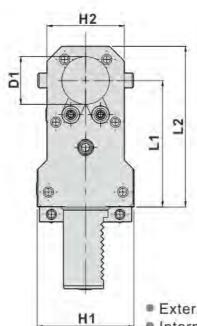


- External coolant supply
- Internal Coolant Supply

D DIN 69880	D1	H1	H2	нз	Н4	L1	L2	P	Code No.	Order No.	(Kg) Weight
20	1-1/4" (inch)	65	52	ca	31	65	90	48	3G1521-000	T1-30-1-1/4"-65	0.4
30	32 (mm)	05	52	62	31	65	90	40	307521-000	T1-30-32 -65	2.4
20	1-1/4" (inch)	05		00	24	or	400	40	3G1522-000	T1-30-1-1/4"-85	0
30	32 (mm)	65	52	62	31	85	108	48	307522-000	T1-30-32-85	3
30	1-1/4" (inch)	65	52	62	31	100	123	48	3G1523-000	T1-30-1-1/4"-100	3.2
30	32 (mm)	65	52	02	31	100	123	48	307523-000	T1-30-32-100	3.2
30	1-1/4" (inch)	65	52	62	31	420	440	48	3G1524-000	T1-30-1-1/4"-120	20
30	32 (mm)	00	52	02	31	120	143	48	307524-000	T1-30-32 -120	3.9
20	1-1/2" (inch)		CF	0.5	24	0.5	440	40	3H1509-000	T1-30-1-1/2"-85	10
30	40(mm)		65	85	54	85	112	48	308509-000	T1-30-40-85	4.3
40	1-1/4" (inch)	80	CF	0.5	40.5	or	440	F.C.	3G1508-000	T1-40-1-1/4" -85	
40	32 (mm)	80	65	85	42.5	85	112	56	307508-000	T1-40-32-85	5.2
40	1-1/2" (inch)	00	0.5	O.F	10.0	0.5	440		3H1515-000	T1-40-1-1/2" -85	-
40	40 (mm)	80	65	85	42.5	85	112	56	308515-000	T1-40-40-85	5
40	1-1/2" (inch)	00	05	0.5	10.5	400	407	50	3H1516-000	T1-40-1-1/2" -100	
40	40 (mm)	80	65	85	42.5	100	127	56	308516-000	T1-40-40-100	5.7
40	1-1/2" (inch)	- 00	0.5	0.5	10.0	400	227		3H1520-000	T1-40-1-1/2"-120	150
40	40 (mm)	80	65	85	42.5	120	147	56	308520-000	T1-40-40-120	6.4
40		00	70	400	0.5	400	407	50		17. 1. 1. 1. 1. 1.	0.0
40	40 (mm)	80	70	130	65	100	127	56	308521-000	T1-40-40-100-130	6.3
40	1-1/2" (inch)	00	-05	0.5	40.5	410	107		3H1518-000	T1-40-1-1/2"-140	70
40	40 (mm)	80	65	85	42.5	140	167	56	308518-000	T1-40-40-140	7.3
50	1-1/2" (inch)	00	00	00	40	400	407	04	3H1523-000	T1-50-1-1/2"-100	0
50	40 (mm)	90	80	96	48	100	137	64	308523-000	T1-50-40-100	9
50		90	80	96	48	400	427	70			
50	40 (mm)	90	80	96	48	100	137	70	308529-000	T1-50-40-100-P70	9
50	2" (inch)	00	00	00	40	100	407	0.4	311506-000	T1-50-2"-100	0.4
50	50 (mm)	90	80	96	48	100	137	64	309506-000	T1-50-50-100	8.4
50		90	80	96	48	100	137	70	-		8.4
50	50 (mm)	90	00	96	40	100	137	70	309522-000	T1-50-50-100-P70	0.4
50	2" (inch)	00	00	000	477	440	447	CA	311515-000	T1-50-2"-110	8.7
50	50 (mm)	90	82	96	48	110	147	64	309515-000	T1-50-50-110	0.7
50	2-1/2" (inch)	00	104	06	40	110	150	64	3J1503-000	T1-50-2-1/2"-110	11
50	60 (mm)	98	104	96	48	110	152	64	310503-000	T1-50-60-110	11





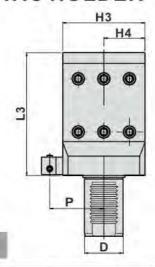


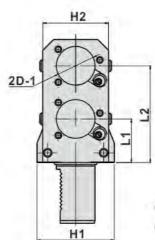
DIMENSIONS

External coolant supply Internal Coolant Supply

D DIN 69880	D1	Н1	Н2	нз	Н4	L1	L2	w	Code No.	Order No.	(Kg) Weight
16	16 (mm)	19.1	38	42	21	45	61	26	304512-000	T1-16-16-45-W26	1
20	1" (inch)		50	50	25	70	00	20	3F1515-000	T1-20-1"-70-W32	4.0
20	25 (mm)		50	50	25	70	90	32	306515-000	T1-20-25-70-W32	1.8
30	1-1/4" (inch)	65	52	62	31	65	90	35	3G1530-000	T1-30-1-1/4"-65-W35	2.4
30	32 (mm)	00	52	02	31	כמ	90	33	307549-000	T1-30-32 -65-W35	2.4
30	1-1/4" (inch)	65	52	62	31	85	108	35	3G1531-000	T1-30-1-1/4"-85-W35	3
30	32 (mm)	0.5	32	02	3.1	00	100	33	307546-000	T1-30-32-85-W35	3
30	1-1/4" (inch)	65	52	62	31	100	123	35	3G1532-000	T1-30-1-1/4"-100-W35	3.2
20	32 (mm)	00	52	02	31	100	125	35	307547-000	T1-30-32-100-W35	3.2
30	1-1/4" (inch)	65	52	62	31	120	143	35	3G1533-000	T1-30-1-1/4"-120-W35	3.9
30	32 (mm)	00	52	02	31	120	143	33	307548-000	T1-30-32 -120-W35	3.9
40	1-1/4" (inch)	80	65	85	42.5	85	112	48	3G1534-000	T1-40-1-1/4" -85-W48	5.2
40	32 (mm)	00	00	00	42.0	00	112	40	307529-000	T1-40-32-85-W48	5.2
40	1-1/2" (inch)	80	65	85	42.5	85	112	48	3H1524-000	T1-40-1-1/2" -85-W48	5
40	40 (mm)	00	0.5	65	42.0	00	112	40	308524-000	T1-40-40-85-W48	9
40	1-1/2" (inch)	80	65	85	42.5	100	127	48	3H1525-000	T1-40-1-1/2" -100-W48	5.7
40	40 (mm)	00	00	00	42.0	100	127	40	308525-000	T1-40-40-100-W48	9.7
40	1-1/2" (inch)	80	65	85	42.5	120	147	48	3H1528-000	T1-40-1-1/2"-120-W48	6.4
40	40 (mm)	00	00	00	42.0	120	(9.0	40	308540-000	T1-40-40-120-W48	0.4
50	1-1/2" (inch)	90	80	96	48	100	137	52	3H1535-000	T1-50-1-1/2"-100-W52	9
50	40 (mm)	-00	00	90	40	100	101	52	308548-000	T1-50-40-100-W52	9
50	2" (inch)	90	80	96	48	100	137	52	311519-000	T1-50-2"-100-W52	8.4
50	50 (mm)	00	00	50	40	100	101	JZ	309526-000	T1-50-50-100-W52	0.4
50	2" (inch)	90	82	96	48	110	147	52	311520-000	T1-50-2"-110-W52	8.7
50	50 (mm)		02	-30	40	110	141	52	309521-000	T1-50-50-110-W52	0.7
50	2-1/2" (inch)	98	104	96	48	110	152	52	3J1506-000	T1-50-2-1/2"-110-W52	11
50	60 (mm)	00	104	90	40	110	102	52	310505-000	T1-50-60-110-W52	1.6
60	2" (inch)	104	90	120	60	100	142	64	311507-000	T1-60-2"-100-W64	13
00	50 (mm)	104	30	120	,OU	100	142	04	309507-000	T1-60-50-100-W64	10
60	2" (inch)	108	94	120	60	135	177	64	311511-000	T1-60-2"-135-W64	16.2
00	50 (mm)	100	34	120	00	120	Tite	04	309508-000	T1-60-50-135-W64	10.2
60	2-1/2" (inch)	104	90	120	60	100	142	64	3J1502-000	T1-60-2-1/2"-100-W64	12
ΰú	60 (mm)	10-1	90	120	00	100	142	04	310502-000	T1-60-60-100-W64	LE.
60	2-1/2" (inch)	1/2	108	120	60	135	182	64	3J1501-000	T1-60-2-1/2"-135-W64	17
UU	60 (mm)	1	100	120	00	100	102	04	310501-000	T1-60-60-135-W64	1.1.





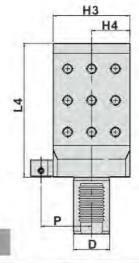


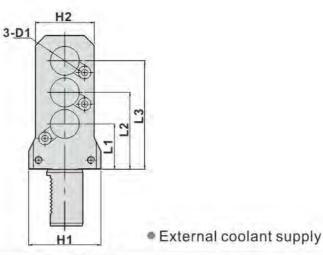
- External coolant supply
- Internal Coolant Supply

## **DIMENSIONS**

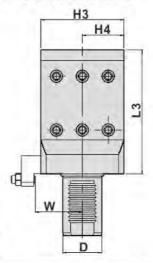
D	D1	Н1	Н2	нз	Н4	L1	L2	L3	P	Code No.	Order No.	(Kg) Weight
30	1" (inch) 25 (mm)	-	65	62	31	80	113	133	48	3F1514-000 306514-000	T1-30-2xB1"-113 T1-30-2xB25-113	3.9
30	1" (inch) 25 (mm)	3	65	62	31	85	137	158	48	3F1513-000 306513-000	T1-30-2xB1"-137 T1-30-2xB25-137	4.9
30	1-1/4" (inch) 32 (mm)	9	65	62	31	55	100	128	48	3G1525-000 307525-000	T1-30-2xB1-1/4"-100 T1-30-2xB32-100	3.7
40	1" (inch) 25 (mm)	80	65	85	42.5	85	120	146	56	3F1516-000 306516-000	T1-40-2xB1"-120 T1-40-2xB25-120	6.9
40	1-1/4" (inch) 32 (mm)	80	65	85	42.5	47	90	112	56	3G1526-000 307526-000	T1-40-2xB1-1/4"-90 T1-40-2xB32-90	5.1
40	1-1/2" (inch) 40 (mm)	80	65	85	42.5	45	100	127	56	3H1510-000 308510-000	T1-40-2xB1-1/2"-100 T1-40-2xB40-100	4.9
40	40 (mm)	80	65	85	42.5	65	120	147	56	308530-000	T1-40-2xB40-120	5.7

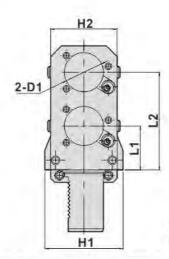
# **DIN 69880 STATIC HOLDER**





D	D1	Н1	Н2	нз	H4	L1	L2	L3	L4	Р	Code No.	Order No.	(Kg) Weight
20	1" (inch)	OF.	CE	60	24	40	05	420	140	40	3F1511-000	T1-30-3x1"	10
30	25 (mm)	65	65	62	31	42	85	128	148	48	306511-000	T1-30-3x25	4.6

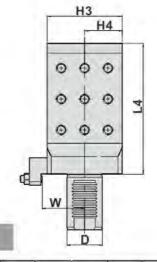


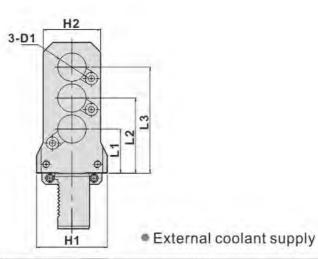


- External coolant supply
- Internal Coolant Supply

D	D1	Н1	Н2	нз	Н4	L1	L2	L3	w	Code No.	Order No.	(Kg) Weight
30	1" (inch) 25 (mm)	-	65	62	31	80	113	133	35	3F1531-000 306531-000	T1-30-2xB1"-113-W35 T1-30-2xB25-113-W35	3.9
30	1" (inch) 25 (mm)	1.0	65	62	31	85	137	158	35	3F1532-000 306532-000	T1-30-2xB1"-137-W35 T1-30-2xB25-137-W35	4.9
30	1-1/4" (inch) 32 (mm)	9	65	62	31	55	100	128	35	3G1535-000 307550-000		3.7
40	1" (inch) 25 (mm)	80	65	85	42.5	85	120	146	48	3F1534-000 306534-000	T1-40-2xB1"-120-W48 T1-40-2xB25-120-W48	6.9
40	1-1/4" (inch) 32 (mm)	80	65	85	42.5	47	90	112	48	3G1536-000 307551-000	T1-40-2xB1-1/4"-90-W48 T1-40-2xB32-90-W48	5.1
40	1-1/2" (inch) 40 (mm)	80	65	85	42.5	45	100	127	48	3H1536-000 308511-000	T1-40-2xB1-1/2"-100-W48 T1-40-2xB40-100-W48	4.9
40	40 (mm)	80	65	85	42.5	65	120	147	48	308549-000	T1-40-2xB40-120-W48	5.7

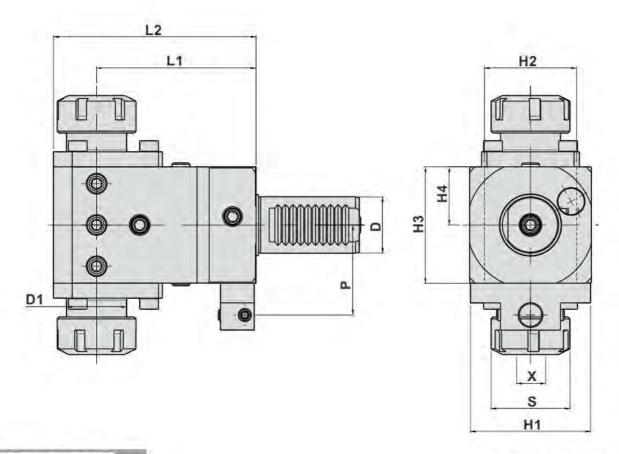
# **DIN 69880 STATIC HOLDER**





#### DIMENSIONS

D	D1	Н1	H2	НЗ	H4	L1	L2	L3	L4	W	Code No.	Order No.	(Kg) Weight
30	1" (inch)	65	65	62	31	42	85	128	148	35	3F1533-000 306533-000	T1-30-3x1"-W35 T1-30-3x25-W35	4.6



# DIMENSIONS

External coolant supply

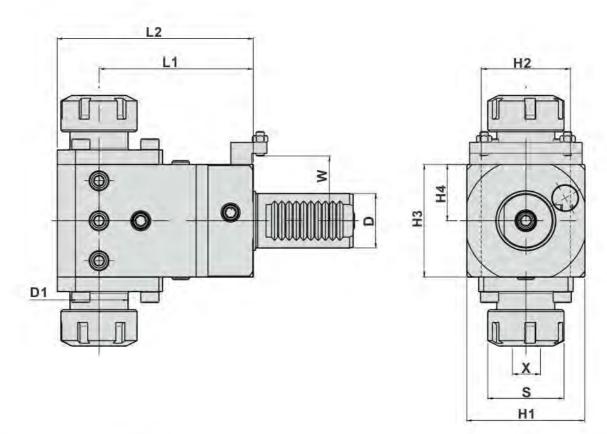
Evermore

D DIN 69880	D1	X Capacity	s	H1	H2	нз	H4	L1	L2	Р	Code No.	Order No.	(Kg) Weight
30	1-1/4" (inch) 32 (mm)	1-16 ER25	42	65	52	62	31	65	90	48	3G1514-000 307514-000	T1-30-1-1/4"-65-25x2 T1-30-32-65-25x2	3.9
30	1-1/4" (inch) 32 (mm)	1-16 ER25	42	65	52	62	31	85	108	48	3G1515-000 307515-000	T1-30-1-1/4" -85-25x2 T1-30-32-85-25x2	4.5
30	1-1/4" (inch) 32 (mm)	1-16 ER25	42	65	52	62	31	100	123	48	3G1516-000 307516-000	T1-30-1-1/4"-100-25x2 T1-30-32-100-25x2	4.7
30	1-1/4" (inch) 32 (mm)	1-16 ER25	42	65	52	62	31	120	143	48	3G1517-000 307517-000	T1-30-1-1/4"-120-25x2 T1-30-32-120-25x2	5.4
40	1-1/4" (inch) 32 (mm)	1-16 ER25	42	80	65	85	42.5	85	112	56	3G1518-000 307518-000	T1-40-1-1/4"-85-25x2 T1-40-32-85-25x2	6.7
40	1-1/2" (inch) 40 (mm)	2-20 ER32	50	80	65	85	42.5	85	112	56	3H1526-000 308526-000	T1-40-1-1/2"-85-32x2 T1-40-40-85-32x2	6.6
40	1-1/2" (inch) 40 (mm)	2-20 ER32	50	80	65	85	42.5	100	127	56	3H1527-000 308527-000	T1-40-1-1/2"-100-32x2 T1-40-40-100-32x2	7.2
40	40 (mm)	2-20 ER32	50	80	65	85	42.5	120	147	56	308531-000	T1-40-40-120-32x2	7.8





# **DIN 69880 STATIC HOLDER**



# DIMENSIONS

## External coolant supply

D DIN 69880	D1	X Capacity	s	Н1	Н2	нз	H4	L1	L2	w	Code No.	Order No.	(Kg) Weight
30	1-1/4" (inch)	1-16	42	65	52	62	31	65	90	35	3G1537-000	T1-30-1-1/4"-65-25x2-W35	3.9
30	32 (mm)	ER25	42	00	UZ	UZ	91	03	30	50	307552-000	T1-30-32-65-25x2-W35	0.5
30	1-1/4" (inch)	1-16	42	65	52	62	31	85	108	35	3G1538-000	T1-30-1-1/4" -85-25x2-W35	4.5
30	32 (mm)	ER25	42	00	52	02	91	03	100	33	307553-000	T1-30-32-85-25x2-W35	4.5
30	1-1/4" (inch)	1-16	42	65	52	62	31	100	123	35	3G1539-000	T1-30-1-1/4"-100-25x2-W35	4.7
30	32 (mm)	ER25	42	00	32	02	31	100	123	30	307554-000	T1-30-32-100-25x2-W35	4.7
20	1-1/4" (inch)	1-16	42	65	52	60	31	120	143	35	3G1540-000	T1-30-1-1/4"-120-25x2-W35	5.4
30	32 (mm)	ER25	42	00	32	62	31	120	143	33	307555-000	T1-30-32-120-25x2-W35	5.4
40	1-1/4" (inch)	1-16	42	80	65	85	42.5	85	112	48	3G1541-000	T1-40-1-1/4"-85-25x2-W48	6.7
40	32 (mm)	ER25	42	00	00	00	42.5	00	112	40	307556-000	T1-40-32-85-25x2-W48	0.7
40	1-1/2" (inch)	2-20	50	80	65	85	10 5	85	112	48	3H1537-000	T1-40-1-1/2"-85-32x2-W48	6.6
40	40 (mm)	ER32	50	00	00	00	42.5	00	112	40	308550-000	T1-40-40-85-32x2-W48	6.6
40	1-1/2" (inch)	2-20	50	80	65	OF	40.5	100	107	40	3H1538-000	T1-40-1-1/2"-100-32x2-W48	7.0
40	40 (mm)	ER32	50	00	00	85	42.5	100	127	48	308551-000	T1-40-40-100-32x2-W48	7.2
40	40 (mm)	2-20 ER32	50	80	65	85	42.5	120	147	48	308552-000	T1-40-40-120-32x2-W48	7.8

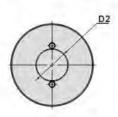


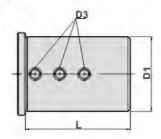
TYPE

RS-W

# **REDUCING SLEEVE**

# 固定刀座-刀套

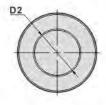


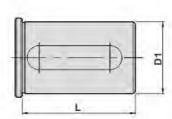


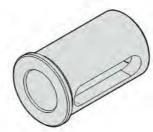




- For boring bar holder
- External coolant supply







RS

For boring bar holde

D1	D2	D3	L	Code No.	Order No.	FIG	(Kg)Weight
	6			A20061-000	E20-6		0.10
	8	Thread		A20081-000	E20-8	1	0.10
20	10	imeau	40	A20101-000	E20-10		0.09
	12			A20122-000	E20-12		0.07
	16			A20162-000	E20-16	- 2	0.04
	6			A25061-000	E25-6		0.18
	8			A25081-000	E25-8		0.18
	10	Thread		A25101-000	E25-10	1	0.16
25	12		50	A25121-000	E25-12	-1	0.15
	16	4-		A25162-000	E25-16		0.12
	20			A25202-000	E25-20	2	0.08
	6			A32061-000	E32-6		0.35
	8	22 /05		A32081-000	E32-8		0.35
	10	Thread		A32101-000	E32-10	1	0.34
32	12		60	A32121-000	E32-12		0.33
	16		-	A32162-000	E32-16		0.28
	20	-		A32202-000	E32-20	2	0.23
	25			A32252-000	E32-25		0.16
	6			A40061-000	E40-6		0.64
	8	40000		A40081-000	E40-8	-1	0.61
	10	Thread		A40101-000	E40-10	1	0.59
74	12	1	70	A40121-000	E40-12		0.55
40	16		70	A40162-000	E40-16		0.56
	20			A40202-000	E40-20	1 16	0.51
	25			A40252-000	E40-25	- 2	0.42
	32			A40322-000	E40-32		0.26
	8			A50081-000	E50-8		1.20
	10			A50101-000	E50-10		1.10
	12	760000		A50121-000	E50-12		1.10
2.70	16	Thread		A50161-000	E50-16	1	1.10
50	20		80	A50201-000	E50-20		1.00
	25			A50251-000	E50-25		0.90
	32			A50322-000	E50-32		0.71
	40			A50402-000	E50-40	2	0.44
	12			A60121-000	E60-12		2.30
	16			A60161-000	E60-16	1	2.20
	20	Thread		A60201-000	E60-20	1	2.10
60	25		307	A60251-000	E60-25		1.90
	32		107	A60321-000	E60-32		1.70
	40			A60402-000	E60-40		1.30
	50	1 - 1		A60502-000	E60-50	2	0.76



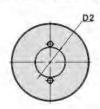


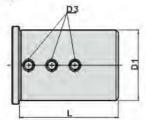
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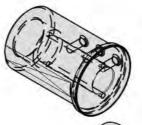
RS

# **REDUCING SLEEVE**

# 固定刀座-刀套

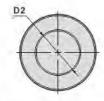


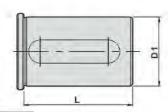






- For boring bar holder
- External coolant supply







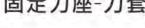
RS

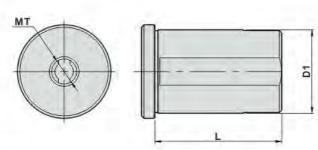
For boring bar holde

D1	D2	D3	L	Code No.	Order No.	FIG	(Kg)Weigh
	1/4"			AE1X11-000	E3/4"-1/4"		0.10
	5/16"	Thread		AE1A11-000	E3/4"-5/16"	1	0.10
3/4"	3/8"	1,11000	40	AE1B11-000	E3/4"-3/8"		0.09
	1/2"	12		AE1C12-000	E3/4"-1/2"		0.07
	5/8"			AE1D12-000	E3/4"-5/8"	2	0.05
	1/4"			AF1X11-000	E1"-1/4"		0.19
	5/16"			AF1A11-000	E1"-5/16"		0.19
	3/8"	Thread	50	AF1B11-000	E1"-3/8"	1	0.19
1	1/2"		50	AF1C11-000	E1"-1/2"		0.16
	5/8"			AF1D12-000	E1"-5/8"		0.13
	3/4"	13.		AF1E12-000	E1"-3/4"	2	0.09
	1/4"			AG1X11-000	E1-1/4"-1/4"	-	0.36
	5/16*			AG1A11-000	E1-1/4"-5/16"		0.36
	3/8"	Thread		AG1B11-000	E1-1/4"-3/8"	1	0.32
1-1/4"	1/2"		60	AG1C11-000	E1-1/4"-1/2"		0.31
	5/8"		00	AG1D12-000	E1-1/4"-5/8"		0.28
	3/4"	-		AG1E12-000	E1-1/4"-3/4"	2	0.24
	1"			AG1F12-000	E1-1/4"-1"		0.14
	1/4"			AH1X11-000	E1-1/2"-1/4"	1	0.61
	5/16"	1		AH1A11-000	E1-1/2"-5/16"		0.59
	3/8"	Thread		AH1B11-000	E1-1/2"-3/8"	1	0.58
	1/2"			AH1C11-000	E1-1/2"-1/2"		0.56
1-1/2"	5/8"		70	AH1D12-000	E1-1/2"-5/8"		0.55
	3/4"			AH1E12-000	E1-1/2"-3/4"		0.50
	1"	-		AH1F12-000	E1-1/2"-1"	2	0.45
	1-1/4"			AH1G12-000	E1-1/2"-1-1/4"		0.21
	5/16"			Al1A11-000	E2"-5/16"		1.30
	3/8"			AI1B11-000	E2"-3/8"	1	1.20
	1/2"			AI1C11-000	E2"-1/2"		1.20
	5/8"	Thread		AI1D11-000	E2"-5/8"	1	1.10
2"	3/4"	-	80	The second secon	E2"-3/4"	-	
	1"	-		AI1E11-000 AI1F11-000	E2"-1"	-	1.10
		-				-	+
	1-1/4"	100		AI1G12-000 AI1H12-000	E2"-1-1/4" E2"-1-1/2"	2	0.80
					2007 F. C. W. W. C. W. W.		
	1/2" 5/8"			AJ1C11-000	E2-1/2"-1/2"	-	2.60
	3/4"	Thread		AJ1D11-000	E2-1/2"-5/8"	1	
2-1/2"	1"	Timead		AJ1E11-000	E2-1/2"-3/4"	,	2.40
2-1/2	1-1/4"		107	AJ1F11-000	E2-1/2"-1"	-	2.20
				AJ1G11-000	E2-1/2"-1-1/4"		
	1-1/2"			AJ1H12-000	E2-1/2"-1-1/2"	2	1.80
	1			AJ1112-000	E2-1/2"-2"	-	1.10
	1/2"	-		AL1C11-000	E3"-1/2"		3.80
	5/8"			AL1D11-000	E3"-5/8"	-	3.80
	3/4"	Thread		AL1E11-000	E3"-3/4"		3.70
3"	1"	3405.349	107	AL1F11-000	E3"-1"	1	3.50
	1-1/4"		107	AL1G11-000	E3"-1-1/4"	-	3.20
	1-1/2"			AL1H11-000	E3"-1-1/2"		3.00
	2"	42		AK1112-000	E3"-2"	2	2.20
	2-1/2"			AK1J12-000	E3"-2-1/2"	177	1.30



# REDUCING SLEEVE 固定刀座-刀套







 Tool holders with morse taper according to DIN 228

# DIMENSIONS (mm)

D1	L.	MT	Code No.	Order No.	(Kg)Weight
25	50	MT1	A25MT1-000	E25-MT1	0.22
23	50	MT2	A25MT2-000	E25-MT2	0.19
	.60	MT1	A32MT1-000	E32-MT1	0.42
32	60	MT2	A32MT2-000	E32-MT2	0.40
	60	MT3	A32MT3-000	E32-MT3	0.41
	70	MT1	A40MT1-000	E40-MT1	0.72
10	70	MT2	A40MT2-000	E40-MT2	0.66
40	70	MT3	A40MT3-000	E40-MT3	0.74
	70	MT4	A40MT4-000	E40-MT4	0.68
	76	MT2	A50MT2-000	E50-MT2	1.40
	97	MT3	A50MT3-000	E50-MT3	1.50
50	107	MT4	A50MT4-000	E50-MT4	1.60
	125	MT5	A50MT5-000	E50-MT5	0.95
	76	MT2	A60MT2-000	E60-MT2	1.90
60	97	MT3	A60MT3-000	E60-MT3	2.20
00	107	MT4	A60MT4-000	E60-MT4	2.30
	125	MT5	A60MT5-000	E60-MT5	2.10

# DIMENSIONS

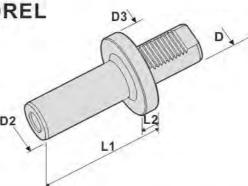
(inch)

D1	L	MT	Code No.	Order No.	(Kg)Weight
1"	50mm	MT1	AF1MT1-000	E1"-MT1	0.22
7	50mm	MT2	AF1MT2-000	E1"-MT2	0.19
	60mm	MT1	AG1MT1-000	E1-1/4"-MT1	0.42
1-1/4"	60mm	MT2	AG1MT2-000	E1-1/4"-MT2	0.40
	60mm	MT3	AG1MT3-000	E1-1/4"-MT3	0.41
	70mm	MT1	AH1MT1-000	E1-1/2"-MT1	0.72
7.1744	70mm	MT2	AH1MT2-000	E1-1/2"-MT2	0.66
1-1/2"	70mm	MT3	AH1MT3-000	E1-1/2"-MT3	0.74
	70mm	MT4	AH1MT4-000	E1-1/2"-MT4	0.68
	76mm	MT2	AI1MT2-000	E2"-MT2	1.40
-0.0	97mm	MT3	AI1MT3-000	E2"-MT3	1.50
2"	107mm	MT4	AI1MT4-000	E2"-MT4	1.60
	125mm	MT5	AI1MT5-000	E2"-MT5	0.95
	76mm	MT2	AK1MT2-000	E3"-MT2	1.90
3"	97mm	MT3	AK1MT3-000	E3"-MT3	2.20
3	107mm	MT4	AK1MT4-000	E3"-MT4	2.30
	125mm	MT5	AK1MT5-000	E3"-MT5	2.10



**DIN 69880 TEST MANDREL** 

校正棒



## DIMENSIONS

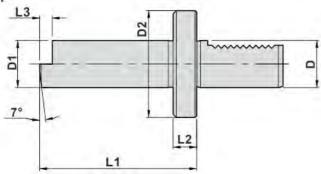
D DIN 69880	D2	D3	L1	L2	Code No.	Order No.
16	30	40	120	15	TB1161-114	TB1-16-120
20	40	50	150	15	TB1201-114	TB1-20-150
25	40	58	150	15	TB1251-114	TB1-25-150
30	30	68	115	15	TB1301-114	TB1-30-115
30	40	68	200	15	TB1302-114	TB1-30-200
40	40	83	115	15	TB1401-114	TB1-40-115
40	40	83	150	15	TB1402-114	TB1-40-150
40	40	83	200	15	TB1403-114	TB1-40-200
50	50	98	115	15	TB1501-114	TB1-50-115
50	40	98	150	15	TB1502-114	TB1-50-150
50	40	98	200	15	TB1503-114	TB1-50-200
60	60	123	180	15	TB1601-114	TB1-60-180
60	40	123	200	15	TB1602-114	TB1-60-200

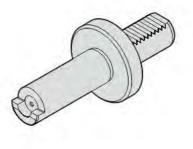
# **DIN 69880 TEST MANDREL**

TYPE

TB2

校正棒





D DIN 69880	D1	D2	L1	L2	L3	Code No.	Order No.
20	30	50	100	15	8	TB2201-114	TB2-20-100
30	30	68	100	15	8	TB2301-114	TB2-30-100
40	40	83	100	15	8	TB2401-114	TB2-40-100
50	80	98	100	20	8	TB2501-114	TB2-50-100





# RS-WE

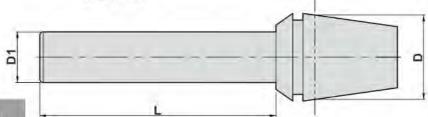
- For Boring Bar holder
- External Coolant Supply

#### **DIMENSIONS**

D		L1	L2	D1	Code No.	Order No.
		00	00	1/4"	AG1X15-000	WE1-1/4"-1/4"
		60mm	20mm	6	A32065-000	WE32-6
				5/16"	AG1A15-000 WE1-1/4	WE1-1/4"-5/16'
20/4.4/4"\	mm/inah)			8	A32085-000	WE32-8
32(1-1/4")	mm(inch)	00	25	3/8"	AG1B15-000	WE1-1/4"-3/8"
		60mm	35mm	10	A32105-000	WE1-1/4"-1/4" WE32-6 WE1-1/4"-5/16" WE32-8 WE1-1/4"-3/8" WE32-10 WE1-1/4"-1/2" WE32-12 WE1-1/2"-1/4" WE40-6 WE1-1/2"-5/16" WE40-8 WE1-1/2"-3/8" WE40-10 WE1-1/2"-1/2"
				1/2"	AG1C15-000	
				12	A32125-000	
		70	20	1/4"	AH1X15-000	WE1-1/2"-1/4"
		70mm	20mm	6	A40065-000	WE40-6
				5/16"	AH1A15-000	WE1-1/2"-5/16'
10/1 1/011	man (im a la )			8	A40085-000	WE40-8
40(1-1/2)	mm(inch)	70	25	3/8"	AH1B15-000	WE1-1/2"-3/8"
		70mm	35mm	10	A40105-000	WE40-10
0(1-1/2")				1/2"	AH1C15-000	WE1-1/2"-1/2"
				12	A40125-000	WE40-12

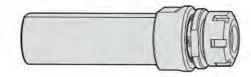
# TESTING BAR 測試棒

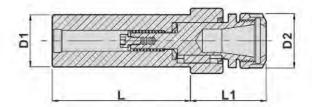
PATENT NO. M282761 專利號碼 NO. M282761



D	D1	L	Code No.	Order No.
ER11	7	60	ER1101-115	ER11-60L
ER16	11	60	ER1601-115	ER16-60L
ER20	13	60	ER2001-115	ER20-60L
R25	15	65	ER2501-115	ER25-65L
R32	18	80	ER3201-115	ER32-80L
ER40	18	80	ER4001-115	ER40-80L
R50	25	100	ER5001-115	ER50-100L







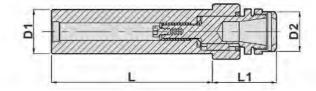
## DIMENSIONS

X Capacity	D1	L	D2	L1	Code No.	Order No.
ER16	20	80	30	53.5	TSC20B-000	SL20-WER16-80
ER20	20	80	35	54	TSC20C-000	SL20-WER20-80
ER16	25	80	30	53.5	TSC25B-000	SL25-WER16-80
ER20	25	80	35	54	TSC25C-000	SL25-WER20-80
ER25	25	80	42	66	TSC25D-000	SL25-WER25-80
ER20	32	80	35	54	TSC32C-000	SL32-WER20-80
ER25	32	80	42	66	TSC32D-000	SL32-WER25-80
ER32	32	80	50	68	TSC32E-000	SL32-WER32-80
ER25	40	80	42	66	TSC40D-000	SL40-WER25-80
ER32	40	80	50	68	TSC40E-000	SL40-WER32-80
ER32	50	80	50	68	TSC50E-000	SL50-WER32-80

# WER TAPPING CHUCK 直柄攻牙刀柄



TYPE WER-BC



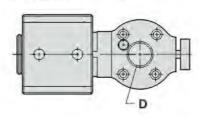
X Capacity	D1	L	D2	L1	Code No.	Order No.
ER16	20	130	30	53.5	TBC20B-000	BC20-WER16-130
ER20	20	130	35	54	TBC20C-000	BC20-WER20-130
ER16	25	130	30	53.5	TBC25B-000	BC25-WER16-130
ER20	25	130	35	54	TBC25C-000	BC25-WER20-130
ER25	25	130	42	66	TBC25D-000	BC25-WER25-130
ER25	32	130	42	66	TBC32D-000	BC32-WER25-130
ER32	32	130	50	68	TBC32E-000	BC32-WER32-130

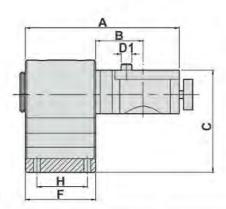
TYPE

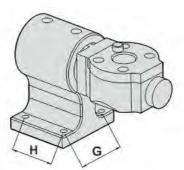
DIN

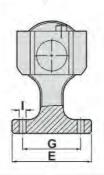
# TOOL LOCKING FIXTURE

鎖刀器







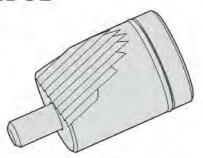


## DIMENSIONS

D	D1	A	В	С	E	F	G	н	1	Code No.	Order No.	(Kg) Weight
30	14	201	62	134	104	92	76	66	9	VDI30A-000	VDI-30/L	10.2
40	14	201	62	134	104	92	76	66	9	VDI40A-000	VDI-40/L	10

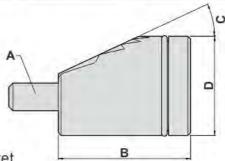
**VDI WEDGE** 

緊迫塊



TYPE

VDI

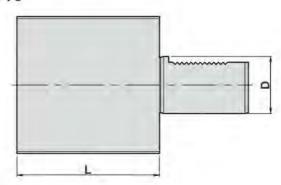


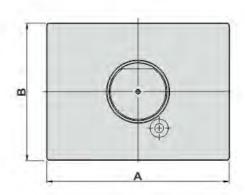
DIMENSIONS

Wedge for toa turret

A	В	С	D	Code No.	Order No.
M5	22	20	16	VDI161-000	VDI16/W-16
M6	28	20	18	VDI201-000	VDI20/W-18
M8	34	20	22	VDI301-000	VDI30/W-22
M10	42	20	28	VDI401-000	VDI40/W-28
M10	44	20	40	VDI402-000	VDI40/W-40
M10	48	25	36	VDI501-000	VDI50/W-36
M12	56	25	50	VDI502-000	VDI50/W-50
M12	54	25	42	VDI601-000	VDI60/W-42
M16	70	25	50	VDI801-000	VDI80/W-50

# VDI MATERIAL VDI 素材

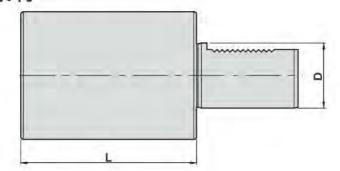


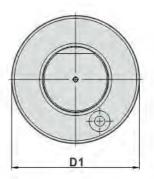


# DIMENSIONS

D DIN 69880	Α	В	L	Code No.	Order No.	(Kg) Weigh
20	100	60	65	0A1200-000	A1-20-65	3.2
30	100	76	85	0A1300-000	A1-30-85	5.4
40	151	96	100	0A1400-000	A1-40-100	11.9
50	160	120	125	0A1500-000	A1-50-125	20
50	160	120	140	0A1501-000	A1-50-140	22.2
60	165	125	160	0A1600-000	A1-60-160	27.8

# VDI MATERIAL VDI 素材

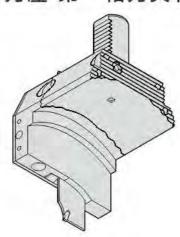


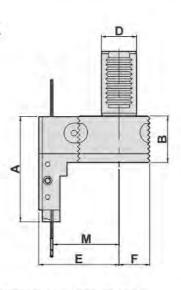


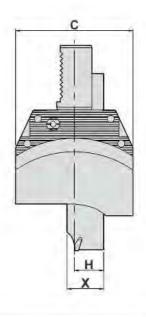
D DIN 69880	D1	L	Code No.	Order No.	(Kg) Weight	
20	50	70	0A2200-000	A2-20-70	1.2	
30	68	100	0A2300-000	A2-30-100	3.1	
30	68	240	0A2301-000	A2-30-240	7.1	
40	83	120	0A2400-000	A2-40-120	5.7	
40	83	320	0A2401-000	A2-40-320	14	
50	98	135	0A2500-000	A2-50-135	9.1	
50	98	400	0A2501-000	A2-50-400	24.7	
60	123	150	0A2600-000	A2-60-150	16	
60	123	480	0A2601-000	A2-60-480	46.5	



切斷刀座-第一軸刀尖朝上







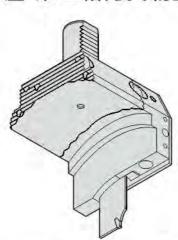
## DIMENSIONS

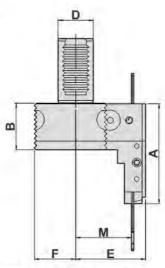
External coolant supply

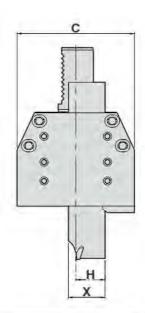
D DIN 69880	A	В	С	E	F	н	х	M	Code No.	Order No.	(Kg) Weight
30	85.5	39.5	100	68.3	26.2	20 (mm)	26	56.3	705501-000	V30-1ST-R20-L-CUTTER	2.5
40	85.5	39.5	100	68.3	26.2	25 (mm)	31.9	56.3	706501-000	V40-1ST-R25-L-CUTTER	2.9

## **CUTTING HOLDER**

切斷刀座-第二軸刀尖朝上





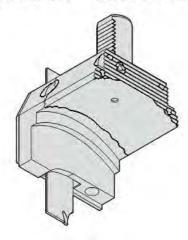


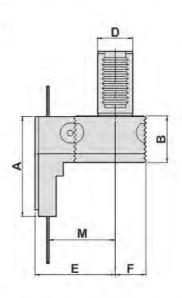
DIMENSIONS External coolant supply

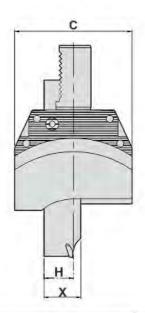
D DIN 69880	A	В	С	E	F	H	x	M	Code No.	Order No.	(Kg) Weight
30	85.5	39.5	100	59.5	35	20 (mm)	26	47.5	705502-000	V30-2HD-R20-R-CUTTER	2.5
40	85.5	39.5	100	59.5	35	25 (mm)	31.9	47.5	706502-000	V40-2HD-R25-R-CUTTER	2.9



切斷刀座-第一軸刀尖朝下





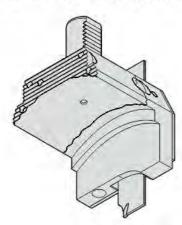


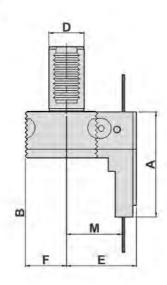
## DIMENSIONS

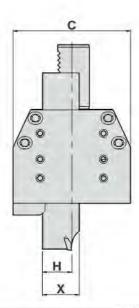
D DIN 69880	А	В	С	E	F	н	х	M	Code No.	Order No.	(Kg) Weight
30	85.5	39.5	100	68.3	26.2	20 (mm)	26	56.3	705503-000	V30-1ST-R20-R-CUTTER	2.5
40	85.5	39.5	100	68.3	26.2	25 (mm)	31.9	56.3	706503-000	V40-1ST-R25-R-CUTTER	2.9

# **CUTTING HOLDER**

切斷刀座-第二軸刀尖朝下







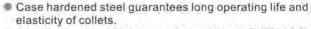
D DIN 69880	Α	В	С	E	F	н	x	М	Code No.	Order No.	(Kg) Weight
30	85.5	39.5	100	59.5	35	20 (mm)	26	47.5	705504-000	V30-2HD-R20-L-CUTTER	2.5
40	85.5	39.5	100	59.5	35	25 (mm)	31.9	47.5	706504-000	V40-2HD-R25-L-CUTTER	2.9



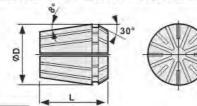


#### **ER SPRING COLLET CHUCK SYSTEM** ER 筒夾

材質採用高彈性鋼材,確保長久的使用壽命;
 全部筒夾都經過嚴格的精度檢測,符合DIN6499標準, 用於夾持高精度刀具;
 ER 16,20,32,40有1mm的夾持範圍:ER 11有0.5mm的夾持範圍



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

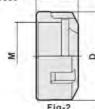
#### DIMENSIONS

E	R8	EF	216	ER	25	ER	32	ER	40	ER	50
Order No.	Range	Order No.	Range	Order No.	Range	Order No.	Range	Order No.	Range	Order No.	Range
34010	1.0-0.5	34201	1.0-0.5	34402	2-1	34503	3-2	34604	4-3	34712	12-10
34015	1.5-1.0	34202	2.0-1.0	34403	3-2	34504	4-3	34605	5-4	34714	14-12
34020	2.0-1.5	34203	3-2	34404	4-3	34505	5-4	34606	6-5	34716	16-14
34025	2.5-2.0	34204	4-3	34405	5-4	34506	6-5	34607	7-6	34718	18-16
34030	3.0-2.5	34205	5-4	34406	6-5	34507	7-6	34608	8-7	34720	20-18
34035	3.5-3.0	34206	6-5	34407	7-6	34508	8-7	34609	9-8	34722	22-20
34040	4.0-3.5	34207	7-6	34408	8-7	34509	9-8	34610	10-9	34724	24-22
34045	4.5-4.0	34208	8-7	34409	9-8	34510	10-9	34611	11-10	34726	26-24
34050	5.0-4.5	34209	9-8	34410	10-9	34511	11-10	34612	12-11	34728	28-26
		34210	10-9	34411	11-10	34512	12-11	34613	13-12	34730	30-28
				34412	12-11	34513	13-12	34614	14-13	34732	32-30
ER	11	EF	220	34413	13-12	34514	14-13	34615	15-14	34734	34-32
Order No.	Range	Order No.	Range	34414	14-13	34515	15-14	34616	16-15		
34110	1.0-0.5	34302	2-1	34415	15-14	34516	16-15	34617	17-16		
34120	2.0-1.5	34303	3-2	34416	16-15	34517	17-16	34618	18-17		
34130	3.0-2.5	34304	4-3			34518	18-17	34619	19-18		
34135	3.5-3.0	34305	5-4			34519	19-18	34620	20-19		
34140	4.0-3.5	34306	6-5			34520	20-19	34621	21-20		
34145	4.5-4.0	34307	7-6					34622	22-21		
34150	5.0-4.5	34308	8-7					34623	23-22		
34155	5.5-5.0	34309	9-8					34624	24-23		
34160	6.0-5.5	34310	10-9					34625	25-24		
34165	6.5-6.0	34311	11-10					34626	26-25		
34170	7.0-6.5	34312	12-11	+							
		34313	13-12			-				4	

#### **ER SPRING COLLET CHUCK SYSTEM CLAMPING NUT**

ER螺帽







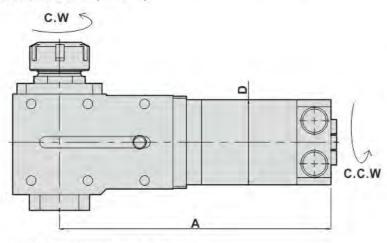
Order No.	TYPE	Fig	D	В	M
14748	CN-ER11	- 1 -	19	11.5	M14x0.75
14750	CN-ER16	1	28	17.5	M22x1,5
14752	CN-ER20	1	35	19	M25x1.5
14754	CN-ER25	2	42	20	M32x1.5
14756	CN-ER32	2	50	22.5	M40x1.5
14758	CN-ER40	2	63	22.5	M50x1.5
14760	CN-ER50	2	78	35	M64x2.0

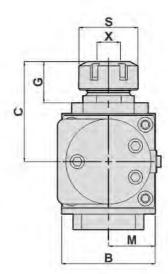




## RADIAL MILLING AND DRILLING HEAD

徑向鑽銑刀座(90°)





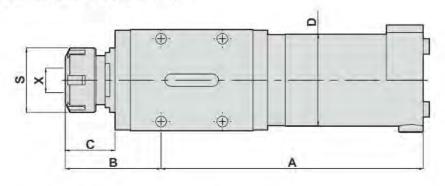
- To be used for collet DIN 6499
- Collet is not included

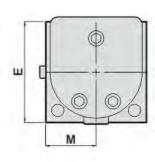
#### DIMENSIONS

D	X Capacity	s	Maximum R.P.M	Α	В	С	G	М	Code No.	Order No.	(Kg) Weight
60	1-16 ER25	42	4000	192	66	70.5	29	33	266101-000	DF66-ER25	6.5

## AXIAL MILLING AND DRILLING HEAD

軸向鑽銑刀座(0°)





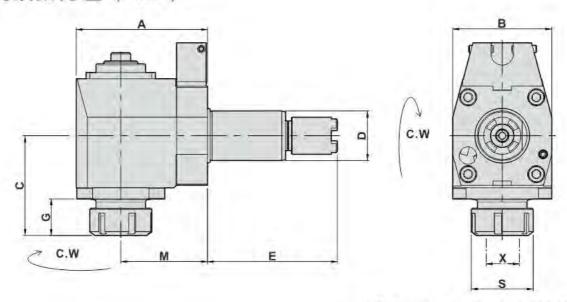
- To be used for collet DIN 6499
- Collet is not included

D	X Capacity	S	Maximum R.P.M	Α	В	С	E	М	Code No.	Order No.	(Kg) Weight
60	1-16 ER25	42	6000	171	62.5	32	66	33	166101-000	DA66-ER25	5.3





徑向鑽銑刀座 (90°)



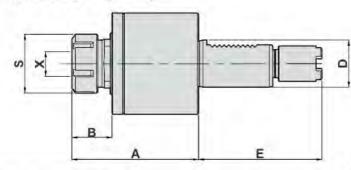
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

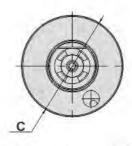
Models	D	X Capacity	s	Maximum R.P.M	Α	В	С	G	М	E	Code No.	Order No.	(Kg) Weight
SL-20/TL-15						- 1			-	104.85	240B61-000	HAAS-FL40-32-70-104	6.5
SL-30/TL-25								- 1		E de			
SL-40/ST-10	40	2-20 ER32	50	4000	106	80	85	34	70	117.55	240B62-000	HAAS-FL40-32-70-117	6.6
ST-20 ST-30				7.7						1			
SL-40										130 35	240B63-000	HAAS-FI 40-32-70-130	6.6

# **AXIAL MILLING AND DRILLING HEAD**

軸向鑽銑刀座(0°)

DIMENSIONS



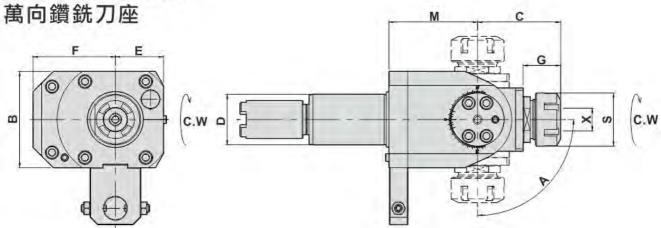


- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

Models	D	X Capacity	s	Maximum R.P.M	A	В	С	Е	Code No.	Order No.	(Kg) Weight
SL-20/TL-15				1,77				104.85	140B01-000	HAAS-DA40-32-104	4
SL-30/TL-25 SL-40/ST-10 ST-20 ST-30	40	2-20 ER32	50	6000	109	34	86	117.55	140B02-000	HAAS-DA40-32-117	4.1
SL-40								130.35	140B03-000	HAAS-DA40-32-130	4.1







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

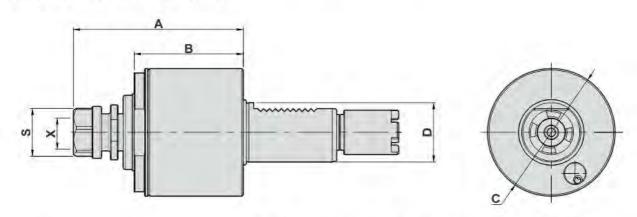
#### DIMENSIONS

DIMENSIONS

D DIN 69880	X Capacity	Maximum R.P.M	s	A	В	С	E	F	G	M	Code No.	Order No.	(Kg) Weight
40	1-16 ER25	4000	42	±90°	76	66	38	65	29.5	70	140B05-000	HAAS-DA40-25B-117	5.4
40	2-20 ER32	4000	50	±90°	76	89	38	65	52.5	70	140B06-000	HAAS-DA40-32B-117	5.6

# **AXIAL DRILLING AND MILLING HEAD**

軸向彈性攻牙刀座(0°)



- To be used for cutter arbor according to DIN 6358
- External coolant supply

D DIN 69880	X Capacity	Maximum R.P.M	s	i	A	В	С	Code No.	Order No.	(Kg) Weight
40	1-13 ER20	3000	35	1:1	114.5	74.5	86	140B04-000	HAAS-TDA40-20-104	4

