

2013

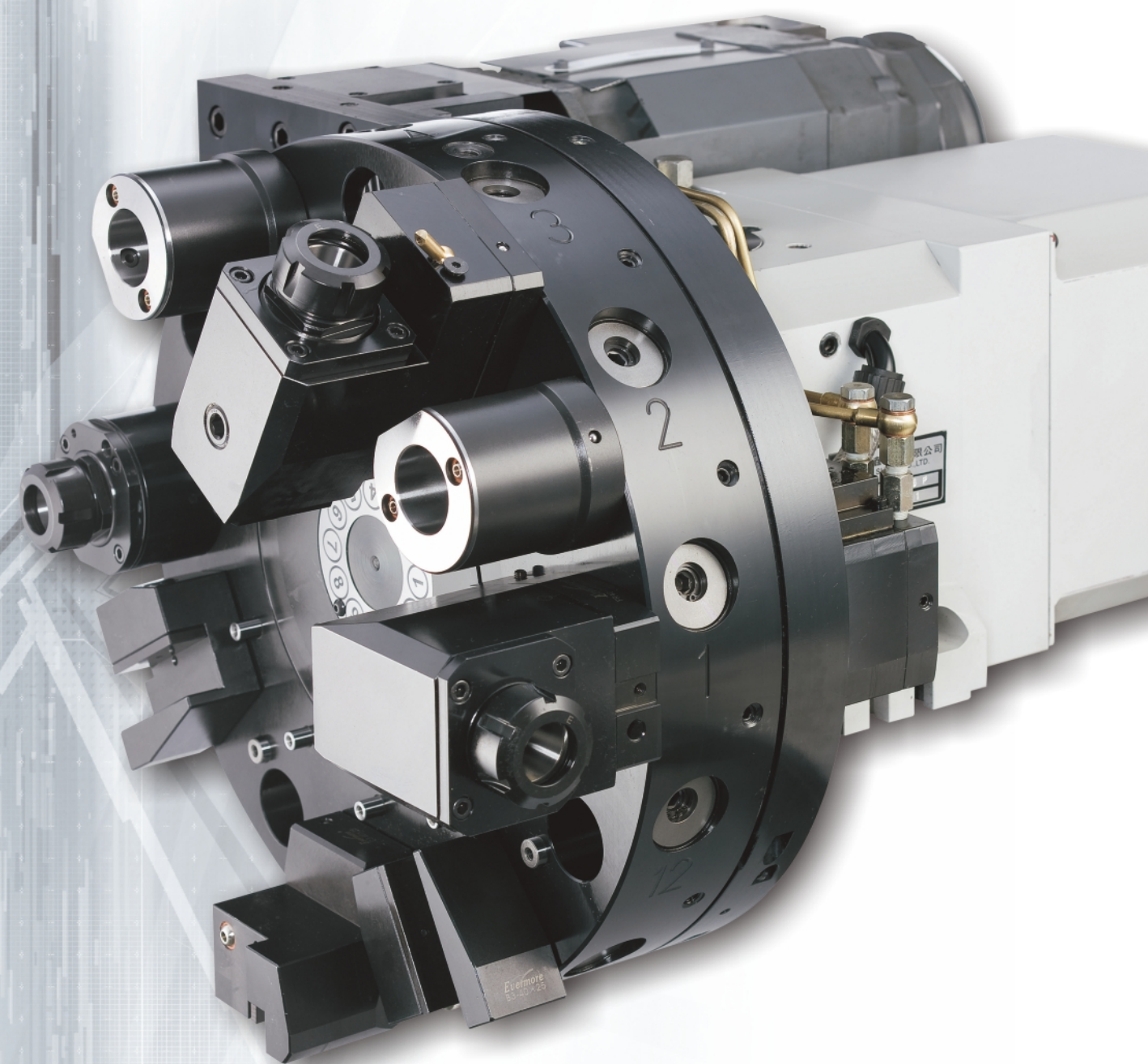
車銑複合刀座

VDI TOOL HOLDERS

Evermore[®]
www.evermore.hdv.tw

2013

車銑複合刀座 VDI TOOL HOLDERS

**ROTARY & STATIC TOOL HOLDERS**

Evermore[®]

勤堃機械股份有限公司
EVERMORE MACHINE CO.,LTD.

台中市霧峰區四德里北豐路33號
No. 33, Pei Fong Rd., Shin Ten Borough,
Wu Feng Dist., Taichung City, Taiwan 413
Tel: +886-4-23398694 Fax: +886-4-23339230
E-mail : ever-more@umail.hinet.net
info@evermore-tools.com
<http://www.evermore-tools.com>

VDI DIN 1809 A

VDI DIN 5480 B

VDI DIN 5482 C

VDI MT D

VDI IT E

VDI DIN 69880 F

VDI BIGLIA G

VDI HYDRAULIC DRIVEN HOLDER 油壓刀座 H

VDI DIN 69880 HAAS I

VDI LTC STATIC HOLDERS J

Company Profile



Online HD Video: <http://www.evermore-hdv.tw>

Website: <http://www.evermore-tools.com>

自1979年創立以來，致力於專業生產 KEYLESS DRILL CHUCK，高精度自緊式鎖夾頭，並創立了自有品牌 "EVERMORE"。

無論在品質維護、技術研發、產能穩定等各方面，多年來始終維持不斷精進的腳步；1992年，成立 VDI部門，生產各種車銑複合車床VDI動力刀座和固定刀座；2002年，延續勤堊成功的經驗，開始生產CNC刀桿，精鏜粗鏜刀桿，HSK刀桿等精密機械配件，並在2009年通過ISO9001:2008國際認證，不論在品質管理上或是客戶服務都達到一定水準。

本公司最重視的是 "品質" 及 "服務"。在嚴格的品管制度下，所有出廠產品皆採用最精密的 "測量儀器" 檢驗，希望在未來的機械配件的領域裡有更高品質展現，提供更精密準確、高速化、複合化產品來滿足客戶的需求、降低客戶的成本、提高效率。

本公司長遠的目標，將所生產產品達到先驅，讓客戶藉由使用我們的產品而改變以往的加工方式，進而提升精度、改善良率、發揮效率，這就是敝公司為本的方針。

EVERMORE MACHINE CO., LTD.

Established in 1979 specializing in the manufacture of KEYLESS DRILL CHUCK under the brand name Evermore.

The company is always pushing ahead and improving business operations, product quality, developing new technology, and stabilizing production capacity. In 1992 the company set up its VDI department producing VDI turning/milling tool holders, and in 2002 successfully began producing CNC tool holder, Boring tooling system, tool holders and other precision machine accessories. With ISO 9001 certifications, and with our outstanding R & D, high quality, safety and durability, our products are in great demand in local markets and export markets. Evermore is a trusted supplier to big names in the machine tool industry around the world.

Quality and service are valued most in our company. Every product is tested by the most precise measuring instruments to meet the strict requirements in the quality control system. It is expected precise, high speed and diversified products of supreme quality can meet our customers' demands so as to reduce the cost for the clients and to increase efficiency.

Vanguard products are the long-term objective of our company. It is hoped customers may change the existing processing methods by using our products with a view to improving precision, yield and efficiency, which is also the management principle of **EVERMORE MACHINE CO., LTD.**



DGB60-ECK5

Adjustment accuracy: 0.001mm Ø

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 : ϕ 0.001mm
- ボーリング範囲 : ϕ 3-208
 ϕ 4-114 (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

■ 主要功能 :

- 最大調節量 : 3.5mm
- 最小顯示值 : ϕ 0.001
- 鏜孔範圍 : ϕ 3-208, ϕ 4-114(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: ϕ 0.001
- Boring range: ϕ 3-208, ϕ 4-114
- 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

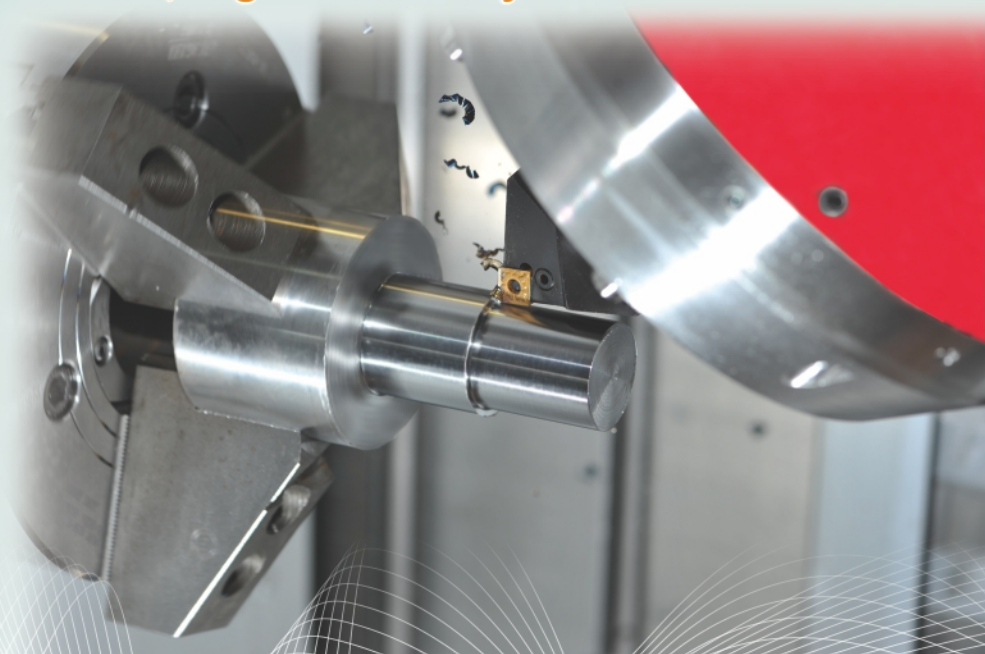
モジュール化された設計によりヘッドを自由に交換できます。ツールが衝撃を受けてもホルダ本体は破損しにくく、ヘッドを交換すれば引き続き使用できます。逆に一体式構造の場合はヘッドが破損するだけで、ツールすべてが使用できなくなります。モジュール化設計は異なるタイプのヘッドに交換するだけで、粗加工、仕上げ加工、溝切り、ねじ切りなど異なる旋盤加工が可能です。非常に便利で実用的な機能により生産コストを大幅にカットすることができます。センタークーラント供給設計はツール先端を効果的かつダイレクトに冷却し、旋盤加工時に発生する熱量とチップ磨耗を低減することにより、チップの使用寿命を延長します。

■ 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

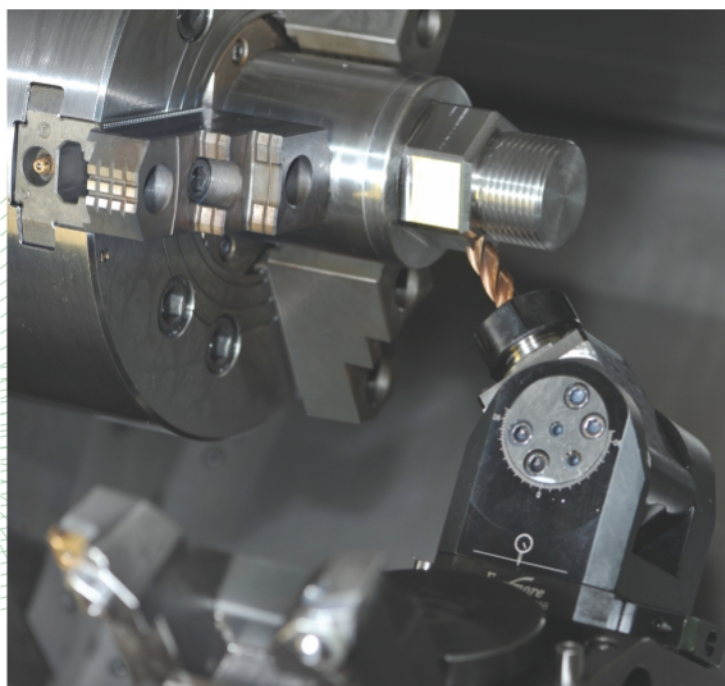
複合加工機 (モジュール化) PSCツールリングシステム

■ 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:

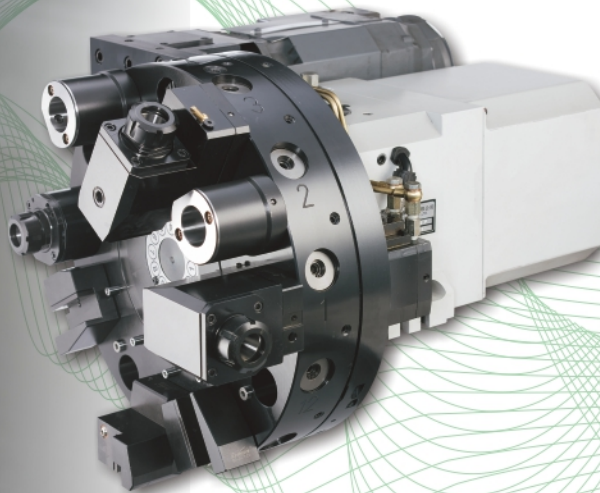
- PSC modular design improves production efficiency.
- Sub-body design. If cutting head is broken, and the tool holder is not. Only replace a new cutting head, and the tool holder can be used continuously.
- It may satisfy users different demand, such as rough turning, fine turning, grooving, threading, 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

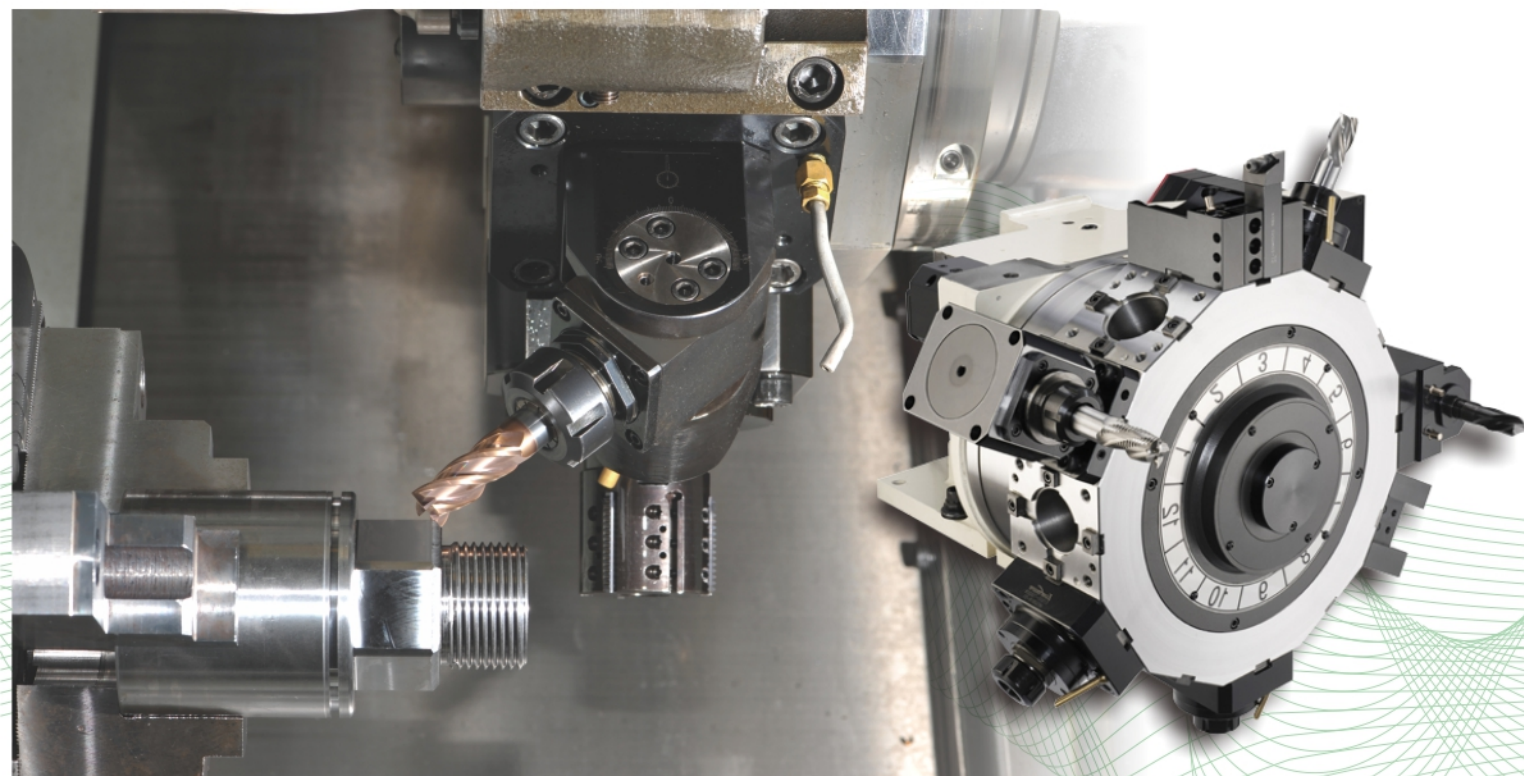


高精度、高轉速、減少干涉！！
High-Precision High-Speed
Minimizes interference!!



EC SMALL DIAMETER HOLDER
EC 後拉式小徑刀柄

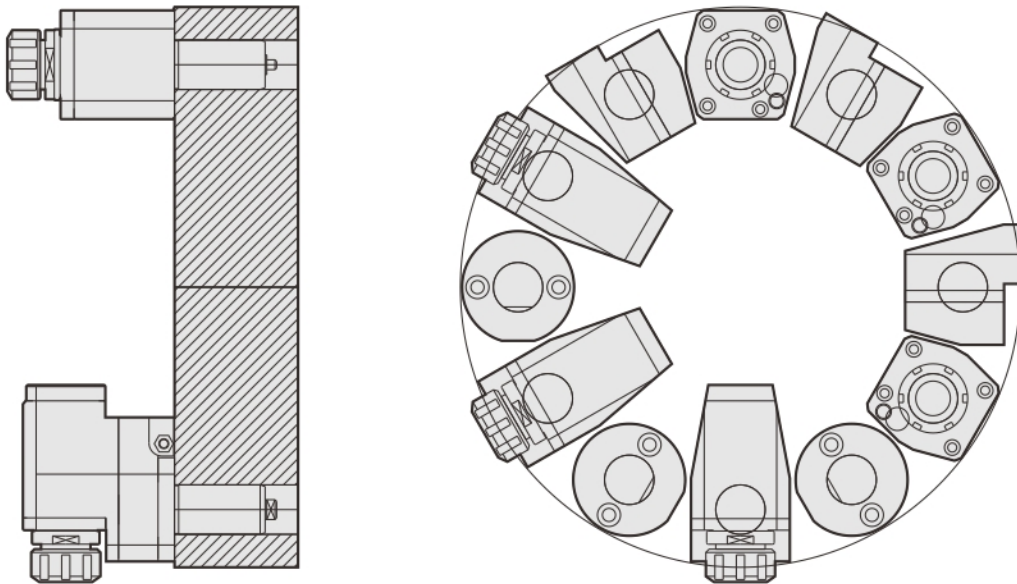
LIVE TOOL HOLDER FOR JAPANESE SERIAL TURNING MILL MACHINE
日本系統複合加工回轉工具



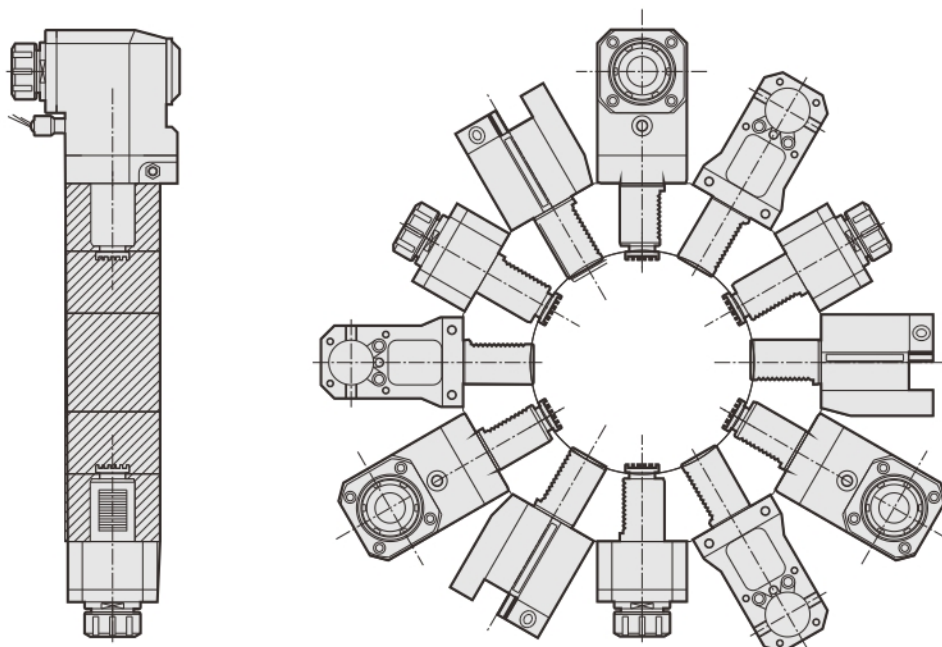
刀塔種類 (DIN 69880系)

依入刀方向

A軸向入刀(axial),(axial turret)



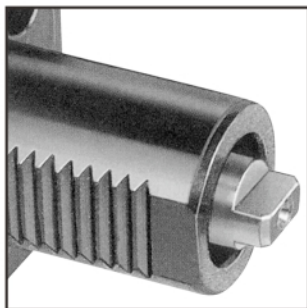
B徑向入刀(radial),(radial turret)



刀塔種類 (DIN 69880系)

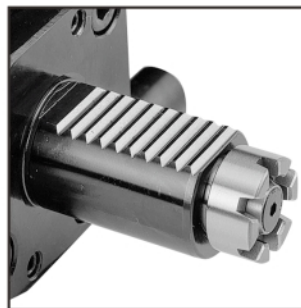
依驅動齒 COUPLING

A DIN 1809(DUPLOMATIC)



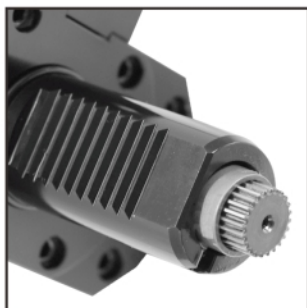
► Coupling to DIN 1809

D MT (BARUFFALDI)



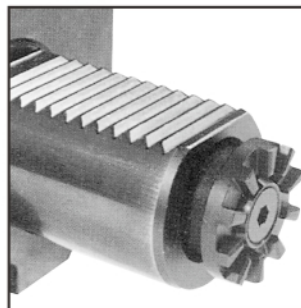
► Spur Coupling

B DIN 5480(SAUTER)(DUPLOMATIC)



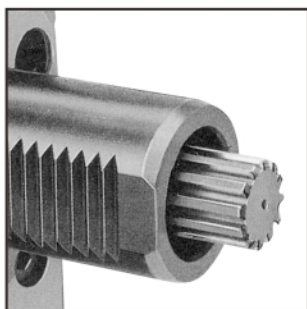
► Coupling to DIN 5480

E IT (DUPLOMATIC)



► Spur Coupling

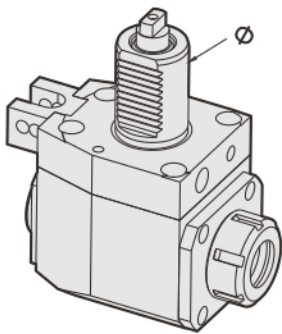
C DIN 5482(SAUTER)(DUPLOMATIC)



► Coupling to DIN 5482

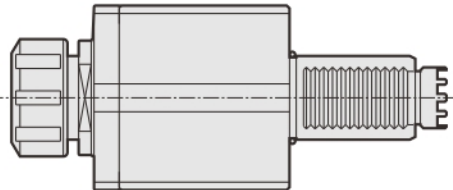
EVERMORE 編碼

尺寸番號



DA

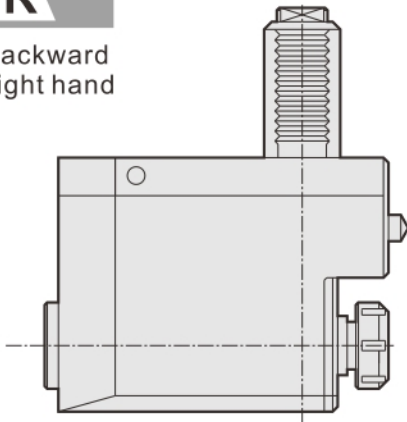
直向驅動



	VDI 20	VDI 30	VDI 40	VDI 50
Ømm	20	30	40	50

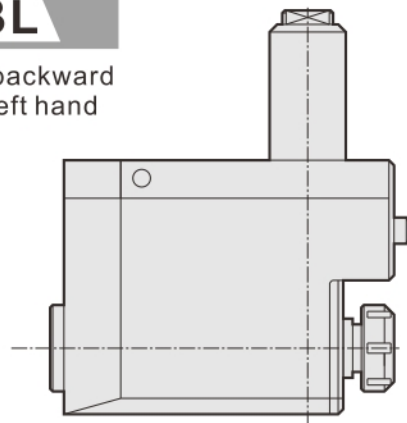
BR

B:backward
R:right hand



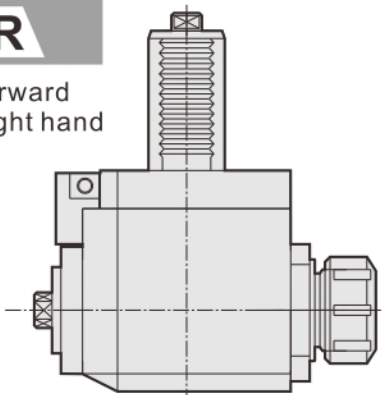
BL

B:backward
L:left hand



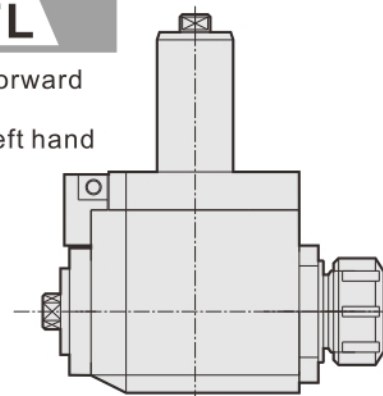
FR

F:forward
R:right hand



FL

F:forward
L:left hand



TXX

T:tapping 攻牙型

EX:

1.BR4018093290

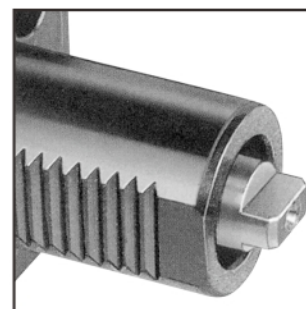
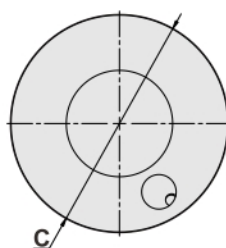
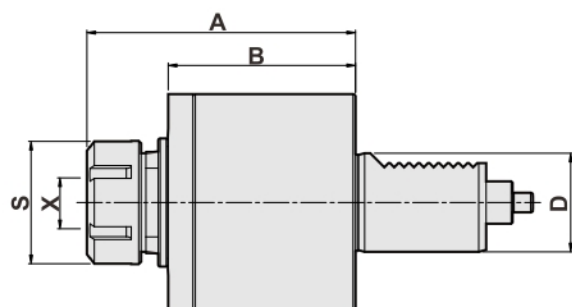
此為VDI 40, 右手式, 聯軸器為1809, 後縮型, 配ER32螺帽, 中心距90mm

2.FL3054822555

此為VDI 30, 左手式, 聯軸器為5482(B15X12), 前伸型, 配ER25螺帽, 中心距55mm

AXIAL DRILLING AND MILLING HEADS

軸向鑽銑刀座 (0°)



▲ Coupling to DIN 1809

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

Power Transmission According to DIN 1809

DIMENSIONS

D DIN 69880	X Capacity		S	Maximum R.P.M	i	A	B	C	Code No.	Order No.
20	1-10	ER16	30	6000	1 : 1	77	49	58	120101-000	DA20180916
30	1-16	ER25	42	6000	1 : 1	101	70	68	130101-000	DA30180925
40	2-20	ER32	50	6000	1 : 1	111	73.5	86	140101-000	DA40180932
40	2-20	ER32	50	6000	1 : 1	89	55	86	140102-000	DAC40180932
40	3-26	ER40	63	6000	1 : 1	103	55	86	140118-000	DA40180940
50	3-26	ER40	63	6000	1 : 1	120	81.5	96	150101-000	DA50180940
60	10-34	ER50	78	6000	1 : 1	140	88.5	116	160101-000	DA60180950

AXIAL TAPPING HEADS

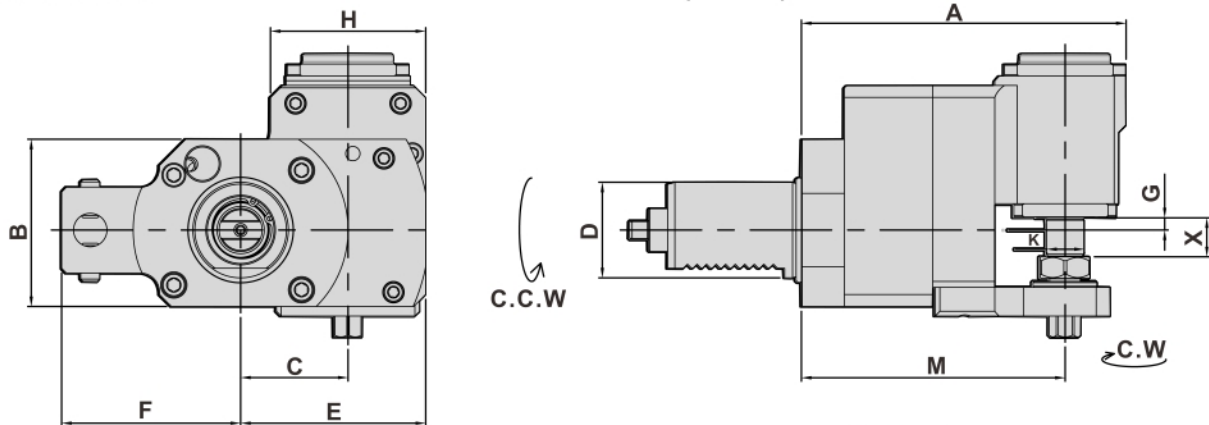
軸向彈性攻牙刀座 (0°)

DIMENSIONS

D DIN 69880	X Capacity		S	Maximum R.P.M	i	A	B	C	Code No.	Order No.
30	1-10	ER16	30	3000	1 : 1	108	71.5	68	130116-000	TDA30180916
40	1-13	ER20	35	3000	1 : 1	95.5	55	86	140122-000	TDAC40180920
50	1-16	ER25	42	3000	1 : 1	123	81.5	96	150116-000	TDA50180925
60	2-20	ER32	50	3000	1 : 1	158.5	88.5	116	160116-000	TDA60180932

RADIAL DRILLING AND MILLING HEADS

徑向側銑刀座-DISK CUTTER UNITS (90°)



● External coolant supply

● i=3倍減速

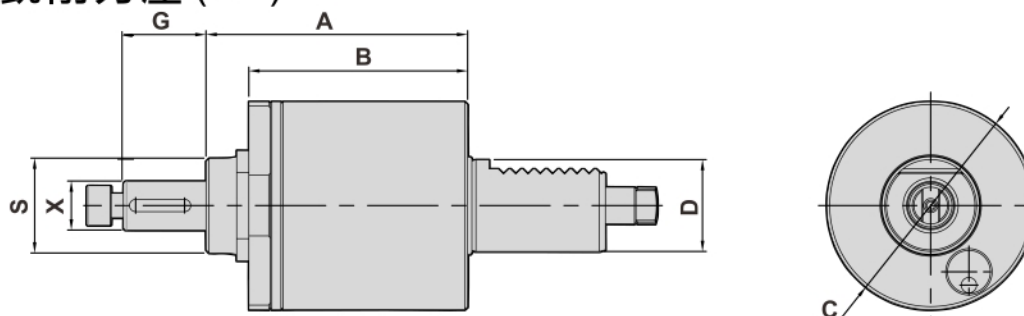
● Other shank dimensions under development

DIMENSIONS

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

AXIAL MILLING AND DRILLING HEADS

軸向銑削刀座 (0°)



● To be used for cutter arbor according to DIN 6358

● External coolant and intermediate rings supply

DIMENSIONS

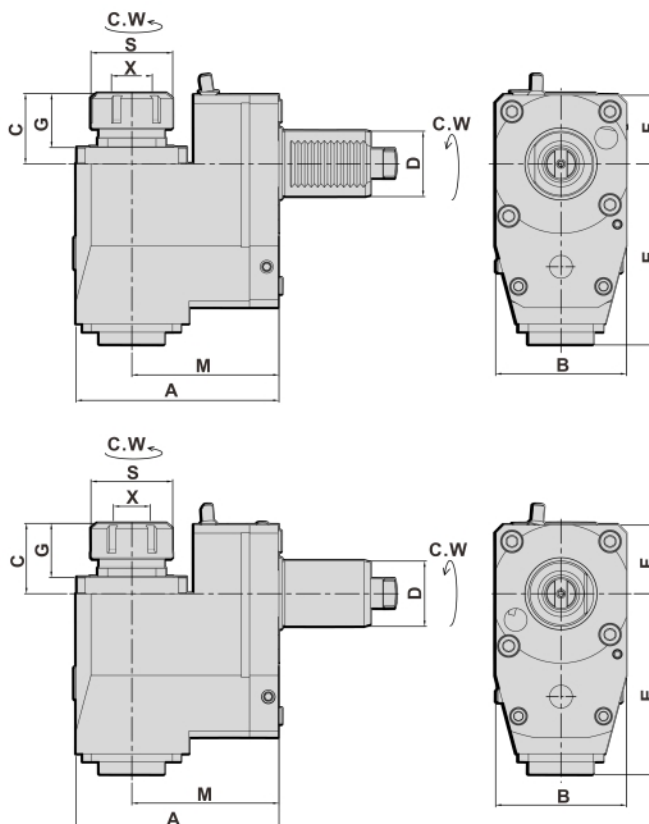
D DIN 69880	X Capacity	Maximum R.P.M	S	i	A	B	C	G	Code No.	Order No.
30	16	3000	32	1 : 1	91.5	70	68	27	130105-000	DA30180916C
40	22	3000	40	1 : 1	86.5	73.5	86	31	140105-000	DA40180922C
50	22	3000	40	1 : 1	117	81.5	96	31	150105-000	DA50180922C
50	27	3000	40	1 : 1	117	81.5	96	33	150106-000	DA50180927C

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.
20	1-10 ER16	30	5000	1:1	83	50	35	70	27	27	60	220101-000 220121-000	BR2018091660 BL2018091660
30	1-16 ER25	42	5000	1:1	95	60	41.5	75.5	31.5	29	72	230101-000 230121-000	BR3018092572 BL3018092572
40	2-20 ER32	50	5000	1:1	124	80	44	110	42	34	90	240101-000 240121-000	BR4018093290 BL4018093290
40	2-20 ER32	50	5000	1:1	179	80	43	111	42	33	145	240110-000	BR40180932145
50	3-26 ER40	63	5000	1:1	129	86	49	112	45	39	90	250101-000 250121-000	BR5018094090 BL5018094090
60	10-34 ER50	78	5000	1:1	154	104	74.5	123	54	52	106	260101-000 260121-000	BR60180950106 BL60180950106

RADIAL TAPPING HEADS

徑向彈性攻牙刀座-後縮型 (90°)

DIMENSIONS

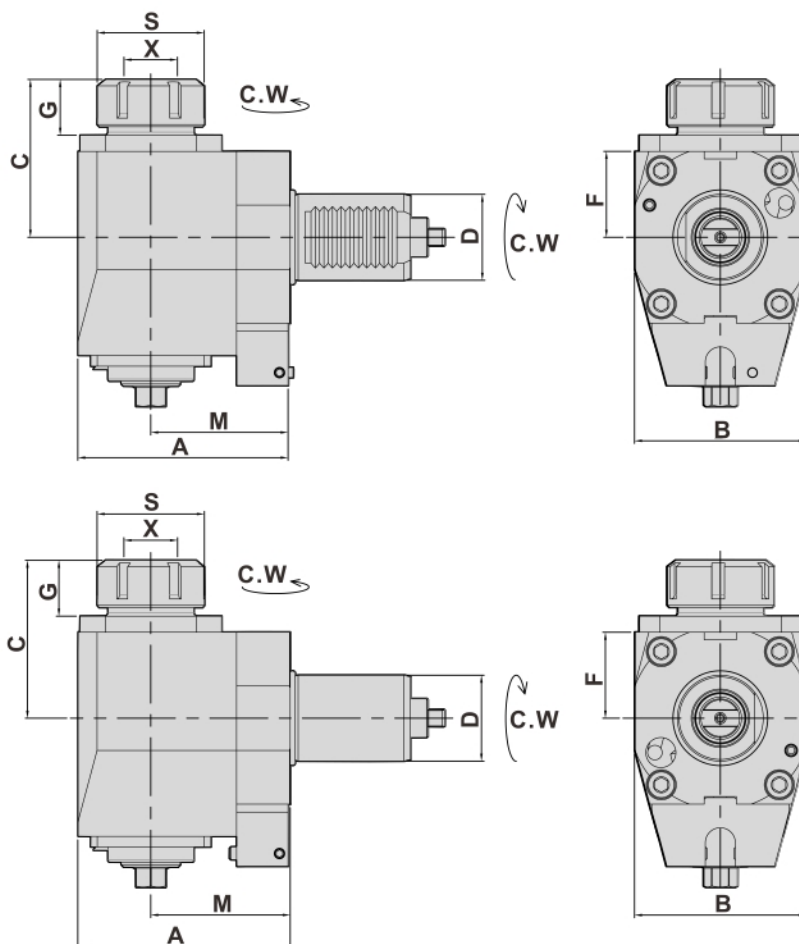
D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	E	F	G	M	Code No.	Order No.
30	1-10 ER16	30	3000	1:1	95	60	44	75.5	31.5	32	72	230105-000 230125-000	TBR3018091672 TBL3018091672
40	1-13 ER20	35	3000	1:1	124	80	59.5	110	42	49.5	90	240105-000 240125-000	TBR4018092090 TBL4018092090
50	1-16 ER25	42	3000	1:1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

RADIAL DRILLING AND MILLING HEADS

徑向鑽銑刀座 (90°)

MODE : FL
LEFT-HAND

MODE : FR
RIGHT-HAND



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

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	F	G	M	Code No.	Order No.
40	2-20 ER32	50	5000	1:1	99	80	71	40	23	65	240181-000	NFR4018093265
											2401101000	NFL4018093265
40	2-20 ER32	50	5000	1:1	121	80	85	40	34	85	240188-000	NFR4018093285
											2401112000	NFL4018093285
40	2-20 ER32	50	5000	1:1	158	80	95.5	40	37	120	240194-000	NFR40180932120
											2401117000	NFL40180932120
40	2-20 ER32	50	5000	1:1	183	80	95.5	40	37	145	240195-000	NFR40180932145
											2401114000	NFL40180932145
50	3-26 ER40	63	5000	1:1	115	88	103	56	40	75	250181-000	NFR5018094075
											2501101000	NFL5018094075

RADIAL TAPPING HEADS

徑向彈性攻牙刀座 (90°)

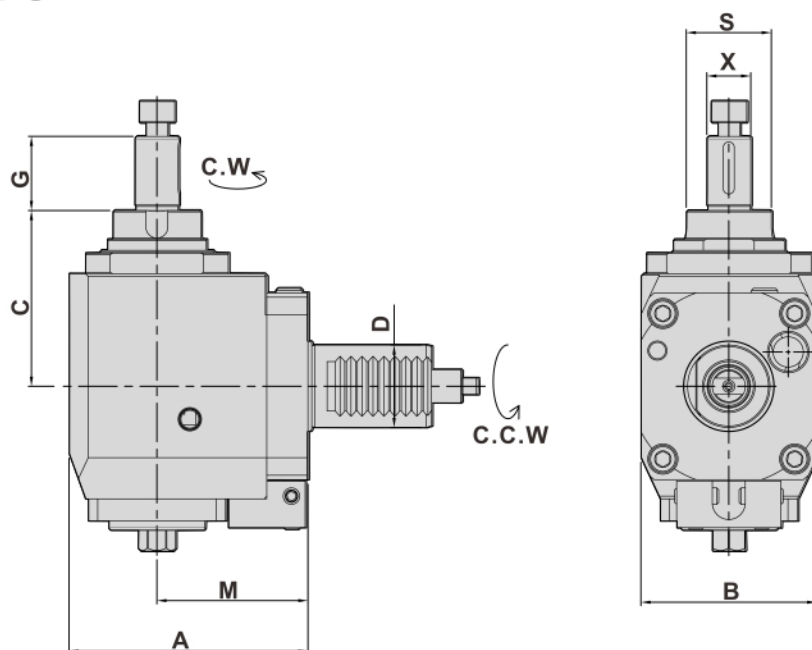
DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	F	G	M	Code No.	Order No.
40	1-13 ER20	35	3000	1:1	99	80	70	40	25	65	240190-000	NTFR4018092065
											2401105000	NTFL4018092065
40	1-13 ER20	35	3000	1:1	121	80	105	40	55.5	85	240191-000	NTFR4018092085
											2401111000	NTFL4018092085
50	1-16 ER25	42	3000	1:1	115	88	105	56	42	75	250188-000	NTFR5018092575
											2501105000	NTFL5018092575

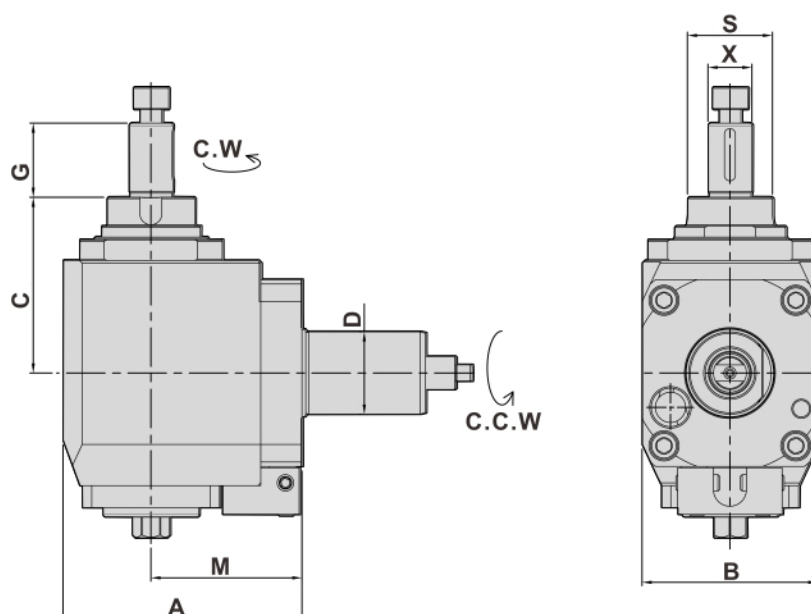
RADIAL TAPPING HEADS

徑向銑削刀座 (90°)

MODE : FL
LEFT-HAND



MODE : FR
RIGHT-HAND



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

DIMENSIONS

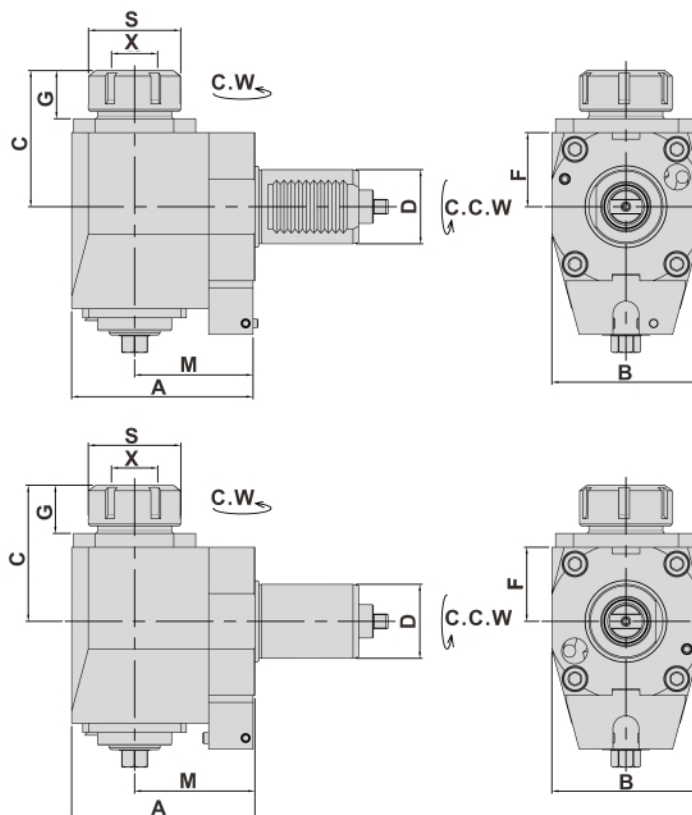
D DIN 69880	X DIN 6358	S	Maximum R.P.M	i	A	B	G	X	M	Code No.	Order No.
30	16	32	5000	1:1	87	64	27	16	55	230144-000 230164-000	FR30180916C55 FL30180916C55

RADIAL DRILLING AND MILLING HEADS

徑向鑽銑刀座 (90°)

MODE : FL
LEFT-HAND

MODE : FR
RIGHT-HAND



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

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	F	G	M	Code No.	Order No.
20	1-10 ER16	30	5000	1:1	67	50	63	27	24.5	45	220141-000 220161-000	FR2018091645 FL2018091645
30	1-16 ER25	42	5000	1:1	87	64	74.5	34	26	55	230141-000 230161-000	FR3018092555 FL3018092555
30	1-16 ER25	42	5000	1:1	117	64	75	34	26.5	85	230148-000 230168-000	FR3018092585 FL3018092585
40	2-20 ER32	50	5000	1:1	99	80	71	40	23	65	240141-000 240161-000	FR4018093265 FL4018093265
40	2-20 ER32	50	5000	1:1	179	80	74.5	40	27	145	240159-000 240179-000	FR40180932145 FL40180932145
50	3-26 ER40	63	5000	1:1	115	88	101	56	34	75	250141-000 250161-000	FR5018094075 FL5018094075

RADIAL TAPPING HEADS

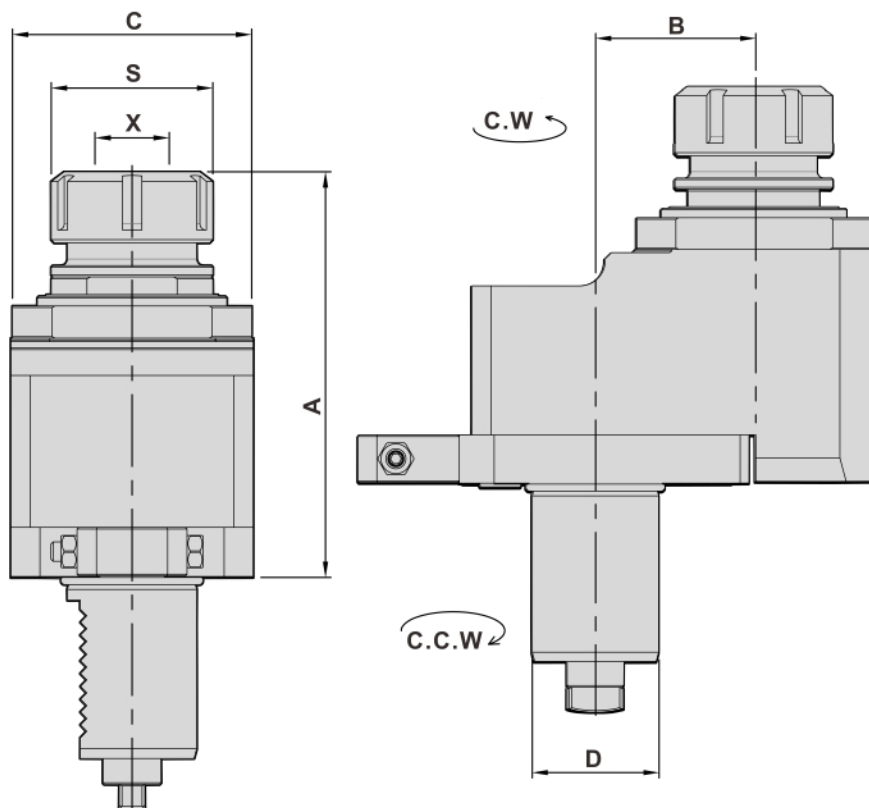
徑向彈性攻牙刀座 (90°)

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	F	G	M	Code No.	Order No.
30	1-10 ER16	30	3000	1:1	87	64	75	41	30	55	230145-000 230165-000	TFR3018091655 TFL3018091655
40	1-13 ER20	35	3000	1:1	99	80	93.5	40	46	65	240145-000 240165-000	TFR4018092065 TFL4018092065
50	1-16 ER25	42	3000	1:1	115	88	103	56	42	75	250145-000 250165-000	TFR5018092575 TFL5018092575

AXIAL DRILLING AND MILLING HEADS

OFFSET-軸向偏心鑽銑刀座 (0°)



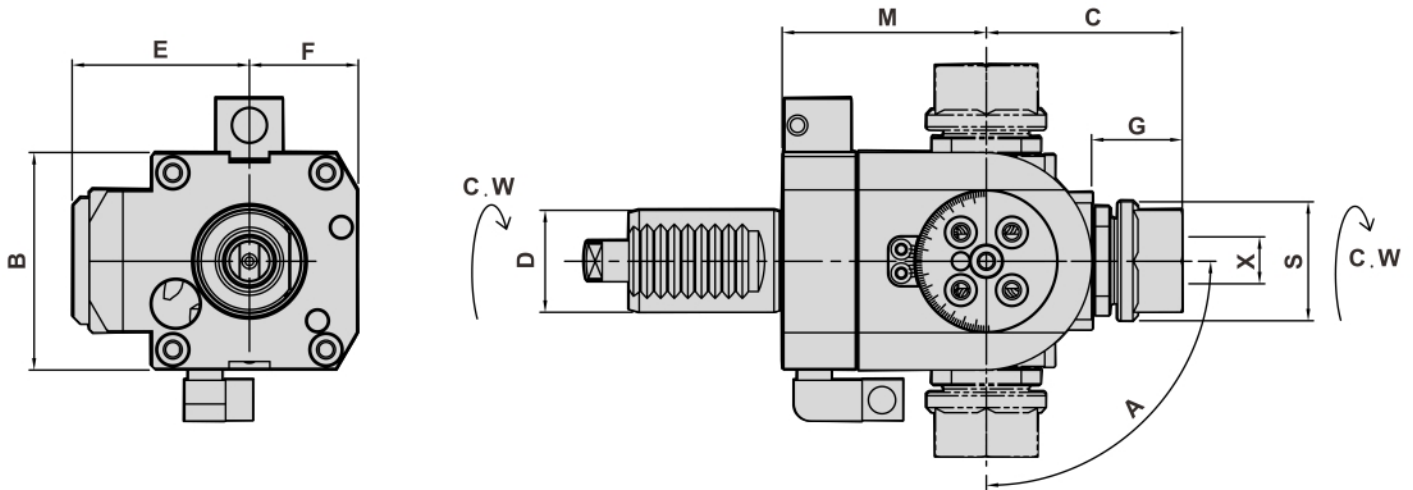
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

DIMENSIONS

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

* 2倍增速

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.
30	1~13 ER20	4000	35	$\pm 90^\circ$	64	59	54	32	27	67	130115-000	DA30180920B
30	1~13 ER20	4000	35	$\pm 90^\circ$	64	59	54	32	27	80	130121-000	DA30180920B/L
40	1~16 ER25	4000	42	$\pm 90^\circ$	76	65	65	38	29	70	140115-000	DA40180925B
60	3~26 ER40	4000	63	$\pm 90^\circ$	108	99	92.5	55	38	97	160115-000	DA60180940B

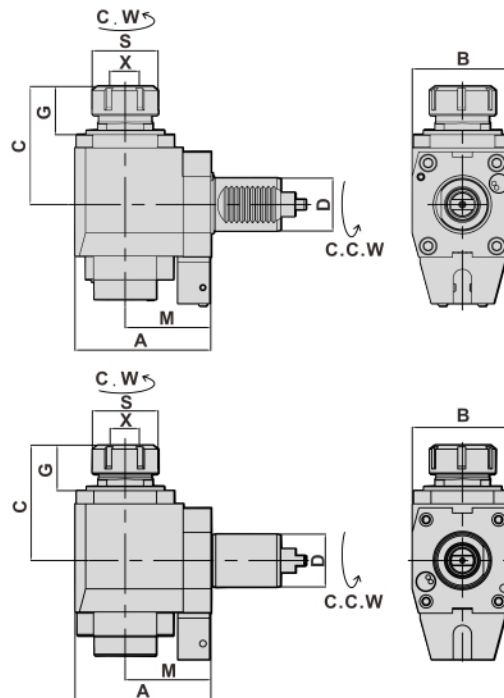
Other shank dimensions under development

RADIAL MILLING AND DRILLING HEADS

徑向鑽銑刀座 (90°)

MODE : FL
LEFT-HAND

MODE : FR
RIGHT-HAND



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

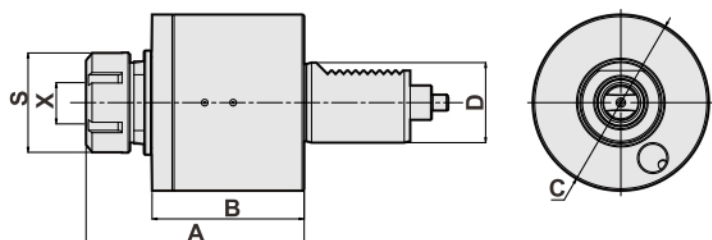
DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	A	B	C	G	M	Code No.	Order No.
30	1-16 ER25	42	4000	87	64	77.5	30	55	230146-000	CWFR3018092555
									230166-000	CWFL3018092555
40	2-20 ER32	50	4000	103	76	87.5	34.5	65	240146-000	CWFR4018093265
									240166-000	CWFL4018093265
40	2-20 ER32	50	4000	123	76	90.5	37.5	85	240154-000	CWFR4018093285
									240174-000	CWFL4018093285
50	3-26 ER40	63	4000	123	88	116	49	75	250146-000	CWFR5018094075
									250166-000	CWFL5018094075

AXIAL MILLING AND DRILLING HEAD

軸向鑽銑刀座 (0°)

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



DIMENSIONS

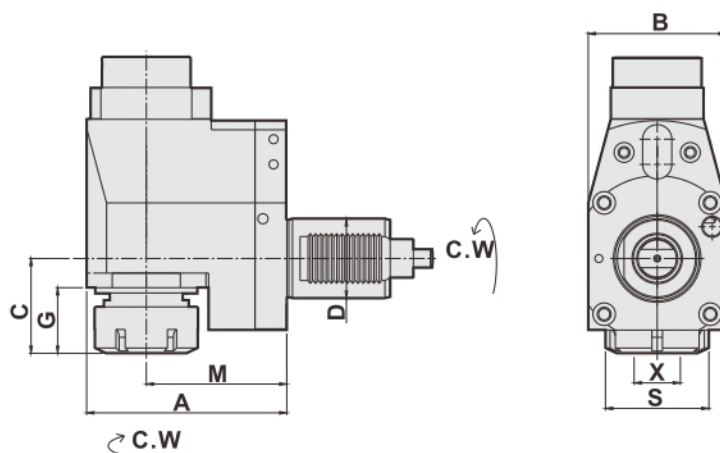
D DIN 69880	X Capacity	S	Maximum R.P.M	A	B	C	Code No.	Order No.
30	1-16 ER25	42	6000	101	72.5	68	130107-000	CWDA301809ER25
40	2-20 ER32	50	6000	129	84	86	140107-000	CWDA401809ER32
50	3-26 ER40	63	6000	134	94.5	96	150107-000	CWDA501809ER40
60	10-34 ER50	78	6000	143	90	116	160107-000	CWDA601809ER50

RADIAL MILLING AND DRILLING HEADS-OFFSET

徑向鑽銑刀座-後縮型 (90°)

MODE : BR
RIGHT-HAND

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



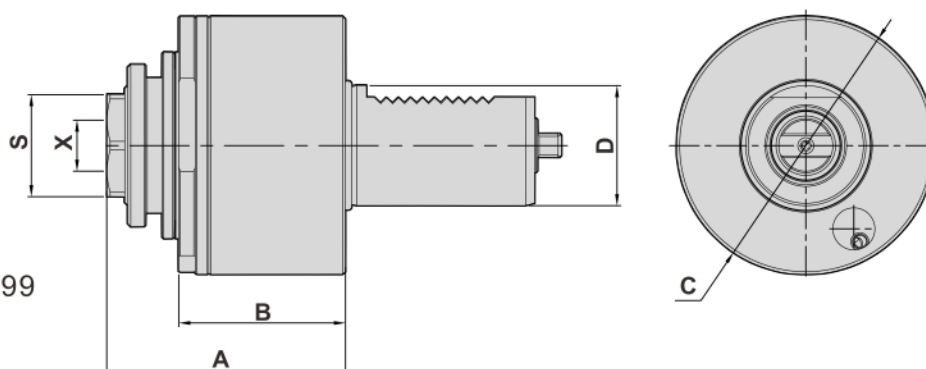
DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	A	B	C	G	M	Code No.	Order No.
40	1-16 ER25	42	4000	128	80	45.5	36.5	90	240106-000	CWBR4018093290
50	2-20 ER32	50	4000	129	86	48.5	38.5	90	250106-000	CWBR5018094090
60	3-26 ER40	63	4000	154	104	69	46.5	106	260108-000	CWBR60180940106
60	10-34 ER50	78	4000	154	104	71.5	50	106	260106-000	CWBR60180950106

AXIAL DRILLING AND MILLING HEADS

軸向鑽銑刀座 (0°)

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

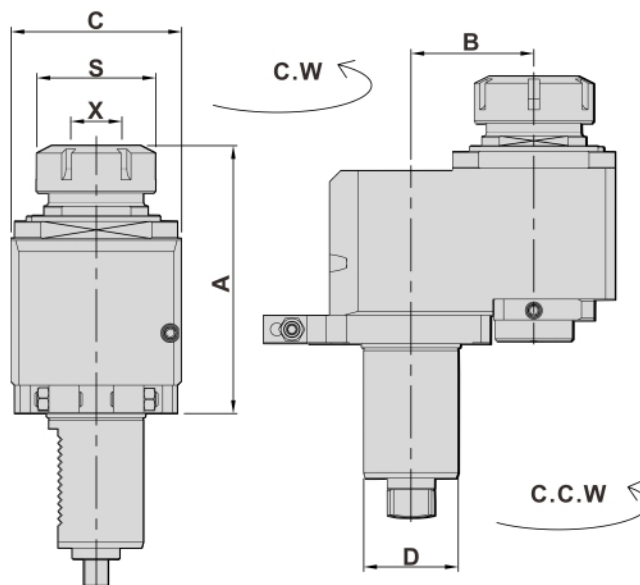


DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	Code No.	Order No.
40	2-20 ER32	38	6000	1:1	79.5	55.5	86	140103-000	DAC401809ER32A

AXIAL DRILLING AND MILLING HEADS OFFSET

軸向偏心鑽銑刀座 (0°)



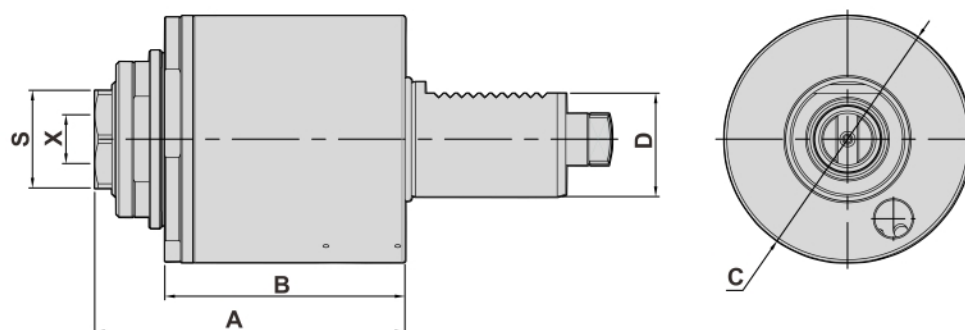
- To be used for collet DIN 6499
- Internal coolant supply 中心出水
- External coolant supply
- Collet is not included

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	Code No.	Order No.
50	3-26 ER40	63	3000	1:1	141	65	90	150113-000	CWDA5018094065

AXIAL DRILLING AND MILLING HEADS

軸向鑽銑刀座 (0°)



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

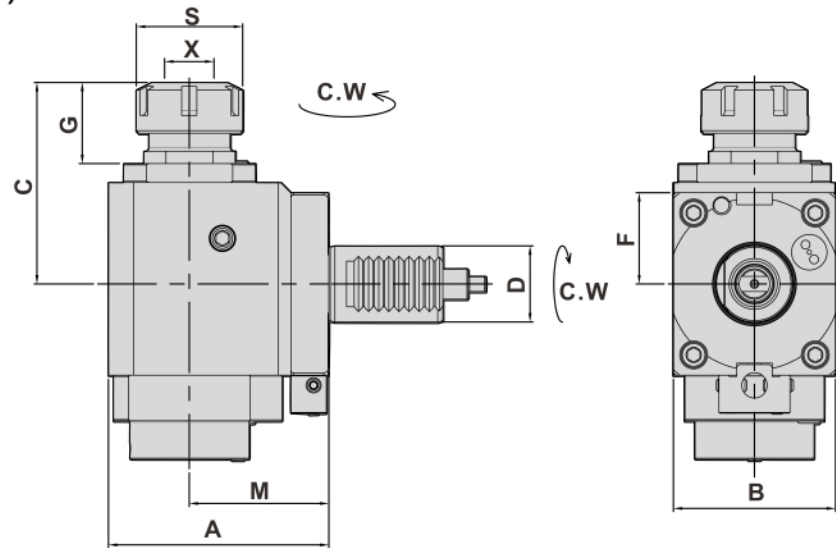
DIMENSIONS

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

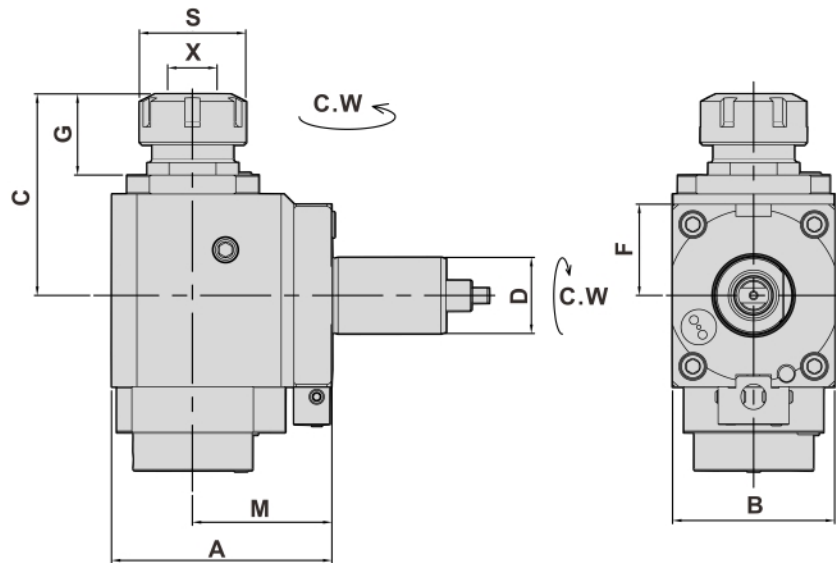
RADIAL DRILLING AND MILLING HEADS

徑向鑽銑刀座 (90°)

MODE : FL
LEFT-HAND



MODE : FR
RIGHT-HAND



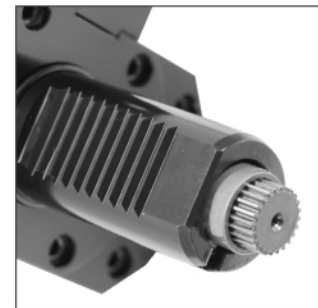
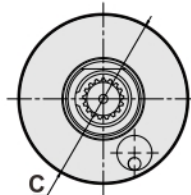
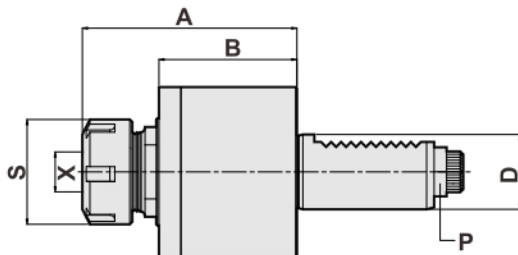
- To be used for collet DIN 6499
- External coolant supply
- Internal coolant supply 中心出水
- Collet is not included

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	G	M	Code No.	Order No.
40	1-16 ER25	42	4000	1:1	87	64	79.5	32	55	230186-000	CWNFR3018092555
										2301101000	CWNFL3018092555

AXIAL DRILLING AND MILLING HEADS

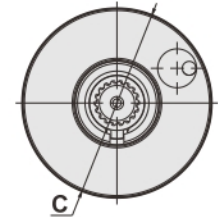
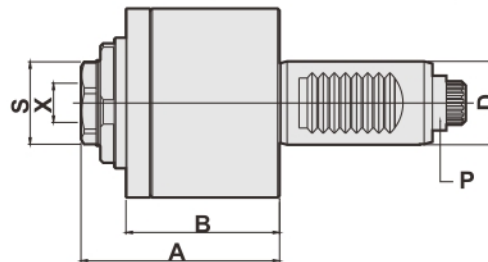
軸向鑽銑刀座 (0°)



▲ 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.
20	1~10 ER16	30	6000	1:1	76	48	58	W11x0.8	120201-000	DA20548016
30	1~16 ER25	30	6000	1:1	70	55	68	W16x0.8	130203-000	DAC30548025A
30	1~16 ER25	42	6000	1:1	85	55	68	W16x0.8	130202-000	DAC30548025
30	1~16 ER25	42	6000	1:1	101	70	68	W16x0.8	130201-000	DA30548025
40	1~16 ER25	42	6000	1:1	88.5	55	86	W20x0.8	140227-000	DAC40548025
40	2~20 ER32	50	6000	1:1	92.5	55	86	W20x0.8	140202-000	DAC40548032
40	2~20 ER32	50	6000	1:1	90	55	86	W20x0.8	140201-000	DA40548032
50	3~26 ER40	63	6000	1:1	122	82	96	W24x1.25	150201-000	DA50548040
60	10~34 ER50	78	6000	1:1	142	88	116	W30x1.25	160201-000	DA60548050

AXIAL TAPPING HEADS

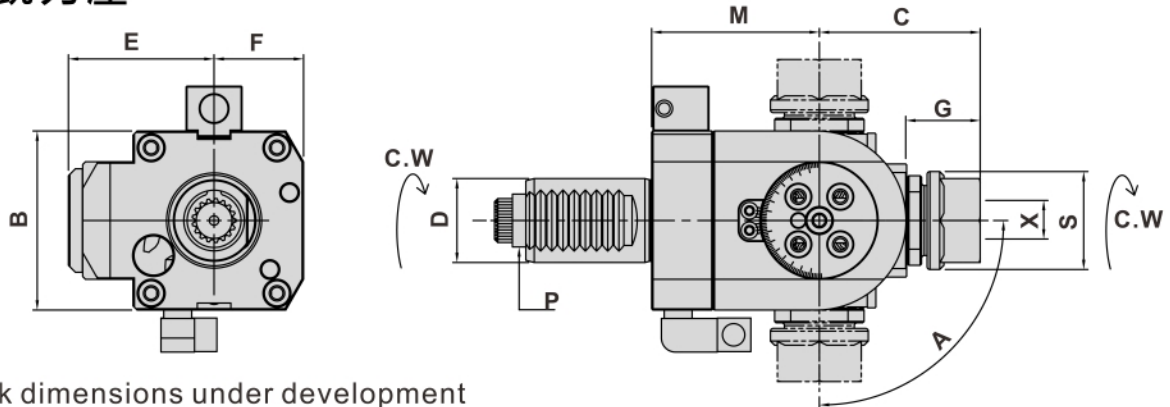
軸向彈性攻牙刀座 (0°)

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	P DIN 5480	Code No.	Order No.
30	1~10 ER16	30	3000	1:1	108	71.5	68	W16x0.8	130216-000	TDA30548016
40	1~13 ER20	35	3000	1:1	95.5	55	86	W20x0.8	140222-000	TDAC40548020
50	1~16 ER25	42	3000	1:1	123	81.5	96	W24x1.25	150216-000	TDA50548025
60	2~20 ER32	50	3000	1:1	158.5	88.5	116	W30x1.25	160216-000	TDA60548032

ANGULAR HEAD

萬向鑽銑刀座



Other shank dimensions under development

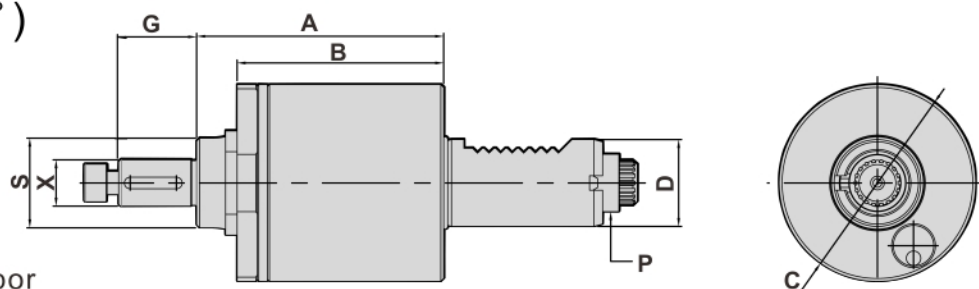
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

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.
30	1~13 ER20	4000	35	±90°	64	59	54	32	27	67	W16X0.8	130215-000	DA30548020B
40	1~16 ER25	4000	42	±90°	76	65	65	38	29	70	W20X0.8	140215-000	DA40548025B
60	3~26 ER40	4000	63	±90°	108	99	92.5	55	38	97	W30X1.25	160215-000	DA60548040B

AXIAL DRILLING AND MILLING HEADS

軸向鑽銑刀座 (0°)



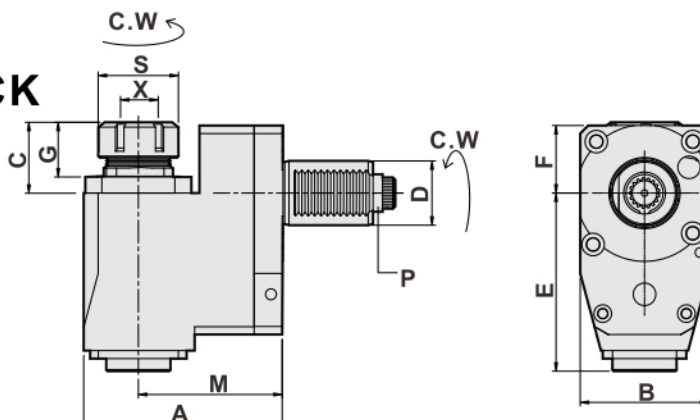
- To be used for cutter arbor according to DIN6358
- External coolant and intermediate rings supply.

DIMENSIONS

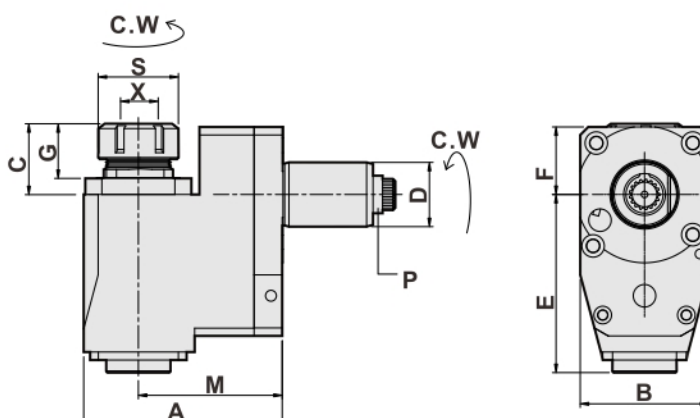
D DIN 69880	X DIN 6358	Maximum R.P.M	S	A	B	C	G	P DIN 5480	Code No.	Order No.
30	16	3000	32	91.5	70	68	27	W16X0.8	130206-000	DA30548016C
40	16	3000	32	68.5	55	86	27	W20X0.8	140205-000	DA40548016C
40	22	3000	32	68.5	55	86	31	W20X0.8	140206-000	DA40548022C

RADIAL DRILLING AND MILLING HEADS-SET BACK 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.
20	1-10 ER16	30	5000	1:1	88	50	37	70	27	28.5	65	W11X0.8	220201-000	BR2054801665
													220221-000	BL2054801665
30	1-16 ER25	42	5000	1:1	95	60	41.5	75.5	31.5	28.5	72	W16X0.8	230201-000	BR3054802572
													230221-000	BL3054802572
40	2-20 ER32	50	5000	1:1	124	80	44	110	42	34	90	W20X0.8	240220-000	BR4054803290
													240221-000	BL4054803290
50	3-26 ER40	63	5000	1:1	129	86	49	112	42	39	90	W24X1.25	250201-000	BR5054804090
													250221-000	BL5054804090

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

DIMENSIONS

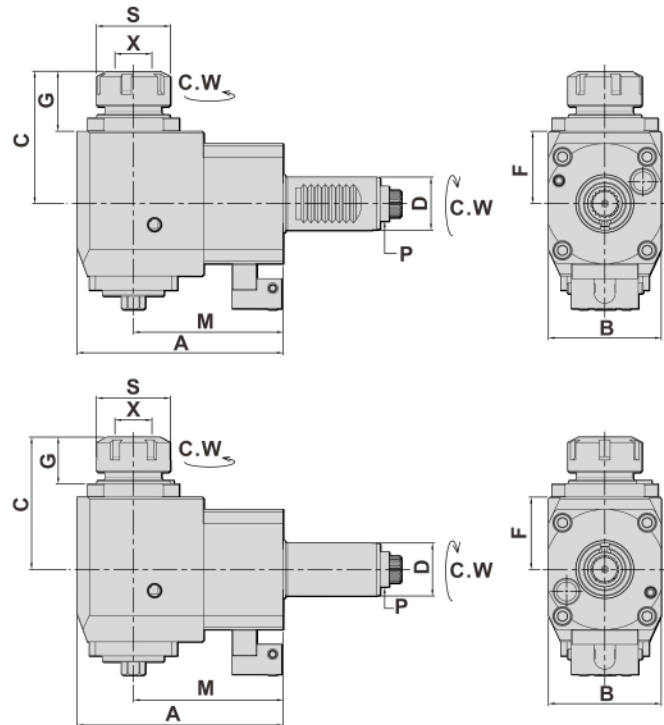
D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	E	F	G	M	P DIN 5480	Code No.	Order No.
20	1-10 ER16	30	3000	1:1	88	50	72.5	70	27	64.5	65	W11X0.8	220202-000	TBR2054801665
													220222-000	TBL2054801665
30	1-10 ER16	30	3000	1:1	95	60	44	75.5	31.5	32	72	W16X0.8	230205-000	TBR3054801672
													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
													240225-000	TBL4054802090

RADIAL DRILLING AND MILLING HEADS

徑向鑽銑刀座 (90°)

MODE : FL
LEFT-HAND

MODE : FR
RIGHT-HAND



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

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	F	G	M	P DIN 5480	Code No.	Order No.
40	2-20 ER32	50	5000	1:1	99	80	71	40	23	65	W20X0.8	240281-000	NFR4054803265
												2402101000	NFL4054803265
40	2-20 ER32	50	5000	1:1	119	80	71	40	23	85	W20X0.8	240288-000	NFR4054803285
												2402108000	NFL4054803285
40	2-20 ER32	50	5000	1:1	134	80	71	40	23	100	W20X0.8	240289-000	NFR40548032100
												2402109000	NFL40548032100
50	3-26 ER40	63	5000	1:1	115	88	102	56	35	75	W24X1.25	250288-000	NFR5054804075
												2502108000	NFL5054804075
50	3-26 ER40	63	5000	1:1	140	88	102	56	35	100	W24X1.25	250289-000	NFR50548040100
												2502109000	NFL50548040100
60	10-34 ER50	78	5000	1:1	156	104	139	73.5	56.5	106	W30X1.25	260281-000	NFR60548050106
												2602101000	NFL60548050106

RADIAL TAPPING HEADS

徑向彈性攻牙刀座 (90°)

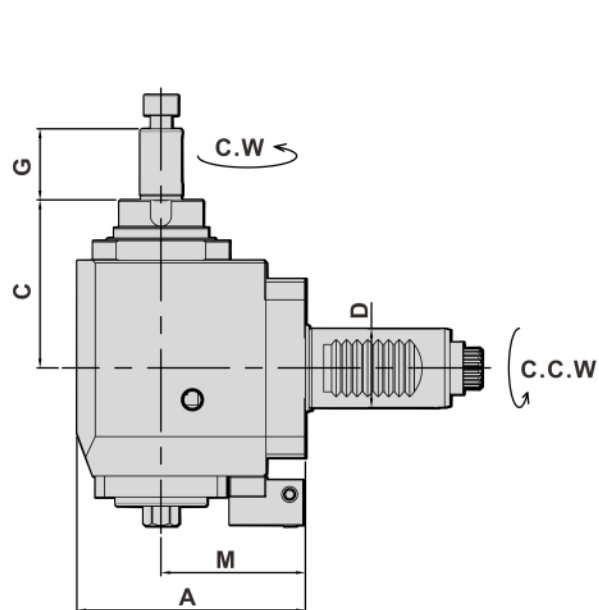
DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	F	G	M	P DIN 5480	Code No.	Order No.
40	1-13 ER20	35	3000	1:1	99	80	70	40	25	65	W20x0.8	240285-000	NTFR4054802065
												2402105000	NTFL4054802065
40	1-13 ER20	35	3000	1:1	119	80	70	40	25	85	W20x0.8	240290-000	NTFR4054802085
												2402110000	NTFL4054802085
40	1-13 ER20	35	3000	1:1	134	80	70	40	25	100	W20x0.8	240291-000	NTFR40548020100
												2402111000	NTFL40548020100
50	1-16 ER25	42	3000	1:1	140	100	118	56	51	100	W24x1.25	250251-000	NTFR50548025100
												250271-000	NTFL50548025100

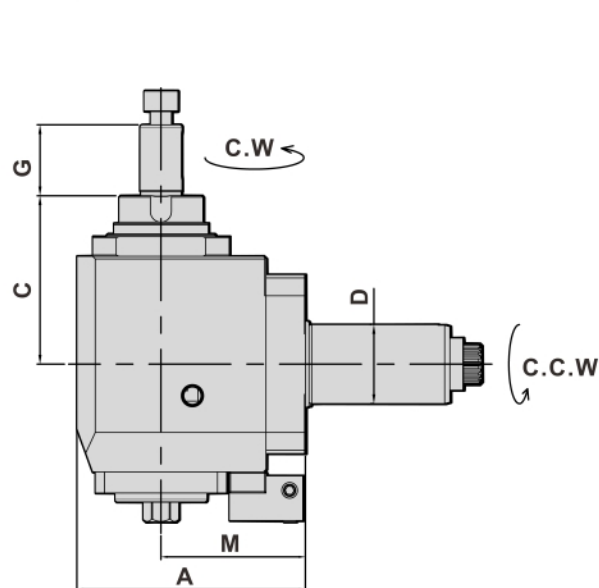
RADIAL DRILL AND MILLING HEADS

徑向銑削刀座 (90°)

MODE : FL
LEFT-HAND



MODE : FR
RIGHT-HAND



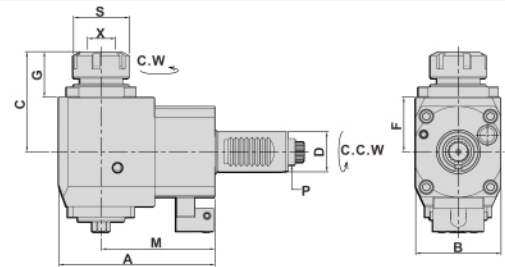
- To be used for collet DIN 6358
- External coolant and intermediate rings supply

DIMENSIONS

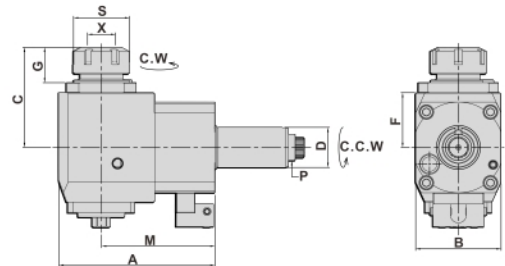
D DIN 69880	X DIN 6358	Maximum R.P.M	S	i	A	B	C	G	M	P DIN 5480	Code No.	Order No.
30	16	5000	32	1:1	87	64	64	27	55	W16X0.8	230244-000	FR30548016C55
											230264-000	FL30548016C55

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

MODE : FL
LEFT-HAND



MODE : FR
RIGHT-HAND



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

DIMENSIONS

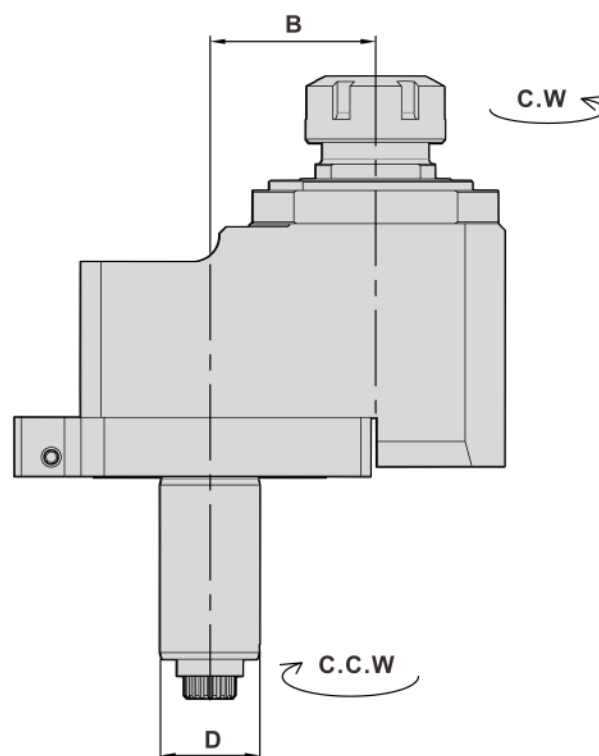
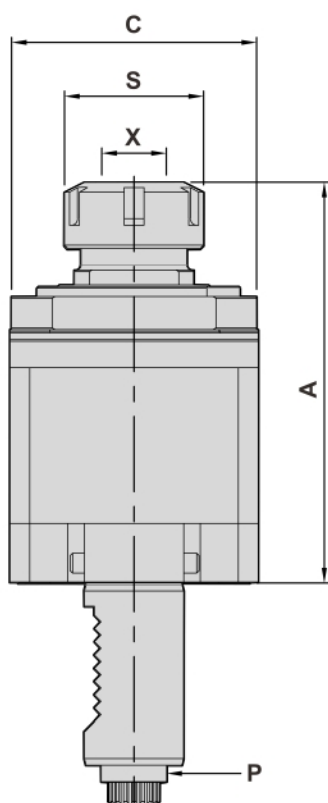
D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	F	G	M	P DIN 5480	Code No.	Order No.
20	1-10 ER16	30	5000	1:1	72	50	65	27	26.5	50	W11X0.8	220241-000	FR2054801650
												220261-000	FL2054801650
30	1-16 ER25	42	5000	1:1	97	64	74.5	41	26	55	W16X0.8	230241-000	FR3054802555
												230261-000	FL3054802555
30	1-16 ER25	42	5000	1:1	117	64	74.5	41	26	85	W16X0.8	230248-000	FR3054802585
												230268-000	FL3054802585
30	1-16 ER25	42	5000	1:1	127	64	74.5	41	26	100	W16X0.8	230249-000	FR30548025100
												230269-000	FL30548025100
40	2-20 ER32	50	5000	1:1	99	80	71	40	23	65	W20X0.8	240241-000	FR4054803265
												240261-000	FL4054803265
40	2-20 ER32	50	5000	1:1	119	80	71	40	23	85	W20X0.8	240248-000	FR4054803285
												240268-000	FL4054803285
40	2-20 ER32	50	5000	1:1	134	80	71	40	23	100	W20X0.8	240249-000	FR40548032100
												240269-000	FL40548032100

RADIAL TAPPING HEADS 徑向彈性攻牙刀座 (90°)

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	F	G	M	P DIN 5480	Code No.	Order No.
30	1-10 ER16	30	3000	1:1	97	64	75	41	30	55	W16X0.8	230245-000	TFR3054801655
												230265-000	TFL3054801655
30	1-10 ER16	30	3000	1:1	117	64	75	41	30	85	W16X0.8	230250-000	TFR3054801685
												230270-000	TFL3054801685
30	1-10 ER16	30	3000	1:1	127	64	75	41	30	100	W16X0.8	230251-000	TFR30548016100
												230271-000	TFL30548016100
40	1-13 ER20	35	3000	1:1	99	80	70	40	25	65	W20X0.8	240245-000	TFR4054802065
												240265-000	TFL4054802065
40	1-13 ER20	35	3000	1:1	119	80	70	40	25	85	W20X0.8	240250-000	TFR4054802085
												240270-000	TFL4054802085
40	1-13 ER20	35	3000	1:1	134	80	72	40	25	100	W20X0.8	240251-000	TFR40548020100
												240271-000	TFL40548020100

AXIAL DRILLING AND MILLING HEADS OFFSET - 軸向偏心鑽銑刀座 (0°)



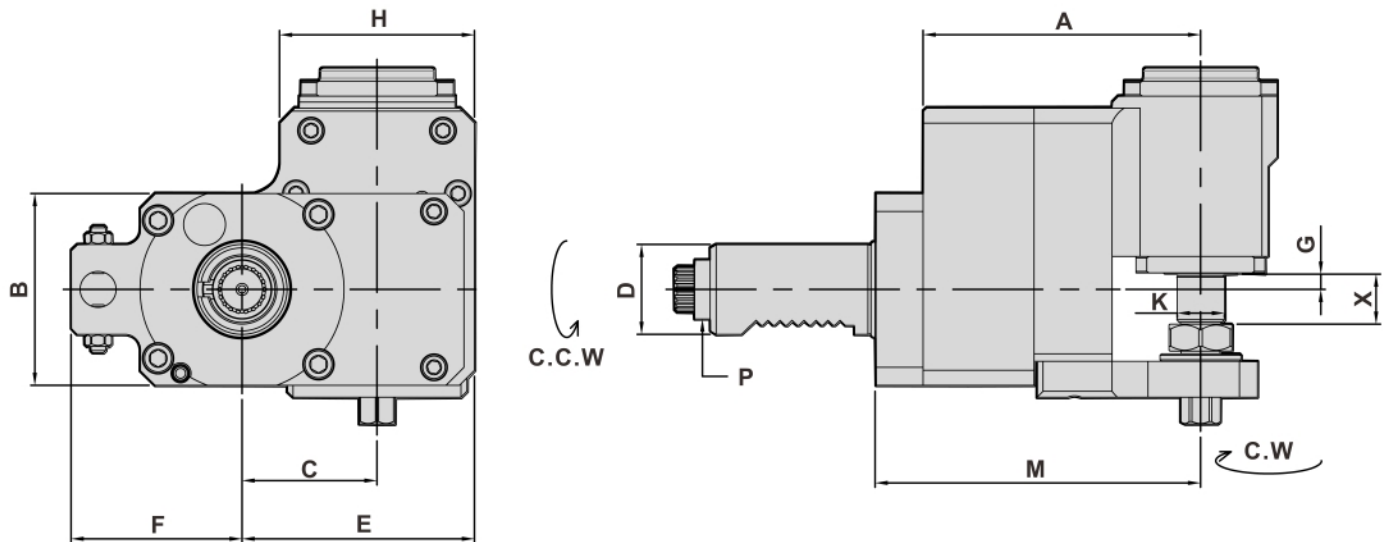
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	P DIN 5480	Code No.	Order No.
30	1-16 ER25	42	4000	1:1	100	29	60	W16x0.8	130208-000	DA3054802529
*30	1-16 ER25	42	8000	1:2	100	29	60	W16x0.8	130211-000	DA3054802529/1
30	1-16 ER25	42	4000	1:1	100	50	75	W16x0.8	130209-000	DA3054802550
*30	1-16 ER25	42	8000	1:2	106	50	75	W16X0.8	130212-000	DA3054802550/1
40	2-20 ER32	50	4000	1:1	125	50	75	W20x0.8	140208-000	DA4054803250
50	3-26 ER40	63	4000	1:1	123	65	86	W24x1.25	150209-000	DA5054804065

*2倍增速

RADIAL DRILLING AND MILLING HEADS 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.
30	16	3000	3:1	133	64	45	77.5	49	5	65	16	108.5	W16x0.8	230207-000	BR30548016C/3
														230227-000	BL30548016C/3
30	16	3000	3:1	133	64	45	77.5	49	5	65	25.4	108.5	W16x0.8	230209-000	BR30548025.4C/3
														230229-000	BL30548025.4C/3
40	16	3000	3:1	136	70	45	77.5	75	5	65	16	110.5	W20x0.8	240207-000	BR40548016C/3
														240227-000	BL40548016C/3
40	16	3000	3:1	136	70	45	77.5	75	5	65	25.4	110.5	W20x0.8	240209-000	BR40548025.4C/3
														240229-000	BL40548025.4C/3

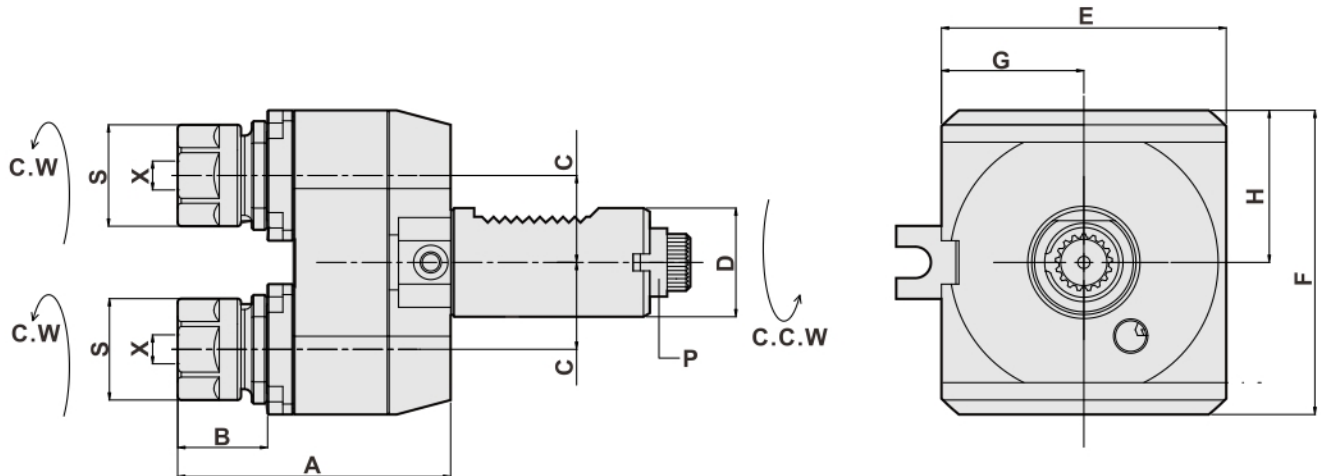
* i = 3倍減速

Other shank dimensions under development

AXIAL DRILLING AND MILLING HEADS

DOUBLE COLLETS, Y OFFSET

軸向鑽銑刀座--雙頭Y軸偏心 (0°)



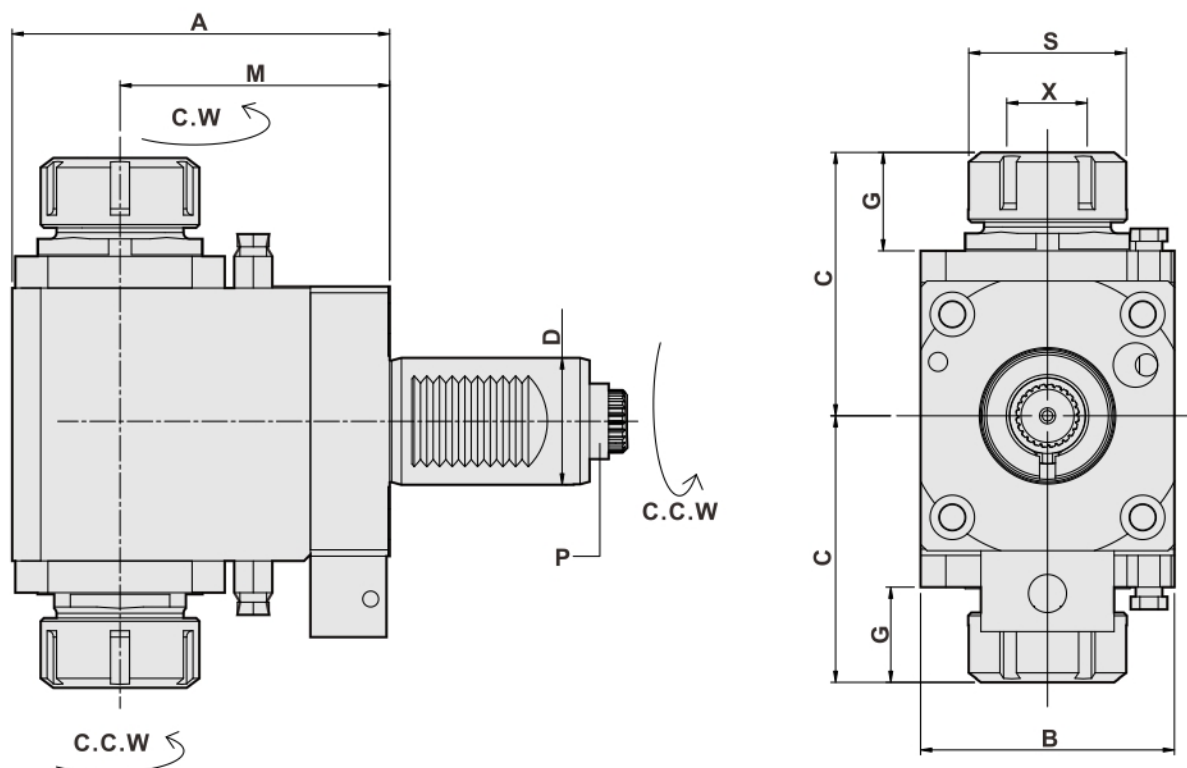
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

DIMENSIONS

D DIN 69880	X Capacity	Maximum R.P.M	S	A	B	C	E	F	G	H	P DIN 5480	Code No.	Order No.
30	1-10 ER16	4000	30	83	24.5	24	80	95	40	48	W16x0.8	130217-000	DA30548016DY
40	1-13 ER20	4000	35	98	28.5	29	80	104	40	52	W20x0.8	140217-000	DA40548020DY

RADIAL DRILLING AND MILLING HEADS DOUBLE HEADS

徑向雙頭鑽銑刀座 (90°)



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

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	G	M	P DIN 5480	Code No.	Order No.
30	1-16 ER25	42	4000	1:1	112	64	66	26.5	85	W16x0.8	230275-000	DF3054802585D
30	1-16 ER25	42	4000	1:1	127	64	66	26.5	100	W16x0.8	230276-000	DF30548025100D
40	2-20 ER32	50	4000	1:1	119	80	82	28	85	W20x0.8	240275-000	DF4054803285D
40	2-20 ER32	50	4000	1:1	134	80	82	28	100	W20x0.8	240276-000	DF40548032100D
40	2-20 ER32	50	4000	1:1	154	80	84	30	120	W20x0.8	240278-000	DF40548032120D

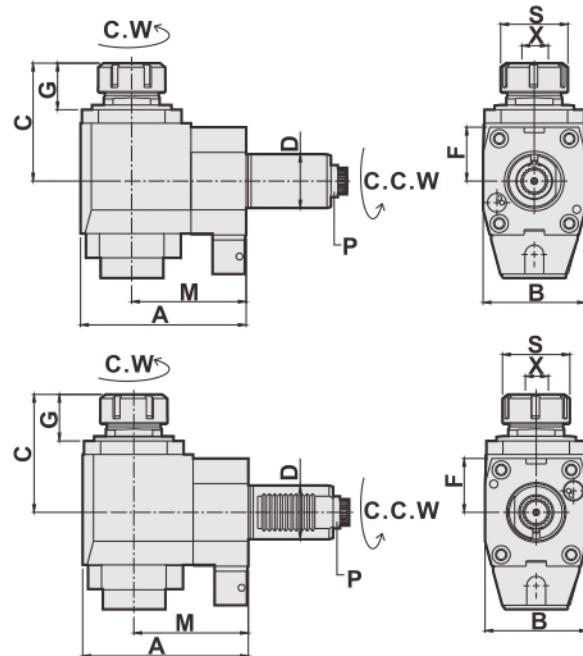
Other shank dimensions under development

RADIAL DRILLING AND MILLING HEADS

徑向鑽銑刀座(90°)

MODE : FR
RIGHT-HAND

MODE : FL
LEFT-HAND



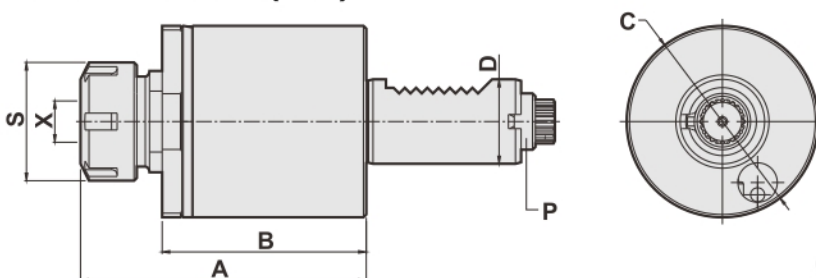
- To be used for collet DIN 6499
- Internal coolant supply 中心出水
- External coolant supply
- Collet is not included

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	F	G	M	P DIN 5480	Code No.	Order No.
40	2-20 ER32	50	5000	1:1	103	76	89.5	40	36.5	65	W20x0.8	240241-000 240261-000	CWFR4054803265 CWFL4054803265
40	2-20 ER32	50	5000	1:1	123	76	89.5	40	36.5	85	W20x0.8	240254-000 240274-000	CWFR4054803285 CWFL4054803285
40	2-20 ER32	50	5000	1:1	138	76	89.5	40	36.5	100	W20x0.8	240249-000 240269-000	CWFR40548032100 CWFL40548032100

AXIAL MILLING AND DRILLING HEADS

軸向鑽銑刀座(0°)



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

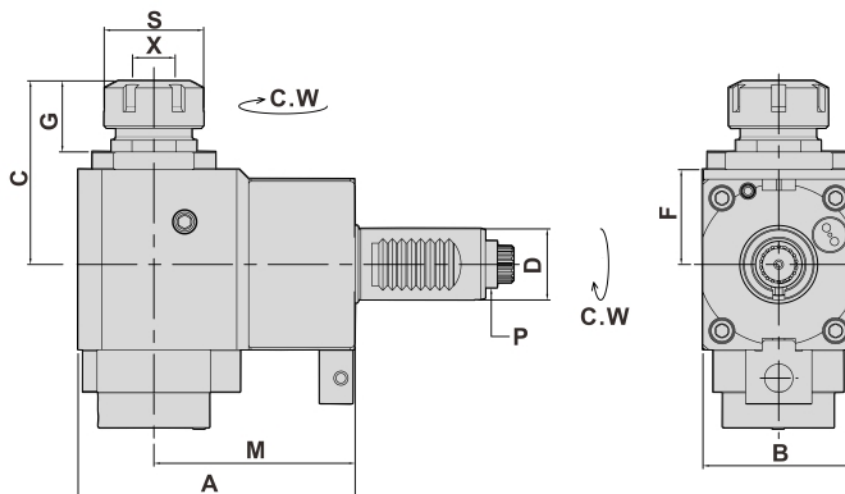
DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	P DIN 5480	Code No.	Order No.
20	1-10 ER16	30	5000	1:1	88.5	61	58	W11x0.8	120207-000	CWDA20548016
30	1-16 ER25	42	5000	1:1	102	72	68	W16x0.8	130207-000	CWDA30548025

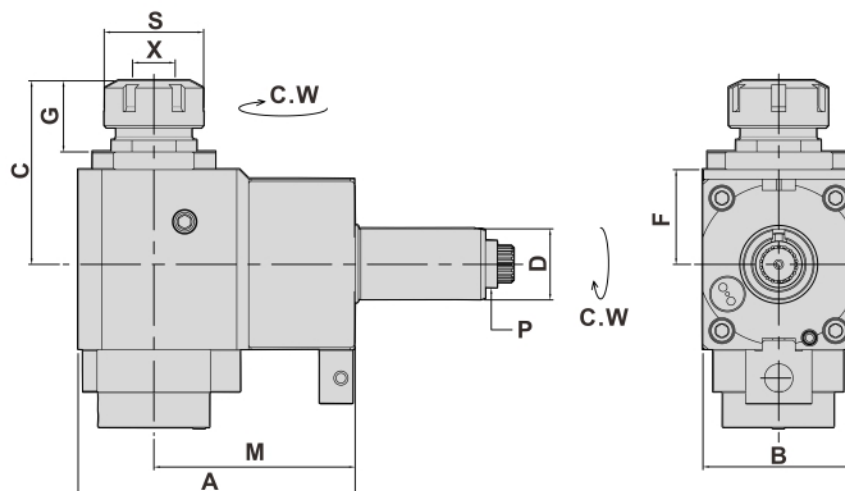
RADIAL MILLING AND DRILLING HEADS - FORWARD

徑向鑽銑刀座(90°)

MODE : FL
LEFT-HAND



MODE : FR
RIGHT-HAND



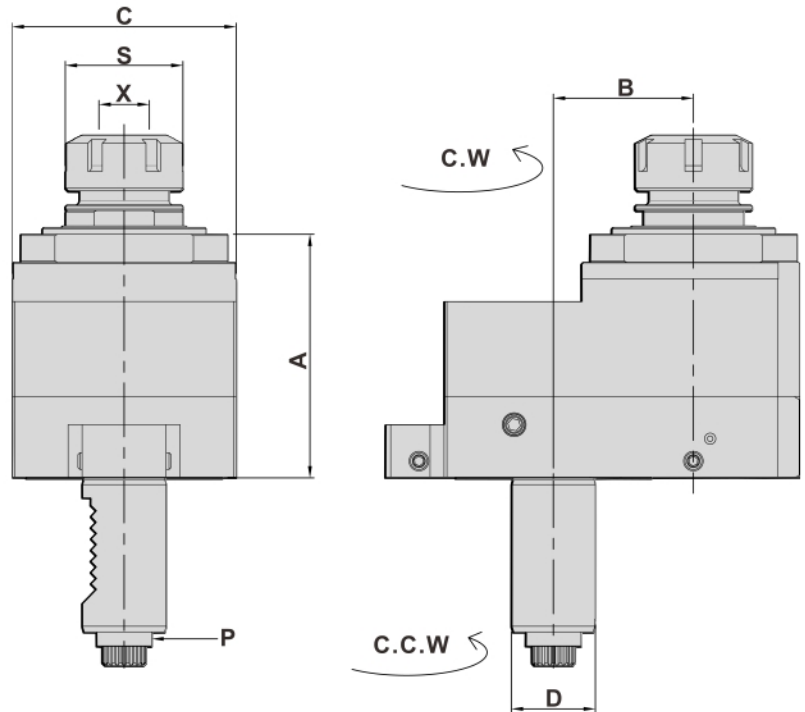
- To be used for collet DIN 6499
- Internal coolant supply 中心出水
- External coolant supply
- Collet is not included

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	F	G	M	P DIN 5480	Code No.	Order No.
30	1-16 ER25	42	4000	1:1	87	64	77.5	36	30	55	W16x0.8	230286-000	CWNFR3054802555
												2302112000	CWNFL3054802555
30	1-16 ER25	42	4000	1:1	117	64	77.5	36	30	85	W16x0.8	230294-000	CWNFR3054802585
												2302113000	CWNFL3054802585
30	1-16 ER25	42	4000	1:1	132	64	77.5	36	30	100	W16x0.8	230295-000	CWNFR30548025100
												2302114000	CWNFL30548025100

AXIAL DRILLING AND MILLING HEADS OFFSET

軸向偏心鑽銑刀座(90°)



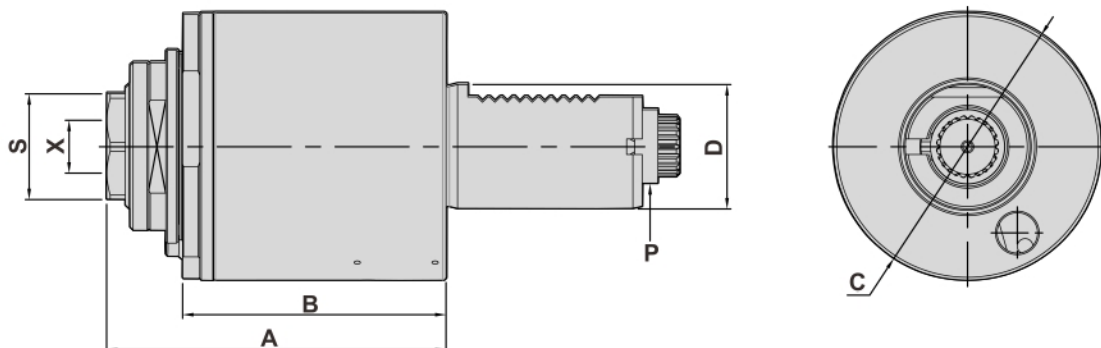
- To be used for collet DIN 6499
- Internal coolant supply 中心出水
- External coolant supply
- Collet is not included

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	Code No.	Order No.
30	1-16 ER25	42	4000	1:1	122.5	50	80	130214-000	CWDA3054802550

AXIAL DRILLING AND MILLING HEADS

軸向鑽銑刀座(0°)



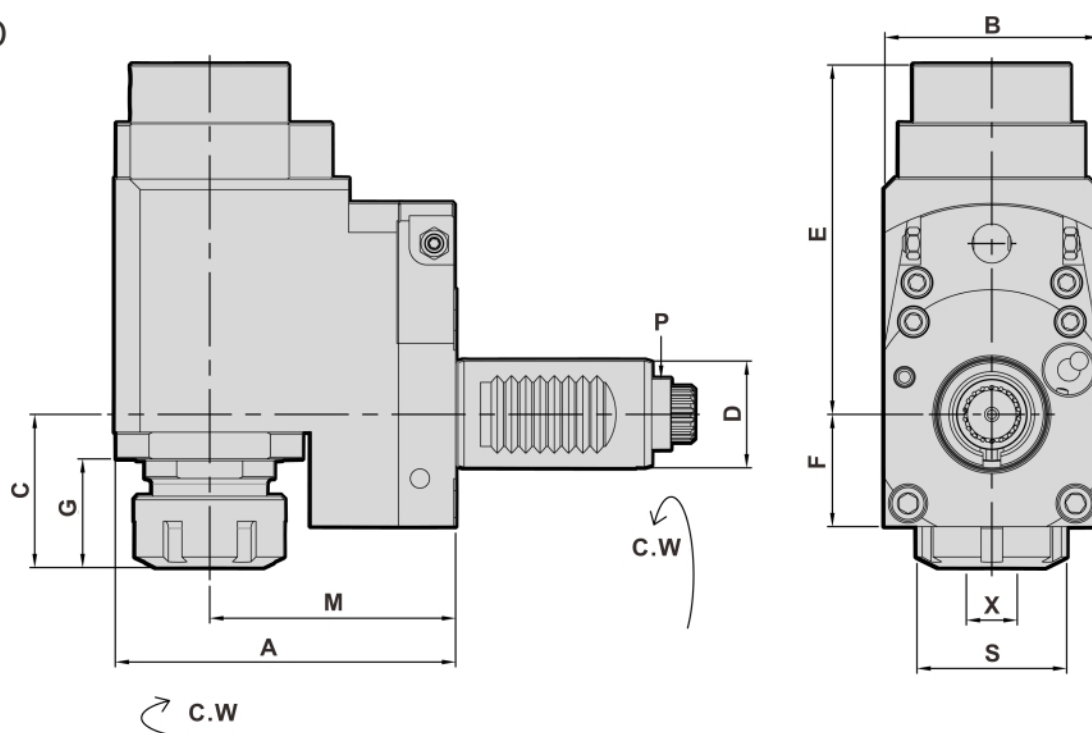
- To be used for collet DIN 6499
- Internal coolant supply 中心出水
- External coolant supply
- Collet is not included

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	Code No.	Order No.
40	2-20 ER32	38	6000	1:1	109	85	86	140220-000	CWDA405480ER32A

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

MODE : BR
RIGHT-HAND



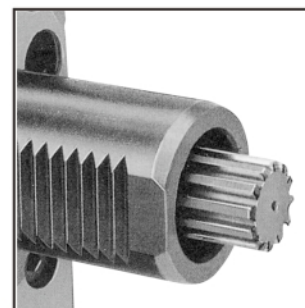
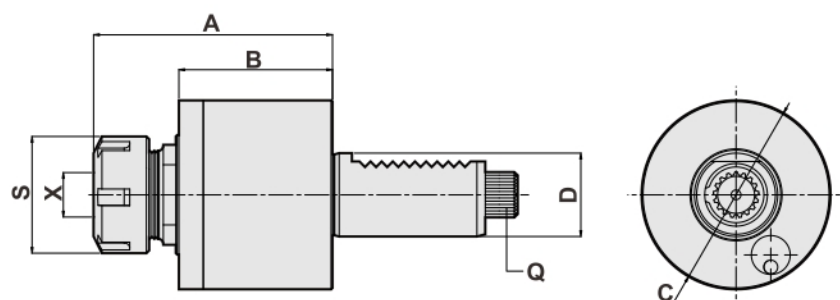
- To be used for collet DIN 6499
- Internal coolant supply 中心出水
- External coolant supply
- Collet is not included

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	E	F	G	M	P DIN 5480	Code No.	Order No.
30	1-16 ER25	42	5000	1:1	96	60	43	98	31.5	30.5	72	W16x0.8	230206-000	CWBR3054802572

AXIAL DRILLING AND MILLING HEADS

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.
30	1-16	ER25	42	6000	1:1	101	70	68	B15x12	130301-000	DA30548225
40	1-16	ER25	42	6000	1:1	108.5	73.5	86	B17x14	140327-000	DA40548225
40	2-20	ER32	50	6000	1:1	110	73.5	86	B17x14	140301-000	DA40548232
50	3-26	ER40	63	6000	1:1	120	81.5	96	B20x17	150301-000	DA50548240
60	10-34	ER50	78	6000	1:1	140	88.5	116	B25x22	160301-000	DA60548250

AXIAL TAPPING HEADS

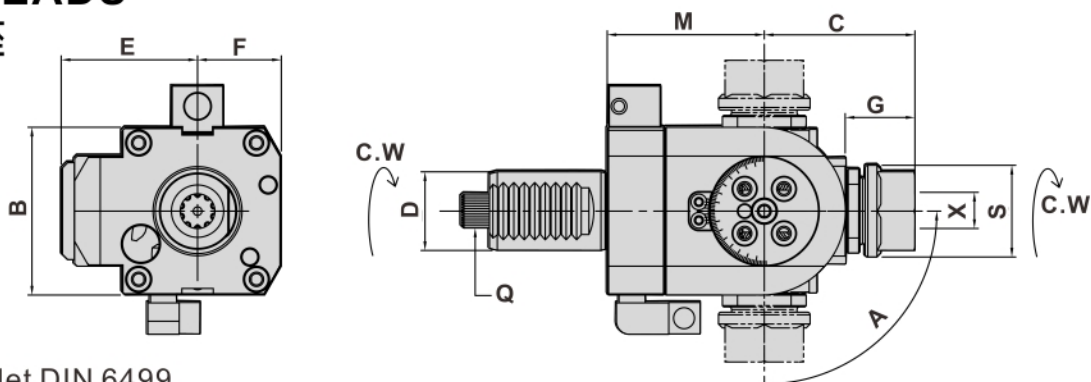
軸向彈性攻牙刀座 (0°)

DIMENSIONS

D DIN 69880	X Capacity		S	Maximum R.P.M	i	A	B	C	Q DIN 5482	Code No.	Order No.
30	1~10	ER16	30	3000	1:1	108	71.5	68	B15x12	130316-000	TDA30548216
40	1~13	ER20	35	3000	1:1	95.5	55	86	B17x14	140322-000	TDAC40548220
50	1~16	ER25	42	3000	1:1	123	81.5	96	B20x17	150316-000	TDA50548225
60	2~20	ER32	50	3000	1:1	158.5	88.5	116	B25x22	160316-000	TDA60548232

ANGULAR HEADS

萬向鑽銑刀座



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

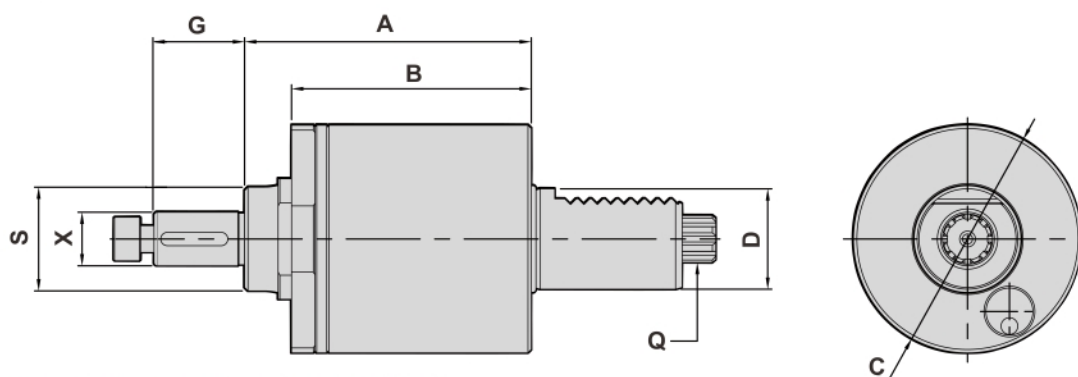
DIMENSIONS

Other shank dimensions under development

D DIN 69880	X Capacity	Maximum R.P.M	S	A	B	C	E	F	G	M	Q DIN 5482	Code No.	Order No.
30	1~13 ER20	4000	35	±90°	64	59	54	32	27	67	B15x12	130315-000	DA30548220B
40	1~16 ER25	4000	42	±90°	76	65	65	38	29	70	B17x14	140315-000	DA40548225B

AXIAL MILLING AND DRILLING HEADS

軸向鑽銑刀座 (0°)



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

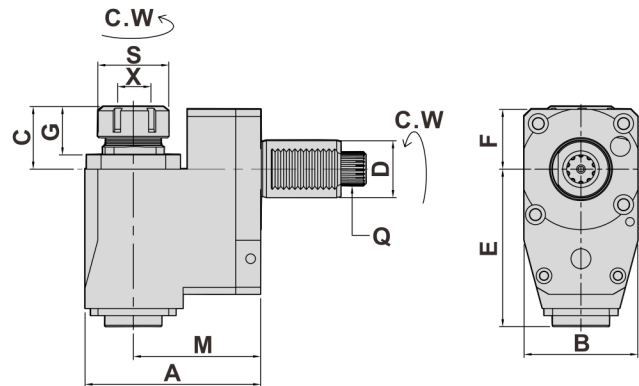
DIMENSIONS

D DIN 69880	X Capacity	Maximum R.P.M	S	A	B	C	G	Q DIN 5482	Code No.	Order No.
30	16	3000	32	91.5	70	68	27	B15x12	130306-000	DA30548216C
40	16	3000	32	68.5	55	86	27	B17x14	140305-000	DA40548216C
40	22	3000	32	68.5	55	86	31	B17x14	140306-000	DA40548222C
50	22	3000	40	117	81.5	96	31	B20x17	150305-000	DA50548222C
50	27	3000	40	117	88.5	96	33	B20x17	150306-000	DA50548227C

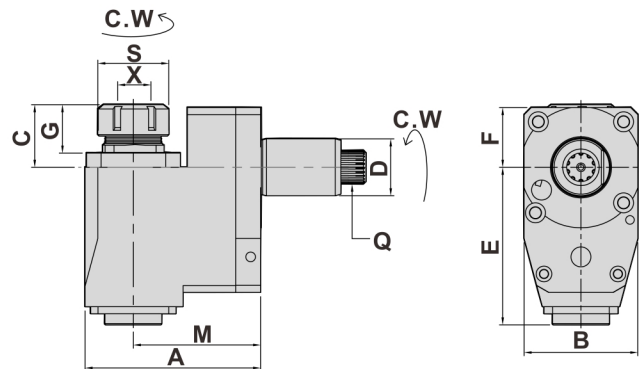
RADIAL DRILLING AND MILLING HEADS OFFSET

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.
30	1-16	42	5000	1:1	95	60	42	75.5	31.5	28.5	72	B15x12	230301-000	BR3054822572
	ER25												230321-000	BL3054822572
40	2-20	50	5000	1:1	124	80	44	110	42	34	90	B17x14	240301-000	BR4054823290
	ER32												240321-000	BL4054823290
50	3-26	63	5000	1:1	129	86	49	112	45	39	90	B20x17	250301-000	BR5054824090
	ER40												250321-000	BL5054824090
60	10-34	78	5000	1:1	147	104	83	118	54	42	106	B25x22	260301-000	BR60548250106
	ER50												260321-000	BL60548250106

RADIAL TAPPING HEADS

徑向彈性攻牙刀座-後縮型 (90°)

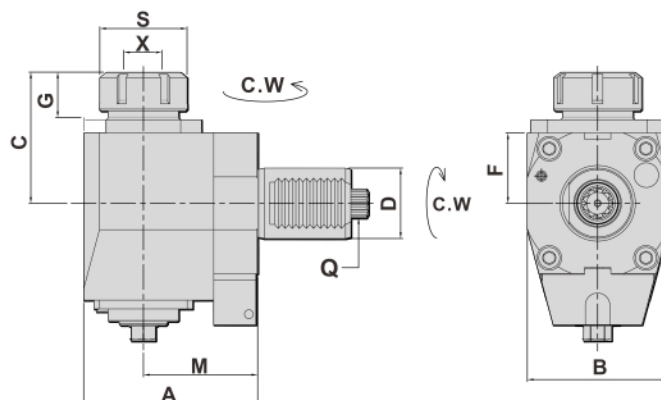
DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	E	F	G	M	Q DIN 5482	Code No.	Order No.
30	1-10	30	3000	1:1	95	60	44	75.5	31.5	32	72	B15x12	230305-000	TBR3054821672
	ER16												230325-000	TBL3054821672
40	1-13	35	3000	1:1	124	80	50	110	42	34	90	B17x14	240305-000	TBR4054822090
	ER20												240325-000	TBL4054822090
50	2-16	42	3000	1:1	129	86	54	112	45	36	90	B20x17	250305-000	TBR5054822590
	ER25												250325-000	TBL5054822590
60	2-20	50	3000	1:1	147	104	87	118	54	40	106	B25x22	260305-000	TBR60548232106
	ER32												260325-000	TBL60548232106

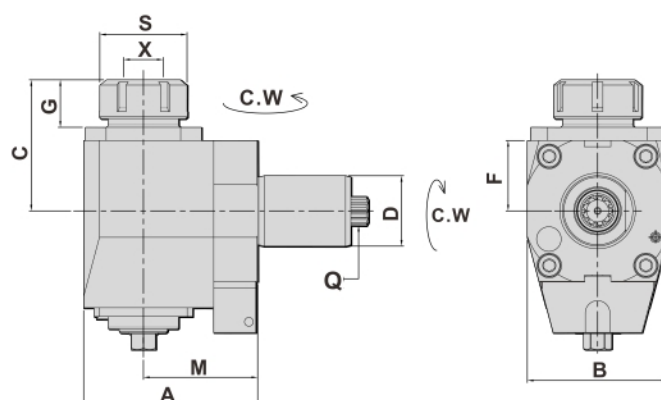
RADIAL DRILLING AND MILLING HEADS

徑向鑽銑刀座 (90°)

MODE : FL
LEFT-HAND



MODE : FR
RIGHT-HAND



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

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	F	G	M	Q DIN 5482	Code No.	Order No.
40	2-20 ER32	50	5000	1:1	99	80	71	40	23	65	B17x14	240381-000	NFR4054823265
												2403101000	NFL4054823265
40	2-20 ER32	50	5000	1:1	119	80	71	40	23	85	B17x14	240388-000	NFR4054823285
												2403108000	NFL4054823285
50	3-26 ER40	63	5000	1:1	115	88	103	56	40	75	B20x17	250388-000	NFR5054824075
												2503108000	NFL5054824075
60	2-20 ER50	78	5000	1:1	156	104	139	58	56.5	106	B25x22	260381-000	NFR60548250106
												2603101000	NFL60548250106

RADIAL TAPPING HEADS

徑向彈性攻牙刀座 (90°)

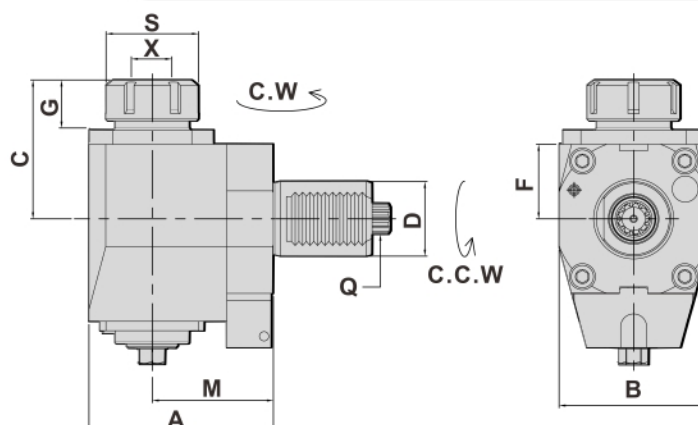
DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	F	G	M	Q DIN 5482	Code No.	Order No.
40	1-13 ER20	35	3000	1:1	99	80	70	40	25	65	B17x14	240385-000	NTFR4054822065
												2403105000	NTFL4054822065
40	1-13 ER20	35	3000	1:1	119	80	70	40	25	85	B17x14	240390-000	NTFR4054822085
												2403110000	NTFL4054822085
50	1-16 ER25	42	3000	1:1	115	88	103	56	42	75	B20x17	250385-000	NTFR5054822575
												2503105000	NTFL5054822575

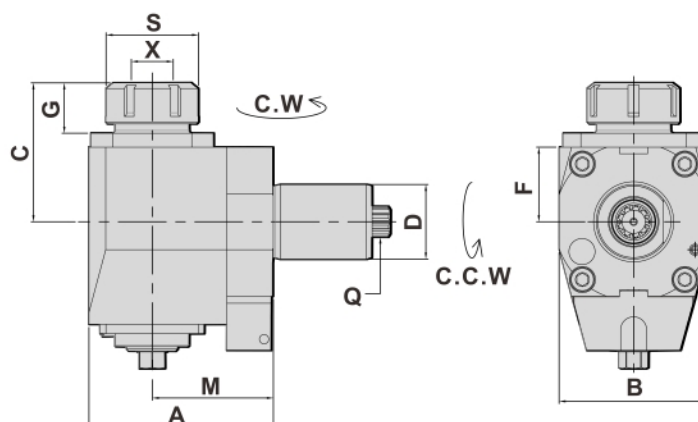
RADIAL DRILLING AND MILLING HEADS

徑向鑽銑刀座 (90°)

MODE : FL
LEFT-HAND



MODE : FR
RIGHT-HAND



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

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	F	G	M	Q DIN 5482	Code No.	Order No.
30	1-16 ER25	42	5000	1:1	97	64	74.5	41	26	65	B15x12	230341-000	FR3054822565
					117	64	74.5	41	26	85	B15x12	230361-000	FL3054822565
30	1-16 ER25	42	5000	1:1	97	64	74.5	41	26	65	B15x12	230348-000	FR3054822585
					117	64	74.5	41	26	85	B15x12	230368-000	FL3054822585
40	2-20 ER32	50	5000	1:1	99	80	71	40	23	65	B17x14	240341-000	FR4054823265
					119	80	71	40	23	85	B17x14	240361-000	FL4054823265
40	2-20 ER32	50	5000	1:1	99	80	71	40	23	65	B17x14	240348-000	FR4054823285
					119	80	71	40	23	85	B17x14	240368-000	FL4054823285

RADIAL TAPPING HEADS

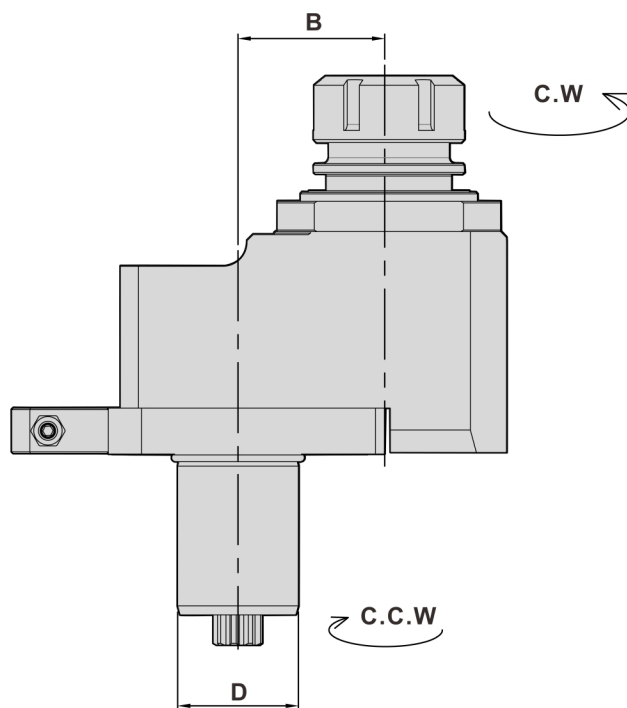
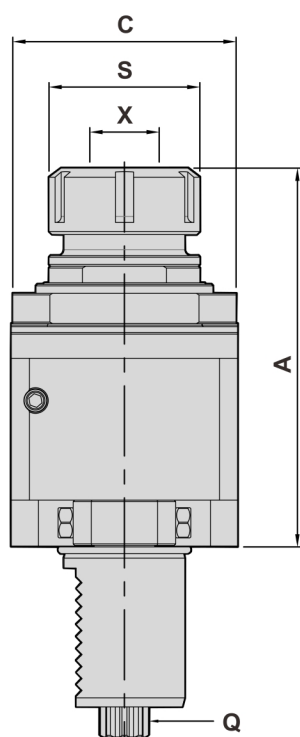
徑向彈性攻牙刀座 (90°)

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	F	G	M	Q DIN 5482	Code No.	Order No.
30	1-10 ER16	30	3000	1:1	97	64	75	41	30	65	B15x12	230345-000	TFR3054821665
					117	64	75	41	30	85	B15x12	230365-000	TFL3054821665
30	1-10 ER16	30	3000	1:1	97	64	75	41	30	65	B15x12	230350-000	TFR3054821685
					117	64	75	41	30	85	B15x12	230370-000	TFL3054821685
40	1-13 ER20	35	3000	1:1	99	80	71	40	25	65	B17x14	240345-000	TFR4054822065
					119	80	71	40	25	85	B17x14	240365-000	TFL4054822065
40	1-13 ER20	35	3000	1:1	99	80	71	40	25	65	B17x14	240350-000	TFR4054822085
					119	80	71	40	25	85	B17x14	240370-000	TFL4054822085

AXIAL DRILLING AND MILLING HEADS OFFSET

軸向偏心鑽銑刀座 (0°)



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

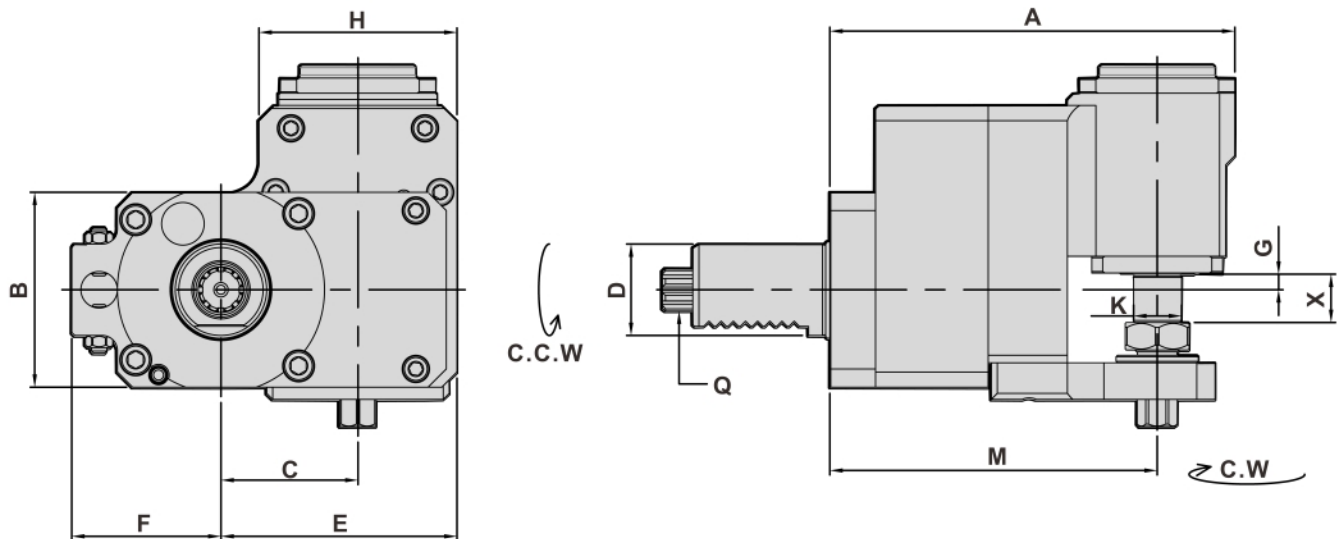
DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	Q DIN 5482	Code No.	Order No.
30	1-16 ER25	42	4000	1:1	100	29	60	B15X12	130308-000	DA3054822529
* 30	1-16 ER25	42	8000	1:2	100	29	60	B15X12	130311-000	DA3054822529/1
30	1-16 ER25	42	4000	1:1	121	50	75	B15X12	130309-000	DA3054822550
40	2-20 ER32	50	4000	1:1	125	50	75	B17X14	140308-000	DA4054823250
50	3-26 ER40	63	3000	1:1	124	65	86	B20X17	150309-000	DA5054824065
60	10-34 ER50	78	3000	1:1	168	65	104	B25X22	160308-000	DA6054825065
60	10-34 ER50	78	3000	1:1	173.5	80	104	B25X22	160309-000	DA6054825080

* 2倍增速

RADIAL MILLING HEADS - 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	D DIN 5782	Code No.	Order No.
30	16	3000	3:1	133	64	45	77.5	49	5	65	16	107.5	B15x12	230307-000	BR30548216C/3
														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
														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
														240327-000	BL40548216C/3
40	16	3000	3:1	136	70	45	77.5	75	5	65	25.4	110.5	B17x14	240309-000	BR40548225.4C/3
														240329-000	BL40548225.4C/3

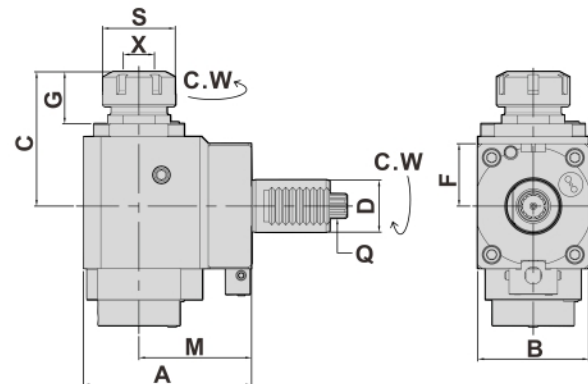
* i = 3倍減速

Other shank dimensions under development

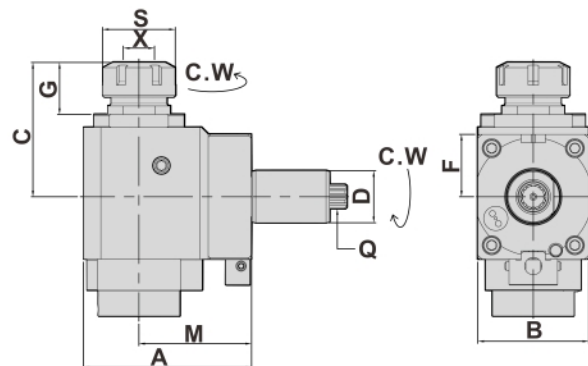
RADIAL MILLING AND DRILLING HEADS FORWARD

徑向鑽銑刀座 (90°)

MODE : FL
LEFT-HAND



MODE : FR
RIGHT-HAND



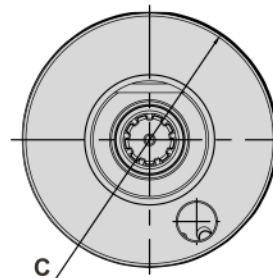
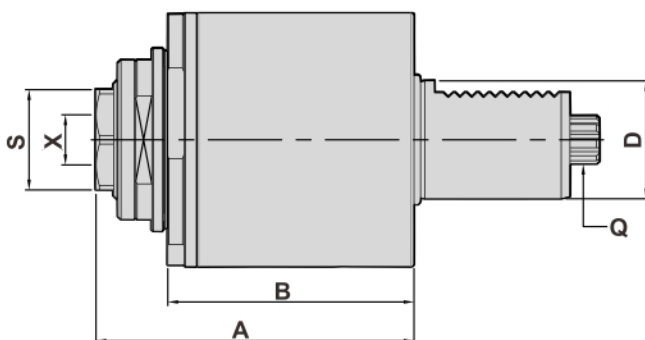
- To be used for collet DIN 6499
- Internal coolant supply 中心出水
- External coolant supply
- Collet is not included

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	F	G	M	Q DIN 5482	Code No.	Order No.
30	1-16 ER25	42	5000	1:1	97	64	77.5	36	30	65	B15x12	230386-000 2303106000	CWNFR3054822565 CWNFL3054822565

AXIAL MILLING AND DRILLING HEADS

軸向鑽銑刀座 (0°)



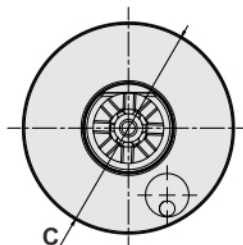
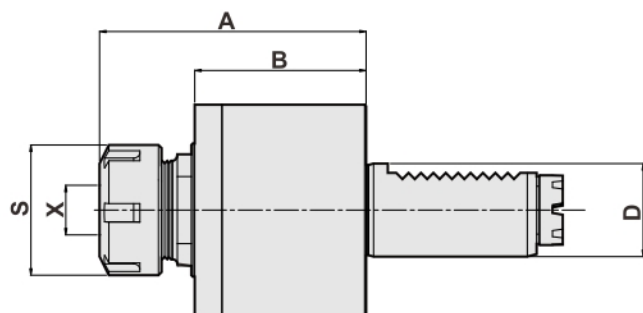
- To be used for collet DIN 6499
- Internal coolant supply 中心出水
- External coolant supply
- Collet is not included

DIMENSIONS

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

AXIAL DRILLING AND MILLING HEADS

軸向鑽銑刀座 (0°)



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

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.
20	1-10	ER16	30	6000	1 : 1	76	48	58	120401-000	DA20MT16
30	1-16	ER25	42	6000	1 : 1	86	55	68	130401-000	DA30MT25
40	2-20	ER32	50	6000	1 : 1	92.5	55	86	140402-000	DAC40MT32
40	2-20	ER32	50	6000	1 : 1	89	55	86	140401-000	DA40MT32
50	3-26	ER40	63	6000	1 : 1	118	81.5	96	150401-000	DA50MT40
60	10-34	ER50	78	6000	1 : 1	140	88.5	116	160401-000	DA60MT50

AXIAL TAPPING HEADS

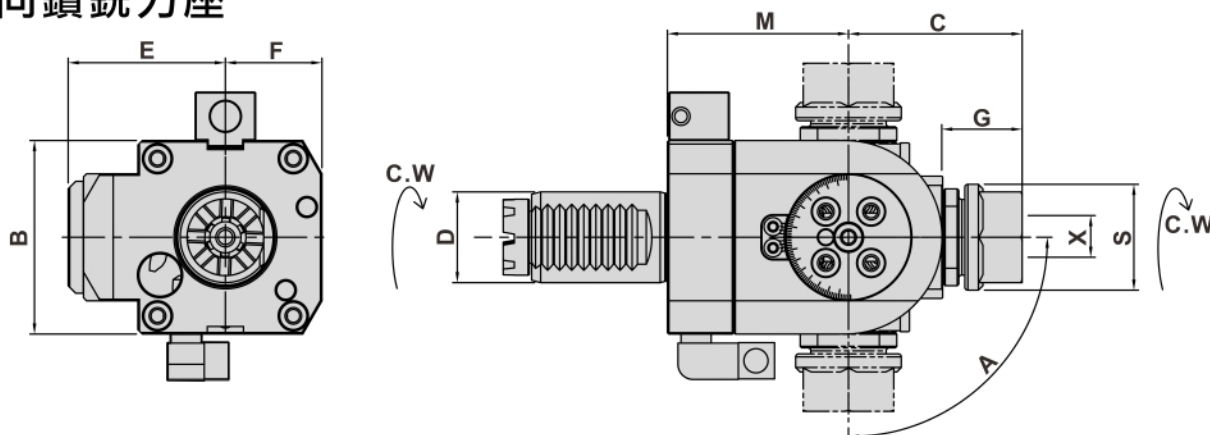
軸向彈性攻牙刀座 (0°)

DIMENSIONS

D DIN 69880	X Capacity		S	Maximum R.P.M	i	A	B	C	Code No.	Order No.
30	1-10	ER16	30	3000	1 : 1	108	71.5	68	130416-000	TDA30MT16
40	1-13	ER20	35	3000	1 : 1	95.5	55	86	140422-000	TDAC40MT20
50	1-16	ER25	42	3000	1 : 1	123	81.5	96	150416-000	TDA50MT25
60	2-20	ER32	50	3000	1 : 1	158.5	88.5	116	160416-000	TDA60MT32

ANGULAR HEADS

萬向鑽銑刀座



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

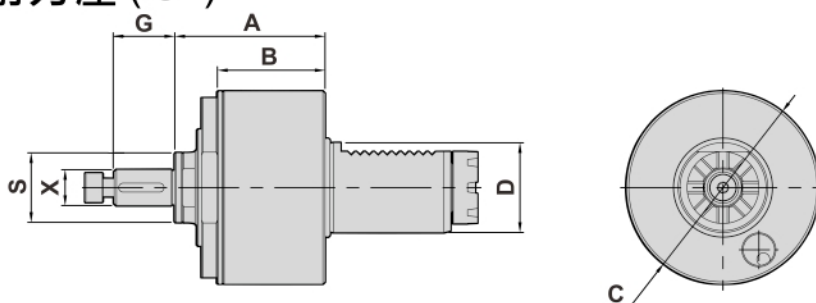
Other shank dimensions under development

DIMENSIONS

D DIN 69880	X Capacity	Maximum R.P.M	S	A	B	C	E	F	G	M	Code No.	Order No.
30	1~13 ER20	4000	35	±90°	64	59	54	32	27	67	130415-000	DA30MT20B
40	1~16 ER25	4000	42	±90°	76	65	65	38	29	70	140415-000	DA40MT25B

AXIAL DRILLING AND MILLING HEADS

軸向銑削刀座 (0°)



DIMENSIONS

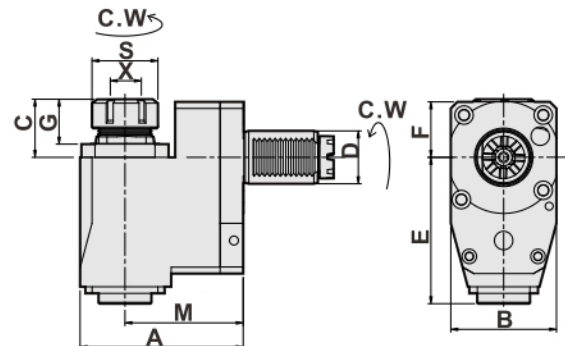
- To be used for cutter arbor according to DIN 6358
- External coolant and intermediate rings supply.

D DIN 69880	X DIN 6358	Maximum R.P.M	S	A	B	C	G	Code No.	Order No.
30	16	3000	32	91.5	55	68	27	130405-000	DA30MT16C
40	16	3000	32	68.5	55	86	27	140405-000	DA40MT16C
40	22	3000	32	68.5	55	86	31	140406-000	DA40MT22C
* 40	30	3000	58	94	73.5	86	24	140421-000	DA40MT30C
50	22	3000	40	117	81.5	96	31	150405-000	DA50MT22C
50	27	3000	40	117	81.5	96	33	150406-000	DA50MT27C

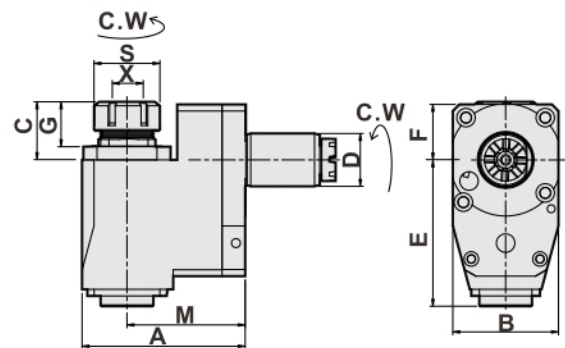
* 特殊

RADIAL DRILLING AND MILLING HEADS 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.
20	1-10 ER16	30	5000	1:1	83	50	35	70	27	27	60	220401-000	BR20MT1660
												220421-000	BL20MT1660
30	1-16 ER25	42	5000	1:1	95	60	42	76	32	29	72	230401-000	BR30MT2572
												230421-000	BL30MT2572
40	2-20 ER32	50	5000	1:1	124	80	44	110	42	34	90	240401-000	BR40MT3290
												240421-000	BL40MT3290
50	3-26 ER40	63	5000	1:1	129	86	49	112	45	39	90	250401-000	BR50MT4090
												250421-000	BL50MT4090
60	10-34 ER50	78	5000	1:1	147	104	83	118	54	50	106	260401-000	BR60MT50106
												260421-000	BL60MT50106
60	10-34 ER50	78	5000	1:1	183	104	73.5	123	54	51	135	260428-000	BL60MT50135

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

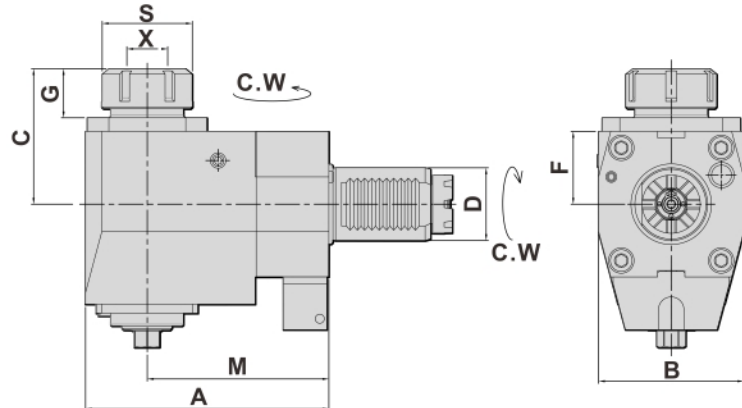
DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	E	F	G	M	Code No.	Order No.
30	1-10 ER16	30	3000	1:1	95	60	44	76	32	32	72	230405-000	TBR30MT1672
												230425-000	TBL30MT1672
40	1-13 ER20	35	3000	1:1	124	80	50	110	42	34	90	240405-000	TBR40MT2090
												240425-000	TBL40MT2090
50	2-16 ER25	42	3000	1:1	129	86	54	112	45	36	90	250405-000	TBR50MT2590
												250425-000	TBL50MT2590
60	2-20 ER32	50	3000	1:1	147	104	83	118	54	56	106	260405-000	TBR60MT32106
												260425-000	TBL60MT32106

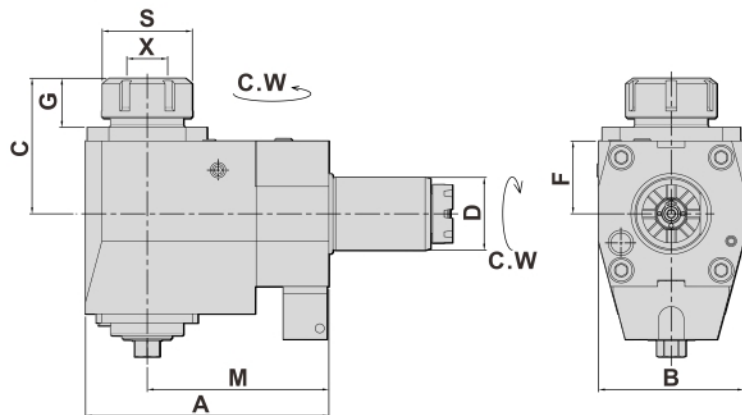
RADIAL DRILLING AND MILLING HEADS

徑向鑽銑刀座 (90°)

MODE : FL
LEFT-HAND



MODE : FR
RIGHT-HAND



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

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	F	G	M	Code No.	Order No.
40	2-20 ER32	50	5000	1:1	99	80	71	40	23	65	240481-000	NFR40MT3265
											2404101000	NFL40MT3265
40	2-20 ER32	50	5000	1:1	119	80	71	40	23	85	240488-000	NFR40MT3285
											2404108000	NFL40MT3285
40	2-20 ER32	50	5000	1:1	134	80	71	40	23	100	240489-000	NFR40MT32100
											2404109000	NFL40MT32100
50	3-26 ER40	63	5000	1:1	115	88	103	56	40	75	250488-000	NFR50MT4075
											2504108000	NFL50MT4075
60	10-34 ER50	78	5000	1:1	156	104	139	58	56.5	106	260481-000	NFR60MT50106
											2604101000	NFL60MT50106

RADIAL TAPPING HEADS

徑向彈性攻牙刀座 (90°)

DIMENSIONS

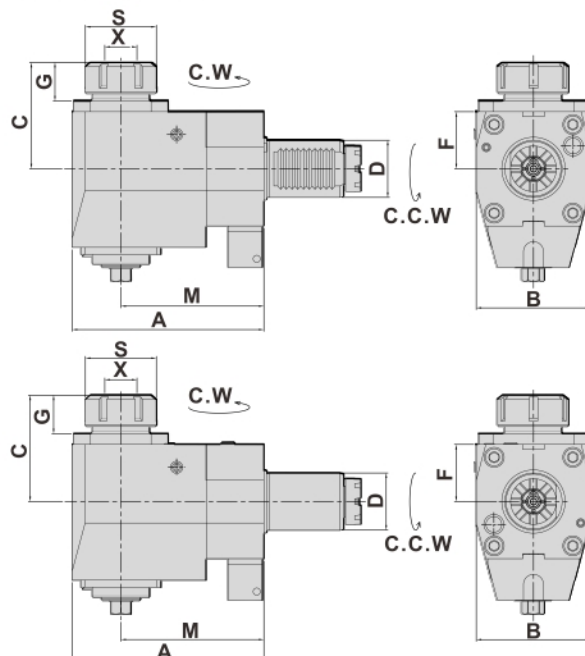
D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	F	G	M	Code No.	Order No.
40	1-13 ER20	35	3000	1:1	99	80	70	40	25	65	240485-000	NTFR40MT2065
											2404105000	NTFL40MT2065
40	1-13 ER20	35	3000	1:1	119	80	70	40	25	85	240490-000	NTFR40MT2085
											2404110000	NTFL40MT2085
50	1-16 ER25	42	3000	1:1	115	88	103	56	42	75	250490-000	NTFR50MT2575
											2504110000	NTFL50MT2575

RADIAL DRILLING AND MILLING HEADS

徑向鑽銑刀座 (90°)

MODE : FL
LEFT-HAND

MODE : FR
RIGHT-HAND



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

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	F	G	M	Code No.	Order No.
20	1-10 ER16	30	5000	1:1	67	50	63	27	24.5	45	220441-000	FR20MT1645
											220461-000	FL20MT1645
20	1-10 ER16	30	5000	1:1	92	50	63	27	24.5	70	220448-000	FR20MT1670
											220468-000	FL20MT1670
30	1-16 ER25	42	5000	1:1	97	64	74.5	41	26	65	230441-000	FR30MT2565
											230461-000	FL30MT2565
30	1-16 ER25	42	5000	1:1	117	64	74.5	41	26	85	230448-000	FR30MT2585
											230468-000	FL30MT2585
40	2-20 ER32	50	5000	1:1	99	80	71	40	23	65	240441-000	FR40MT3265
											240461-000	FL40MT3265
40	2-20 ER32	50	5000	1:1	119	80	71	40	23	85	240448-000	FR40MT3285
											240468-000	FL40MT3285
40	2-20 ER32	50	5000	1:1	134	80	71	40	23	100	240449-000	FR40MT32100
											240469-000	FL40MT32100

RADIAL TAPPING HEADS

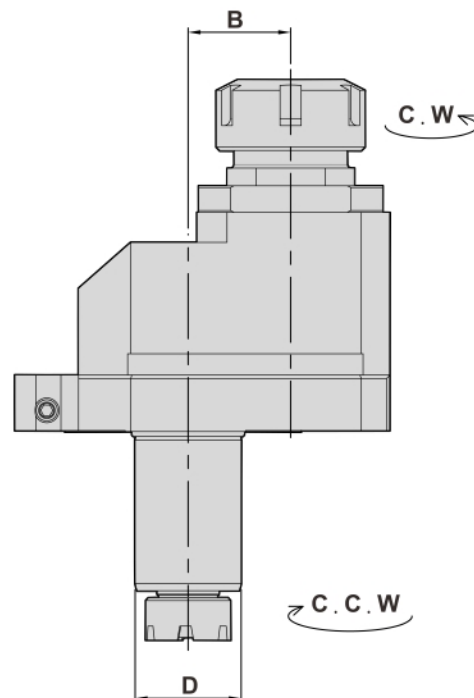
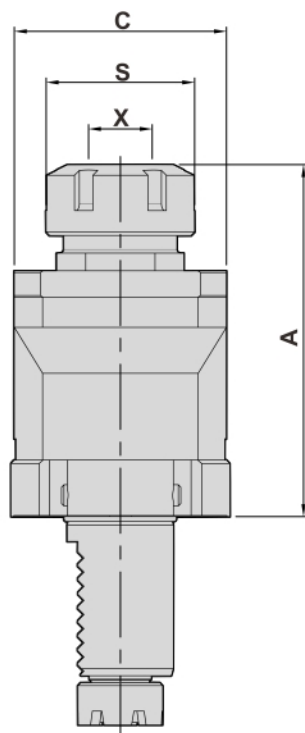
徑向彈性攻牙刀座 (90°)

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	F	G	M	Code No.	Order No.
30	1-10 ER16	30	3000	1:1	97	64	75	41	30	65	230445-000	TFR30MT1665
											230465-000	TFL30MT1665
30	1-10 ER16	30	3000	1:1	117	64	75	41	30	85	230450-000	TFR30MT1685
											230470-000	TFL30MT1685
40	1-13 ER20	35	3000	1:1	99	80	70	40	25	65	240445-000	TFR40MT2065
											240465-000	TFL40MT2065
40	1-13 ER20	35	3000	1:1	119	80	70	40	25	85	240450-000	TFR40MT2085
											240470-000	TFL40MT2085
50	1-16 ER25	42	3000	1:1	115	88	103	56	42	75	250450-000	TFR50MT2575
											250465-000	TFL50MT2575

AXIAL DRILLING AND MILLING HEADS OFFSET

軸向偏心鑽銑刀座 (0°)



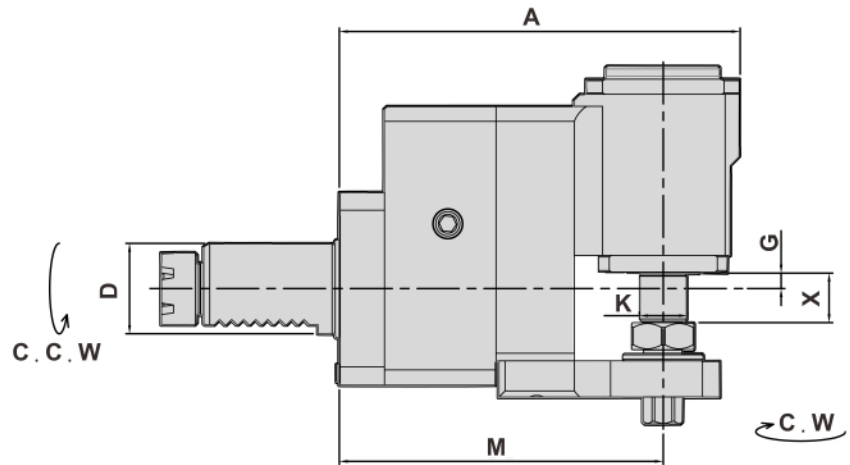
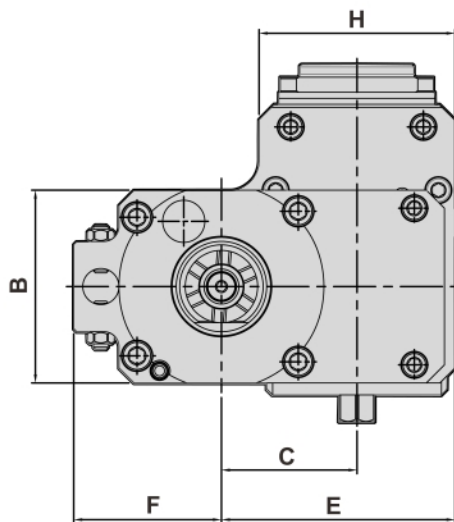
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	Code No.	Order No.
20	1-10 ER16	30	4000	1:1	93.5	29	50	120408-000	DA20MT1629
30	1-16 ER25	42	4000	1:1	100	29	60	130408-000	DA30MT2529
* 30	1-16 ER25	42	8000	1:2	100	29	60	130411-000	DA30MT2529/1
40	2-20 ER32	50	4000	1:1	125	50	75	140408-000	DA40MT3250
50	3-26 ER40	63	3000	1:1	124	65	86	150408-000	DA50MT4065
60	10-34 ER50	78	3000	1:1	168	65	104	160408-000	DA60MT5065
60	10-34 ER50	78	3000	1:1	173.5	80	104	160409-000	DA60MT5080

* 2倍增速

RADIAL MILLING HEADS DISK CUTTER UNITS 徑向側銑刀座 (90°)



DIMENSIONS

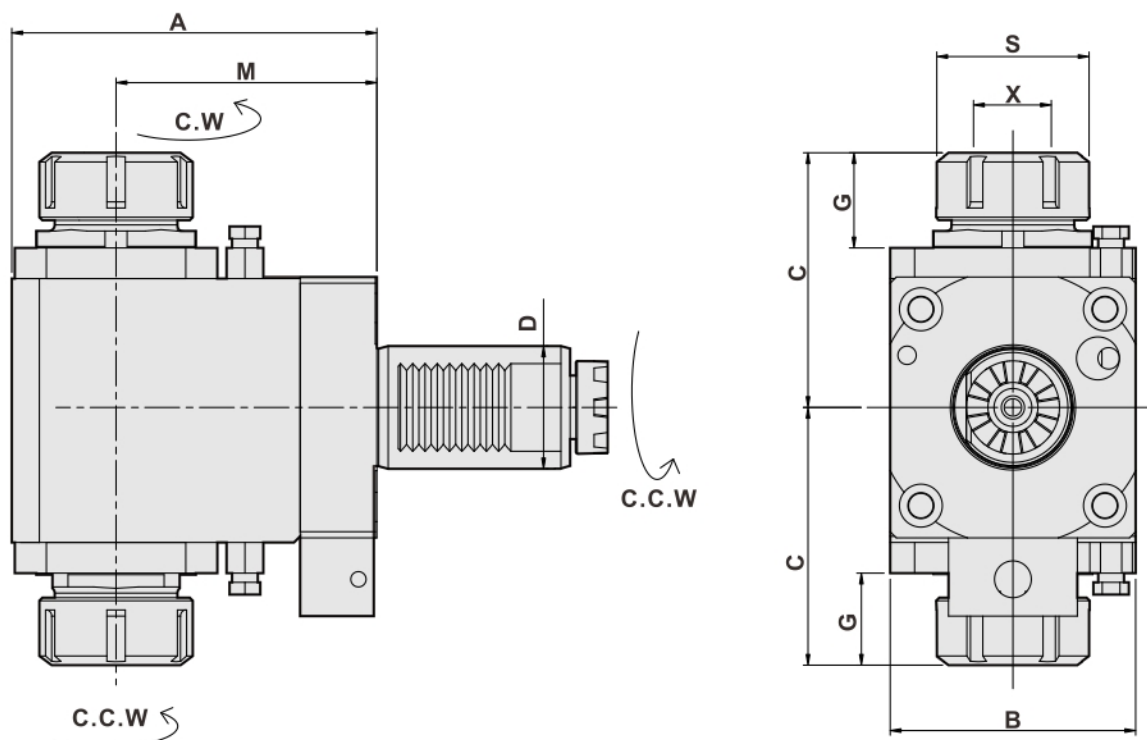
D DIN 69880	X Capacity	Maximum R.P.M	i	A	B	C	E	F	G	H	K	M	Code No.	Order No.
30	16	3000	3:1	133	64	45	77.5	49	5	65	16	107.5	230407-000 230427-000	BR30MT16C/3 BL30MT16C/3
30	16	3000	3:1	133	64	45	77.5	49	5	65	25.4	107.5	230409-000 230429-000	BR30MT25.4C/3 BL30MT25.4C/3
40	16	3000	3:1	136	70	45	77.5	75	5	65	16	110.5	240407-000 240427-000	BR40MT16C/3 BL40MT16C/3
40	16	3000	3:1	136	70	45	77.5	75	5	65	25.4	110.5	240409-000 240429-000	BR40MT25.4C/3 BL40MT25.4C/3

* i = 3倍減速

Other shank dimensions under development

RADIAL DRILLING AND MILLING HEADS DOUBLE HEADS

徑向雙頭鑽銑刀座 (90°)



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

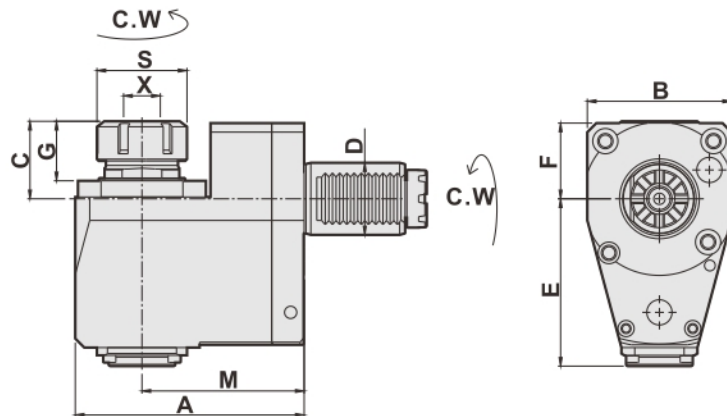
DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	G	M	Code No.	Order No.
30	1-16 ER25	42	4000	1 : 1	112	64	66	27	85	230475-000	FL30MT2585D
40	2-20 ER32	50	4000	1 : 1	119	80	82	28	85	240475-000	FL40MT3285D
40	2-20 ER32	50	4000	1 : 1	134	80	82	28	100	240476-000	FL40MT32100D

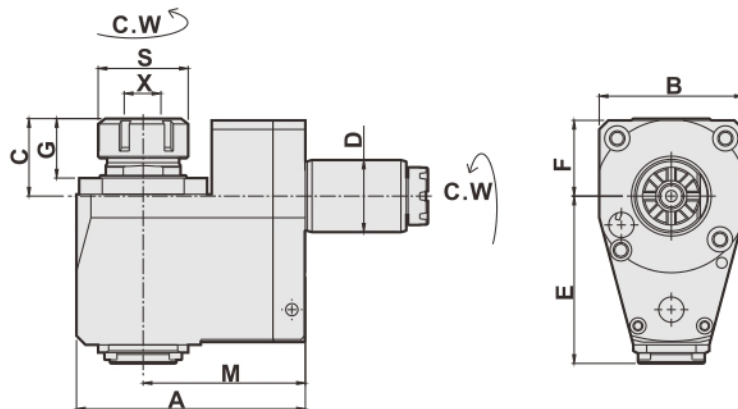
RADIAL DRILLING AND MILLING HEADS OFFSET

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.
40	2-20 ER32	50	5000	1:1	127	80	44	92.8	42	34	90	240403-000	SHBR40MT3290
												240423-000	SHBL40MT3290

RADIAL TAPPING HEADS

徑向彈性攻牙刀座-後縮型 (90°)

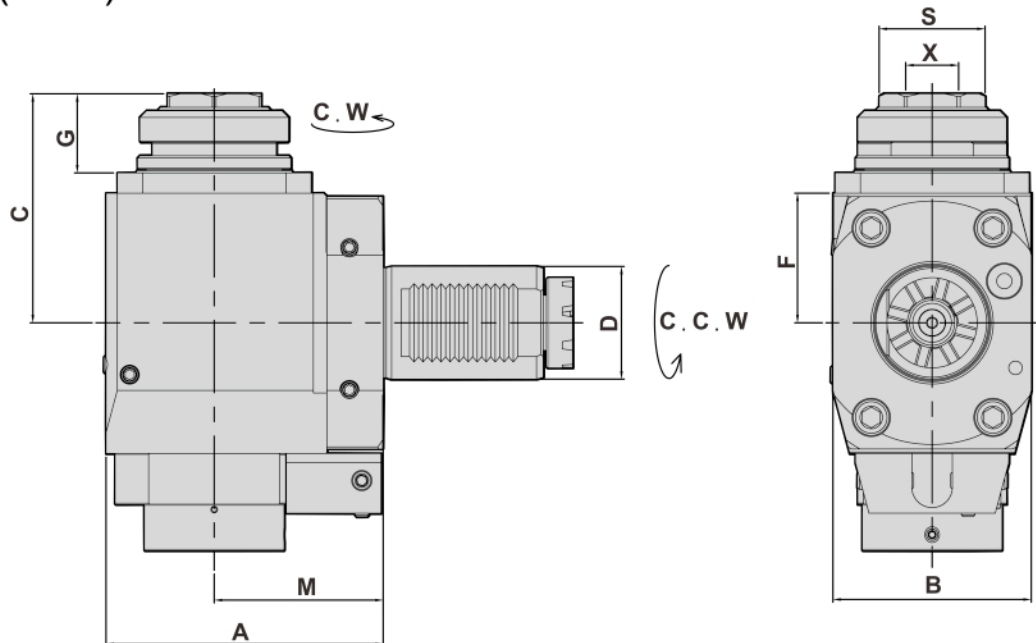
DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	E	F	G	M	Code No.	Order No.
40	1-13 ER20	35	3000	1:1	127	80	58	92.8	42	48	90	240408-000	SHTBR40MT2090
												240428-000	SHTBL40MT2090

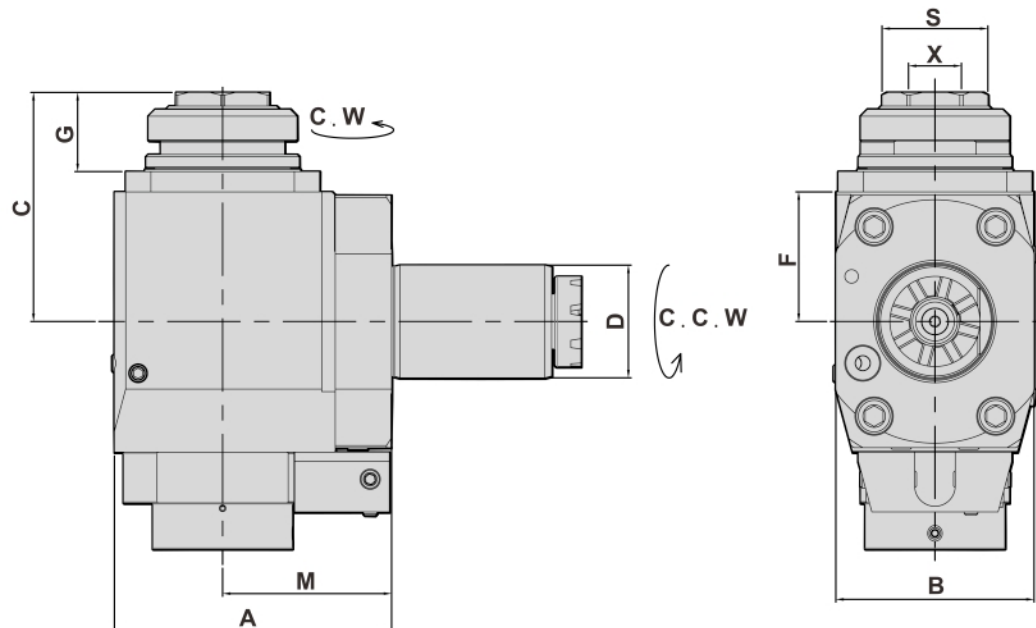
RADIAL MILLING AND DRILLING HEADS

徑向鑽銑刀座 (90°)

MODE : FL
LEFT-HAND



MODE : FR
RIGHT-HAND



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

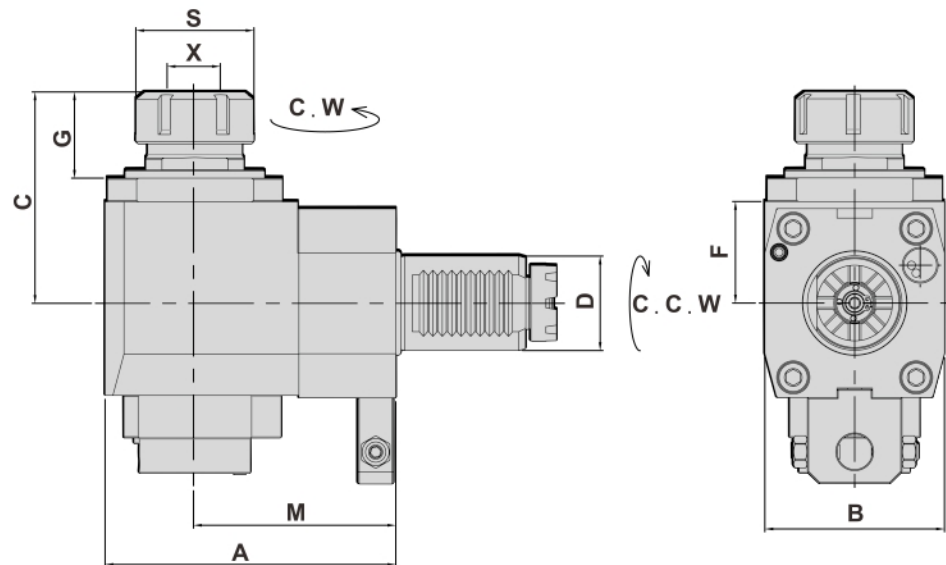
DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	F	G	M	Code No.	Order No.
50	3-26 ER40	47	5000	1:1	123	88	102	56	35	75	250474-000 250462-000	CWFR50MT40A75 CWFL50MT40A75

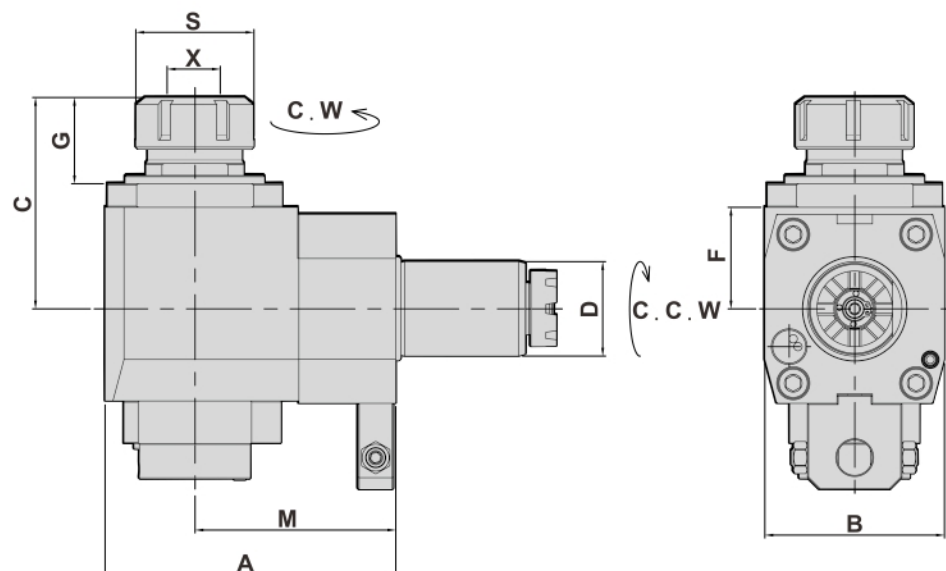
RADIAL DRILLING AND MILLING HEADS

徑向鑽銑刀座 (90°)

MODE : FL
LEFT-HAND



MODE : FR
RIGHT-HAND



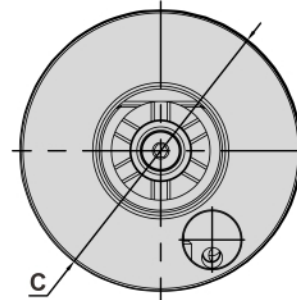
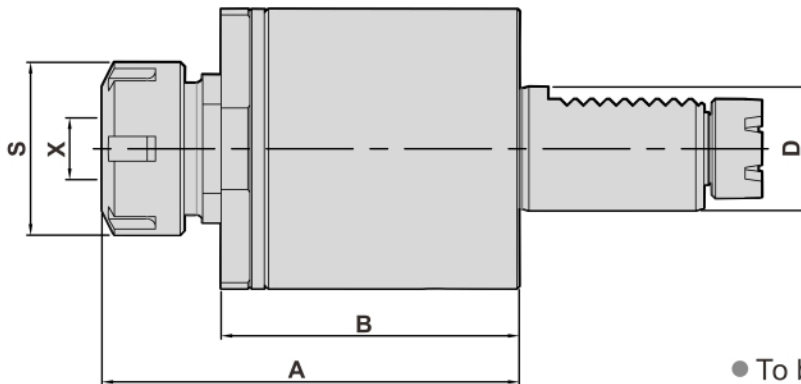
- To be used for collet DIN 6499
- Internal coolant supply 中心出水
- External coolant supply
- Collet is not included

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	F	G	M	Code No.	Order No.
40	2-20 ER32	50	5000	1:1	123	76	89.5	40	36.5	85	240454-000	CWFR40MT3285
											240474-000	CWFL40MT3285
50	3-26 ER40	63	5000	1:1	123	88	117	56	50	75	250446-000	CWFR50MT4075
											250466-000	CWFL50MT4075

AXIAL MILLING AND DRILLING HEADS

軸向鑽銑刀座 (0°)



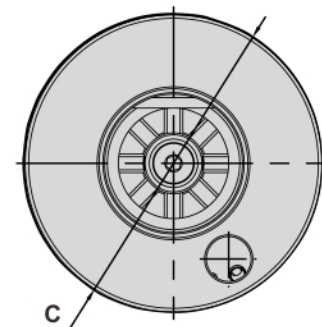
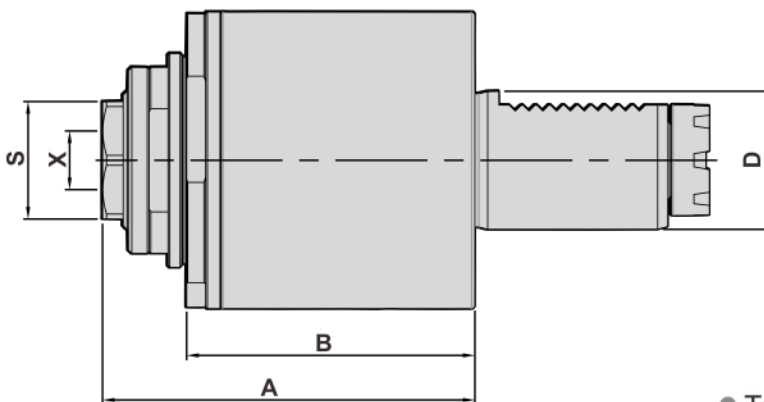
- To be used for collet DIN 6499
- Internal coolant supply 中心出水
- External coolant supply
- Collet is not included

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	Code No.	Order No.
30	1~16 ER25	42	6000	1 : 1	101.5	72.5	68	130407-000	CWDA30MTER25
50	3~26 ER40	63	6000	1 : 1	134	94.5	96	150407-000	CWDA50MTER40
60	10~34 ER50	78	6000	1 : 1	143	90	116	160407-000	CWDA60MTER50

AXIAL MILLING AND DRILLING HEADS

軸向鑽銑刀座 (0°)



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

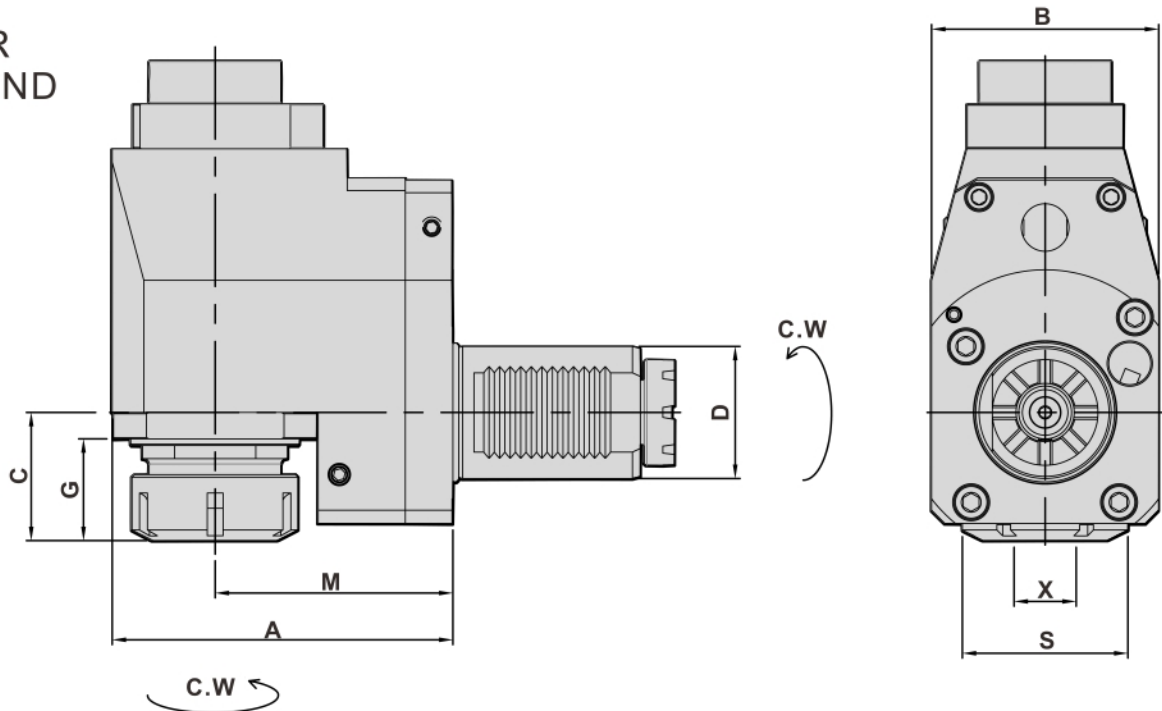
DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	Code No.	Order No.
40	2~20 ER32	38	6000	1 : 1	108	84	86	140420-000	CWDA40MTER32A
50	3~26 ER40	47	6000	1 : 1	120.5	94.5	96	150420-000	CWDA50MTER40A

RADIAL MILLING AND DRILLING HEADS OFFSET

徑向鑽銑刀座-後縮型 (90°)

MODE : BR
RIGHT-HAND



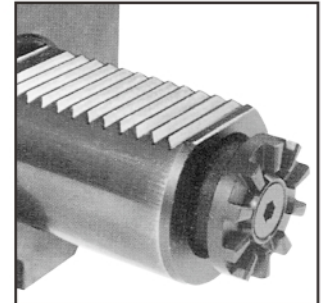
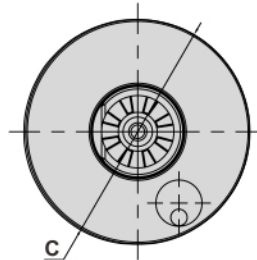
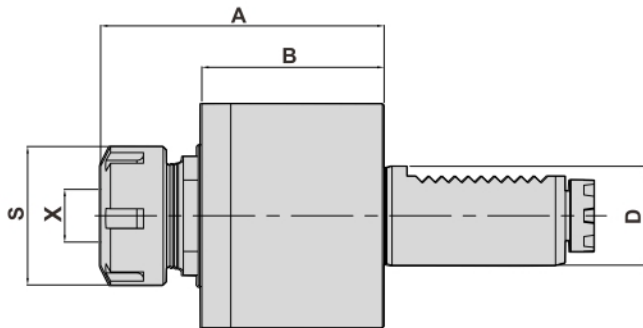
- To be used for collet DIN 6499
- Internal coolant supply 中心出水
- External coolant supply
- Collet is not included

DIMENSIONS

D DIN 69880	X Capacity	S	i	Maximum R.P.M	A	B	C	G	M	Code No.	Order No.
50	3~26 ER40	63	1:1	5000	129	86	48.5	38.5	90	250406-000	CWBR50MT4090
60	10~34 ER50	78	1:1	5000	154	104	71.5	50	106	260406-000	CWBR60MT50106

AXIAL DRILLING AND MILLING HEADS

軸向鑽銑刀座 (0°)



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

Power transmission according to "DUPLOMATIC"
IT: Front-side coupling is elastic stroke

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	Code No.	Order No.
30	1~16 ER25	42	6000	1:1	86	55	68	130501-000	DA30IT25
40	2~20 ER32	50	6000	1:1	89	55	86	140501-000	DA40IT32

AXIAL TAPPING HEADS

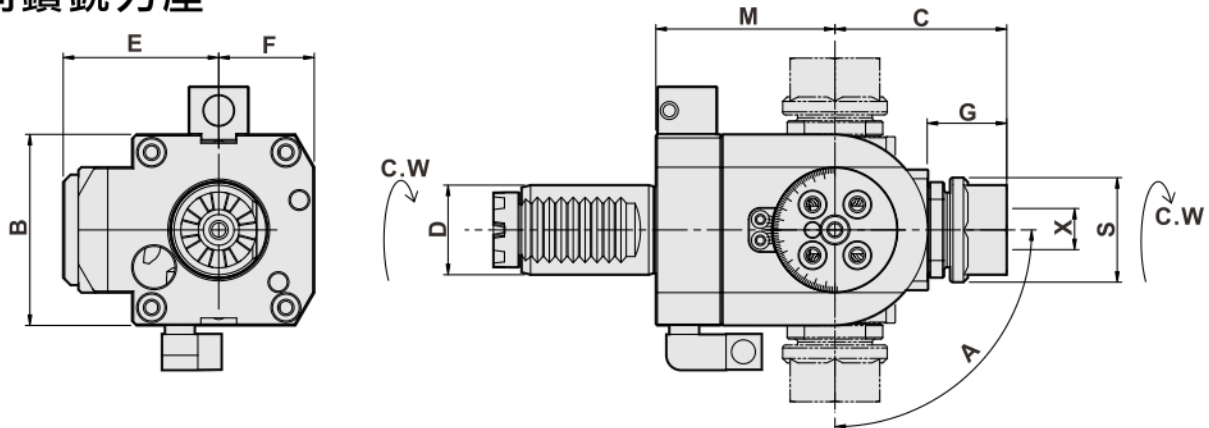
軸向彈性攻牙刀座 (0°)

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	Code No.	Order No.
30	1~10 ER16	30	3000	1:1	85	55	68	130516-000	TDA30IT16
40	1~13 ER20	35	3000	1:1	102	55	86	140516-000	TDA40IT20

ANGULAR HEAD

萬向鑽銑刀座



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

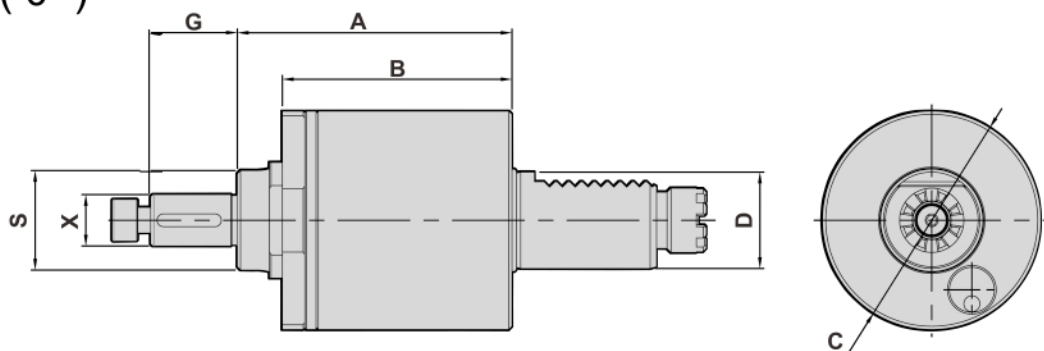
Other shank dimensions under development

DIMENSIONS

D DIN 69880	X Capacity	Maximum R.P.M	S	A	B	C	E	F	G	M	Code No.	Order No.
30	1~13 ER20	4000	35	±90°	64	59	54	32	27	67	130515-000	DA30IT20B
40	1~16 ER25	4000	42	±90°	76	65	65	38	29	70	140515-000	DA40IT25B

AXIAL MILLING AND DRILLING HEADS

軸向鑽銑刀座 (0°)



- To be used for cutter arbor according to DIN6358
- External coolant and intermediate rings supply.

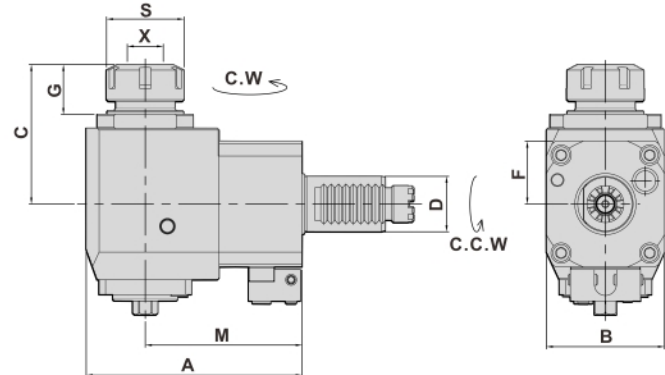
DIMENSIONS

D DIN 69880	X DIN 6358	Maximum R.P.M	S	A	B	C	G	Code No.	Order No.
30	16	3000	32	91.5	55	68	27	130505-000	DA30IT16C
40	16	3000	32	68.5	55	86	27	140505-000	DA40IT16C
40	22	3000	32	68.5	55	86	31	140506-000	DA40IT22C

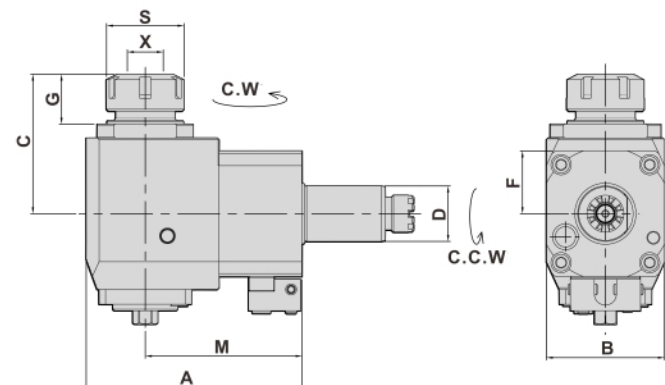
RADIAL DRILLING AND MILLING HEADS

徑向鑽銑刀座 (90°)

MODE : FL
LEFT-HAND



MODE : FR
RIGHT-HAND



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

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	F	G	M	Code No.	Order No.
30	1-16 ER25	42	5000	1:1	97	64	74.5	41	26	65	230541-000	FR30IT2565
											230561-000	FL30IT2565
30	1-16 ER25	42	5000	1:1	117	64	74.5	41	26	85	230548-000	FR30IT2585
											230568-000	FL30IT2585
40	2-20 ER32	50	5000	1:1	99	80	71	40	23	65	240541-000	FR40IT3265
											240561-000	FL40IT3265
40	2-20 ER32	50	5000	1:1	119	80	71	40	23	85	240548-000	FR40IT3285
											240568-000	FL40IT3285
40	2-20 ER32	50	5000	1:1	134	80	71	40	23	100	240549-000	FR40IT32100
											240569-000	FL40IT32100

RADIAL TAPPING HEADS

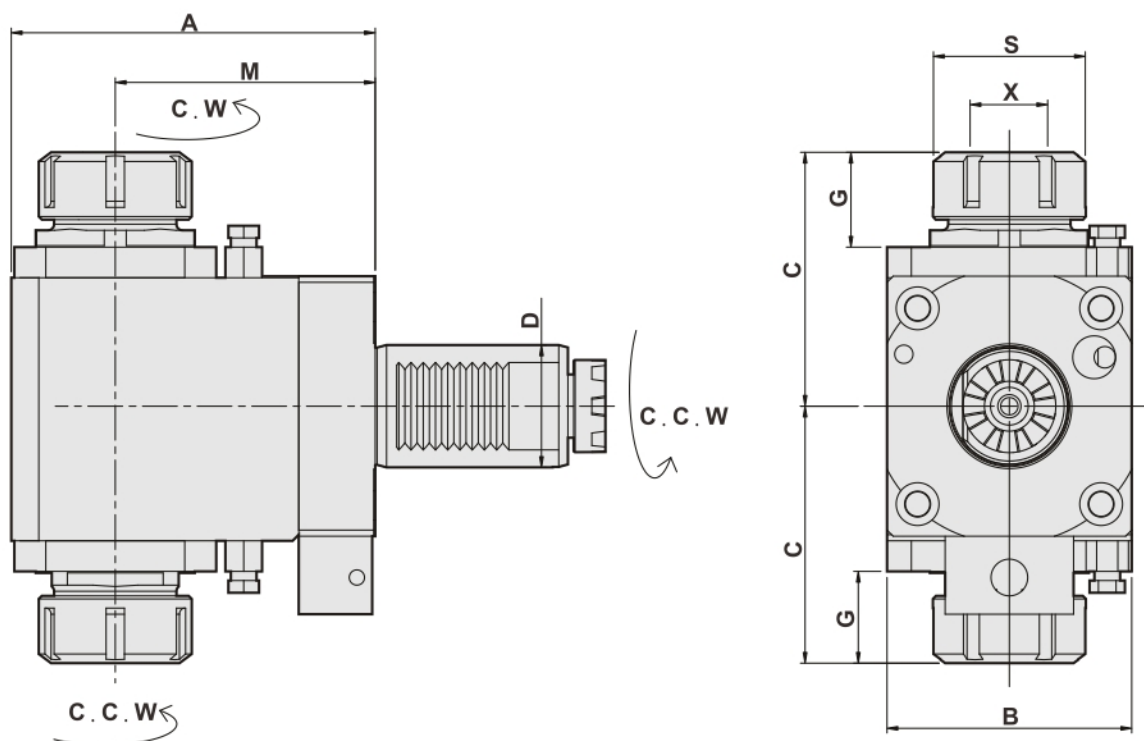
徑向彈性攻牙刀 (90°)

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	F	G	M	Code No.	Order No.
30	1-10 ER16	32	3000	1:1	97	64	75	41	30	65	230545-000	TFR30IT1665
											230565-000	TFL30IT1665
30	1-10 ER16	32	3000	1:1	117	64	75	41	30	85	230551-000	TFR30IT1685
											230571-000	TFL30IT1685
40	1-13 ER20	35	3000	1:1	99	80	70	40	25	65	240545-000	TFR40IT2065
											240565-000	TFL40IT2065
40	1-13 ER20	35	3000	1:1	119	80	70	40	25	85	240550-000	TFR40IT2085
											240570-000	TFL40IT2085

RADIAL DRILLING AND MILLING HEADS DOUBLE HEADS

徑向雙頭鑽銑刀座 (90°)



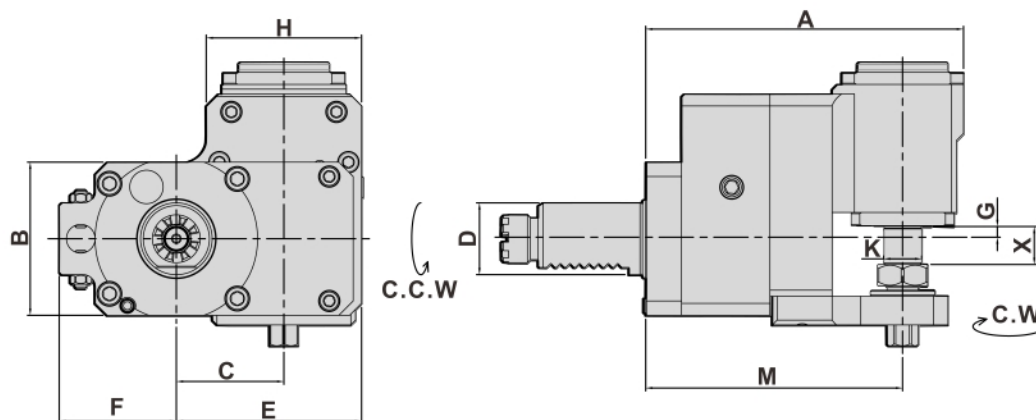
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	G	M	Code No.	Order No.
30	1-16 ER25	42	4000	1:1	112	64	66	26.5	85	230575-000	FL30IT2585D
40	2-20 ER32	50	4000	1:1	119	80	82	28	85	240575-000	FL40IT3285D
40	2-20 ER32	50	4000	1:1	134	80	82	28	100	240576-000	FL40IT32100D

Other shank dimensions under development

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



External coolant supply

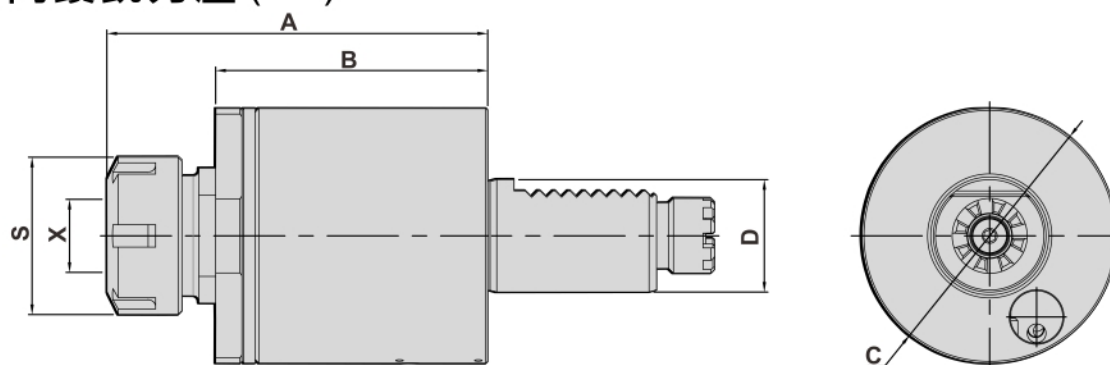
* i = 3倍減速

Other shank dimensions under development

DIMENSIONS

D DIN 69880	X Capacity	Maximum R.P.M	i	A	B	C	E	F	G	H	K	M	Code No.	Order No.
30	16	3000	3:1	133	64	45	77.5	49	5	65	16	107.5	230507-000 230527-000	BR30IT16C/3 BL30IT16C/3
30	16	3000	3:1	133	64	45	77.5	49	5	65	25.4	107.5	230509-000 230529-000	BR30IT25.4C/3 BL30IT25.4C/3
40	16	3000	3:1	136	70	45	77.5	75	5	65	16	110.5	240507-000 240527-000	BR40IT16C/3 BL40IT16C/3
40	16	3000	3:1	136	70	45	77.5	75	5	65	25.4	110.5	240509-000 240529-000	BR40IT25.4C/3 BL40IT25.4C/3

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

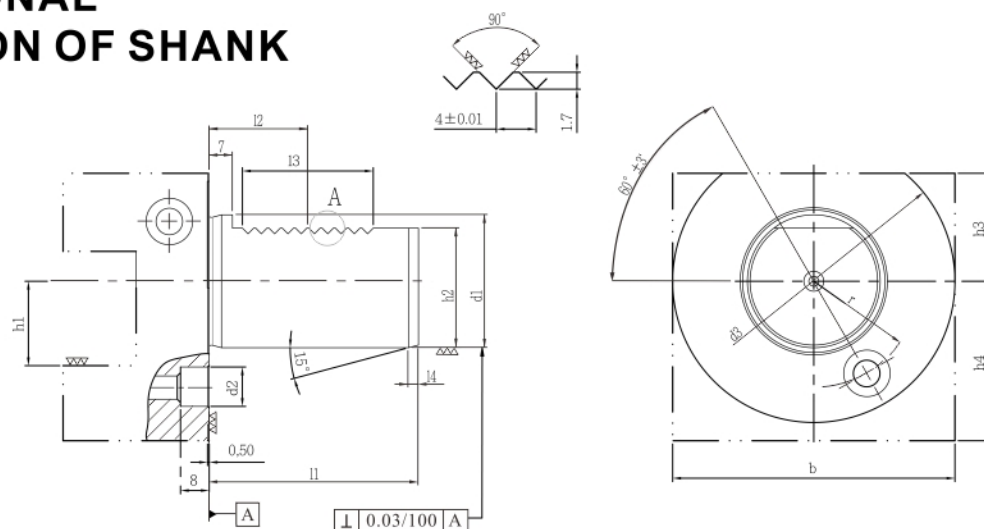


- To be used for collet DIN 6499
- Internal coolant supply 中心出水
- External coolant supply
- Collet is not included

DIMENSIONS

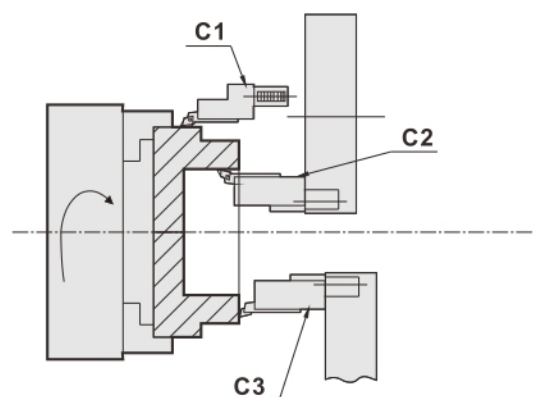
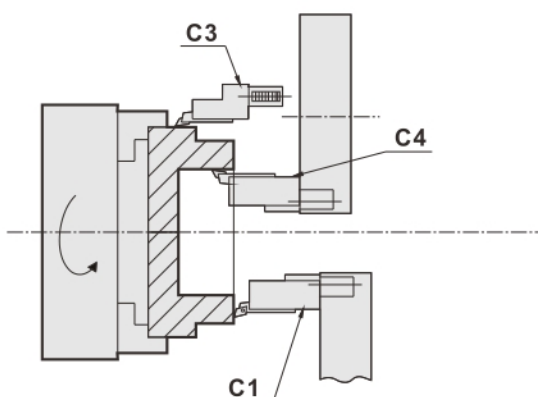
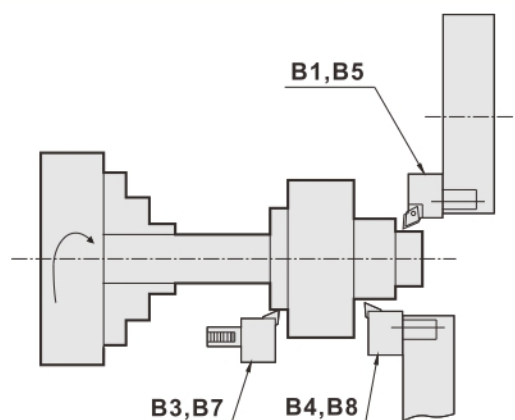
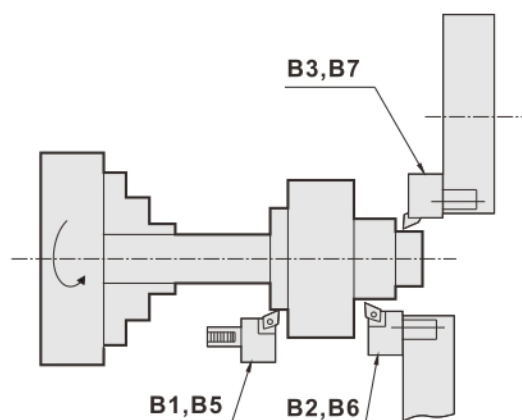
D DIN 69880	X Capacity	S	Maximum R.P.M	i	A	B	C	Code No.	Order No.
30	1-16 ER25	42	6000	1:1	101.5	72.5	68	130507-000	CWDA30ITER25

VDI DIMENSIONAL SPECIFICATION OF SHANK

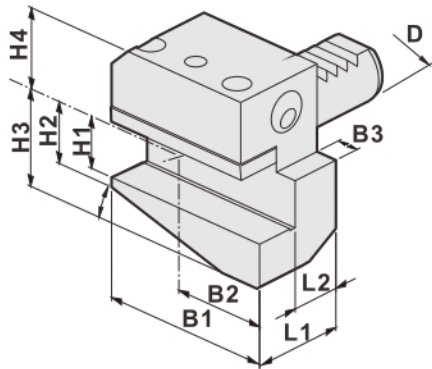


DIMENSIONS

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 RADIAL STATIC HOLDERS

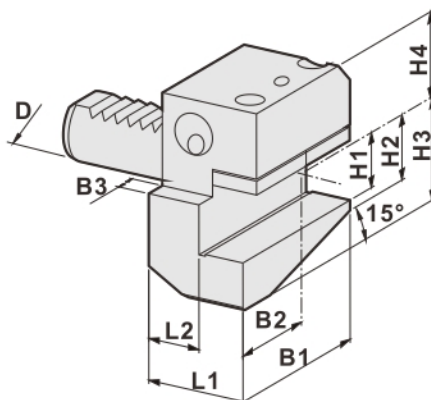


B1

- Right-hand
- Short
- External Coolant Supply

DIMENSIONS

D	B1	B2	B3	H1	H2	H3	H4	L1	L2	Code No.	Order No.
20	55	30	7	5/8" (inch)	19	30	25	30	16	4D1501-000	B1-20x5/8"
				16 (mm)						404501-000	B1-20x16
30	70	35	10	3/4" (inch)	26	38	28	40	22	4E1501-000	B1-30x3/4"
				20 (mm)						405501-000	B1-30x20
40	85	42.5	12.5	1" (inch)	35	48	32.5	44	22	4F1501-000	B1-40x1"
				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"
				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"
				32 (mm)						407513-000	B1-60x32



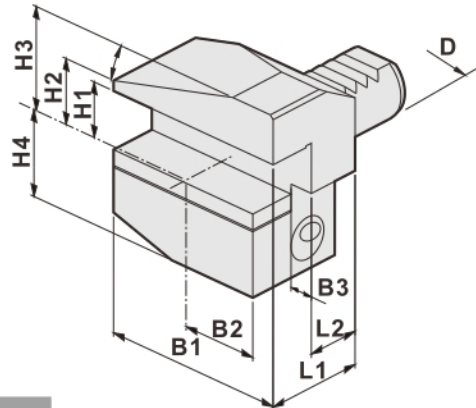
B2

- Left-hand
- Short
- External Coolant Supply

DIMENSIONS

D	B1	B2	B3	H1	H2	H3	H4	L1	L2	Code No.	Order No.
20	55	30	7	5/8" (inch)	19	30	25	30	16	5D1501-000	B2-20x5/8"
				16 (mm)						504501-000	B2-20x16
30	70	35	10	3/4" (inch)	26	38	28	40	22	5E1501-000	B2-30x3/4"
				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
				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"
				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"
				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"
				32 (mm)						507507-000	B2-60x32

DIN 69880 RADIAL STATIC HOLDERS

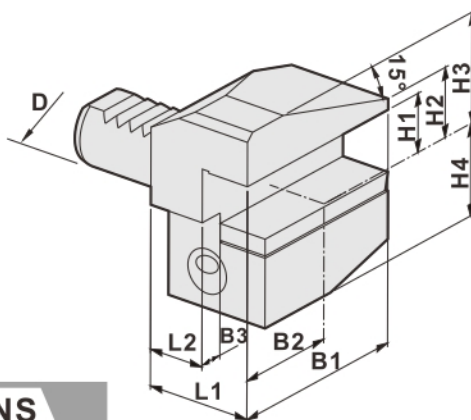


B3

- Right-hand
- Short
- External Coolant Supply

DIMENSIONS

D	B1	B2	B3	H1	H2	H3	H4	L1	L2	Code No.	Order No.
20	55	30	7	5/8" (inch)	19	30	25	30	16	4D1502-000	B3-20x5/8"
				16 (mm)						404502-000	B3-20x16
30	70	35	10	3/4" (inch)	22	38	35	40	22	4E1502-000	B3-30x3/4"
				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"
				25 (mm)						406515-000	B3-30xC25
40	85	42.5	12.5	1" (inch)	30	48	42.5	44	22	4F1502-000	B3-40x1"
				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"
				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"
				32 (mm)						407514-000	B3-60x32
60	135	20	21	32 (mm)	42.5	62.5	62.5	140	110	407526-000	B3-60x32-140L



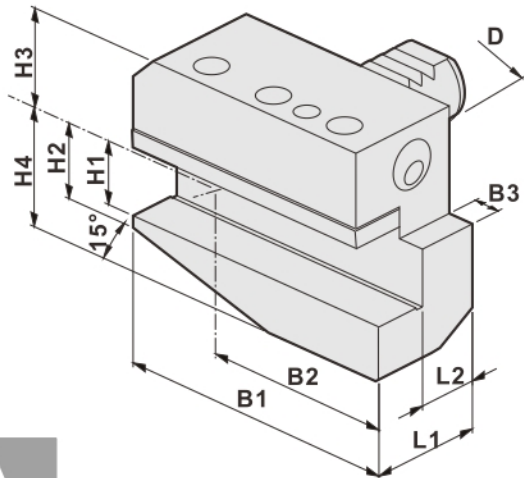
B4

- Left-hand
- Short
- External Coolant Supply

DIMENSIONS

D	B1	B2	B3	H1	H2	H3	H4	L1	L2	Code No.	Order No.
20	55	30	7	5/8" (inch)	19	30	25	30	16	5D1502-000	B4-20x5/8"
				16 (mm)						504502-000	B4-20x16
30	70	35	10	3/4" (inch)	22	38	35	40	22	5E1502-000	B4-30x3/4"
				20 (mm)						505502-000	B4-30x20
40	85	42.5	12.5	1" (inch)	30	48	42.5	44	22	5F1502-000	B4-40x1"
				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
				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"
				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"
				32 (mm)						507508-000	B4-60x32

DIN 69880 RADIAL STATIC HOLDERS

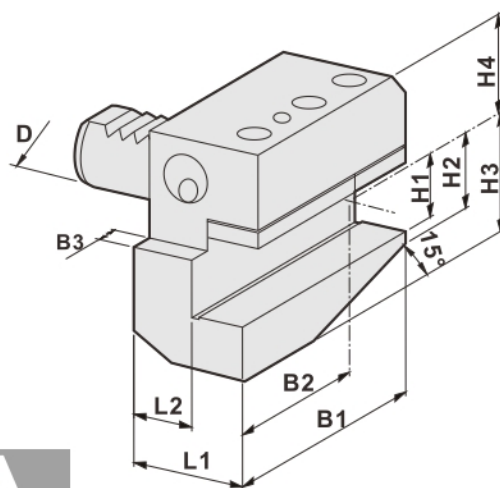


B5

- Right-hand
- Long
- External Coolant Supply

DIMENSIONS

D	B1	B2	B3	H1	H2	H3	H4	L1	L2	Code No.	Order No.
20	75	50	7	5/8" (inch)	19	30	25	30	16	4D1503-000	B5-20x5/8"
				16 (mm)						404503-000	B5-20x16
30	100	65	10	3/4" (inch)	26	38	28	40	22	4E1503-000	B5-30x3/4"
				20 (mm)						405503-000	B5-30x20
40	118	76	12.5	1" (inch)	35	48	32.5	44	22	4F1503-000	B5-40x1"
				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"
				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"
				32 (mm)						407515-000	B5-60x32



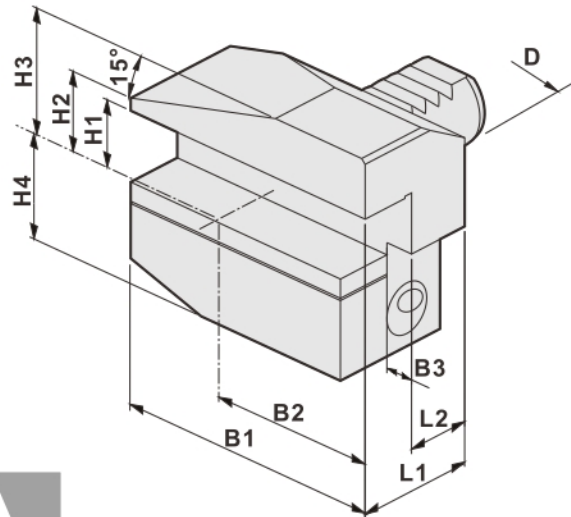
B6

- Left-hand
- Long
- External Coolant Supply

DIMENSIONS

D	B1	B2	B3	H1	H2	H3	H4	L1	L2	Code No.	Order No.
20	75	50	7	5/8" (inch)	19	30	25	30	16	5D1503-000	B6-20x5/8"
				16 (mm)						504503-000	B6-20x16
30	100	65	10	3/4" (inch)	26	38	28	40	22	5E1503-000	B6-30x3/4"
				20 (mm)						505503-000	B6-30x20
40	118	76	12.5	1" (inch)	35	48	32.5	44	22	5F1503-000	B6-40x1"
				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"
				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"
				32 (mm)						507509-000	B6-60x32

DIN 69880 RADIAL STATIC HOLDERS

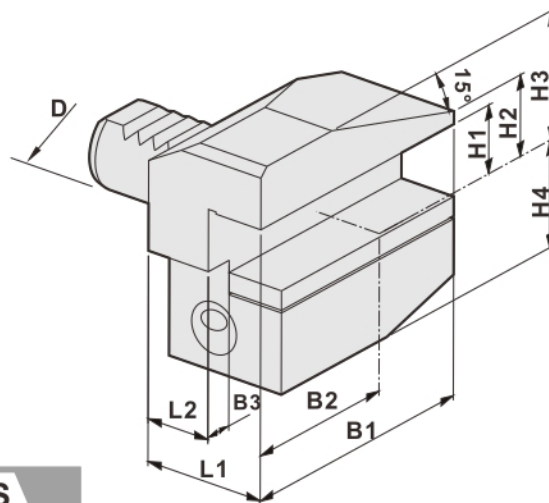


B7

- Right-hand
- Long
- External Coolant Supply

DIMENSIONS

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



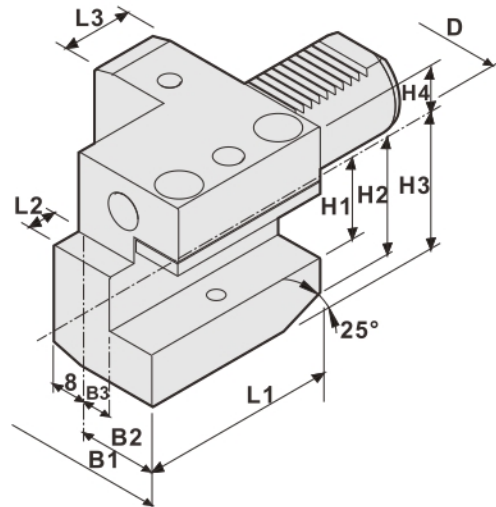
B8

- Left-hand
- Long
- External Coolant Supply

DIMENSIONS

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

DIN 69880 AXIAL STATIC HOLDERS

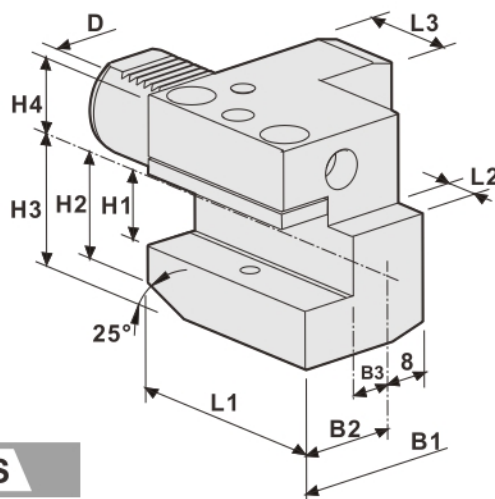


C1

- Right-hand
- External Coolant Supply

DIMENSIONS

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



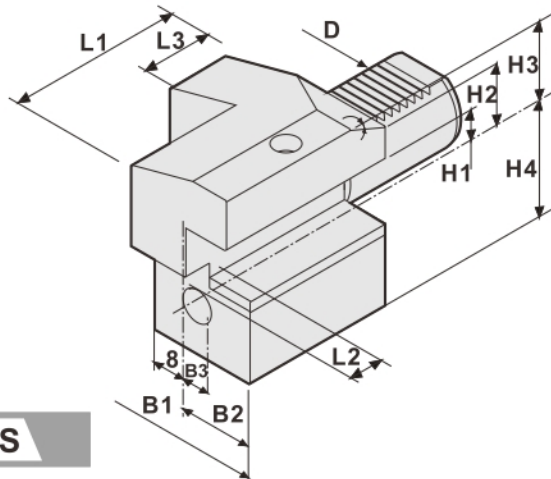
C2

- Left-hand
- External Coolant Supply

DIMENSIONS

D	B1	B2	B3	H1	H2	H3	H4	L1	L2	L3	Code No.	Order No.
20	65	40	26	5/8" (inch)	23	30	25	50	7	30	4D1505-000	C2-20x5/8"
				16 (mm)							404505-000	C2-20x16
30	76	41	23	3/4" (inch)	28	38	28	70	10	30	4E1505-000	C2-30x3/4"
				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"
				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
				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"
				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"
				32 (mm)							407517-000	C2-60x32

DIN 69880 AXIAL STATIC HOLDERS

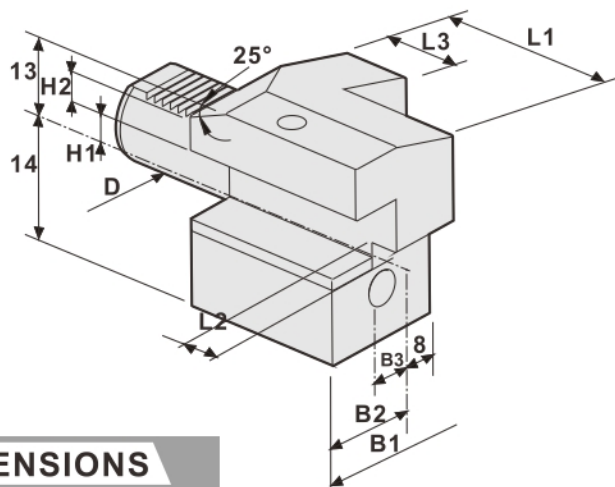


C3

- Right-hand
- External Coolant Supply

DIMENSIONS

D	B1	B2	B3	H1	H2	H3	H4	L1	L2	L3	Code No.	Order No.
20	65	40	26	5/8" (inch) 16 (mm)	23	30	25	50	7	30	5D1506-000	C3-20x5/8"
											504506-000	C3-20x16
30	70	35	17	3/4" (inch) 20 (mm)	28	38	35	70	10	30	5E1506-000	C3-30x3/4"
											505506-000	C3-30x20
40	85	42.5	21	1" (inch) 25 (mm)	-	48	42.5	85	12.5	30	5F1506-000	C3-40x1"
											506506-000	C3-40x25
40	145.5	98	76	1" (inch) 25 (mm)	35	48	42.5	85	12.5	30	5F1518-000	C3-40xF1"-76
											506518-000	C3-40xF25-76
50	100	50	26	1-1/4" (inch) 32 (mm)	-	60	50	100	16	40	5G1506-000	C3-50x1-1/4"
											507506-000	C3-50x32
60	125	62.5	33	1-1/4" (inch) 32 (mm)	-	62.5	62.5	125	16	40	5G1512-000	C3-60x1-1/4"
											507512-000	C3-60x32



C4

- Left-hand
- External Coolant Supply

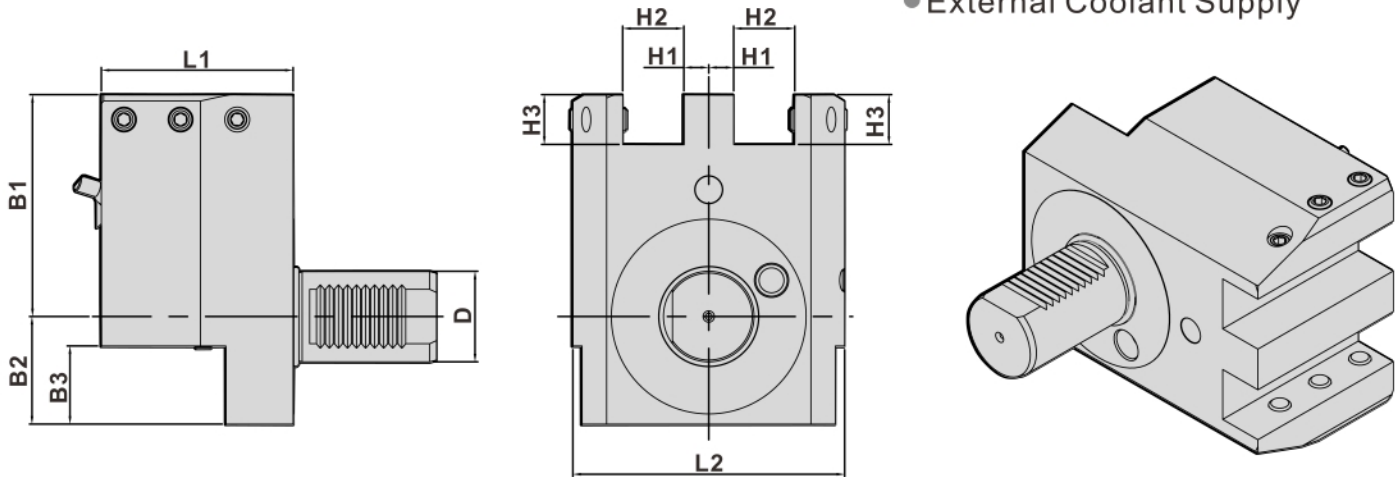
DIMENSIONS

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

DIN 69880 AXIAL STATIC HOLDERS

C4

- Right-hand
- External Coolant Supply

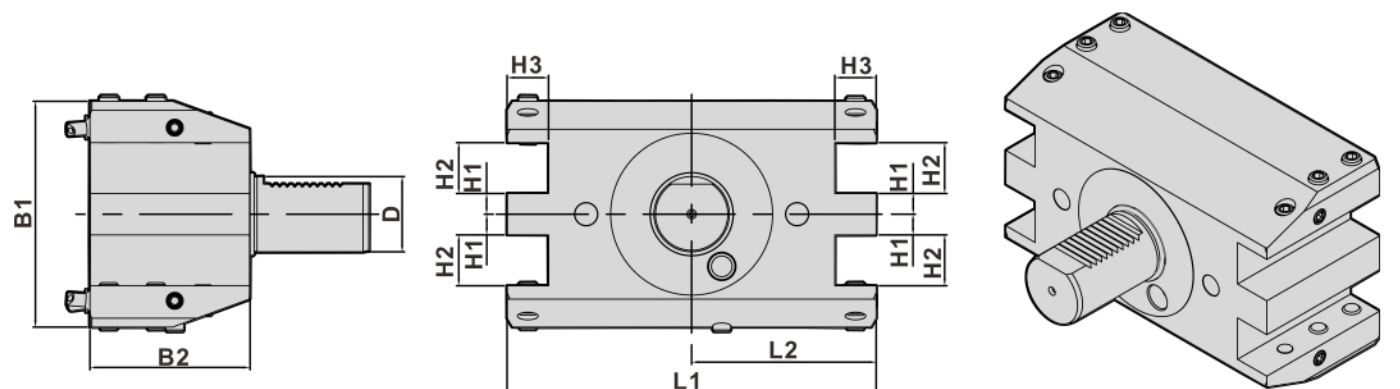


DIMENSIONS

D	B1	B2	B3	H1	H2	H3	L1	L2	Code No.	Order No.
40	98	47.5	34.5	11	27	22	85	120	406520-000	C4-40-25x2-76

C4

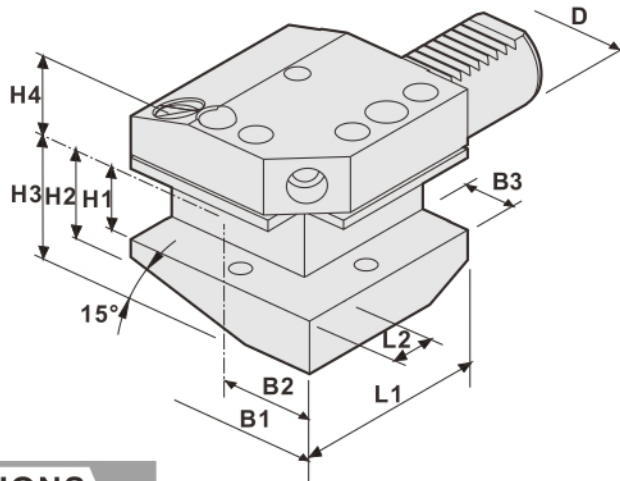
- Right-hand
- External Coolant Supply



DIMENSIONS

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

DIN 69880 COMBINED STATIC HOLDERS



CB1

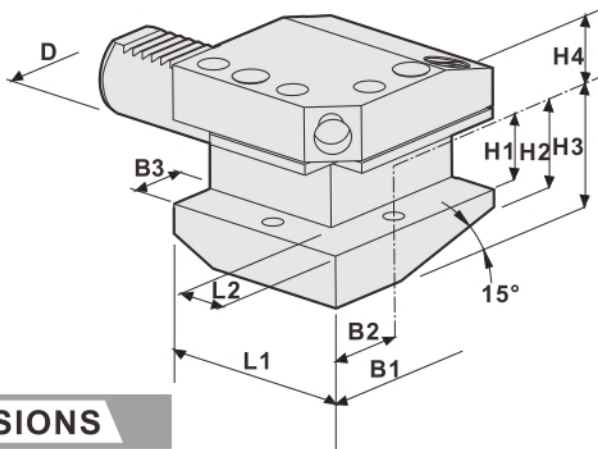
- Right-hand
- External Coolant Supply

DIMENSIONS

D	B1	B2	B3	H1	H2	H3	H4	L1	L2	Code No.	Order No.
20	65	40	14	5/8" (inch)	19	30	25	50	14	4D1507-000	CB1-20x5/8"
				16 (mm)						404507-000	CB1-20x16
30	74	40	18	3/4" (inch)	26	38	28	70	18	4E1507-000	CB1-30x3/4"
				20 (mm)						405507-000	CB1-30x20
40	85	45	22	1" (inch)	35	48	32.5	100	22	4F1507-000	CB1-40x1"
				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"
				32 (mm)						407507-000	CB1-50x32
60	125	62.5	30	1-1/4" (inch)	46	62.5	42.5	135	30	4G1519-000	CB1-60x1-1/4"
				32 (mm)						407519-000	CB1-60x32

CB2

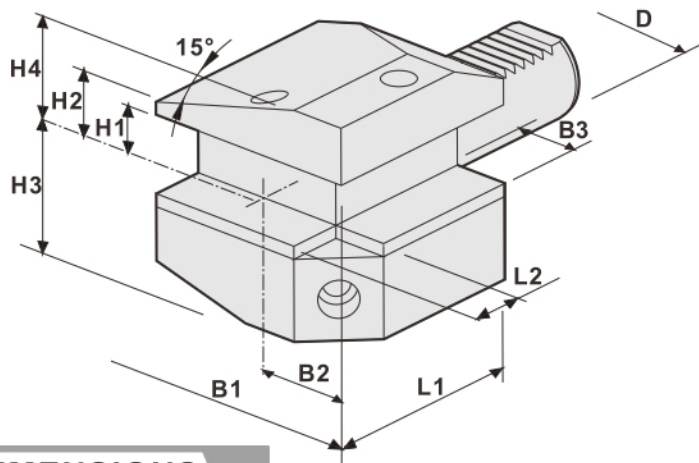
- Left-hand
- External Coolant Supply



DIMENSIONS

D	B1	B2	B3	H1	H2	H3	H4	L1	L2	Code No.	Order No.
20	65	40	14	5/8" (inch)	19	30	25	50	14	4D1508-000	CB2-20x5/8"
				16 (mm)						404508-000	CB2-20x16
30	74	40	18	3/4" (inch)	26	38	28	70	18	4E1508-000	CB2-30x3/4"
				20 (mm)						405508-000	CB2-30x20
40	85	47	22	1" (inch)	35	48	32.5	100	22	4F1508-000	CB2-40x1"
				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"
				32 (mm)						407508-000	CB2-50x32
60	125	62.5	30	1-1/4" (inch)	46	62.5	42.5	135	30	4G1520-000	CB2-60x1-1/4"
				32 (mm)						407520-000	CB2-60x32

DIN 69880 COMBINED STATIC HOLDERS

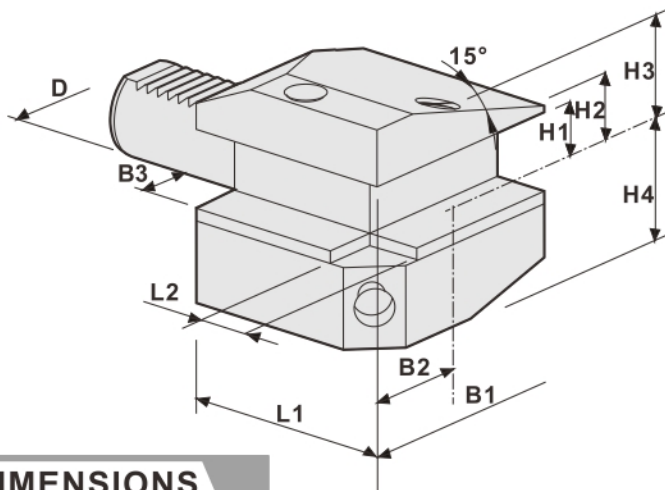


CB3

- Right-hand
- External Coolant Supply

DIMENSIONS

D	B1	B2	B3	H1	H2	H3	H4	L1	L2	Code No.	Order No.
20	65	40	14	5/8" (inch)	19	25	30	50	14	4D1509-000	CB3-20x5/8"
				16 (mm)						404509-000	CB3-20x16
30	74	40	18	3/4" (inch)	22	38	28	70	18	4E1509-000	CB3-30x3/4"
				20 (mm)						405509-000	CB3-30x20
40	85	45	22	1" (inch)	30	48	32.5	100	22	4F1509-000	CB3-40x1"
				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"
				32 (mm)						407509-000	CB3-50x32
60	125	62.5	30	1-1/4" (inch)	42.5	62.5	42.5	135	30	4G1521-000	CB3-60x1-1/4"
				32 (mm)						407521-000	CB3-60x32



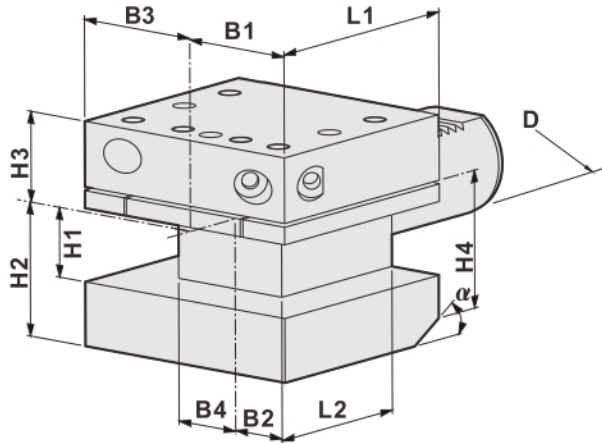
CB4

- Left-hand
- External Coolant Supply

DIMENSIONS

D	B1	B2	B3	H1	H2	H3	H4	L1	L2	Code No.	Order No.
20	65	40	14	5/8" (inch)	19	30	25	50	14	4D1510-000	CB4-20x5/8"
				16 (mm)						404510-000	CB4-20x16
30	74	40	18	3/4" (inch)	22	28	38	70	18	4E1510-000	CB4-30x3/4"
				20 (mm)						405510-000	CB4-30x20
40	85	47	22	1" (inch)	30	32.5	48	100	22	4F1510-000	CB4-40x1"
				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"
				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"
				32 (mm)						407522-000	CB4-60x32

DIN 69880 COMBINED STATIC HOLDERS

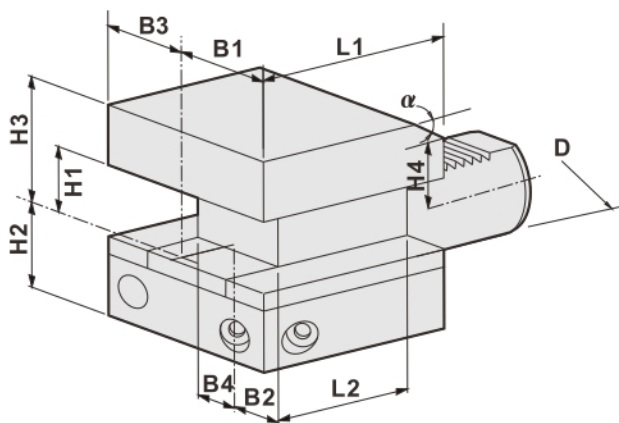


D1

- Right-hand
- External Coolant Supply

DIMENSIONS

D	B1	B2	B3	B4	H1	H2	H3	H4	L1	L2	α	Code No.	Order No.
30	35	17	41	23	3/4" (inch)	38	35	30	60	42	25°	4E1511-000	D1-30x3/4"
					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
					20 (mm)							405515-000	D1-30-C20x3-90
40	42.5	21	47.5	25.5	1" (inch)	48	42.5	40	72	50	25°	4F1511-000	D1-40x1"
					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"
					32 (mm)							407511-000	D1-50x32
60	57.5	33	57.5	33	1-1/4" (inch)	62.5	62.5	-	110	85	-	4G1523-000	D1-60x1-1/4"
					32 (mm)							407523-000	D1-60x32



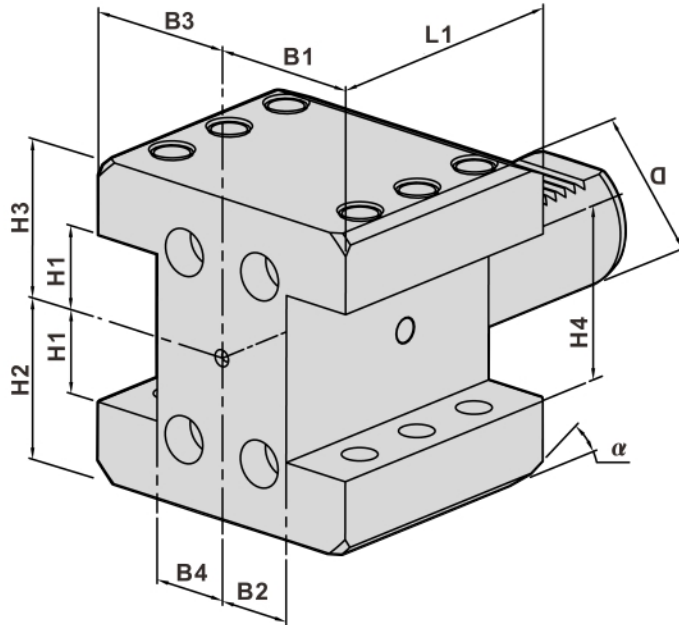
D2

- Left-hand
- External Coolant Supply

DIMENSIONS

D	B1	B2	B3	B4	H1	H2	H3	H4	L1	L2	α	Code No.	Order No.
30	35	17	41	23	3/4" (inch)	38	35	30	60	42	25°	4E1512-000	D2-30x3/4"
					20 (mm)							405512-000	D2-30x20
40	42.5	21	47.5	25.5	1" (inch)	48	42.5	40	72	50	25°	4F1512-000	D2-40x1"
					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"
					32 (mm)							407512-000	D2-50x32
60	57.5	33	57.5	33	1-1/4" (inch)	62.5	62.5	-	110	85	-	4G1524-000	D2-60x1-1/4"
					32 (mm)							407524-000	D2-60x32

DIN 69880 COMBINED STATIC HOLDERS

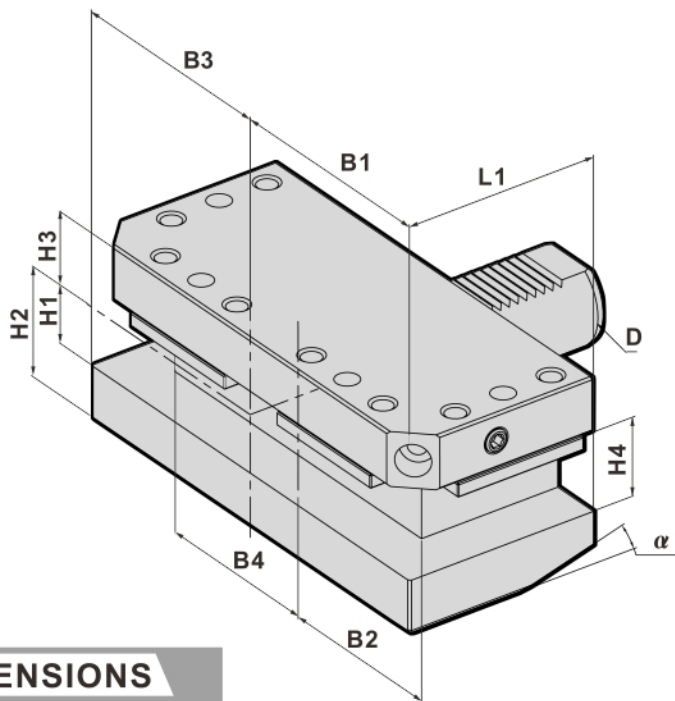


D12

- Right-hand
- External Coolant Supply

DIMENSIONS

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



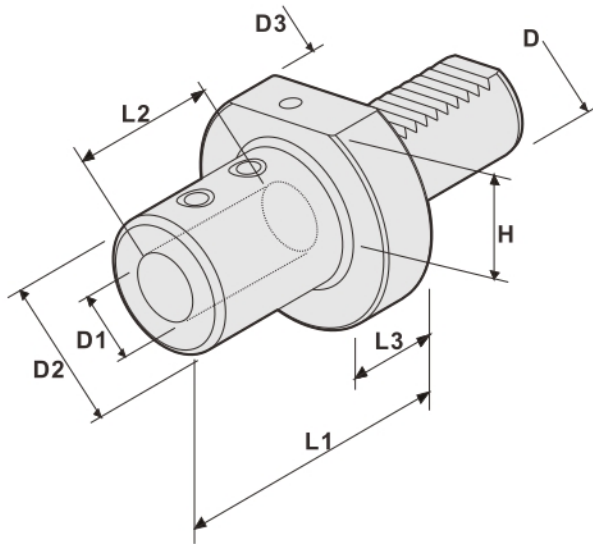
D1

- Right-hand
- External Coolant Supply

DIMENSIONS

D	B1	B2	B3	B4	H1	H2	H3	H4	L1	α	Code No.	Order No.
40	98	76	98	76	25	48	32.5	34	63	15°	406519-000	D1-40-C25-76

DIN 69880 STATIC HOLDERS



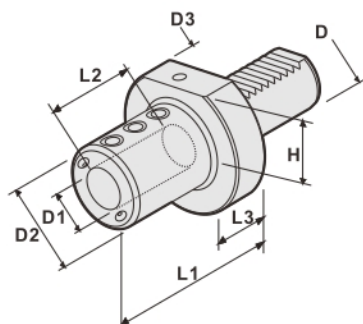
E1

- U Drills
- Internal Coolant Supply

DIMENSIONS

D	D1	D2	D3	H1	L1	L2	L3	Code No.	Order No.
20	3/4" (inch)	40	50	-	67	57	18	3E1506-000	E1-20x3/4"
	20 (mm)							305506-000	E1-20x20
20	1" (inch)	45	50	-	71	59	18	3F1506-000	E1-20x1"
	25 (mm)							306506-000	E1-20x25
30	3/4" (inch)	40	68	28	67	54	22	3E1507-000	E1-30x3/4"
	20 (mm)							305507-000	E1-30x20
30	1" (inch)	45	68	28	71	59	22	3F1507-000	E1-30x1"
	25 (mm)							306507-000	E1-30x25
30	1-1/4" (inch)	52	68	28	75	63	22	3G1505-000	E1-30x1-1/4"
	32 (mm)							307505-000	E1-30x32
40	5/8" (inch)	36	83	32.5	64	51	22	3D1508-000	E1-40x5/8"
	16 (mm)							304508-000	E1-40x16
40	3/4" (inch)	40	83	32.5	67	54	22	3E1508-000	E1-40x3/4"
	20 (mm)							305508-000	E1-40x20
40	1" (inch)	45	83	32.5	75	59	22	3F1508-000	E1-40x1"
	25 (mm)							306508-000	E1-40x25
40	1-1/4" (inch)	52	83	32.5	75	63	22	3G1506-000	E1-40x1-1/4"
	32 (mm)							307506-000	E1-40x32
40	1-1/2" (inch)	60	83	32.5	90	73	22	3H1504-000	E1-40x1-1/2"
	40 (mm)							308504-000	E1-40x40
50	3/4" (inch)	40	98	35	67	54	30	3E1509-000	E1-50x3/4"
	20 (mm)							305509-000	E1-50x20
50	1" (inch)	45	98	35	80	59	30	3F1509-000	E1-50x1"
	25 (mm)							306509-000	E1-50x25
50	1-1/4" (inch)	52	98	35	80	63	30	3G1507-000	E1-50x1-1/4"
	32 (mm)							307507-000	E1-50x32
50	1-1/2" (inch)	60	98	35	90	73	30	3H1505-000	E1-50x1-1/2"
	40 (mm)							308505-000	E1-50x40
50	1-1/2" (inch)	68	98	35	135	73	30	3H1506-000	E1-50x1-1/2"-135L
	40 (mm)							308506-000	E1-50x40-135L
50	1-1/2" (inch)	68	98	35	135	108	30	3H1507-000	E1-50x1-1/2"-135L-L1
	40 (mm)							308507-000	E1-50x40-135L-L1
50	2" (inch)	70	98	35	100	83	30	3I1503-000	E1-50x2"
	50 (mm)							309503-000	E1-50x50

DIN 69880 STATIC HOLDERS



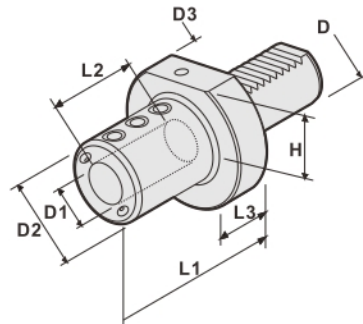
E2

- Boring Bar Holder
- External Coolant Supply

DIMENSIONS

D	D1	D2	D3	H1	L1	L2	L3	Code No.	Order No.
20	8	40	50	-	50	41	18	301501-000	E2-20x8
20	10	40	50	-	50	41	18	302501-000	E2-20x10
20	12	40	50	-	50	41	18	303501-000	E2-20x12
20	16	40	50	-	50	41	18	304501-000	E2-20x16
20	20	50	50	-	50	41	-	305501-000	E2-20x20
20	25	50	50	-	60	41	-	306501-000	E2-20x25
30	8	50	68	28	60	51	22	301502-000	E2-30x8
30	10	50	68	28	60	51	22	302502-000	E2-30x10
30	12	50	68	28	60	51	22	303502-000	E2-30x12
30	16	55	68	28	60	51	22	304502-000	E2-30x16
30	20	58	68	28	60	51	22	305502-000	E2-30x20
30	25	62	68	28	60	51	22	306502-000	E2-30x25
30	32	68	68	28	75	61	-	307501-000	E2-30x32
40	10	50	83	32.5	75	61	22	302503-000	E2-40x10
40	12	50	83	32.5	75	61	22	303503-000	E2-40x12
40	16	56	83	32.5	75	61	22	304503-000	E2-40x16
40	20	56	83	32.5	75	61	22	305503-000	E2-40x20
40	25	62	83	32.5	75	61	22	306503-000	E2-40x25
40	32	72	83	32.5	75	61	22	307502-000	E2-40x32
40	40	83	83	32.5	85	76	-	308501-000	E2-40x40
40	50	-	83	32.5	100	83	-	309504-000	E2-40x50-100
50	10	50	98	35	90	76	30	302504-000	E2-50x10
50	12	56	98	35	90	76	30	303504-000	E2-50x12
50	16	56	98	35	90	76	30	304504-000	E2-50x16
50	20	62	98	35	90	76	30	305504-000	E2-50x20
50	25	72	98	35	90	76	30	306504-000	E2-50x25
50	32	72	98	35	90	76	30	307503-000	E2-50x32
50	40	80	98	35	90	76	30	308502-000	E2-50x40
50	50	-	98	35	95	76	-	309501-000	E2-50x50
60	10	68	123	42.5	90	76	35	302505-000	E2-60x10
60	12	68	123	42.5	90	76	35	303505-000	E2-60x12
60	16	68	123	42.5	90	76	35	304505-000	E2-60x16
60	20	68	123	42.5	90	76	35	305505-000	E2-60x20
60	25	68	123	42.5	90	76	35	306505-000	E2-60x25
60	32	68	123	42.5	90	76	35	307504-000	E2-60x32
60	40	98	123	42.5	90	76	35	308503-000	E2-60x40
60	50	98	123	42.5	90	76	35	309502-000	E2-60x50

DIN 69880 STATIC HOLDERS



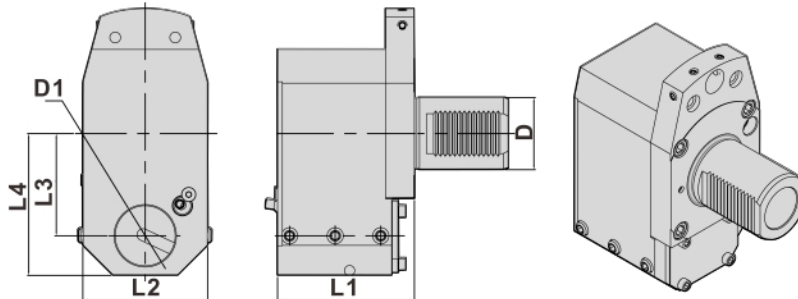
E2

- Boring Bar Holder
- External Coolant Supply

DIMENSIONS

D	D1	D2	D3	H1	L1	L2	L3	Code No.	Order No.
20	5/16"	40	50	-	50	41	18	3A1501-000	E2-20x5/16"
20	3/8"	40	50	-	50	41	18	3B1501-000	E2-20x3/8"
20	1/2"	40	50	-	50	41	18	3C1501-000	E2-20x1/2"
20	5/8"	40	50	-	50	41	18	3D1501-000	E2-20x5/8"
20	3/4"	50	50	-	50	41	-	3E1501-000	E2-20x3/4"
20	1"	50	50	-	60	41	-	3F1501-000	E2-20x1"
30	5/16"	50	68	28	60	51	22	3A1502-000	E2-30x5/16"
30	3/8"	50	68	28	60	51	22	3B1502-000	E2-30x3/8"
30	1/2"	50	68	28	60	51	22	3C1502-000	E2-30x1/2"
30	5/8"	55	68	28	60	51	22	3D1502-000	E2-30x5/8"
30	3/4"	58	68	28	60	51	22	3E1502-000	E2-30x3/4"
30	1"	62	68	28	60	51	22	3F1502-000	E2-30x1"
30	1-1/4"	68	68	28	75	61	-	3G1502-000	E2-30x1-1/4"
40	3/8"	50	83	32.5	75	61	22	3B1503-000	E2-40x3/8"
40	1/2"	50	83	32.5	75	61	22	3C1503-000	E2-40x1/2"
40	5/8"	56	83	32.5	75	61	22	3D1503-000	E2-40x5/8"
40	3/4"	56	83	32.5	75	61	22	3E1503-000	E2-40x3/4"
40	1"	62	83	32.5	75	61	22	3F1503-000	E2-40x1"
40	1-1/4"	72	83	32.5	75	61	22	3G1503-000	E2-40x1-1/4"
40	1-1/2"	83	83	32.5	85	76	-	3H1503-000	E2-40x1-1/2"
40	2"	-	83	32.5	100	83	-	3I1504-000	E2-40x2"-100
50	3/8"	50	98	35	90	76	30	3B1504-000	E2-50x3/8"
50	1/2"	56	98	35	90	76	30	3C1504-000	E2-50x1/2"
50	5/8"	56	98	35	90	76	30	3D1504-000	E2-50x5/8"
50	3/4"	62	98	35	90	76	30	3E1504-000	E2-50x3/4"
50	1"	72	98	35	90	76	30	3F1504-000	E2-50x1"
50	1-1/4"	72	98	35	90	76	30	3G1504-000	E2-50x1-1/4"
50	1-1/2"	80	98	35	90	76	30	3H1504-000	E2-50x1-1/2"
50	2"	-	98	35	95	76	-	3I1504-000	E2-50x2"
60	3/8"	68	123	42.5	90	76	35	3B1505-000	E2-60x3/8"
60	1/2"	68	123	42.5	90	76	35	3C1505-000	E2-60x1/2"
60	5/8"	68	123	42.5	90	76	35	3D1505-000	E2-60x5/8"
60	3/4"	68	123	42.5	90	76	35	3E1505-000	E2-60x3/4"
60	1"	68	123	42.5	90	76	35	3F1505-000	E2-60x1"
60	1-1/4"	68	123	42.5	90	76	35	3G1505-000	E2-60x1-1/4"
60	1-1/2"	98	123	42.5	90	76	35	3H1505-000	E2-50x1-1/2"
60	2"	98	123	42.5	90	76	35	3I1502-000	E2-60x2"

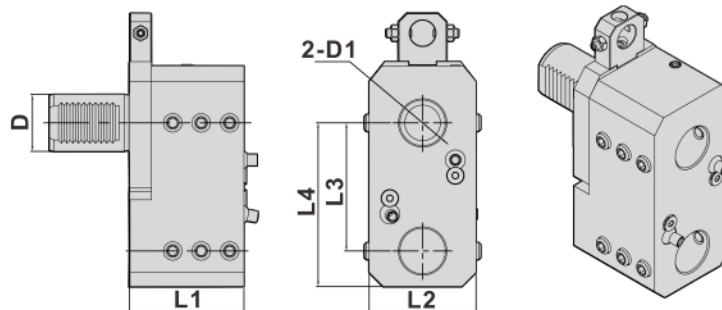
DIN 69880 STATIC HOLDERS



DIMENSIONS

● External coolant supply

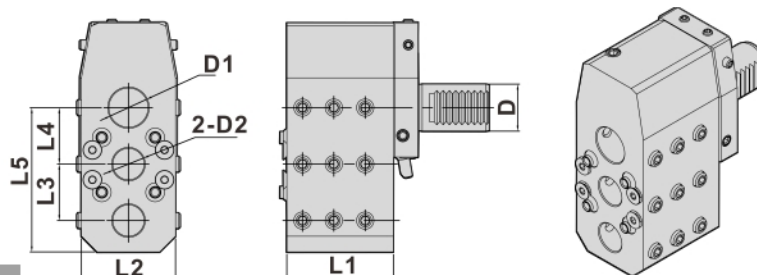
D DIN 69880	D1	L1	L2	L3	L4	Code No.	Order No.
50	2" (inch)	95	86	80	118	3I1509-000	E2-50xB2"-80
	50 (mm)					309509-000	E2-50xB50-80
60	2" (inch)	114	104	85	118	3I1513-000	E2-60xB2"-85
	50 (mm)					309513-000	E2-60xB50-85



DIMENSIONS

● External , internal coolant supply

D DIN 69880	D1	L1	L2	L3	L4	Code No.	Order No.
30	1" (inch)	65	60	35	56.5	3F1512-000	E2-30-B1"x2 -35
	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
	32 (mm)					307512-000	E2-40-B32x2-90-L
40	1-1/2" (inch)	85	80	65	91.5	3H1508-000	E2-40-B1-1/2"x2-65
	40 (mm)					308508-000	E2-40-B40x2-65
50	2" (inch)	96	86	80	118	3I1510-000	E2-50-B2"x2-80
	50 (mm)					309510-000	E2-50-B50x2-80
60	2" (inch)	100	105	80	117	3I1508-000	E2-60-B2"x2-80
	50 (mm)					309511-000	E2-60-B50x2-80

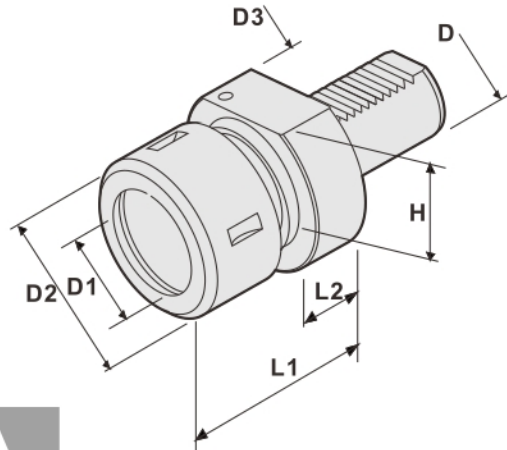


DIMENSIONS

● External , internal coolant supply

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

DIN 69880 STATIC HOLDERS

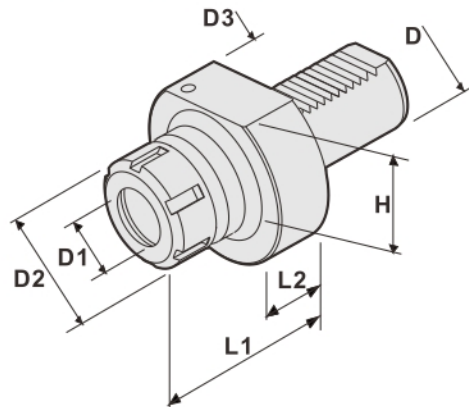


E3

- For Collet DIN 6388
- External Coolant Supply

DIMENSIONS

D	D1	D2	D3	H	L1	L2	Code No.	Order No.
30	2-25	60	68	28	75	22	630001-000	E3-30-OZ25
40	2-25	60	83	32.5	75	22	640001-000	E3-40-OZ25
40	4-32	78	83	32.5	90	22	640002-000	E3-40-OZ32
50	2-25	60	98	35	75	30	650001-000	E3-50-OZ25
50	4-32	78	98	35	90	30	650002-000	E3-50-OZ32



E4

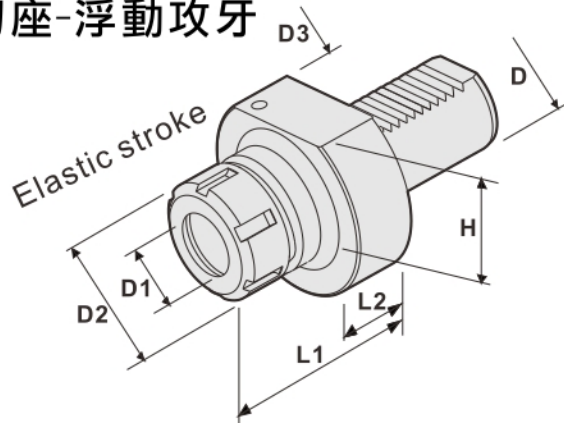
- For Collet DIN 6499
- External Coolant Supply
- Internal Coolant Supply **A**

DIMENSIONS

D	D1	D2	D3	H	L1	L2	Code No.	Order No.
20	1-16	42	50	-	50	18	620101-000	E4-20-ER25
							620101A000	E4-20-ER25-A
30	1-16	42	68	28	53	22	630101-000	E4-30-ER25
							630101A000	E4-30-ER25-A
30	2-20	50	68	28	57	22	630102-000	E4-30-ER32
							630102A000	E4-30-ER32-A
40	1-16	42	83	32.5	62	22	640101-000	E4-40-ER25
							640101A000	E4-40-ER25-A
40	2-20	50	83	32.5	62	22	640102-000	E4-40-ER32
							640102A000	E4-40-ER32-A
40	3-26	63	83	32.5	75	22	640103-000	E4-40-ER40
							640103A000	E4-40-ER40-A
50	3-26	63	98	35	75	30	650101-000	E4-50-ER40
							650101A000	E4-50-ER40-A
60	3-26	63	123	42.5	75	30	660101-000	E4-60-ER40
							660101A000	E4-60-ER40-A
60	10-34	78	123	42.5	75	30	660102-000	E4-60-ER50
							660102A000	E4-60-ER50-A

DIN 69880 STATIC HOLDERS

VDI 攻牙刀座-浮動攻牙



TAPPER

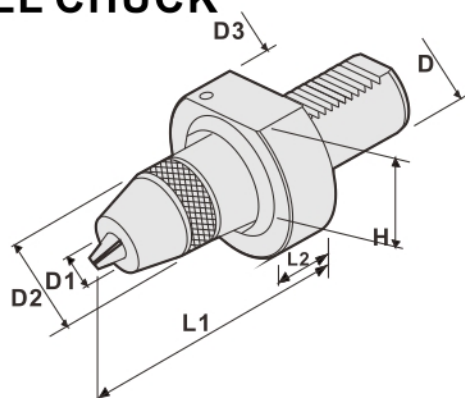
- For Collet DIN 6499
- External Coolant Supply

DIMENSIONS

D	D1	D2	D3	H	L1	L2	Code No.	Order No.
20	1-13	34	50	-	60	18	TAP201-000	TAP-20-ER20
30	1-16	42	68	28	68	22	TAP301-000	TAP-30-ER25
40	1-16	42	83	32.5	73	22	TAP401-000	TAP-40-ER25
50	2-20	50	98	35	83	30	TAP501-000	TAP-50-ER32
60	2-20	50	123	42.5	85	30	TAP601-000	TAP-60-ER32

KEYLESS DRILL CHUCK

鑽夾頭



KEYLESS DRILL CHUCK

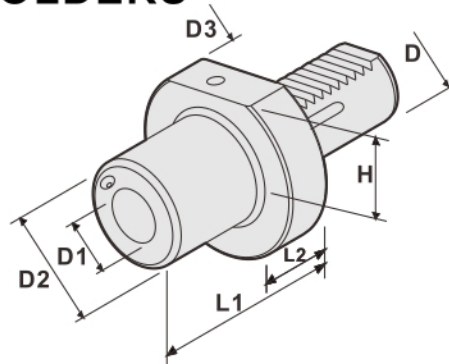
- External Coolant Supply

DIMENSIONS

D	D1	D2	D3	H	L1	L2	Code No.	Order No.
16	1-8	35	40	18	62	13	816081-000	CHUCK-16-08
30	1-13	51	68	28	85	22	830131-000	CHUCK-30-13
40	1-13	51	83	32.5	85	22	840131-000	CHUCK-40-13
40	3-16	58	83	32.5	102	22	840161-000	CHUCK-40-16
50	1-13	51	98	35	85	30	850131-000	CHUCK-50-13
50	3-16	58	98	35	90	30	850161-000	CHUCK-50-16
60	1-13	51	123	42.5	85	25	860131-000	CHUCK-60-13
60	3-16	58	123	42.5	90	25	860161-000	CHUCK-60-16

DIN 69880 STATIC HOLDERS

莫氏鑽頭



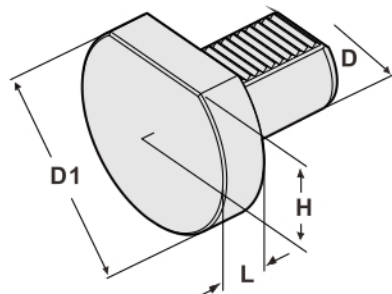
DIMENSIONS

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

D	D1	D2	D3	H	L1	L2	Code No.	Order No.
20	MT1	-	50	-	23	-	820MT1-000	F20-MT1
30	MT1	52	68	28	27	22	830MT1-000	F30-MT1
30	MT2	58	68	28	43	22	830MT2-000	F30-MT2
30	MT3	64	68	28	66	22	830MT3-000	F30-MT3
40	MT1	55	83	32.5	36	22	840MT1-000	F40-MT1
40	MT2	66	83	32.5	43	22	840MT2-000	F40-MT2
40	MT3	72	83	32.5	58	22	840MT3-000	F40-MT3
40	MT4	72	83	32.5	78	22	840MT4-000	F40-MT4
50	MT1	55	98	35	36	30	850MT1-000	F50-MT1
50	MT2	55	98	35	36	30	850MT2-000	F50-MT2
50	MT3	60	98	35	44	30	850MT3-000	F50-MT3
50	MT4	70	98	35	71	30	850MT4-000	F50-MT4
60	MT3	58	123	42.5	36	30	860MT3-000	F60-MT3
60	MT4	68	123	42.5	50	30	860MT4-000	F60-MT4

PLUG

保孔蓋

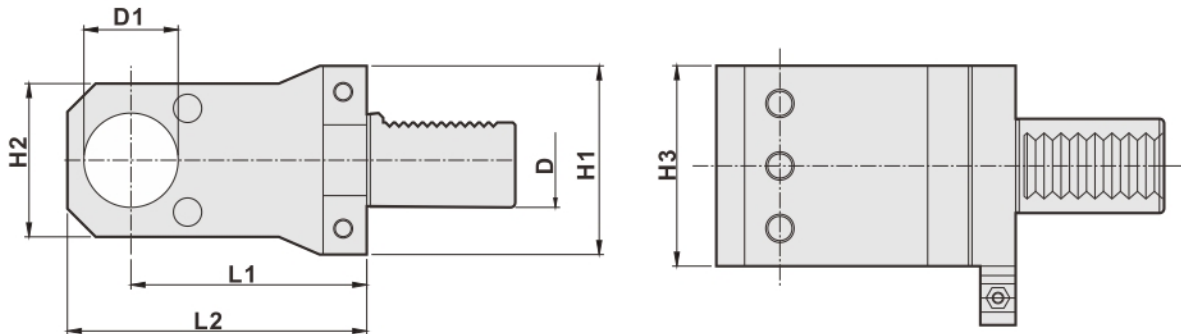


DIMENSIONS

- Made From Plastic
- Made From Metal

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

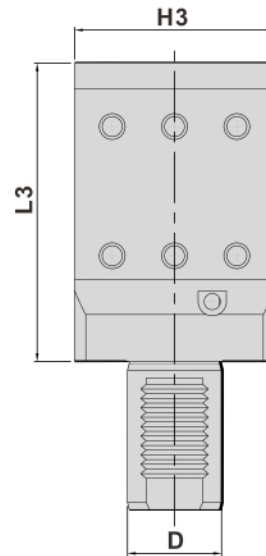
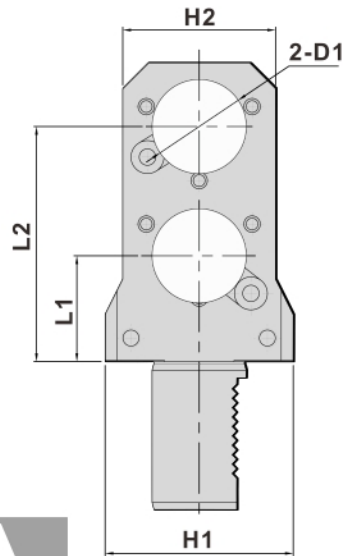
DIN 69880 AXIAL STATIC HOLDERS



DIMENSIONS

D DIN 69880	D1	H1	H2	H3	L1	L2	Code No.	Order No.
20	1" (inch)	-	50	50	70	90	3F1515-000	T1-20-1"-70
	25 (mm)						306515-000	T1-20-25-70
30	1-1/4" (inch)	65	52	62	65	90	3G1521-000	T1-30-1-1/4"-65
	32 (mm)						307521-000	T1-30-32 -65
30	1-1/4" (inch)	65	52	62	85	108	3G1522-000	T1-30-1-1/4"-85
	32 (mm)						307522-000	T1-30-32-85
30	1-1/4" (inch)	65	52	62	100	123	3G1523-000	T1-30-1-1/4"-100
	32 (mm)						307523-000	T1-30-32-100
30	1-1/4" (inch)	65	52	62	120	143	3G1524-000	T1-30-1-1/4"-120
	32 (mm)						307524-000	T1-30-32 -120
30	1-1/2" (inch)	-	65	85	85	112	3H1509-000	T1-30-1-1/2"-85
	40 (mm)						308509-000	T1-30-40-85
30	2" (inch)	-	80	85	85	123	3I1514-000	T1-30-2"-85
	50 (mm)						309514-000	T1-30-50-85
40	1-1/4" (inch)	80	65	85	85	112	3G1508-000	T1-40-1-1/4"-85
	32 (mm)						307508-000	T1-40-32-85
40	1-1/2" (inch)	80	65	85	85	112	3H1515-000	T1-40-1-1/2"-85
	40 (mm)						308515-000	T1-40-40-85
40	1-1/2" (inch)	80	65	85	100	127	3H1516-000	T1-40-1-1/2"-100
	40 (mm)						308516-000	T1-40-40-100
40	1-1/2" (inch)	80	65	85	120	147	3H1520-000	T1-40-1-1/2"-120
	40 (mm)						308520-000	T1-40-40-120
40	-	80	70	130	100	127	-	-
	40 (mm)						308521-000	T1-40-40-100-130
40	1-1/2" (inch)	80	65	85	140	167	3H1518-000	T1-40-1-1/2"-140
	40 (mm)						308518-000	T1-40-40-140
50	1-1/2" (inch)	90	80	96	100	137	3H1523-000	T1-50-1-1/2"-100
	40 (mm)						308523-000	T1-50-40-100
50	2" (inch)	90	80	96	100	137	3I1506-000	T1-50-2"-100
	50 (mm)						309506-000	T1-50-50-100
50	2" (inch)	90	82	96	110	147	3I1515-000	T1-50-2"-110
	50 (mm)						309515-000	T1-50-50-110
50	2-1/2" (inch)	98	104	96	110	152	3J1503-000	T1-50-2-1/2"-110
	60 (mm)						310503-000	T1-50-60-110
60	2" (inch)	104	90	120	100	142	3I1507-000	T1-60-2"-100
	50 (mm)						309507-000	T1-60-50-100
60	2" (inch)	108	94	120	135	177	3I1511-000	T1-60-2"-135
	50 (mm)						309508-000	T1-60-50-135
60	2-1/2" (inch)	104	90	120	100	142	3J1502-000	T1-60-2-1/2"-100
	60 (mm)						310502-000	T1-60-60-100
60	2-1/2" (inch)	-	108	120	135	182	3J1501-000	T1-60-2-1/2"-135
	60 (mm)						310501-000	T1-60-60-135

DIN 69880 AXIAL STATIC HOLDERS

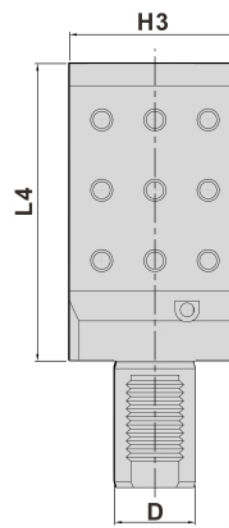
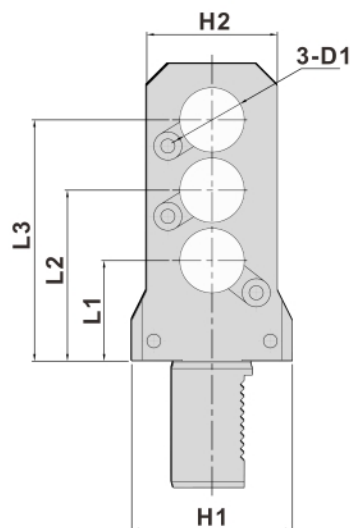


DIMENSIONS

● External coolant supply

D	D1	H1	H2	H3	L1	L2	L3	Code No.	Order No.
30	1" (inch)	-	65	62	80	113	133	3F1514-000	T1-30-2xB1"-113
	25 (mm)							306514-000	T1-30-2xB25-113
30	1" (inch)	-	65	62	85	137	158	3F1513-000	T1-30-2xB1"-137
	25 (mm)							306513-000	T1-30-2xB25-137
30	1-1/4" (inch)	-	65	62	55	100	128	3G1525-000	T1-30-2xB1-1/4"-100
	32 (mm)							307525-000	T1-30-2xB32-100
40	1" (inch)	80	65	85	85	120	146	3F1516-000	T1-40-2xB1"-120
	25 (mm)							306516-000	T1-40-2xB25-120
40	1-1/4" (inch)	80	65	85	47	90	112	3G1526-000	T1-40-2xB1-1/4"-90
	32 (mm)							307526-000	T1-40-2xB32-90
40	1-1/2" (inch)	80	65	85	45	100	127	3H1510-000	T1-40-2xB1-1/2"-100
	40 (mm)							308510-000	T1-40-2xB40-100

DIN 69880 AXIAL STATIC HOLDERS

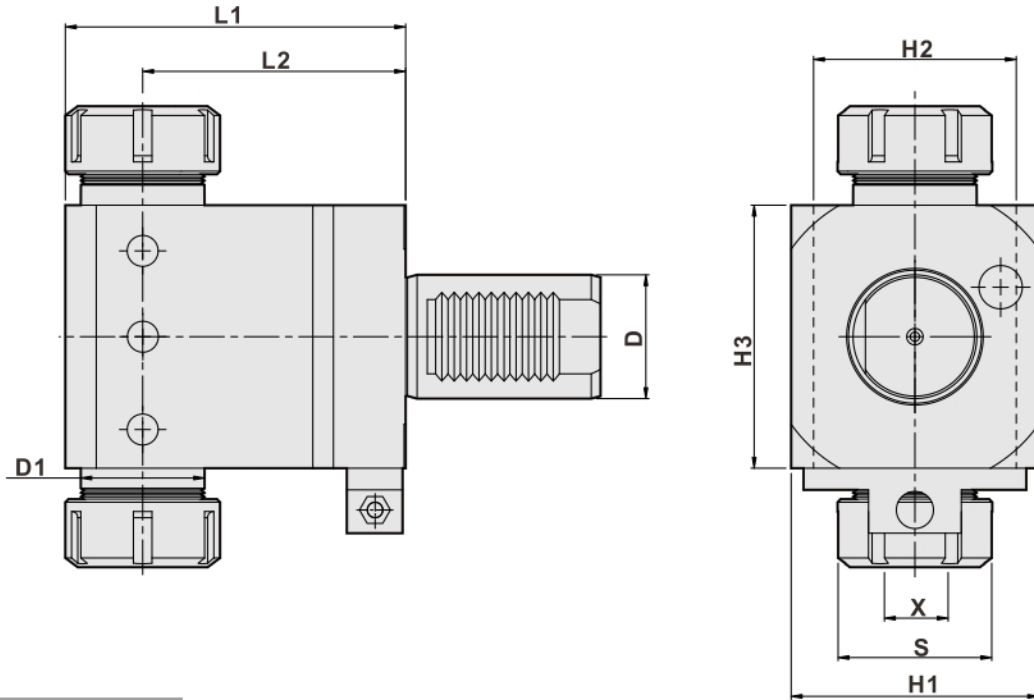


DIMENSIONS

● External coolant supply

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

DIN 69880 AXIAL STATIC HOLDERS



DIMENSIONS

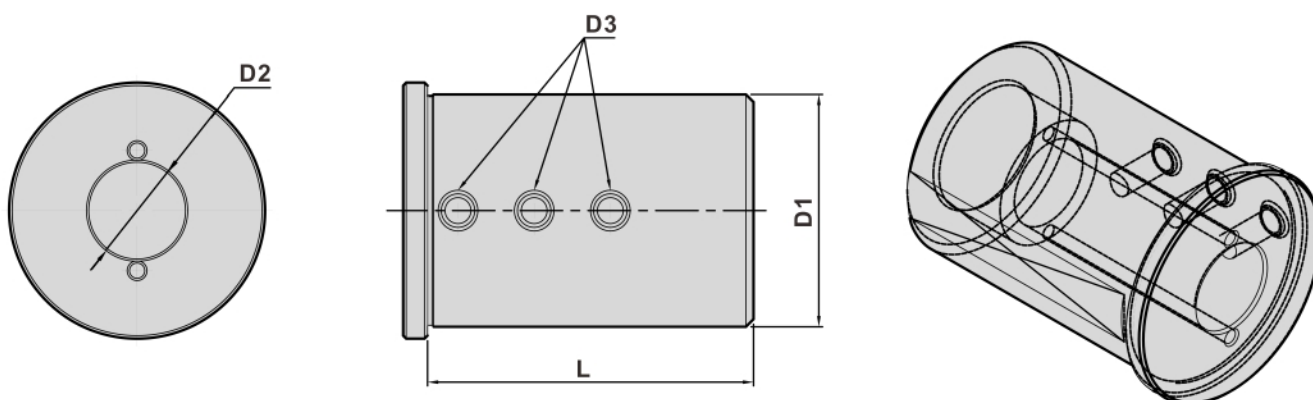
D DIN 69880	D1	X Capacity	S	H1	H2	H3	L1	L2	Code No.	Order No.
30	1-1/4" (inch)	1-16	42	65	52	62	65	90	3G1514-000	T1-30-1-1/4"-65-25x2
	32 (mm)	ER25							307514-000	T1-30-32-65-25x2
30	1-1/4" (inch)	1-16	42	65	52	62	85	108	3G1515-000	T1-30-1-1/4" -85-25x2
	32 (mm)	ER25							307515-000	T1-30-32-85-25x2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

REDUCING SLEEVES

固定刀座-刀套

RS-W

- For boring bar holder
- External coolant supply



DIMENSIONS

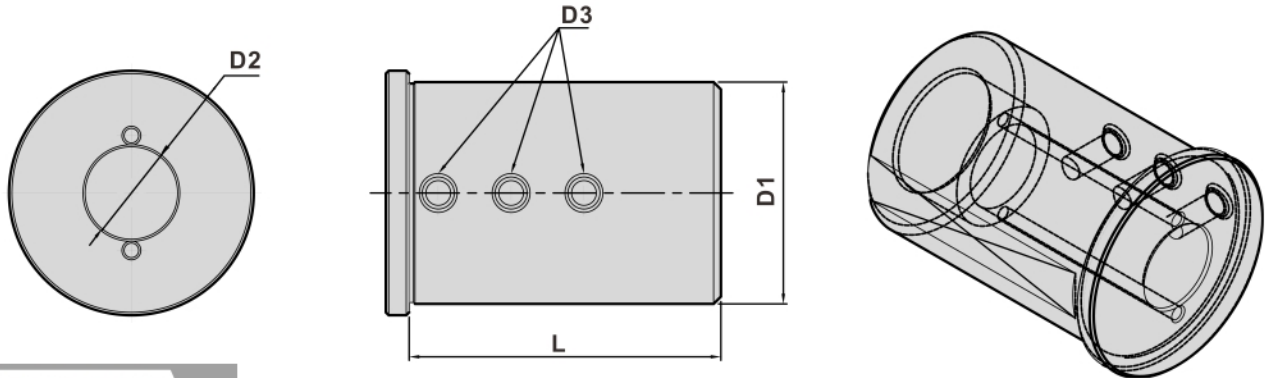
D1	D2	D3	L	Code No.	Order No.
20	6	Thread	45	A20061-000	E20-6
	8			A20081-000	E20-8
	10			A20101-000	E20-10
25	6	Thread	55	A25061-000	E25-6
	8			A25081-000	E25-8
	10			A25101-000	E25-10
	12			A25121-000	E25-12
	12			A25121-000	E25-12
32	6	Thread	60	A32061-000	E32-6
	8			A32081-000	E32-8
	10			A32101-000	E32-10
	12			A32121-000	E32-12
	12			A32121-000	E32-12
40	6	Thread	70	A40061-000	E40-6
	8			A40081-000	E40-8
	10			A40101-000	E40-10
	12			A40121-000	E40-12
	12			A40121-000	E40-12
50	8	Thread	85	A50081-000	E50-8
	10			A50101-000	E50-10
	12			A50121-000	E50-12
	16			A50161-000	E50-16
	20			A50201-000	E50-20
	25			A50251-000	E50-25
	25			A50251-000	E50-25
60	12	Thread	107	A60121-000	E60-12
	16			A60161-000	E60-16
	20			A60201-000	E60-20
	25			A60251-000	E60-25
	32			A60321-000	E60-32
	32			A60321-000	E60-32

REDUCING SLEEVES

固定刀座-刀套

RS-W

- For boring bar holder
- External coolant supply



DIMENSIONS

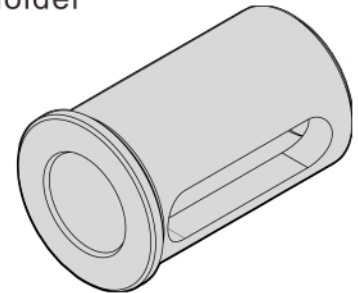
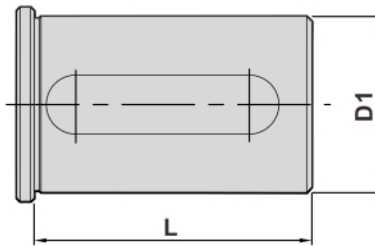
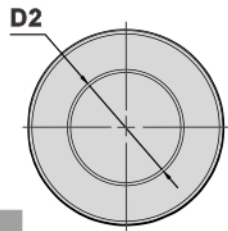
D1	D2	D3	L	Code No.	Order No.
3/4"	1/4"	Thread	45mm	AE1X11-000	E3/4"-1/4"
	5/16"			AE1A11-000	E3/4"-5/16"
	3/8"			AE1B11-000	E3/4"-3/8"
1"	1/4"	Thread	55mm	AF1X11-000	E1"-1/4"
	5/16"			AF1A11-000	E1"-5/16"
	3/8"			AF1B11-000	E1"-3/8"
	1/2"			AF1C11-000	E1"-1/2"
1-1/4"	1/4"	Thread	60mm	AG1X11-000	E1-1/4"-1/4"
	5/16"			AG1A11-000	E1-1/4"-5/16"
	3/8"			AG1B11-000	E1-1/4"-3/8"
	1/2"			AG1C11-000	E1-1/4"-1/2"
1-1/2"	1/4"	Thread	70mm	AH1X11-000	E1-1/2"-1/4"
	5/16"			AH1A11-000	E1-1/2"-5/16"
	3/8"			AH1B11-000	E1-1/2"-3/8"
	1/2"			AH1C11-000	E1-1/2"-1/2"
2"	5/16"	Thread	85mm	AI1A11-000	E2"-5/16"
	3/8"			AI1B11-000	E2"-3/8"
	1/2"			AI1C11-000	E2"-1/2"
	5/8"			AI1D11-000	E2"-5/8"
	3/4"			AI1E11-000	E2"-3/4"
	1"			AI1F11-000	E2"-1"
2-1/2"	1/2"	Thread	107mm	AJ1C11-000	E2-1/2"-1/2"
	5/8"			AJ1D11-000	E2-1/2"-5/8"
	3/4"			AJ1E11-000	E2-1/2"-3/4"
	1"			AJ1F11-000	E2-1/2"-1"
3"	1-1/4"	Thread	107mm	AJ1G11-000	E2-1/2"-1-1/4"
	1/2"			AL1C11-000	E3"-1/2"
	5/8"			AL1D11-000	E3"-5/8"
	3/4"			AL1E11-000	E3"-3/4"
	1"			AL1F11-000	E3"-1"
	1-1/4"			AL1G11-000	E3"-1-1/4"
	1-1/2"			AL1H11-000	E3"-1-1/2"

REDUCING SLEEVES

固定刀座-刀套

RS

• For Boring Bar Holder



DIMENSIONS

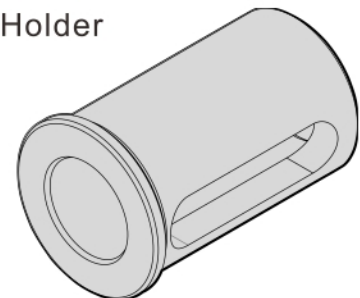
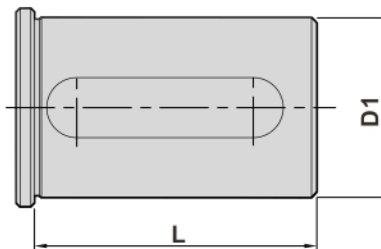
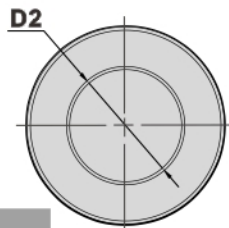
D	D2	L	Code No.	Order No.
20	12	50	A20122-000	E20-12
	16		A20162-000	E20-16
25	16	50	A25162-000	E25-16
	20		A25202-000	E25-20
32	16	60	A32162-000	E32-16
	20		A32202-000	E32-20
	25		A32252-000	E32-25
40	16	70	A40162-000	E40-16
	20		A40202-000	E40-20
	25		A40252-000	E40-25
	32		A40322-000	E40-32
50	32	85	A50322-000	E50-32
	40		A50402-000	E50-40
60	40	107	A60402-000	E60-40
	50		A60502-000	E60-50

REDUCING SLEEVES

固定刀座-刀套

RS

• For Boring Bar Holder



DIMENSIONS

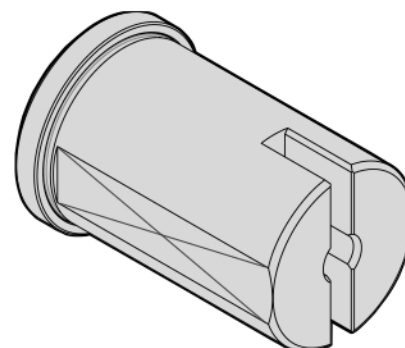
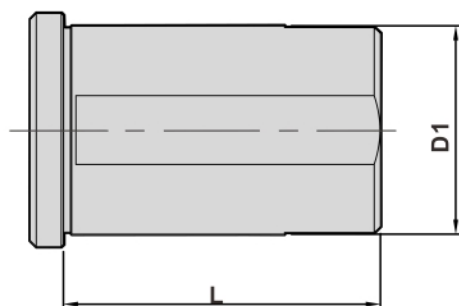
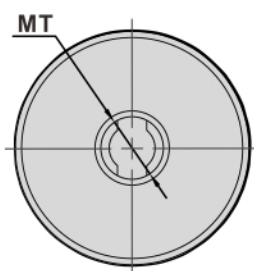
D	D2	L	Code No.	Order No.
3/4"	1/2"	50mm	AE1C12-000	E3/4"-1/2"
	5/8"		AE1D12-000	E3/4"-5/8"
1"	5/8"	50mm	AF1D12-000	E1"-5/8"
	3/4"		AF1E12-000	E1"-3/4"
1-1/4"	5/8"	60mm	AG1D12-000	E1-1/4"-5/8"
	3/4"		AG1E12-000	E1-1/4"-3/4"
	1"		AG1F12-000	E1-1/4"-1"
1-1/2"	5/8"	70mm	AH1D12-000	E1-1/2"-5/8"
	3/4"		AH1E12-000	E1-1/2"-3/4"
	1"		AH1F12-000	E1-1/2"-1"
	1-1/4"		AH1G12-000	E1-1/2"-1-1/4"
2"	1-1/4"	85mm	AI1G12-000	E2"-1-1/4"
	1-1/2"		AI1H12-000	E2"-1-1/2"
2-1/2"	1-1/2"	107mm	AJ1H12-000	E2-1/2"-1-1/2"
	2"		AJ1I12-000	E2-1/2"-2"
3"	2"	107mm	AK1I12-000	E3"-2"
	2-1/2"		AK1J12-000	E3"-2-1/2"

REDUCING SLEEVES

固定刀座-刀套

RS-MT

- Tool holders with morse taper according to DIN 228



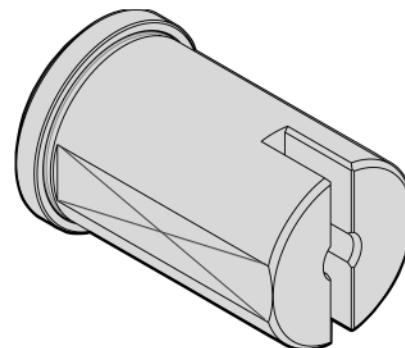
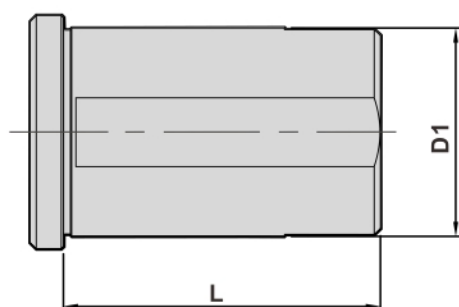
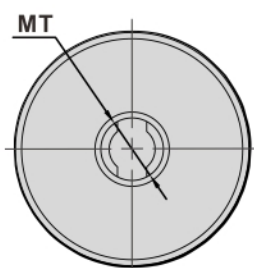
DIMENSIONS

D1	L	MT	Code No.	Order No.
25	50	MT1	A25MT1-000	E25-MT1
	50	MT2	A25MT2-000	E25-MT2
32	60	MT1	A32MT1-000	E32-MT1
	60	MT2	A32MT2-000	E32-MT2
	60	MT3	A32MT3-000	E32-MT3
40	70	MT1	A40MT1-000	E40-MT1
	70	MT2	A40MT2-000	E40-MT2
	70	MT3	A40MT3-000	E40-MT3
	70	MT4	A40MT4-000	E40-MT4
50	76	MT2	A50MT2-000	E50-MT2
	97	MT3	A50MT3-000	E50-MT3
	107	MT4	A50MT4-000	E50-MT4
	125	MT5	A50MT5-000	E50-MT5
60	76	MT2	A60MT2-000	E60-MT2
	97	MT3	A60MT3-000	E60-MT3
	107	MT4	A60MT4-000	E60-MT4
	125	MT5	A60MT5-000	E60-MT5

REDUCING SLEEVES 固定刀座-刀套

RS-MT

- Tool holders with morse taper according to DIN 228

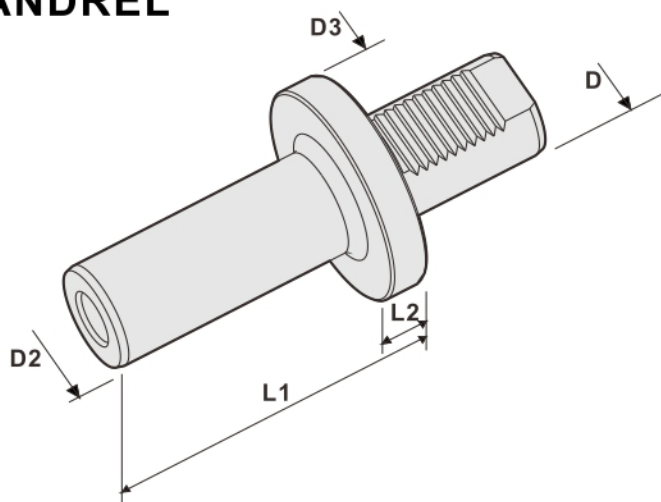


DIMENSIONS

D1	L	MT	Code No.	Order No.
1"	50mm	MT1	AF1MT1-000	E1"-MT1
	50mm	MT2	AF1MT2-000	E1"-MT2
1-1/4"	60mm	MT1	AG1MT1-000	E1-1/4"-MT1
	60mm	MT2	AG1MT2-000	E1-1/4"-MT2
	60mm	MT3	AG1MT3-000	E1-1/4"-MT3
1-1/2"	70mm	MT1	AH1MT1-000	E1-1/2"-MT1
	70mm	MT2	AH1MT2-000	E1-1/2"-MT2
	70mm	MT3	AH1MT3-000	E1-1/2"-MT3
	70mm	MT4	AH1MT4-000	E1-1/2"-MT4
2"	76mm	MT2	AI1MT2-000	E2"-MT2
	97mm	MT3	AI1MT3-000	E2"-MT3
	107mm	MT4	AI1MT4-000	E2"-MT4
	125mm	MT5	AI1MT5-000	E2"-MT5
3"	76mm	MT2	A76MT2-000	E3"-MT2
	97mm	MT3	A76MT3-000	E3"-MT3
	107mm	MT4	A76MT4-000	E3"-MT4
	125mm	MT5	A76MT5-000	E3"-MT5

DIN 69880 TEST MANDREL

校正棒

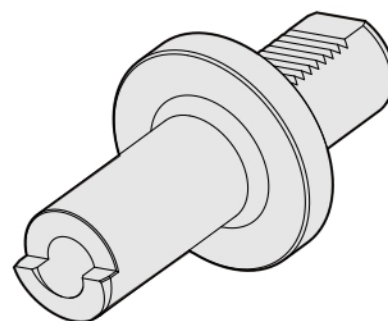
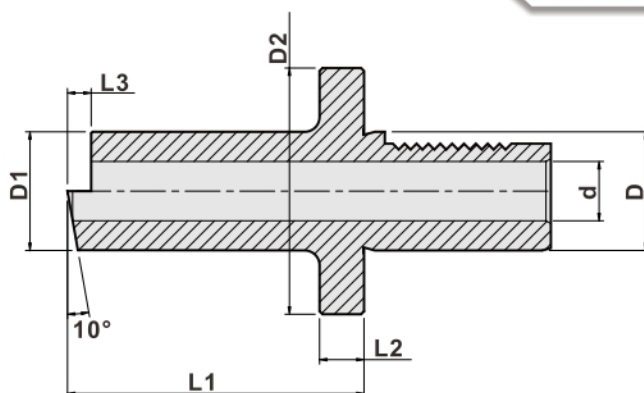


DIMENSIONS

D DIN 69880	D2	D3	L1	L2	Code No.	Order No.
30	30	68	115	15	TB1301-114	TB1-30-115
40	40	83	115	15	TB1401-114	TB1-40-115
40	40	83	150	15	TB1402-114	TB1-40-150
50	50	98	115	15	TB1501-114	TB1-50-115
50	50	98	150	15	TB1502-114	TB1-50-150
60	60	123	180	15	TB1601-114	TB1-60-180

DIN 69880 TEST MANDREL

校正棒

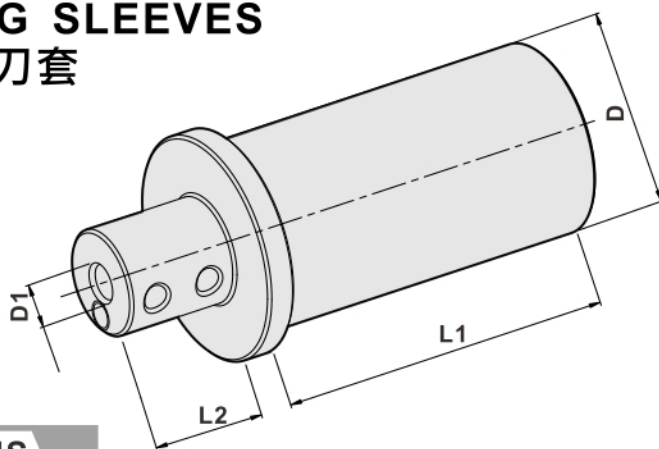


DIMENSIONS

D DIN 69880	d	D1	D2	L1	L2	L3	Code No.	Order No.
20	20	40	50	100	15	8	TB2201-114	TB2-20-100
30	20	40	68	100	15	8	TB2301-114	TB2-30-100
40	20	40	83	100	15	8	TB2401-114	TB2-40-100
50	20	40	98	100	15	8	TB2501-114	TB2-50-100
60	20	40	123	100	15	8	TB2601-114	TB2-60-100

REDUCING SLEEVES

固定刀座-刀套



RS-WE

- For Boring Bar holder
- External Coolant Supply

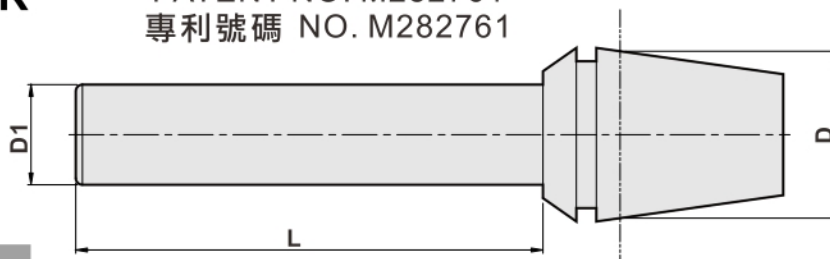
DIMENSIONS

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	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
		70mm	20mm	1/4"	AH1X15-000	WE1-1/2"-1/4"
				6	A40065-000	WE40-6
40(1-1/2")	mm(inch)	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

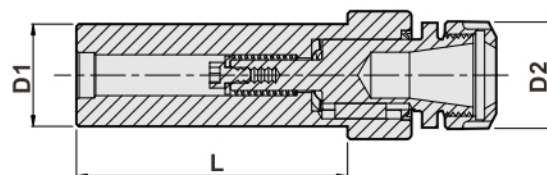
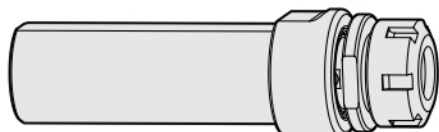


DIMENSIONS

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

WER TAPPING CHUCKS

側固式直柄攻牙刀柄

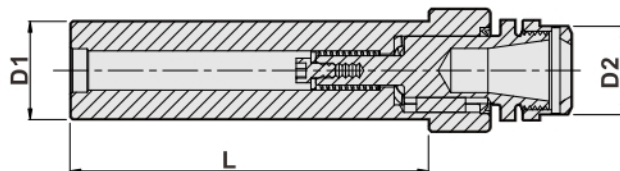
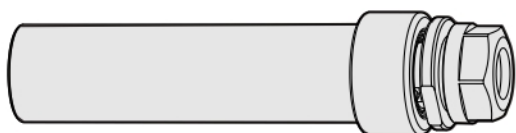


DIMENSIONS

X Capacity	D1	L	D2	Code No.	Order No.
ER16	20	80	30	TSC20B-000	SL20-WER16-80
ER20	20	80	35	TSC20C-000	SL20-WER20-80
ER16	25	80	30	TSC25B-000	SL25-WER16-80
ER20	25	80	35	TSC25C-000	SL25-WER20-80
ER25	25	80	42	TSC25D-000	SL25-WER25-80
ER25	32	80	42	TSC32D-000	SL32-WER25-80
ER32	32	80	50	TSC32E-000	SL32-WER32-80

WER TAPPING CHUCKS

直柄攻牙刀柄

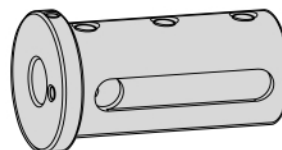
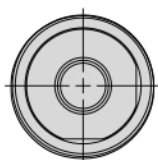
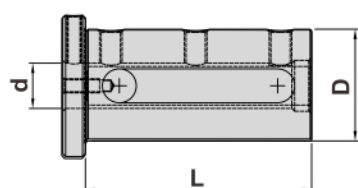


DIMENSIONS

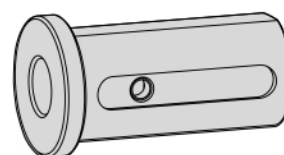
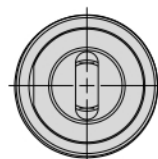
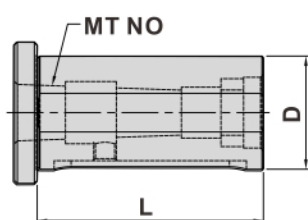
X Capacity	D1	L	D2	Code No.	Order No.
ER16	20	130	30	TBC20B-000	BC20-WER16-130
ER20	20	130	35	TBC20C-000	BC20-WER20-130
ER16	25	130	30	TBC25B-000	BC25-WER16-130
ER20	25	130	35	TBC25C-000	BC25-WER20-130
ER25	25	130	42	TBC25D-000	BC25-WER25-130
ER25	32	130	42	TBC32C-000	BC32-WER25-130
ER32	32	130	50	TBC32D-000	BC32-WER32-130

REDUCING SLEEVES

刀套



V1



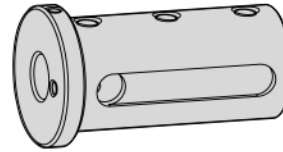
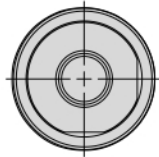
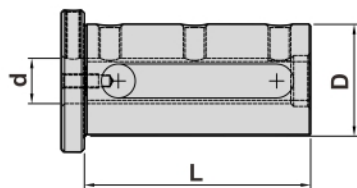
V2

DIMENSIONS

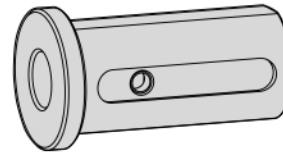
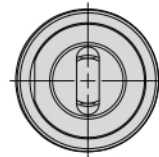
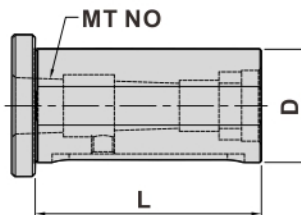
D	d	L	V	MT NO	Code No.	Order No.	
32	8	80	V1		V32081-000	V32-8	
	10				V32101-000	V32-10	
	12				V32121-000	V32-12	
	16				V32161-000	V32-16	
	20				V32201-000	V32-20	
	25				V32251-000	V32-25	
			V2	1	V32MT1-000	V32-MTA1	
	2			V32MT2-000	V32-MTA2		
3	V32MT3-000			V32-MTA3			
40	8		80	V1		V40081-000	V40-8
	10					V40101-000	V40-10
	12					V40121-000	V40-12
	16					V40161-000	V40-16
	20					V40201-000	V40-20
	25					V40251-000	V40-25
	32					V40321-000	V40-32
		V2		1	V40MT1-000	V40-MTA1	
2	V40MT2-000			V40-MTA2			
3	V40MT3-000			V40-MTA3			
4	V40MT4-000			V40-MTA4			
50	8	80		V1		V50081-000	V50-8
	10		V50101-000			V50-10	
	12		V50121-000			V50-12	
	16		V50161-000			V50-16	
	20		V50201-000			V50-20	
	25		V50251-000			V50-25	
	32		V50321-000			V50-32	
	40		V50401-000			V50-40	
			V2	1	V50MT1-000	V50-MTA1	
	2			V50MT2-000	V50-MTA2		
	3			V50MT3-000	V50-MTA3		
	4			V50MT4-000	V50-MTA4		

REDUCING SLEEVES

刀套



V1



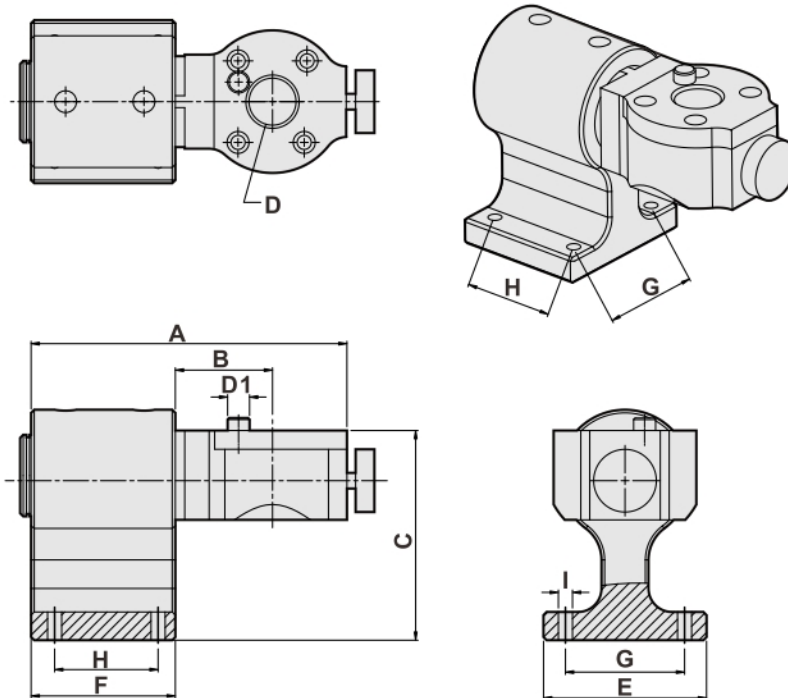
V2

DIMENSIONS

D	d	L	V	MT NO	Code No.	Order No.
1-1/4"	5/16"	80mm	V1		VG1A11-000	V1-1/4"-5/16"
	3/8"				VG1B11-000	V1-1/4"-3/8"
	1/2"				VG1C11-000	V1-1/4"-1/2"
	5/8"				VG1D11-000	V1-1/4"-5/8"
	3/4"				VG1E11-000	V1-1/4"-3/4"
	1"				VG1F11-000	V1-1/4"-1"
			V2	1	VG1MT1-000	V1-1/4"-MTA1
				2	VG1MT2-000	V1-1/4"-MTA2
				3	VG1MT3-000	V1-1/4"-MTA3
			V1		VH1A11-000	V1-1/2"-5/16"
1-1/2"	5/16"				VH1B11-000	V1-1/2"-3/8"
	3/8"				VH1C11-000	V1-1/2"-1/2"
	1/2"				VH1D11-000	V1-1/2"-5/8"
	5/8"				VH1E11-000	V1-1/2"-3/4"
	3/4"				VH1F11-000	V1-1/2"-1"
	1"				VH1G11-000	V1-1/2"-1-1/4"
	1-1/4"				VH1MT1-000	V1-1/2"-MTA1
			V2	1	VH1MT2-000	V1-1/2"-MTA2
				2	VH1MT3-000	V1-1/2"-MTA3
				3	VH1MT4-000	V1-1/2"-MTA4
				4		
2"	5/16"		V1		VI1A11-000	V2"-5/16"
	3/8"				VI1B11-000	V2"-3/8"
	1/2"				VI1C11-000	V2"-1/2"
	5/8"				VI1D11-000	V2"-5/8"
	3/4"				VI1E11-000	V2"-3/4"
	1"				VI1F11-000	V2"-1"
	1-1/4"				VI1G11-000	V2"-1-1/4"
	1-1/2"				VI1H11-000	V2"-1-1/2"
			V2	1	VI1MT1-000	V2"-MTA1
				2	VI1MT2-000	V2"-MTA2
				3	VI1MT3-000	V2"-MTA3
				4	VI1MT4-000	V2"-MTA4

TOOL LOCKING FIXTURE

鎖刀器

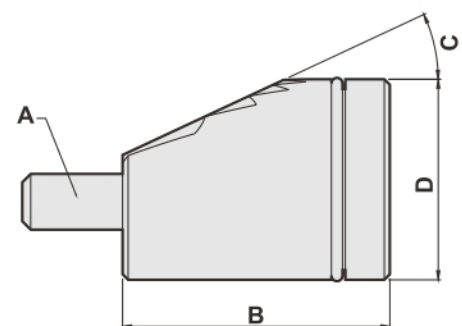
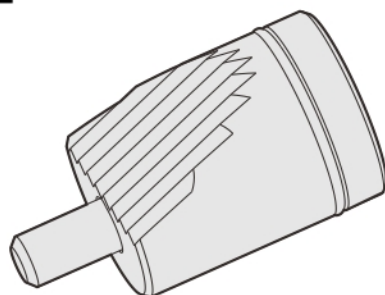


DIMENSIONS

D	D1	A	B	C	E	F	G	H	I	Code No.	Order No.
30	14	201	62	134	104	92	76	66	9	VDI30A-000	VDI-30/L
40	14	201	62	134	104	92	76	66	9	VDI40A-000	VDI-40/L

VDI WEDGE

緊迫塊



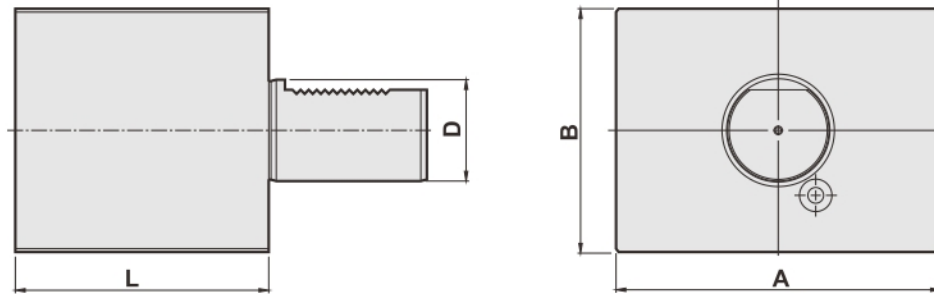
DIMENSIONS

● 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

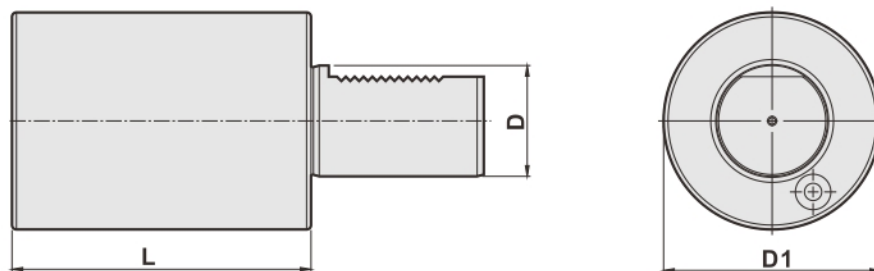


DIMENSIONS

D DIN 69880	A	B	L	Code No.	Order No.
20	100	60	65	0A1200-125	A1-20-65
30	130	76	85	0A1300-125	A1-30-85
40	151	96	100	0A1400-125	A1-40-100
50	160	120	125	0A1500-125	A1-50-125
60	165	125	160	0A1600-125	A1-60-160

VDI MATERIAL

VDI 素材

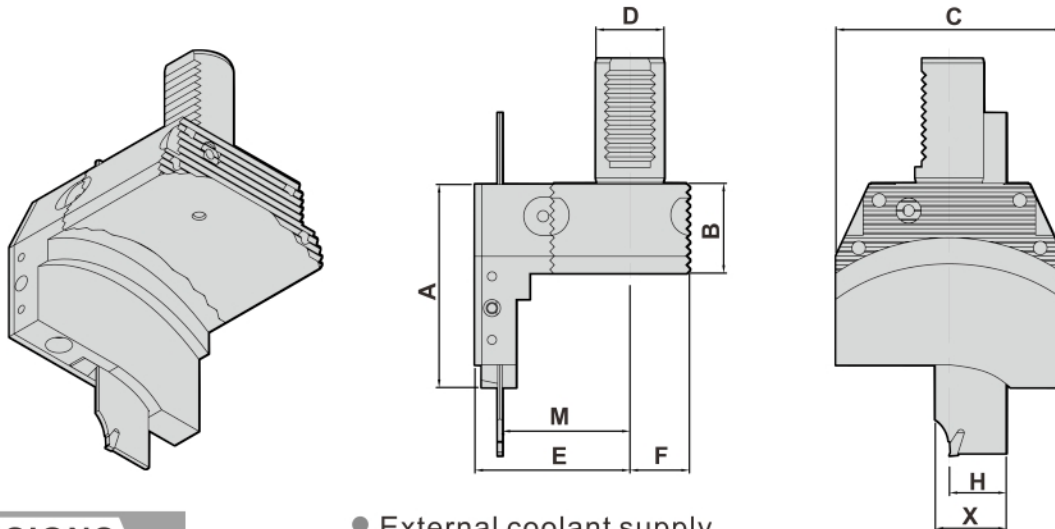


DIMENSIONS

D DIN 69880	D1	L	Code No.	Order No.
20	50	70	0A2200-125	A2-20-70
30	68	100	0A2300-125	A2-30-100
30	68	240	0A2301-125	A2-30-240
40	83	120	0A2400-125	A2-40-120
40	83	320	0A2401-125	A2-40-320
50	98	135	0A2500-125	A2-50-135
50	98	400	0A2501-125	A2-50-400
60	123	150	0A2600-125	A2-60-150
60	123	480	0A2601-125	A2-60-480

CUTTING HOLDER

切斷刀座-第一軸刀尖朝上



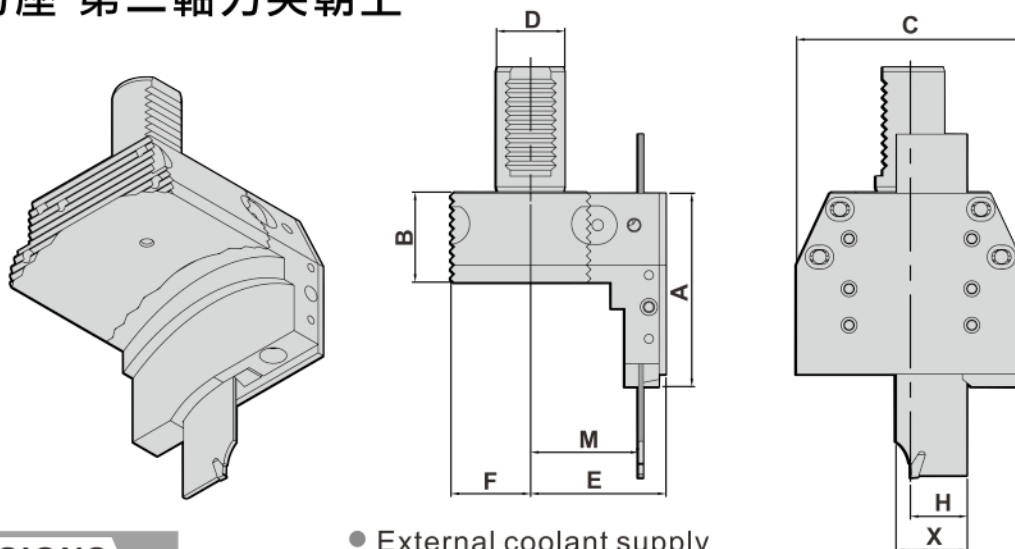
DIMENSIONS

● External coolant supply

D DIN 69880	A	B	C	E	F	H	X	M	Code No.	Order No.
30	85.5	39.5	100	68.3	26.2	20 (mm)	26	56.3	705501-000	V30-1ST-R20-L-CUTTER
40	85.5	39.5	100	68.3	26.2	25 (mm)	26	56.3	706501-000	V40-1ST-R25-L-CUTTER

CUTTING HOLDER

切斷刀座-第二軸刀尖朝上



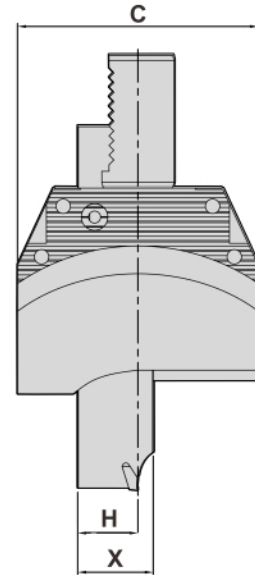
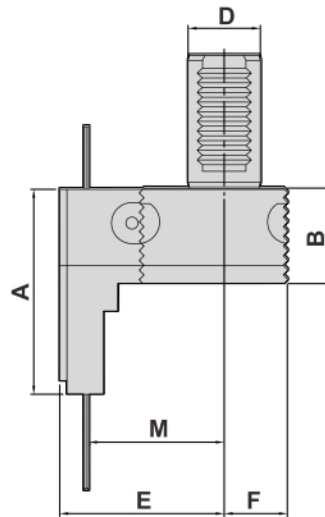
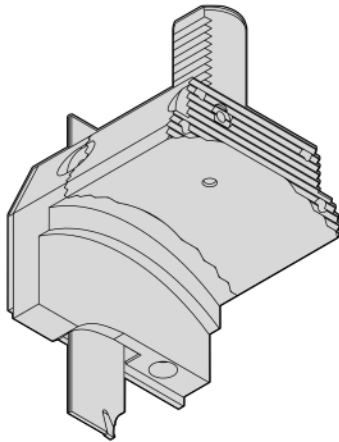
DIMENSIONS

● External coolant supply

D DIN 69880	A	B	C	E	F	H	X	M	Code No.	Order No.
30	85.5	39.5	100	59.5	35	20 (mm)	26	47.5	705502-000	V30-2HD-R20-R-CUTTER
40	85.5	39.5	100	59.5	35	25 (mm)	26	47.5	706502-000	V40-2HD-R25-R-CUTTER

CUTTING HOLDER

切斷刀座-第一軸刀尖朝下

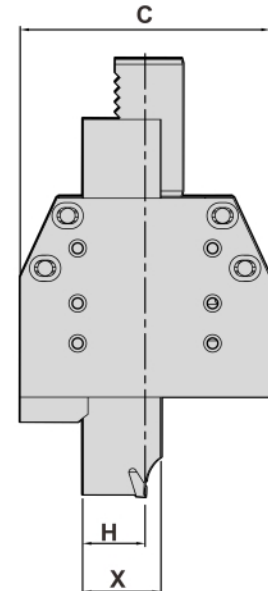
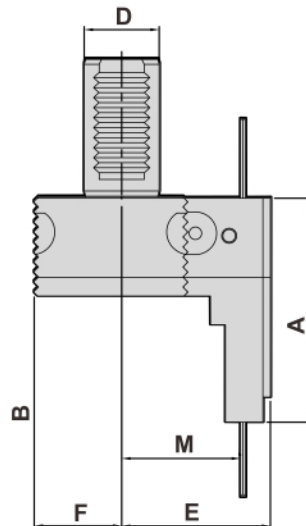
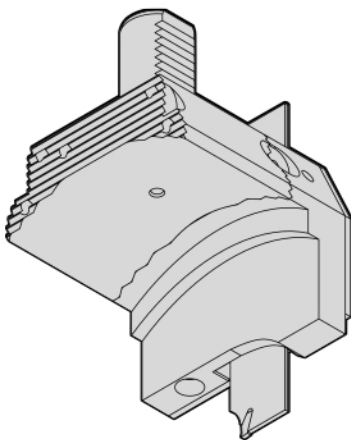


DIMENSIONS

D DIN 69880	A	B	C	E	F	H	X	M	Code No.	Order No.
30	85.5	39.5	100	68.3	26.2	20 (mm)	26	56.3	705503-000	V30-1ST-R20-R-CUTTER
40	85.5	39.5	100	68.3	26.2	25 (mm)	26	56.3	706503-000	V40-1ST-R25-R-CUTTER

CUTTING HOLDER

切斷刀座-第二軸刀尖朝下

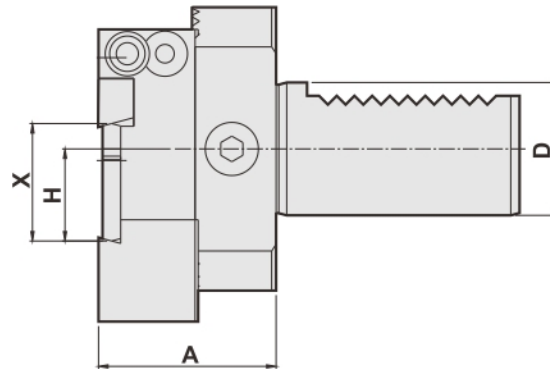
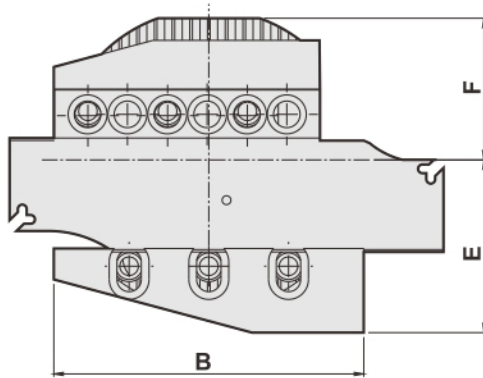


DIMENSIONS

D DIN 69880	A	B	C	E	F	H	X	M	Code No.	Order No.
30	85.5	39.5	100	59.5	35	20 (mm)	26	47.5	705504-000	V30-2HD-R20-L-CUTTER
40	85.5	39.5	100	59.5	35	25 (mm)	26	47.5	706504-000	V40-2HD-R25-L-CUTTER

CUTTING HOLDER

切斷刀座



- External coolant supply

DIMENSIONS

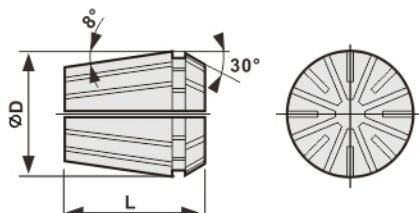
D DIN 69880	A	B	E	F	H	X	Code No.	Order No.
30	40.1	70	39	32	20	26	705506-000	B-30-20-CUTTER

ER SPRING COLLET CHUCK SYSTEM

ER 筒夾

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

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



Collet Dimensions

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

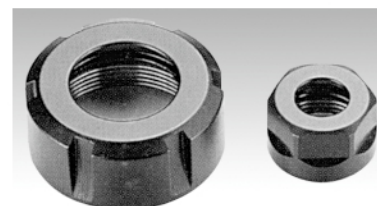
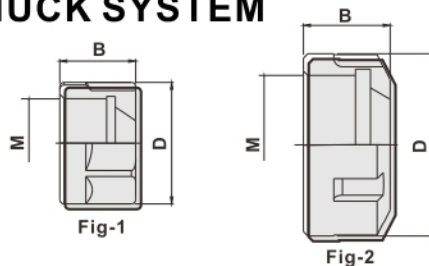
DIMENSIONS

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

ER SPRING COLLET CHUCK SYSTEM

CLAMPING NUT

ER 螺帽

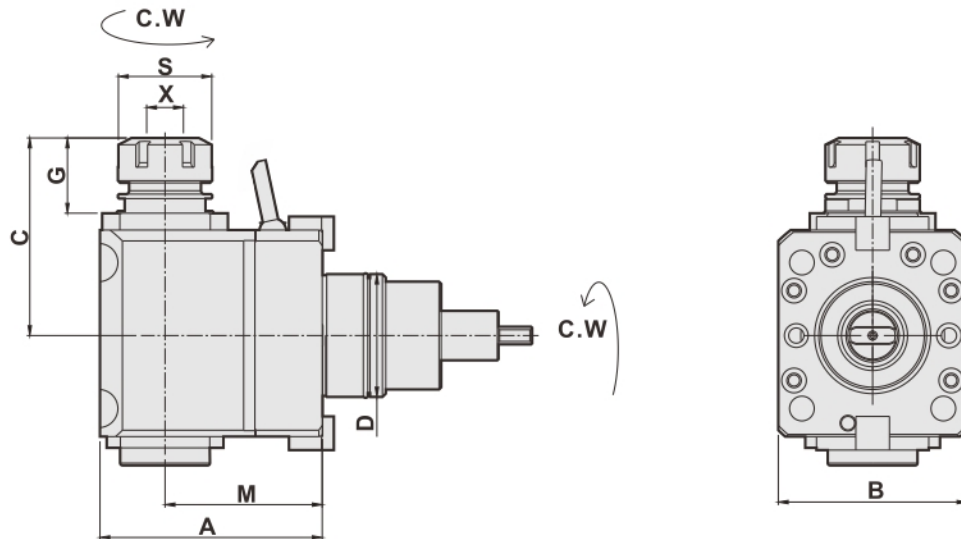


DIMENSIONS

Order No.	TYPE	Fig	D	B	M
14748	CN-ER11	1	19	11.5	M14x0.75
14750	CN-ER16	1	32	17.5	M22x1.5
14752	CN-ER20	1	35	19	M25x1.5
14754	CN-ER25	2	42	20	M32x1.5
14756	CN-ER32	2	50	22.5	M40x1.5
14758	CN-ER40	2	63	22.5	M50x1.5
14760	CN-ER50	2	78	35	M64x2.0

RADIAL MILLING AND DRILLING HEADS

徑向鑽銑刀座(90°)



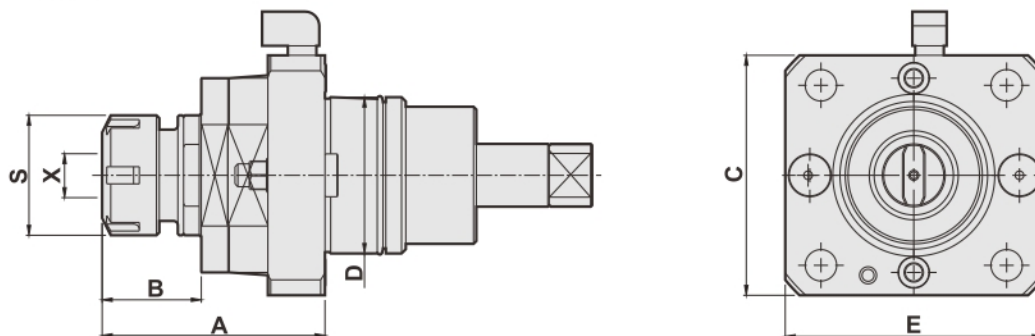
DIMENSIONS

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

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	G	M	Code No.	Order No.
BIGLIA	54.7	1-16 ER25	42	4000	99	84	88	33.5	70	1551RA-000	BIG-DF54.7-25-70

AXIAL MILLING AND DRILLING HEAD

軸向鑽銑刀座(0°)



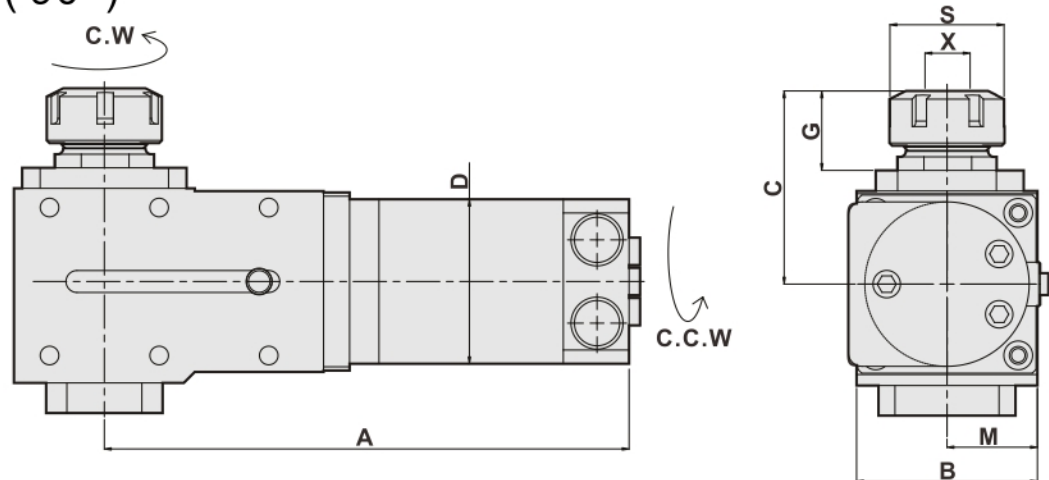
DIMENSIONS

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

Models	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	Code No.	Order No.
BIGLIA	54.7	1-16 ER25	42	4000	78	34.5	84	90	2551RA-000	BIG-DA54.7-ER25

RADIAL MILLING AND DRILLING HEAD

徑向鑽銑刀座 (90°)



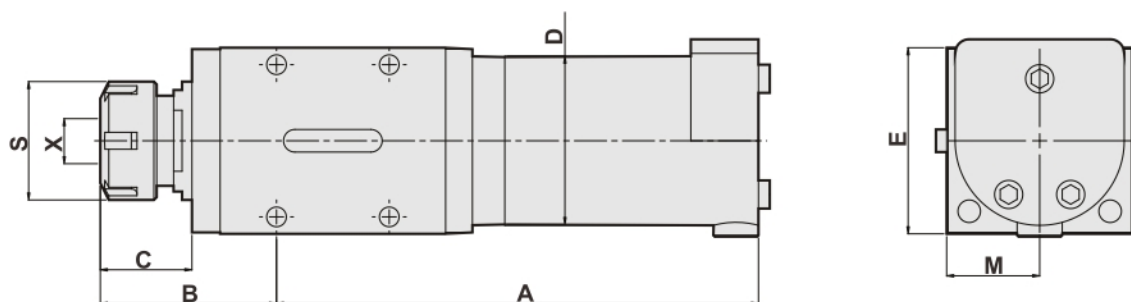
- To be used for collet DIN 6499
- Collet is not included

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	A	B	C	G	M	Code No.	Order No.
60	1-16 ER25	42	4000	192	66	70.5	29	33	266001-000	DF66-ER25

AXIAL MILLING AND DRILLING HEAD

軸向鑽銑刀座 (0°)



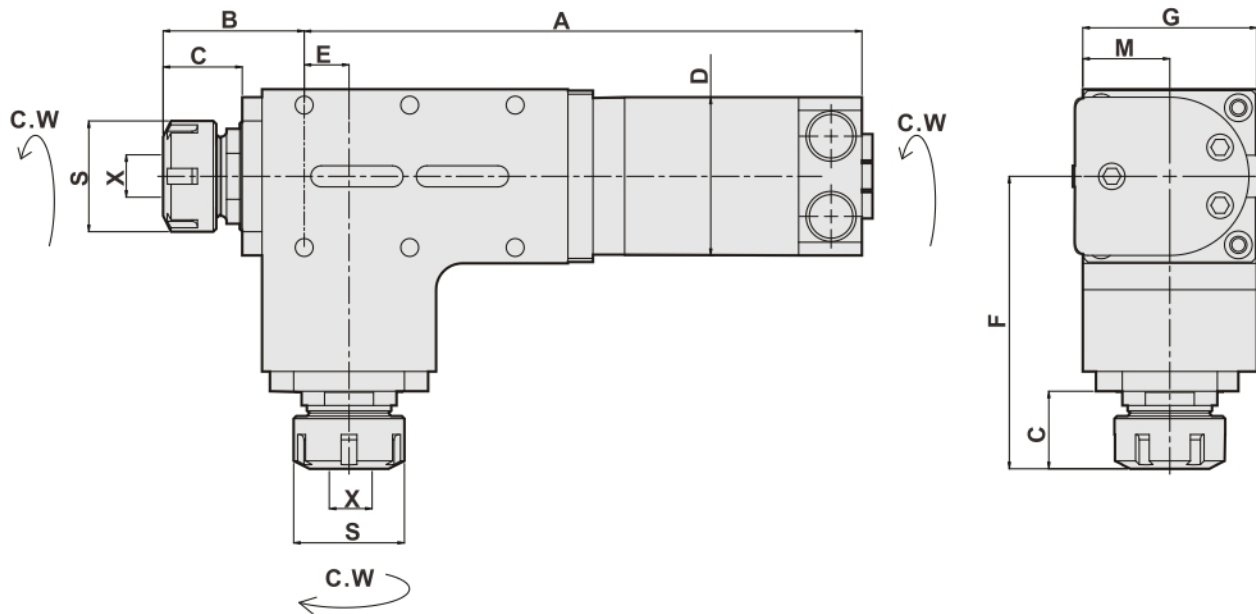
- To be used for collet DIN 6499
- Collet is not included

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	A	B	C	E	M	Code No.	Order No.
60	1-16 ER25	42	6000	171	62.5	32	66	33	166001-000	DA66-ER25

RADIAL AXIAL MILLING AND DRILLING HEAD

徑向-軸向鑽銑刀座 (90°)



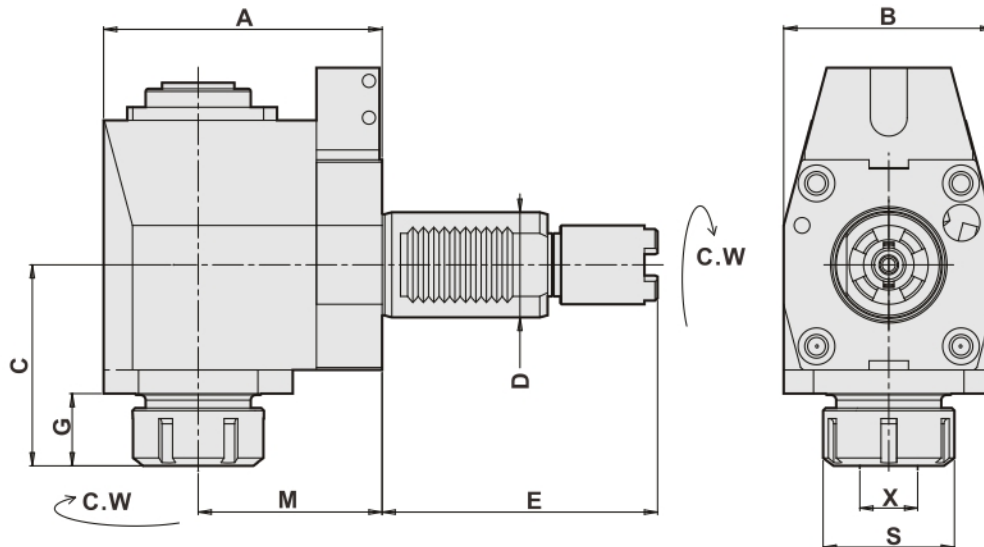
- To be used for collet DIN 6499
- Collet is not included

DIMENSIONS

D DIN 69880	X Capacity	S	Maximum R.P.M	A	B	C	E	F	G	M	Code No.	Order No.
60	1-16 ER25	42	4000	194.5	53.5	30	17	111.5	66	33	266002-000	DF66-2-ER25

RADIAL DRILLING AND MILLING HEADS

徑向鑽銑刀座 (90°)



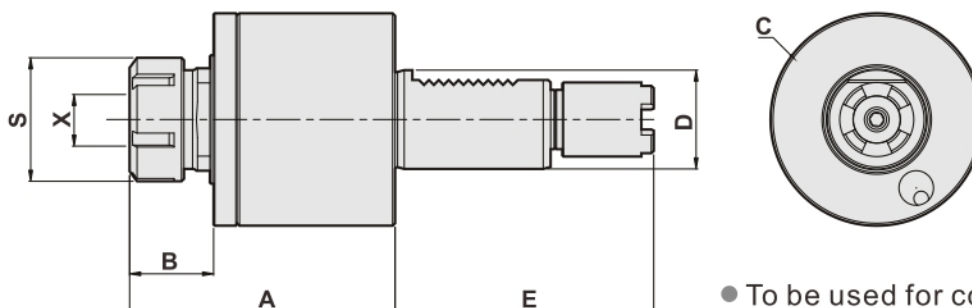
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

DIMENSIONS

Models	D	X Capacity	S	Maximum R.P.M	A	B	C	G	M	E	Code No.	Order No.
SL-20/TL-15	40	2-20 ER32	50	4000	106	80	76.5	27.5	70	104.85	240B61-000	VDI-40-FL40-32-104
SL-30/TL-25										117.55	240B62-000	VDI-40-FL40-32-117
SL-40										130.25	240B63-000	VDI/BOT-FL40-32-130
SL-40												

AXIAL MILLING AND DRILLING HEADS

軸向鑽銑刀座 (0°)



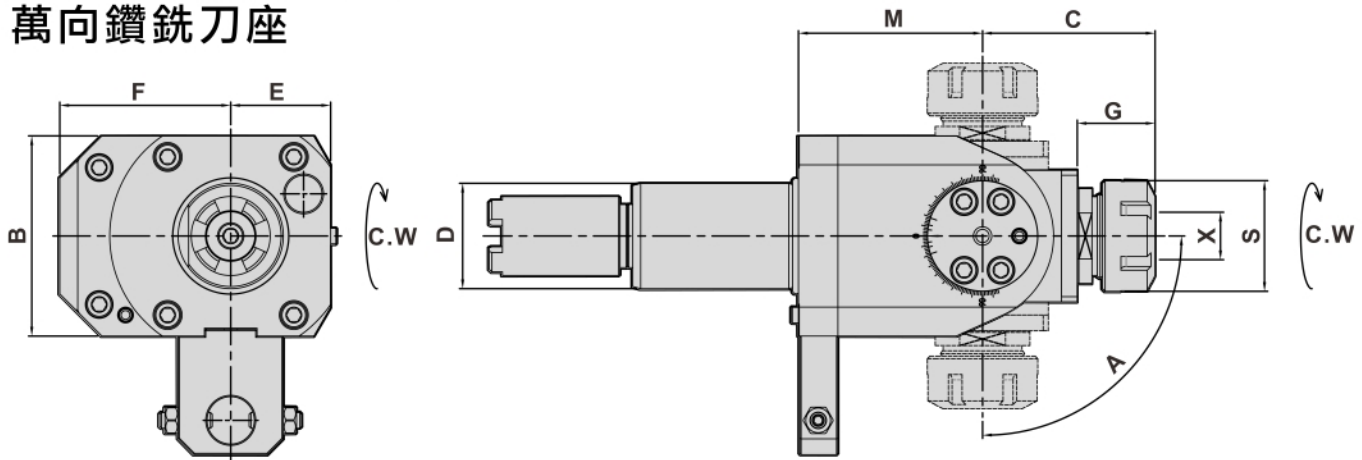
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

DIMENSIONS

Models	D	X Capacity	S	Maximum R.P.M	A	B	C	E	Code No.	Order No.
SL-20/TL-15	40	2-20 ER32	50	6000	108	34	86	104.85	140B01-000	VDI-40-DA40-32104
SL-30/TL-25								117.55	140B02-000	VDI-40-DA40-32117
SL-40								130.25	140B03-000	VDI/BOT-DA40-32130

ANGULAR HEADS

萬向鑽銑刀座



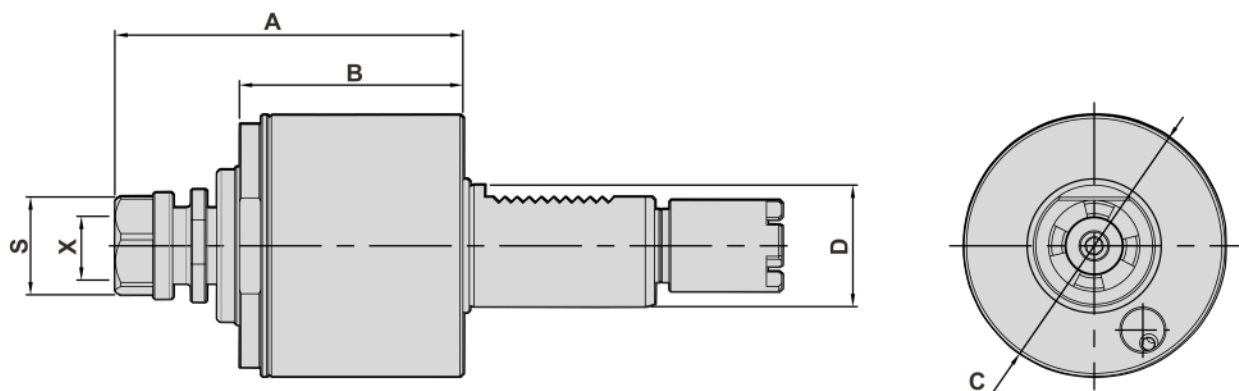
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

DIMENSIONS

D DIN 69880	X Capacity	Maximum R.P.M	S	A	B	C	E	F	G	M	Code No.	Order No.
40	2~16 ER25	4000	42	±90°	76	65	65	38	29	70	140B05-000	HAAS-DA40-25B-117
40	2~20 ER32	4000	50	±90°	76	65	65	38	29	70	140B06-000	HAAS-DA40-32B-117

AXIAL DRILLING AND MILLING DEADS

軸向彈性攻牙刀座 (0°)

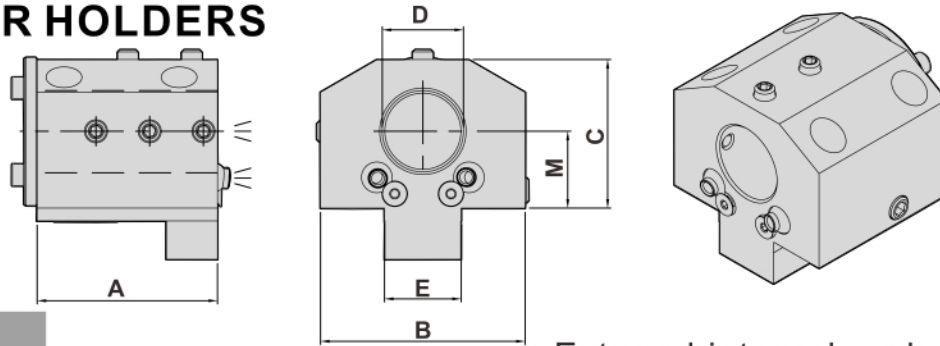


- To be used for cutter arbor according to DIN 6358
- External coolant and intermediate rings supply.

DIMENSIONS

D DIN 69880	X Capacity	Maximum R.P.M	S	i	A	B	C	Code No.	Order No.
40	1~13 ER20	3000	35	1:1	114.5	73.5	86	140B04-000	HAAS-TDA40-20-104.85

BORING BAR HOLDERS 内孔刀座

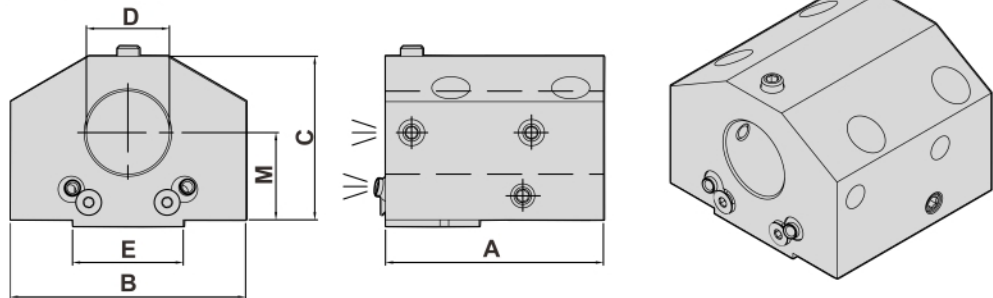


DIMENSIONS

• External, internal coolant supply

Models	D	A	B	C	E	M	Code No.	Order No.
LTC-20A	1.25" (inch)	70.5	80	58	30	30	3G1202-000	LTC20A-B1.25"-30-S
	32 (mm)						307202-000	LTC20A-B32-30-S

BORING BAR HOLDERS 内孔刀座

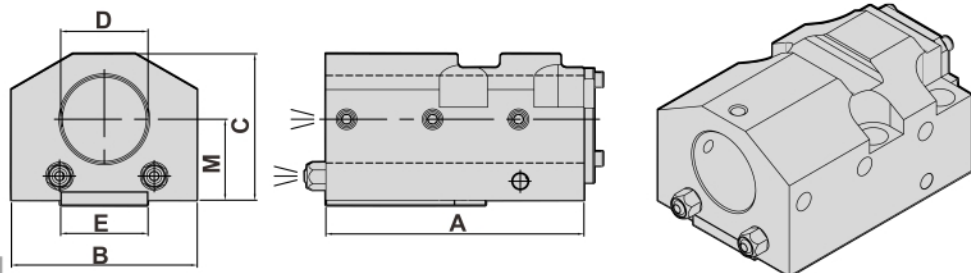


DIMENSIONS

• External, internal coolant supply

Models	D	A	B	C	E	M	Code No.	Order No.
LTC-20B	1-1/4" (inch)	100	108	75	50	40	3G1203-000	LTC20B-B1-1/4"-40-100
	32 (mm)						307203-000	LTC20B-B32-40-100
LTC-25	1-1/2" (inch)	100	108	75	50.8	40	3H1201-000	LTC25-B1-1/2"-40-100
	40 (mm)						308204-000	LTC25-B40-40-100
LTC-25IL	2" (inch)	100	108	75	50.8	40	3I1204-000	LTC25-B2"-40-100
	50 (mm)						309204-000	LTC25-B50-40-100
LTC-25IL	2" (inch)	125	108	75	50.8	40	3I1201-000	LTC25-B2"-40-125
	50 (mm)						309205-000	LTC25-B50-40-125
LTC-25IL	2" (inch)	100	108	108	50.8	70	3I1207-000	LTC25-B2"-70-100
	50 (mm)						309207-000	LTC25-B50-70-100

BORING BAR HOLDERS 内孔刀座



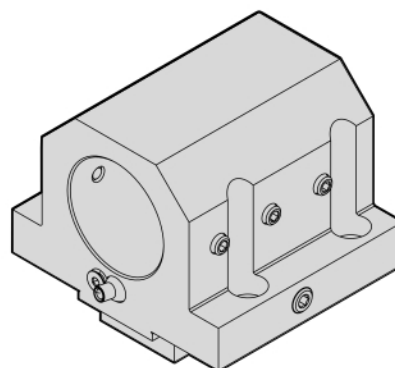
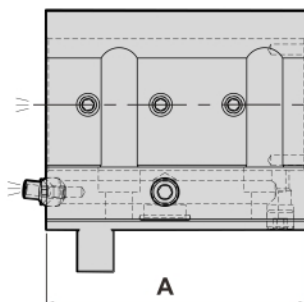
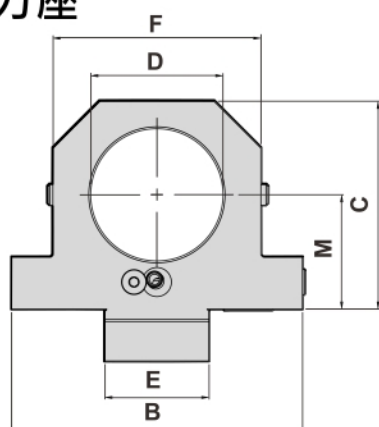
DIMENSIONS

• External, internal coolant supply

Models	D	A	B	C	E	M	Code No.	Order No.
LTC-25	2" (inch)	150	108	85	50.8	47	3I1202-000	LTC25-B2"-47-150
	50 (mm)						309209-000	LTC25-B50-47-150

BORING BAR HOLDERS

内孔刀座



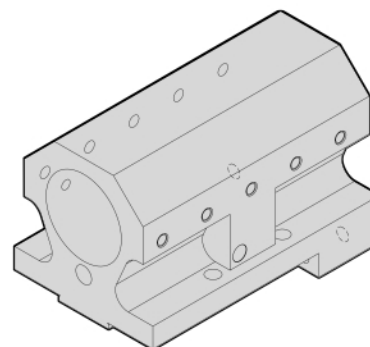
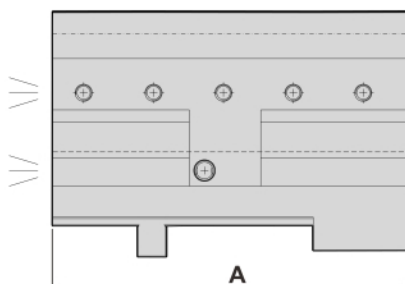
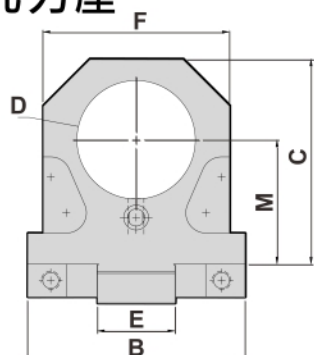
- External, internal coolant supply

DIMENSIONS

Models	D	A	B	C	E	F	M	Code No.	Order No.
LTC-35	2" (inch)	125	140	93	50	89	50	3I1210-000	LTC35-B2"-50-125
	50 (mm)							309203-000	LTC35-B50-50-125
LTC-35	2" (inch)	125	140	100	50	89	55	3I1206-000	LTC35-B2"-55-125
	50 (mm)							309206-000	LTC35-B50-55-125
LTC-35	2-1/2" (inch)	125	140	100	50	100	55	3J1201-000	LTC35-B2-1/2"-55-125
	60 (mm)							310201-000	LTC35-B60-55-125
LTC-35	2-1/2" (inch)	125	140	132	50	120	80	3J1205-000	LTC35-B2-1/2"-80-125
	60 (mm)							310205-000	LTC35-B60-80-125
LTC-50	2-1/2" (inch)	150	140	100	50	-	55	3J1202-000	LTC50-B2-1/2"-55-150
	60 (mm)							310202-000	LTC50-B60-55-150
LTC-50	3" (inch)	125	140	132	50	120	80	3K1201-000	LTC50-B3"-80-125
	80 (mm)							311201-000	LTC50-B80-80-125

BORING BAR HOLDERS

内孔刀座



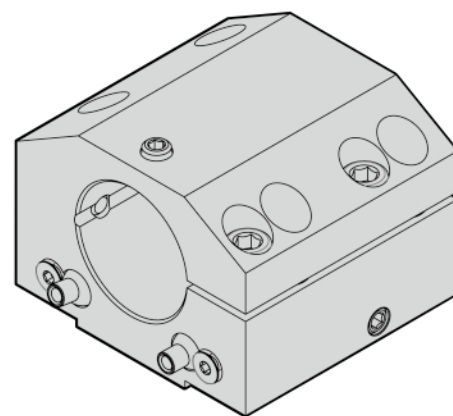
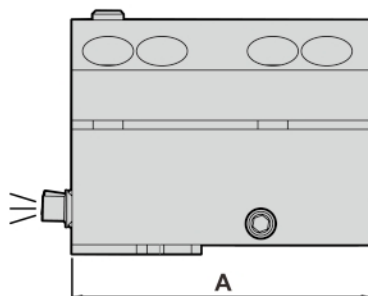
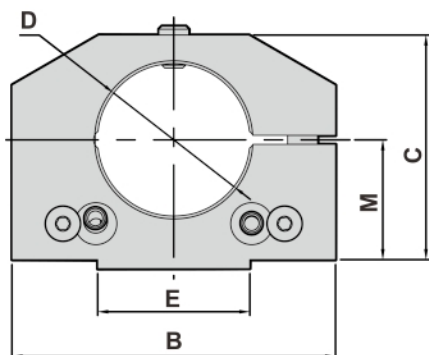
- External, internal coolant supply

DIMENSIONS

Models	D	A	B	C	E	F	M	Code No.	Order No.
LTC-50	3" (inch)	229	140	100	50	120	80	3K1202-000	LTC50-B3"-80-L
	80 (mm)							311202-000	LTC50-B80-80-L

BORING BAR HOLDERS-SPLIT TYPE

內孔刀座-槽切型



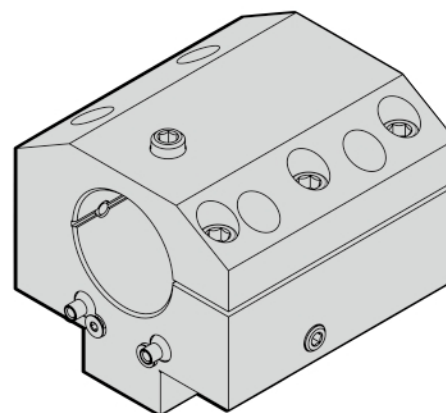
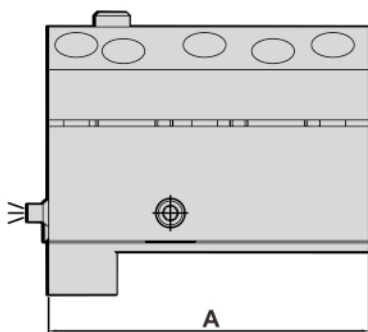
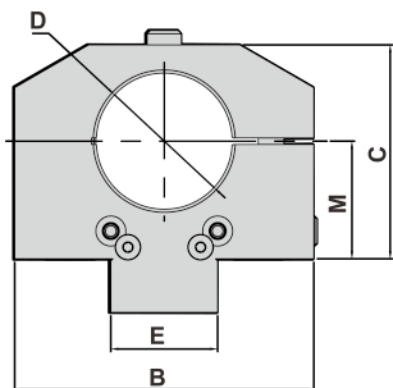
DIMENSIONS

● External coolant supply

Models	D	A	B	C	E	M	Code No.	Order No.
LTC-25	1.5" (inch)	100	108	75	50.8	40	3H1202-000	LTC25-B1.5"-40-100T
	40 (mm)						308205-000	LTC25-B40-40-100T
LTC-25	2" (inch)	100	108	75	50.8	40	3I1208-000	LTC25-B2"-40-100T
	50 (mm)						309208-000	LTC25-B50-40-100T

BORING BAR HOLDERS-SPLIT TYPE

內孔刀座-槽切型



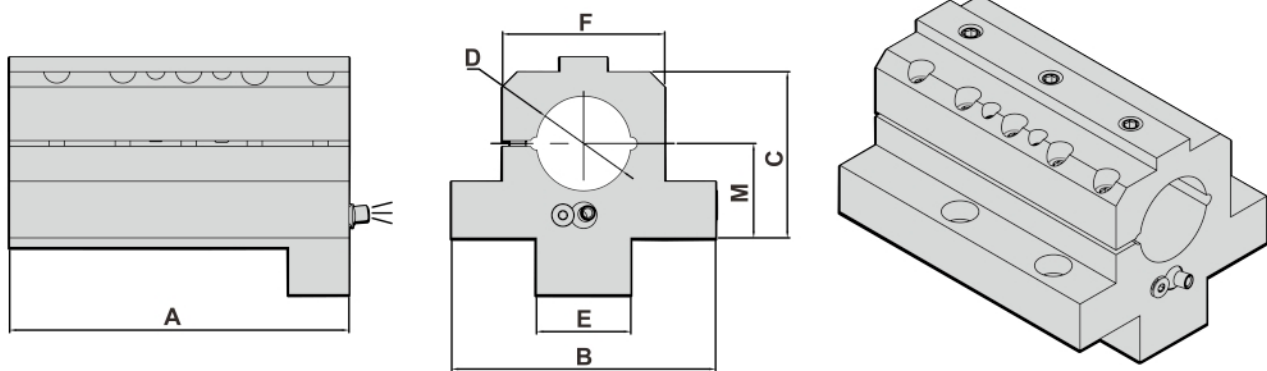
DIMENSIONS

● External coolant supply

Models	D	A	B	C	E	M	Code No.	Order No.
LTC-35	2" (inch)	150	140	100	50	55	3I1203-000	LTC35-B2"-55-150T
	50 (mm)						309210-000	LTC35-B50-55-150T
LTC-50	2.5" (inch)	150	140	100	50	55	3J1203-000	LTC50-B2.5"-55-150T
	60 (mm)						310203-000	LTC50-B60-55-150T

BORING BAR HOLDERS-SPLIT TYPE

內孔刀座-槽切型



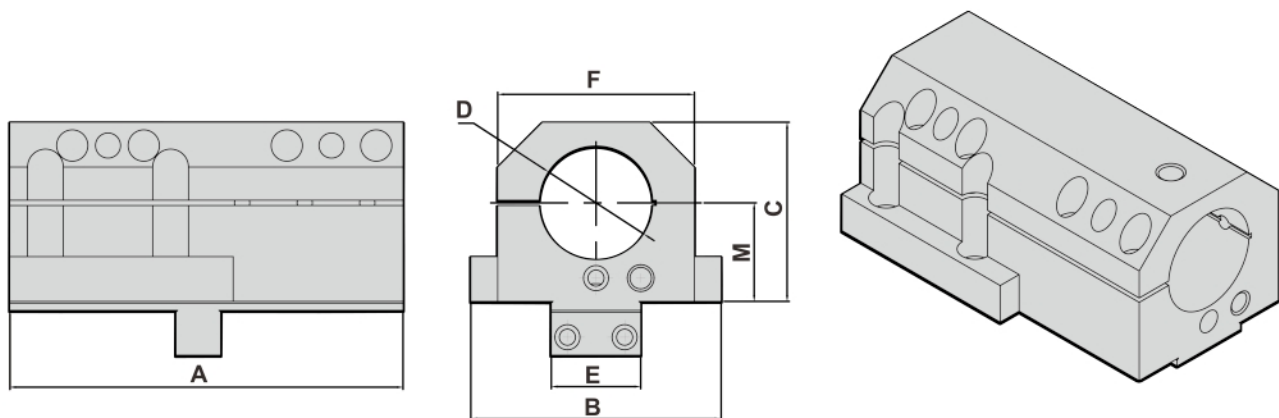
DIMENSIONS

● External coolant supply

Models	D	A	B	C	E	F	M	Code No.	Order No.
LTC-50	2" (inch)	180	140	96	50	86	50	3I1205-000	LTC50-B2"-50-180T
	50 (mm)							309201-000	LTC50-B50-50-180T
LTC-50	2" (inch)	220	140	96	50	86	50	3I1209-000	LTC50-B2"-50-220T
	50 (mm)							309202-000	LTC50-B50-50-220T

BORING BAR HOLDERS-SPLIT TYPE

內孔刀座-槽切型



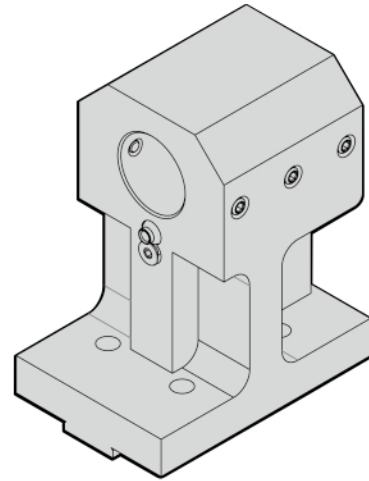
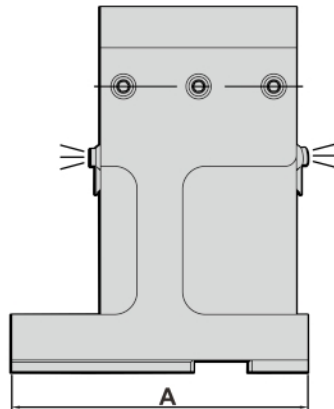
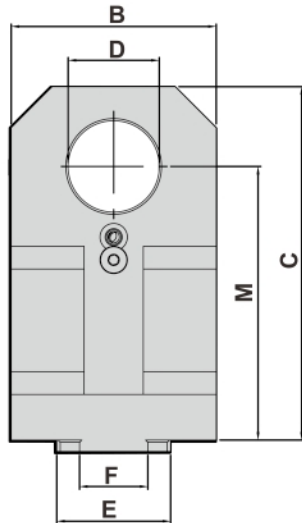
DIMENSIONS

● External coolant supply

Models	D	A	B	C	E	F	M	Code No.	Order No.
LTC-50	2.5" (inch)	220	140	100	50	110	55	3J1204-000	LTC50-B2.5"-55-220T
	60 (mm)							310204-000	LTC50-B60-55-220T

BORING BAR HOLDERS

內孔刀座



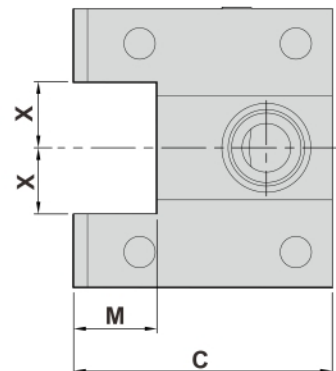
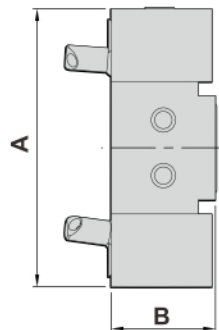
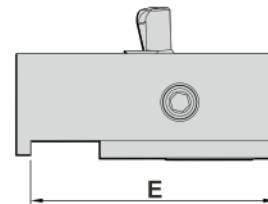
DIMENSIONS

- External, internal coolant supply

Models	D	A	B	C	E	F	M	Code No.	Order No.
LTC-25T	1.5" (inch)	130	90	155	50	30	120	3H1203-000	LTC-25T2-B1.5"-120
LTC-25T	40 (mm)							308201-000	LTC-25T2-B40-120

TURNING HOLDERS

外徑刀座



- External coolant supply

DIMENSIONS

Models	X	A	B	C	E	M	Code No.	Order No.
T-6/LTC-20A	0.75" (inch)	80	25	74.5	70.5	24	4E1201-000	LTC-20A-C0.75"-25
	20 (mm)						405201-000	LTC-20A-C20-25