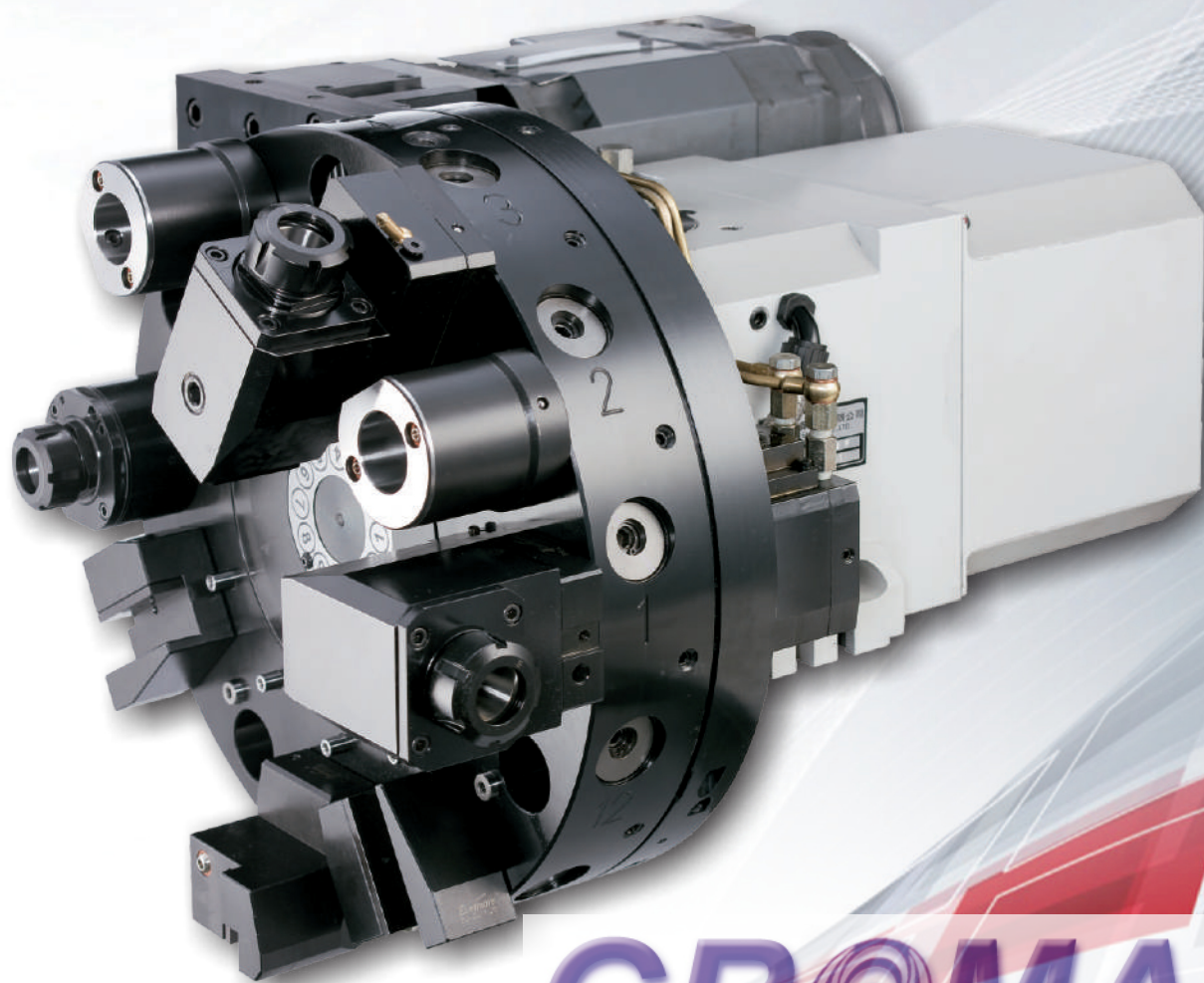


*Evermore*<sup>®</sup>



**GR©MAX**

**歐系車銑複合刀座**

**VDI TOOL HOLDERS**

**ROTARY & STATIC TOOL HOLDERS**

# Index

*Evermore*<sup>®</sup>  
GROMAX

VDI DIN 1809 A

VDI DIN 5480 B

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 H

VDI DIN 69880 HAAS I



**PAT.**

**DGB60-ECK5**

**Adjustment accuracy:  $\varnothing 0.001\text{mm}$**

## DGB 數位顯示鏜刀頭 DGB Digital Boring head DGB デジタルディスプレイボーリングヘッド

- 最大ストローク : 3.5mm
- 最小目盛 :  $\varnothing 0.001\text{mm}$
- ボーリング範囲 :  $\varnothing 3\text{-}208$   
 $\varnothing 4\text{-}114$  ( 外径ボーリング )
- 最高回転速度 : 12000r/min
- 防水等級 : IP67
- クーラント最大圧力 : 4MPa

デジタルディスプレイにより、ツールセッタは必要ありません。  
ストロークを直接調整でき、すべての調整プロセスが非常にシンプルで簡単になります。

### ■ 特色 :

- 簡単、方便、直観的検測調整量
- 高精度
- 縮短調整時間

### ■ 主要機能 :

- 最大調節量 : 3.5mm
- 最小顯示値 :  $\varnothing 0.001$
- 鏜孔範圍 :  $\varnothing 3\text{-}208$ ,  $\varnothing 4\text{-}114$ (外鏜)
- 最高轉速 : 12000r/min
- 防水等級 : IP67
- 最大冷卻液壓力 : 4MPa

### ■ Feature:

- Directly detect the adjustment value.
- High Accuracy
- Adjustment process becomes quite simple and intuitive.

### ■ Major Specification:

- Max Regulated quantity: 3.5mm
- Min display value:  $\varnothing 0.001$
- Boring range:  $\varnothing 3\text{-}208$ ,  $\varnothing 4\text{-}114$
- Max speed: 12000r/min
- Waterproof class: IP 67
- Max coolant pressure: 4MPa



## HSK-MODULAR TOOLING SYSTEM

Adopt modular design, integral tool holder in the past, if the cutting head is broken, the whole tool will be useless. Modular tooling system, if cutting head is broken and the tool holder is not. Replace a new cutting head and the tool holder can be used continuously. The tool holder can assemble different cutting heads to reduce the cost. Reduce tool change time. Add the tool magazine capacity. And Reduce cost and improve efficiency. Tool holders always have internal coolant and correct coolant direction to the insert tip.

### ■ Feature:

- One modular tool holder can assemble four different cutting heads at same time.
- It may satisfy users different demand, such as rough turning, fine turning, grooving, threading and different requirements.
- Use modular tool adaptor may help you to save space in the tool magazine and you will spend less time changing tools.

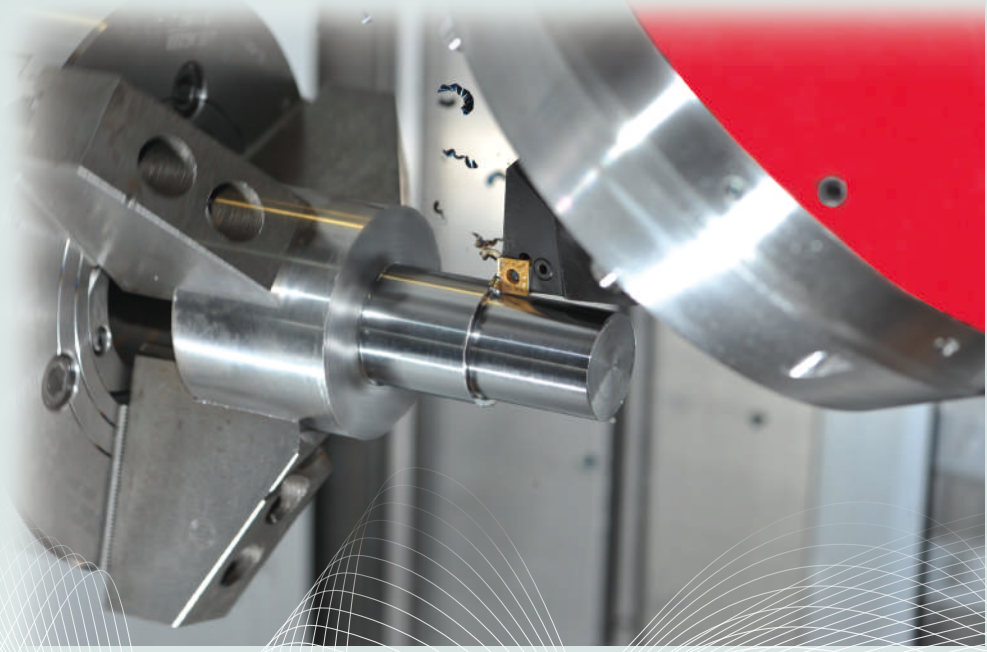
## 複合加工機（モジュール化） HSK ツーリングシステム

モジュール化された設計によりヘッドを自由に交換できます。ツールが衝撃を受けてもホルダ本体は破損しにくく、ヘッドを交換すれば引き続き使用できます。逆に一体式構造の場合はヘッドが破損するだけで、ツールすべてが使用できなくなります。モジュール化設計は異なるタイプのヘッドに交換するだけで、粗加工、仕上げ加工、溝切り、ねじ切りなど異なる旋盤加工が可能です。非常に便利で実用的な機能により生産コストを大幅にカットすることができます。センタークーラント供給設計はツール先端を効果的かつダイレクトに冷却し、旋盤加工時に発生する熱量とチップ磨耗を低減することにより、チップの使用寿命を延長します。

### ■ 特徴：

- 一つのホルダに用途の異なる四種類のモジュール化ヘッドを装着できます。
- 一回で粗加工、仕上げ加工、溝切り、ねじ切りなど異なる要求を満たせます。
- 一つのポジションが完成した後に、ATCでツール交換する必要はありません。機械主軸を90°の倍数で回転させるだけで、異なるヘッドで加工することができます。それにより加工時間とツール交換時間を短縮することができ、ツールマガジンの本数制限の問題を解決し、生産コストを効果的に低減します。
- 特殊設計されたツールは高剛性・高精度を保ち、自由な組合せと素早い使用を実現します。

**PSC系列產品 高精度，高鋼性，高轉速！！**  
**PSC High- Rigid, High- Precision, High- Efficiency!!**



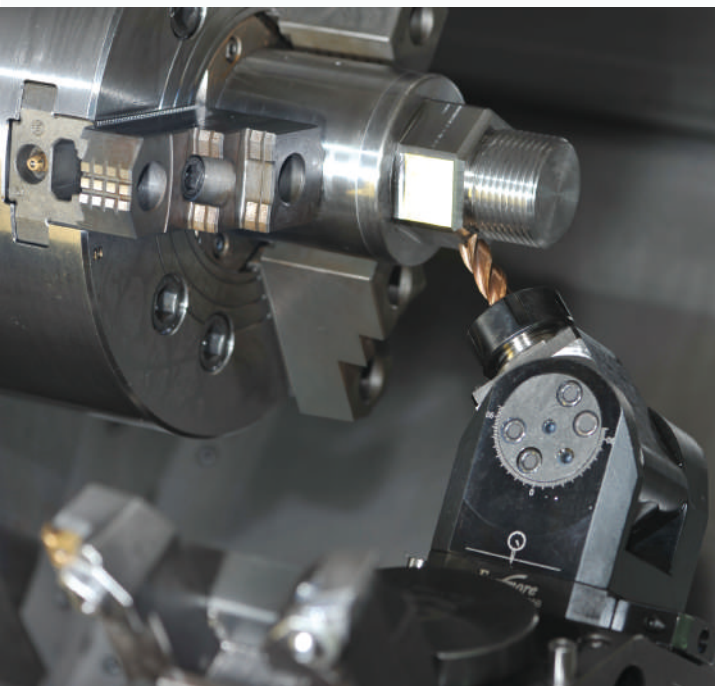
## 車銑複合加工高精度(模組化)刀柄 PSC POLYGON-SHANK TOOLING SYSTEM 複合加工機 (モジュール化) PSC ツーリングシステム

### ■ 產品特色：

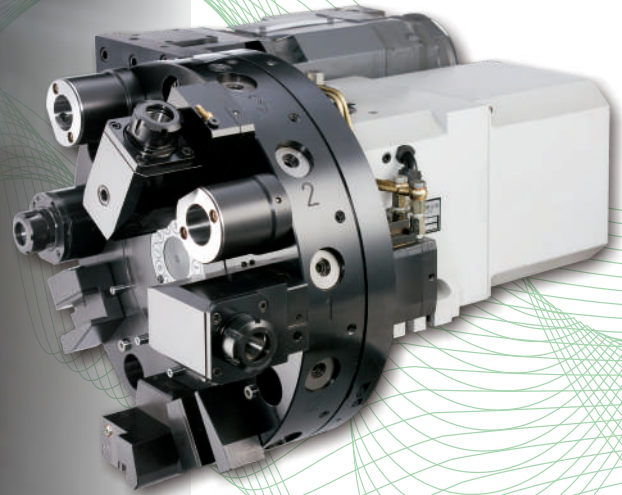
- PSC 模組化刀具系統能提高生產效率，可滿足更多複雜加工的需要。
- 刀頭分體設計，當刀頭損壞時，無需整支報廢，更換刀頭即可。
- 減少換刀時間
- 節省刀具庫空間
- 降低刀具成本，一把刀具代替多把刀具。

### ■ Feature:

- PSC modular design improves production efficiency.
- Sub-body design. If cutting head is broken, and the tool holder is not. Only replace a new cutting head, and the tool holder can be used continuously.
- It may satisfy users different demand, such as rough turning, fine turning, grooving, threading, drilling, and different requirements.
- Saving the capacity of the tool magazine.
- Spend less time changing tools.
- Reduce cost and improve efficiency.



## VDI 車銑複合動力刀座 VDI LIVE TOOLING SYSTEM VDI 回轉工具

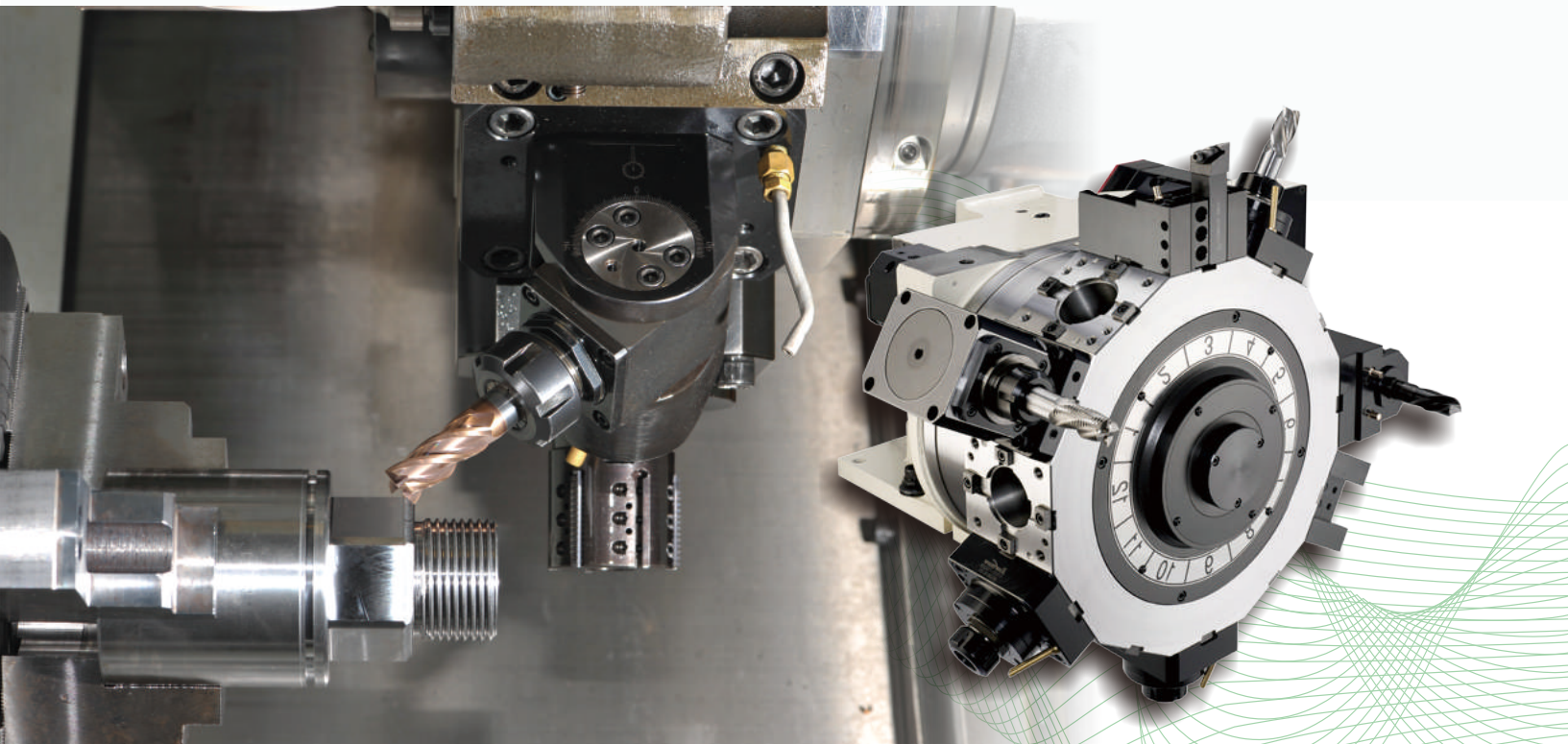


高精度、高轉速、減少干涉！！  
High-Precision High-Speed  
Minimizes interference!!



EC SMALL DIAMETER HOLDER  
EC 後拉式小徑刀柄

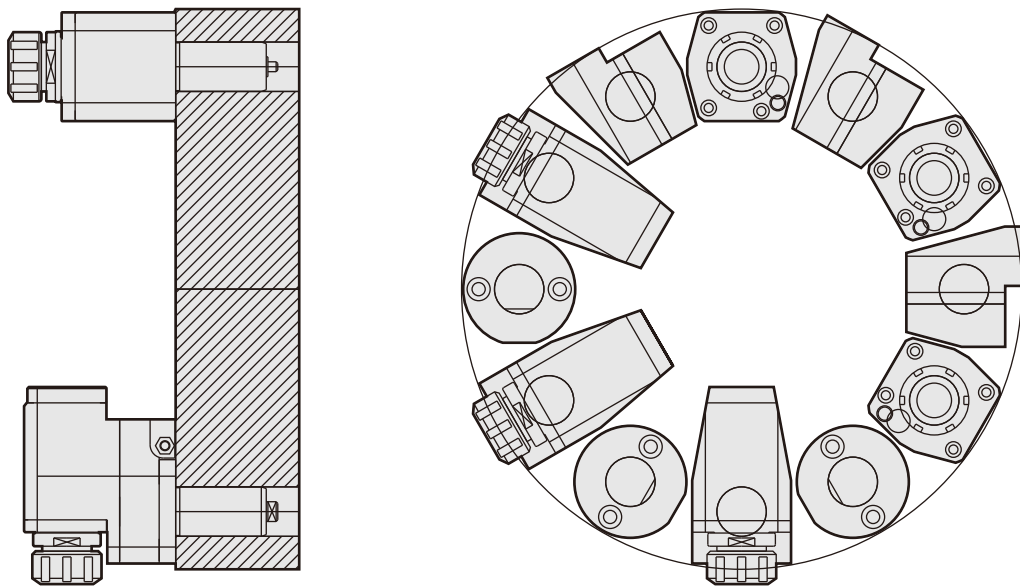
LIVE TOOL HOLDER FOR JAPANESE SERIAL TURNING MILL MACHINE  
日本系統複合加工回轉工具



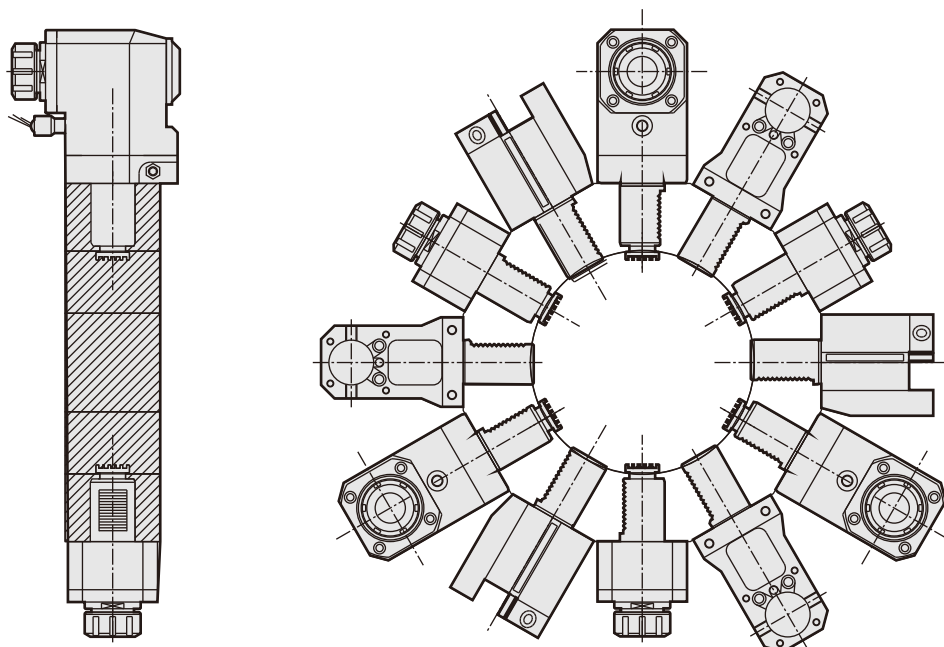
## 刀塔種類 (DIN 69880系)

依入刀方向

**A軸向入刀(axial),(axial turret)**



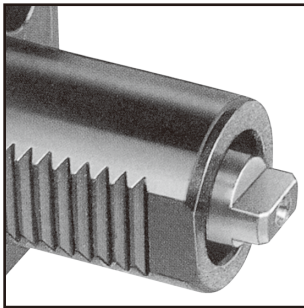
**B徑向入刀(radial),(radial turret)**



刀塔種類 (DIN 69880系)

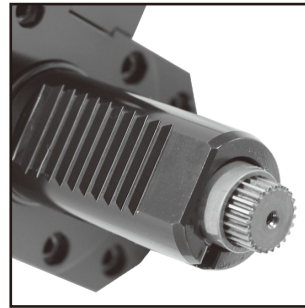
依驅動齒 COUPLING

**A DIN 1809(DUPLOMATIC)**



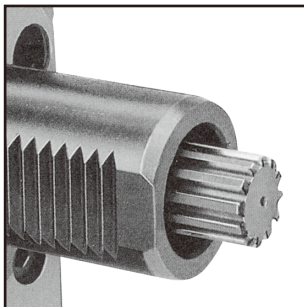
▶ Coupling to DIN 1809

**B DIN 5480(SAUTER)(DUPLOMATIC)**



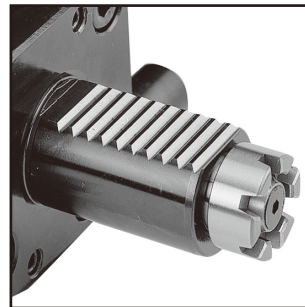
▶ Coupling to DIN 5480

**C DIN 5482(SAUTER)**



▶ Coupling to DIN 5482

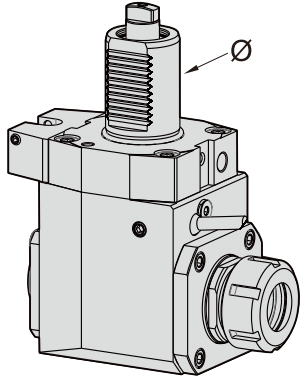
**D MT (BARUFFALDI)**



▶ Spur Coupling

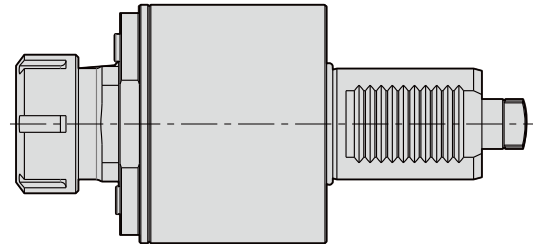


## EVERMORE 編碼 尺寸番號



**DA**

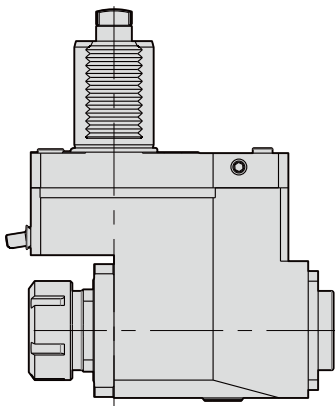
直向驅動



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

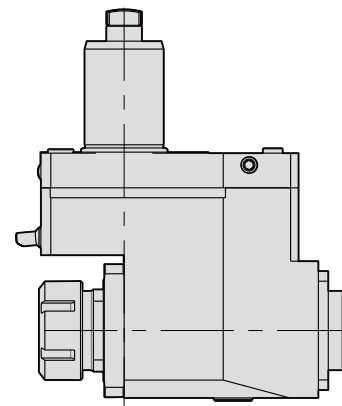
**BL**

B: backward  
L: left hand



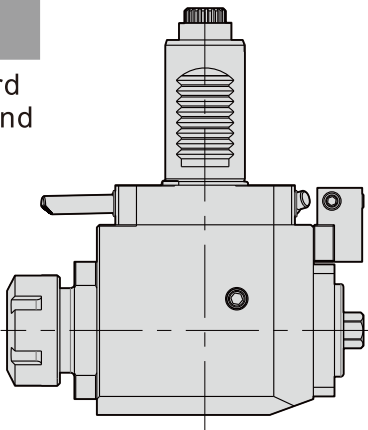
**BR**

B: backward  
R: right hand



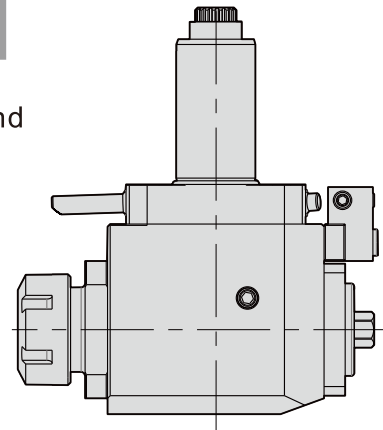
**FL**

F: forward  
L: left hand



**FR**

F: forward  
R: right hand



**TXX**

T: tapping 攻牙型

**EX:**

1. BR4018093290

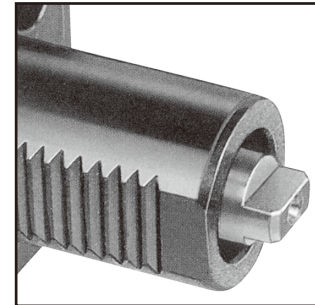
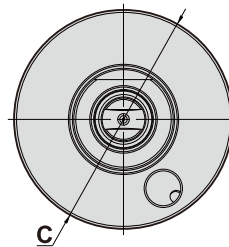
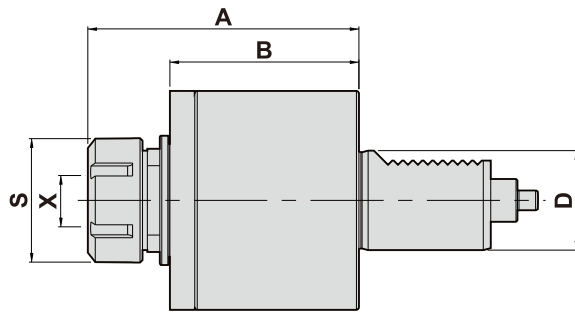
此為VDI40，右手式，聯軸器為1809，後縮型，配ER32螺帽，中心距90mm。

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

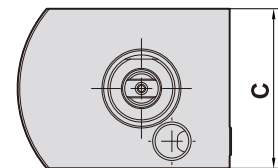
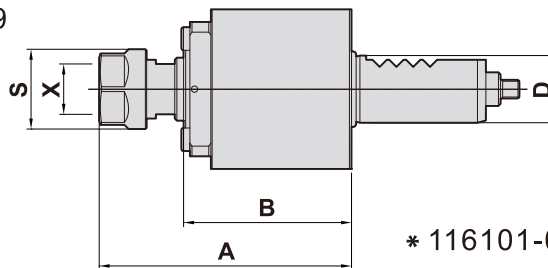
### 軸向鑽銑刀座 (0°)



▲ 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	X Capacity		S	Maximum R.P.M	i	A	B	C	Code No.	Order No.	(Kg) Weight
* 16	1-7	ER11	19	6000	1 : 1	60	40	38	116101-000	DA16180911	0.7
20	1-10	ER16	30	6000	1 : 1	77	49	58	120101-000	DA20180916	1.1
30	1-16	ER25	42	6000	1 : 1	101	71.5	68	130101-000	DA30180925	2.2
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

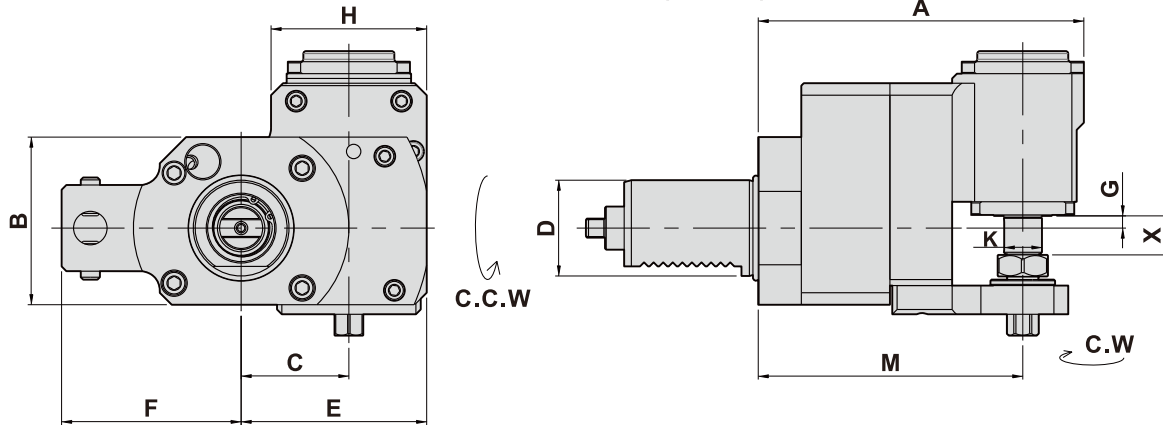
## AXIAL TAPPING HEAD

### 軸向彈性攻牙刀座 (0°)

### DIMENSIONS

D DIN 69880	X Capacity		S	Maximum R.P.M	i	A	B	C	Code No.	Order No.	(Kg) Weight
30	1-10	ER16	30	3000	1 : 1	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

## RADIAL DRILLING AND MILLING HEAD 徑向側銑刀座-DISK CUTTER UNITS (90°)



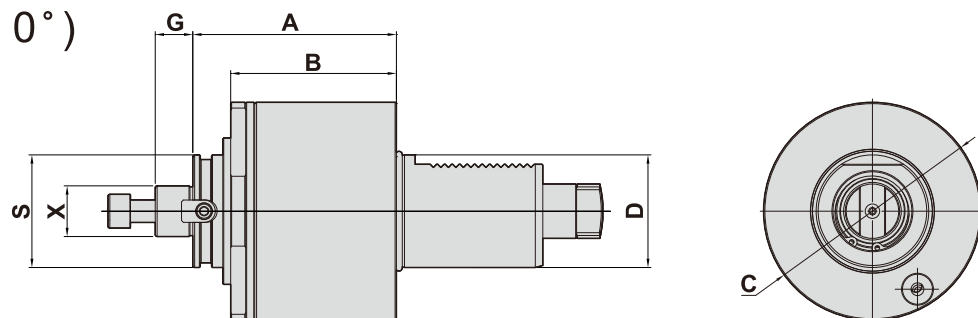
● External coolant supply

● i=3倍減速

### DIMENSIONS

D DIN 69880	X Capacity	Maximum R.P.M	i	A	B	C	E	F	G	H	K	M	Code No.	Order No.	(Kg) Weight
30	16	3000	3:1	133	64	45	77.5	49	5	65	16	107.5	230107-000	BR30180916C/3	5.7
													230127-000	BL30180916C/3	
30	16	3000	3:1	133	64	45	77.5	49	5	65	25.4	107.5	230109-000	BR30180925.4C/3	6
													230129-000	BL30180925.4C/3	
40	16	3000	3:1	136	70	45	77.5	75	5	65	16	110.5	240107-000	BR40180916C/3	6.4
													240127-000	BL40180916C/3	
40	16	3000	3:1	136	70	45	77.5	75	5	65	25.4	110.5	240109-000	BR40180925.4C/3	6.6
													240129-000	BL40180925.4C/3	

## AXIAL SHELL END MILLING CUTTER 軸向銑削刀座 (0°)



● To be used for cutter arbor according to DIN 6358

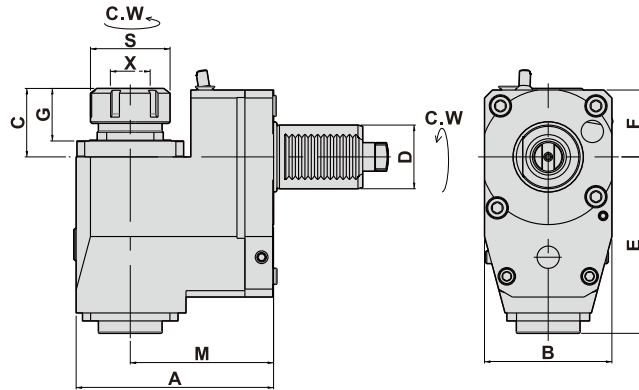
● External coolant

### DIMENSIONS

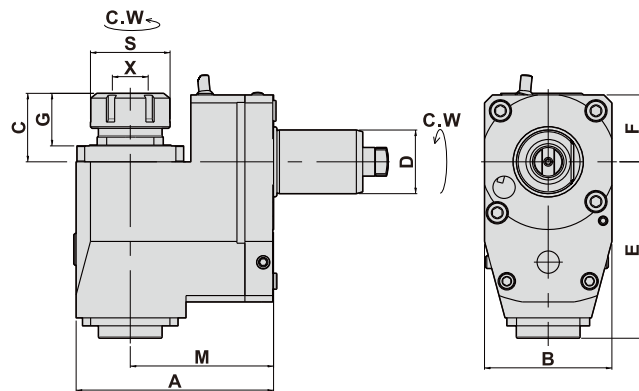
D DIN 69880	X Capacity	Maximum R.P.M	S	i	A	B	C	G	Code No.	Order No.	(Kg) Weight
30	16	3000	32	1:1	85.5	71.5	68	17	130105-000	DA30180916C	2.3
40	22	3000	48	1:1	86.5	74.5	86	18	140105-000	DA40180922C	3.8
40	22	3000	48	1:1	69	56	86	18	140130-000	DAC40180922C	3.1
50	22	3000	48	1:1	94	81.5	96	18	150105-000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

## RADIAL DRILLING AND MILLING HEADS 徑向鑽銑刀座-後縮型 OFFSET (90°)

MODE : BL  
LEFT-HAND



MODE : BR  
RIGHT-HAND



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

### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	E	F	G	M	Code No.	Order No.	(Kg) Weight
20	1-10 ER16	30	5000	1:1	83	50	37	70	27	29	60	220101-000	BR2018091660	2.2
												220121-000	BL2018091660	
30	1-16 ER25	42	5000	1:1	98	60	44	75.5	31.5	30	72	230101-000	BR3018092572	3.5
												230121-000	BL3018092572	
40	2-20 ER32	50	5000	1:1	124	80	45	111	42	35	90	240101-000	BR4018093290	8.3
												240121-000	BL4018093290	
40	2-20 ER32	50	5000	1:1	179	80	45	111	42	35	145	240110-000	BR40180932145	12.2
50	3-26 ER40	63	5000	1:1	129	86	50	112	42	40	90	250101-000	BR5018094090	10
												250121-000	BL5018094090	
60	3-26 ER40	63	5000	1:1	154	104	76	123	54	54	106	260104-000	BR60180940106	16.3
												260124-000	BL60180940106	
60	10-34 ER50	78	5000	1:1	154	104	74.5	123	54	52	106	260101-000	BR60180950106	16.5
												260121-000	BL60180950106	

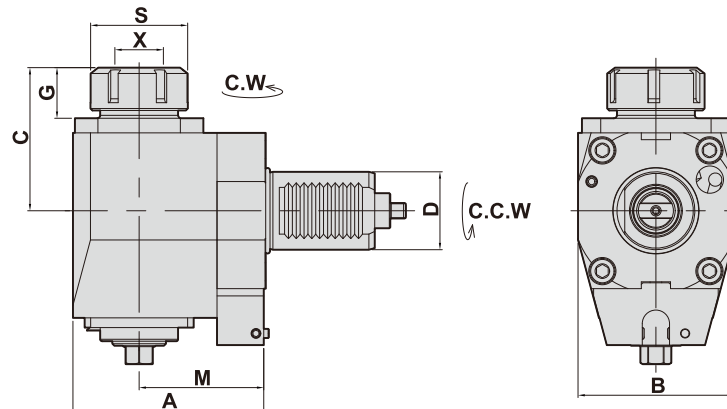
## RADIAL TAPPING HEAD 徑向彈性攻牙刀座-後縮型 (90°)

### DIMENSIONS

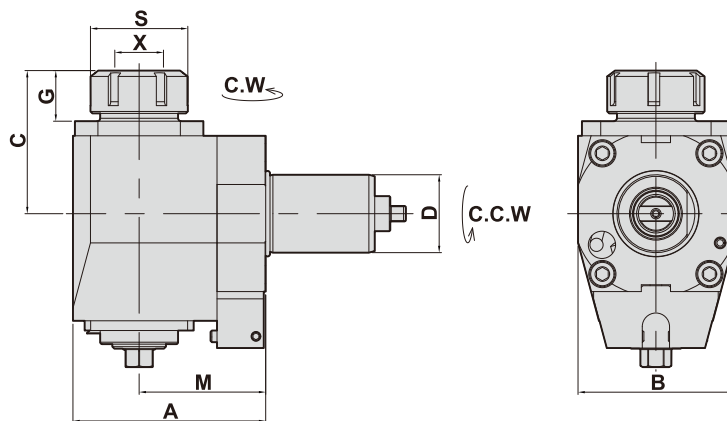
D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	E	F	G	M	Code No.	Order No.	(Kg) Weight
30	1-10 ER16	30	3000	1:1	98	60	51	75.5	3.5	38.5	72	230105-000	TBR3018091672	3.5
												230125-000	TBL3018091672	
40	1-13 ER20	35	3000	1:1	124	80	59.5	110	42	49.5	90	240105-000	TBR4018092090	8.5
												240125-000	TBL4018092090	
50	1-16 ER25	42	3000	1:1	129	86	54	112	45	55	90	250105-000	TBR5018092590	10.3
												250125-000	TBL5018092590	
60	2-20 ER32	50	3000	1:1	154	104	105	123	54	82.5	106	260105-000	TBR60180932106	16.8
												260125-000	TBL60180932106	

## RADIAL DRILLING AND MILLING 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	i	A	B	C	G	M	Code No.	Order No.	(Kg) Weight
20	1-10 ER16	30	5000	1:1	67	50	66	27	45	220141-000	FR2018091645	1.8
										220161-000	FL2018091645	
30	1-16 ER25	42	5000	1:1	87	64	75	26	55	230141-000	FR3018092555	4
										230161-000	FL3018092555	
30	1-16 ER25	42	5000	1:1	117	64	75	26	85	230148-000	FR3018092585	4.6
										230168-000	FL3018092585	
30	1-16 ER25	42	5000	1:1	132	64	75	26	100	230149-000	FR30180925100	5.1
										230169-000	FL30180925100	
40	2-20 ER32	50	5000	1:1	99	80	80	29	65	240141-000	FR4018093265	6
										240161-000	FL4018093265	
40	2-20 ER32	50	5000	1:1	119	80	80	29	85	240148-000	FR4018093285	7
										240168-000	FL4018093285	
40	2-20 ER32	50	5000	1:1	134	80	80	29	100	240149-000	FR40180932100	7.6
										240169-000	FL40180932100	

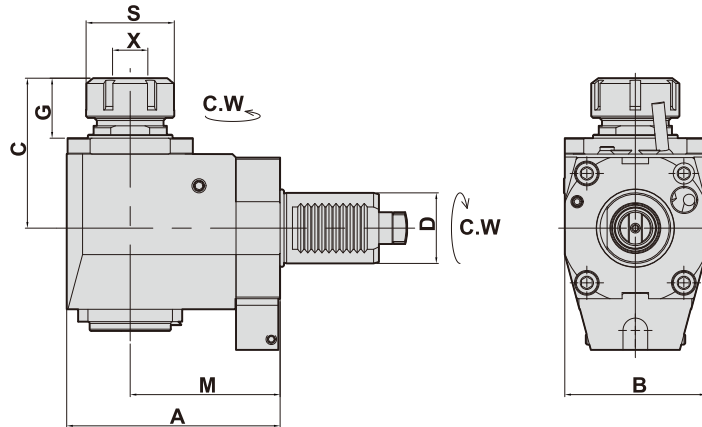
## RADIAL TAPPING HEAD 徑向彈性攻牙刀座 (90°)

### DIMENSIONS

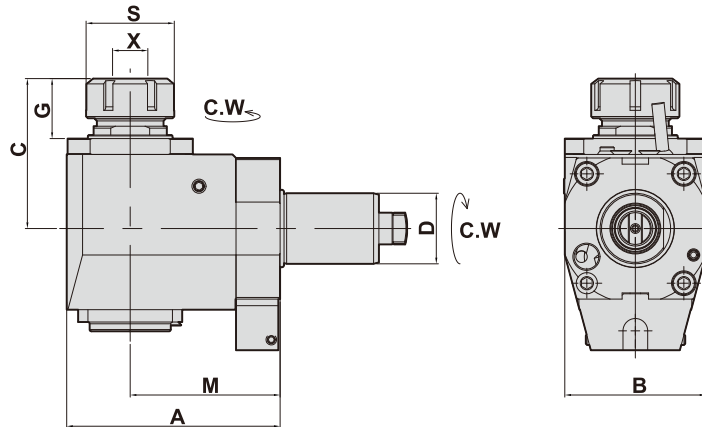
D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	G	M	Code No.	Order No.	(Kg) Weight
30	1-10 ER16	30	3000	1:1	87	64	87	37	55	230145-000	TFR3018091655	4.1
										230165-000	TFL3018091655	
40	1-13 ER20	35	3000	1:1	99	80	94	46	65	240145-000	TFR4018092065	6.1
										240165-000	TFL4018092065	

## 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	i	A	B	C	G	M	Code No.	Order No.	(Kg) Weight
40	2-20 ER32	50	5000	1:1	101	80	85	34	65	240181-000	NFR4018093265	6
										2401101000	NFL4018093265	
40	2-20 ER32	50	5000	1:1	121	80	85	34	85	240188-000	NFR4018093285	7
										2401108000	NFL4018093285	
40	2-20 ER32	50	5000	1:1	136	80	85	34	100	240189-000	NFR40180932100	7.6
										2401109000	NFL40180932100	
40	2-20 ER32	50	5000	1:1	158	80	95.5	37	120	240194-000	NFR40180932120	9
										2401117000	NFL40180932120	
50	3-26 ER40	63	5000	1:1	115	88	110	43	75	250181-000	NFR5018094075	9.8
										2501101000	NFL5018094075	
60	10-34 ER50	78	5000	1:1	156	104	139	56.5	106	260141-000	NFR60180950106	18.1

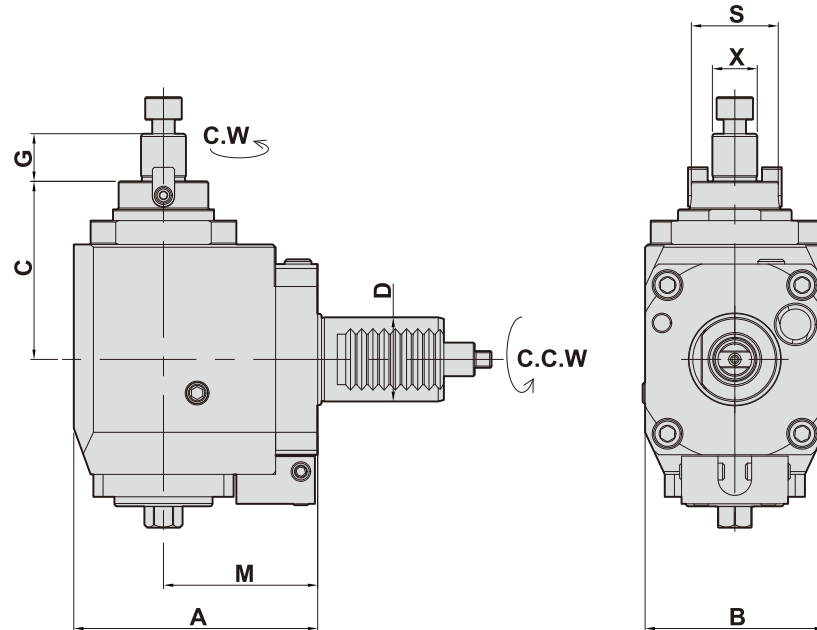
## RADIAL TAPPING HEAD 徑向彈性攻牙刀座 (90°)

### DIMENSIONS

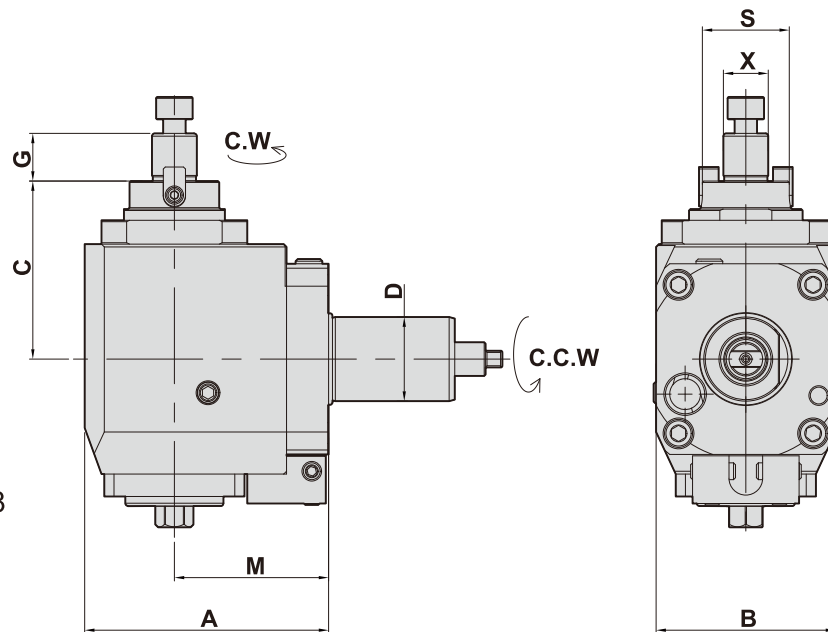
D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	G	M	Code No.	Order No.	(Kg) Weight
40	1-13 ER20	35	3000	1:1	101	80	105	25	65	240190-000	NTRFR4018092065	6.1
										2401105000	NTFL4018092065	
40	1-13 ER20	35	3000	1:1	121	80	105	55.5	85	240191-000	NTRFR4018092085	7.1
										2401111000	NTFL4018092085	
50	1-16 ER25	42	3000	1:1	115	88	105	42	75	250188-000	NTRFR5018092575	9.9
										2501105000	NTFL5018092575	

## RADIAL SHELL END MILLING CUTTER 徑向銑削刀座 (90°)

MODE : FL  
LEFT-HAND



MODE : FR  
RIGHT-HAND



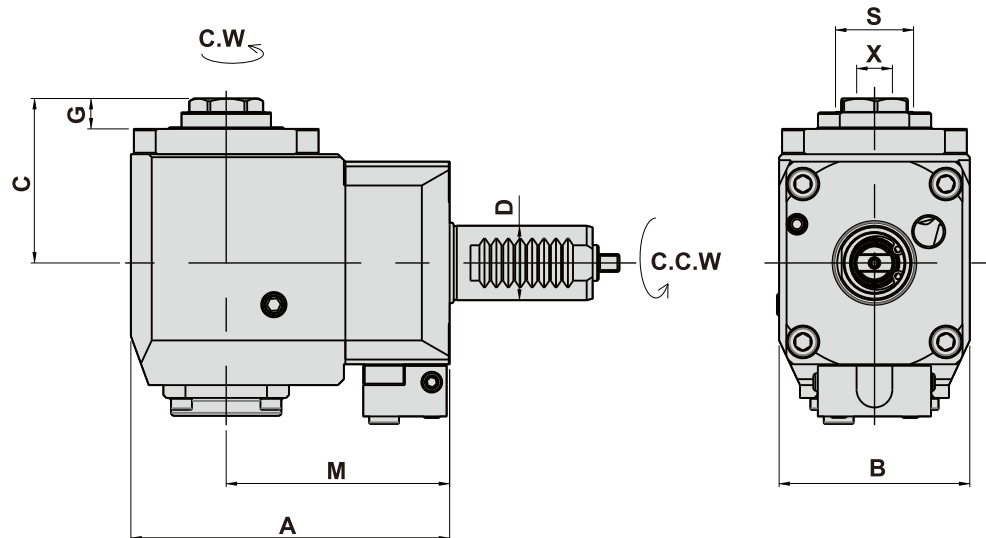
- To be used for collet DIN 6358
- External coolant

### DIMENSIONS

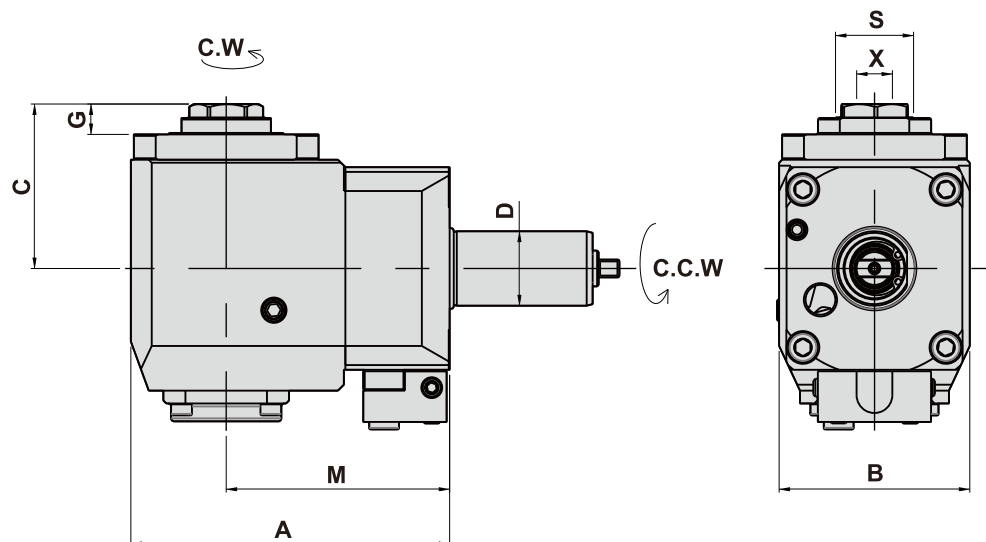
D DIN 69880	X DIN 6358	S	Maximum R.P.M	i	A	B	C	G	M	Code No.	Order No.	(Kg) Weight
30	16	32	5000	1:1	87	64	63.5	17	55	230144-000	FR30180916C55	3.8
										230164-000	FL30180916C55	

## RADIAL DRILLING AND MILLING HEAD 徑向鑽銑刀座 (90°)

MODE : FL  
LEFT-HAND



MODE : FR  
RIGHT-HAND



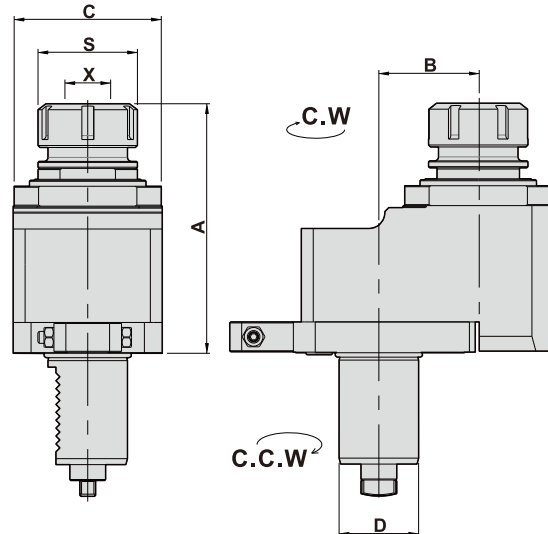
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	G	M	Code No.	Order No.	(Kg) Weight
25	1-13 ER20	30	5000	1:1	107	64	55	10	75	225141-000	FR25180920A75	3.9
										225161-000	FL25180920A75	
25	1-16 ER25	32	5000	1:1	107	64	56	11	75	225142-000	FR25180925A75	3.9
										225162-000	FL25180925A75	



## 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

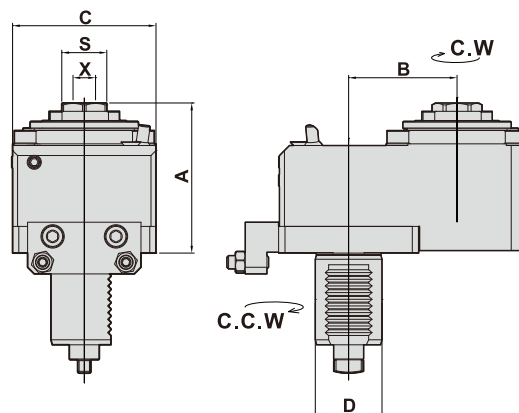
### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	Code No.	Order No.	(Kg) Weight
20	1-10 ER16	30	4000	1:1	93.5	29	50	120108-000	DA2018091629	1.8
30	1-16 ER25	42	4000	1:1	100	29	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°)

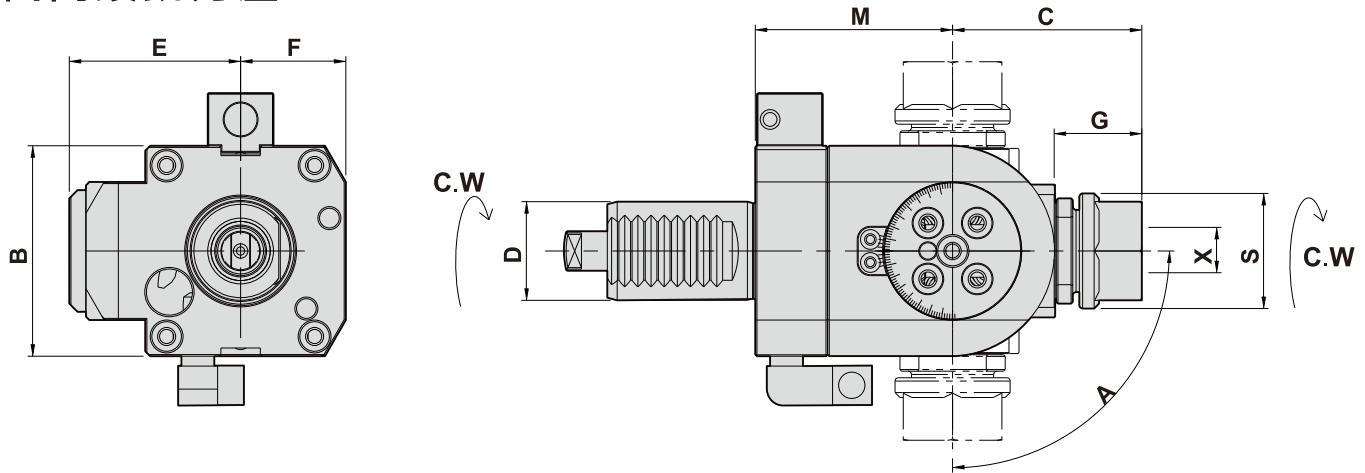
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included



### DIMENSIONS

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

## ANGULAR HEAD 萬向鑽銑刀座



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

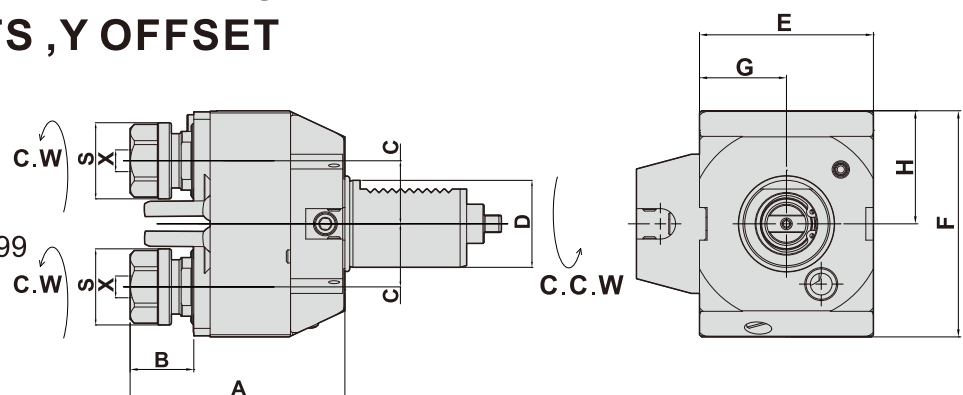
### DIMENSIONS

D DIN 69880	X Capacity	Maximum R.P.M	S	A	B	C	E	F	G	M	Code No.	Order No.	(Kg) Weight
30	1-13 ER20	4000	35	±90°	64	59	54	32	27	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 ,Y OFFSET

軸向鑽銑刀座--  
雙頭Y軸偏心 (0°)

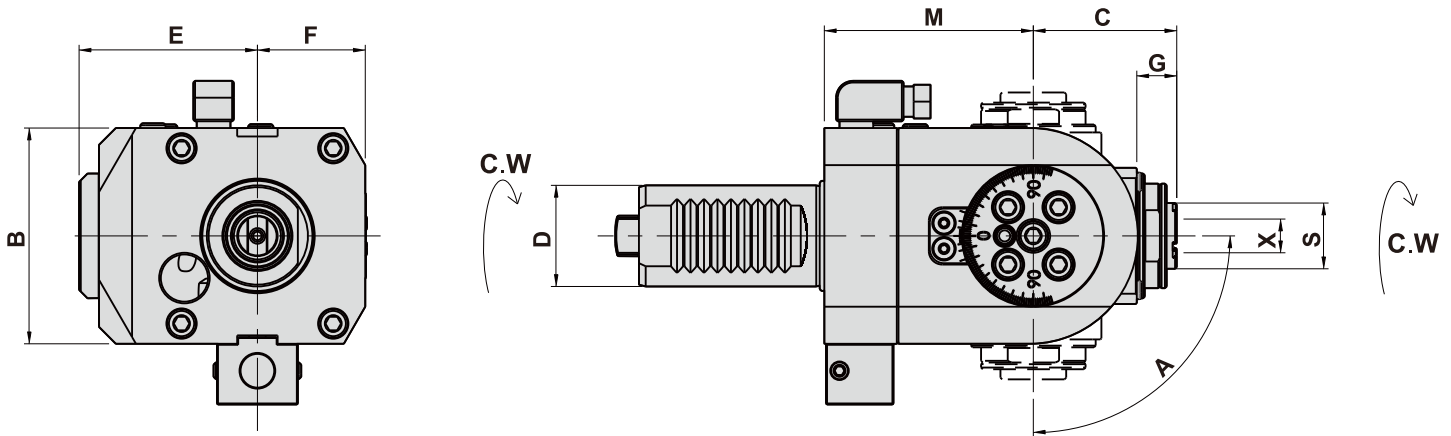
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included



### DIMENSIONS

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

## ANGULAR HEAD 萬向鑽銑刀座



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

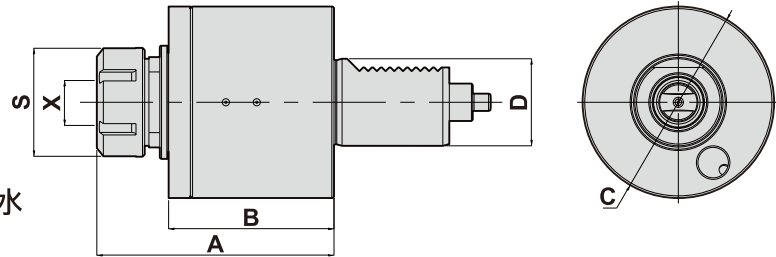
### DIMENSIONS

D DIN 69880	X Capacity	Maximum R.P.M	S	A	B	C	E	F	G	M	Code No.	Order No.	(Kg) Weight
30	1-10 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



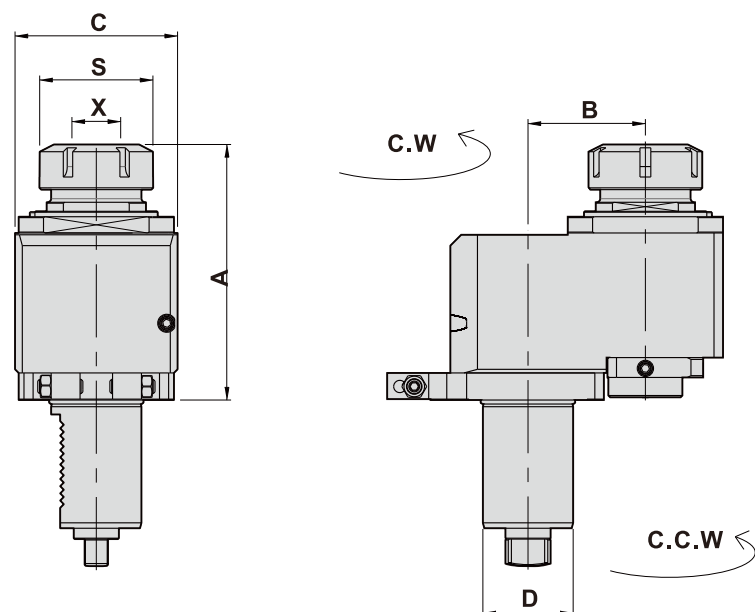
#### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	A	B	C	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

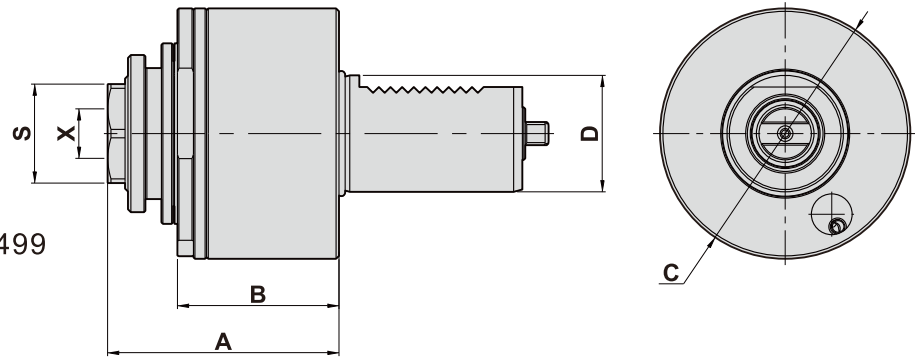


#### DIMENSIONS

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

## AXIAL DRILLING AND MILLING HEAD

### 軸向鑽銑刀座 (0°)



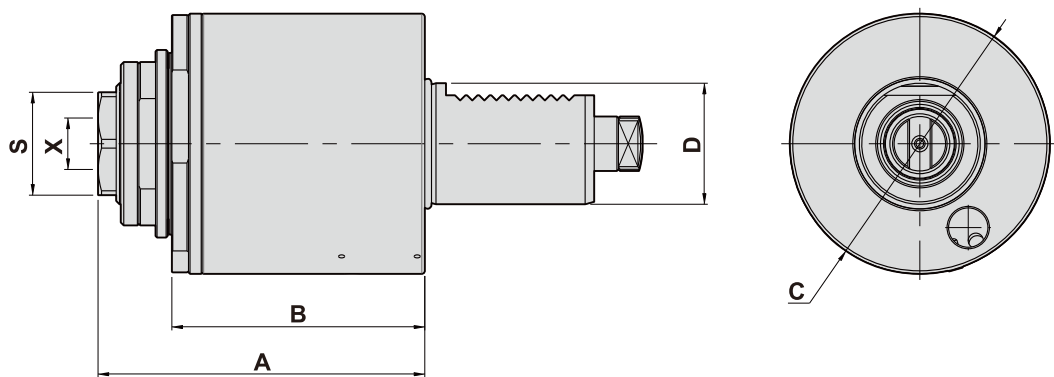
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

#### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	Code No.	Order No.	(Kg) Weight
25	1-13 ER20	26	6000	1:1	63.5	54	64	125101-000	DA251809ER20A	1.6
25	1-16 ER25	30	6000	1:1	67.5	54	64	125102-000	DA251809ER25A	1.6
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

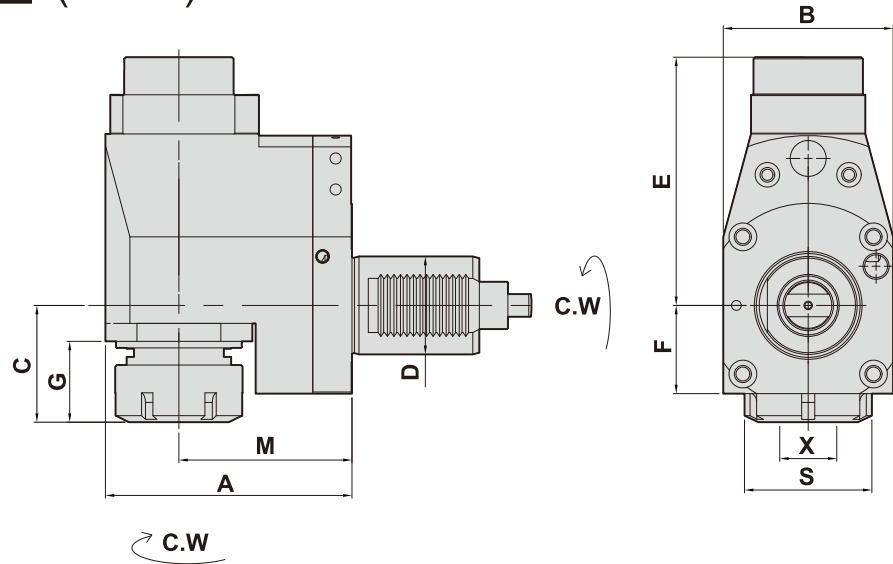
#### DIMENSIONS

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

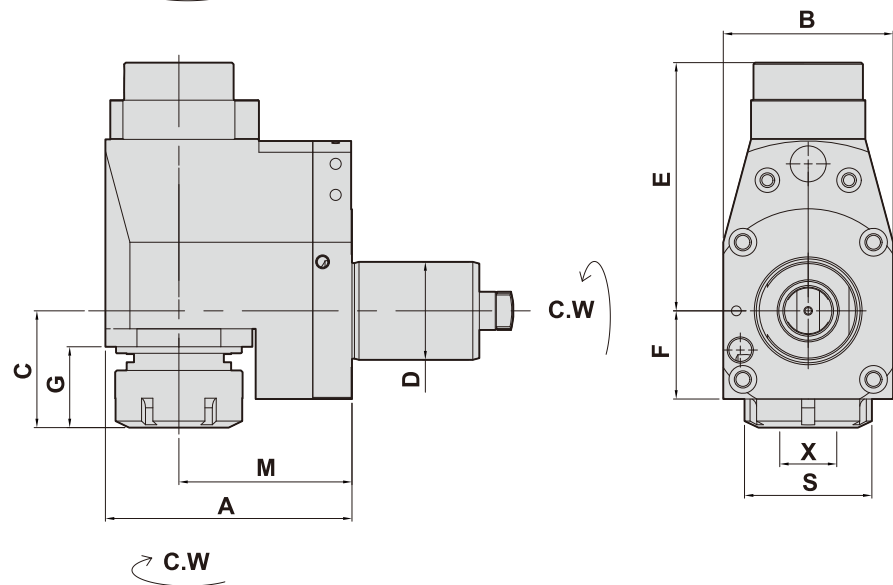
## RADIAL MILLING AND DRILLING HEAD-OFFSET

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

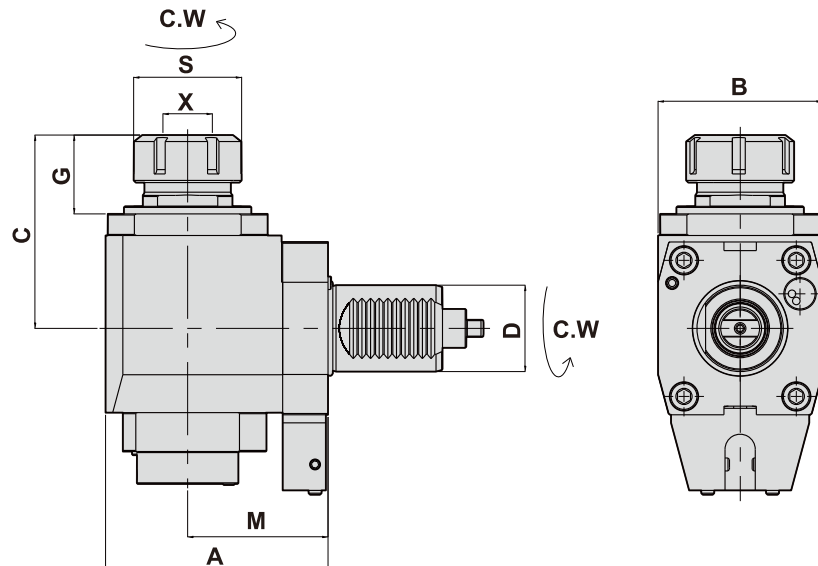
### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	A	B	C	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
40	2-20 ER32	50	4000	128	80	48	130	42	36.5	90	240106-000	CWBR4018093290	9.7
											240126-000	CWBL4018093290	
50	3-26 ER40	63	4000	129	86	48.5	133	42	38.5	90	250106-000	CWBR5018094090	10.5
											250126-000	CWBL5018094090	
60	3-26 ER40	63	4000	154	104	69	152	54	46.5	106	260108-000	CWBR60180940106	17.4
											260129-000	CWBL60180940106	
60	10-34 ER50	78	4000	154	104	71.5	152	54	49	106	260106-000	CWBR60180950106	17.3
											260126-000	CWBL60180950106	

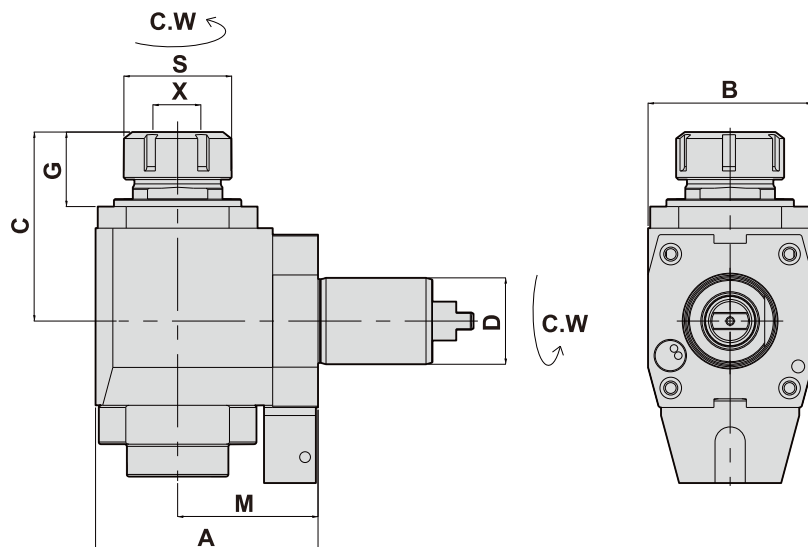
## RADIAL MILLING AND DRILLING HEAD

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

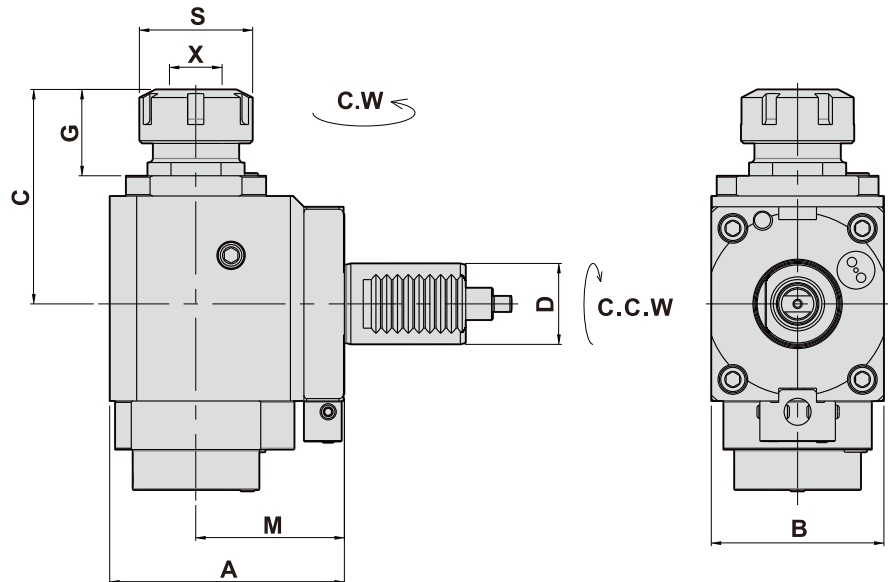
### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	G	M	Code No.	Order No.	(Kg) Weight
30	1-16 ER25	42	4000	1:1	87	64	80	32	55	230186-000	CWNFR3018092555	3.9
										2301101000	CWNFL3018092555	
40	2-20 ER32	50	4000	1:1	103	76	90	34	65	240186-000	CWNFR4018093265	6.5
										2401106000	CWNFL4018093265	
40	2-20 ER32	50	4000	1:1	123	76	90	34	85	240197-000	CWNFR4018093285	7.2
										2401119000	CWNFL4018093285	
40	2-20 ER32	50	4000	1:1	138	76	90	34	100	240198-000	CWNFR40180932100	8
										2401120000	CWNFL40180932100	
50	3-26 ER40	63	4000	1:1	123	88	117.5	51	75	250186-000	CWNFR5018094075	12.3
										2501106000	CWNFL5018094075	

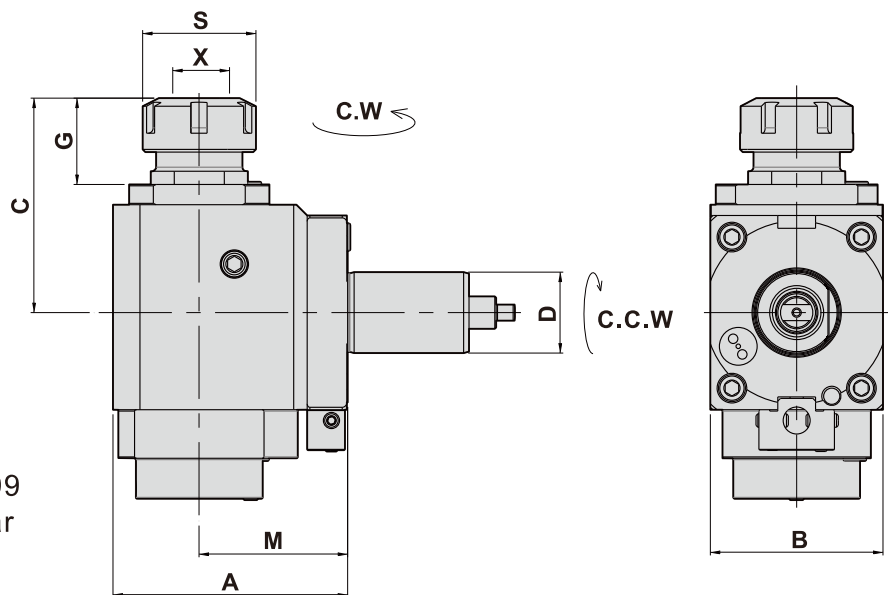
## RADIAL MILLING AND DRILLING HEAD

### 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

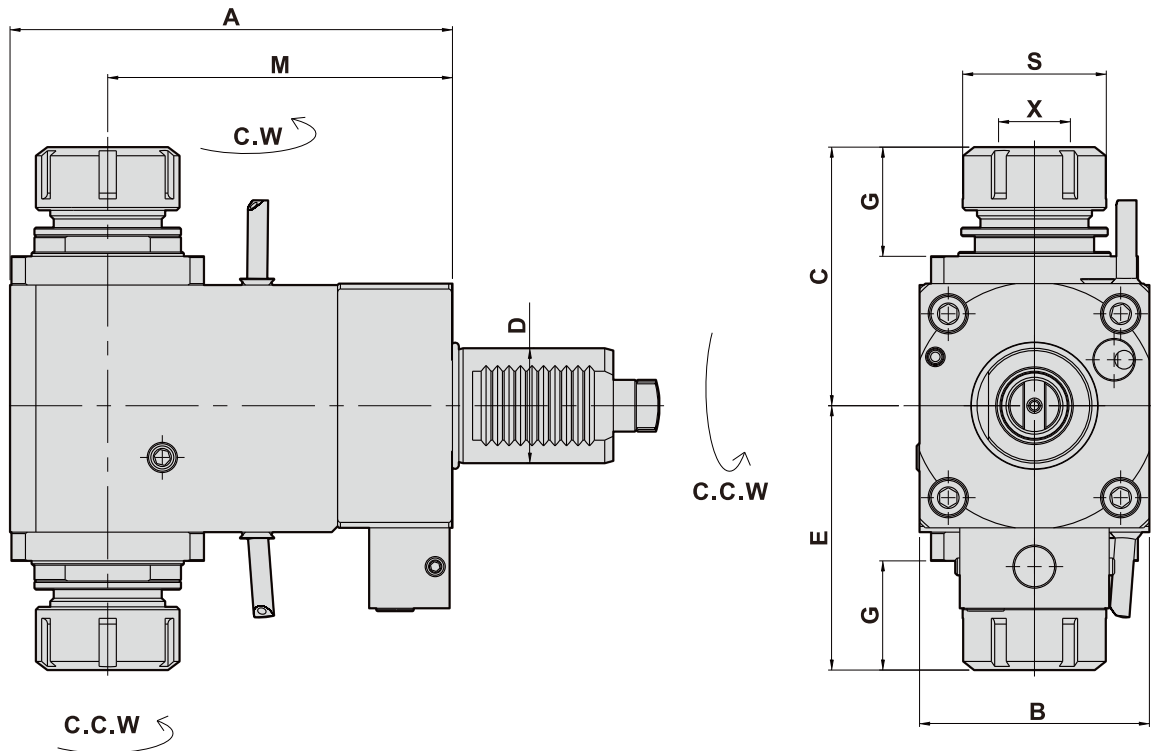
### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	A	B	C	G	M	Code No.	Order No.	(Kg) Weight
30	1-16 ER25	42	4000	87	64	80	30	55	230146-000	CWFR3018092555	3.6
									230166-000	CWFL3018092555	
40	2-20 ER32	50	4000	103	76	90	34	65	240146-000	CWFR4018093265	6.1
									240166-000	CWFL4018093265	
40	2-20 ER32	50	4000	123	76	90	34	85	240154-000	CWFR4018093285	6.8
									240174-000	CWFL4018093285	
40	2-20 ER32	50	4000	138	76	90	37	100	240158-000	CWFR40180932100	7.7
									240178-000	CWFL40180932100	



## RADIAL DRILLING AND MILLING HEAD DOUBLE HEAD

徑向雙頭鑽銑刀座 (90°)

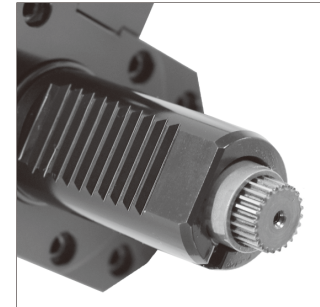
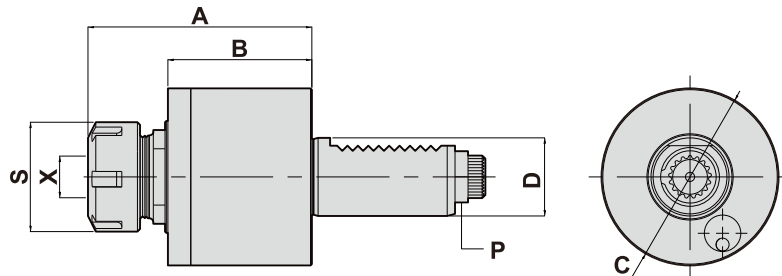


- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	E	G	M	Code No.	Order No.	(Kg) Weight
30	1-16 ER25	42	4000	1:1	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

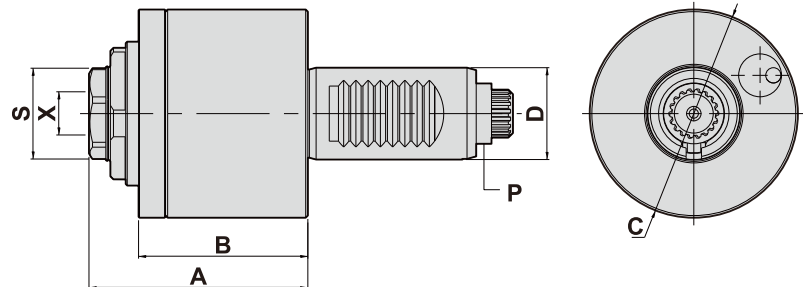
## AXIAL DRILLING AND MILLING HEAD 軸向鑽銑刀座 (0°)



▲ 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

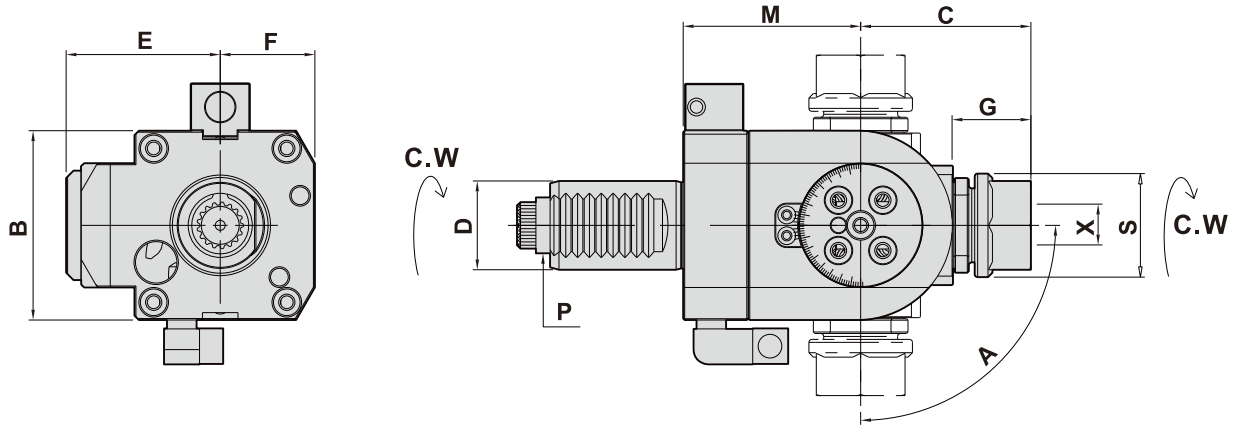
D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	P DIN 5480	Code No.	Order No.	(Kg) Weight
20	1-10 ER16	30	6000	1:1	76	48	58	W11x0.8	120201-000	DA20548016	1.1
30	1-16 ER25	30	6000	1:1	70	55	68	W16x0.8	130203-000	DAC30548025A	1.8
30	1-16 ER25	42	6000	1:1	85	57	68	W16x0.8	130202-000	DAC30548025	1.9
30	1-16 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°)

### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	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



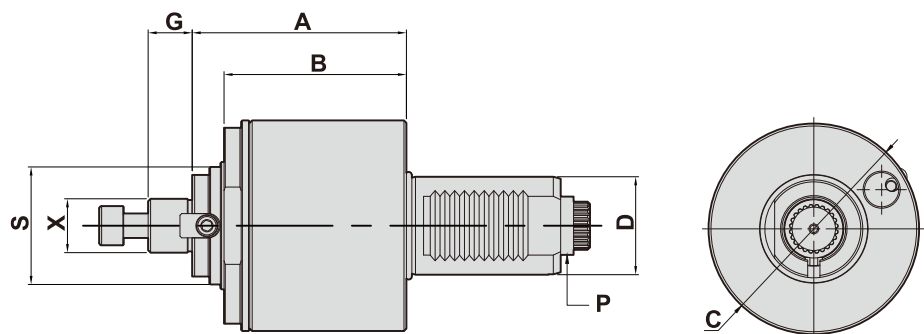
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

### DIMENSIONS

D DIN 69880	X Capacity	Maximum R.P.M	S	A	B	C	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

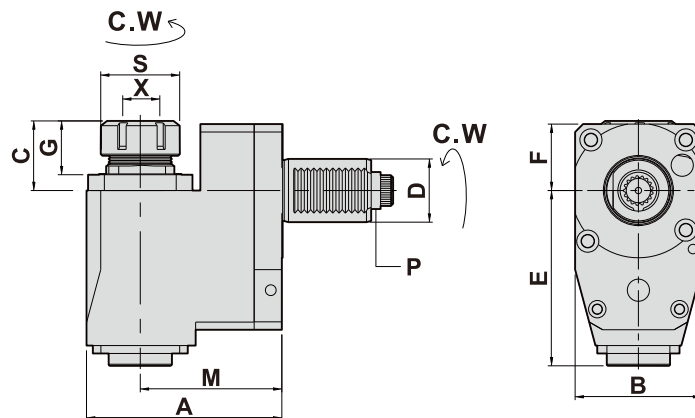


### DIMENSIONS

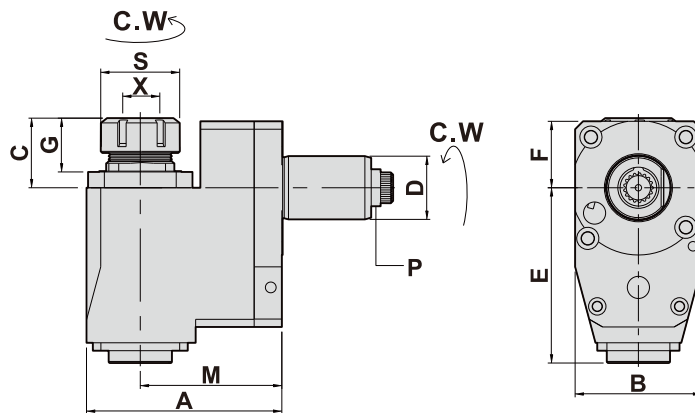
D DIN 69880	X DIN 6358	Maximum R.P.M	S	A	B	C	G	P DIN 5480	Code No.	Order No.	(Kg) Weight
30	16	3000	32	85.5	71.5	68	17	W16x0.8	130206-000	DA30548016C	2.3
40	16	3000	32	69	56	86	17	W20x0.8	140231-000	DAC40548016C	3
40	22	3000	48	69	56	86	18	W20x0.8	140232-000	DAC40548022C	3.2

## 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	A	B	C	E	F	G	M	P DIN 5480	Code No.	Order No.	(Kg) Weight
20	1-10 ER16	30	5000	1:1	88	50	37	70	27	28.5	65	W11x0.8	220201-000	BR2054801665	2.4
													220221-000	BL2054801665	
30	1-16 ER25	42	5000	1:1	98	60	44	75.5	31.5	30	72	W16x0.8	230201-000	BR3054802572	3.6
													230221-000	BL3054802572	
40	2-20 ER32	50	5000	1:1	124	80	45	111	42	35	90	W20x0.8	240201-000	BR4054803290	8.3
													240221-000	BL4054803290	
50	3-26 ER40	63	5000	1:1	129	86	50	112	42	40	90	W24x1.25	250201-000	BR5054804090	10
													250221-000	BL5054804090	
60	10-34 ER50	78	5000	1:1	154	104	77	123	54	54	106	W30x1.25	260202-000	BR60548050106	16.8
													260221-000	BL60548050106	

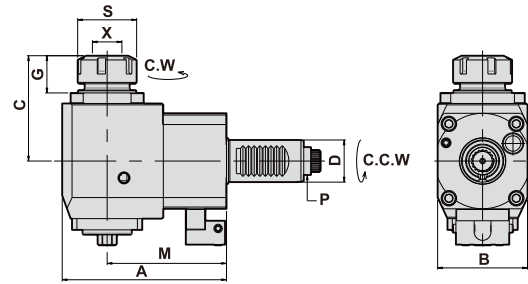
## RADIAL TAPPING HEAD 徑向彈性攻牙刀座-後縮型 (90°)

### DIMENSIONS

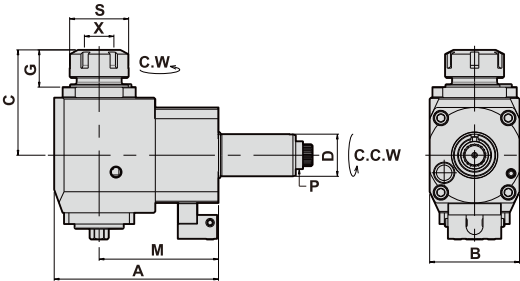
D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	E	F	G	M	P DIN 5480	Code No.	Order No.	(Kg) Weight
20	1-10 ER16	30	3000	1:1	88	50	72.5	70	27	64.5	65	W11x0.8	220202-000	TBR2054801665	2.5
													220222-000	TBL2054801665	
30	1-10 ER16	30	3000	1:1	98	60	51	75.5	31.5	38.5	72	W16x0.8	230205-000	TBR3054801672	3.6
													230225-000	TBL3054801672	
40	1-13 ER20	35	3000	1:1	124	80	59.5	110	42	49.5	90	W20x0.8	240205-000	TBR4054802090	8.5
													240225-000	TBL4054802090	

## 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	i	A	B	C	G	M	P DIN 5480	Code No.	Order No.	(Kg) Weight
20	1-10 ER16	30	5000	1:1	72	50	65	26.5	50	W11x0.8	220241-000	FR2054801650	1.8
											220261-000	FL2054801650	
30	1-16 ER25	42	5000	1:1	87	64	75	26	55	W16x0.8	230241-000	FR3054802555	4
											230261-000	FL3054802555	
30	1-16 ER25	42	5000	1:1	117	64	75	26	85	W16x0.8	230248-000	FR3054802585	4.6
											230268-000	FL3054802585	
30	1-16 ER25	42	5000	1:1	132	64	75	26	100	W16x0.8	230249-000	FR30548025100	5.1
											230269-000	FL30548025100	
40	2-20 ER32	50	5000	1:1	99	80	80	29	65	W20x0.8	240241-000	FR4054803265	6
											240261-000	FL4054803265	
40	2-20 ER32	50	5000	1:1	119	80	80	29	85	W20x0.8	240248-000	FR4054803285	7
											240268-000	FL4054803285	
40	2-20 ER32	50	5000	1:1	134	80	80	29	100	W20x0.8	240249-000	FR40548032100	7.6
											240269-000	FL40548032100	
40	2-20 ER32	50	5000	1:1	154	80	80	29	120	W20x0.8	240255-000	FR40548032120	8.3
											240272-000	FL40548032120	

## RADIAL TAPPING HEAD 徑向彈性攻牙刀座 (90°)

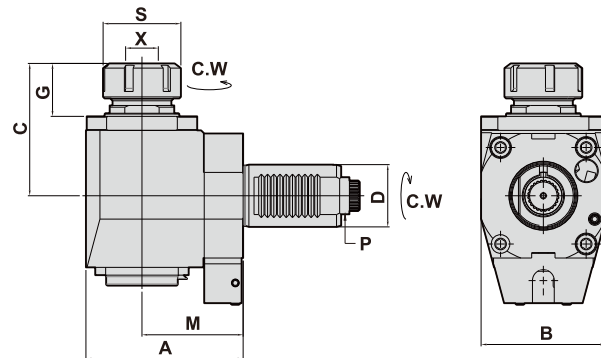
### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	G	M	P DIN 5480	Code No.	Order No.	(Kg) Weight
30	1-10 ER16	30	3000	1:1	87	64	87	37	55	W16x0.8	230245-000	TFR3054801655	4.1
											230265-000	TFL3054801655	
30	1-10 ER16	30	3000	1:1	117	64	87	37	85	W16x0.8	230250-000	TFR3054801685	4.7
											230270-000	TFL3054801685	
30	1-10 ER16	30	3000	1:1	127	64	87	37	100	W16x0.8	230251-000	TFR30548016100	5.2
											230271-000	TFL30548016100	
40	1-13 ER20	35	3000	1:1	99	80	94	46	65	W20x0.8	240245-000	TFR4054802065	6.1
											240265-000	TFL4054802065	
40	1-13 ER20	35	3000	1:1	119	80	94	46	85	W20x0.8	240250-000	TFR4054802085	7.1
											240270-000	TFL4054802085	
40	1-13 ER20	35	3000	1:1	134	80	94	46	100	W20x0.8	240251-000	TFR40548020100	7.7
											240271-000	TFL40548020100	

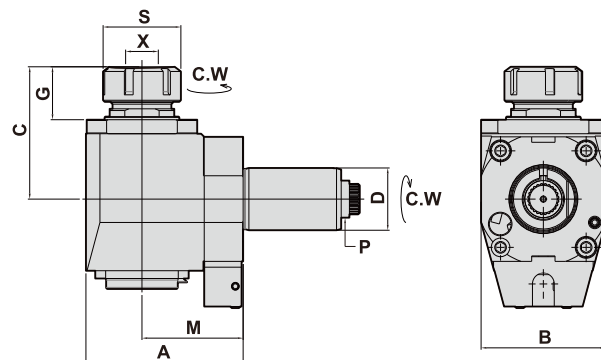
## RADIAL DRILLING AND MILLING HEAD

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	i	A	B	C	G	M	P DIN 5480	Code No.	Order No.	(Kg) Weight
40	2-20 ER32	50	5000	1:1	101	80	85	34	65	W20x0.8	240281-000	NFR4054803265	6
											2402101000	NFL4054803265	
40	2-20 ER32	50	5000	1:1	121	80	85	34	85	W20x0.8	240288-000	NFR4054803285	7
											2402108000	NFL4054803285	
40	2-20 ER32	50	5000	1:1	136	80	85	34	100	W20x0.8	240289-000	NFR40548032100	7.6
											2402109000	NFL40548032100	
40	2-20 ER32	50	5000	1:1	158	80	95.5	37	120	W20x0.8	240294-000	NFR40548032120	9
											2402104000	NFL40548032120	
50	3-26 ER40	63	5000	1:1	115	88	111	44	75	W24x1.25	250288-000	NFR5054804075	9.8
											2502108000	NFL5054804075	
50	3-26 ER40	63	5000	1:1	140	88	110	43	100	W24x1.25	250289-000	NFR50548040100	11.7
											2502109000	NFL50548040100	
60	10-34 ER50	78	5000	1:1	156	104	139	56.5	106	W30x1.25	260281-000	NFR60548050106	18.1
											2602101000	NFL60548050106	

## RADIAL TAPPING HEAD

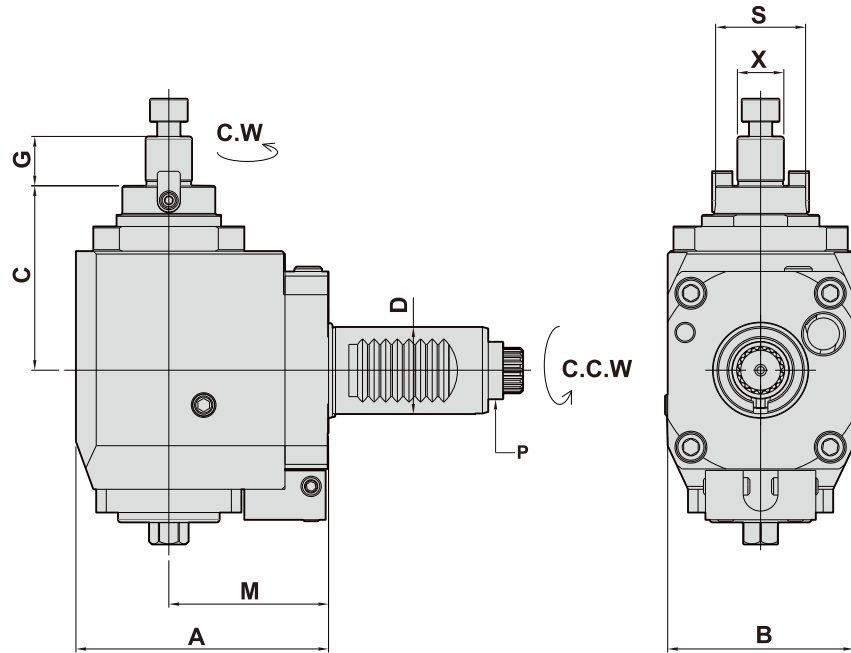
徑向彈性攻牙刀座 (90°)

### DIMENSIONS

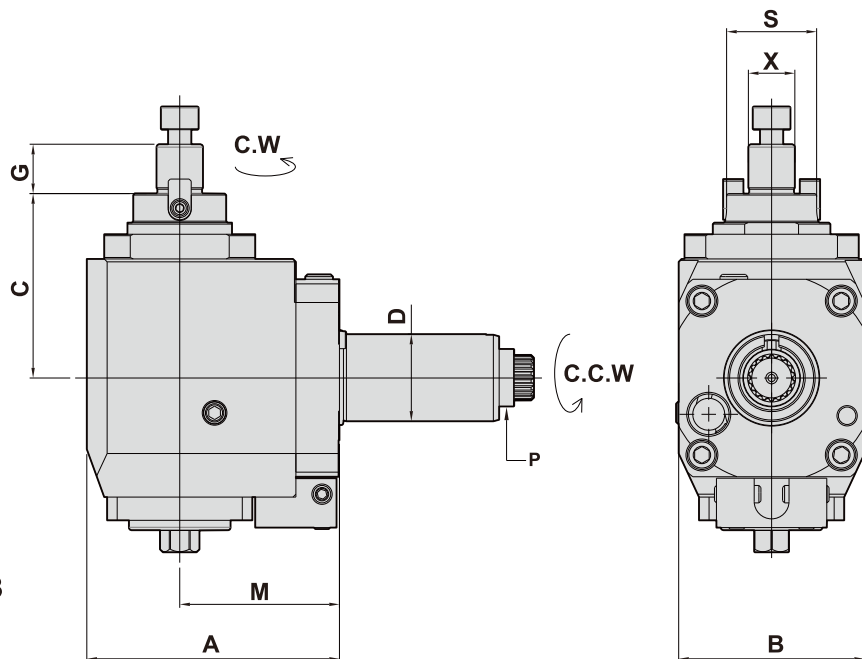
D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	G	M	P DIN 5480	Code No.	Order No.	(Kg) Weight
40	1-13 ER20	35	3000	1:1	101	80	105	25	65	W20x0.8	240285-000	NTFR4054802065	6.1
											2402105000	NTFL4054802065	
40	1-13 ER20	35	3000	1:1	121	80	105	25	85	W20x0.8	240290-000	NTFR4054802085	7.1
											2402110000	NTFL4054802085	
40	1-13 ER20	35	3000	1:1	136	80	105	25	100	W20x0.8	240291-000	NTFR40548020100	7.7
											2402111000	NTFL40548020100	
50	1-16 ER25	42	3000	1:1	140	100	118	51	100	W24x1.25	250251-000	NTFR50548025100	11.8
											250271-000	NTFL50548025100	

## RADIAL SHELL END MILLING CUTTER 徑向銑削刀座 (90°)

MODE : FL  
LEFT-HAND



MODE : FR  
RIGHT-HAND



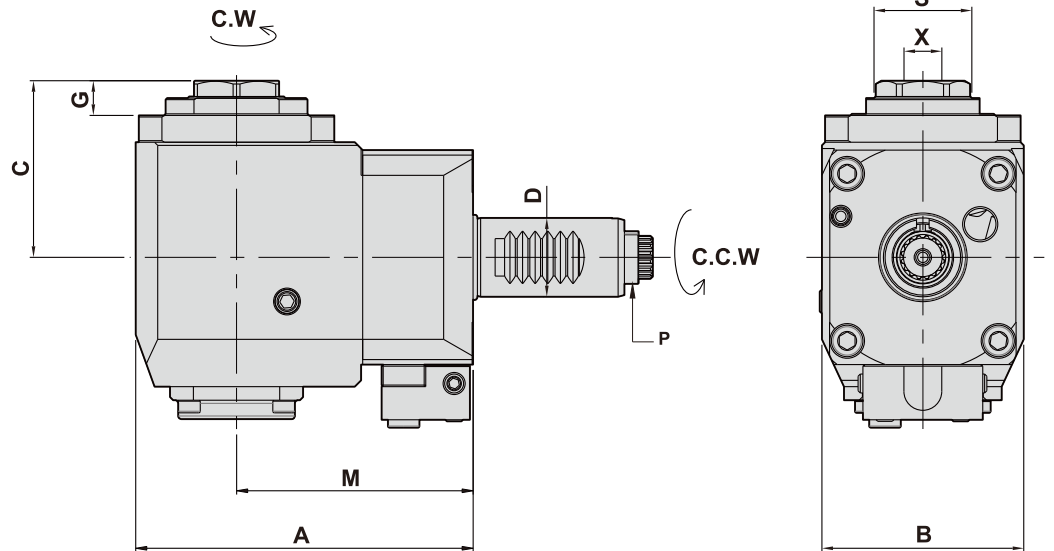
- To be used for collet DIN 6358
- External coolant and

### DIMENSIONS

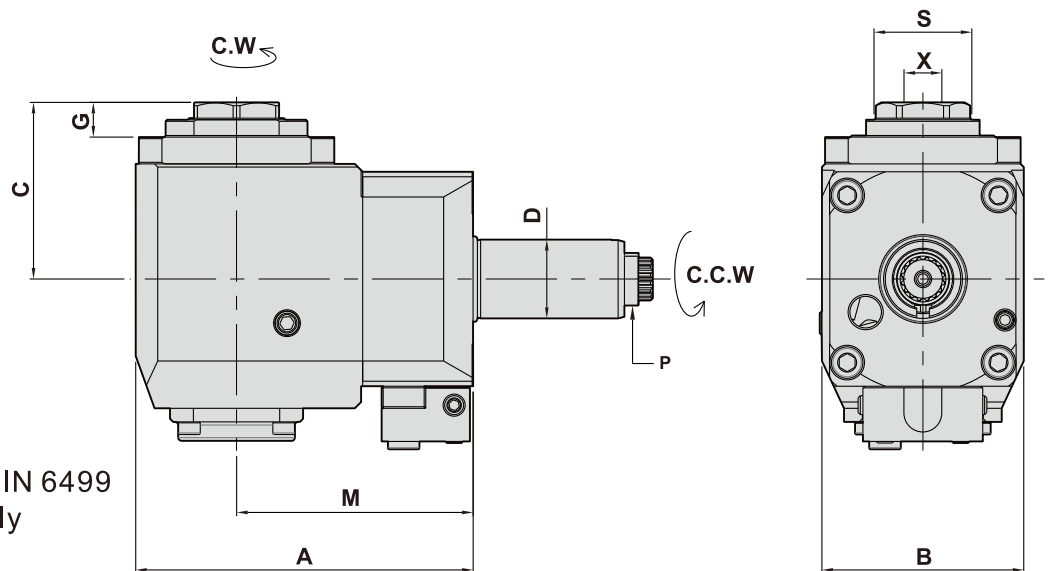
D DIN 69880	X DIN 6358	Maximum R.P.M	S	i	A	B	C	G	M	P DIN 5480	Code No.	Order No.	(Kg) Weight
30	16	5000	32	1:1	87	64	63.5	17	55	W16x0.8	230244-000	FR30548016C55	3.8
											230264-000	FL30548016C55	

## 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

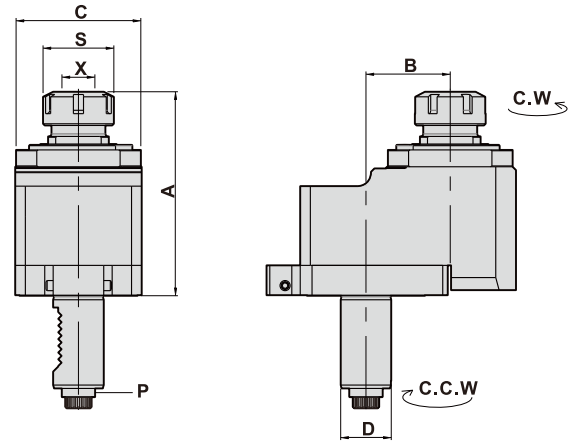
### DIMENSIONS

D DIN 69880	X DIN 6358	Maximum R.P.M	S	i	A	B	C	G	M	P DIN 5480	Code No.	Order No.	(Kg) Weight
25	1-16 ER25	5000	32	1:1	107	64	56	11	75	W14x0.8	225243-000	FR25548025A75	3.9
											225261-000	FL25548025A75	



## 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



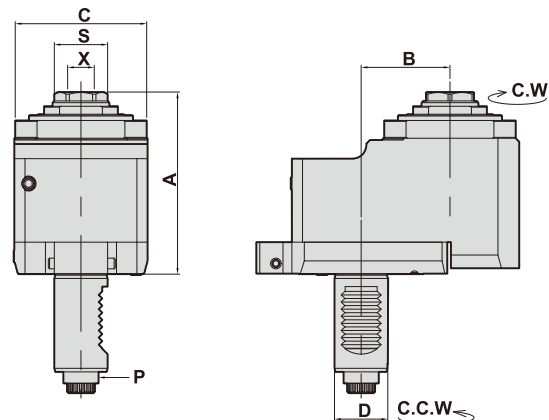
### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	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
*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

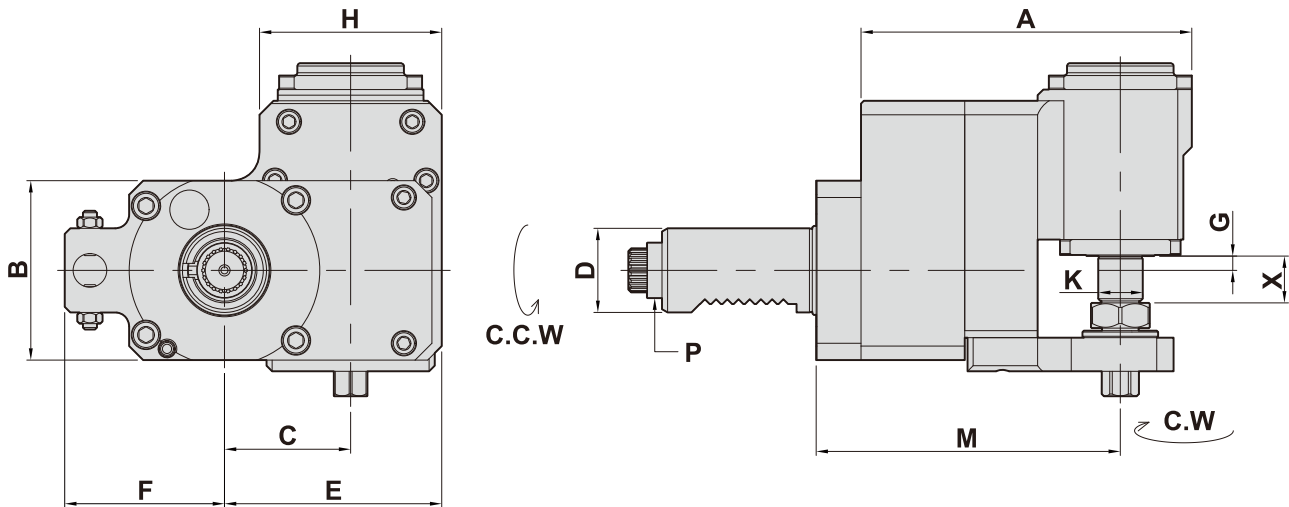


### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	P DIN 5480	Code No.	Order No.	(Kg) Weight
30	1-16 ER25	30	4000	1:1	102.5	50	75	W16x0.8	130226-000	DA30548025A50-L	5.5
*40	1-16 ER25	30	4000	1:1	105	50	78	W20x0.8	140237-000	DA40548025A50I-L	6.2
40	2-20 ER32	38	4000	1:1	111	50	75	W20x0.8	140238-000	DA40548032A50-L	5.9

\*2倍增速

## RADIAL DRILLING AND MILLING HEAD DISK CUTTER UNITS 徑向側銑刀座 (90°)



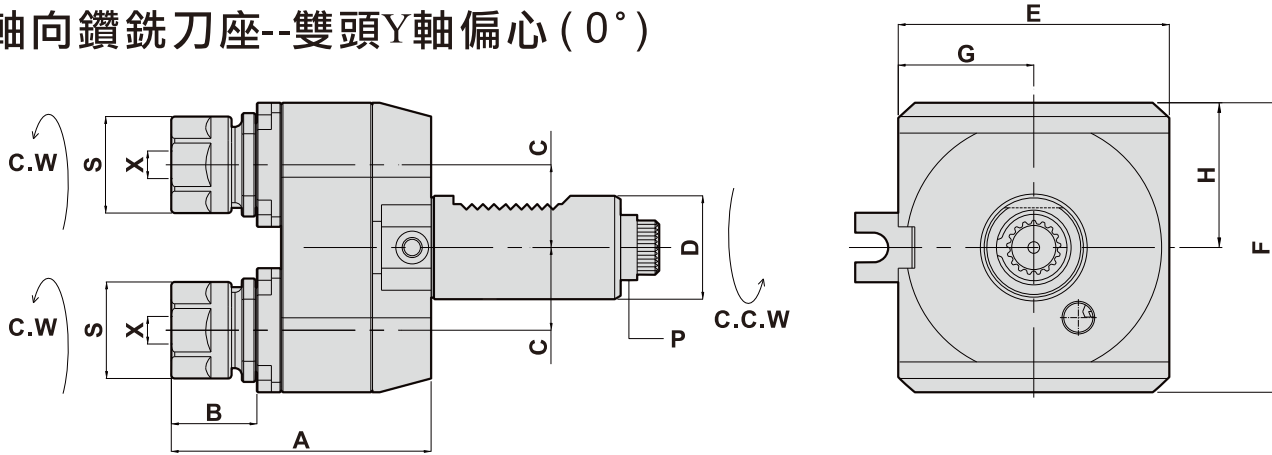
- External coolant supply

### DIMENSIONS

D DIN 69880	X Capacity	Maximum R.P.M	i	A	B	C	E	F	G	H	K	M	P DIN 5480	Code No.	Order No.	(Kg) Weight
30	16	3000	3:1	133	64	45	77.5	57	5	65	16	108.5	W16x0.8	230207-000	BR30548016C/3	5.7
														230227-000	BL30548016C/3	
30	16	3000	3:1	133	64	45	77.5	57	5	65	25.4	108.5	W16x0.8	230209-000	BR30548025.4C/3	6
														230229-000	BL30548025.4C/3	
40	16	3000	3:1	136	70	45	77.5	68	5	65	16	110.5	W20x0.8	240207-000	BR40548016C/3	6.4
														240227-000	BL40548016C/3	
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	45	77.5	68	5	65	25.4	110.5	W20x0.8	240209-000	BR40548025.4C/3	6.6
														240229-000	BL40548025.4C/3	

\* i=3倍減速

## AXIAL DRILLING AND MILLING HEAD DOUBLE COLLETS, Y OFFSET 軸向鑽銑刀座--雙頭Y軸偏心 (0°)

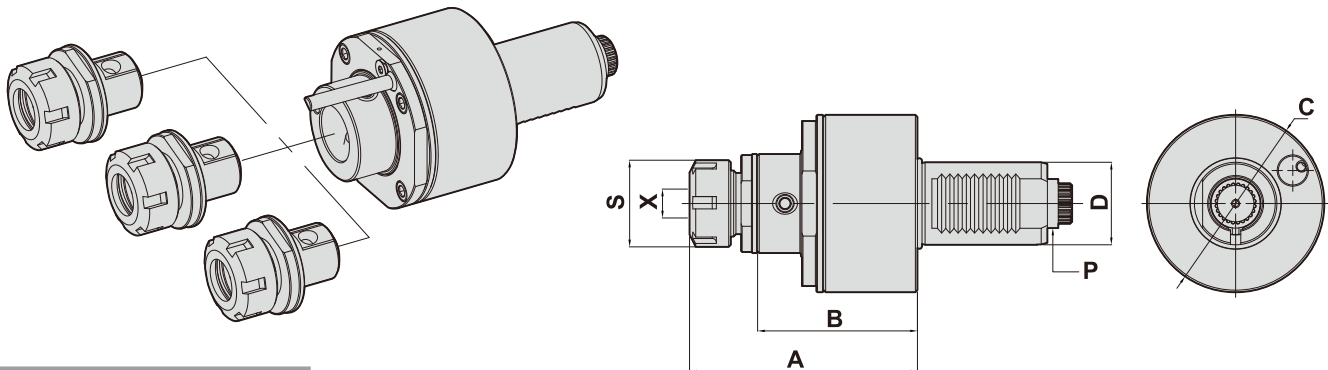


- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

### DIMENSIONS

D DIN 69880	X Capacity	Maximum R.P.M	S	A	B	C	E	F	G	H	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°)

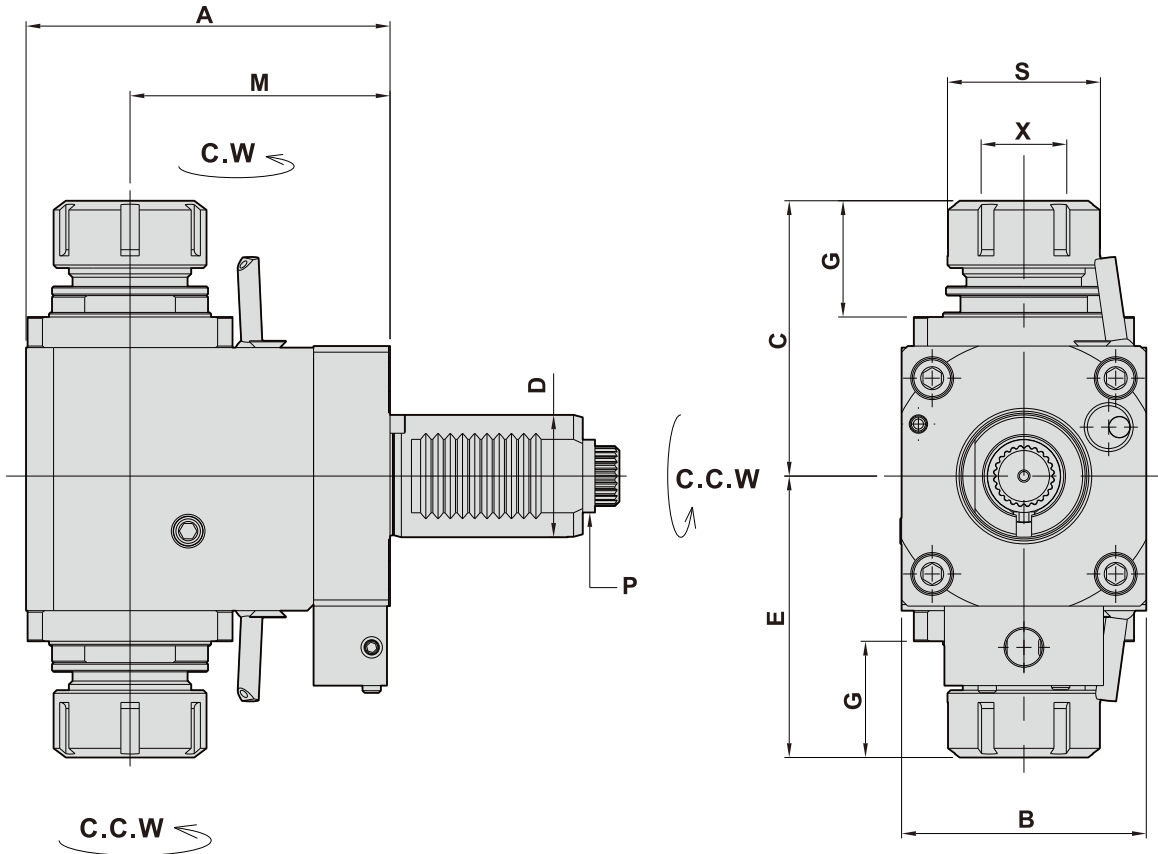


### DIMENSIONS

D DIN 69880	X Capacity	Maximum R.P.M	S	A	B	C	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

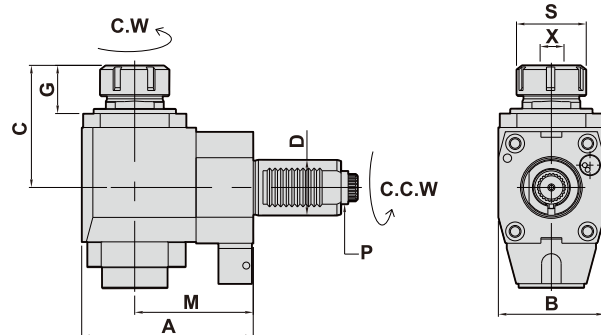
### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	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

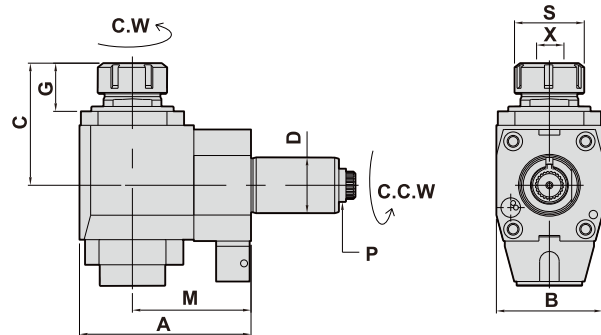
## RADIAL DRILLING AND MILLING HEAD

### 徑向鑽銑刀座 (90°)

MODE:FL  
LEFT-HAND



MODE:FR  
RIGHT-HAND



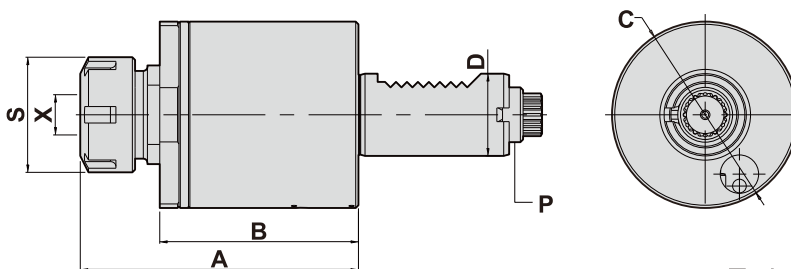
- To be used for collet DIN 6499
- Internal coolant supply:50bar 中心出水
- Collet is not included

### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	G	M	P DIN 5480	Code No.	Order No.	(Kg) Weight
40	2-20 ER32	50	5000	1:1	103	76	89.5	36.5	65	W20x0.8	240246-000	CWFR4054803265	6.1
											240266-000	CWFL4054803265	
40	2-20 ER32	50	5000	1:1	123	76	89.5	36.5	85	W20x0.8	240254-000	CWFR4054803285	6.8
											240274-000	CWFL4054803285	
40	2-20 ER32	50	5000	1:1	138	76	89.5	36.5	100	W20x0.8	240257-000	CWFR40548032100	7.6
											240277-000	CWFL40548032100	

## 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

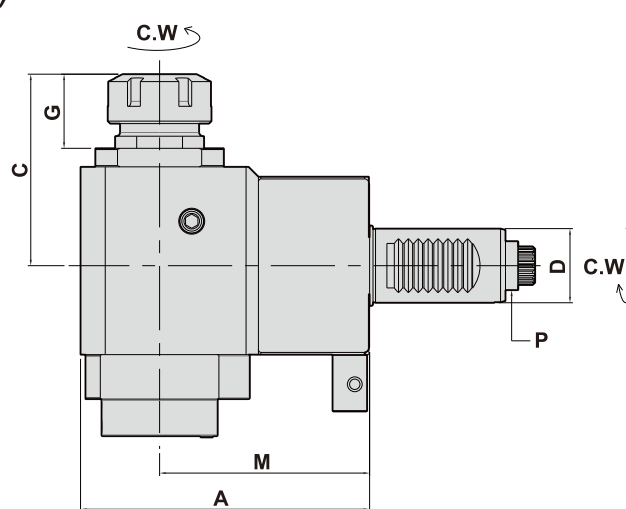
### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	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

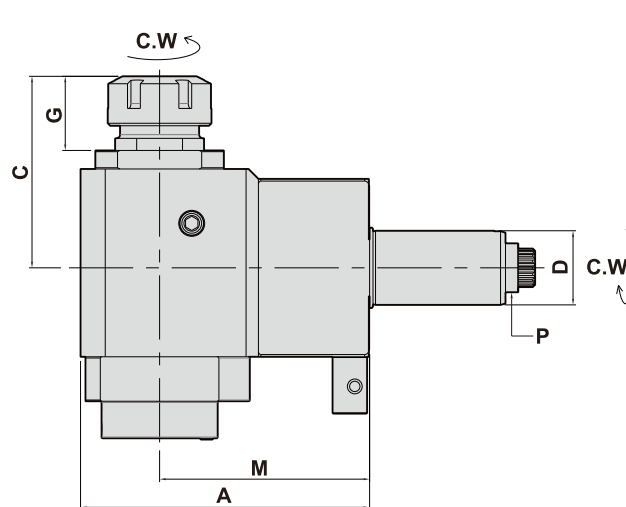
## RADIAL MILLING AND DRILLING HEAD

### 徑向鑽銑刀座 (90°)

MODE : FL  
LEFT-HAND



MODE : FR  
RIGHT-HAND



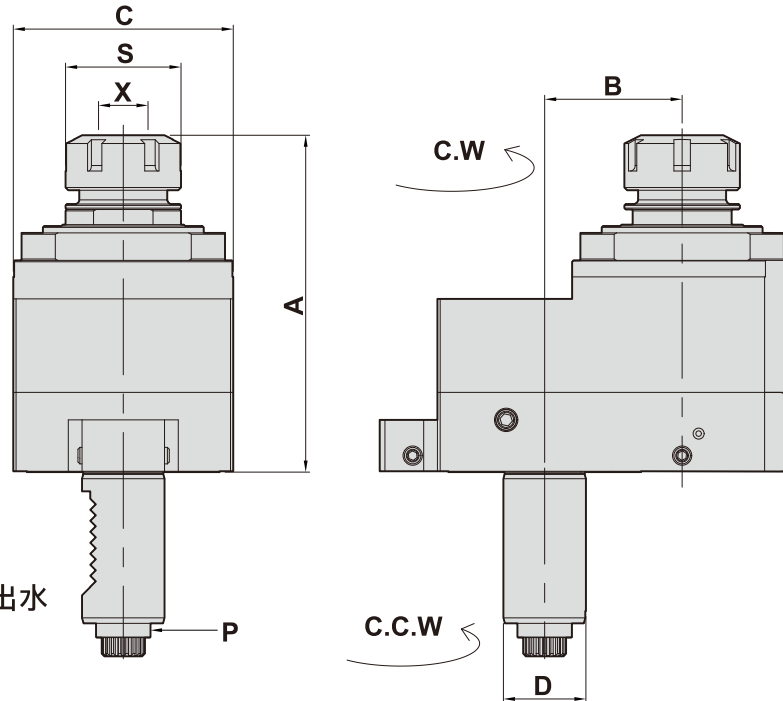
- To be used for collet DIN 6499
- Internal coolant supply: 50bar 中心出水
- Collet is not included

### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	G	M	P DIN 5480	Code No.	Order No.	(Kg) Weight
30	1-16 ER25	42	4000	1:1	87	64	79	30	55	W16x0.8	230286-000	CWNFR3054802555	3.9
											2302112000	CWNFL3054802555	
30	1-16 ER25	42	4000	1:1	117	64	79	30	85	W16x0.8	230294-000	CWNFR3054802585	5
											2302113000	CWNFL3054802585	
30	1-16 ER25	42	4000	1:1	132	64	79	30	100	W16x0.8	230295-000	CWNFR30548025100	5.6
											2302114000	CWNFL30548025100	
40	2-20 ER32	50	4000	1:1	103	76	90	32.5	62	W20x0.8	240286-000	CWNFR4054803265	6.5
											2402106000	CWNFL4054803265	
50	3-26 ER40	63	4000	1:1	123	88	115.5	49	75	W24x1.25	250286-000	CWNFR5054804075	12.3
											2502106000	CWNFL5054804075	

## AXIAL DRILLING AND MILLING HEAD OFFSET

軸向偏心鑽銑刀座 (0°)



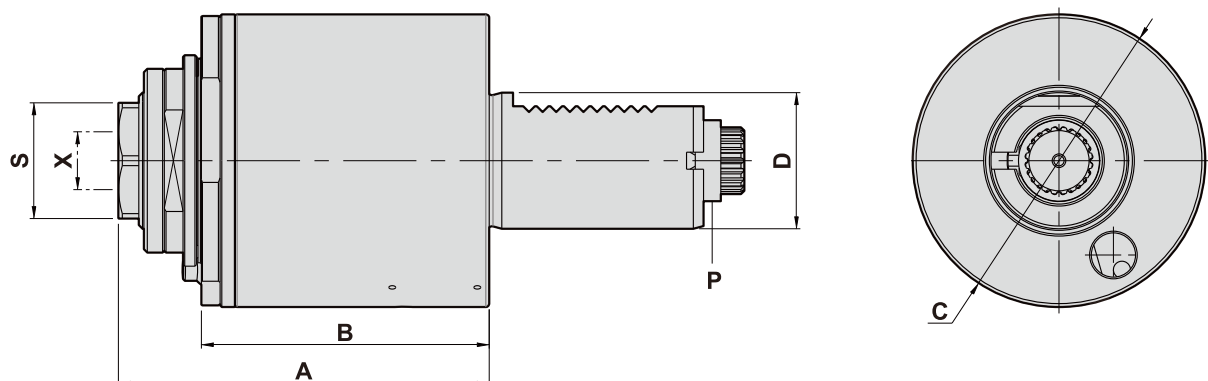
- To be used for collet DIN 6499
- Internal coolant supply :30bar 中心出水
- Collet is not included

### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	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°)



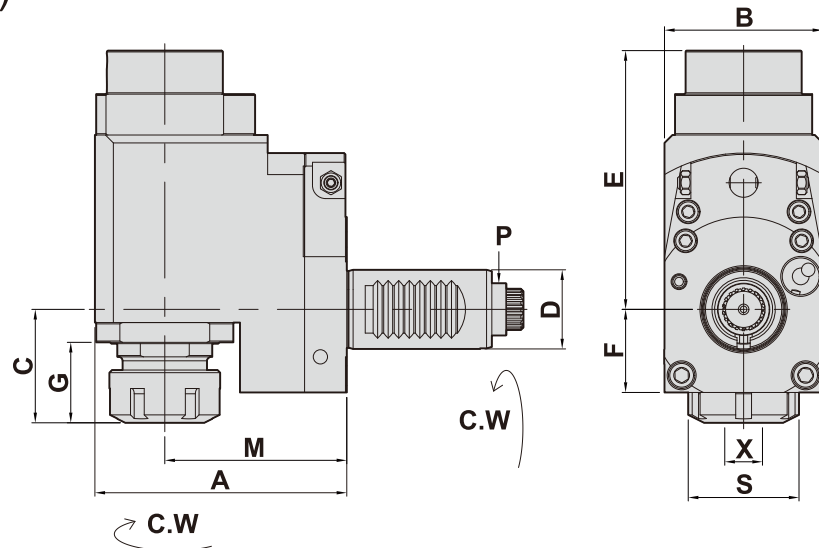
- To be used for collet DIN 6499
- Internal coolant supply:15bar 中心出水
- Collet is not included

### DIMENSIONS

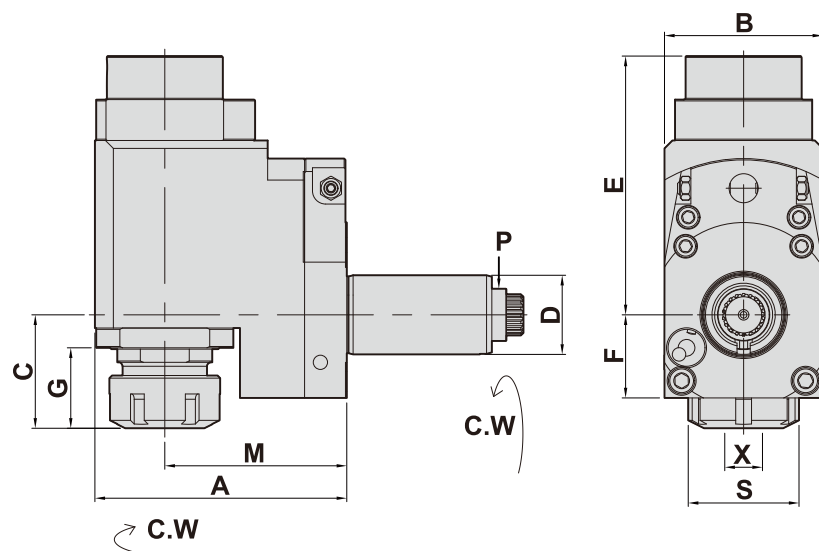
D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	P DIN 5480	Code No.	Order No.	(Kg) Weight
40	2-20 ER32	38	6000	1:1	109	85	86	W16x0.8	140220-000	CWDA40548032A	4.3

## RADIAL MILLING AND DRILLING HEAD OFFSET-後縮型 (90°)

MODE : BR  
RIGHT-HAND



MODE : BL  
LEFT-HAND



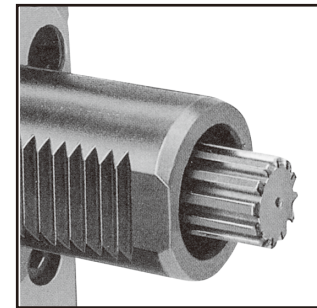
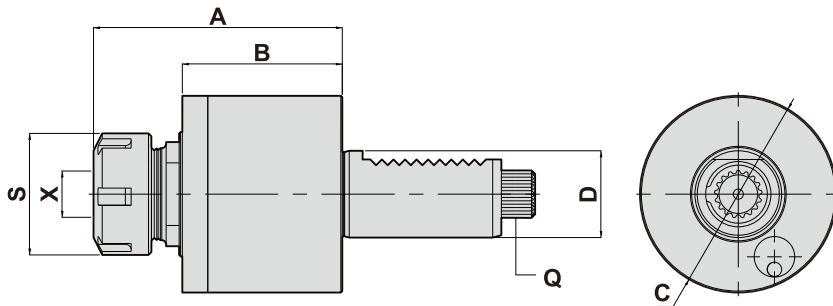
- To be used for collet DIN 6499
- Internal coolant supply:50bar 中心出水
- Collet is not included

### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	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
40	2-20 ER32	50	5000	1:1	128	80	47	130	42	36	90	W20x0.8	240206-000	CWBR4054803290	9.7
													240226-000	CWBL4054803290	
50	3-26 ER40	63	5000	1:1	129	86	48.5	133	42	38.5	90	W24x1.25	250206-000	CWBR5054804090	12.4
													250226-000	CWBL5054804090	



## 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

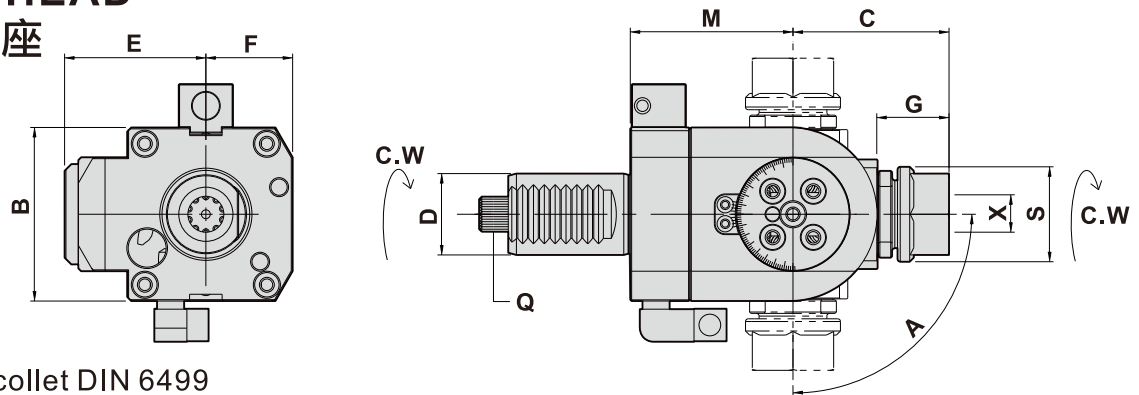
D DIN 69880	X Capacity		S	Maximum R.P.M	i	A	B	C	Q DIN 5482	Code No.	Order No.	(Kg) Weight
30	1-16	ER25	42	6000	1:1	101	72	68	B15x12	130301-000	DA30548225	2.2
40	1-16	ER25	42	6000	1:1	108.5	74.5	86	B17x14	140327-000	DA40548225	3.7
40	2-20	ER32	50	6000	1:1	112.5	74.5	86	B17x14	140301-000	DA40548232	3.8
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°)

### DIMENSIONS

D DIN 69880	X Capacity		S	Maximum R.P.M	i	A	B	C	Q DIN 5482	Code No.	Order No.	(Kg) Weight
30	1-10	ER16	30	3000	1:1	108	71.5	68	B15x12	130316-000	TDA30548216	2.2
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 萬向鑽銑刀座

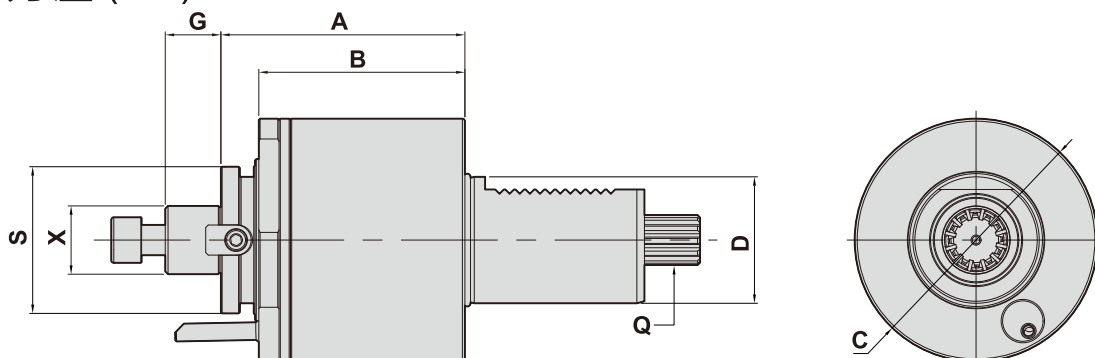


- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

### DIMENSIONS

D DIN 69880	X Capacity	Maximum R.P.M	S	A	B	C	E	F	G	M	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

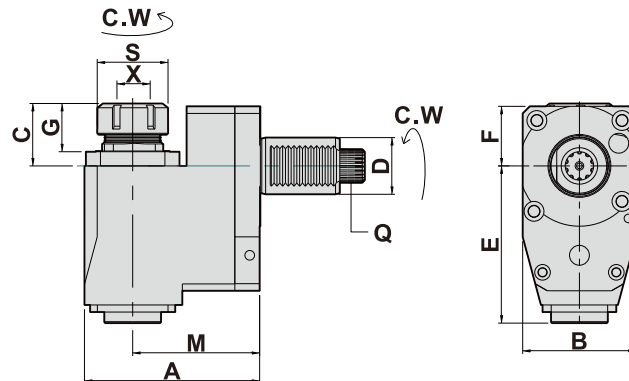
### DIMENSIONS

D DIN 69880	X Capacity	Maximum R.P.M	S	A	B	C	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

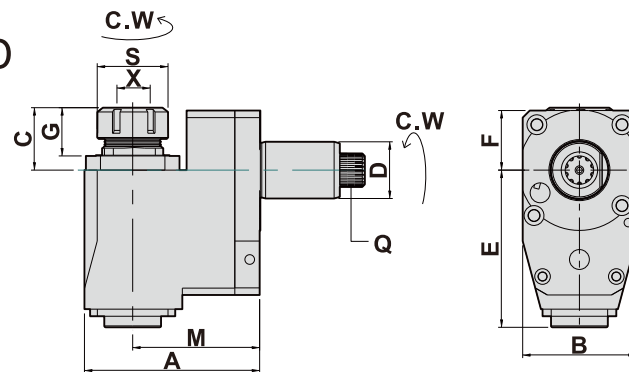
## RADIAL DRILLING AND MILLING HEAD OFFSET

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	B	C	E	F	G	M	Q DIN 5482	Code No.	Order No.	(Kg) Weight
30	1-16 ER25	42	5000	1:1	98	60	44	75.5	31.5	30	72	B15x12	230301-000	BR3054822572	3.5
													230321-000	BL3054822572	
40	2-20 ER32	50	5000	1:1	124	80	44	111	43	33	90	B17x14	240301-000	BR4054823290	8.2
													240321-000	BL4054823290	
50	3-26 ER40	63	5000	1:1	129	86	50	112	42	40	90	B20x17	250301-000	BR5054824090	10
													250321-000	BL5054824090	
60	10-34 ER50	78	5000	1:1	154	104	76	123	54	53	106	B25x22	260301-000	BR60548250106	16.4
													260321-000	BL60548250106	

## RADIAL TAPPING HEAD

徑向彈性攻牙刀座-後縮型 (90°)

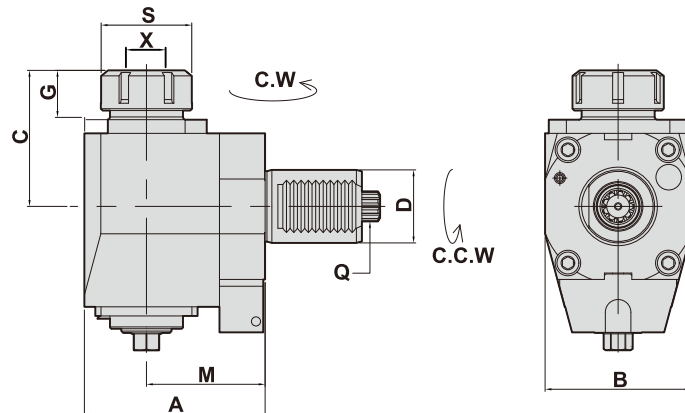
### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	E	F	G	M	Q DIN 5482	Code No.	Order No.	(Kg) Weight
30	1-10 ER16	30	3000	1:1	98	60	44	75.5	31.5	38.5	72	B15x12	230305-000	TBR3054821672	3.5
													230325-000	TBL3054821672	
40	1-13 ER20	35	3000	1:1	124	80	59.5	110	42	49.5	90	B17x14	240305-000	TBR4054822090	8.4
													240325-000	TBL4054822090	
50	1-16 ER25	42	3000	1:1	129	86	54	112	45	55	90	B20x17	250305-000	TBR5054822590	10.2
													250325-000	TBL5054822590	
60	2-20 ER32	50	3000	1:1	154	104	105	118	54	82.5	106	B25x22	260305-000	TBR60548232106	16.6
													260325-000	TBL60548232106	

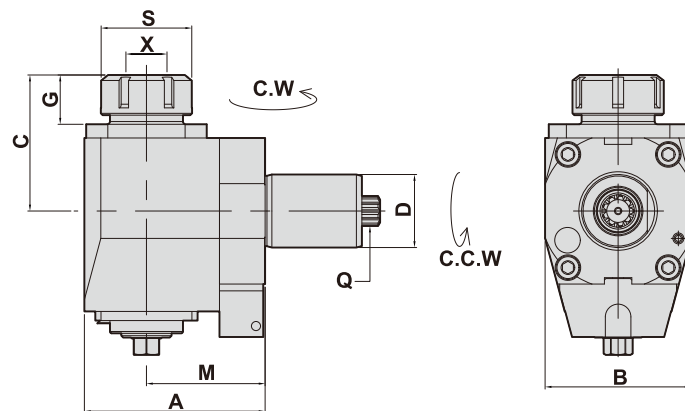
## RADIAL DRILLING AND MILLING HEAD

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	i	A	B	C	G	M	Q DIN 5482	Code No.	Order No.	(Kg) Weight
30	1-16 ER25	42	5000	1:1	97	64	75	26	65	B15x12	230341-000	FR3054822565	4
					117	64	75	26	85		230361-000	FL3054822565	
30	1-16 ER25	42	5000	1:1	117	64	75	26	85	B15x12	230348-000	FR3054822585	4.7
					119	64	75	26	85		230368-000	FL3054822585	
40	2-20 ER32	50	5000	1:1	99	80	80	29	65	B17x14	240341-000	FR4054823265	5.9
					119	80	80	29	85		240361-000	FL4054823265	
40	2-20 ER32	50	5000	1:1	99	80	80	29	85	B17x14	240348-000	FR4054823285	6.9
					119	80	80	29	85		240368-000	FL4054823285	

## RADIAL TAPPING HEAD

徑向彈性攻牙刀座 (90°)

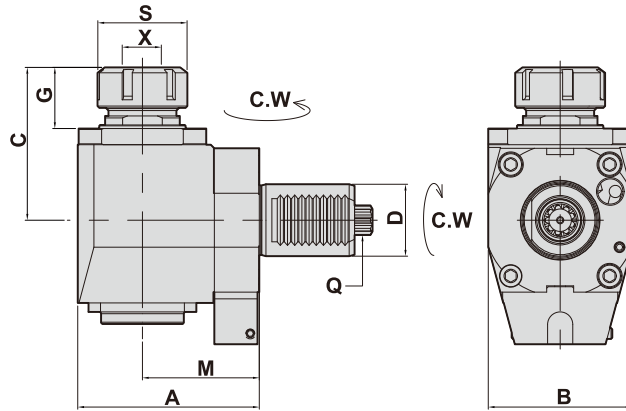
### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	G	M	Q DIN 5482	Code No.	Order No.	(Kg) Weight
30	1-10 ER16	30	3000	1:1	87	64	87	37	65	B15x12	230345-000	TFR3054821665	4.1
					117	64	87	37	85		230365-000	TFL3054821665	
30	1-10 ER16	30	3000	1:1	117	64	87	37	85	B15x12	230350-000	TFR3054821685	4.8
					119	64	87	37	85		230370-000	TFL3054821685	
40	1-13 ER20	35	3000	1:1	99	80	94	46	65	B17x14	240345-000	TFR4054822065	6
					119	80	94	46	85		240365-000	TFL4054822065	
40	1-13 ER20	35	3000	1:1	99	80	94	46	85	B17x14	240350-000	TFR4054822085	7
					119	80	94	46	85		240370-000	TFL4054822085	

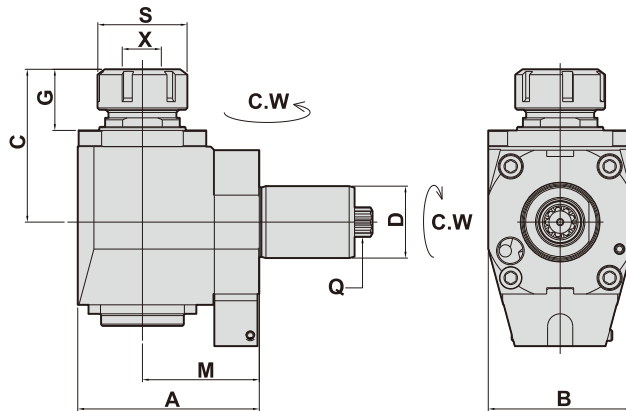
## RADIAL DRILLING AND MILLING HEAD

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	i	A	B	C	G	M	Q DIN 5482	Code No.	Order No.	(Kg) Weight
40	2-20 ER32	50	5000	1:1	101	80	85	34	65	B17x14	240381-000	NFR4054823265	6
					121	80	85	34	85	B17x14	2403101000	NFL4054823265	
40	2-20 ER32	50	5000	1:1	115	88	110	43	75	B20x17	250388-000	NFR4054823285	7
					121	80	85	34	85	B17x14	2403108000	NFL4054823285	
50	3-26 ER40	63	5000	1:1	115	88	110	43	75	B20x17	250388-000	NFR5054824075	9.8
					121	80	85	34	85	B17x14	2503108000	NFL5054824075	
60	10-34 ER50	78	5000	1:1	156	104	139	56.5	106	B25x22	260381-000	NFR60548250106	18
					121	80	85	34	85	B17x14	2603101000	NFL60548250106	

## RADIAL TAPPING HEAD

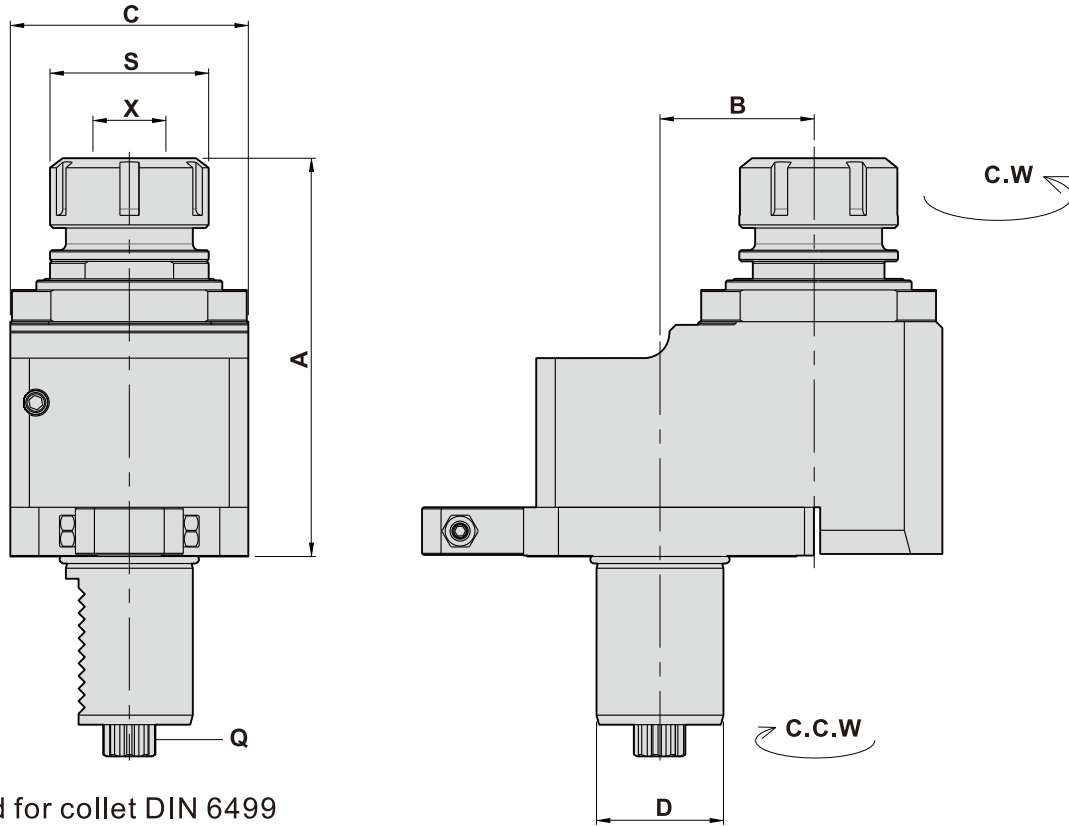
徑向彈性攻牙刀座 (90°)

### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	G	M	Q DIN 5482	Code No.	Order No.	(Kg) Weight
40	1-13 ER20	35	3000	1:1	101	80	105	25	65	B17x14	240385-000	NFR4054822065	6.1
					121	80	105	25	85	B17x14	2403105000	NTFL4054822065	
40	1-13 ER20	35	3000	1:1	115	88	105	42	75	B20x17	240390-000	NFR4054822085	7.1
					121	80	105	25	85	B17x14	2403110000	NTFL4054822085	
50	1-16 ER25	42	3000	1:1	115	88	105	42	75	B20x17	250385-000	NFR5054822575	10
					121	80	105	25	85	B17x14	2503105000	NTFL5054822575	

## 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

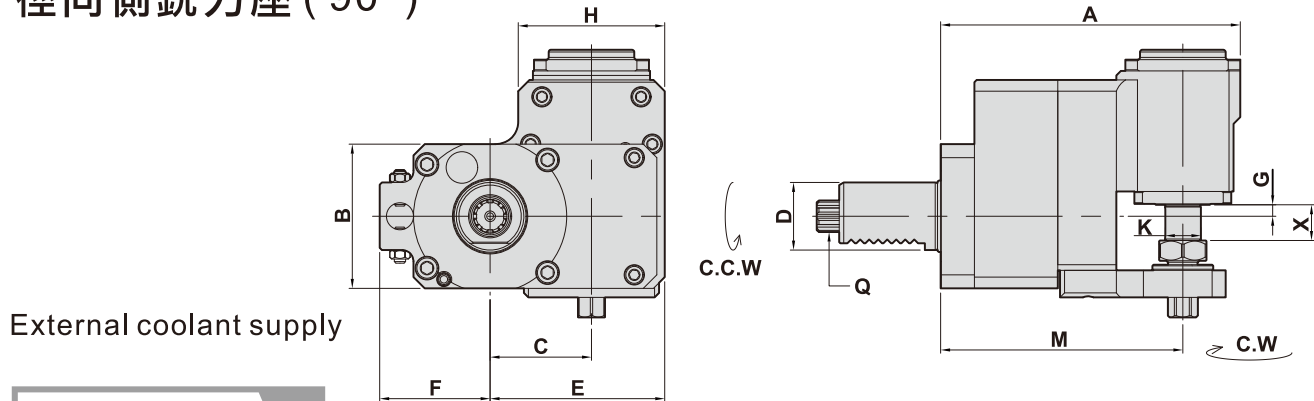
### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	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
* 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

徑向側銑刀座 (90°)



External coolant supply

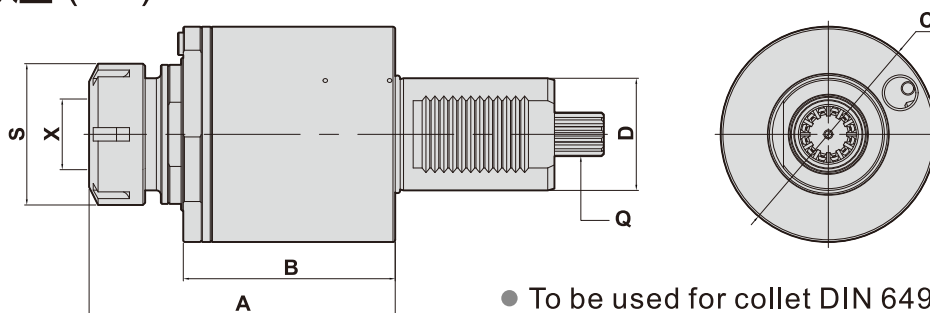
### DIMENSIONS

D DIN 69880	X Capacity	Maximum R.P.M	i	A	B	C	E	F	G	H	K	M	Q DIN 5482	Code No.	Order No.	(Kg) Weight
30	16	3000	3:1	133	64	45	77.5	49	5	65	16	107.5	B15x12	230307-000	BR30548216C/3	5.8
														230327-000	BL30548216C/3	
30	16	3000	3:1	133	64	45	77.5	49	5	65	25.4	107.5	B15x12	230309-000	BR30548225.4C/3	6.1
														230329-000	BL30548225.4C/3	
40	16	3000	3:1	136	70	45	77.5	75	5	65	16	110.5	B17x14	240307-000	BR40548216C/3	6.4
														240327-000	BL40548216C/3	
40	16	3000	3:1	136	70	45	77.5	75	5	65	25.4	100.5	B17x14	240309-000	BR40548225.4C/3	6.7
														240329-000	BL40548225.4C/3	

\* 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

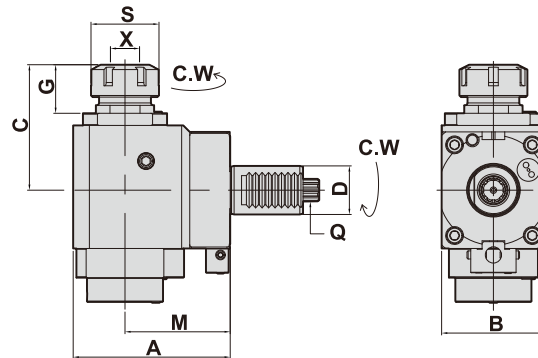
### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	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

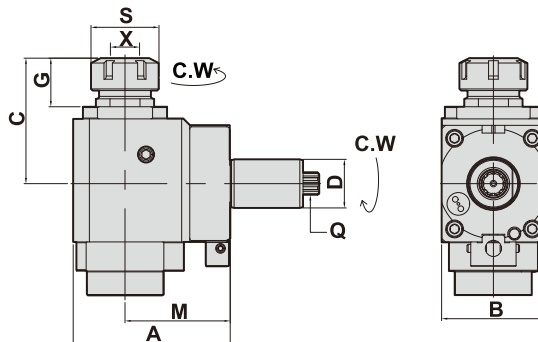
## RADIAL MILLING AND DRILLING HEAD FORWARD

徑向鑽銑刀座 (90°)

MODE : FL  
LEFT-HAND



MODE : FR  
RIGHT-HAND



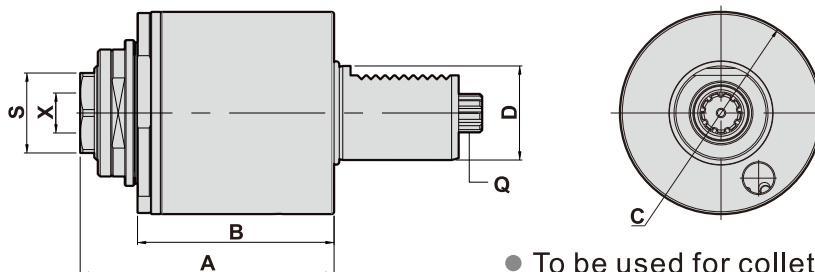
- To be used for collet DIN 6499
- Internal coolant supply: 50bar 中心出水
- Collet is not included

### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	G	M	Q DIN 5482	Code No.	Order No.	(Kg) Weight
30	1-16 ER25	42	5000	1:1	97	64	79	30	65	B15x12	230386-000	CWNFR3054822565	4.3
					117	79	30	85	2303106000		CWNFL3054822565		
30	1-16 ER25	42	5000	1:1	103	64	79	30	85	B15x12	230394-000	CWNFR3054822585	5
					117	79	30	85	2303107000		CWNFL3054822585		
40	2-20 ER32	50	5000	1:1	103	76	90	33	65	B17x14	240386-000	CWNFR4054823265	6.1
					117	76	90	33	65		2403106000	CWNFL4054823265	
50	3-26 ER40	63	5000	1:1	123	88	116	49	75	B20x17	250386-000	CWNFR5054824075	12.1
					123	88	116	49	75		2503106000	CWNFL5054824075	

## AXIAL MILLING AND DRILLING HEAD

軸向鑽銑刀座 (0°)



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

### DIMENSIONS

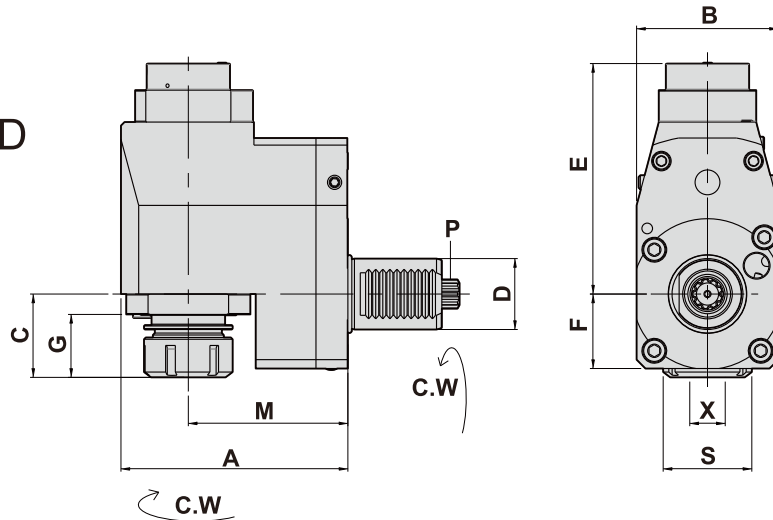
D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	Q DIN 5482	Code No.	Order No.	(Kg) Weight
40	1-16 ER25	30	6000	1:1	106	84	86	B17x14	140325-000	CWDA40548225A	4.1
40	2-20 ER32	38	6000	1:1	108	84	86	B17x14	140320-000	CWDA40548232A	4



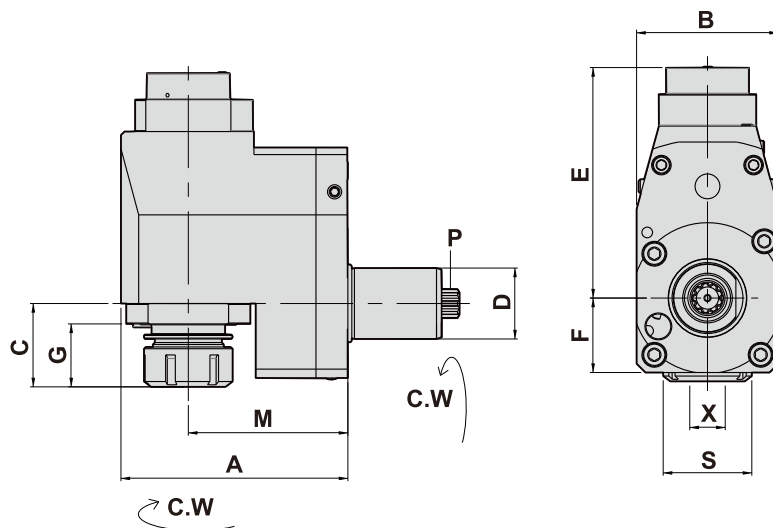
## RADIAL MILLING AND DRILLING HEAD OFFSET

後縮型 (90°)

MODE : BR  
RIGHT-HAND



MODE : BL  
LEFT-HAND



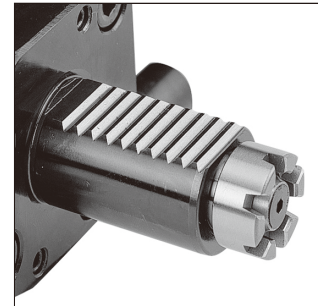
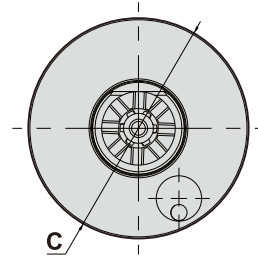
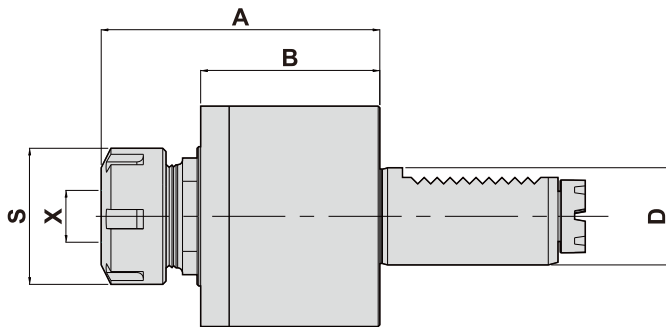
- To be used for collet DIN 6499
- Internal coolant supply:50bar 中心出水
- Collet is not included

### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	E	F	G	M	Q DIN 5482	Code No.	Order No.	(Kg) Weight
40	2-20 ER25	50	5000	1:1	128	80	47	130	42	35.5	90	B17x14	240306-000	CWBR4054823290	9
													240326-000	CWBL4054823290	
50	3-26 ER32	63	5000	1:1	129	86	48.5	133	42	38.5	90	B20x17	250306-000	CWBR5054824090	10.4
													250326-000	CWBL5054824090	
60	10-34 ER50	78	5000	1:1	154	104	71.5	152	54	49	106	B25x22	260306-000	CWBR60548250106	17.2
													260326-000	CWBL60548250106	

## 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	X Capacity		S	Maximum R.P.M	i	A	B	C	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

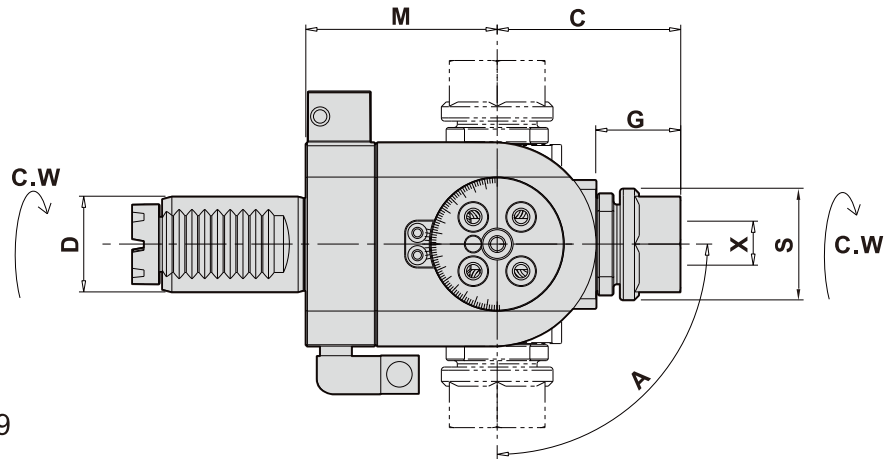
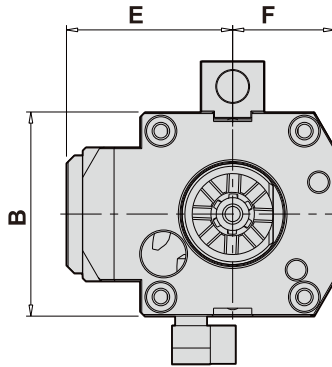
## AXIAL TAPPING HEAD

軸向彈性攻牙刀座 (0°)

### DIMENSIONS

D DIN 69880	X Capacity		S	Maximum R.P.M	i	A	B	C	Code No.	Order No.	(Kg) Weight
30	1-10	ER16	30	3000	1 : 1	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



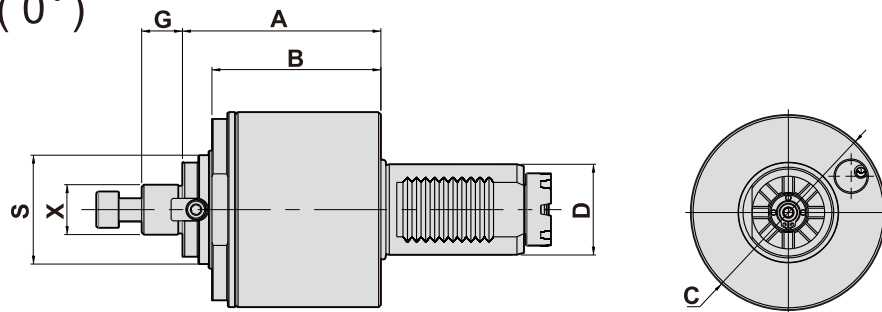
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

### DIMENSIONS

D DIN 69880	X Capacity	Maximum R.P.M	S	A	B	C	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

### 軸向銑削刀座 (0°)



### DIMENSIONS

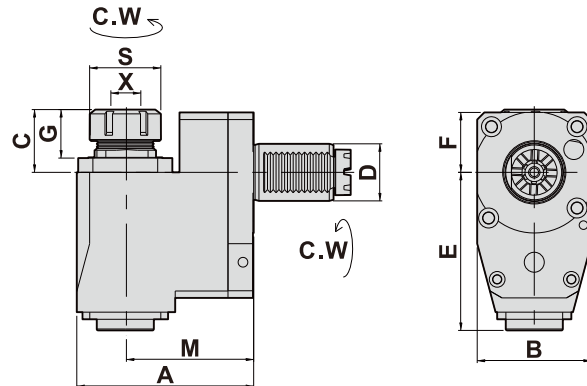
- To be used for cutter arbor according to DIN 6358
- External coolant

D DIN 69880	X DIN 6358	Maximum R.P.M	S	A	B	C	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
* 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

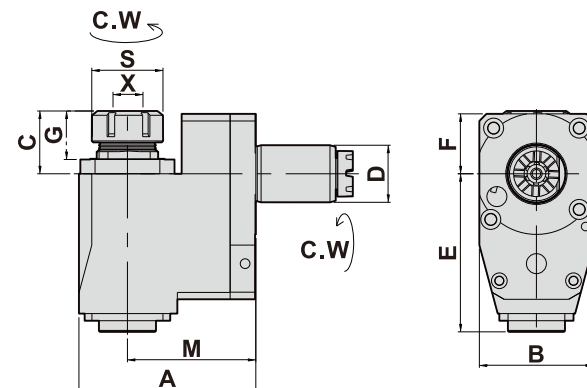
\* 特殊

## 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	B	C	E	F	G	M	Code No.	Order No.	(Kg) Weight
20	1-10 ER16	30	5000	1:1	83	50	35	70	27	29	60	220401-000	BR20MT1660	2.2
												220421-000	BL20MT1660	
30	1-16 ER25	42	5000	1:1	98	60	42	76	32	30	72	230401-000	BR30MT2572	3.5
												230421-000	BL30MT2572	
40	2-20 ER32	50	5000	1:1	124	80	44	110	42	35	90	240401-000	BR40MT3290	8.2
												240421-000	BL40MT3290	
50	3-26 ER40	63	5000	1:1	129	86	49	112	45	40	90	250401-000	BR50MT4090	10
												250421-000	BL50MT4090	
60	10-34 ER50	78	5000	1:1	154	104	76	123	54	54	106	260401-000	BR60MT50106	16.4
												260421-000	BL60MT50106	
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°)

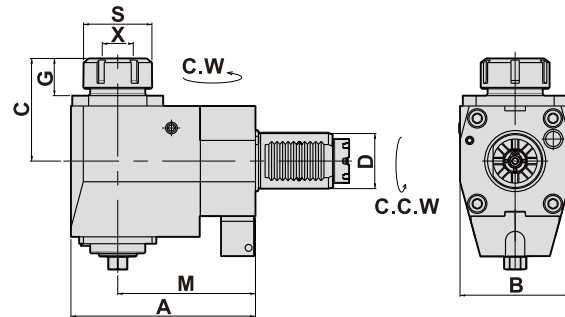
### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	E	F	G	M	Code No.	Order No.	(Kg) Weight
30	1-10 ER16	30	3000	1:1	98	60	51	76	32	38.5	72	230405-000	TBR30MT1672	3.5
												230425-000	TBL30MT1672	
40	1-13 ER20	35	3000	1:1	124	80	59.5	110	42	49.5	90	240405-000	TBR40MT2090	8.4
												240425-000	TBL40MT2090	
50	2-16 ER25	42	3000	1:1	129	86	54	112	45	36	90	250405-000	TBR50MT2590	10.2
												250425-000	TBL50MT2590	
60	2-20 ER32	50	3000	1:1	154	104	105	118	54	82.5	106	260405-000	TBR60MT32106	16.6
												260425-000	TBL60MT32106	

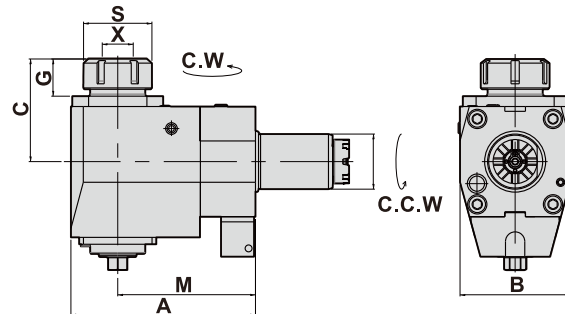
## RADIAL DRILLING AND MILLING HEAD

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	i	A	B	C	G	M	Code No.	Order No.	(Kg) Weight
20	1-10 ER16	30	5000	1:1	67	50	66	27	45	220441-000	FR20MT1645	1.7
										220461-000	FL20MT1645	
20	1-10 ER16	30	5000	1:1	92	50	66	27	70	220448-000	FR20MT1670	2.3
										220468-000	FL20MT1670	
30	1-16 ER25	42	5000	1:1	97	64	75	26	65	230441-000	FR30MT2565	4
										230461-000	FL30MT2565	
30	1-16 ER25	42	5000	1:1	117	64	75	26	85	230448-000	FR30MT2585	4.7
										230468-000	FL30MT2585	
40	2-20 ER32	50	5000	1:1	99	80	80	29	65	240441-000	FR40MT3265	6
										240461-000	FL40MT3265	
40	2-20 ER32	50	5000	1:1	119	80	80	29	85	240448-000	FR40MT3285	7
										240468-000	FL40MT3285	
40	2-20 ER32	50	5000	1:1	134	80	80	29	100	240449-000	FR40MT32100	7.6
										240469-000	FL40MT32100	
40	2-20 ER32	50	5000	1:1	144	80	80	29	110	240452-000	FR40MT32110	8.1
										240477-000	FL40MT32110	
40	2-20 ER32	50	5000	1:1	154	80	80	29	120	240460-000	FR40MT32120	8.3
										240480-000	FL40MT32120	

## RADIAL TAPPING HEAD

徑向彈性攻牙刀座 (90°)

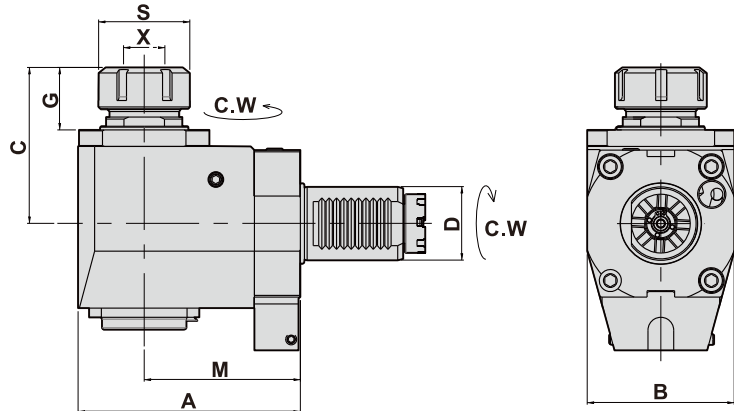
### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	G	M	Code No.	Order No.	(Kg) Weight
30	1-10 ER16	30	3000	1:1	97	64	87	37	65	230445-000	TFR30MT1665	4.1
										230465-000	TFL30MT1665	
30	1-10 ER16	30	3000	1:1	117	64	87	37	85	230450-000	TFR30MT1685	4.8
										230470-000	TFL30MT1685	
40	1-13 ER20	35	3000	1:1	99	80	94	46	65	240445-000	TFR40MT2065	6.1
										240465-000	TFL40MT2065	
40	1-13 ER20	35	3000	1:1	119	80	94	46	85	240450-000	TFR40MT2085	7.1
										240470-000	TFL40MT2085	
50	1-16 ER25	42	3000	1:1	115	88	103	42	75	250450-000	TFR50MT2575	8.8
										250465-000	TFL50MT2575	

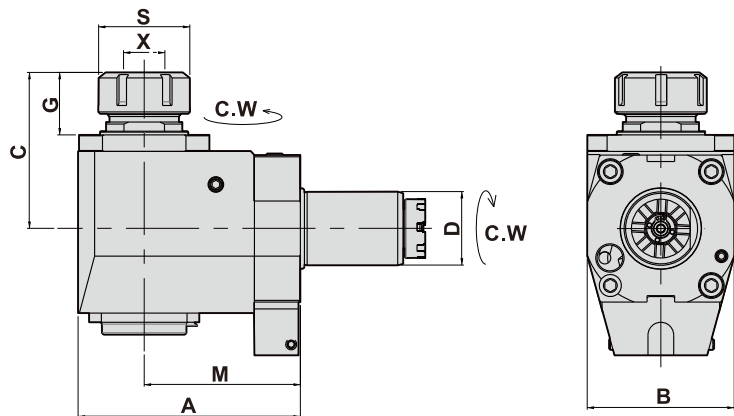
## RADIAL DRILLING AND MILLING HEAD

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	i	A	B	C	G	M	Code No.	Order No.	(Kg) Weight
40	2-20 ER32	50	5000	1:1	101	80	85	34	65	240481-000	NFR40MT3265	6
					121	80	85	34	85	2404101000	NFL40MT3265	
40	2-20 ER32	50	5000	1:1	121	80	85	34	85	240488-000	NFR40MT3285	7
					136	80	85	34	100	2404108000	NFL40MT3285	
40	2-20 ER32	50	5000	1:1	136	80	85	34	100	240489-000	NFR40MT32100	7.6
					115	88	110	43	75	2404109000	NFL40MT32100	
50	3-26 ER40	63	5000	1:1	115	88	110	43	75	250481-000	NFR50MT4075	8.3
					156	104	139	56.5	106	2504101000	NFL50MT4075	
60	10-34 ER50	78	5000	1:1	156	104	139	56.5	106	260481-000	NFR60MT50106	18.2
					121	80	85	34	85	2604101000	NFL60MT50106	

## RADIAL TAPPING HEAD

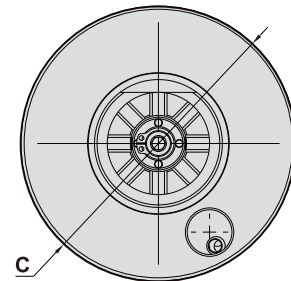
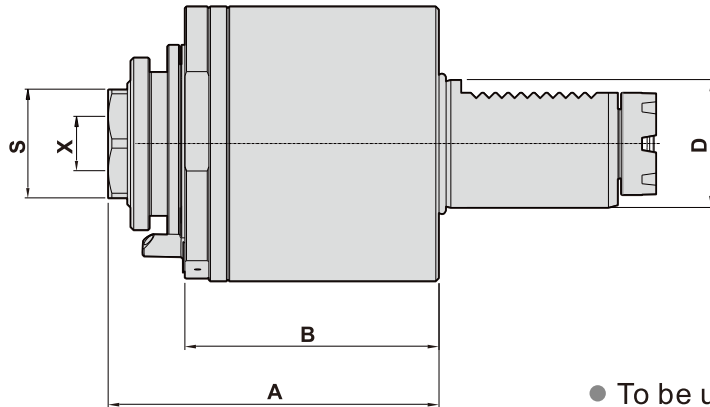
徑向彈性攻牙刀座 (90°)

### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	G	M	Code No.	Order No.	(Kg) Weight
40	1-13 ER20	35	3000	1:1	101	80	105	25	65	240485-000	NTFR40MT2065	6.1
					121	80	105	25	85	2404105000	NTFL40MT2065	
40	1-13 ER20	35	3000	1:1	121	80	105	25	85	240490-000	NTFR40MT2085	7.1
					115	88	103	42	75	2404110000	NTFL40MT2085	
50	1-16 ER25	42	3000	1:1	115	88	103	42	75	250490-000	NTFR50MT2575	8.4
					156	104	139	56.5	106	2504110000	NTFL50MT2575	

## 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

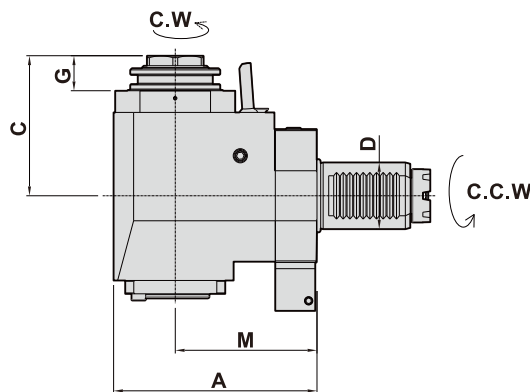
### DIMENSIONS

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

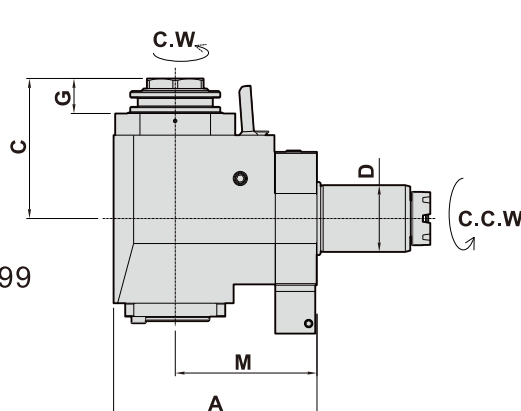
## RADIAL DRILLING AND MILLING HEAD

徑向鑽銑刀座 (90°)

MODE : FL  
LEFT-HAND



MODE : FR  
RIGHT-HAND

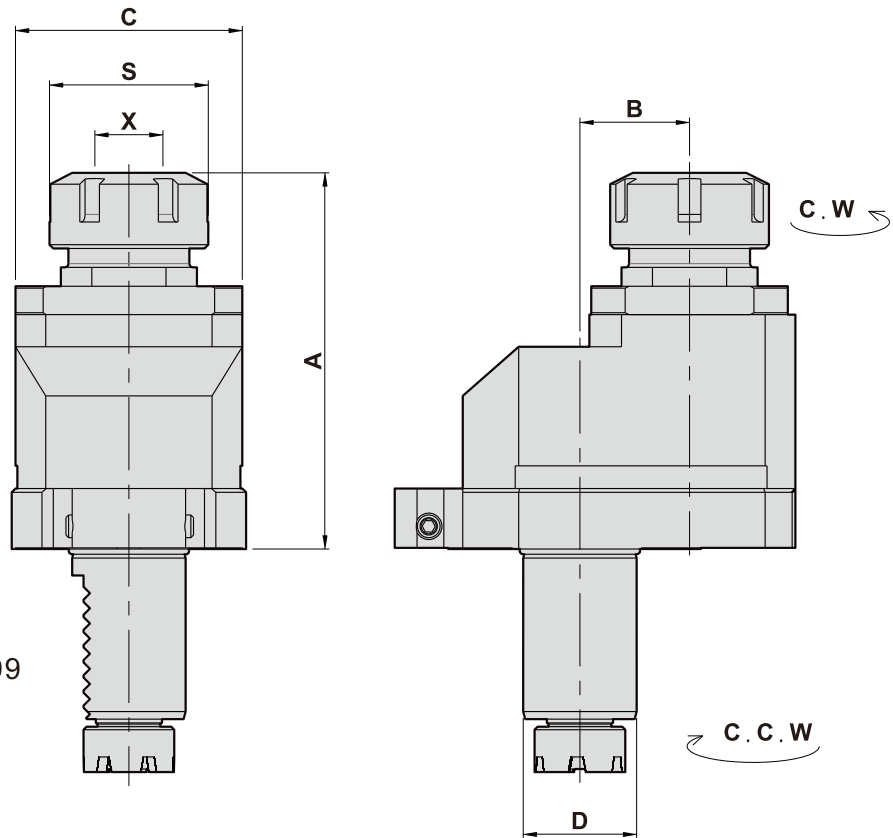


- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	G	M	Code No.	Order No.	(Kg) Weight
40	2-20 ER32	38	5000	1:1	122	80	84	21	85	240453-000	FR40MT32A85	7.3
										240473-000	FL40MT32A85	

## 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

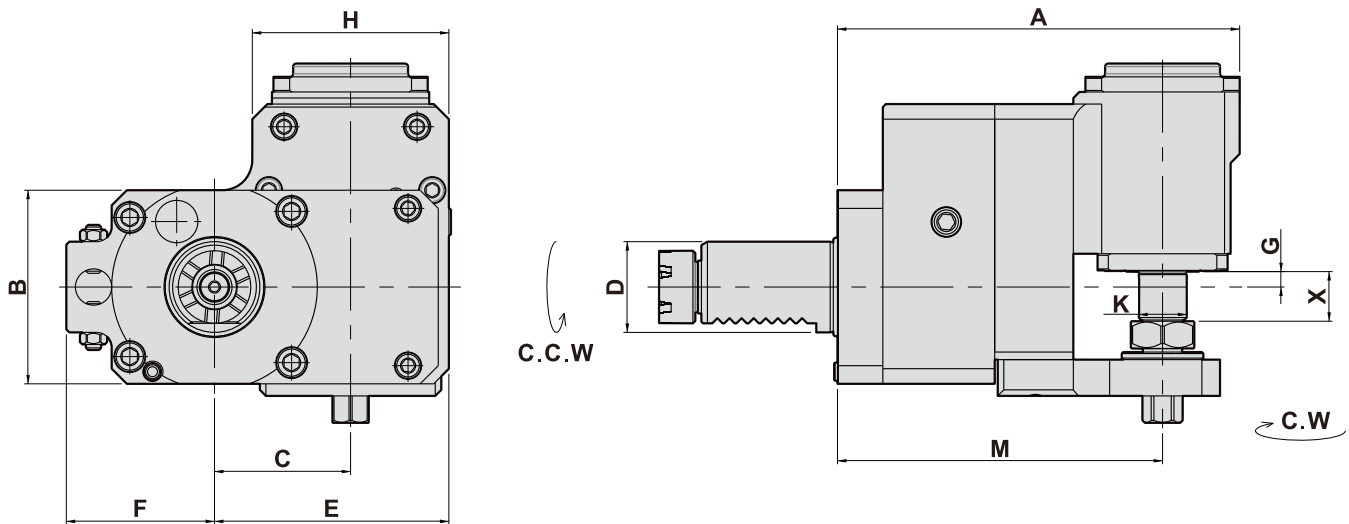
### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	Code No.	Order No.	(Kg) Weight
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
* 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°)



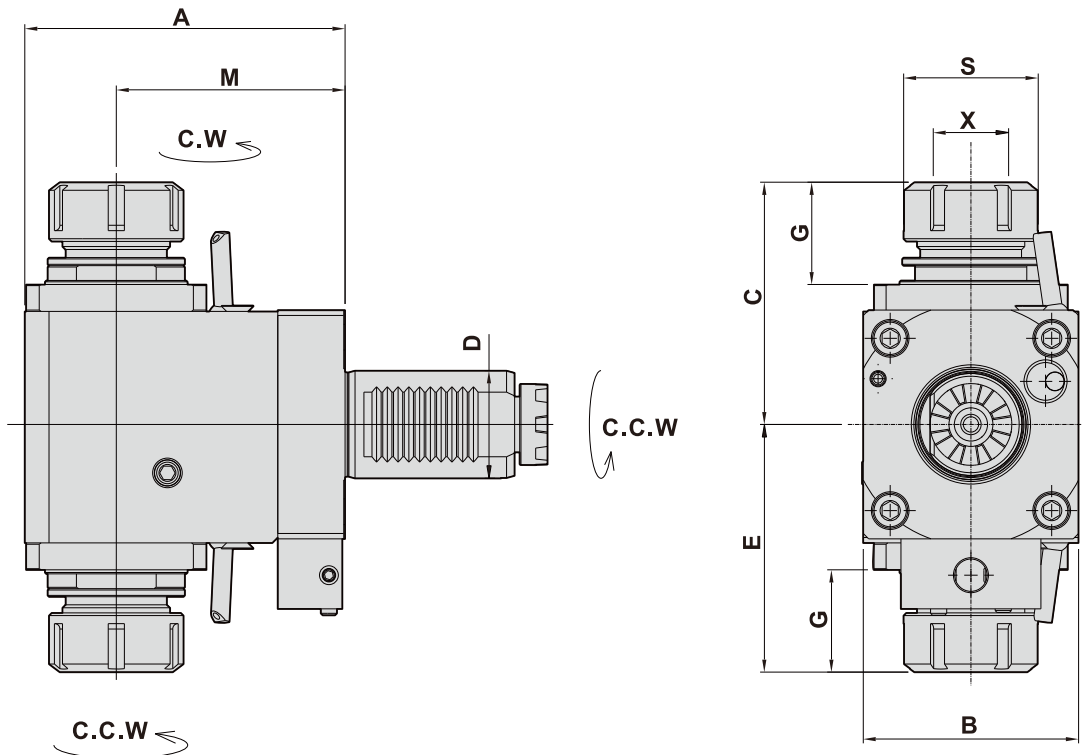
### DIMENSIONS

D DIN 69880	X Capacity	Maximum R.P.M	i	A	B	C	E	F	G	H	K	M	Code No.	Order No.	(Kg) Weight
30	16	3000	3:1	133	64	45	77.5	49	5	65	16	108	230407-000	BR30MT16C/3	5.8
													230427-000	BL30MT16C/3	
30	16	3000	3:1	133	64	45	77.5	49	5	65	25.4	108	230409-000	BR30MT25.4C/3	6.1
													230429-000	BL30MT25.4C/3	
40	16	3000	3:1	136	70	45	77.5	75	5	65	16	111	240407-000	BR40MT16C/3	6.4
													240427-000	BL40MT16C/3	
40	16	3000	3:1	136	70	45	77.5	75	5	65	25.4	111	240409-000	BR40MT25.4C/3	6.7
													240429-000	BL40MT25.4C/3	

\*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

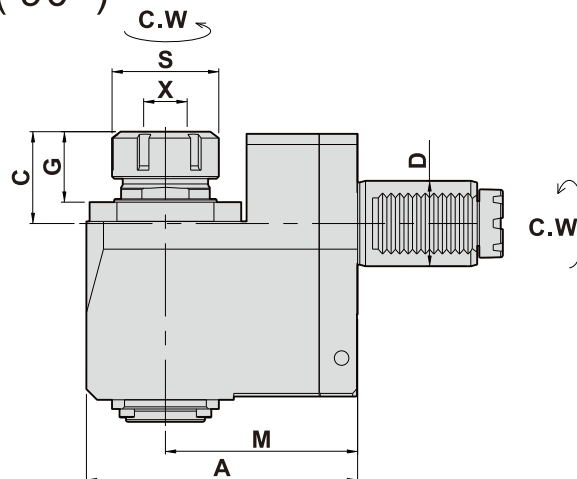
### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	E	G	M	Code No.	Order No.	(Kg) Weight
30	1-16 ER25	42	4000	1 : 1	112	64	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

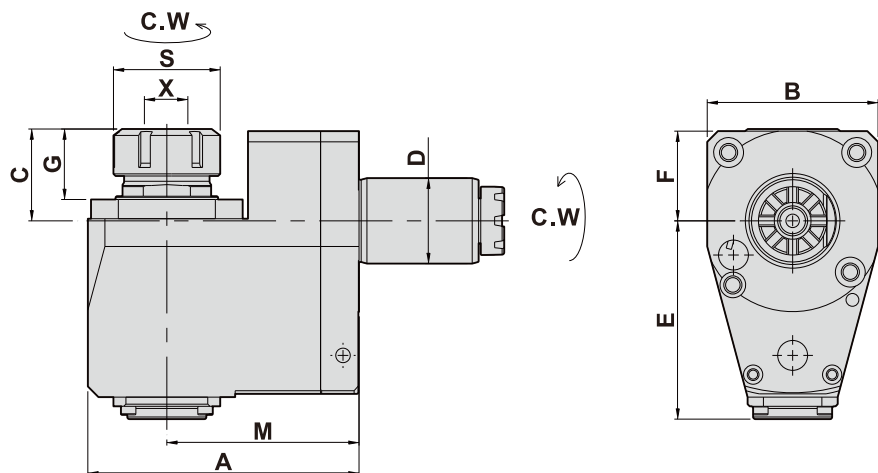
## RADIAL DRILLING AND MILLING HEAD OFFSET

徑向鑽銑刀座-後縮型 (90°)

MODE : BL  
LEFT-HAND



MODE : BR  
RIGHT-HAND



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

### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	E	F	G	M	Code No.	Order No.	(Kg) Weight
40	2-20 ER32	50	5000	1:1	127	80	47	92.8	42	37	90	240403-000	SHBR40MT3290	6.7
												240423-000	SHBL40MT3290	

## RADIAL TAPPING HEAD

徑向彈性攻牙刀座-後縮型 (90°)

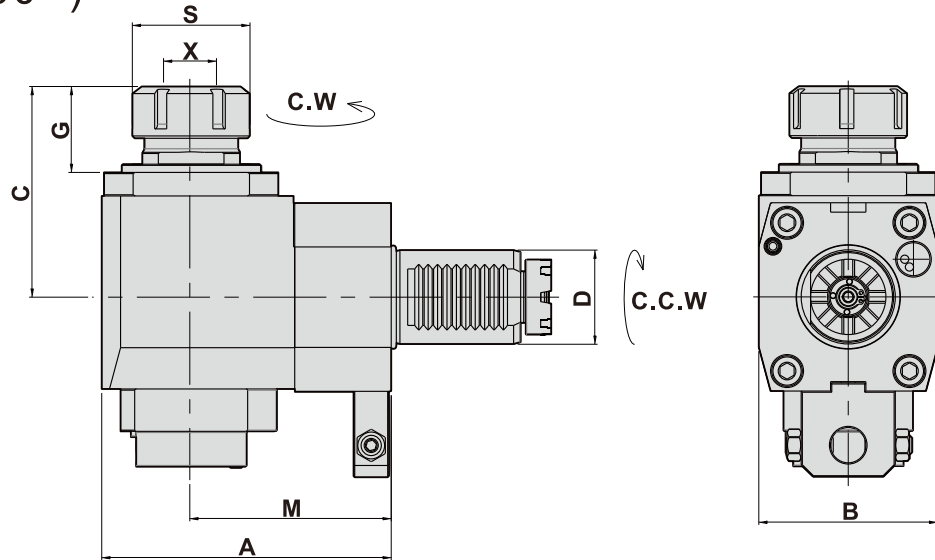
### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	E	F	G	M	Code No.	Order No.	(Kg) Weight
40	1-13 ER20	35	3000	1:1	127	80	62	92.8	42	49.5	90	240408-000	SHTBR40MT2090	6.9
												240428-000	SHTBL40MT2090	

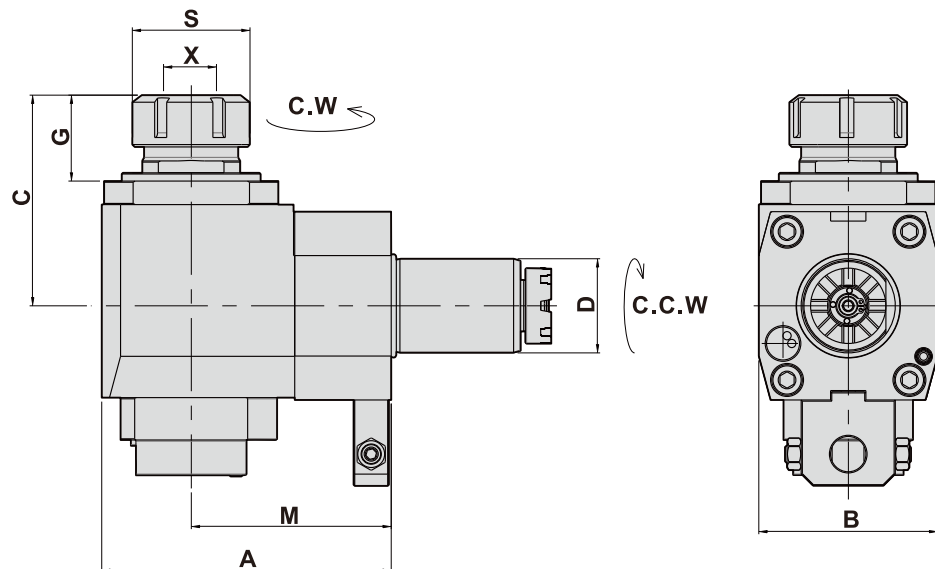
## RADIAL DRILLING AND MILLING HEAD

### 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

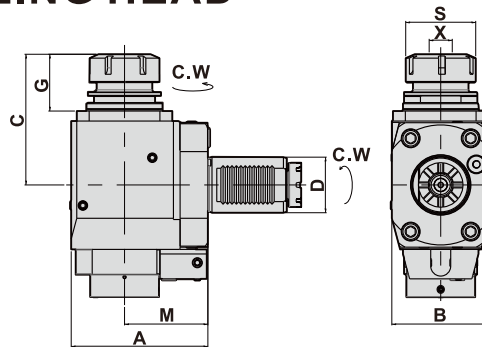
### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	G	M	Code No.	Order No.	(Kg) Weight
40	2-20 ER32	50	5000	1:1	103	76	89.5	36.5	65	240446-000	CWFR40MT3265	6.2
										240466-000	CWFL40MT3265	
40	2-20 ER32	50	5000	1:1	123	76	89.5	36.5	85	240454-000	CWFR40MT3285	6.8
										240474-000	CWFL40MT3285	
40	2-20 ER32	50	5000	1:1	138	76	89.5	36.5	100	240458-000	CWFR40MT32100	7.8
										240478-000	CWFL40MT32100	

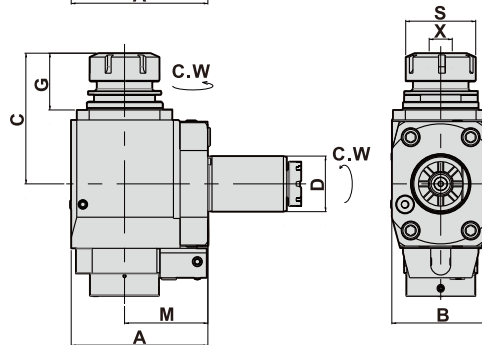
## RADIAL MILLING AND DRILLING HEAD

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

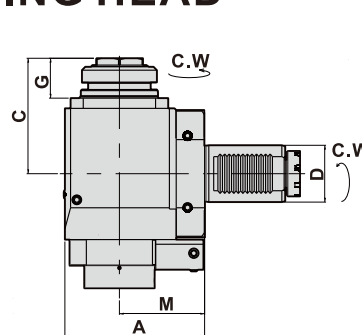
### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	G	M	Code No.	Order No.	(Kg) Weight
50	3-26 ER40	63	5000	1:1	123	88	118	51	75	250486-000	CWNFR50MT4075	12.3
										2504106000	CWNFL50MT4075	

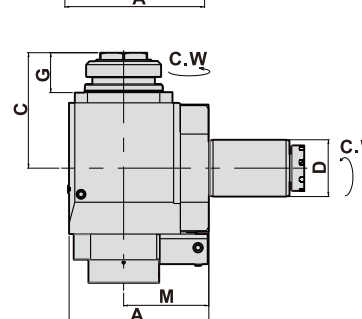
## RADIAL MILLING AND DRILLING HEAD

徑向鑽銑刀座 ( 90° )

MODE : FL  
LEFT-HAND



MODE : FR  
RIGHT-HAND



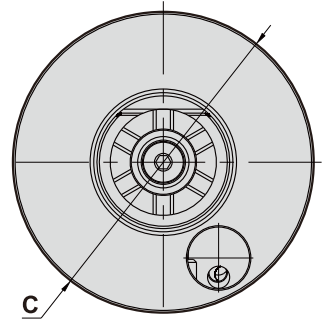
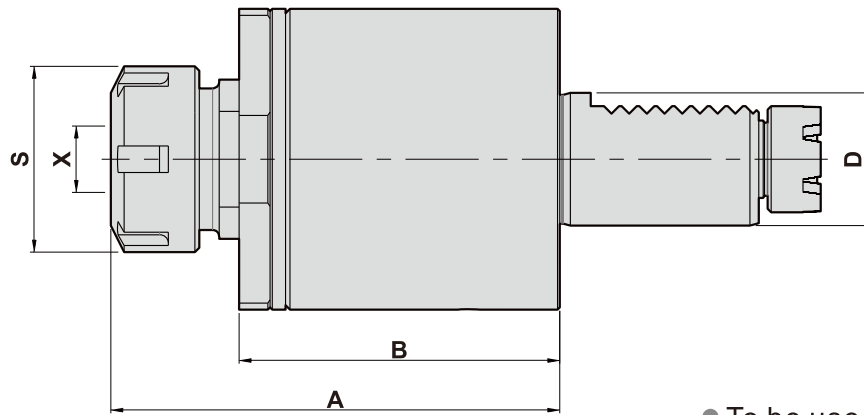
- To be used for collet DIN 6499
- Internal coolant supply: 50bar 中心出水
- Collet is not included

### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	G	M	Code No.	Order No.	(Kg) Weight
50	3-26 ER40	47	5000	1:1	123	88	102	35	75	250494-000	CWNFR50MT40A75	12
										2504114000	CWNFL50MT40A75	

## AXIAL MILLING AND DRILLING HEAD

### 軸向鑽銑刀座 (0°)



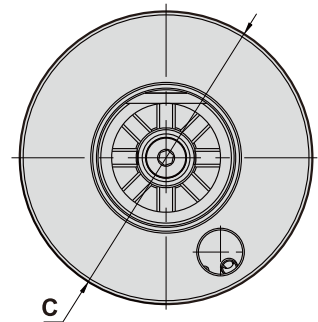
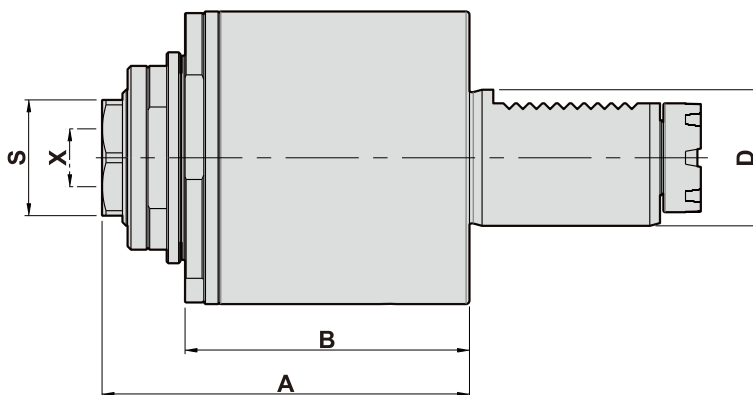
- To be used for collet DIN 6499
- Internal coolant supply: 15bar 中心出水
- Collet is not included

#### DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	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

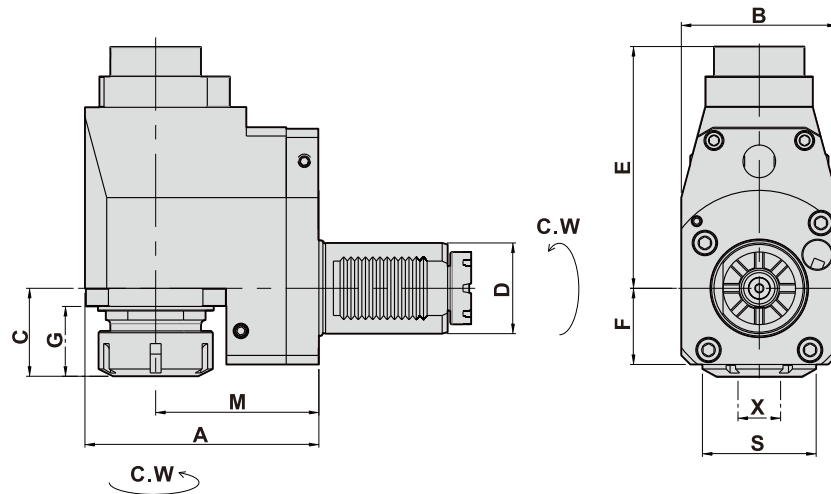
#### DIMENSIONS

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

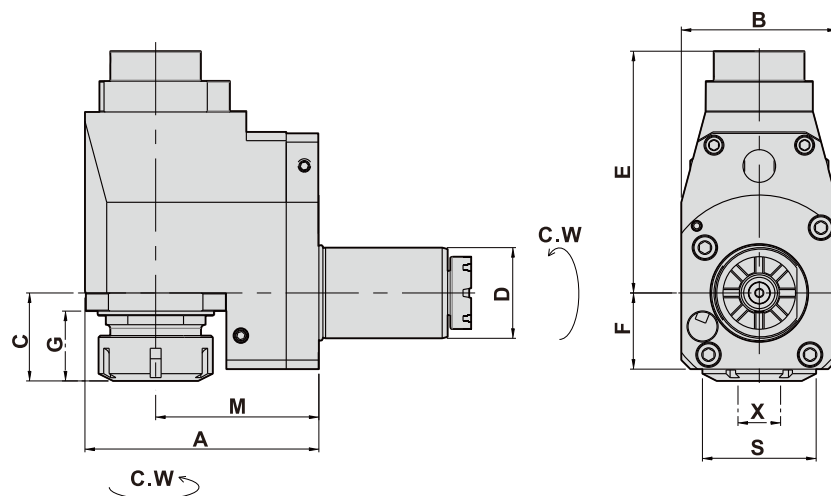
## RADIAL MILLING AND DRILLING HEAD OFFSET

徑向鑽銑刀座-後縮型 (90°)

MODE : BR  
RIGHT-HAND



MODE : BL  
LEFT-HAND

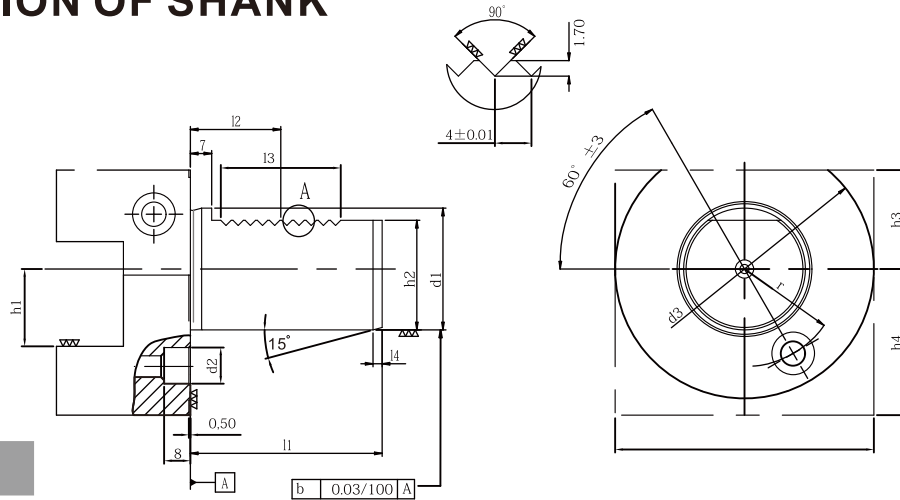


- To be used for collet DIN 6499
- Internal coolant supply: 50bar 中心出水
- Collet is not included

### DIMENSIONS

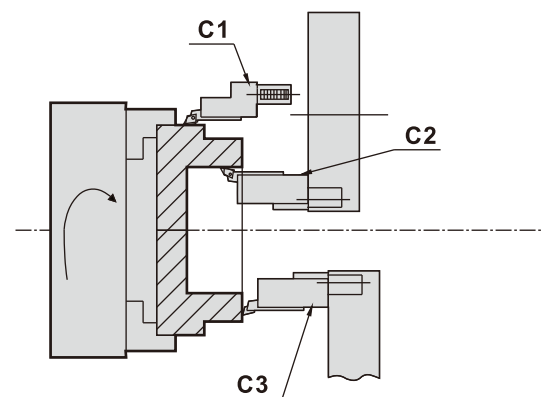
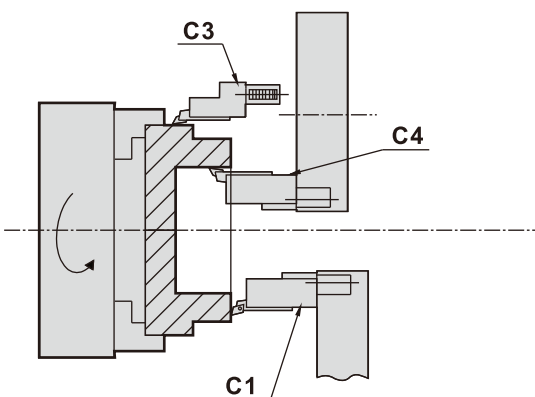
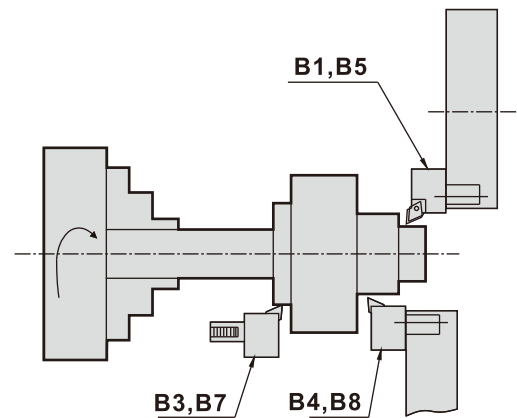
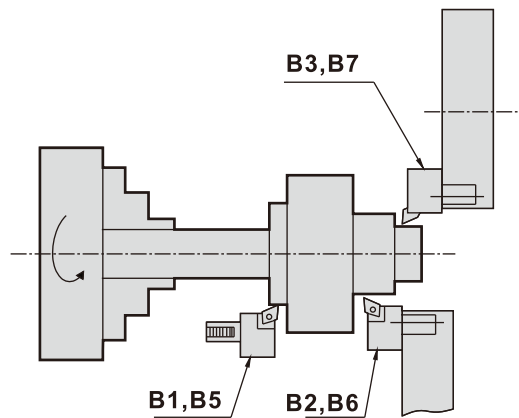
D DIN 69880	X Capacity	S	i	Maximum R.P.M	A	B	C	E	F	G	M	Code No.	Order No.	(Kg) Weight
30	1-16 ER25	42	1:1	5000	95.5	60	43	98	31.5	29.5	72	230406-000	CWBR30MT2572	4.2
40	2-20 ER32	50	1:1	5000	128	80	47	130	42	35.5	90	240406-000	CWBR40MT3290	9.1
												240426-000	CWBL40MT3290	
50	3-26 ER40	63	1:1	5000	129	86	48.5	133	42	38.5	90	250406-000	CWBR50MT4090	10.6
60	10-34 ER50	78	1:1	5000	154	104	71.5	152	54	50	106	260406-000	CWBR60MT50106	17.4
												260426-000	CWBL60MT50106	

## VDI DIMENSIONAL SPECIFICATION OF SHANK



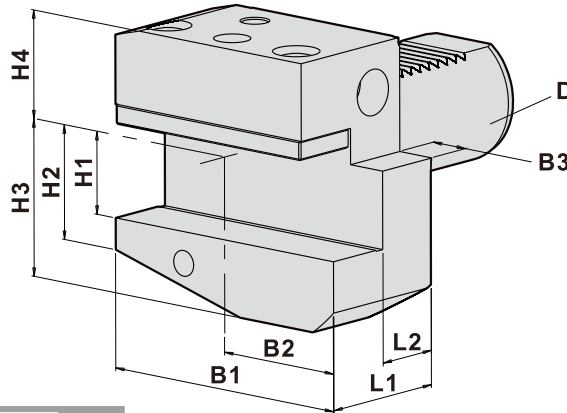
### DIMENSIONS

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





## DIN 69880 STATIC HOLDER

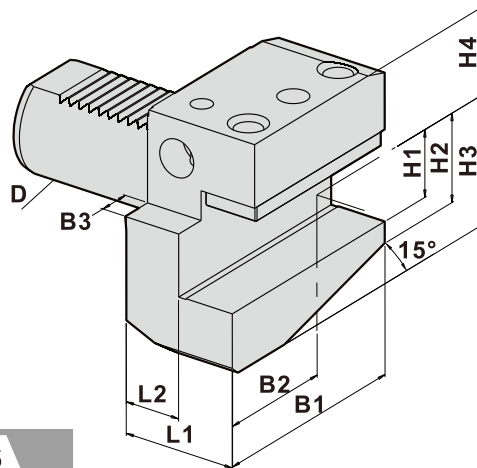


### B1

- Right-hand
- Short
- External Coolant Supply

### DIMENSIONS

D	B1	B2	B3	H1	H2	H3	H4	L1	L2	Code No.	Order No.	(Kg) Weight
20	55	30	7	5/8" (inch)	19	30	25	30	16	4D1501-000	B1-20x5/8"	0.6
				16 (mm)						404501-000	B1-20x16	
30	70	35	10	3/4" (inch)	26	38	28	40	22	4E1501-000	B1-30x3/4"	1.3
				20 (mm)						405501-000	B1-30x20	
40	85	42.5	12.5	1" (inch)	35	48	32.5	44	22	4F1501-000	B1-40x1"	2.2
				25 (mm)						406501-000	B1-40x25	
50	100	50	16	1-1/4" (inch)	42	60	35	55	30	4G1501-000	B1-50x1-1/4"	3.9
				32 (mm)						407501-000	B1-50x32	
60	125	62.5	16	1-1/4" (inch)	46	62.5	42.5	60	30	4G1513-000	B1-60x1-1/4"	6
				32 (mm)						407513-000	B1-60x32	



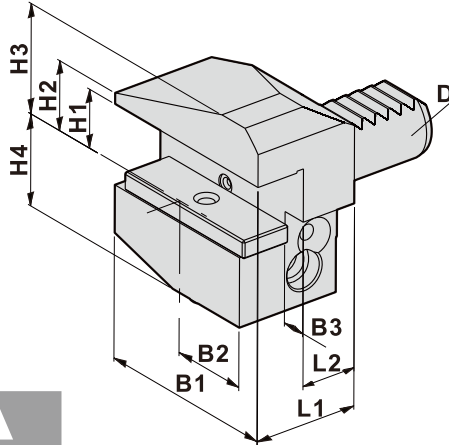
### B2

- Left-hand
- Short
- External Coolant Supply

### DIMENSIONS

D	B1	B2	B3	H1	H2	H3	H4	L1	L2	Code No.	Order No.	(Kg) Weight
20	55	30	7	5/8" (inch)	19	30	25	30	16	5D1501-000	B2-20x5/8"	0.6
				16 (mm)						504501-000	B2-20x16	
30	70	35	10	3/4" (inch)	26	38	28	40	22	5E1501-000	B2-30x3/4"	1.3
				20 (mm)						505501-000	B2-30x20	
30	70	35	10	3/4" (inch)	26	38	28	100	82	5E1507-000	B2-30-F3/4"-100L	3.1
				20 (mm)						505507-000	B2-30-F20-100L	
40	85	42.5	12.5	1" (inch)	35	48	32.5	44	22	5F1501-000	B2-40x1"	2.2
				25 (mm)						506501-000	B2-40x25	
50	100	50	16	1-1/4" (inch)	42	60	35	55	30	5G1501-000	B2-50x1-1/4"	3.9
				32 (mm)						507501-000	B2-50x32	
60	125	62.5	16	1-1/4" (inch)	46	62.5	42.5	60	30	5G1507-000	B2-60x1-1/4"	6
				32 (mm)						507507-000	B2-60x32	

## DIN 69880 STATIC HOLDER

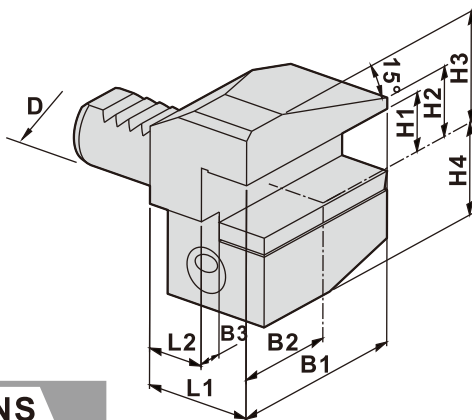


### B3

- Right-hand
- Short
- External Coolant Supply

### DIMENSIONS

D	B1	B2	B3	H1	H2	H3	H4	L1	L2	Code No.	Order No.	(Kg) Weight
20	55	30	7	5/8" (inch)	19	30	25	30	16	4D1502-000	B3-20x5/8"	0.6
				16 (mm)						404502-000	B3-20x16	
30	70	35	10	3/4" (inch)	22	38	35	40	22	4E1502-000	B3-30x3/4"	1.3
				20 (mm)						405502-000	B3-30x20	
30	85	30	12.5	1" (inch)	31.5	47.5	35.5	45	23	4F1515-000	B3-30xC1"	2
				25 (mm)						406515-000	B3-30xC25	
40	85	42.5	12.5	1" (inch)	30	48	42.5	44	22	4F1502-000	B3-40x1"	2.2
				25 (mm)						406502-000	B3-40x25	
50	100	50	16	1-1/4" (inch)	35	60	50	55	30	4G1502-000	B3-50x1-1/4"	3.9
				32 (mm)						407502-000	B3-50x32	
60	125	62.5	16	1-1/4" (inch)	42.5	62.5	62.5	60	30	4G1514-000	B3-60x1-1/4"	6
				32 (mm)						407514-000	B3-60x32	
60	135	55	21	32 (mm)	42.5	62.5	62.5	140	110	407526-000	B3-60x32-140L	16.5



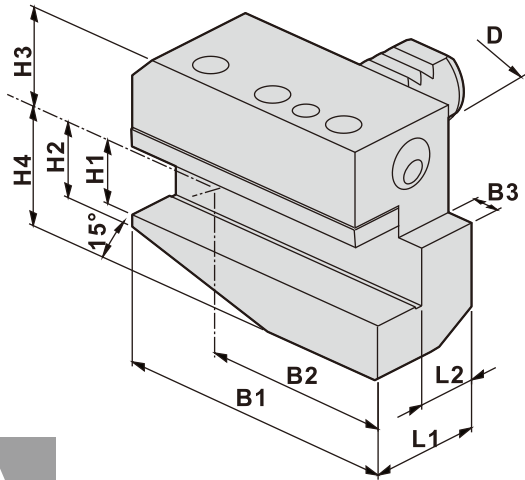
### B4

- Left-hand
- Short
- External Coolant Supply

### DIMENSIONS

D	B1	B2	B3	H1	H2	H3	H4	L1	L2	Code No.	Order No.	(Kg) Weight
20	55	30	7	5/8" (inch)	19	30	25	30	16	5D1502-000	B4-20x5/8"	0.6
				16 (mm)						504502-000	B4-20x16	
30	70	35	10	3/4" (inch)	22	38	35	40	22	5E1502-000	B4-30x3/4"	1.3
				20 (mm)						505502-000	B4-30x20	
40	85	42.5	12.5	1" (inch)	30	48	42.5	44	22	5F1502-000	B4-40x1"	2.2
				25 (mm)						506502-000	B4-40x25	
40	85	42.5	12.5	1" (inch)	30	48	42.5	55	30	5F1508-000	B4-40-F1"-55L	2.8
				25 (mm)						506508-000	B4-40-F25-55L	
50	100	50	16	1-1/4" (inch)	35	60	50	55	30	5G1502-000	B4-50x1-1/4"	3.9
				32 (mm)						507502-000	B4-50x32	
60	125	62.5	16	1-1/4" (inch)	42.5	62.5	62.5	60	30	5G1508-000	B4-60x1-1/4"	6
				32 (mm)						507508-000	B4-60x32	

## DIN 69880 STATIC HOLDER

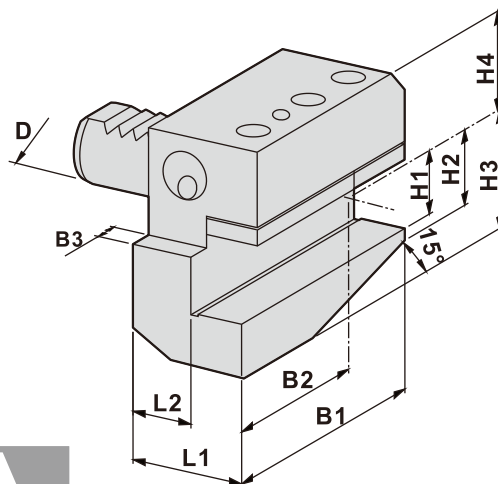


### B5

- Right-hand
- Long
- External Coolant Supply

### DIMENSIONS

D	B1	B2	B3	H1	H2	H3	H4	L1	L2	Code No.	Order No.	(Kg) Weight
20	75	50	7	5/8" (inch)	19	30	25	30	16	4D1503-000	B5-20x5/8"	0.8
				16 (mm)						404503-000	B5-20x16	
30	100	65	10	3/4" (inch)	26	38	28	40	22	4E1503-000	B5-30x3/4"	1.8
				20 (mm)						405503-000	B5-30x20	
40	118	76	12.5	1" (inch)	35	48	32.5	44	22	4F1503-000	B5-40x1"	2.9
				25 (mm)						406503-000	B5-40x25	
50	130	80	16	1-1/4" (inch)	42	60	35	55	30	4G1503-000	B5-50x1-1/4"	5
				32 (mm)						407503-000	B5-50x32	
60	145	83	16	1-1/4" (inch)	46	62.5	42.5	60	30	4G1515-000	B5-60x1-1/4"	7
				32 (mm)						407515-000	B5-60x32	



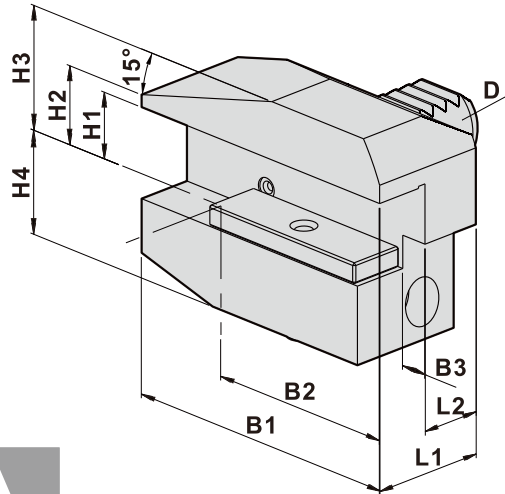
### B6

- Left-hand
- Long
- External Coolant Supply

### DIMENSIONS

D	B1	B2	B3	H1	H2	H3	H4	L1	L2	Code No.	Order No.	(Kg) Weight
20	75	50	7	5/8" (inch)	19	30	25	30	16	5D1503-000	B6-20x5/8"	0.8
				16 (mm)						504503-000	B6-20x16	
30	100	65	10	3/4" (inch)	26	38	28	40	22	5E1503-000	B6-30x3/4"	1.8
				20 (mm)						505503-000	B6-30x20	
40	118	76	12.5	1" (inch)	35	48	32.5	44	22	5F1503-000	B6-40x1"	2.9
				25 (mm)						506503-000	B6-40x25	
50	130	80	16	1-1/4" (inch)	42	60	35	55	30	5G1503-000	B6-50x1-1/4"	5
				32 (mm)						507503-000	B6-50x32	
60	145	83	16	1-1/4" (inch)	46	62.5	42.5	60	30	5G1509-000	B6-60x1-1/4"	7
				32 (mm)						507509-000	B6-60x32	

## DIN 69880 STATIC HOLDER

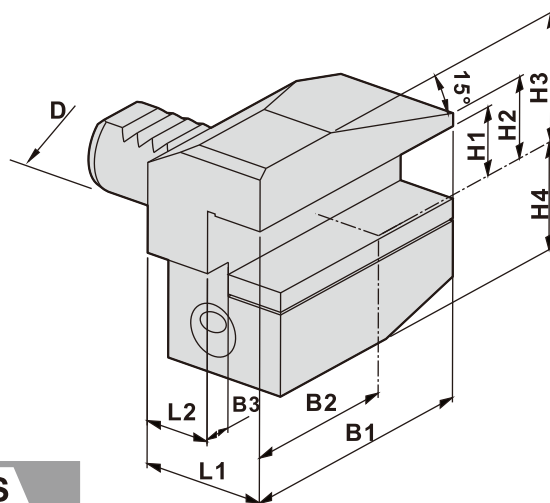


### B7

- Right-hand
- Long
- External Coolant Supply

### DIMENSIONS

D	B1	B2	B3	H1	H2	H3	H4	L1	L2	Code No.	Order No.	(Kg) Weight
20	75	50	7	5/8" (inch)	19	30	25	30	16	4D1504-000	B7-20x5/8"	0.8
				16 (mm)						404504-000	B7-20x16	
30	100	65	10	3/4" (inch)	22	38	35	40	22	4E1504-000	B7-30x3/4"	1.8
				20 (mm)						405504-000	B7-30x20	
40	118	75.5	12.5	1" (inch)	30	48	42.5	44	22	4F1504-000	B7-40x1"	3.2
				25 (mm)						406504-000	B7-40x25	
50	130	80	16	1-1/4" (inch)	35	60	50	55	30	4G1504-000	B7-50x1-1/4"	5.5
				32 (mm)						407504-000	B7-50x32	
60	145	82.5	16	1-1/4" (inch)	42.5	62.5	62.5	60	30	4G1516-000	B7-60x1-1/4"	8
				32 (mm)						407516-000	B7-60x32	



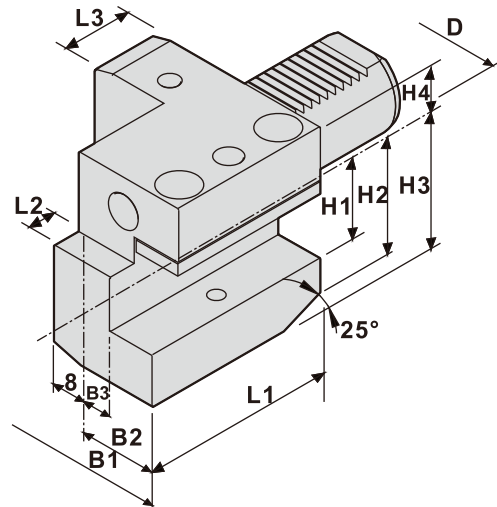
### B8

- Left-hand
- Long
- External Coolant Supply

### DIMENSIONS

D	B1	B2	B3	H1	H2	H3	H4	L1	L2	Code No.	Order No.	(Kg) Weight
20	75	50	7	5/8" (inch)	19	30	25	30	16	5D1504-000	B8-20x5/8"	0.8
				16 (mm)						504504-000	B8-20x16	
30	100	65	10	3/4" (inch)	22	38	35	40	22	5E1504-000	B8-30x3/4"	1.8
				20 (mm)						505504-000	B8-30x20	
40	118	75.5	12.5	1" (inch)	30	48	42.5	44	22	5F1504-000	B8-40x1"	3.2
				25 (mm)						506504-000	B8-40x25	
50	130	80	16	1-1/4" (inch)	35	60	50	55	30	5G1504-000	B8-50x1-1/4"	5.5
				32 (mm)						507504-000	B8-50x32	
60	145	82.5	16	1-1/4" (inch)	42.5	62.5	62.5	60	30	5G1510-000	B8-60x1-1/4"	8
				32 (mm)						507510-000	B8-60x32	

## DIN 69880 STATIC HOLDER

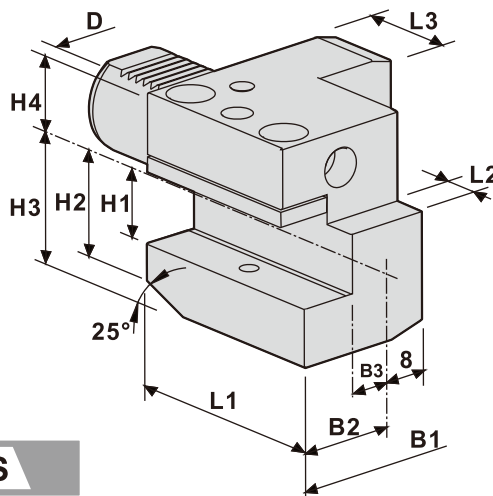


### C1

- Right-hand
- External Coolant Supply

### DIMENSIONS

D	B1	B2	B3	H1	H2	H3	H4	L1	L2	L3	Code No.	Order No.	(Kg) Weight
20	65	40	26	5/8" (inch)	23	30	25	50	7	30	5D1505-000	C1-20x5/8"	1
				16 (mm)							504505-000	C1-20x16	
30	70	35	17	3/4" (inch)	28	38	28	70	10	30	5E1505-000	C1-30x3/4"	1.8
				20 (mm)							505505-000	C1-30x20	
40	85	42.5	21	1" (inch)	-	48	32.5	85	12.5	30	5F1505-000	C1-40x1"	3.6
				25 (mm)							506505-000	C1-40x25	
50	100	50	26	1-1/4" (inch)	-	60	35	100	16	40	5G1505-000	C1-50x1-1/4"	5.5
				32 (mm)							507505-000	C1-50x32	
60	125	62.5	33	1-1/4" (inch)	-	62.5	42.5	125	16	40	5G1511-000	C1-60x1-1/4"	10
				32 (mm)							507511-000	C1-60x32	



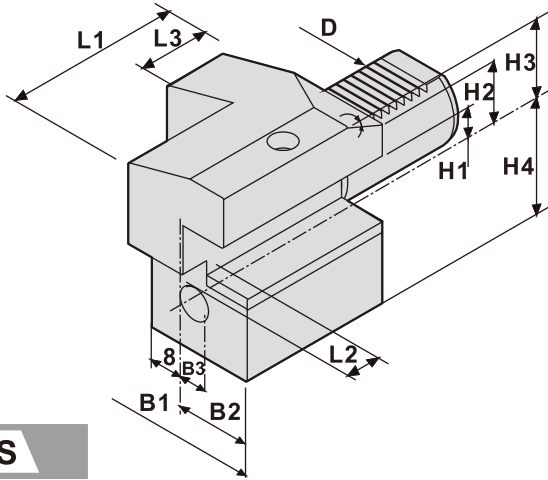
### C2

- Left-hand
- External Coolant Supply

### DIMENSIONS

D	B1	B2	B3	H1	H2	H3	H4	L1	L2	L3	Code No.	Order No.	(Kg) Weight
20	65	40	26	5/8" (inch)	23	30	25	50	7	30	4D1505-000	C2-20x5/8"	1
				16 (mm)							404505-000	C2-20x16	
30	76	41	23	3/4" (inch)	28	38	28	70	10	30	4E1505-000	C2-30x3/4"	1.8
				20 (mm)							405505-000	C2-30x20	
40	90	47.5	25.5	1" (inch)	-	48	32.5	85	12.5	30	4F1505-000	C2-40x1"	3.6
				25 (mm)							406505-000	C2-40x25	
40	140.5	98	76	1" (inch)	40	48	36.5	85	12.5	30	4F1518-000	C2-40xC1"-76L	6.3
				25 (mm)							406518-000	C2-40xC25-76L	
50	105	55	30.5	1-1/4" (inch)	-	60	35	100	16	40	4G1505-000	C2-50x1-1/4"	6
				32 (mm)							407505-000	C2-50x32	
60	125	62.5	33	1-1/4" (inch)	-	62.5	42.5	125	16	40	4G1517-000	C2-60x1-1/4"	10
				32 (mm)							407517-000	C2-60x32	

## DIN 69880 STATIC HOLDER

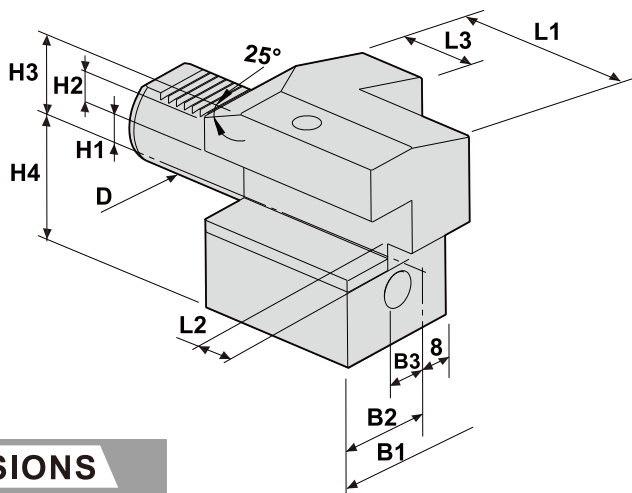


### C3

- Right-hand
- External Coolant Supply

### DIMENSIONS

D	B1	B2	B3	H1	H2	H3	H4	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
				16 (mm)							504506-000	C3-20x16	
30	70	35	17	3/4" (inch)	28	38	35	70	10	30	5E1506-000	C3-30x3/4"	1.8
				20 (mm)							505506-000	C3-30x20	
40	85	42.5	21	1" (inch)	-	48	42.5	85	12.5	30	5F1506-000	C3-40x1"	3.6
				25 (mm)							506506-000	C3-40x25	
40	145.5	98	76	1" (inch)	35	48	42.5	85	12.5	30	5F1518-000	C3-40xF1"-76	6.3
				25 (mm)							506518-000	C3-40xF25-76	
50	100	50	26	1-1/4" (inch)	-	60	50	100	16	40	5G1506-000	C3-50x1-1/4"	6
				32 (mm)							507506-000	C3-50x32	
60	125	62.5	33	1-1/4" (inch)	-	62.5	62.5	125	16	40	5G1512-000	C3-60x1-1/4"	10
				32 (mm)							507512-000	C3-60x32	



### C4

- Left-hand
- External Coolant Supply

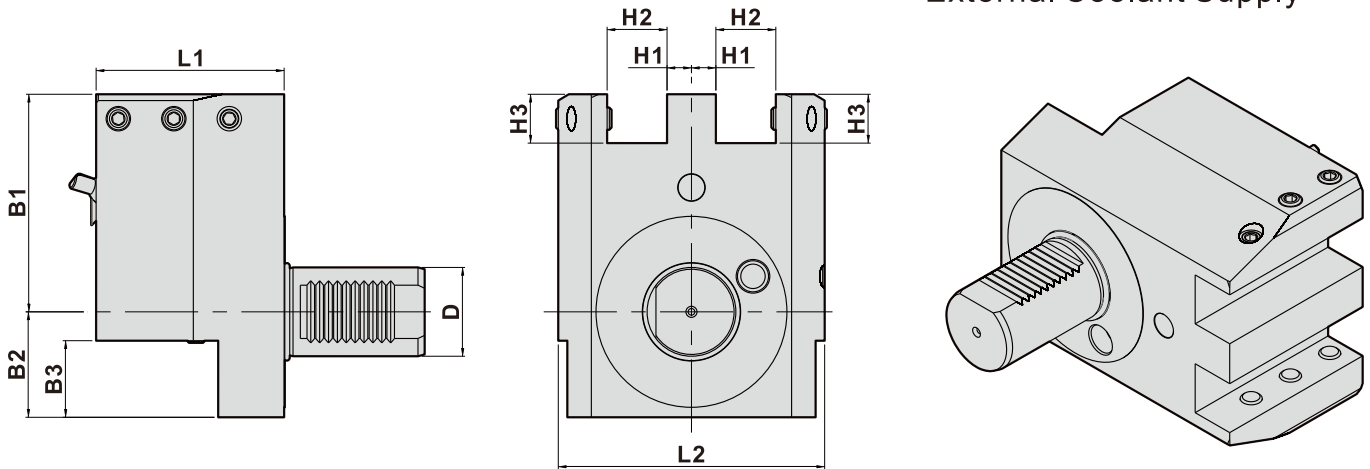
### DIMENSIONS

D	B1	B2	B3	H1	H2	H3	H4	L1	L2	L3	Code No.	Order No.	(Kg) Weight
20	65	40	26	5/8" (inch)	23	30	25	50	7	30	4D1506-000	C4-20x5/8"	1
				16 (mm)							404506-000	C4-20x16	
30	76	41	23	3/4" (inch)	28	38	35	70	10	30	4E1506-000	C4-30x3/4"	1.8
				20 (mm)							405506-000	C4-30x20	
40	90	47.5	25.5	1" (inch)	-	48	42.5	85	12.5	30	4F1506-000	C4-40x1"	3.6
				25 (mm)							406506-000	C4-40x25	
50	105	55	30.5	1-1/4" (inch)	-	60	50	100	16	40	4G1506-000	C4-50x1-1/4"	6.3
				32 (mm)							407506-000	C4-50x32	
60	125	62.5	33	1-1/4" (inch)	-	62.5	62.5	125	16	40	4G1518-000	C4-60x1-1/4"	10
				32 (mm)							407518-000	C4-60x32	

## DIN 69880 STATIC HOLDER

### C4

- Right-hand
- External Coolant Supply

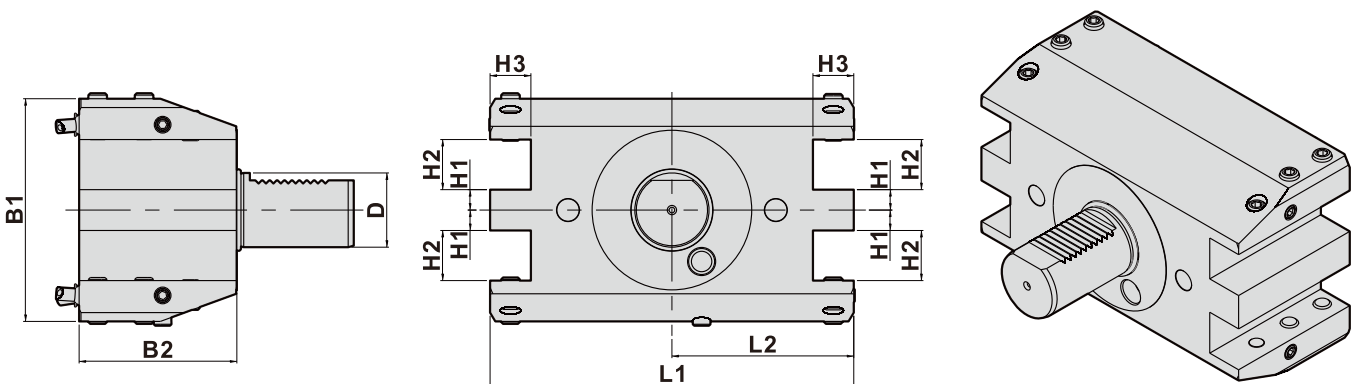


### DIMENSIONS

D	B1	B2	B3	H1	H2	H3	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

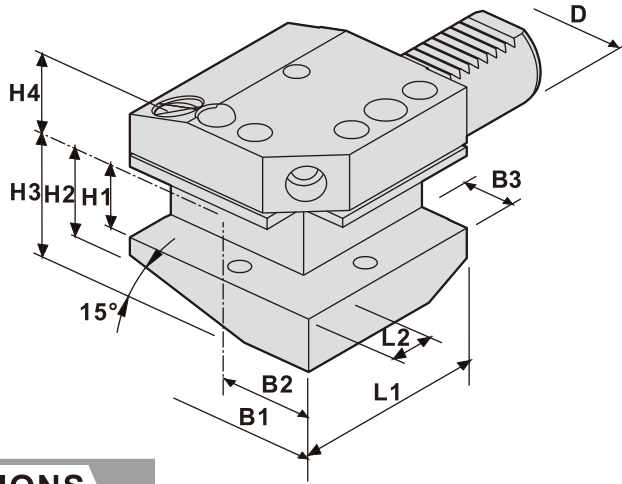
- Right-hand
- External Coolant Supply



### DIMENSIONS

D	B1	B2	H1	H2	H3	L1	L2	Code No.	Order No.	(Kg) Weight
40	120	85	11	27	22	196	98	406521-000	C4-40-25x4-76	13.8

## DIN 69880 COMBINED STATIC HOLDER

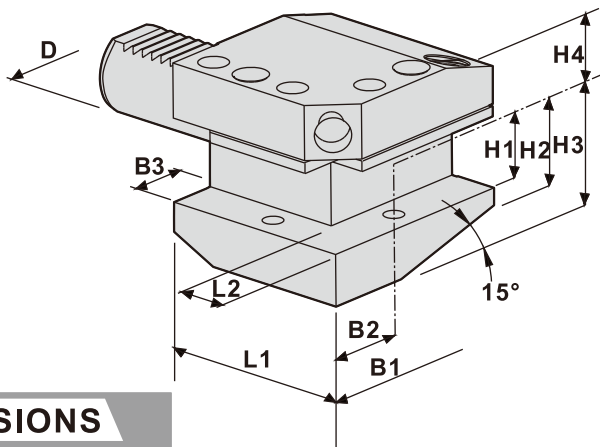


### CB1

- Right-hand
- External Coolant Supply

### DIMENSIONS

D	B1	B2	B3	H1	H2	H3	H4	L1	L2	Code No.	Order No.	(Kg) Weight
20	65	40	14	5/8" (inch)	19	30	25	50	14	4D1507-000	CB1-20x5/8"	1.1
				16 (mm)						404507-000	CB1-20x16	
30	74	40	18	3/4" (inch)	26	38	28	70	18	4E1507-000	CB1-30x3/4"	2.2
				20 (mm)						405507-000	CB1-30x20	
40	85	45	22	1" (inch)	35	47.5	42.5	100	22	4F1507-000	CB1-40x1"	5.3
				25 (mm)						406507-000	CB1-40x25	
50	105	55	25	1-1/4" (inch)	42	60	35	120	25	4G1507-000	CB1-50x1-1/4"	7.8
				32 (mm)						407507-000	CB1-50x32	
60	125	62.5	30	1-1/4" (inch)	46	62.5	62.5	135	30	4G1519-000	CB1-60x1-1/4"	15
				32 (mm)						407519-000	CB1-60x32	



### CB2

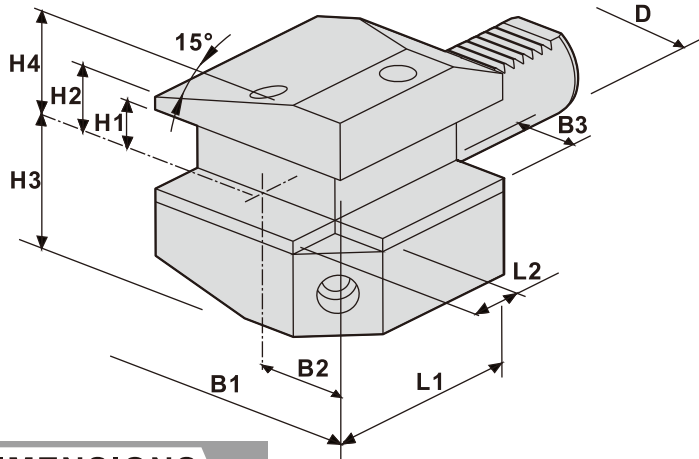
- Left-hand
- External Coolant Supply

### DIMENSIONS

D	B1	B2	B3	H1	H2	H3	H4	L1	L2	Code No.	Order No.	(Kg) Weight
20	65	40	14	5/8" (inch)	19	30	25	50	14	4D1508-000	CB2-20x5/8"	1.1
				16 (mm)						404508-000	CB2-20x16	
30	74	40	18	3/4" (inch)	26	38	28	70	18	4E1508-000	CB2-30x3/4"	2.2
				20 (mm)						405508-000	CB2-30x20	
40	85	47	22	1" (inch)	35	47.5	42.5	100	22	4F1508-000	CB2-40x1"	5.3
				25 (mm)						406508-000	CB2-40x25	
50	105	55	25	1-1/4" (inch)	42	60	35	120	25	4G1508-000	CB2-50x1-1/4"	7.8
				32 (mm)						407508-000	CB2-50x32	
60	125	62.5	30	1-1/4" (inch)	46	62.5	62.5	135	30	4G1520-000	CB2-60x1-1/4"	15
				32 (mm)						407520-000	CB2-60x32	



## DIN 69880 COMBINED STATIC HOLDER

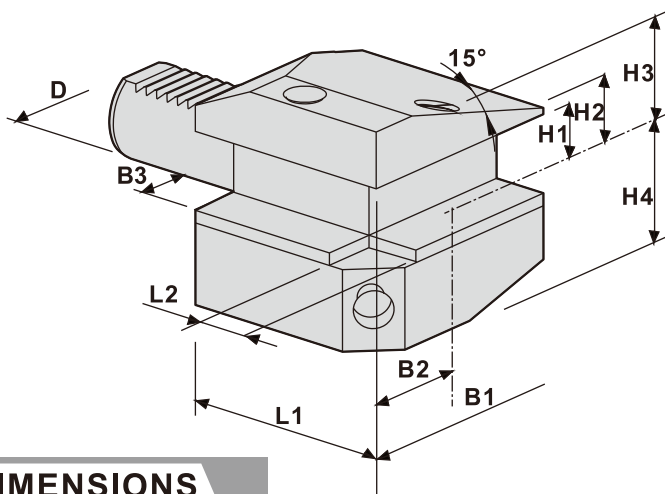


### CB3

- Right-hand
- External Coolant Supply

### DIMENSIONS

D	B1	B2	B3	H1	H2	H3	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
				16 (mm)						404509-000	CB3-20x16	
30	74	40	18	3/4" (inch)	22	38	28	70	18	4E1509-000	CB3-30x3/4"	2.2
				20 (mm)						405509-000	CB3-30x20	
40	85	45	22	1" (inch)	30	42.5	47.5	100	22	4F1509-000	CB3-40x1"	5.3
				25 (mm)						406509-000	CB3-40x25	
50	105	55	25	1-1/4" (inch)	35	50	60	120	25	4G1509-000	CB3-50x1-1/4"	7.8
				32 (mm)						407509-000	CB3-50x32	
60	125	62.5	30	1-1/4" (inch)	42.5	62.5	62.5	135	30	4G1521-000	CB3-60x1-1/4"	15
				32 (mm)						407521-000	CB3-60x32	



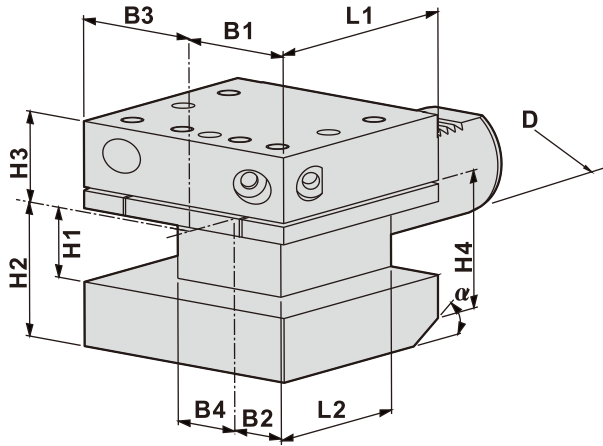
### CB4

- Left-hand
- External Coolant Supply

### DIMENSIONS

D	B1	B2	B3	H1	H2	H3	H4	L1	L2	Code No.	Order No.	(Kg) Weight
20	65	40	14	5/8" (inch)	19	30	25	50	14	4D1510-000	CB4-20x5/8"	1.1
				16 (mm)						404510-000	CB4-20x16	
30	74	40	18	3/4" (inch)	22	28	38	70	18	4E1510-000	CB4-30x3/4"	2.2
				20 (mm)						405510-000	CB4-30x20	
40	85	47	22	1" (inch)	30	47.5	42.5	100	22	4F1510-000	CB4-40x1"	5.3
				25 (mm)						406510-000	CB4-40x25	
50	105	55	25	1-1/4" (inch)	35	60	50	120	25	4G1510-000	CB4-50x1-1/4"	7.8
				32 (mm)						407510-000	CB4-50x32	
60	125	62.5	30	1-1/4" (inch)	42.5	62.5	62.5	135	30	4G1522-000	CB4-60x1-1/4"	15
				32 (mm)						407522-000	CB4-60x32	

## DIN 69880 COMBINED STATIC HOLDER

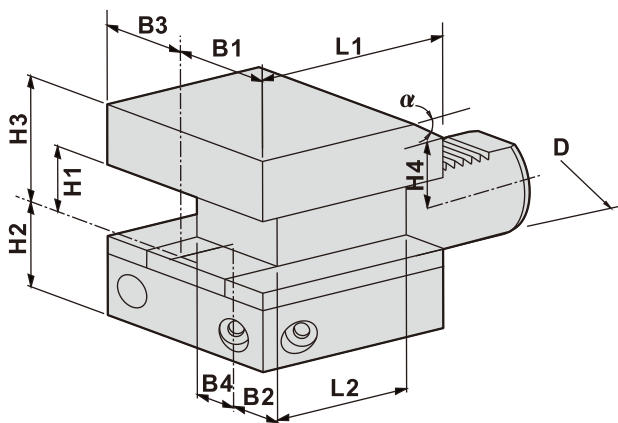


### D1

- Right-hand
- External Coolant Supply

### DIMENSIONS

D	B1	B2	B3	B4	H1	H2	H3	H4	L1	L2	$\alpha$	Code No.	Order No.	(Kg) Weight
30	35	17	41	23	3/4" (inch)	38	35	30	60	42	25°	4E1511-000	D1-30x3/4"	2.3
					20 (mm)							405511-000	D1-30x20	
30	35	17	41	23	3/4" (inch)	38	32.5	40	90	72	15°	4E1515-000	D1-30-C3/4"x3-90	3.2
					20 (mm)							405515-000	D1-30-C20x3-90	
40	42.5	21	47.5	25.5	1" (inch)	48	32.5	37	72	50	25°	4F1511-000	D1-40x1"	4.1
					25 (mm)							406511-000	D1-40x25	
50	50	26	55	30.5	1-1/4" (inch)	60	50	-	85	60	-	4G1511-000	D1-50x1-1/4"	7.5
					32 (mm)							407511-000	D1-50x32	
60	57.5	32.5	57.5	32.5	1-1/4" (inch)	63.5	41.5	-	110	85	-	4G1523-000	D1-60x1-1/4"	10.3
					32 (mm)							407523-000	D1-60x32	



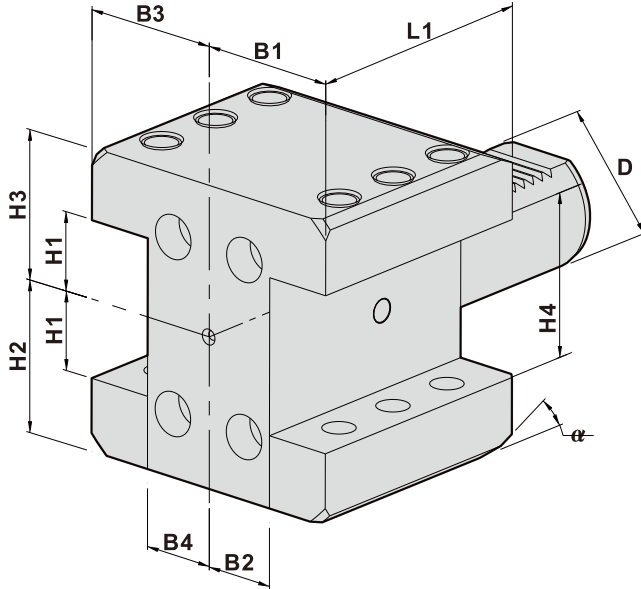
### D2

- Left-hand
- External Coolant Supply

### DIMENSIONS

D	B1	B2	B3	B4	H1	H2	H3	H4	L1	L2	$\alpha$	Code No.	Order No.	(Kg) Weight
30	35	17	41	23	3/4" (inch)	38	35	30	60	42	25°	4E1512-000	D2-30x3/4"	2.3
					20 (mm)							405512-000	D2-30x20	
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)	48	42.5	40	72	50	25°	4F1512-000	D2-40x1"	4.1
					25 (mm)							406512-000	D2-40x25	
50	50	26	55	30.5	1-1/4" (inch)	60	50	-	85	60	-	4G1512-000	D2-50x1-1/4"	7.5
					32 (mm)							407512-000	D2-50x32	
60	57.5	32.5	57.5	32.5	1-1/4" (inch)	41.5	63.5	-	110	85	-	4G1524-000	D2-60x1-1/4"	10.3
					32 (mm)							407524-000	D2-60x32	

## DIN 69880 COMBINED STATIC HOLDER

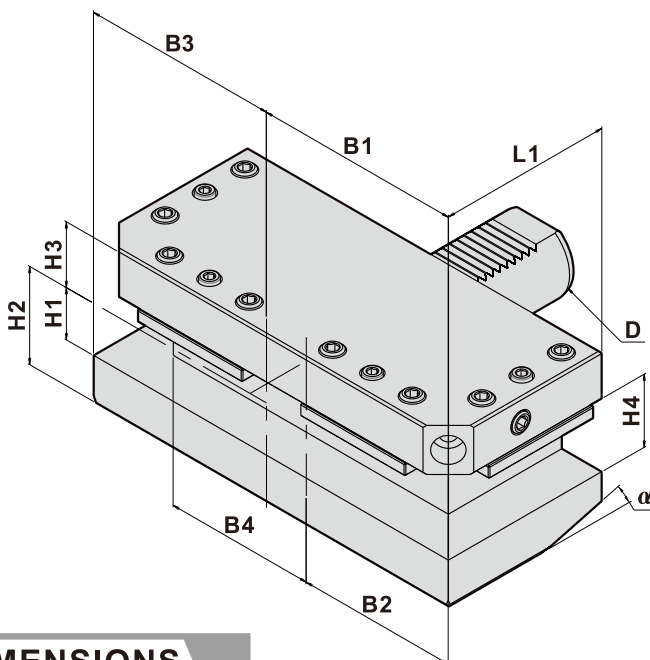


### D12

- Right-hand
- External Coolant Supply

### DIMENSIONS

D	B1	B2	B3	B4	H1	H2	H3	H4	L1	$\alpha$	Code No.	Order No.	(Kg) Weight
30	52.5	34.5	52.5	34.5	3/4" (inch)	38	38	40	80	25°	4E1513-000	D12-30x3/4"	4.8
					20 (mm)						405513-000	D12-30x20	
40	46	24	46	24	1" (inch)	48	48	42	85	25°	4F1513-000	D12-40x1"	5.4
					25 (mm)						406513-000	D12-40x25	



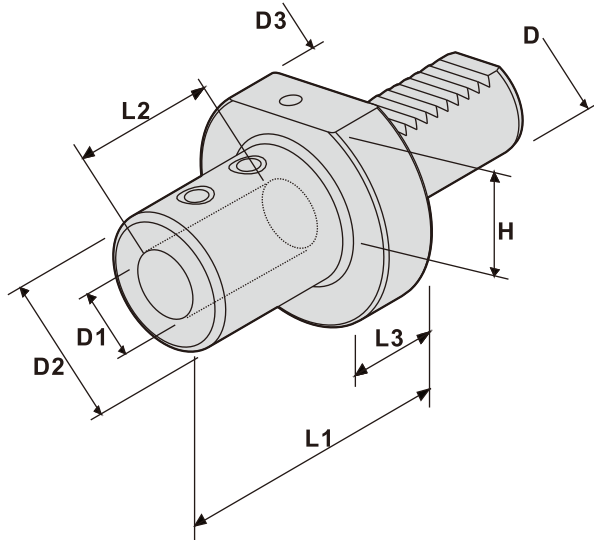
### D1

- Right-hand
- External Coolant Supply

### DIMENSIONS

D	B1	B2	B3	B4	H1	H2	H3	H4	L1	$\alpha$	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



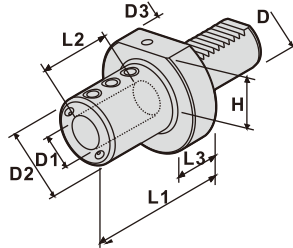
**E1**

- Internal Coolant Supply

### DIMENSIONS

D	D1	D2	D3	H	L1	L2	L3	Code No.	Order No.	(Kg) Weight
20	3/4" (inch)	40	50	-	67	54	18	3E1506-000	E1-20x3/4"	0.8
	20 (mm)							E1-20x20		
20	1" (inch)	45	50	-	71	59	18	3F1506-000	E1-20x1"	0.8
	25 (mm)							E1-20x25		
30	3/4" (inch)	40	68	28	67	54	22	3E1507-000	E1-30x3/4"	1.2
	20 (mm)							E1-30x20		
30	1" (inch)	45	68	28	71	59	22	3F1507-000	E1-30x1"	1.2
	25 (mm)							E1-30x25		
30	1-1/4" (inch)	52	68	28	75	63	22	3G1505-000	E1-30x1-1/4"	1.3
	32 (mm)							E1-30x32		
40	5/8" (inch)	36	83	32.5	64	51	22	3D1508-000	E1-40x5/8"	1.7
	16 (mm)							E1-40x16		
40	3/4" (inch)	40	83	32.5	67	54	22	3E1508-000	E1-40x3/4"	1.8
	20 (mm)							E1-40x20		
40	1" (inch)	52	83	32.5	75	59	22	3F1508-000	E1-40x1"	2
	25 (mm)							E1-40x25		
40	1-1/4" (inch)	60	83	32.5	75	63	22	3G1506-000	E1-40x1-1/4"	2.2
	32 (mm)							E1-40x32		
40	1-1/2" (inch)	60	83	32.5	90	73	22	3H1504-000	E1-40x1-1/2"	2.5
	40 (mm)							E1-40x40		
50	3/4" (inch)	45	98	35	67	54	30	3E1509-000	E1-50x3/4"	2.8
	20 (mm)							E1-50x20		
50	1" (inch)	50	98	35	80	59	30	3F1509-000	E1-50x1"	2.9
	25 (mm)							E1-50x25		
50	1-1/4" (inch)	60	98	35	80	63	30	3G1507-000	E1-50x1-1/4"	3.1
	32 (mm)							E1-50x32		
50	1-1/2" (inch)	68	98	35	90	73	30	3H1505-000	E1-50x1-1/2"	3.4
	40 (mm)							E1-50x40		
50	1-1/2" (inch)	68	98	35	135	73	30	3H1506-000	E1-50x1-1/2"-135L	4.6
	40 (mm)							E1-50x40-135L		
50	1-1/2" (inch)	68	98	35	135	108	30	3H1507-000	E1-50x1-1/2"-135L-1	4.6
	40 (mm)							E1-50x40-135L-1		
50	2" (inch)	70	98	35	100	83	30	3I1503-000	E1-50x2"	4.1
	50 (mm)							E1-50x50		
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

## DIN 69880 STATIC HOLDER



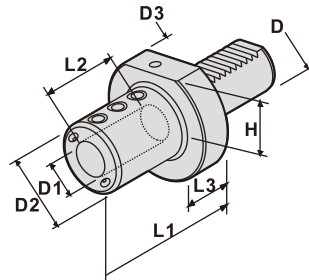
### DIMENSIONS

### E2

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

D	D1	D2	D3	H	L1	L2	L3	Code No.	Order No.	(Kg) Weight
20	8	40	50	-	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	-	50	41	18	303501-000	E2-20x12	0.7
20	16	40	50	-	50	41	18	304501-000	E2-20x16	0.7
20	20	50	50	-	50	41	-	305501-000	E2-20x20	0.8
20	25	50	50	-	60	51	-	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	-	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	-	308501-000	E2-40x40	3
40	50	-	83	32.5	100	83	-	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	-	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

## DIN 69880 STATIC HOLDER



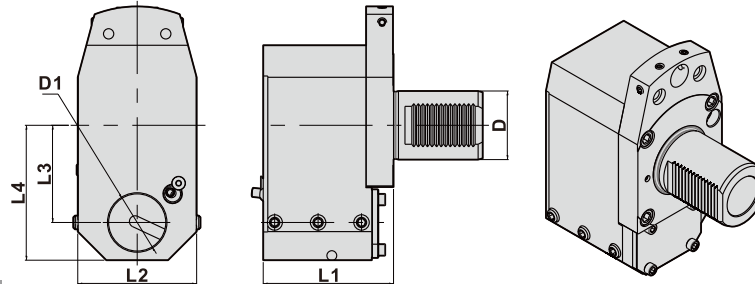
**E2**

- Boring Bar Holder
- External Coolant Supply

### DIMENSIONS

D	D1	D2	D3	H	L1	L2	L3	Code No.	Order No.	(Kg) Weight
20	5/16"	40	50	-	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	-	50	41	18	3C1501-000	E2-20x1/2"	0.7
20	5/8"	40	50	-	50	41	18	3D1501-000	E2-20x5/8"	0.7
20	3/4"	50	50	-	50	41	-	3E1501-000	E2-20x3/4"	0.8
20	1"	50	50	-	60	51	-	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	1"	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	-	3H1501-000	E2-40x1-1/2"	3
40	2"	-	83	32.5	100	83	-	3I1504-000	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	-	3I1501-000	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	3I1502-000	E2-60x2"	6
60	2-1/2"	123	123	42.5	153	128	30	3J1504-000	E2-60x2-1/2"-153L	14.1

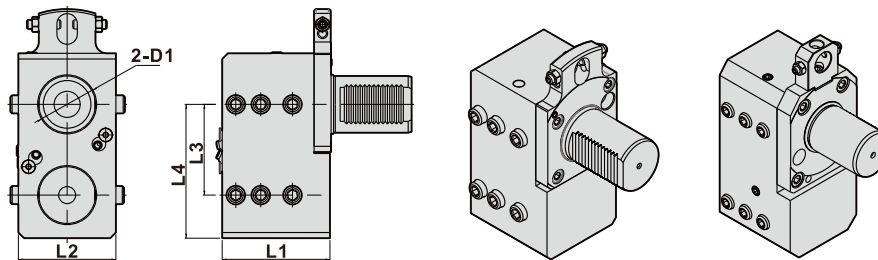
## DIN 69880 STATIC HOLDER



### DIMENSIONS

● External coolant supply

D DIN 69880	D1	L1	L2	L3	L4	Code No.	Order No.	(Kg) Weight
50	2" (inch)	95	86	80	118	3I1509-000	E2-50xB2"-80	9.8
	50 (mm)					309509-000	E2-50xB50-80	
60	2" (inch)	114	104	80	118	3I1516-000	E2-60xB2"-80	16.3
	50 (mm)					309516-000	E2-60xB50-80	
60	2" (inch)	114	104	85	118	3I1513-000	E2-60xB2"-85	16.3
	50 (mm)					309513-000	E2-60xB50-85	



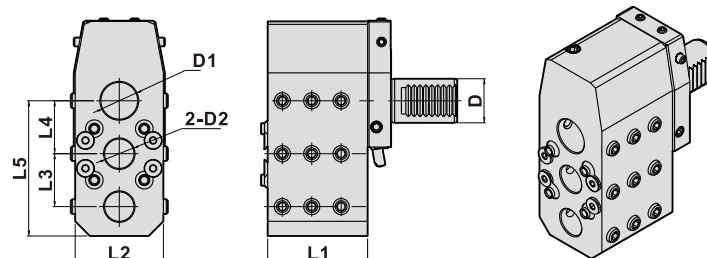
RIGHT-HAND

LEFT-HAND

### DIMENSIONS

● External, internal coolant supply

D DIN 69880	D1	L1	L2	L3	L4	Code No.	Order No.	(Kg) Weight
30	1" (inch)	65	60	35	56.5	3F1512-000	E2-30-B1"x2 -35	2.8
	25 (mm)					306512-000	E2-30-B25x2-35	
40	1-1/4" (inch)	80.5	75	90	115	3G1512-000	E2-40-B1-1/4"x2-90-L	7
	32 (mm)					307512-000	E2-40-B32x2-90-L	
40	1-1/2" (inch)	90	75	65	91	3H1508-000	E2-40-B1-1/2"x2-65	5.6
	40 (mm)					308508-000	E2-40-B40x2-65	
40	1-1/2" (inch)	90	75	65	91	3H1532-000	E2-40-B1-1/2"x2-65-L	5.6
	40 (mm)					308532-000	E2-40-B40x2-65-L	
50	2" (inch)	96	86	80	118	3I1510-000	E2-50-B2"x2-80	8.8
	50 (mm)					309510-000	E2-50-B50x2-80	
60	2" (inch)	100	105	80	117	3I1508-000	E2-60-B2"x2-80	15.5
	50 (mm)					309511-000	E2-60-B50x2-80	

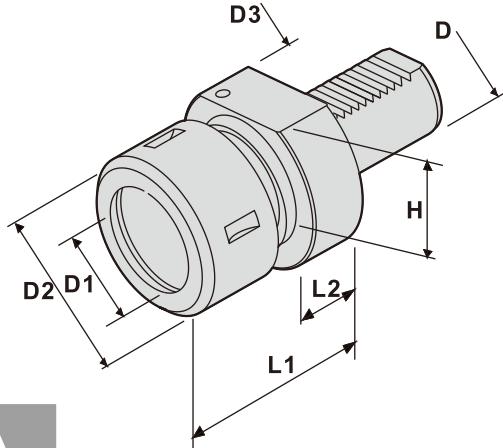


### DIMENSIONS

● 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

## DIN 69880 STATIC HOLDER

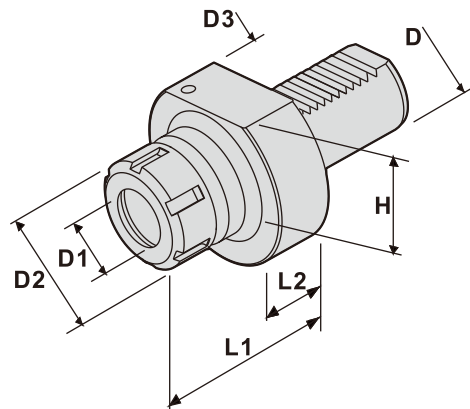


### E3

- For Collet DIN 6388
- External Coolant Supply

### DIMENSIONS

D	D1	D2	D3	H	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

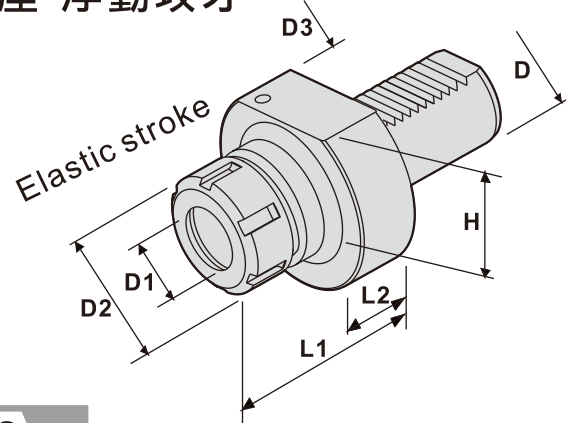
### DIMENSIONS

D	D1	D2	D3	H	L1	L2	Code No.	Order No.	(Kg) Weight
20	1-16	42	50	-	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-ER50	6



## DIN 69880 STATIC HOLDER

VDI 攻牙刀座-浮動攻牙



### TAPPER

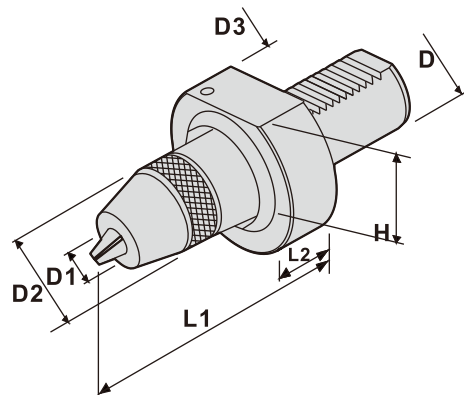
- For Collet DIN 6499
- External Coolant Supply

#### DIMENSIONS

D	D1	D2	D3	H	L1	L2	Code No.	Order No.	(Kg) Weight
20	1-13	34	50	-	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



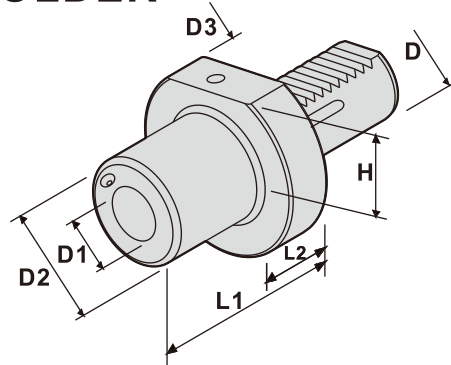
### KEYLESS DRILL CHUCK

- External Coolant Supply

#### DIMENSIONS

D	D1	D2	D3	H	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

## DIN 69880 STATIC HOLDER 莫氏鑽頭

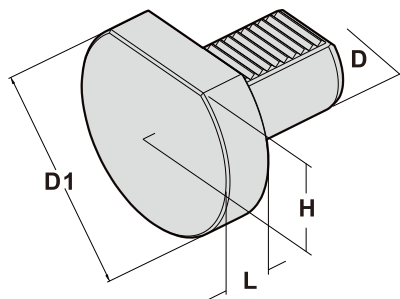


- Tool holders with morse taper according DIN 228
- External coolant supply

### DIMENSIONS

D	D1	D2	D3	H	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	MT3	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	MT3	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	MT3	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	MT3	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

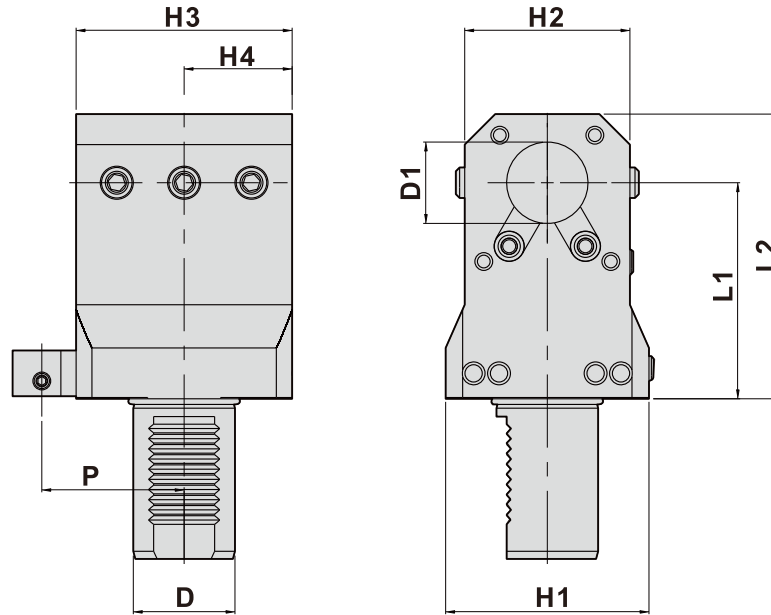


- Made From Plastic
- Made From Metal

### DIMENSIONS

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

## DIN 69880 STATIC HOLDER

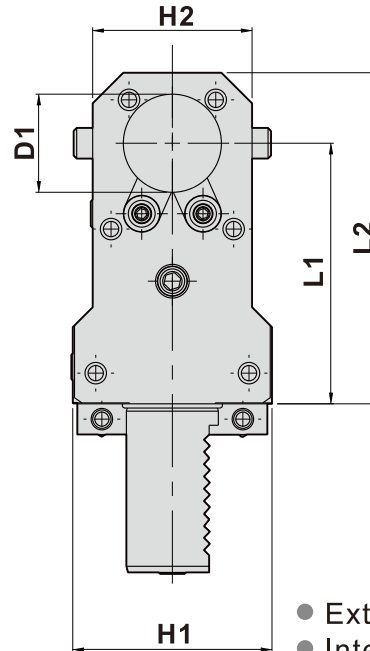
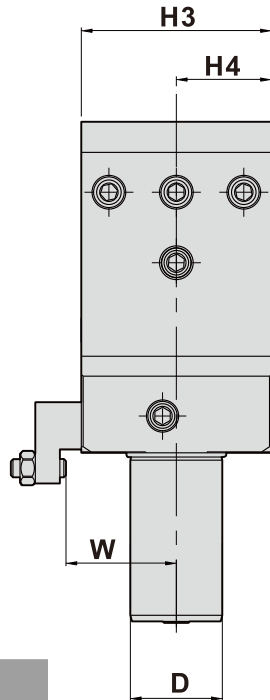


### DIMENSIONS

- External coolant supply
- Internal Coolant Supply

D DIN 69880	D1	H1	H2	H3	H4	L1	L2	P	Code No.	Order No.	(Kg) Weight
30	1-1/4" (inch)	65	52	62	31	65	90	48	3G1521-000	T1-30-1-1/4"-65	2.4
	32 (mm)								307521-000	T1-30-32 -65	
30	1-1/4" (inch)	65	52	62	31	85	108	48	3G1522-000	T1-30-1-1/4"-85	3
	32 (mm)								307522-000	T1-30-32-85	
30	1-1/4" (inch)	65	52	62	31	100	123	48	3G1523-000	T1-30-1-1/4"-100	3.2
	32 (mm)								307523-000	T1-30-32-100	
30	1-1/4" (inch)	65	52	62	31	120	143	48	3G1524-000	T1-30-1-1/4"-120	3.9
	32 (mm)								307524-000	T1-30-32 -120	
30	1-1/2" (inch)	-	65	85	54	85	112	48	3H1509-000	T1-30-1-1/2"-85	4.3
	40(mm)								308509-000	T1-30-40-85	
40	1-1/4" (inch)	80	65	85	42.5	85	112	56	3G1508-000	T1-40-1-1/4" -85	5.2
	32 (mm)								307508-000	T1-40-32-85	
40	1-1/2" (inch)	80	65	85	42.5	85	112	56	3H1515-000	T1-40-1-1/2" -85	5
	40 (mm)								308515-000	T1-40-40-85	
40	1-1/2" (inch)	80	65	85	42.5	100	127	56	3H1516-000	T1-40-1-1/2" -100	5.7
	40 (mm)								308516-000	T1-40-40-100	
40	1-1/2" (inch)	80	65	85	42.5	120	147	56	3H1520-000	T1-40-1-1/2"-120	6.4
	40 (mm)								308520-000	T1-40-40-120	
40	-	80	70	130	65	100	127	56	-	-	6.3
40	40 (mm)	80	65	85	42.5	140	167	56	308521-000	T1-40-40-100-130	7.3
	1-1/2" (inch)								3H1518-000	T1-40-1-1/2"-140	
40	40 (mm)	80	65	85	42.5	140	167	56	308518-000	T1-40-40-140	7.3
	1-1/2" (inch)								3H1523-000	T1-50-1-1/2"-100	
50	40 (mm)	90	80	96	48	100	137	64	308523-000	T1-50-40-100	9
	1-1/2" (inch)								-	-	
50	-	90	80	96	48	100	137	70	-	-	9
	40 (mm)								308529-000	T1-50-40-100-P70	
50	2" (inch)	90	80	96	48	100	137	64	3I1506-000	T1-50-2"-100	8.4
	50 (mm)								309506-000	T1-50-50-100	
50	-	90	80	96	48	100	137	70	-	-	8.4
	50 (mm)								309522-000	T1-50-50-100-P70	
50	2" (inch)	90	82	96	48	110	147	64	3I1515-000	T1-50-2"-110	8.7
	50 (mm)								309515-000	T1-50-50-110	
50	2-1/2" (inch)	98	104	96	48	110	152	64	3J1503-000	T1-50-2-1/2"-110	11
	60 (mm)								310503-000	T1-50-60-110	

## DIN 69880 STATIC HOLDER



### DIMENSIONS

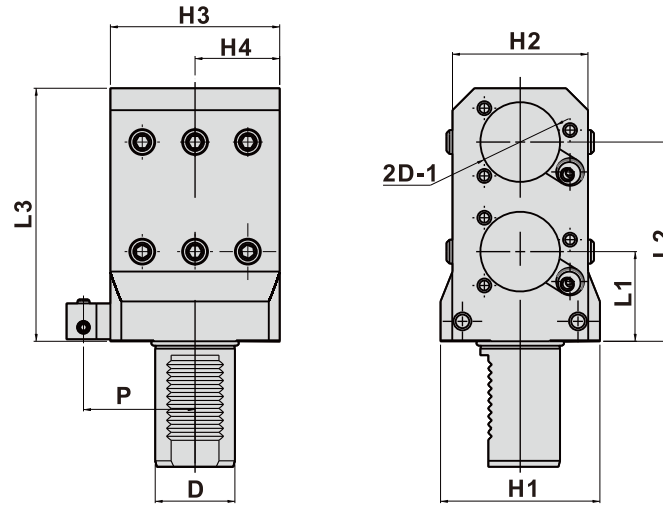
- External coolant supply
- Internal Coolant Supply

D DIN 69880	D1	H1	H2	H3	H4	L1	L2	W	Code No.	Order No.	(Kg) Weight
16	16 (mm)	-	38	42	21	45	61	26	304512-000	T1-16-16-45-W26	1
20	1" (inch)	-	50	50	25	70	90	32	3F1515-000	T1-20-1"-70-W32	1.8
	25 (mm)								306515-000	T1-20-25-70-W32	
30	1-1/4" (inch)	65	52	62	31	65	90	35	3G1530-000	T1-30-1-1/4"-65-W35	2.4
	32 (mm)								307549-000	T1-30-32-65-W35	
30	1-1/4" (inch)	65	52	62	31	85	108	35	3G1531-000	T1-30-1-1/4"-85-W35	3
	32 (mm)								307546-000	T1-30-32-85-W35	
30	1-1/4" (inch)	65	52	62	31	100	123	35	3G1532-000	T1-30-1-1/4"-100-W35	3.2
	32 (mm)								307547-000	T1-30-32-100-W35	
30	1-1/4" (inch)	65	52	62	31	120	143	35	3G1533-000	T1-30-1-1/4"-120-W35	3.9
	32 (mm)								307548-000	T1-30-32-120-W35	
40	1-1/4" (inch)	80	65	85	42.5	85	112	48	3G1534-000	T1-40-1-1/4"-85-W48	5.2
	32 (mm)								307529-000	T1-40-32-85-W48	
40	1-1/2" (inch)	80	65	85	42.5	85	112	48	3H1524-000	T1-40-1-1/2"-85-W48	5
	40 (mm)								308524-000	T1-40-40-85-W48	
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 (mm)								308525-000	T1-40-40-100-W48	
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 (mm)								308540-000	T1-40-40-120-W48	
50	1-1/2" (inch)	90	80	96	48	100	137	52	3H1535-000	T1-50-1-1/2"-100-W52	9
	40 (mm)								308548-000	T1-50-40-100-W52	
50	2" (inch)	90	80	96	48	100	137	52	3I1519-000	T1-50-2"-100-W52	8.4
	50 (mm)								309526-000	T1-50-50-100-W52	
50	2" (inch)	90	82	96	48	110	147	52	3I1520-000	T1-50-2"-110-W52	8.7
	50 (mm)								309521-000	T1-50-50-110-W52	
50	2-1/2" (inch)	98	104	96	48	110	152	52	3J1506-000	T1-50-2-1/2"-110-W52	11
	60 (mm)								310505-000	T1-50-60-110-W52	
60	2" (inch)	104	90	120	60	100	142	64	3I1507-000	T1-60-2"-100-W64	13
	50 (mm)								309507-000	T1-60-50-100-W64	
60	2" (inch)	108	94	120	60	135	177	64	3I1511-000	T1-60-2"-135-W64	16.2
	50 (mm)								309508-000	T1-60-50-135-W64	
60	2-1/2" (inch)	104	90	120	60	100	142	64	3J1502-000	T1-60-2-1/2"-100-W64	12
	60 (mm)								310502-000	T1-60-60-100-W64	
60	2-1/2" (inch)	-	108	120	60	135	182	64	3J1501-000	T1-60-2-1/2"-135-W64	17
	60 (mm)								310501-000	T1-60-60-135-W64	

TYPE

T1-X2-X3

## DIN 69880 STATIC HOLDER

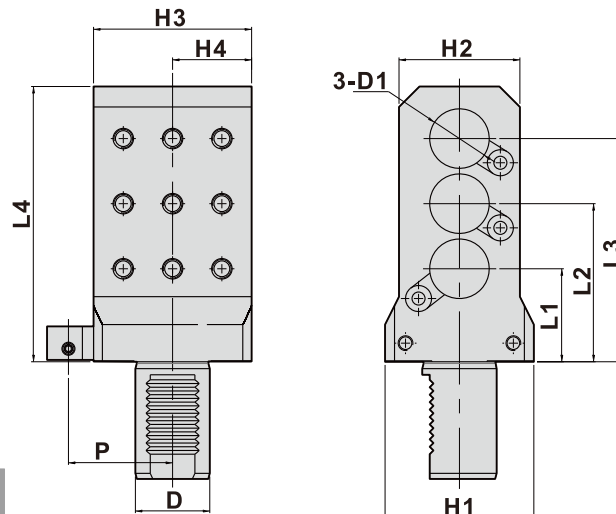


- External coolant supply
- Internal Coolant Supply

### DIMENSIONS

D	D1	H1	H2	H3	H4	L1	L2	L3	P	Code No.	Order No.	(Kg) Weight
30	1" (inch)	-	65	62	31	80	113	133	48	3F1514-000	T1-30-2xB1"-113	3.9
	25 (mm)									306514-000	T1-30-2xB25-113	
30	1" (inch)	-	65	62	31	85	137	158	48	3F1513-000	T1-30-2xB1"-137	4.9
	25 (mm)									306513-000	T1-30-2xB25-137	
30	1-1/4" (inch)	-	65	62	31	55	100	128	48	3G1525-000	T1-30-2xB1-1/4"-100	3.7
	32 (mm)									307525-000	T1-30-2xB32-100	
40	1" (inch)	80	65	85	42.5	85	120	146	56	3F1516-000	T1-40-2xB1"-120	6.9
	25 (mm)									306516-000	T1-40-2xB25-120	
40	1-1/4" (inch)	80	65	85	42.5	47	90	112	56	3G1526-000	T1-40-2xB1-1/4"-90	5.1
	32 (mm)									307526-000	T1-40-2xB32-90	
40	1-1/2" (inch)	80	65	85	42.5	45	100	127	56	3H1510-000	T1-40-2xB1-1/2"-100	4.9
	40 (mm)									308510-000	T1-40-2xB40-100	
40	40 (mm)	80	65	85	42.5	65	120	147	56	308530-000	T1-40-2xB40-120	5.7

## DIN 69880 STATIC HOLDER

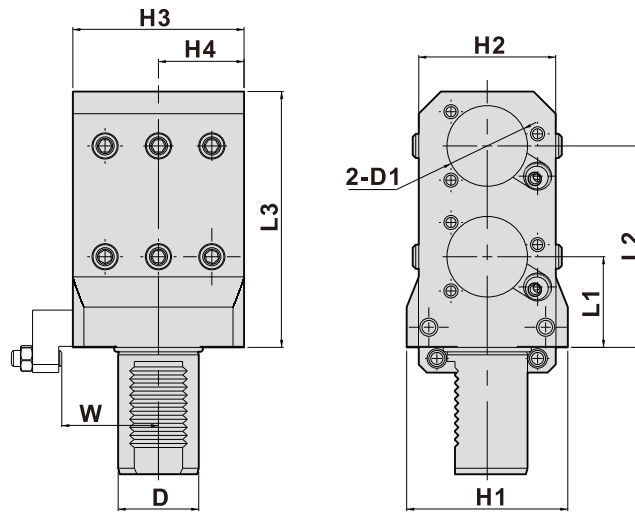


- External coolant supply

### DIMENSIONS

D	D1	H1	H2	H3	H4	L1	L2	L3	L4	P	Code No.	Order No.	(Kg) Weight
30	1" (inch)	65	65	62	31	42	85	128	148	48	3F1511-000	T1-30-3x1"	4.6
	25 (mm)										306511-000	T1-30-3x25	

## DIN 69880 STATIC HOLDER

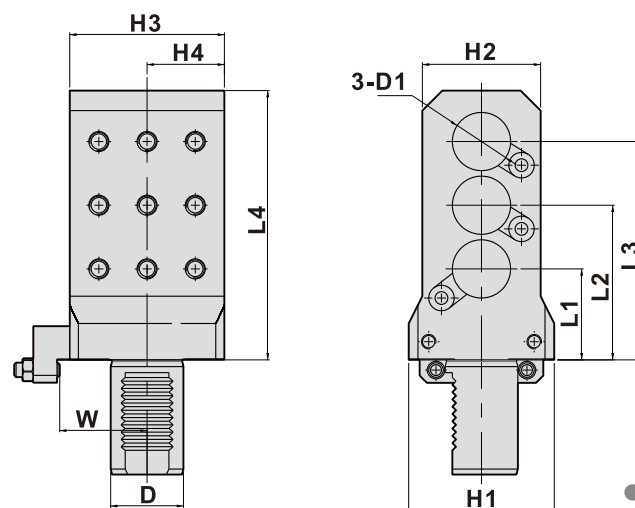


### DIMENSIONS

- External coolant supply
- Internal Coolant Supply

D	D1	H1	H2	H3	H4	L1	L2	L3	W	Code No.	Order No.	(Kg) Weight
30	1" (inch)	-	65	62	31	80	113	133	35	3F1531-000	T1-30-2xB1"-113-W35	3.9
	25 (mm)									306531-000	T1-30-2xB25-113-W35	
30	1" (inch)	-	65	62	31	85	137	158	35	3F1532-000	T1-30-2xB1"-137-W35	4.9
	25 (mm)									306532-000	T1-30-2xB25-137-W35	
30	1-1/4" (inch)	-	65	62	31	55	100	128	35	3G1535-000	T1-30-2xB1-1/4"-100-W35	3.7
	32 (mm)									307550-000	T1-30-2xB32-100-W35	
40	1" (inch)	80	65	85	42.5	85	120	146	48	3F1534-000	T1-40-2xB1"-120-W48	6.9
	25 (mm)									306534-000	T1-40-2xB25-120-W48	
40	1-1/4" (inch)	80	65	85	42.5	47	90	112	48	3G1536-000	T1-40-2xB1-1/4"-90-W48	5.1
	32 (mm)									307551-000	T1-40-2xB32-90-W48	
40	1-1/2" (inch)	80	65	85	42.5	45	100	127	48	3H1536-000	T1-40-2xB1-1/2"-100-W48	4.9
	40 (mm)									308511-000	T1-40-2xB40-100-W48	
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

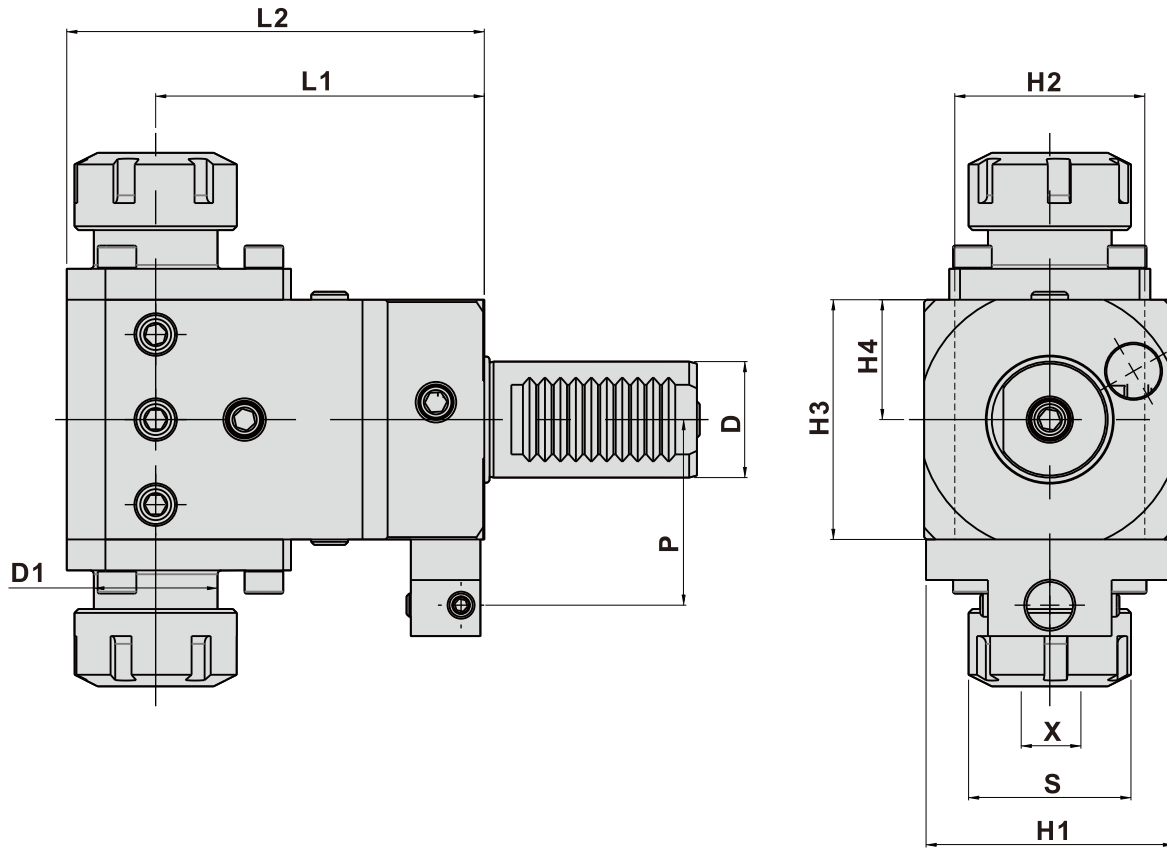


### DIMENSIONS

- External coolant supply

D	D1	H1	H2	H3	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	T1-30-3x1"-W35	4.6
	25 (mm)										306533-000	T1-30-3x25-W35	

## DIN 69880 STATIC HOLDER

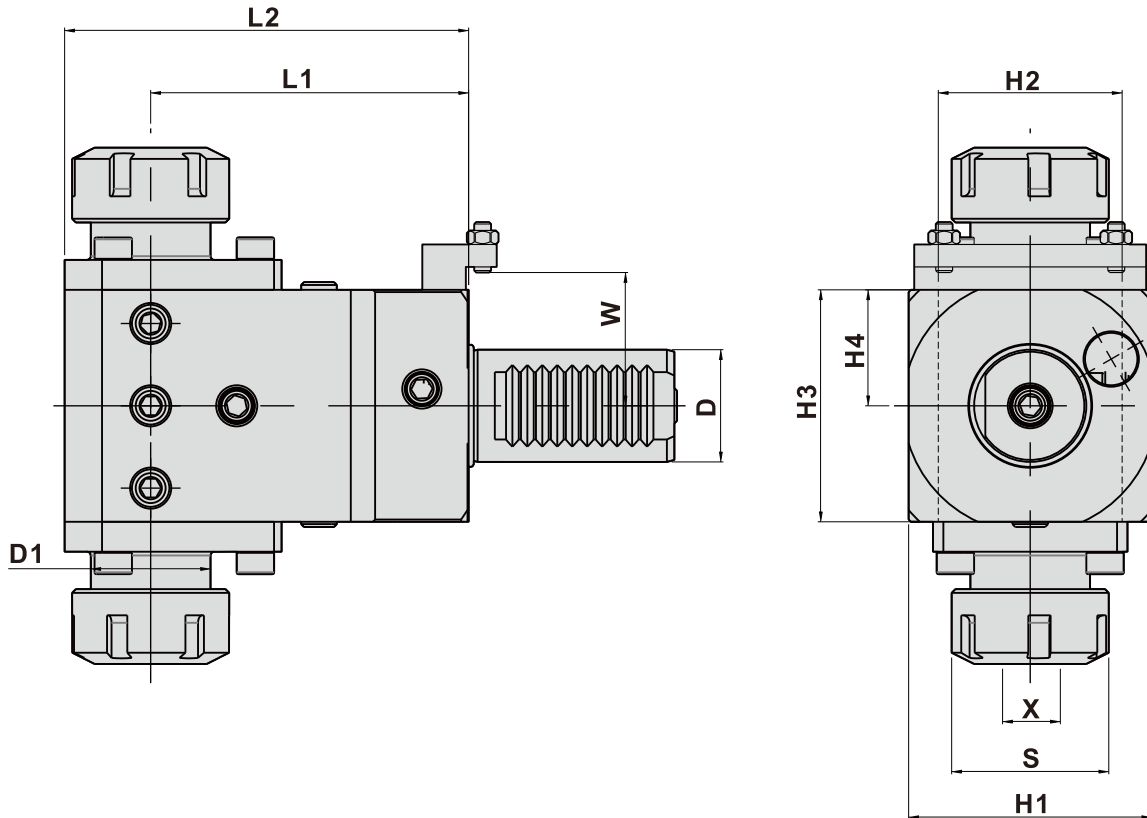


### DIMENSIONS

● External coolant supply

D DIN 69880	D1	X Capacity	S	H1	H2	H3	H4	L1	L2	P	Code No.	Order No.	(Kg) Weight
30	1-1/4" (inch)	1-16	42	65	52	62	31	65	90	48	3G1514-000	T1-30-1-1/4"-65-25x2	3.9
	32 (mm)	ER25									307514-000	T1-30-32-65-25x2	
30	1-1/4" (inch)	1-16	42	65	52	62	31	85	108	48	3G1515-000	T1-30-1-1/4" -85-25x2	4.5
	32 (mm)	ER25									307515-000	T1-30-32-85-25x2	
30	1-1/4" (inch)	1-16	42	65	52	62	31	100	123	48	3G1516-000	T1-30-1-1/4"-100-25x2	4.7
	32 (mm)	ER25									307516-000	T1-30-32-100-25x2	
30	1-1/4" (inch)	1-16	42	65	52	62	31	120	143	48	3G1517-000	T1-30-1-1/4"-120-25x2	5.4
	32 (mm)	ER25									307517-000	T1-30-32-120-25x2	
40	1-1/4" (inch)	1-16	42	80	65	85	42.5	85	112	56	3G1518-000	T1-40-1-1/4"-85-25x2	6.7
	32 (mm)	ER25									307518-000	T1-40-32-85-25x2	
40	1-1/2" (inch)	2-20	50	80	65	85	42.5	85	112	56	3H1526-000	T1-40-1-1/2"-85-32x2	6.6
	40 (mm)	ER32									308526-000	T1-40-40-85-32x2	
40	1-1/2" (inch)	2-20	50	80	65	85	42.5	100	127	56	3H1527-000	T1-40-1-1/2"-100-32x2	7.2
	40 (mm)	ER32									308527-000	T1-40-40-100-32x2	
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



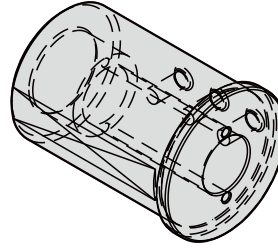
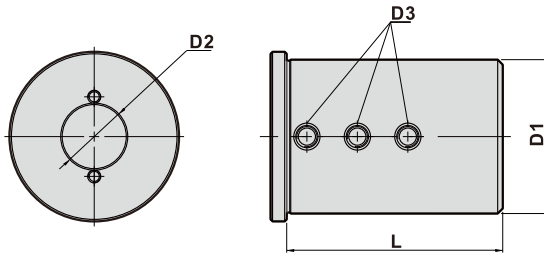
### DIMENSIONS

● External coolant supply

D DIN 69880	D1	X Capacity	S	H1	H2	H3	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
	32 (mm)	ER25									307552-000	T1-30-32-65-25x2-W35	
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
	32 (mm)	ER25									307553-000	T1-30-32-85-25x2-W35	
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
	32 (mm)	ER25									307554-000	T1-30-32-100-25x2-W35	
30	1-1/4" (inch)	1-16	42	65	52	62	31	120	143	35	3G1540-000	T1-30-1-1/4"-120-25x2-W35	5.4
	32 (mm)	ER25									307555-000	T1-30-32-120-25x2-W35	
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
	32 (mm)	ER25									307556-000	T1-40-32-85-25x2-W48	
40	1-1/2" (inch)	2-20	50	80	65	85	42.5	85	112	48	3H1537-000	T1-40-1-1/2"-85-32x2-W48	6.6
	40 (mm)	ER32									308550-000	T1-40-40-85-32x2-W48	
40	1-1/2" (inch)	2-20	50	80	65	85	42.5	100	127	48	3H1538-000	T1-40-1-1/2"-100-32x2-W48	7.2
	40 (mm)	ER32									308551-000	T1-40-40-100-32x2-W48	
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

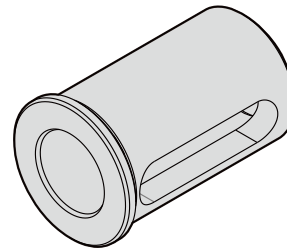
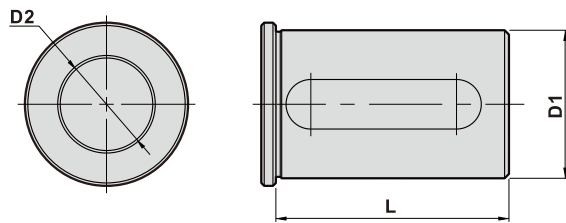


## REDUCING SLEEVE 固定刀座-刀套



### RS-W

- For boring bar holder
- External coolant supply



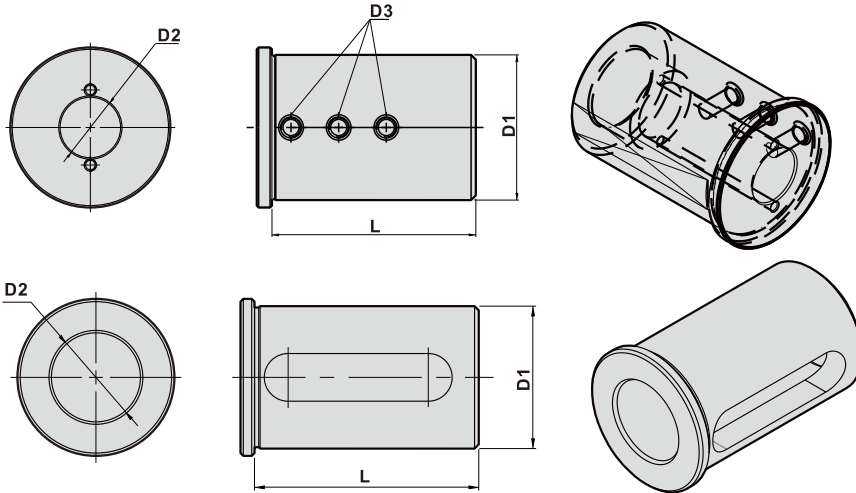
### RS

- For boring bar holder

## DIMENSIONS

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

## REDUCING SLEEVE 固定刀座-刀套



### RS-W

- For boring bar holder
- External coolant supply

### RS

- For boring bar holder

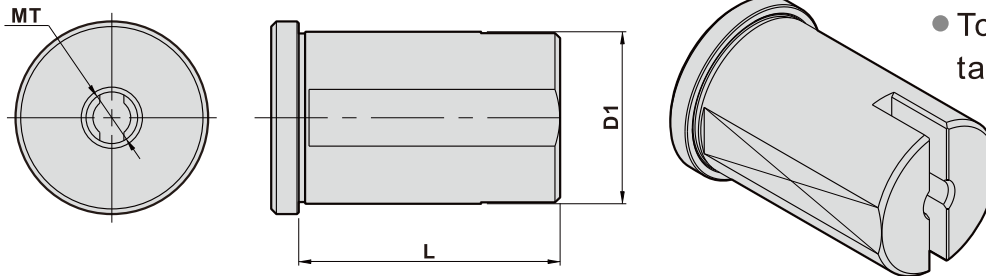
### DIMENSIONS

D1	D2	D3	L	Code No.	Order No.	FIG	(Kg)Weight
3/4"	1/4"	Thread	40	AE1X11-000	E3/4"-1/4"	1	0.10
	5/16"			AE1A11-000	E3/4"-5/16"		0.10
	3/8"			AE1B11-000	E3/4"-3/8"		0.09
	1/2"			AE1C12-000	E3/4"-1/2"	2	0.07
	5/8"			AE1D12-000	E3/4"-5/8"		0.05
1"	1/4"	Thread	50	AF1X11-000	E1"-1/4"	1	0.19
	5/16"			AF1A11-000	E1"-5/16"		0.19
	3/8"			AF1B11-000	E1"-3/8"		0.19
	1/2"			AF1C11-000	E1"-1/2"	0.16	
	5/8"			AF1D12-000	E1"-5/8"	2	0.13
	3/4"	AF1E12-000		E1"-3/4"	0.09		
	1-1/4"	1/4"		Thread	60	AG1X11-000	E1-1/4"-1/4"
5/16"		AG1A11-000	E1-1/4"-5/16"			0.36	
3/8"		AG1B11-000	E1-1/4"-3/8"			0.32	
1/2"		AG1C11-000	E1-1/4"-1/2"			0.31	
5/8"		AG1D12-000	E1-1/4"-5/8"			2	0.28
3/4"		AG1E12-000	E1-1/4"-3/4"	0.24			
1-1/2"		1"	Thread	70		AG1F12-000	E1-1/4"-1"
	1/4"	AH1X11-000			E1-1/2"-1/4"	0.61	
	5/16"	AH1A11-000			E1-1/2"-5/16"	0.59	
	3/8"	AH1B11-000			E1-1/2"-3/8"	0.58	
	1/2"	AH1C11-000			E1-1/2"-1/2"	0.56	
	5/8"	AH1D12-000	E1-1/2"-5/8"		2	0.55	
	3/4"	AH1E12-000	E1-1/2"-3/4"			0.50	
	1"	AH1F12-000	E1-1/2"-1"		0.45		
	1-1/4"	AH1G12-000	E1-1/2"-1-1/4"		0.21		
2"	5/16"	Thread	80	AI1A11-000	E2"-5/16"	1	1.30
	3/8"			AI1B11-000	E2"-3/8"		1.20
	1/2"			AI1C11-000	E2"-1/2"		1.20
	5/8"			AI1D11-000	E2"-5/8"	1.10	
	3/4"			AI1E11-000	E2"-3/4"	1.10	
	1"	AI1F11-000		E2"-1"	1.00		
	1-1/4"	AI1G12-000		E2"-1-1/4"	2	0.80	
	1-1/2"	AI1H12-000		E2"-1-1/2"		0.60	
	2-1/2"	1/2"		Thread	107	AJ1C11-000	E2-1/2"-1/2"
5/8"		AJ1D11-000	E2-1/2"-5/8"			2.50	
3/4"		AJ1E11-000	E2-1/2"-3/4"			2.40	
1"		AJ1F11-000	E2-1/2"-1"			2.20	
1-1/4"		AJ1G11-000	E2-1/2"-1-1/4"			2.00	
1-1/2"		AJ1H12-000	E2-1/2"-1-1/2"	2		1.80	
2"		AJ1I12-000	E2-1/2"-2"			1.10	
3"	1/2"	Thread	107	AL1C11-000	E3"-1/2"	1	3.80
	5/8"			AL1D11-000	E3"-5/8"		3.80
	3/4"			AL1E11-000	E3"-3/4"		3.70
	1"			AL1F11-000	E3"-1"	3.50	
	1-1/4"			AL1G11-000	E3"-1-1/4"	3.20	
	1-1/2"	AL1H11-000		E3"-1-1/2"	3.00		
	2"	AK1I12-000		E3"-2"	2	2.20	
	2-1/2"	AK1J12-000		E3"-2-1/2"		1.30	

## REDUCING SLEEVE 固定刀座-刀套

### RS-MT

- 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
	50	MT2	A25MT2-000	E25-MT2	0.19
32	60	MT1	A32MT1-000	E32-MT1	0.42
	60	MT2	A32MT2-000	E32-MT2	0.40
	60	MT3	A32MT3-000	E32-MT3	0.41
40	70	MT1	A40MT1-000	E40-MT1	0.72
	70	MT2	A40MT2-000	E40-MT2	0.66
	70	MT3	A40MT3-000	E40-MT3	0.74
	70	MT4	A40MT4-000	E40-MT4	0.68
50	76	MT2	A50MT2-000	E50-MT2	1.40
	97	MT3	A50MT3-000	E50-MT3	1.50
	107	MT4	A50MT4-000	E50-MT4	1.60
	125	MT5	A50MT5-000	E50-MT5	0.95
60	76	MT2	A60MT2-000	E60-MT2	1.90
	97	MT3	A60MT3-000	E60-MT3	2.20
	107	MT4	A60MT4-000	E60-MT4	2.30
	125	MT5	A60MT5-000	E60-MT5	2.10

### DIMENSIONS

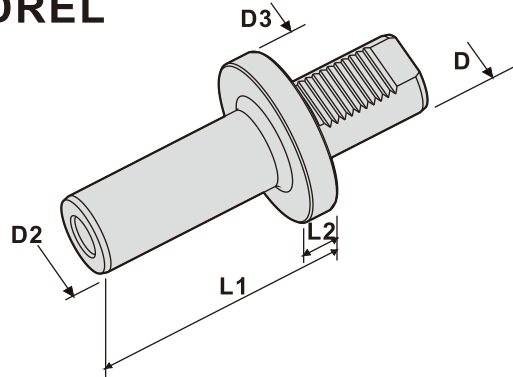
(inch)

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

TYPE

TB1

## DIN 69880 TEST MANDREL 校正棒



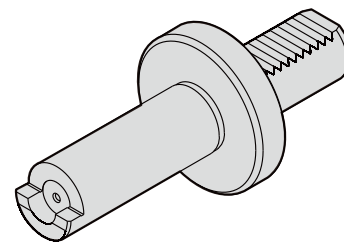
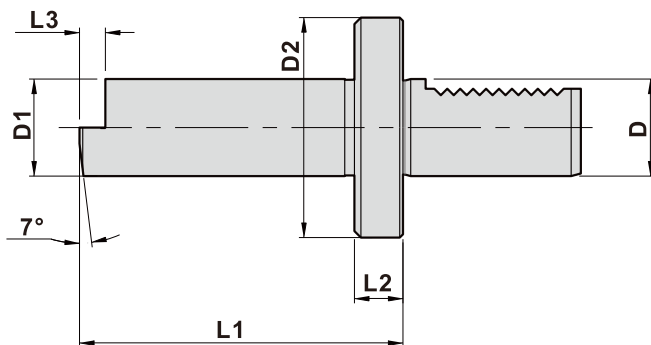
### DIMENSIONS

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 校正棒

TYPE

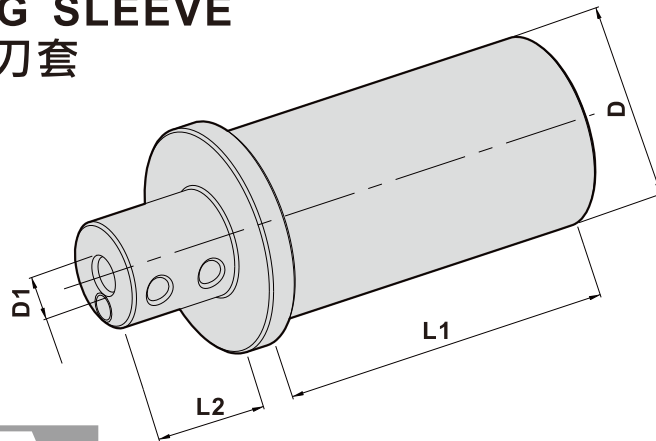
TB2



### DIMENSIONS

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

## REDUCING SLEEVE 固定刀座-刀套



### RS-WE

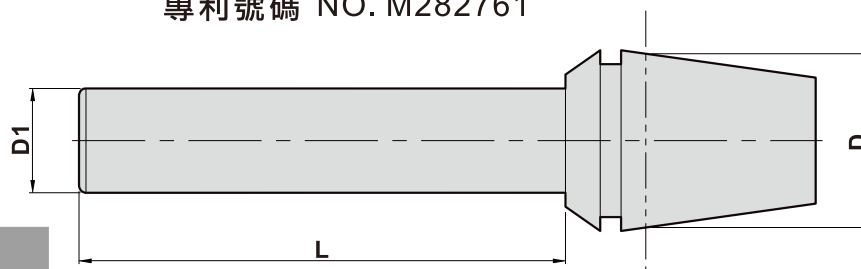
- For Boring Bar holder
- External Coolant Supply

### DIMENSIONS

D		L1	L2	D1	Code No.	Order No.						
32(1-1/4")	mm(inch)	60mm	20mm	1/4"	AG1X15-000	WE1-1/4"-1/4"						
				6	A32065-000	WE32-6						
		60mm	35mm	60mm	35mm	5/16"	AG1A15-000	WE1-1/4"-5/16"				
						8	A32085-000	WE32-8				
						3/8"	AG1B15-000	WE1-1/4"-3/8"				
						10	A32105-000	WE32-10				
						1/2"	AG1C15-000	WE1-1/4"-1/2"				
						12	A32125-000	WE32-12				
						40(1-1/2")	mm(inch)	70mm	20mm	1/4"	AH1X15-000	WE1-1/2"-1/4"
										6	A40065-000	WE40-6
70mm	35mm	70mm	35mm	5/16"	AH1A15-000			WE1-1/2"-5/16"				
				8	A40085-000			WE40-8				
				3/8"	AH1B15-000			WE1-1/2"-3/8"				
				10	A40105-000			WE40-10				
				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



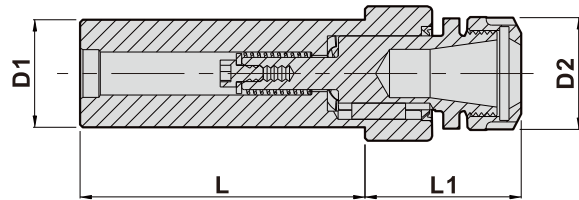
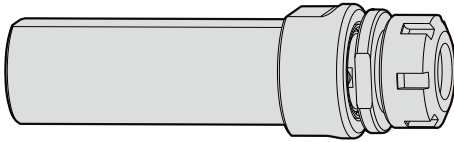
### DIMENSIONS

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
ER25	15	65	ER2501-115	ER25-65L
ER32	18	80	ER3201-115	ER32-80L
ER40	18	80	ER4001-115	ER40-80L
ER50	25	100	ER5001-115	ER50-100L

TYPE

WER-SL

## WER TAPPING CHUCK 側固式直柄攻牙刀柄



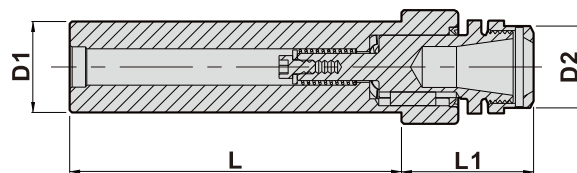
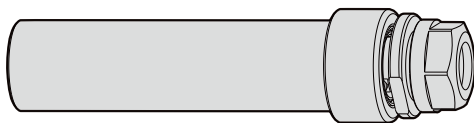
### DIMENSIONS

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



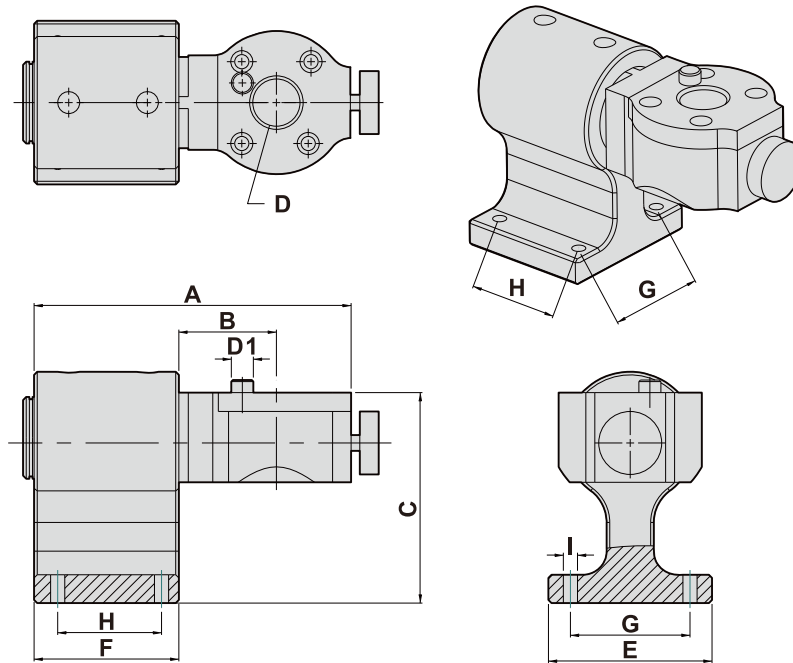
### DIMENSIONS

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



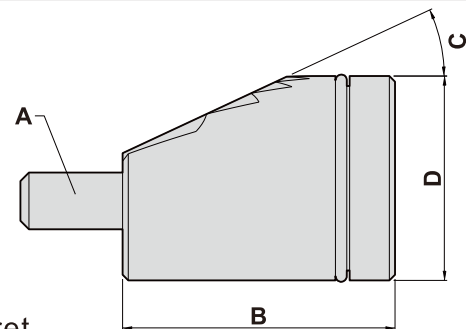
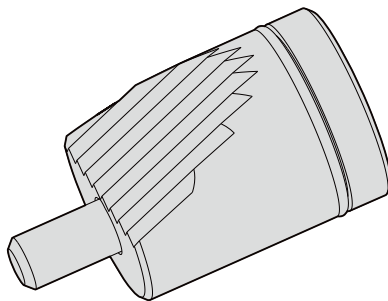
### DIMENSIONS

D	D1	A	B	C	E	F	G	H	I	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

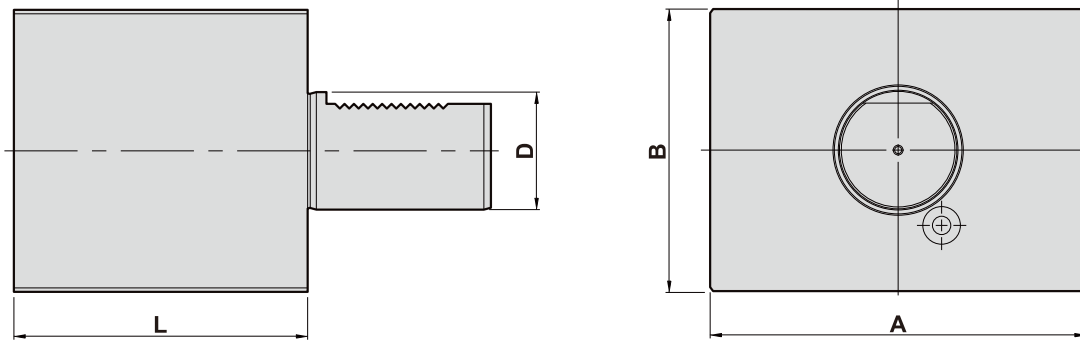


### DIMENSIONS

● Wedge for tool turret

A	B	C	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

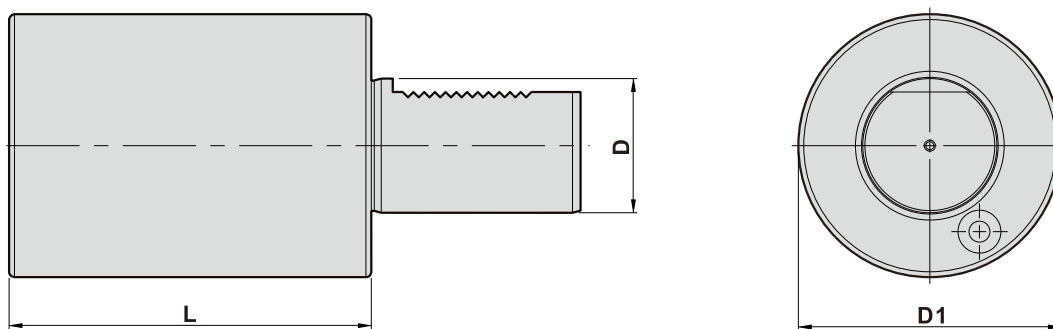
## VDI MATERIAL VDI 素材



### DIMENSIONS

D DIN 69880	A	B	L	Code No.	Order No.	(Kg) Weight
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



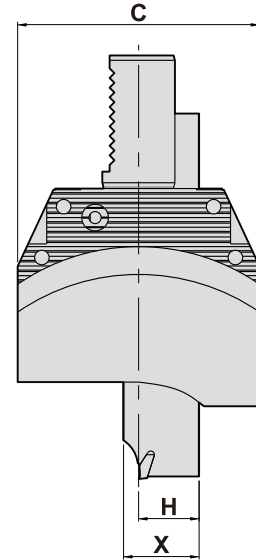
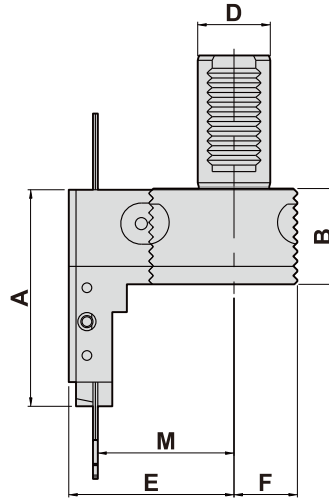
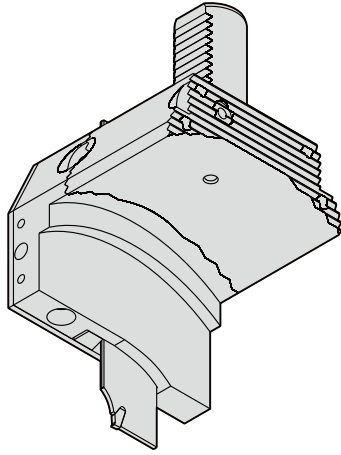
### DIMENSIONS

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



## CUTTING HOLDER

切斷刀座-第一軸刀尖朝上



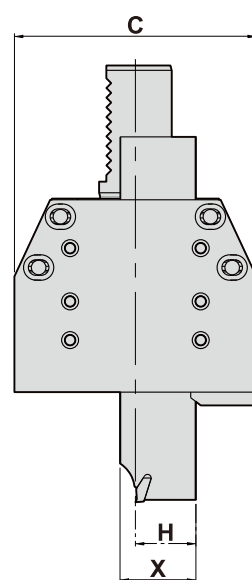
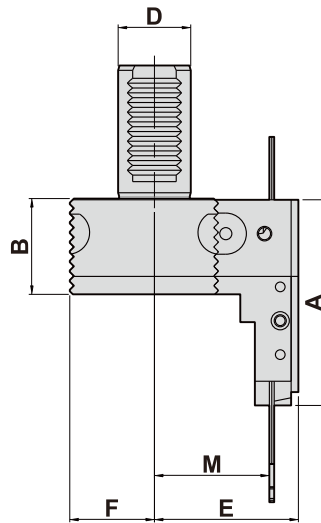
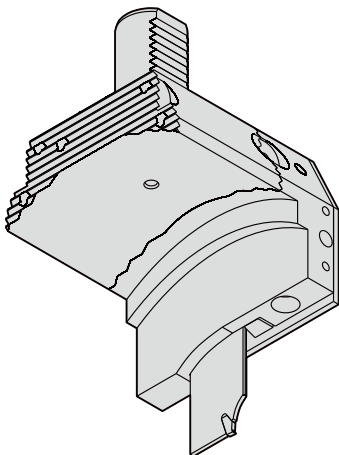
### DIMENSIONS

● External coolant supply

D DIN 69880	A	B	C	E	F	H	X	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



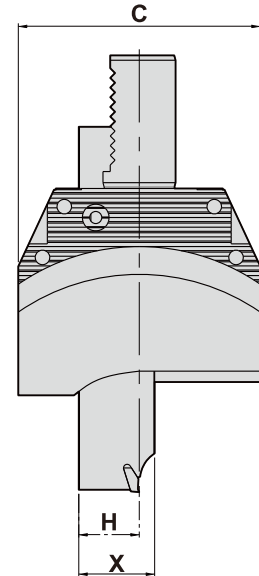
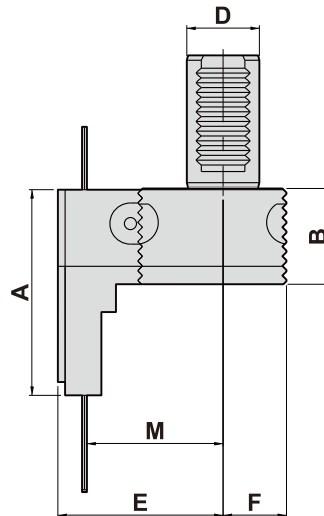
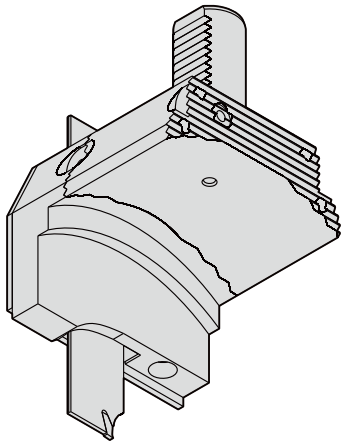
### DIMENSIONS

● External coolant supply

D DIN 69880	A	B	C	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

## CUTTING HOLDER

切斷刀座-第一軸刀尖朝下

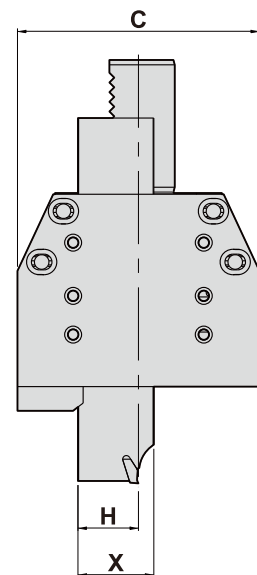
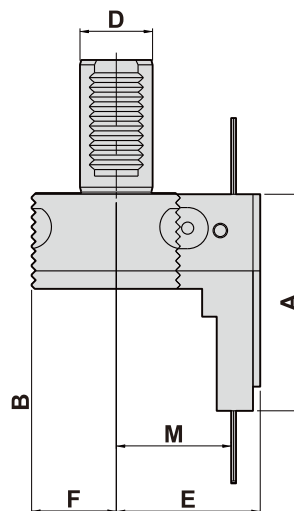
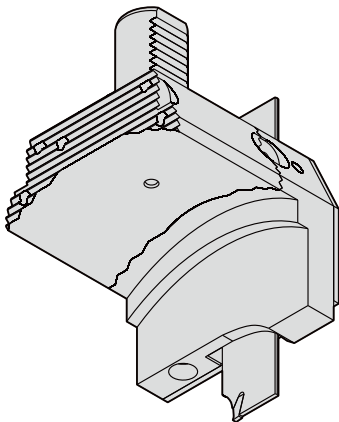


### DIMENSIONS

D DIN 69880	A	B	C	E	F	H	X	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



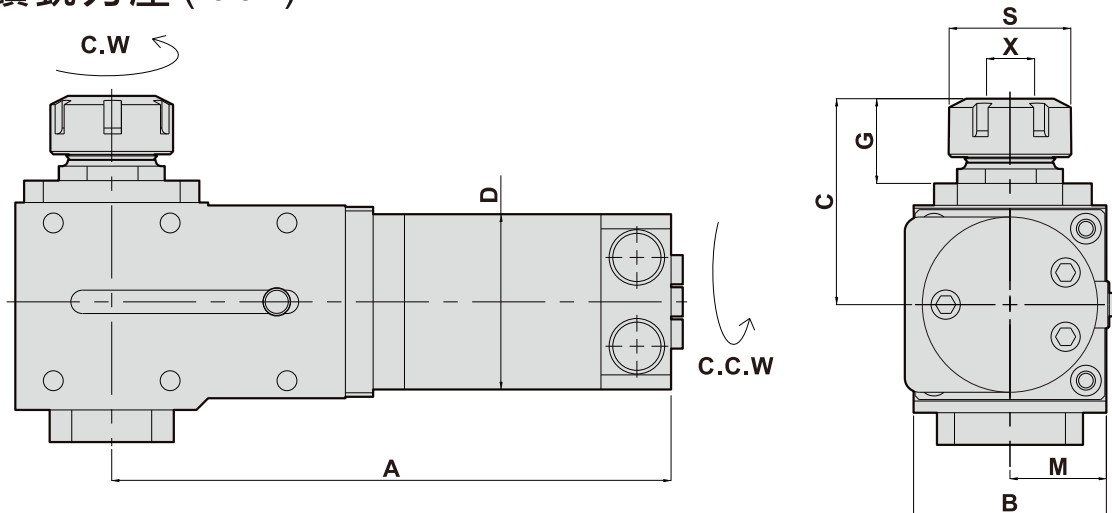
### DIMENSIONS

D DIN 69880	A	B	C	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	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



## RADIAL MILLING AND DRILLING HEAD

徑向鑽銑刀座 (90°)



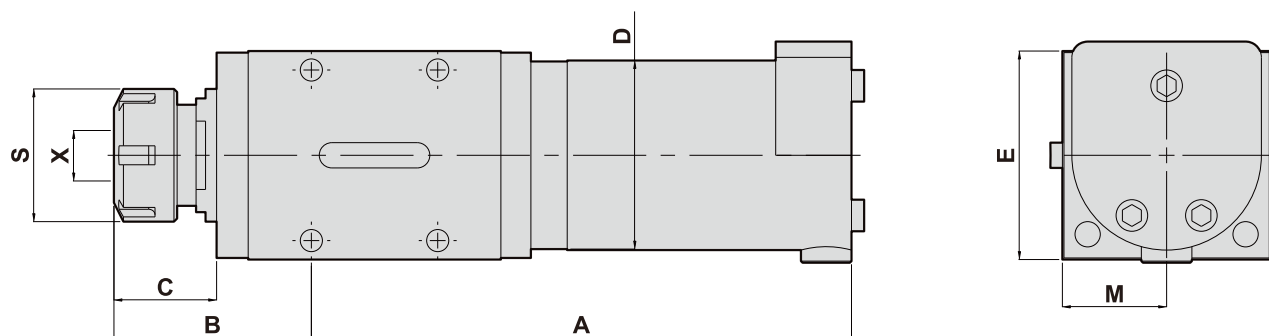
- To be used for collet DIN 6499
- Collet is not included

### DIMENSIONS

D	X Capacity	S	Maximum R.P.M	A	B	C	G	M	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°)



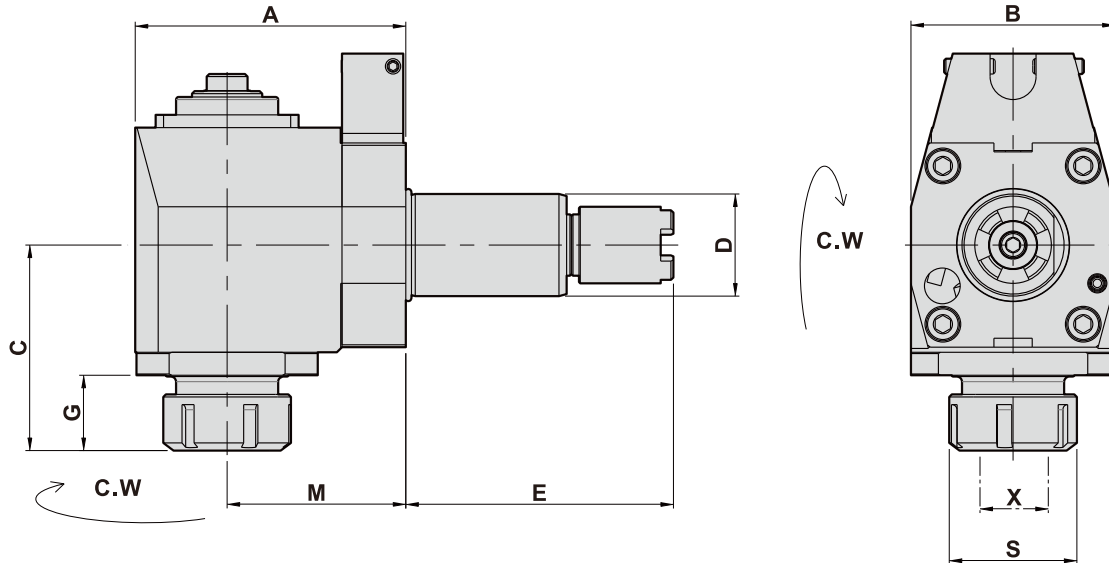
- To be used for collet DIN 6499
- Collet is not included

### DIMENSIONS

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

## RADIAL DRILLING AND MILLING HEAD

徑向鑽銑刀座 ( 90° )



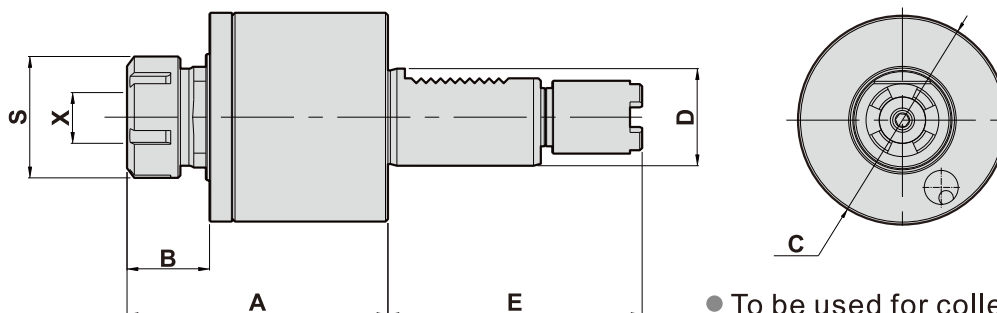
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

### DIMENSIONS

Models	D	X Capacity	S	Maximum R.P.M	A	B	C	G	M	E	Code No.	Order No.	(Kg) Weight
SL-20/TL-15	40	2-20 ER32	50	4000	106	80	85	34	70	104.85	240B61-000	HAAS-FL40-32-70-104	6.5
SL-30/TL-25										117.55	240B62-000	HAAS-FL40-32-70-117	6.6
SL-40/ST-10										130.35	240B63-000	HAAS-FL40-32-70-130	6.6
ST-20 ST-30 SL-40													

## AXIAL MILLING AND DRILLING HEAD

軸向鑽銑刀座 ( 0° )

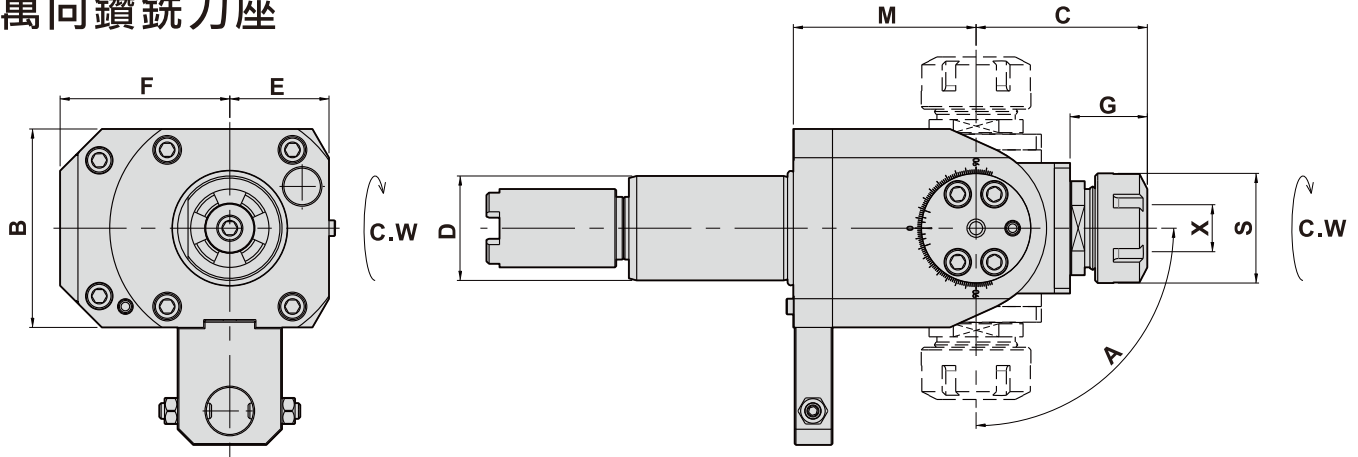


- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

### DIMENSIONS

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

## ANGULAR HEAD 萬向鑽銑刀座

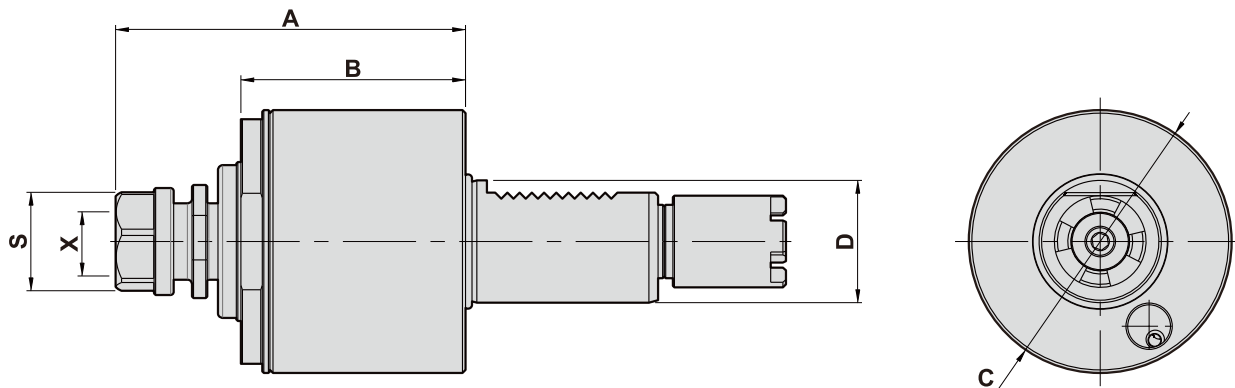


- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

### DIMENSIONS

D DIN 69880	X Capacity	Maximum R.P.M	S	A	B	C	E	F	G	M	Code No.	Order No.	(Kg) Weight
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

### DIMENSIONS

D DIN 69880	X Capacity	Maximum R.P.M	S	i	A	B	C	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

**歐系車銑複合刀座**  
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