



# 盟鈦精密

## MONGTEC PRECISION



同步義德瑞工藝

MONGTEC



車銑複合機  
五軸加工中心  
特殊專用機

MONGTEC

動力刀座.精密頂針  
快換系統.刀桿配件  
增速器.特殊訂製配件

[www.mongtec.com](http://www.mongtec.com)

## 關於我們

盟鈦精密/盟達實業股份有限公司創立於1983年,近年來業務範圍由鞋業集團跨足機械工具機配件代理與出口通路業務,與德、義、美、日等知名精密配件生產商合作佈局大中華區/亞洲區業務推廣。



我們也是動力刀座全球領導品牌"ALGRA S.p.A" 之亞洲區獨家代理商

包含台灣、越南、新加坡、泰國、韓國、印尼...等區域，負責推動參展、教育訓練、經銷商管理等業務。

我司專營ALGRA動力刀座-車銑複合機專用刀座、動力刀塔專用VDI動力刀座、BMT動力刀座、歐系橡膠筒夾、夾頭、各式夾頭、中心架、水壓抓料器、滾光刀具、轉銷刀座、驅動頂針...等特殊精密配件，帶給客戶更多的加工新觀念與效率。

我們的客戶涵蓋車、銑、磨床、齒輪、光學、航太產業，提供將近30000種不同的配件供客戶選擇。不斷開發並引進世界第一流的動力刀座與快換夾具等加工配件，同時不讓歐美日等機械大國專美於前，提升客戶競爭優勢一直是我們的目標，盟鈦精密也將同步推廣台灣的工具機與相關配件出口業務，將優良台灣精品外銷，期待為您服務。



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<b>1</b>	<b>動力刀座</b> 刀座尺寸規格、機台型號對照表 維修服務、特殊刀座、 客製化特殊刀座、智慧晶片刀座	2~24
25~26	<b>十秒快換系統</b> 10秒快換夾具、手動卸爪器 快換夾頭、銑床/五軸加工機專用夾頭 夾固頭規格	<b>2</b>
<b>3</b>	<b>五軸/綜合中心加工配件</b> BBT雙面拘束刀桿、HSK精密刀桿 BT液壓刀桿、HSK液壓刀桿 模組化接口設計、水壓增速器	27~33
34~37	<b>動力頂針</b> 動力頂針、驅動頂針	<b>4</b>
<b>5</b>	<b>油壓膨脹心軸</b> 油壓膨脹心軸&應用	38~40
41~42	<b>水壓抓料器</b> 水壓抓料器介紹&使用步驟	<b>6</b>
<b>7</b>	<b>瑞士原裝歸零螺帽</b> 瑞士原裝歸零螺帽介紹&使用步驟	43
44~45	<b>模組化快換系統</b> 專利快換系統、不鏽鋼萬向曲管	<b>8</b>

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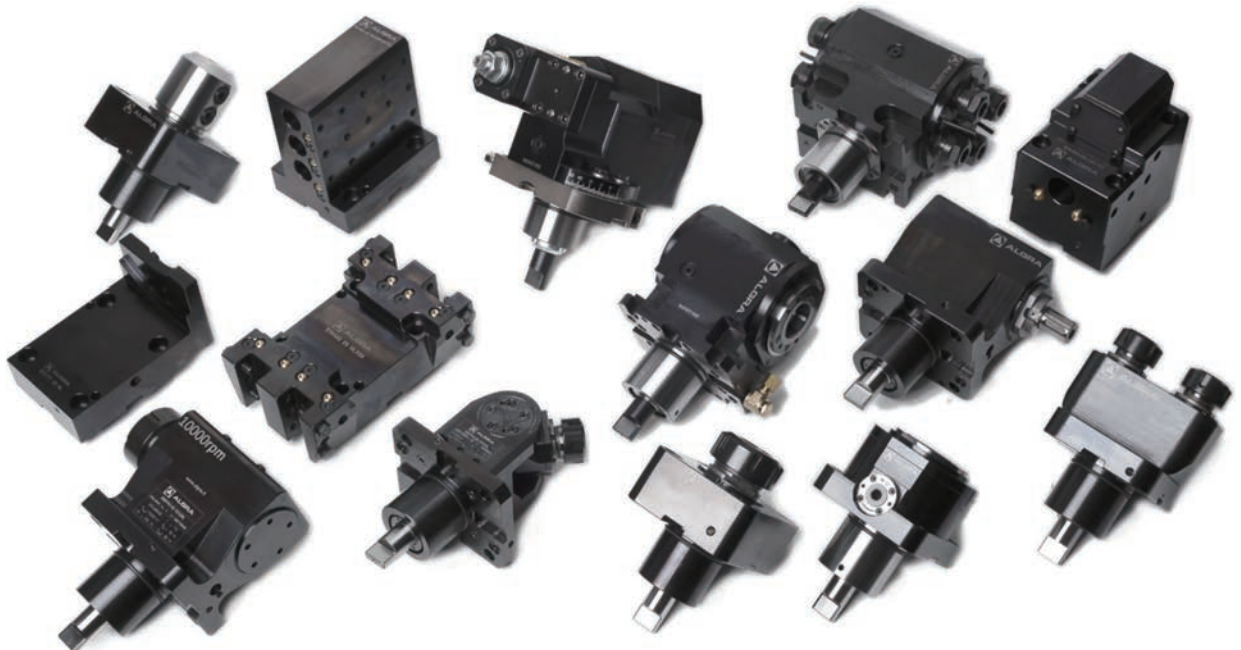
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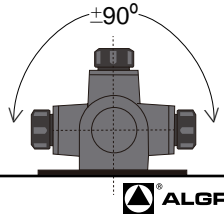
## 動力刀座

After over 50 years of work experience ALGRA has reached a prominent position in the mechanical precision machining.

The partnership with leader customers in various fields, matched with a continuous technological updating and a persevering company system improvement, has allowed ALGRA to ensure flexibility, quality and reliability to its customers.

- 致力於動力刀座開發與銷售超過50年經驗，外銷全世界五大洲四十多個國家。
- 德、義、美、日、韓、台等高階車銑複合機專用刀座、刀塔指定供應商。
- 刀座偏擺小，提升刀具加工壽命、運轉溫升穩定無異音、無需特別保養且壽命可達數年以上。
- 精密斜傘齒搭配滾柱軸承，提供最小背隙與最大扭轉力，適合重切削加工。
- 刀座最高轉速達 32000rpm，扭力最大達 160Nm，刀座皆可搭配外部出水或中心出水，最高達 100bar 高壓出水。
- 台灣有售服中心，刀座可在地維修(不限品牌)。
- 刀座皆標配獨家專利快換系統設計。





■ **本體**

經過特殊處理，搭配德國抗腐蝕性鋼材  
達到最佳剛性 & 耐震性

■ **中心出水 + 外部出水**

最大出水壓力：100 Bar

■ **軸承**

斜角滾珠軸承+預壓組立，  
搭配精密P4等級滾珠軸承與滾柱軸承，  
來達到心軸切削時，  
有最佳剛性與使用壽命。

■ **扭力&轉速**

搭配增速器轉速：32,000 Rpm

(標準品轉速：6000~12000Rpm)

最大切削扭力：160Nm

■ **格里森螺旋斜傘齒**

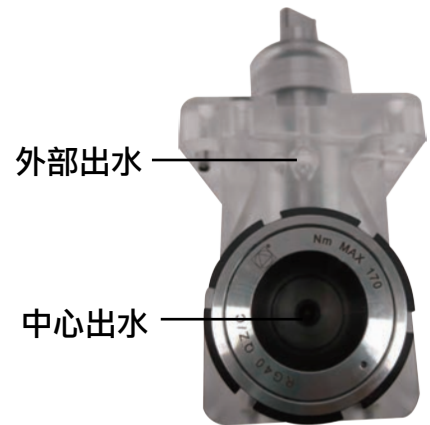
成對研磨來達到最佳精度與傳輸扭力、  
低噪音與低發熱



- 8個軸承
- 2個格里森螺旋傘齒



獨家動力刀座專用承軸螺帽  
ER20/25/32/40



專利  
快換系統



在地維修



客製化



亞太區總部



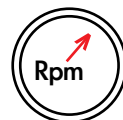
中心出水



2年保固



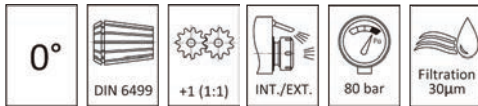
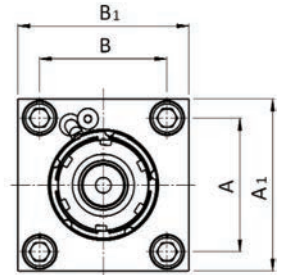
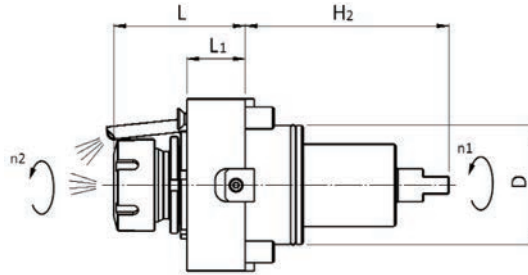
最佳服務



高轉速

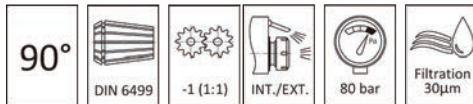
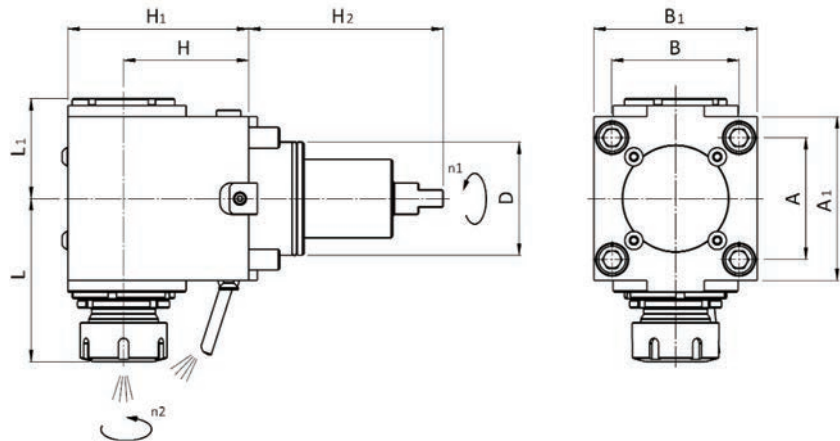
# BMT 45/55/65/75/85

Bolt Mounted Turret



Codice code- Nr.	D	ER	H	H1	H2	L (min-max)	L1	L2	A	B	A1	B1	A2	B2	M2 Nm	n2 min-1	P kw
RAPPS 25 131UT45	45	25			84	53.5÷57.2	25		58	58	75	75			35	8000	6
RAPPS 32 131UT45	45	32			84	76.5÷80.2	40		58	58	75	75			35	8000	6
RAPPS 25 131UT55	55	25			104	53.5÷57.2	25		64	64	85	85			40	8000	8
RAPPS 32 131UT65	65	32			112	68.5÷72.2	32		73	70	94	94			70	6000	10
RAPPS 40 131UT75	75	40			110	86.5÷90.2	52.6		90	90	112	112			100	6000	12
RAPPS 50 131UT85	85	50			140	112÷119.2	46.5		100	100	125	125			150	3200	15

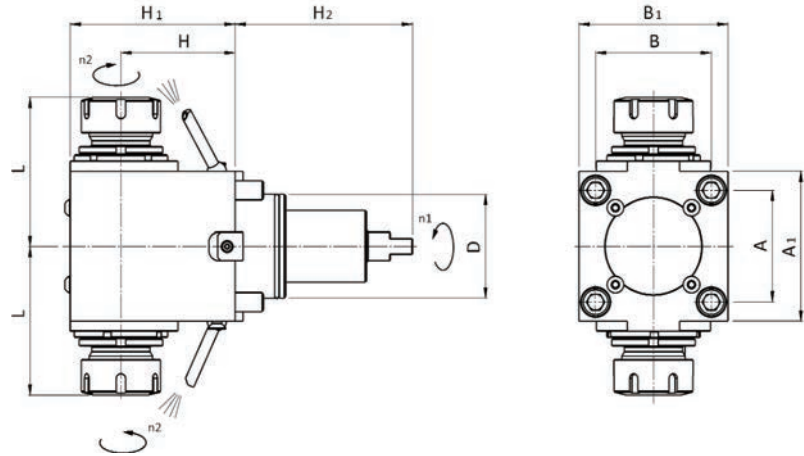
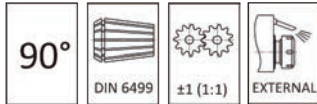
# BMT 45/55/65/75/85

**Bolt Mounted Turret**


Codice code- Nr.	D	ER	H	H1	H2	L (min-max)	L1	L2	A	B	A1	B1	A2	B2	M <sub>2</sub> Nm	n <sub>2</sub> min-1	P kw
RRPPS 25 131UT45	45	25	65	95	84	81.2÷84.9	52.2		58	58	75	75			35	8000	6
RRPPS 32 131UT45	45	32	65	97	84	89.9÷93.6	63.4		58	58	75	75			35	8000	6
RRPPS 25 331UT45	45	25	85	115	84	81.2÷84.9	52.2		58	58	75	75			35	8000	6
RRPPS 25 431UT45	45	25	100	130	84	81.2÷84.9	52.2		58	58	75	75			35	8000	6
RRPPS 25 131UT55	55	25	60	90	104	81.2÷84.9	52.2		64	64	85	85			40	8000	8
RRPPS 25 331UT55	55	25	70	100	104	81.2÷84.9	52.2		64	64	85	85			40	8000	8
RRPPS 25 431UT55	55	25	85	115	104	81.2÷84.9	52.2		64	64	85	85			40	8000	8
RRPPS 25 531UT55	55	25	100	130	104	81.2÷84.9	52.2		64	64	85	85			40	8000	8
RRPPS 32 131UT65	65	32	72	104	112	89.9÷93.6	63.4		70	73	94	94			70	6000	10
RRPPS 32 331UT65	65	32	100	132	112	89.9÷93.6	63.4		70	73	94	94			70	6000	10
RRPPS 40 131UT75	75	40	60	107	110	108.3÷112.1	74.1		90	90	112	112			100	6000	12
RRPPS 40 331UT75	75	40	90	137	110	108.3÷112.1	74.1		90	90	112	112			100	6000	12
RRPPS 40 431UT75	75	40	110	157	110	108.3÷112.1	74.1		90	90	112	112			100	6000	12
RRPPS 50 131UT85	85	50	85	136.5	140	140.3÷147.7	91.6		100	100	125	125			150	3200	15
RRPPS 50 331UT85	85	50	110	161.5	140	140.3÷147.7	91.6		100	100	125	125			150	3200	15

# BMT 45/55/65/75/85

Bolt Mounted Turret

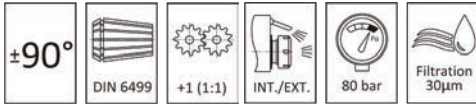
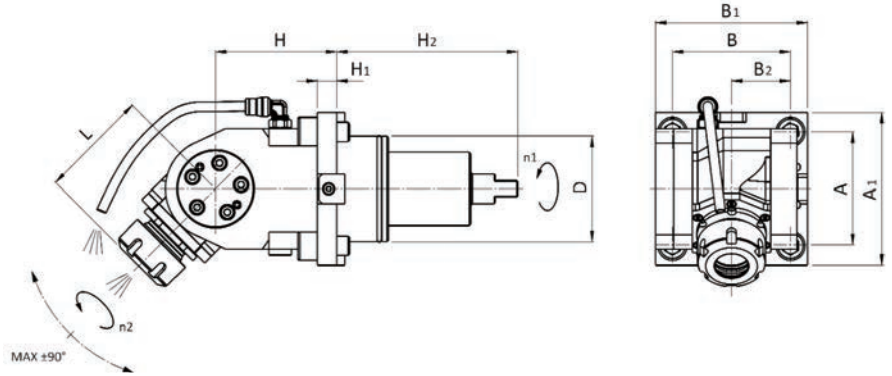


Codice code-Nr.	D	ER	H	H1	H2	L (min-max)	L1	L2	A	B	A1	B1	A2	B2	M <sub>2</sub> Nm	n <sub>2</sub> min-1	P kw
RRPPT 25 121UT45	45	25	65	95	84	81.2÷84.9			58	58	75	75			35	8000	6
RRPPT 32 121UT45	45	32	65	97	84	89.9÷93.6			58	58	75	75			35	8000	6
RRPPT 25 321UT45	45	25	85	115	84	81.2÷84.9			58	58	75	75			35	8000	6
RRPPT 25 421UT45	45	25	100	130	84	81.2÷84.9			58	58	75	75			35	8000	6
RRPPT 25 121UT55	55	25	60	90	104	81.2÷84.9			64	64	85	85			40	8000	8
RRPPT 25 321UT55	55	25	70	100	104	81.2÷84.9			64	64	85	85			40	8000	8
RRPPT 25 421UT55	55	25	85	115	104	81.2÷84.9			64	64	85	85			40	8000	8
RRPPT 25 521UT55	55	25	100	130	104	81.2÷84.9			64	64	85	85			40	8000	8
RRPPT 32 121UT65	65	32	72	104	112	93÷93.6			70	73	94	94			70	6000	10
RRPPT 32 321UT65	65	32	100	132	112	93÷93.6			70	73	94	94			70	6000	10
RRPPT 40 121UT75	75	40	60	107	110	108.4÷112.1			90	90	132	112			100	6000	12
RRPPT 40 321UT75	75	40	90	137	110	108.4÷112.1			90	90	132	112			100	6000	12
RRPPT 40 421UT75	75	40	110	157	110	108.4÷112.1			90	90	132	112			100	6000	12



# BMT 45/55/65/75/85

Bolt Mounted Turret



Codice code- Nr.	D	ER	H	H1	H2	L (min-max)	L1	L2	A	B	A1	B1	A2	B2	M2	n2 min-1	P kw
ROPPS 20 131UT45	45	20	65	12	84	48.8÷52.5			58	58	75	75		29	15	8000	3
ROPPS 20 131UT55	55	20	65	12	104	48.8÷52.5			64	64	85	85		32	15	8000	3
ROPPS 25 131UT65	65	25	75	12	112	63.5÷67.2			70	73	94	94		36.5	25	6000	4
ROPPS 25 131UT75	75	25	75	12	110	63.5÷67.2			90	90	105	105		45	25	6000	4

DIN 5480



d1	ER	H	Nm	Rpm
30	25	66	32	6000
40	32	95	63	6000
30	25	55	32	6000
40	32	100	63	6000

DIN 5482



d1	ER	H	Nm	Rpm
30	25	94	32	6000
40	32	115	63	5000
30	25	55	32	6000
40	32	100	63	5000

BARUFFALDI



d1	ER	H	Nm	Rpm
30	25	94	32	6000
40	32	117	63	5000
30	25	55	32	6000
40	32	53	63	5000

DIN 1809



d1	ER	H	Nm	Rpm
30	25	94	32	6000
40	32	115	63	5000
30	25	55	32	6000
40	32	100	63	5000

Biglia

BMT 55

d1	ER	H	Rpm
55	32	83.5	4000
55	32	70	4000

DMG MORI

NLX 1500-2000-2500-3000 16 Stations 刀位  
NZX 12 Stations 刀位

ER	H	Nm	Rpm
32	86.2÷89.9	60	10000
40	88.5÷92	60	10000
32	MAX 90	60	10000
40	MAX 90	60	10000

Biglia

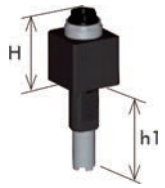
BMT 40 : B436

d1	ER	H	Rpm
40	20	57	6000
40	20	70	6000

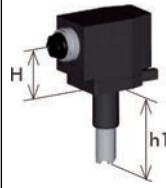
DMG MORI

NZ 1500-2000-3100-3150-3200 16 Stations 刀位  
20 Stations 刀位

ER	H	Nm	Rpm
25	80.6÷84.3	50	12000
32	85.5÷89.2	50	12000
25	85	50	12000
32	85	50	12000


**VDI - 40**


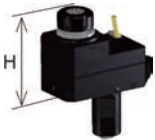
ER	H	h1	Nm	Rpm
32	75	117.5	63	6000
32	75	104.8	63	6000
32	75	130.25	63	6000



ER	H	h1	Nm	Rpm
32	75	117.5	63	6000
32	75	104.8	63	6000
32	75	130.25	63	6000


**QTN2**

QUICK TURN NEXUS QTN 200/250  
 SUPER QUADREX TURN SQT 15/18 - 200/250



ER	H	Nm	Rpm
32	116.2÷120	80	6000



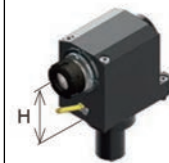
32	130	80	6000
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**SMART QTS1**

QUICK TURN SMART QTN 100M/200M  
 QT COMPACT 100M - 200M - 300M



ER	H	Nm	Rpm
32	MAX 70	60	6000

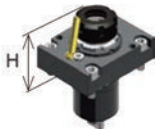


32	80	60	6000
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φ 45 : ABX 51/64 TH2/TH3 BNE 34/42 - BNJ 42/51

φ 54 : ABX 51/64 THY - ABX 51/64 SYY



d1	ER	H	Nm	Rpm
45	25	53.9÷57.6	35	6000
54	32	75.7÷79.4	60	6000



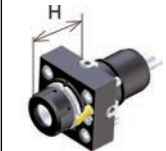
45	25	65	35	6000
54	32	75	60	6000


**BMT44**

WT100-TW1

**BMT55**

SUPER NTJ-NTJX/NTM3/TMC18/  
 TW10/SC150-250/WT150-250/  
 WTW150/WTS150/WT100



d1	ER	H	Nm	Rpm
44	25	MAX 57.2	40	6000
55	32	68.5÷72.2	63	6000



44	25	60	40	6000
55	32	55	63	6000



**BMT 60** : SPACE TURN LB 200EX/LB 2500EX  
 /LB3000EX/GEENOS SERIES L300-MW/MULTUS  
 U3000/U40007/LU3000EX M/MY

**BMT 55** : LT2000 EXM/MY



d1	ER	H	Nm	Rpm
60	32	MAX 79	60	6000
55	25	76	40	6000



60	32	70	60	6000
55	25	65	40	6000



**BMT65**: M06D/M06SD/M065Y/  
 M08D/M08SD/M085Y

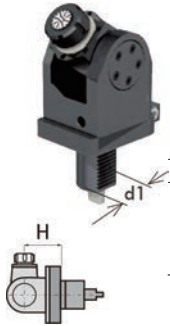


ER	H	Nm	Rpm
25	MAX 60	40	8000

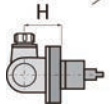


25	65	40	8000
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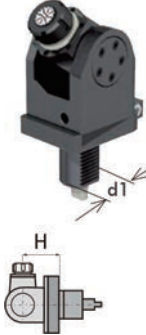
DIN 5480



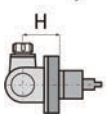
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30	20	64	15	6000
	20	97	15	6000
40	25	81	25	4000
50	40	123	50	4000



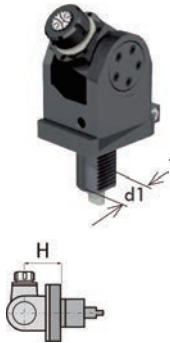
DIN 5482



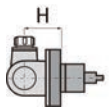
d1	ER	H	Nm	Rpm
30	20	64	15	6000
	20	97	15	6000
40	25	81	25	5000
50	25	100	25	4000



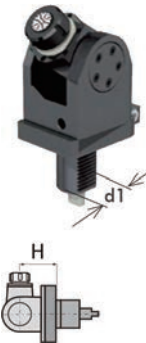
BARUFFALDI



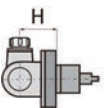
d1	ER	H	Nm	Rpm
30	20	64	15	6000
	20	97	15	6000
40	25	81	25	5000



DIN 1809



d1	ER	H	Nm	Rpm
30	20	64	15	6000
	20	97	15	6000
40	25	81	25	5000

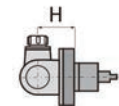


Biglia

BMT 40-55



BMT	ER	H	Rpm
40	11	91.5	6000
	16	105	6000
55	20	140	4000
	16	111	4000

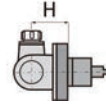


DMG MORI

NLX-NZX-NZ-SL-ZL-DL



d1	ER	H	Nm	Rpm
NLX	25	78	25	10000
NZ	20	50	17	12000
SL ZL DL	20	66	25	6000

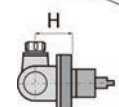


International Haas Automation

VDI 40



ER	H	h1	Nm	Rpm
25	81	69.3	25	6000

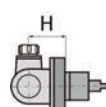


Mazak

QTN1-QTN2-QTN3-QTS



d1	ER	H	Nm	Rpm
QTN1	20	85	63	6000
QTN2	25	85	80	6000
QTN3	32	85	100	6000
QTS	25	80	30	6000



# ALGRA 得獎無數-證書



## TOOLHOLDER SPECIALIST

- Quality- 高品質
- Efficiency- 高效率
- Reliability- 可靠
- Innovation- 創新
- Flexibility- 靈活

■ ALGRA 近期獲頒  
2019年度DMG MORI集團 -  
全球兩千多個DMG MORI供應商評選 -

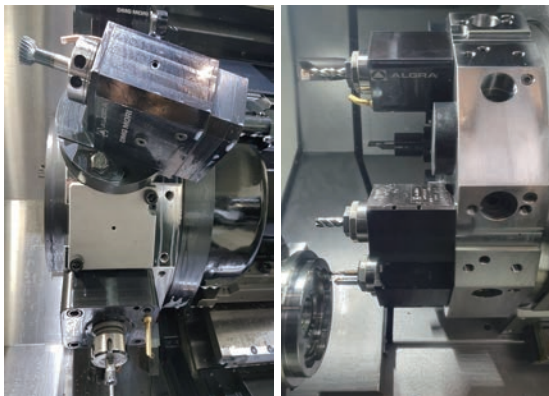
➤ 冠軍





<b>Baruffaldi</b> 【刀塔】	TBMA / TBYA 120	VDI20-Baruffaldi
	TBMA / TBYA / TBMR / TBYR 160	VDI30-Baruffaldi
	TBMA / TBYA / TBMR / TBYR 200	VDI40-Baruffaldi
	TBMA / TBYA / TBMR / TBYR 250	VDI50-Baruffaldi
<b>六鑫</b> 【刀塔】	全系列刀塔	BMT45/55/65/75/85 VDI30/40/50/60
<b>SAUTER</b> 【霄特】	全系列刀塔	BMT45/55/65/75/85 VDI25/30/40/50/60
<b>DMG MORI</b> 【德馬吉森精機】	CLX 350	VDI30-DIN5480
	CLX 450, 550	VDI40-DIN5480
	CTV 160	VDI30-DIN5480
	CTV 200, 250, 315	VDI40-DIN5480
	CTX 210, 310, 320, 400 E, 400 Twin, 410	VDI30-DIN5480
	CTX 310 eco (DIN5480 turret)	VDI30-DIN5480
	CTX 310 eco (DIN5482 turret)	VDI30-DIN5482
	CTX 400 (DIN5482 turret)	VDI30-DIN5482
	CTX 420, 450, 510, 520	VDI40-DIN5480
	CTX 500 (DIN5482 turret)	VDI40-DIN5482
	CTX 510 eco (DIN5480 turret)	VDI30-DIN5480
	CTX 510 eco (DIN5482 turret)	VDI40-DIN5482
	CTX alpha 300 (16 Station turret)	VDI25-DIN5480
	CTX alpha 300, 500	VDI30-DIN5480
	CTX beta 500, 800 (VDI30 turret)	VDI30-DIN5480
	CTX beta 500, 800, 1250	VDI40-DIN5480
	CTX gamma TC 1250, 2000, 3000	VDI40-DIN5480
	DURATURN 2050, 2550 MC	NZ
	GMX 250/300/400/500	VDI40-DIN5480
	GT 400, 500, 600	VDI40-DIN5482
	NEF 400	VDI30-DIN5480
	NEF 520	VDI30-DIN5482
	NEF 600	VDI40-DIN5480
	NL1500, 2000, 2500 (20 Station turret)	NZ
	NL1500, 2000, 2500, 3000 (12 station)	NL
	NLX1500, 2000, 2500 (20 Station turret)	NZ
	NLX1500, 2000, 2500, 3000, 4000 (12 station)	NL
	NRX2000	NZ
	NT1000, 2000, 3000	NZ
	NT4000, 4200, 5000, 5400	NL
	NTX1000, 2000	NZ
	NZ1500, 2000 (16 Station turret)	NZ
	NZL2000, 2500	NL
	NZX1500, 2000 (20 Station turret)	NZ
NZX2500	NL	
Sprint 50	VDI25-DIN5480	
Sprint 65 linear	VDI30-DIN5480	
Twin 32/42/65/120 (VDI25 turret)	VDI25-DIN5480	
Twin 32/42/65/120 (VDI30 turret)	VDI30-DIN5480	
Twin 500	VDI40-DIN5480	
<b>DOOSAN</b> 【斗山】	Lynx 2100 M/MS	BMT45
	Lynx 220 M/LM/LMS/LY/LSY	BMT45
	Lynx 300 M	BMT55
	Puma 1500, 2000, 2500 M/MS/Y/SY	BMT55
	Puma 2100 M/MS/Y/SY	BMT55
	Puma 2100, 2600 M/LM/MS/LMS/Y/LY/SY/LSY	BMT65
	Puma 2100, 2600 Y/SY (16 Station turret)	BMT65
	Puma 230, 240, 280 M/MS/LM	BMT55
	Puma 300 M/MS/MB/MC	BMT65
	Puma 3100 M/MS/Y/SY	BMT65
	Puma 400, 480, 500 M/LM	BMT75
	Puma 4100, 5100 M/LY	BMT75
	Puma 600, 700, 800 M/LM/LY	BMT85
	Puma GT2100, 2600 M	BMT55
	Puma Invertturn 3000 M	BMT65
	Puma MX1600 ST	BMT45
	Puma MX1600, 2100 ST	BMT55
	Puma MX2000, 2500, 2600 T/ST/SY	BMT65
	Puma SMX 3100 ST	BMT65
	Puma TL2000, 2500 M	BMT55

<b>DOOSAN</b> 【斗山】	Puma TT1500, 1800 MS/SY	BMT55	
	Puma TT2000, 2500 MS/SY	BMT65	
	Puma TW2600 M	BMT55	
	Puma V400 M	BMT65	
	Puma V550, 8300 M	BMT75	
	Puma VT1100 M	BMT85	
	Puma VT450 M/M-2SP	BMT65	
	Puma VT750 M, M-2SP	BMT75	
	Puma VT900 M, M-2SP	BMT85	
	Puma SMX 3100 ST BMT55	BMT65	
	Puma TL2000, 2500 M	BMT55	
<b>Ecoca</b> 【勝傑】	SJ-20MC	VDI20-Baruffaldi	
	VL 2, 3, 4, 5	VDI40/E7-DIN1809	
	VLC 250	VDI40/E7-DIN1809	
	VSC 200, 250	VDI40/E7-DIN1809	
	VSC 315, 400, 500, 7, VL 7, 8	VDI50/E7-DIN1809	
	<b>Fair Friend</b> 【友嘉】	FTC 10, 25 MC (VDI turret)	VDI30-DIN1809
		FTC 20, 30 (VDI turret)	VDI40-DIN1809
	<b>Focus CNC</b> 【福順】	FCL 200 MC (VDI turret)	VDI30-DIN1809
		FCL 300 MC (VDI turret)	VDI40-DIN1809
	<b>Goodway</b> 【程泰】	GA-2000, 2600, 2800, 3000, 3300, 3600 M	MS
		GLS-100/150/200 M (Bevel Gear version)	G1
GLS-150, 200 M (DIN1809 version)		M45	
GLS-1500, 2000 M		M45	
GLS-2800, 3300		BMT65	
GLS-2800-3300Y		BMT65	
GMS-2000 ST (15 Station turret)		BMT65	
GMT-2000		BMT65	
GS-200, 230, 260, 280 M/MS		MS	
GS-2000 - 2800 (16 Station turret)		BMT65	
GS-2000/2600/2800/4000 (12 station turret)		G4	
GTS-100/150 MMX (Bevel Gear version)		G1	
GTS-150 M (DIN1809 version)		M45	
GTS-260 MMY		G3	
GTW-1500	M45		
GTX/GTZ-2000, 2600 (12 Station turret)	BMT65		
GTX-2000, 2600 (16 Station turret)	BMT55		
GTZ-2000, 2600 (16 Station turret)	BMT55		
<b>Haas</b> 【哈斯】	DS-30 (12 station hybrid turret)	VDI40-HS2	
	DS-30 (BMT turret)	BMT65	
	SL-20/30 (12 station hybrid turret)	VDI40-HS2	
	SL-20/30 (VDI turret)	VDI40-HS1	
	SL-40 (12 station hybrid turret)	VDI40-HS3	
	SL-40 (VDI40 turret)	VDI40-HS2	
	ST-10/15 (12 station hybrid turret)	VDI40-HS2	
	ST-10/15/20/25/30/35 (VDI40 turret)	VDI40-HS2	
ST-20/25/30/35 (12 station hybrid turret)	VDI40-HS2		
ST-20/25/30/35 (BMT turret)	BMT65		
ST-40/45 L (12 station hybrid turret)	VDI40-HS3		
TL-15/25 (12 station hybrid turret)	VDI40-HS2		
<b>Hardinge</b> 【哈廷】	Conquest H51	BMT55	
	GS-42, 51	BMT45	
	GS-65	BMT65	
	Super-Precision T56	BMT55	
	T-42, 51	BMT45	
	T-65	BMT55	
Talent 42, 51	BMT45		
<b>HURCO</b> 【赫可】 TMM 10, 12	VDI40-DIN5480		



<b>HURCO</b> 【赫可】	TMM 8	VDI30-DIN1809
	TMX 8, 10 MY/MYS	VDI40-DIN5480
	Cutex 160, 180 MC/SMC/YMC/YSMC	BMT55
	Cutex 240 MC/SMC	BMT65
<b>Hwacheon</b> 【華章】	Hi-Tech 200, 230, 300, 400, 450 MC/SMC/YMC/YSMC	BMT65
	Hi-Tech 550, 700 MC	BMT75
	Hi-Tech 850 MC/YMC	BMT85
	T2-Series MC/SMC/YMC/YSMC	BMT65
	VT 450 MC	BMT55
	VT 550, 650 MC	BMT75
	VT 950, 1150 MC	BMT85
	VT-450	BMT65
	HD2200M/MC	BMT55
	Hit 20M/3200M/250M (VDI turret)	VDI40-DIN1809
<b>Hyundai WIA</b> 【現代威亞】	L160, 230MA/LMA/LMSA	BMT55
	L2000, 2100, 2600, 3000 Y/LY/SY/LSY	BMT65
	L300 MA/MC/LMA/LMC/MSA/MSC/LMSA	BMT65
	L400 MA/LMA/MC/LMC	BMT75
	L600, 700, 800 MA/LMA	BMT85
	LM1600, 1800TTMS/TTSY	BMT55
	LM2000, 2500TTM/TTMS/TTSY	BMT65
	LV1100RM	BMT85
	LV800RM	BMT75
	SKT 200, 250 TTSY	BMT65
	SKT 250, 300 LM/LMS/M/MS	BMT65
	SKT 400M/LMC, V80R/RM	BMT75
	SKT 600, 700 LM	BMT85
	SKT160, 180TTMS/TTSY	BMT55
<b>LEADWELL</b> 【台灣麗偉】	T-6M	VDI30-DIN1809
	T-8M	VDI40-DIN1809
<b>MYLAS</b> 【名陽】	DY42/52/60 (Main turret)	BMT45/VDI30-DIN5480
	GT42/GT52 (Main turret)	BMT45/VDI30-DIN5480
	DT42/52/65 (Main turret)	BMT45/VDI30-DIN5480
	DT42/52/65 (Subturret turret)	VDI25-5480
	Hyper Quadrex 100, 150 MSY	MQ1
<b>MAZAK</b> 【山崎馬扎克】	Hyper Quadrex 200, 250 MS/MSY (12 Station turret)	MQ2
	Hyper Quadrex 200, 250 MS/MSY (16 Station turret)	MQ1
	Hyper Quadrex (HQ) 450 M	MZ3
	Megaturn Nexus 900 M	MZ3
	Multiplex 610, 6100	MQ1
	Multiplex 620, 6200Y (16 Station turret)	MQ1
	Multiplex 620, 6200Y, 6250 (12 Station turret)	MQ2
	Multiplex W-200 Y (12 Station turret)	MQ2
	Quick Turn (QT) 200, 250 M/MY/MS/MSY	S68
	Quick Turn Compact (QTC) 100, 200, 300 M/MY/MS/MSY	S68
	Quick Turn Nexus (QTN) 100, 150 M/MS	MZ1
	Quick Turn Nexus (QTN) 200, 250 M/MS/MY/MSY (12 station turret)	MZ2
	Quick Turn Nexus (QTN) 200, 250 M/MS/MY/MSY (16 station turret)	MZ1
	Quick Turn Nexus (QTN) 300, 350, 400, 450 M/MY/MSY	MZ3
	Quick Turn Smart (QTS) 100, 150, 200, 250 M/S	S68
	Quick Turn Universal (QTU) 200, 250, 350 MY/MSY	S68
	Slant Turn Nexus 500, 550 M	MZ3
	Super Quadrex 200, 250 M	MZ2
Super Quick Turn (SQT) 100 M/MY/MS/MSY	MZ1	
Super Quick Turn (SQT) 15, 18, 200, 250 M/MY/MS/MSY (12 station turret)	MZ2	
Super Quick Turn (SQT) 15, 18, 200, 250 M/MY/MS/MSY (16 station turret)	MZ1	
Super Quick Turn (SQT) 28, 30, 300, 350, 400, 450 M/MY	MZ3	

<b>Miyano</b> 【星宮美亞諾】	ABX-51, 64 SY/THY	M54
	ABX-51, 64 TH2/TH3	M45
	BNA-32, 42 C/DHY/GTY/MSY/S	M38
	BND-51 C/S/SY	M45
	BNE-34, 51 S/SY/MSY	M45
<b>Mori-Seiki</b> 【森精機】	BNJ-42, 51 S/SY	M45
	BNX-42 SY	M45
	DL15, 150 MC	MO
	DL-200, 250 MC	MS
	SL 150, 153, 154, MC/SMC/Y/SY	MO
<b>Muratec</b> 【村田】	SL-200, 203, 204, 250, 253, 254 MC/SMC	MS
	SL-2500 Y	MS
	ZL 150, 153, 154, MC/SMC/Y/SY	MO
	ZL-200, 203, 204, 250, 253, 254 MC/SMC	MS
	MT 100	N44
<b>Nakamura-Tome</b> 【中村留】	AS-200 L/LS (12, 15 station turret)	N55
	NTJ-100	N44
	NTY <sup>s</sup> -150, 250	N55
	SC-150, 200, 250	N55
	SC-300	N65
	Super NTJ, NTJX, NTM <sup>s</sup>	N55
	Super NTMX	N44
	Super NTX	N65
	Super NTY <sup>s</sup>	N44
	TMC 200, 300 M	N65
	TW-10	N55
	TW-20 (12 Station turret)	N65
	TW-20 (16 stations turret)	N55
	TW-30 (16 Station turret)	N65
	WT-100	N44
	WT-150, 150II, 250, 250II	N55
	WT-300	N65
	WTS-150	N55
WTW-150	N55	
<b>Okuma</b> 【大隈】	WY-100	N44
	WY-150, 250	N55
	GENOS L300 MW/MYW	K60
	LB2000, 2500, 3000 EX	K60
	LT 2000 EX M/MY (16 Station turret)	K60
<b>Samsung (SMEC)</b> 【三星】	LU2000, 2500, 3000 EX	K60
	Multus U3000, 4000 2SW	K60
	PL 1600 M/CM	BMT45
	PL 2000-2500M	BMT65
	PL 20-25-35 M	BMT65
	PL 240LM	BMT55
	PL 45M, 800VM	BMT75
	PL 60, 70, 80 M/LM	BMT85
	SL 1500, 2000M/SY	BMT55
	SL 15M	BMT45
<b>Tsugami</b> 【津上】	SL 25, 35, 2500M/SY, 3500Y	BMT65
	SL 45, 5500M	BMT75
	SL 65, SLV 1000M	BMT85
	M06, M08 D/SD/SY	TS65
	VT-NP16CM	BMT45
<b>Victor</b> 【台中精機】	VT-NP20CM, VT-A16/20CM	BMT55
	VT-A16/20YCM	BMT55
	VT-Q200	BMT55
	VT-A26CM	BMT65
	VT-A26YCM	BMT65
	VT-S26CM	BMT65
	VT-40/45CM	BMT75
	VT-40/45YCM	BMT75
	VT-V760CM	BMT75
	VT-V1000CM	BMT85
<b>YCM</b> 【永進】	GT 200 MA (VDI turret)	VDI30-DIN1809
	GT 250, 300 MA (VDI turret)	VDI40-DIN1809



刀座維修服務  
業界唯一引進原廠維修手法



台灣在地維修

引進德國刀座廠維修技術

不限品牌皆能維修

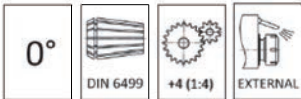
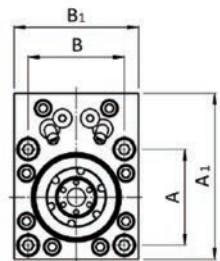
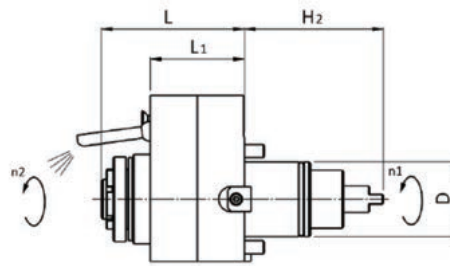
WTO/Eppinger/Heimatec/ALPS/MT/EWS/BENS...etc.

使用APEC P4等級原裝軸承

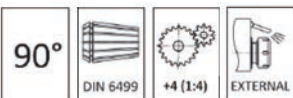
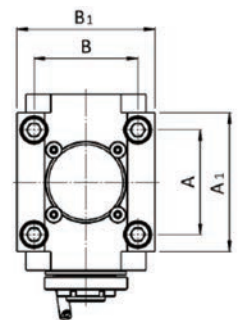
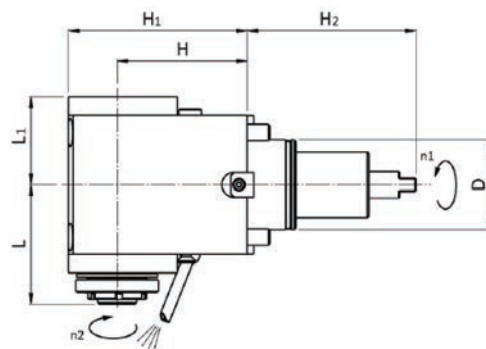
含清潔 → 更換軸承、油封、ORING → 上油 → 組裝 → 校正精度



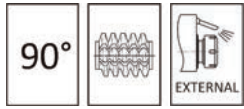
增速刀座齒比 1:4，可達32000 Rpm－專利行星式齒輪設計



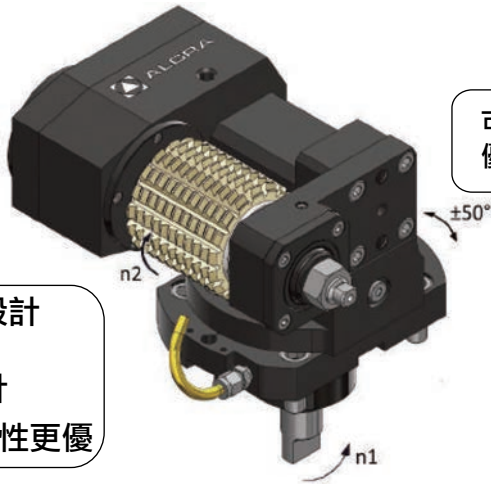
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Code-Nr.																Nm	min-1	kW
RAPPS 16 122UT55	55	16			104	82.5-86.5	57		64	64	100	75			12	32000	3	



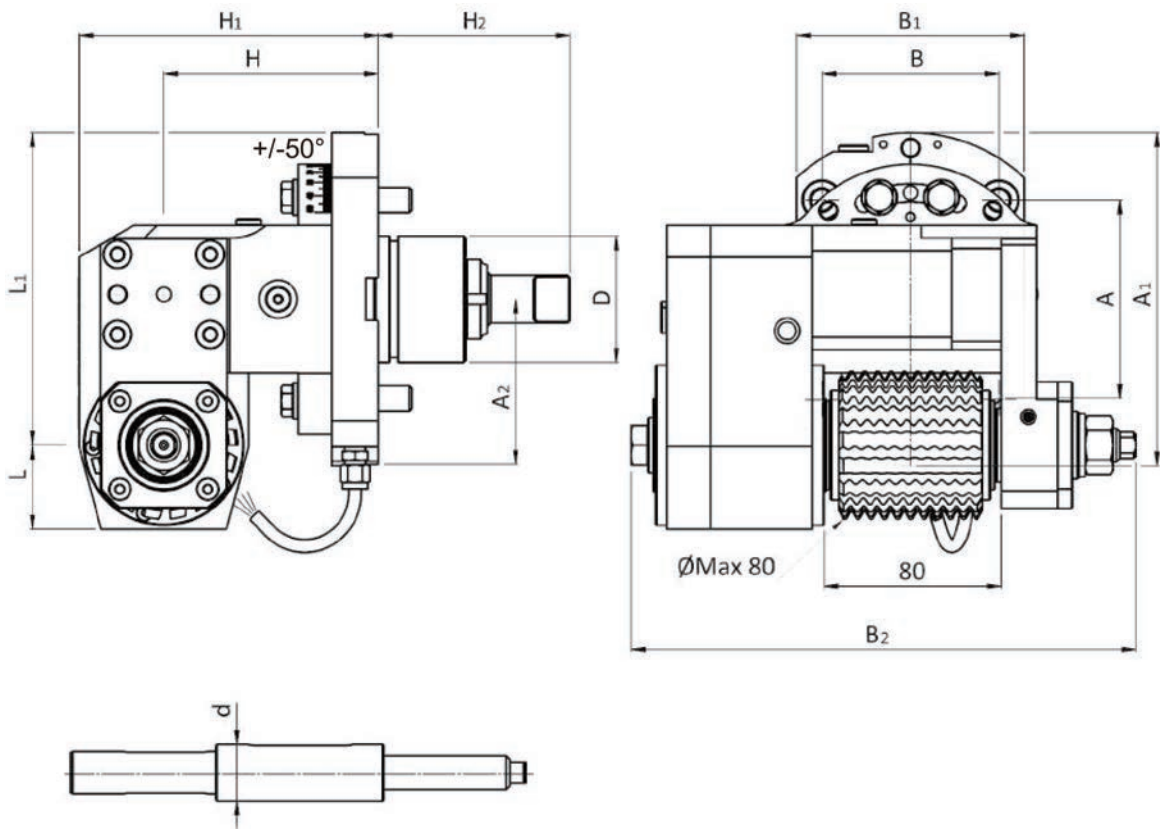
Codice	D	ER	H	H1	H2	L	L1	L2	A	B	A1	B1	A2	B2	M2	n2	P	
Code-Nr.																Nm	min-1	kW
RRPPS 16 122UT55	55	16	70	100	104	66-69.7	52.5		64	64	85	85			12	32000	3	



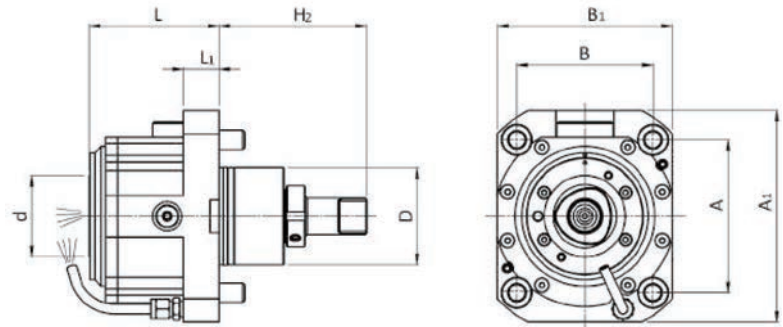
**2:1減速比設計**  
**優於**  
**同業1:1設計**  
**扭力輸出可加倍,剛性更優**



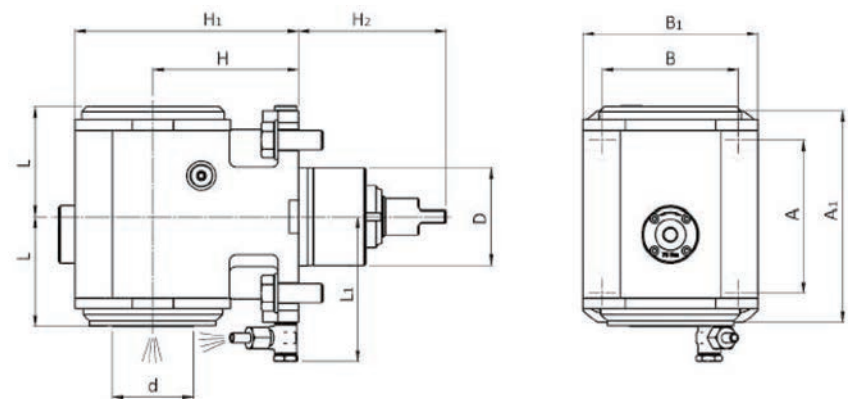
可調角度達±50°  
優於它牌僅30° 以下



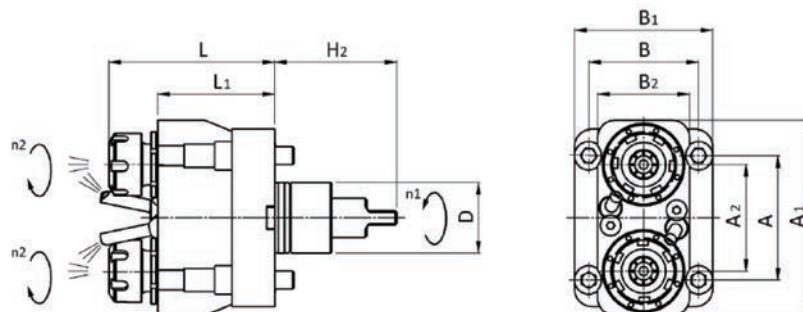
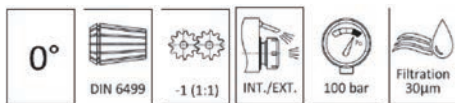
Codice Code-Nr.	D	ER	H	H1	H2	L	L1	L2	A	B	A1	B1	A2	B2	M2 Nm	n2 min-1	P kW
RRPCS 16 323UNL	60	Φ16	101.77	141.8	91	40	148		94	84	158	108	78.3	240	150	3000	
RRPCS 22 323UNL	60	Φ22	101.77	141.8	91	40	148		94	84	158	108	78.3	240	150	3000	
RRPCS 27 323UNL	60	Φ27	101.77	141.8	91	40	148		94	84	158	108	78.3	240	150	3000	
RRPCS 32 323UNL	60	Φ32	101.77	141.8	91	40	148		94	84	158	108	78.3	240	150	3000	
RRPCS 0.75" 323UNL	60	Φ0.75"	101.77	141.8	91	40	148		94	84	158	108	78.3	240	150	3000	
RRPCS 1" 323UNL	60	Φ1"	101.77	141.8	91	40	148		94	84	158	108	78.3	240	150	3000	
RRPCS 1.25" 323UNL	60	Φ1.25"	101.77	141.8	91	40	148		94	84	158	108	78.3	240	150	3000	



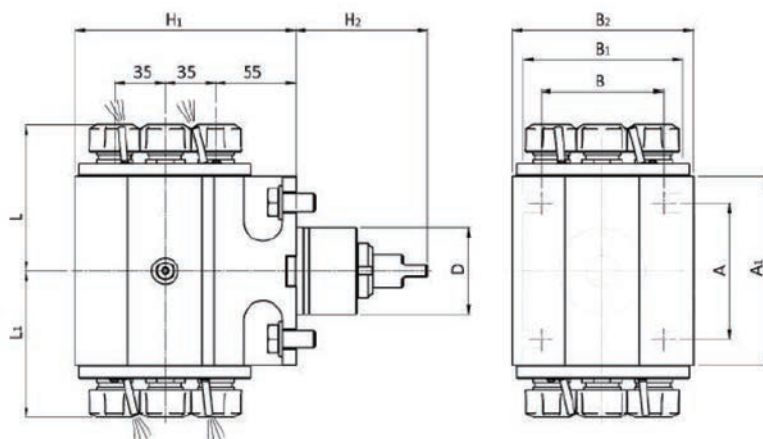
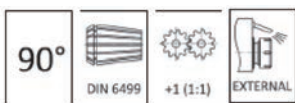
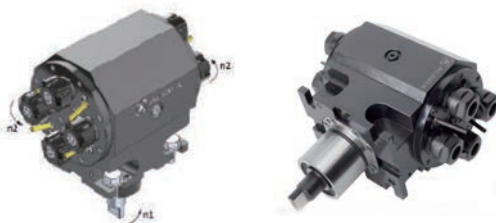
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															Nm	min-1	kW
RAPCH C5 131UNL	60	C5			91	80	22		94	84	130	108			100	10000	5.2
RAPCH C4 131UNL	60	C4			91		22		94	84	130	108			100	10000	5.2



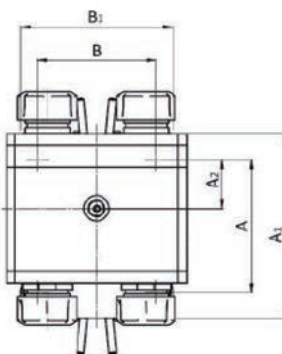
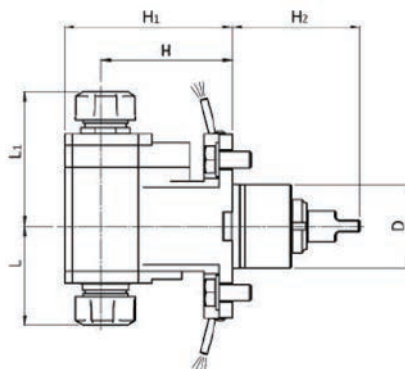
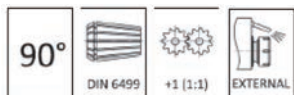
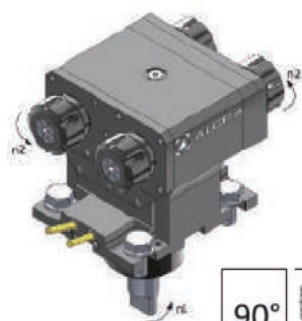
Codice Code-Nr.	D	d	H	H1	H2	L	L1	L2	A	B	A1	B1	A2	B2	M2	n2	P
															Nm	min-1	kW
RRPCH C5 131UNL	60	C5	90	138	91	68	89		94	84	130	108			100	10000	5.2
RRPCH C5 131UNL	60	C4	90	138	91	68	89		94	84	130	108			100	10000	5.2



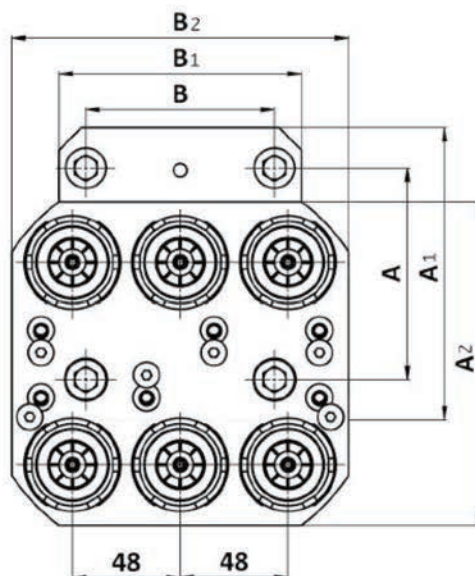
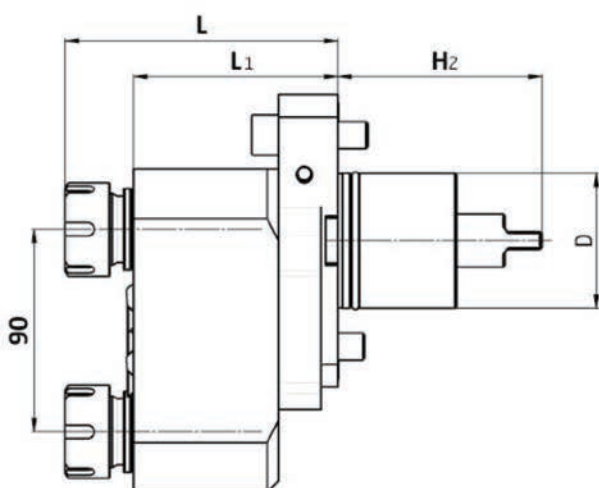
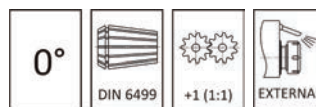
Codice Code-Nr.	D	ER	H	H1	H2	L (min-max)	L1	L2	A	B	A1	B1	A2	B2	M <sub>2</sub> Nm	n <sub>2</sub> min-1	P kW
RAPPTZ 20 131UNZ	40	20			69	90÷93.52	66		70	62	110	78	60	52	20	6000	7.5



Codice Code-Nr.	D	ER	H	H1	H2	L (min-max)	L1 (min-max)	A	B	A1	B1	A2	B2	M <sub>2</sub> N m	n <sub>2</sub> min-1	P kW
RRPTQ20 121UNL	60	25				97.3÷101	97.3÷101	94	84	130	108		124	20	6000	1.1

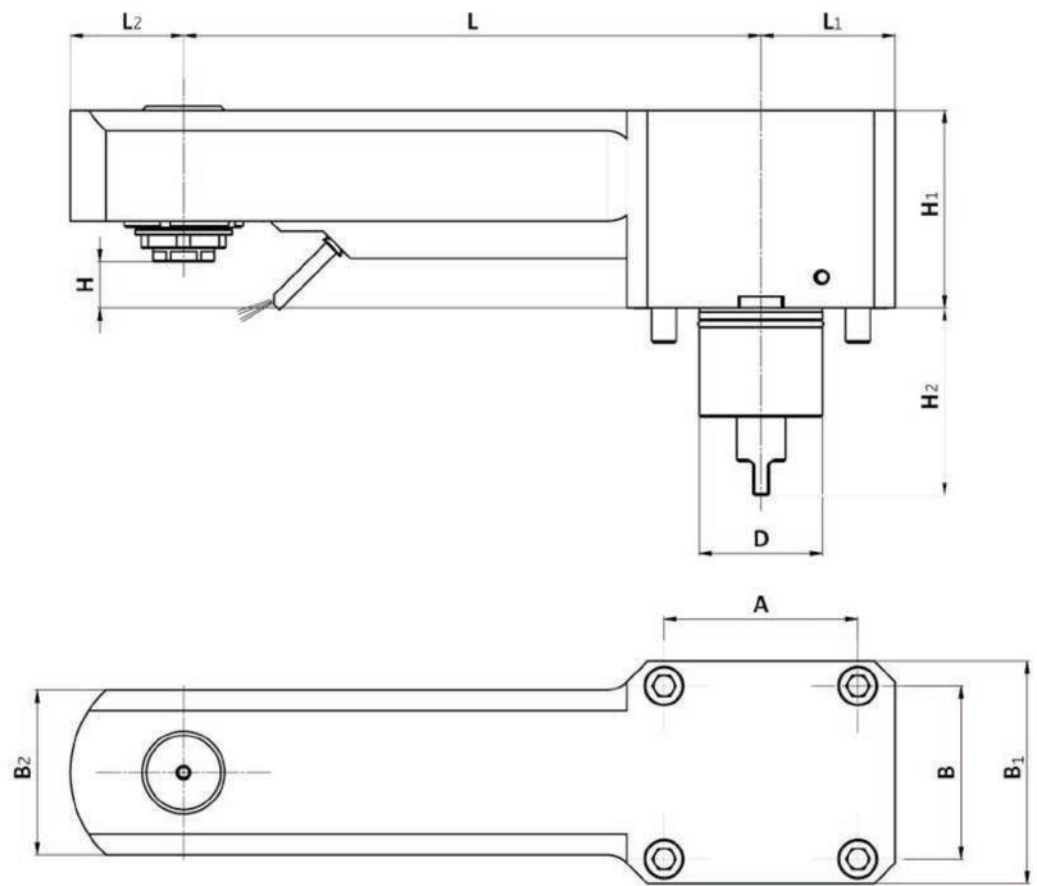
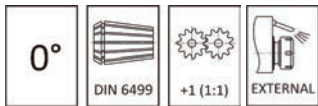
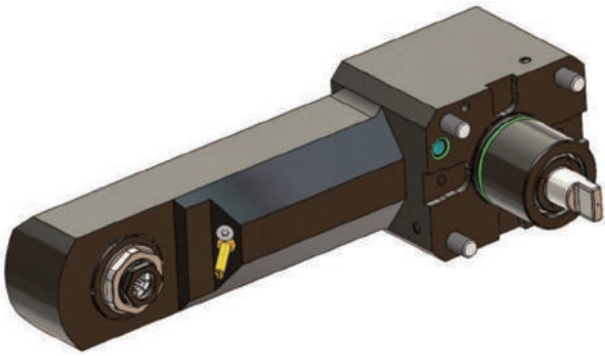


Codice Code-Nr.	D	ER	H	H1	H2	L (min-max)	L1 (min-max)	A	B	A1	B1	A2	B2	M2 Nm	n2 min-1	P kW
RRPPTY25 121UNL	60	25	90	119	91	66.3÷70	91.3÷95	94	84	130	108	34.5	40	6000	2.1	



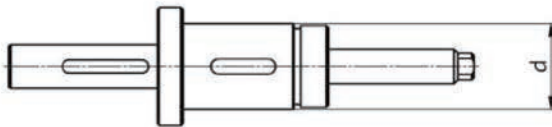
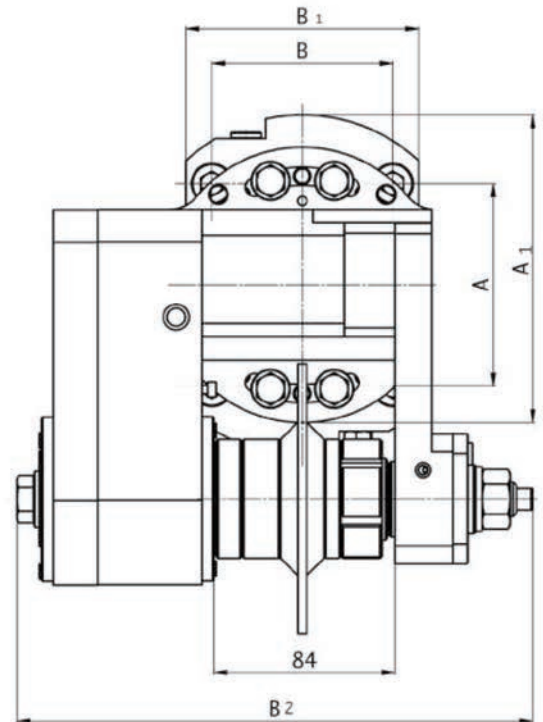
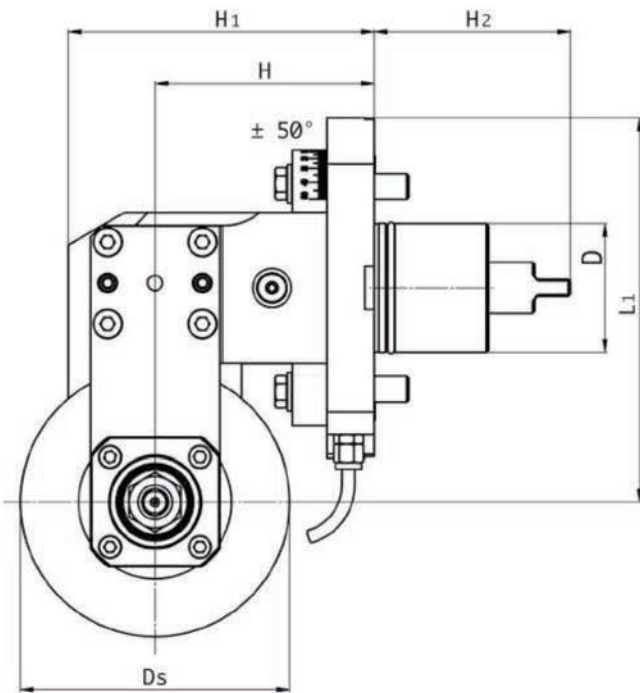
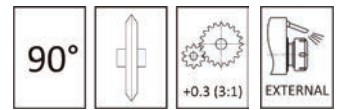
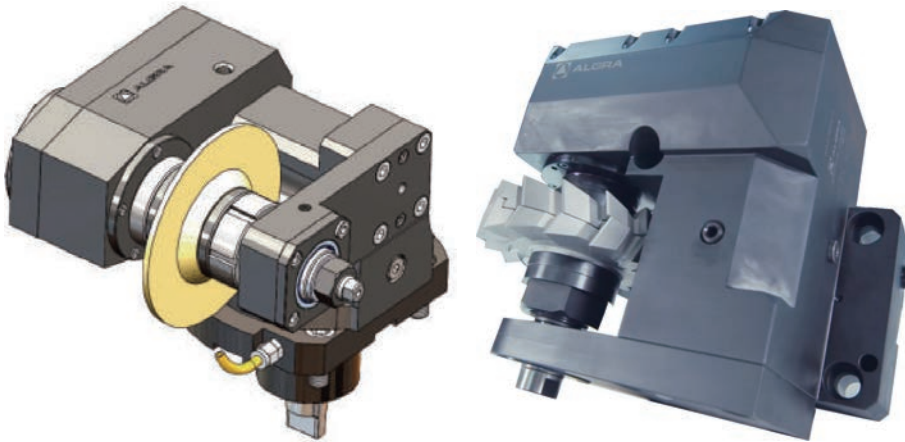
Codice Code-Nr.	D	ER	H	H1	H2	L	L1	L2	A	B	A1	B1	A3	A2	M2 Nm	n2 min-1	P kW
RAPP6 25 121UNL	60	25			91	121.5	91		94	84	130	108		144	20	6000	1.6

客製孔內加工加長刀座



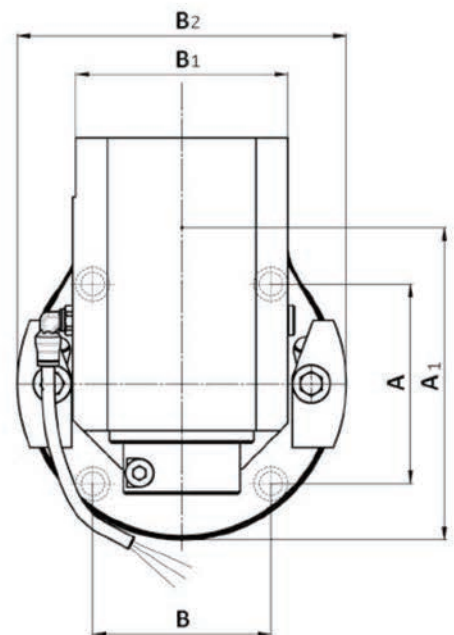
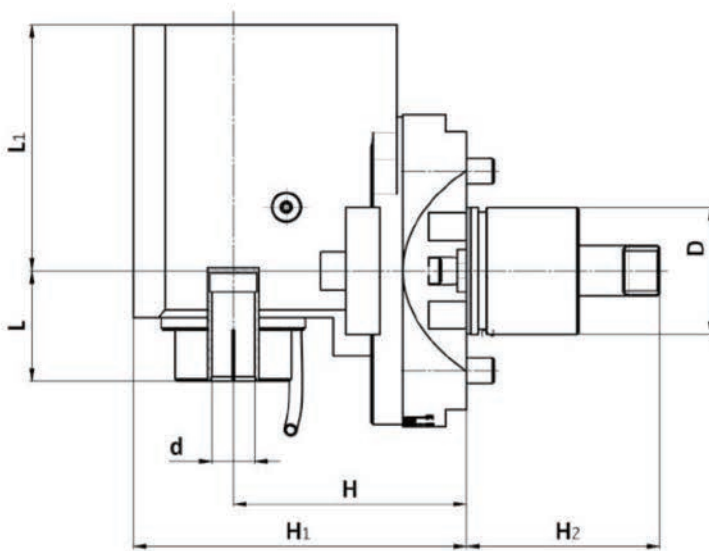
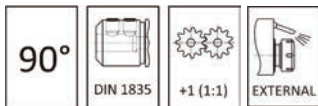
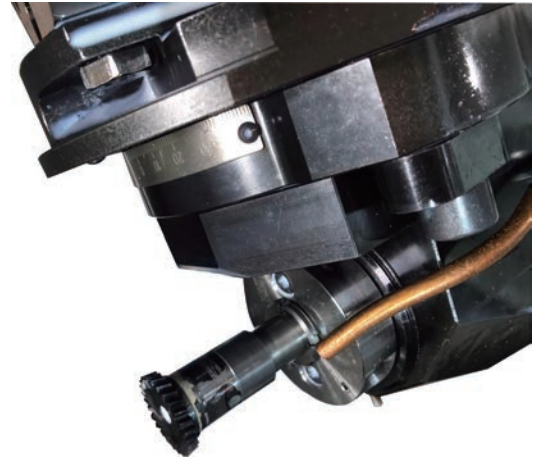
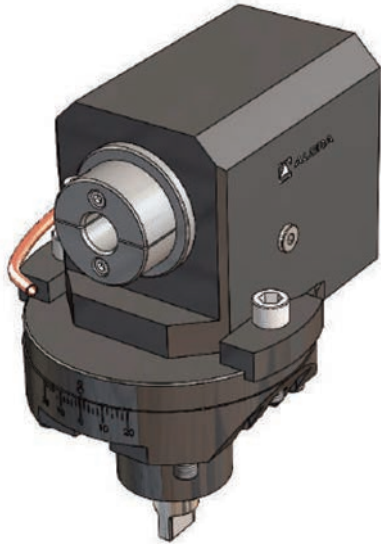
Code	D	ER	H	H1	H2	L	L1	L2	A	B	A1	B1	A2	B2	M2	n2	P
Code-Nr.															Nm	min-1	kW
RAPPDR25 121UNL/280	60	25	29	96	91	280	65	40	94	84		108		80			5000

切槽/鋸片刀座



Codice	D	d	Ds	H	H1	H2	L1	A	B	A1	B1	A2	B2	M2	n2	P
Code-Nr.														Nm	min-1	kW
RRPLT40 123UNL	60	25	125	90	142	91	165	94	84	130	108		212	150	2000	1.1

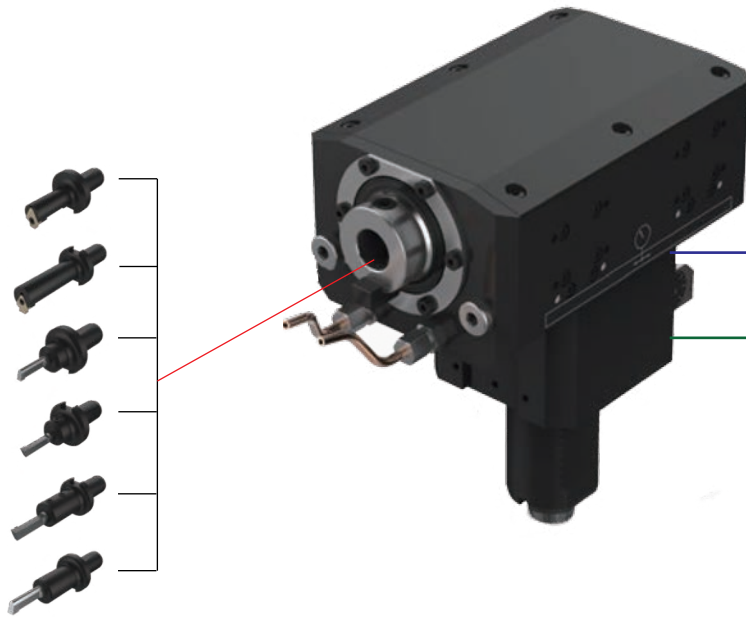
強力刮齒刀座



Codice	D	d	H	H1	H2	L	L1	L2	A	B	A1	B1	A2	B2	M <sub>2</sub>	n <sub>2</sub>	P
Code-Nr.															Nm	min-1	kW
RRPSKA20 321UNL	60	20	110	148	91	52	116		94	84	147	80		155	50	6000	

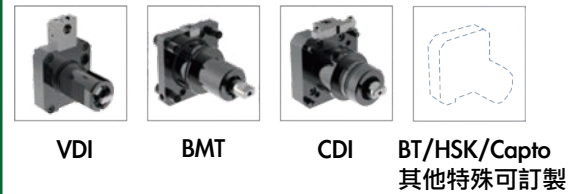


沖齒刀座/拉刀座

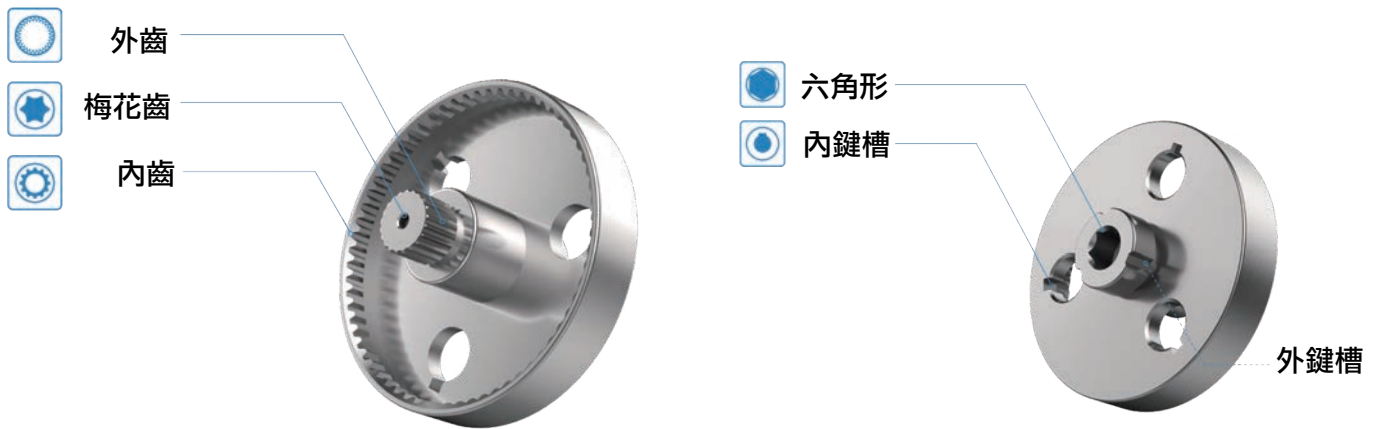


鍵槽刀具寬度MAX 8-10 mm  
速比 1:1  
進給MAX 0.15 mm  
刀塔轉速 1200 rpm

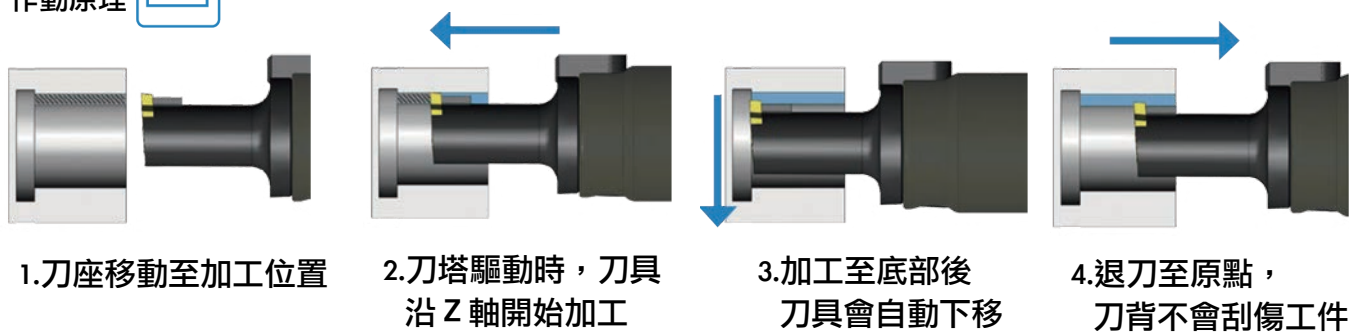
各種驅動接口



加工應用範例

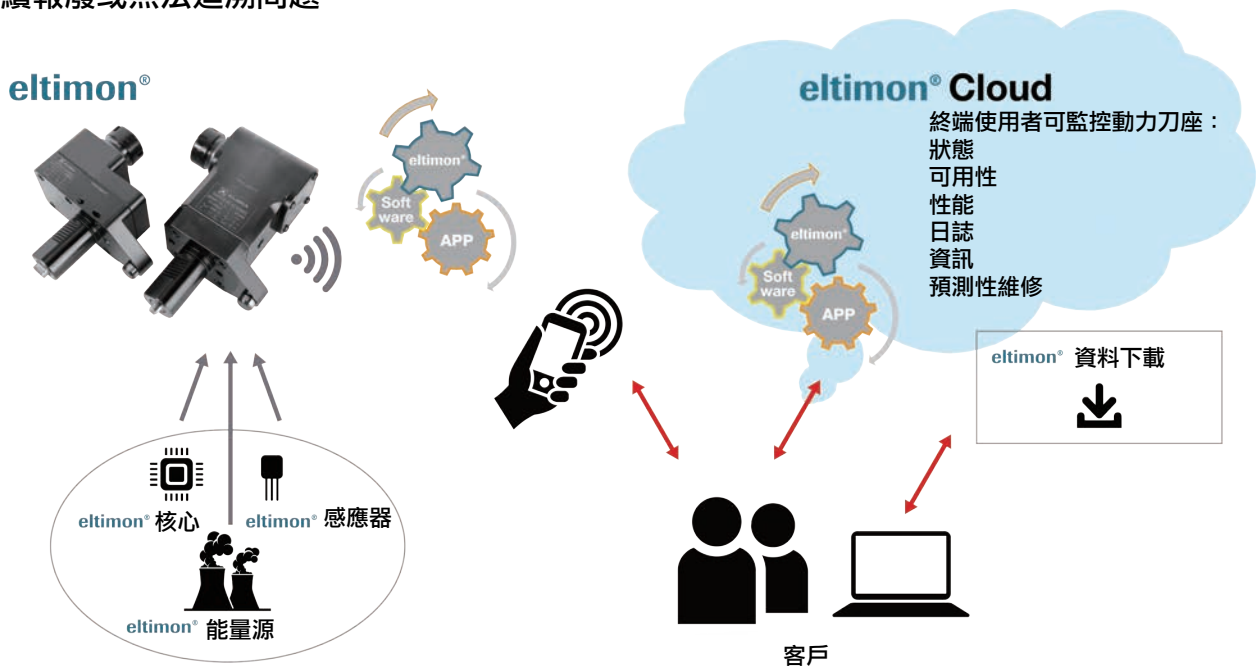


作動原理



工業4.0武器，大老闆佈局全世界工廠，  
隨時掌握最新生產進度，提升效率、稼動率，  
避免不必要的生產成本。

- 1.透過藍芽/WIFI 手機或電腦直接掌握最新機台加工狀況。
- 2.無論在國內或國外，都可以了解刀座現行是否在加工？加工多久？升溫是否正常？  
是否有震刀需要換刀座？
- 3.若有任何異常，APP會即時跳出紅色警告標示，讓客戶即時解決困擾，避免繼續生產導致工件後續報廢或無法追溯問題。



## 十秒快換夾具

### 10秒快換夾具

10 seconds quick change collet chucks



#### ▶優勢▶ Advantage

更好夾持力與剛性  
Exceptional Grip Force and Rigidity

可承受高切削能力  
More Aggressive Chip Removal Rates

縮短工件加工時間  
Faster Cycle Times

大大提升產能  
Increased Throughput

公司獲利與成長力道大幅提升  
Higher Profits

### 手動卸爪器

Collet Changing Tools



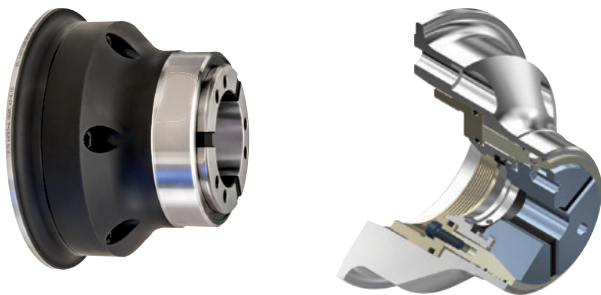
#### ▶優勢▶ Advantage

輕鬆壓放快速換置夾固頭只需數秒。  
Pressing and releasing the trigger,  
collet changes take only few seconds.

規格	32型	42型	52型	65型	80型	100型	125型	160型
TYPE	M32	M42	M52	M65	M80	M100	M125	M160

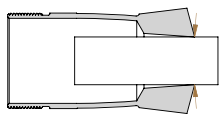
### 快換夾頭

Collet Chucks



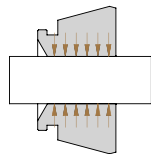
#### ▶比較▶ Comparison

- 傳統彈簧筒夾  
Traditional spring type collet



- 更換時間長  
1. Longer setup time
- 單點夾持力較不足  
2. Only single point gripping

- 快換夾固頭  
Quick Change collet



- 10秒快換  
1. Collet changes less than 10 seconds
- 整段平行夾持力提升數倍  
2. Better parallel workpiece gripping

### 銑床/五軸加工機專用夾頭

Mill/5 Axis Machining Center Chucks



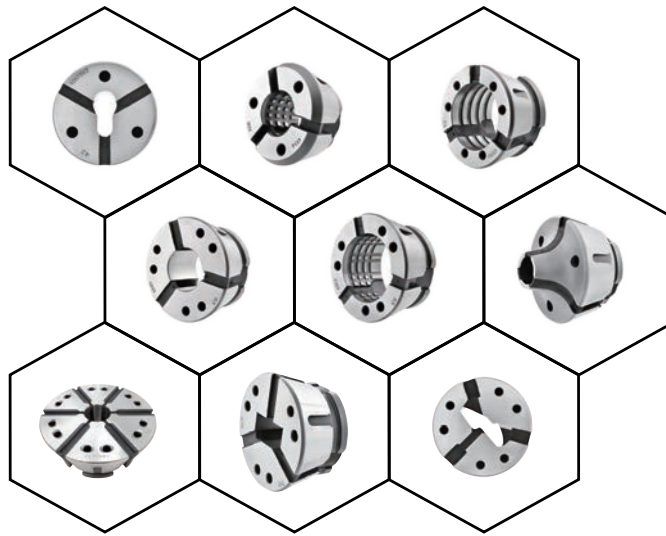
### 十秒快換

Less than 10 seconds





### 夾固頭 Collets

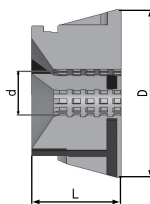


#### 優勢 Advantage

- ★ 夾固頭錐度貼合夾頭本體，在動作時呈現整段平行夾持，夾力是傳統筒夾的 5~10 倍
- ★ 硫化橡膠提供優異的彈性
- ★ 良好制震能力
- ★ 減低加工刀具磨耗
- ★ 減低夾固頭磨耗
- ★ 10 秒快換
- ★ 硬度達 HRC60 度以上，良好的剛性與壽命
- ★ 可提供特殊形狀訂製
- ★ Parallel workpiece gripping
- ★ Vulcanized rubber creates great gripping range
- ★ Reduction of vibrations
- ★ Less tool wear
- ★ Less wear on the collet
- ★ Collet changes less than 10 seconds
- ★ Heat treated up to HRC60 with vulcanized rubber, which performs best rigidity and life time
- ★ Capable of custom designed collets

### 夾固頭規格

#### Collet Specifications



A = 孔 / Bore		
L	研磨型	smooth
R	粗齒型(R)	with radial grooves
S	粗齒型(S)	with radial and longitudinal grooves
W	可修型	emergency collet

Type	Ref.	L	D	d	A	d	A	d	A
32	32L	44	57,7	4-32	L	7-27	L	7-22	L
	32R	44	57,7	8-32	R	8-27	R	8-22	R
	32S	44	57,7	11-32	S				
	32EM	44	57,7	4-32	W				

Type	Ref.	L	Ref.	L	D	d	A	d	A
42	42L	42	42BL	47	79,3	4-42	L	7-36	L
	42R	42	42BR	47	79,3	8-42	R	8-36	R
	42S	42	42BS	47	79,3	11-42	S		
	42EM	42			79,3	4-42	W		

Type	d	A
42	7-30	L
	8-30	R

※尺寸為mm  
Dimensions in mm  
※其他尺寸與特殊形狀可接單客製  
Capable of custom designed collets

Type	Ref.	L	D	d	A	d	A	d	A
52	52L	46	79,3	4-52	L	7-45	L	7-36	L
	52R	46	79,3	8-52	R	8-45	R	8-36	R
	52S	46	79,3	11-52	S				
	52EM	46	79,3	4-52	W				

Type	Ref.	L	Ref.	L	D	d	A	d	A
65	65L	53	65BL	58	99,5	4-65	L	7-56	L
	65R	53	65BR	58	99,5	8-65	R	8-56	R
	65S	53	65BS	58	99,5	11-65	S		
	65EM	53			99,5	4-65	W		

Type	d	A
65	7-46	L
	8-46	R

Type	Ref.	L	D	d	A	d	A	d	A
80	80L	53	114,5	4-80	L	7-68	L	7-56	L
	80R	53	114,5	8-80	R	8-68	R	8-56	R
	80S	53	114,5	11-80	S				
	80EM	53	114,5	4-80	W				

## 五軸/綜合中心加工配件

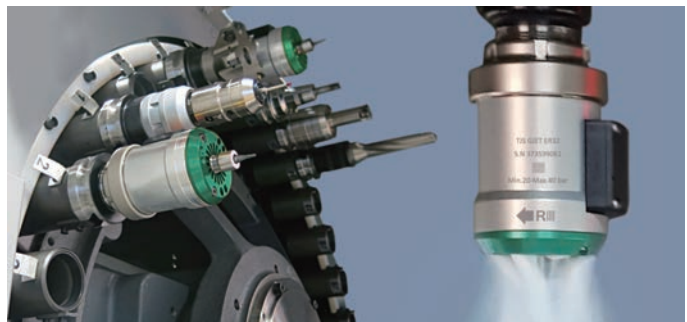
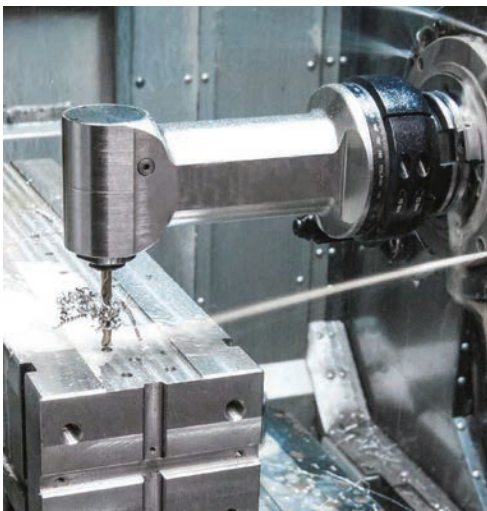
無論您是從事航太、醫療、汽車、自行車或是其他高精密的產業，  
追求更好的精度與更有效率的產能一直是我們共同努力的目標，  
更好的武器讓您面臨各式挑戰將無往不利。



◎精密刀桿 - BT / HSK / Capto接口，或輸出接口ER/側固式/面銑...等。

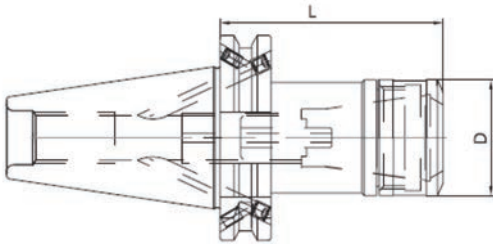
◎高剛性角度頭 - 高剛性格林森傘齒搭配精密軸承，除了精度佳外更能保有強大的切削扭力。

◎增速器 - 將刀具推升到45000rpm，您將有更強大的產能。

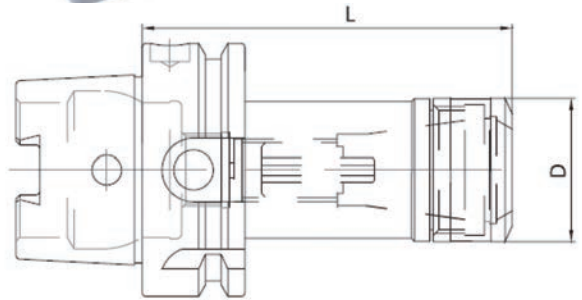




BBT雙面拘束刀桿

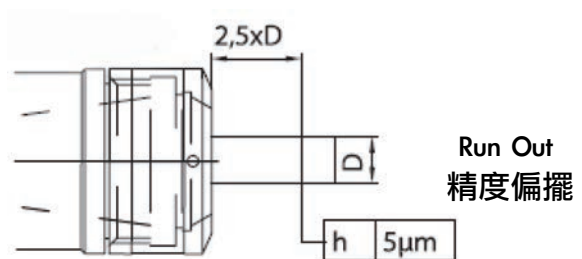
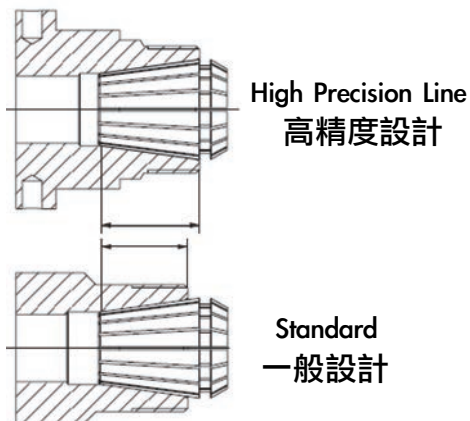


HSK精密刀桿



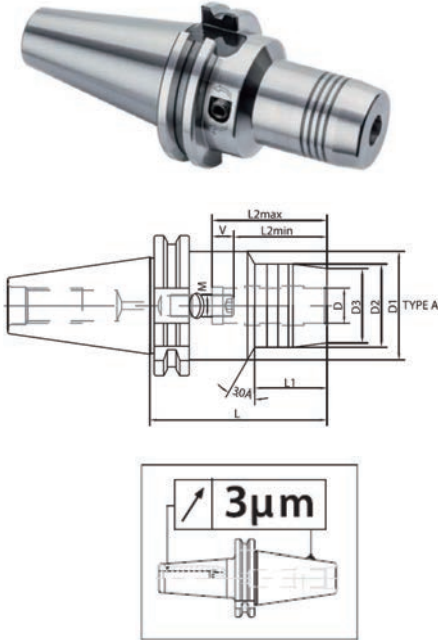
ISO	L	D	ER	G2.5/30000
40	70	30	16	●
40	70	40	25	●
40	70	50	32	●
40	100	30	16	●
40	100	40	25	●
40	100	50	32	●
50	80	30	16	●
50	80	40	25	●
50	80	50	32	●
50	100	30	16	●
50	100	40	25	●
50	100	50	32	●

HSK	L	D	ER	G2.5/30000
63	75	30	16	●
63	75	40	25	●
63	75	50	32	●
63	100	30	16	●
63	100	40	25	●
63	100	50	32	●
63	160	30	16	●
63	160	40	25	●
63	160	50	32	●
100	100	50	16	●
100	160	40	25	●
100	160	50	32	●



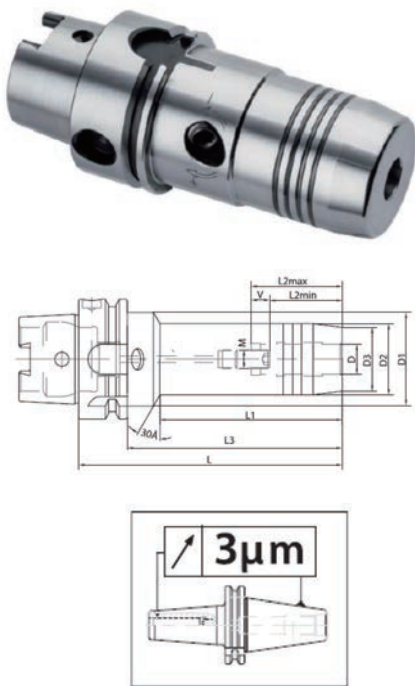


BT液壓刀桿



ISO	D	D1	D2	D3	L	L1	L2 min	L2 max	V	M	Type	G2.5 25000
40	6	50	28	25	80.5	44	27.5	37.5	10	M5X0.8	A	●
40	6	50	28	25	110	44	27.5	37.5	10	M5X0.8	A	●
40	8	50	30	27	80.5	44	27.5	37.5	10	M6X1	A	●
40	8	50	30	27	110	44	27.5	37.5	10	M6X1	A	●
40	10	50	32	29	80.5	44	32.5	42.5	10	M6X1	A	●
40	10	50	32	29	110	44	32.5	42.5	10	M6X1	A	●
40	12	50	34	31	80.5	44	37.5	47.5	10	M6X1	A	●
40	12	50	34	31	110	44	37.5	47.5	10	M6X1	A	●
40	14	50	36	33	80.5	44	37.5	47.5	10	M6X1	A	●
40	14	50	36	33	110	44	37.5	47.5	10	M6X1	A	●
40	16	50	38	35	80.5	48	42.5	52.5	10	M8X1	A	●
40	16	50	38	35	110	48	42.5	52.5	10	M8X1	A	●
40	18	50	41	38	80.5	30	42.5	52.5	10	M8X1	A	●
40	18	50	41	38	110	48	42.5	52.5	10	M8X1	A	●
40	20	50	43	40	80.5	48	42.5	52.5	10	M8X1	A	●
40	20	50	43	40	110	48	42.5	52.5	10	M8X1	A	●

HSK液壓刀桿



HSK	D	D1	D2	D3	L	L1	L3	L2 min	L2 max	V	M	G2.5 25000
63	6	50	28	25	150	103	124	27.5	37.5	10	M5X0.8	●
63	6	50	28	25	200	103	174	27.5	37.5	10	M5X0.8	●
63	8	50	30	27	150	104	124	27.5	37.5	10	M6X1	●
63	8	50	30	27	200	104	174	27.5	37.5	10	M6X1	●
63	10	50	32	29	150	104	124	32.5	42.5	10	M6X1	●
63	10	50	32	29	200	104	174	32.5	42.5	10	M6X1	●
63	12	50	34	31	150	105	124	37.5	47.5	10	M6X1	●
63	12	50	34	31	200	105	174	37.5	47.5	10	M6X1	●
63	14	50	36	33	150	105	124	37.5	47.5	10	M6X1	●
63	14	50	36	33	200	105	174	37.5	47.5	10	M6X1	●
63	16	50	38	35	150	106	124	42.5	52.5	10	M8X1	●
63	16	50	38	35	200	106	174	42.5	52.5	10	M8X1	●
63	18	50	41	38	150	107	124	42.5	52.5	10	M8X1	●
63	18	50	41	38	200	107	174	42.5	52.5	10	M8X1	●
63	20	50	43	40	150	108	124	42.5	52.5	10	M8X1	●
63	20	50	43	40	200	108	174	42.5	52.5	10	M8X1	●



模組化接口設計  
A CHOICE OF MODULAR  
INTERCHANGEABLE ARRESTER PINS



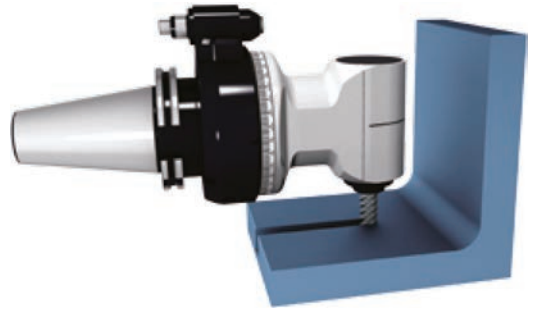
可搭配不同形式角度頭  
THE SAME MACHINE WITH MANY HEADS



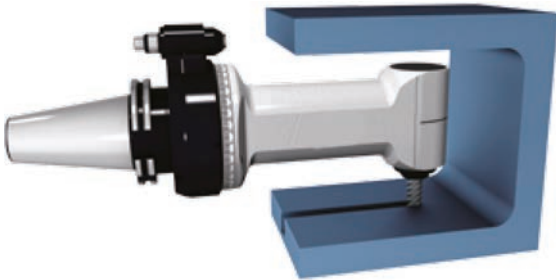




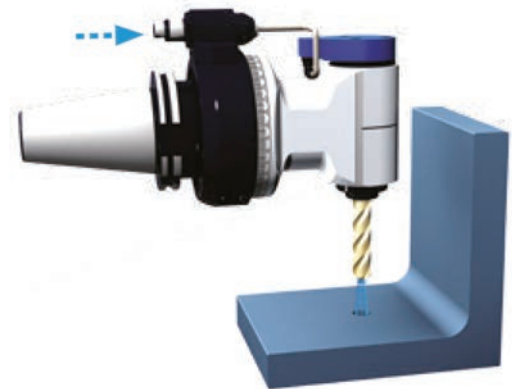
Ideal for Micromachining in narrow spaces  
在有限制的空間下加工



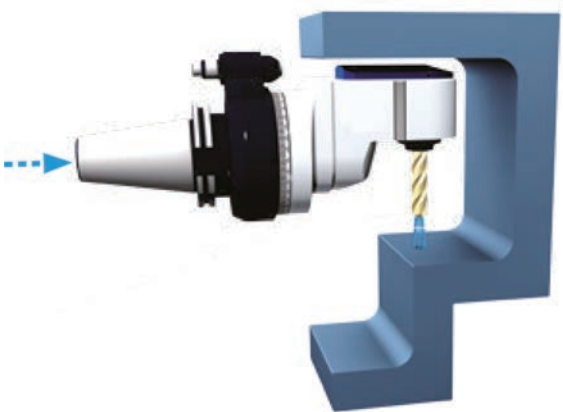
Ideal for milling, drilling, tapping at  $\pm 90^\circ$   
各式銑削，鑽孔，攻牙加工



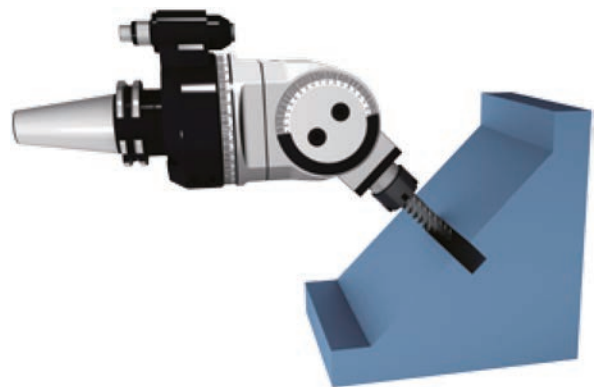
Long Series for machining at deep position  
加長型本體可在深/長空間加工



With coolant input from positioning Pin and output through the tool  
通過定位銷的切削液來達到刀具中心出水功能



Offset series for machining in narrow spaces  
with coolant input directly from machine spindle  
and output through the tool at 70 BAR  
後縮型本體可閃避空間上的干涉，  
也具有刀具中心出水功能



Adjustable output at  $\pm 90^\circ$  for tilt drilling, milling  
and tapping  
可調式角度頭適合任意角度工件加工



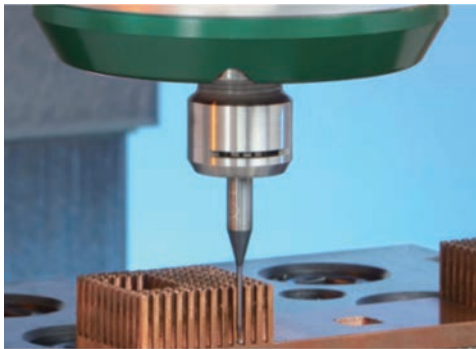
水壓增速器

▶優勢▶ Advantage

- 1.一般主軸加工僅6000-15000rpm，  
透過15 - 70bar水壓可將刀具推升到**45000rpm**，  
節省70%加工時間
- 2.各種接口可選擇 **BT/HSK/ER/Capto/直柄**
- 3.可ATC換刀，無須定位
- 4.搭配晶片傳輸顯示加工刀具轉速
- 5.優異精度達**0.003mm**



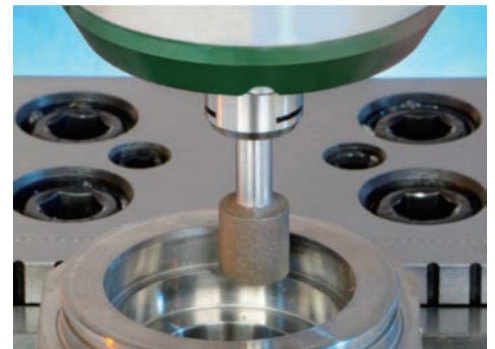
水壓增速器的應用



銑削



鑽孔



研磨



銑牙



導角



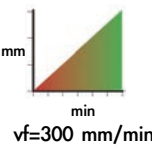
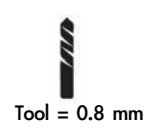
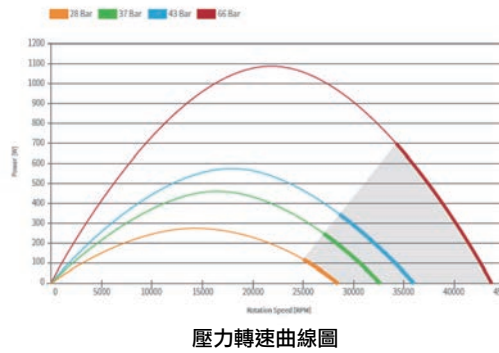
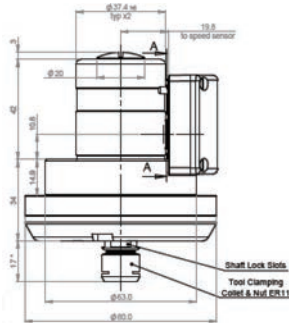
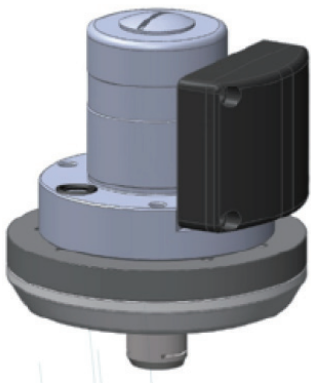
精雕

各式接口-直柄/VDI/BMT/BT/HSK/CAPTO

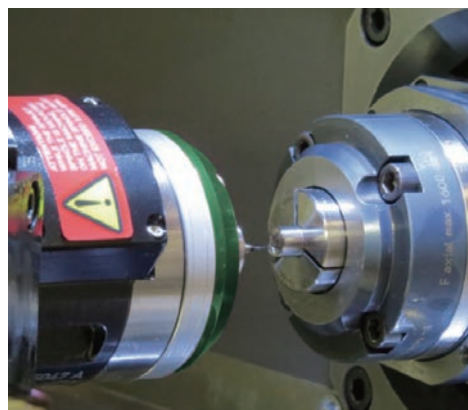
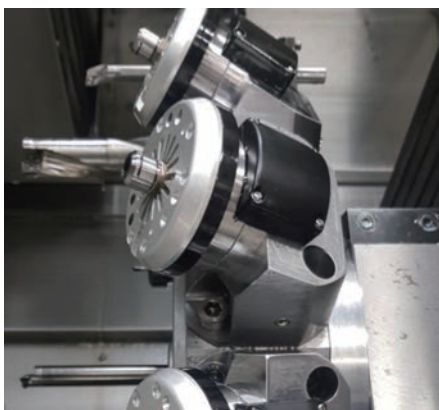
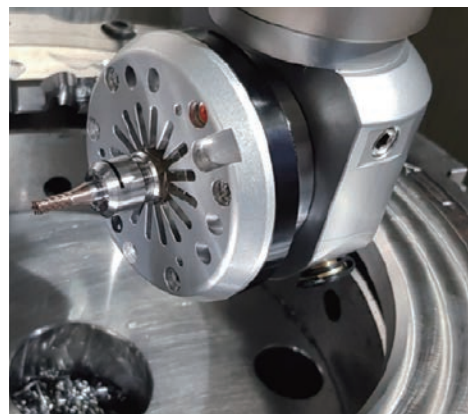
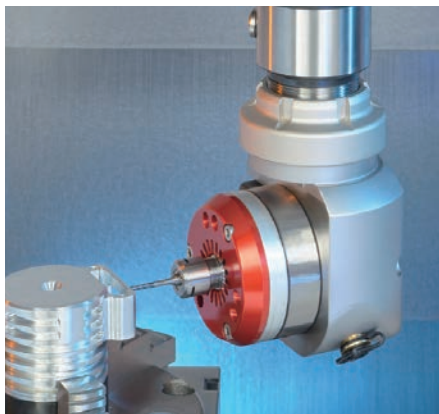


一般刀塔轉速僅4500-6000rpm ,  
 透過增速器我們將轉速推升至**15000-50000rpm**

水壓增速器



綜合加工中心應用

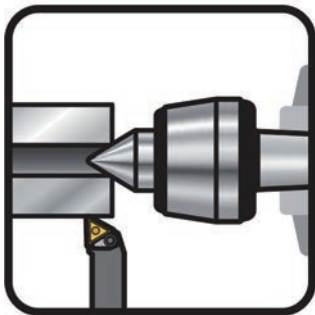
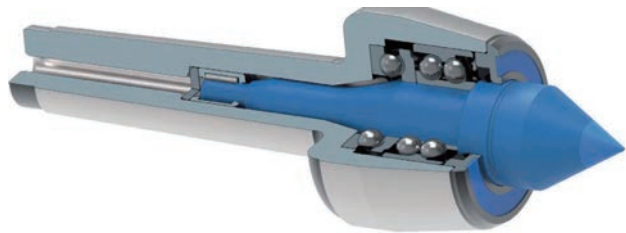


## 動力頂針-德國製造

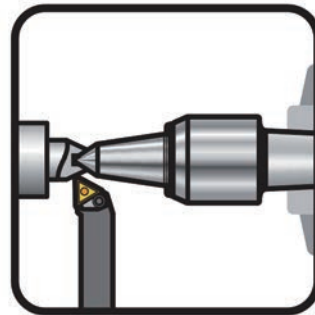


## ▶優勢▶ Advantage

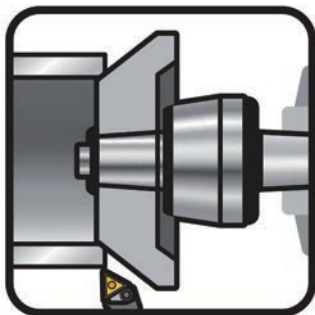
- 1.免維護免保養
- 2.精度可達0.003mm
- 3.德國鋼材，可負荷重載切削
- 4.干涉少，滿足各式工件加工需求



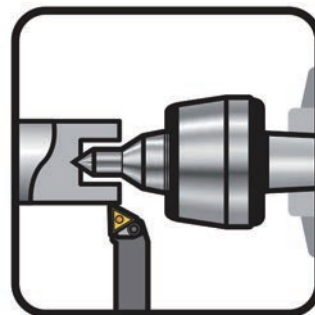
標準型頂針



延伸型頂針



大孔徑/管件式頂針



延伸減徑型頂針



	鎢鋼頂尖						鎢鋼頂尖含螺帽					
	Carbide insert						With carbide insert and draw-off nut					
莫式錐度尺寸	2	3	3	4	5	6	2	3	3	4	5	6
可承受最大工件重量(kg)	120	240	360	500	1000	1800	120	240	360	500	1000	1800
可達同心精度(mm)	0.005					0.01	0.005					0.01
可承受最大轉速 Rpm	7000	6300	5000	3800	3000	2600	7000	6300	5000	3800	3000	2600



	標準頂尖							標準頂尖含螺帽							
	Standard design							Standard design with draw-off nut							
莫式錐度尺寸	0	1	2	3	3	4	5	6	6	2	3	3	4	5	6
可承受最大工件重量(kg)	10	100	200	400	500	800	2000	3500	5000	200	400	500	800	2000	3500
可達同心精度(mm)	0.01	0.005					0.008	0.01	0.005					0.008	
可承受最大轉速 Rpm	15000	7000	7000	6300	5000	3800	3000	2600	1500	7000	6300	5000	3800	3000	2600



	延伸式頂尖						延伸減徑頂尖				低負荷型		
	Extended centrepoint						Extended centre point, profiled				Low profiled		
莫式錐度尺寸	1	2	3	4	5	6	2	3	4	5	3	4	5
可承受最大工件重量(kg)	80	140	400	500	1200	2500	100	150	180	280	300	500	630
可達同心精度(mm)	0.01	0.005				0.01	0.005				0.005		
可承受最大轉速 Rpm	7000	7000	5000	3800	3000	2600	7000	5000	3800	3000	8500	6000	4500



	帶錶壓力型				帶錶壓力型延伸頂尖				快換式頂尖					
	Standard design				Extended centre point				Interchangeable inserts					
莫式錐度尺寸	3	4	5	6	3	4	5	6	2	3	3	4	5	6
可承受最大工件重量(kg)	400	800	1600	3200	260	550	1100	2500	40	130	150	250	650	900
可達同心精度(mm)	0.01			0.015	0.01			0.015	0.01					0.015
可承受最大轉速 Rpm	4000	3500	2500	1800	4000	3500	2500	1800	7000	6300	5000	3800	3000	2600



	重載型 Standard design			重載型含螺帽 Standard design with draw-off nut			延伸式鎢鋼頂尖 Extended centre point, with carbide insert						
	4	5	6	4	5	6	2	3	4	5			
莫式錐度尺寸													
可承受最大工件重量(kg)	1000	2000	3000	1000	2000	3000	100	100	250	250			
可達同心精度(mm)		0.005			0.005				0.01				
可承受最大轉速 R pm	7000	6000	4800	7000	6000	4800	12000	12000	9000	9000			



	減徑本體型 Standard design					減徑本體延伸式頂尖 Extended centre point					減徑本體減徑式頂尖 Extended centre point profiled			
	2	3	4	5	6	2	3	4	5	6	2	3	4	5
莫式錐度尺寸														
可承受最大工件重量(kg)	200	400	800	1600	3500	170	340	700	1400	3000	50	100	150	180
可達同心精度(mm)		0.005		0.01	0.02		0.008		0.01	0.02		0.008		0.01
可承受最大轉速 R pm	7000	7000	6300	4300	3000	7000	7000	6300	4300	3000	7000	7000	6300	4300

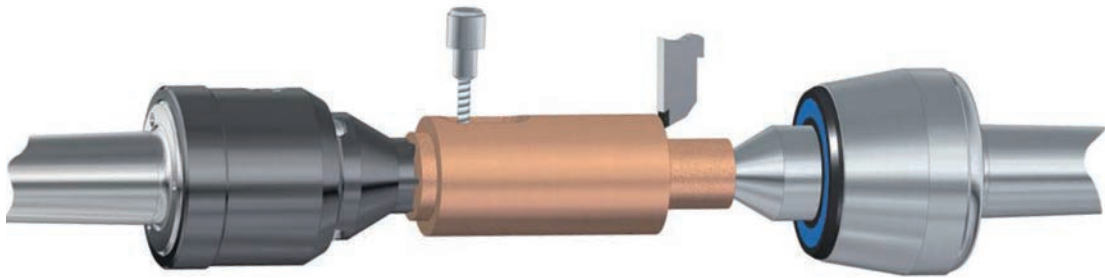
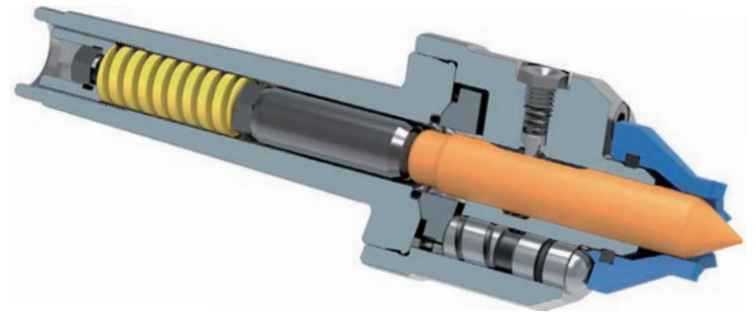


	直柄式 Cylindrical shank			超高精密度 3μ 型 High precision design				
	20	25	32	2	3	4	5	6
莫式錐度尺寸								
可承受最大工件重量(kg)	130	200	400	200	500	800	2000	3500
可達同心精度(mm)		0.005				0.003		
可承受最大轉速 R pm	7000	5000	3800	7000	5000	3800	3000	2600

長心軸加工利器 - 驅動頂針 + 動力頂針

▶優勢▶ Advantage

- 1.免維護免保養
- 2.精度可達0.01mm
- 3.德國鋼材，可負荷重載切削
- 4.由端面驅動，可取代夾頭來滿足因干涉而無法加工的區域

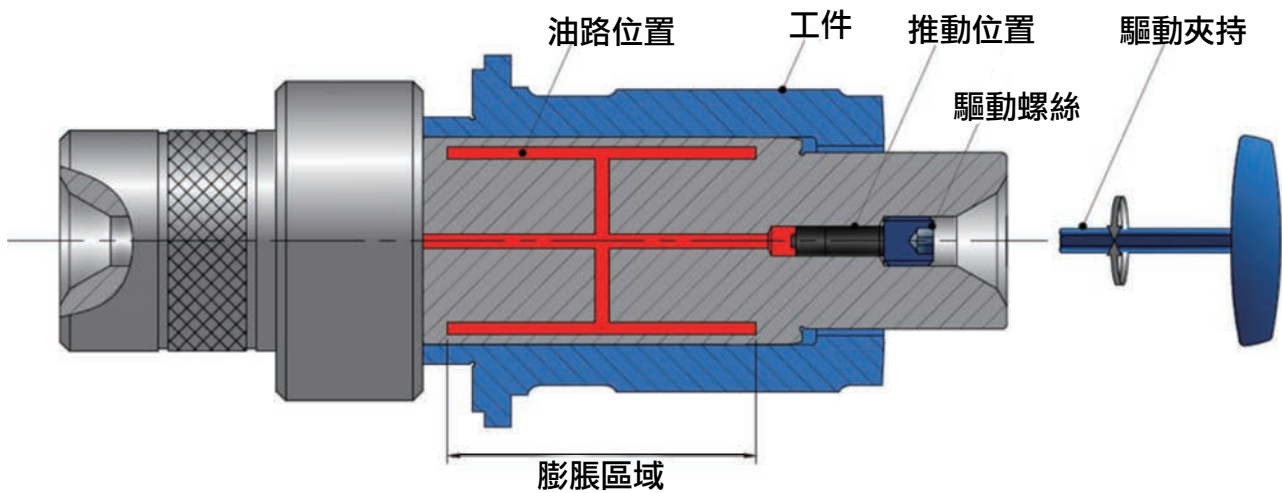


加工型態	車+銑一次加工	車削	車削
	專利補償式設計，無軸向背隙		法蘭式驅動頂針適用於大工件或大重量加工
可達精度	0.01 mm 以下	0.015 mm 以下	0.01 mm 以下
可負荷工件重量	100 kg 以上	100 kg 以上	350 kg 以上
工件直徑範圍	8-80 mm	8-80 mm	8-80 mm

## 油壓膨脹心軸

## 油壓膨脹心軸

1. 快速夾持
2. 高精度可達0.003mm以下偏擺
3. 高扭力傳輸
4. 穩定且壽命佳
5. 操作簡單
6. 適用於 滾齒/研磨/檢測/內外徑夾持/車銑磨加工/定位





### 滾齒夾持

1. 精度表現  $\leq 0.003 \text{ mm}$ ，如有特殊需求可以更低
2. 應用於各式夾持
3. 可搭配襯套
4. 可透過螺絲來微調以獲得更精確的膨脹範圍
5. 可依客戶需求無論是由頂部或者底部來完成驅動設計



### 齒輪研磨

1. 精度表現  $\leq 0.003 \text{ mm}$ ，如有特殊需求可以更低
2. 可手動或尾座驅動夾持
3. 可用於光滑孔 & 齒型孔夾持
4. 可搭配襯套

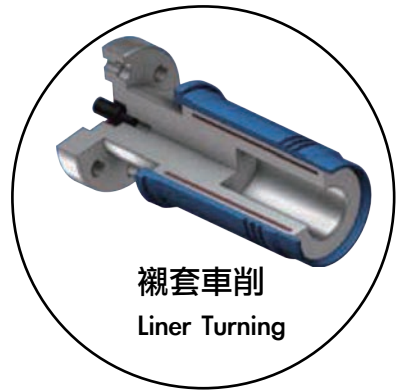
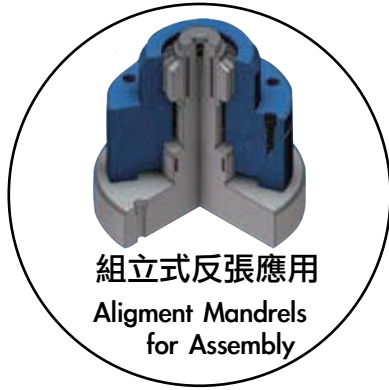
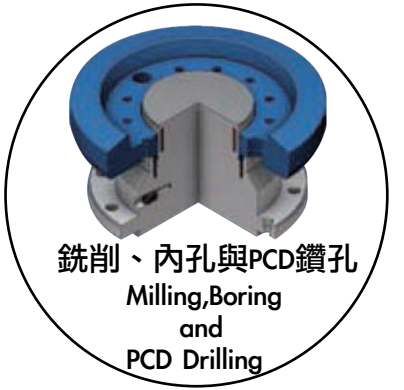
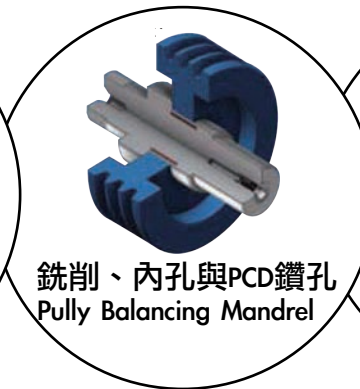
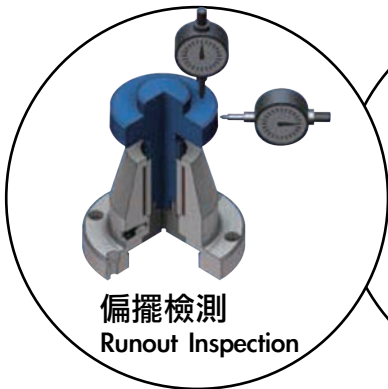
### 剃齒（藉由機台尾座驅動夾持）

1. 可用於自動上下料
2. 精度小於  $0.003 \text{ mm}$
3. 可透過螺絲來微調獲得更精確的膨脹範圍
4. 可搭配導套

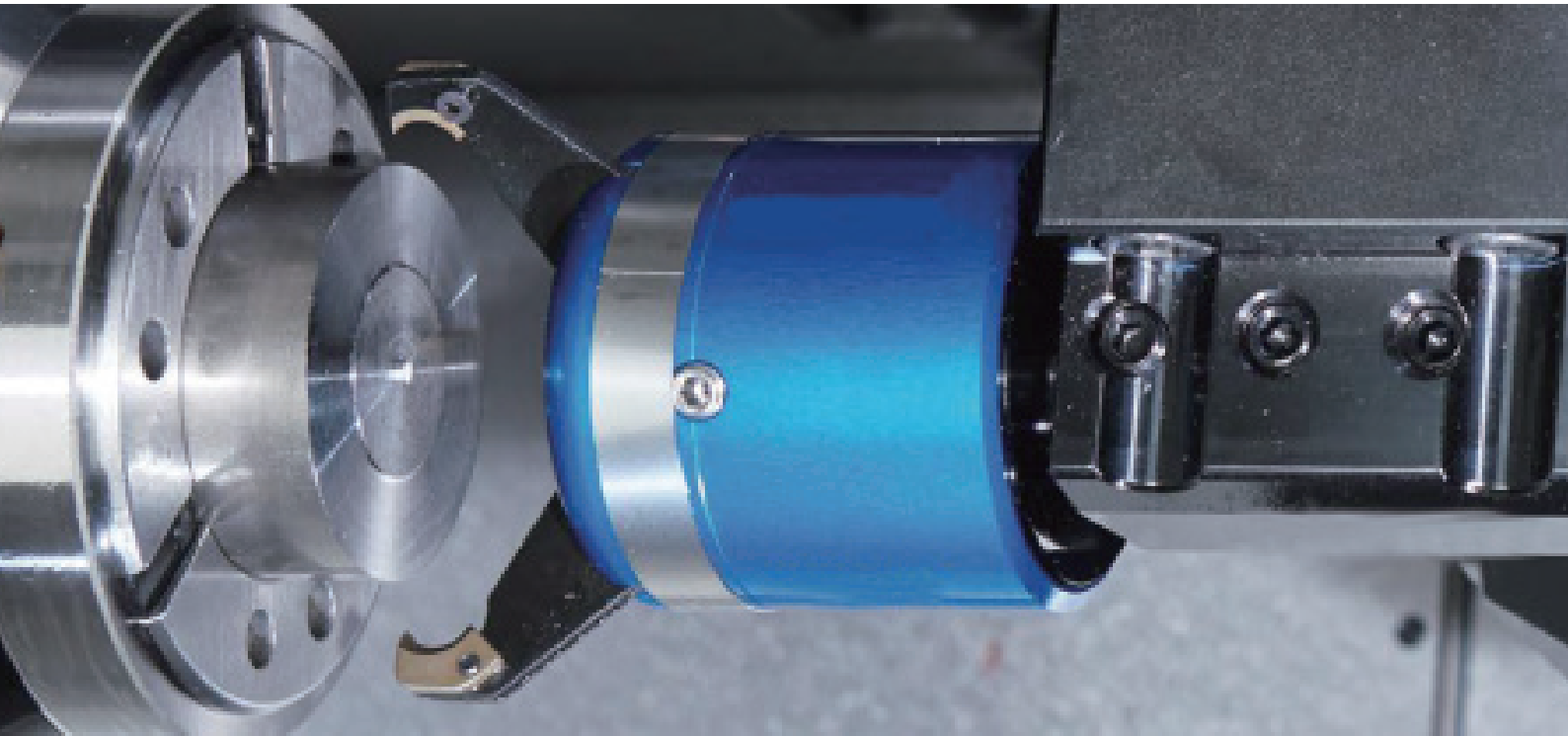


### 剃齒（雙邊頂中心夾持）

1. 將心軸分成兩邊，透過手動或尾座驅動夾持
2. 精度表現達  $0.005 \text{ mm}$
3. 可透過螺絲來微調獲得更精確的膨脹範圍
4. 可搭配導套
5. 適用於光滑孔 & 齒型孔



## 水壓抓料器

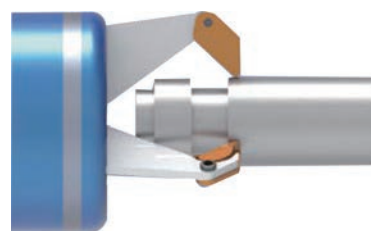
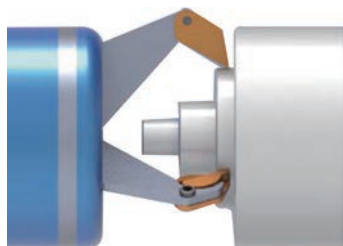
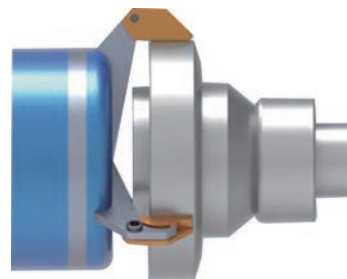
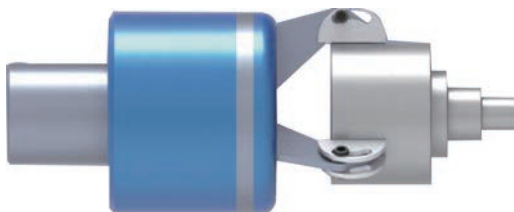


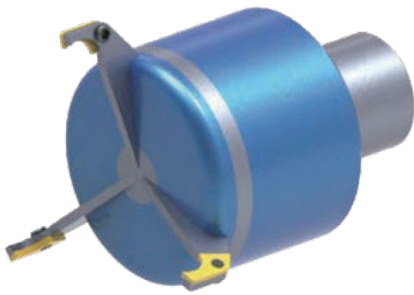
## 水壓抓料器

1. 可用冷卻液或壓縮空氣來驅動
2. 快速安裝，無需另外安裝其他件
3. 夾爪可以很靠近夾具，棒材殘材短
4. 直接安裝機台切削水即可使用
5. 可直接夾持六腳棒材
6. 只需0.5 Bar就可驅動

## Gripper

1. Stationed at the turret
  2. Driven by coolant
- Controlled by the NC-PROGRAMME





標準型本體

φ 2 - 60 mm

φ 3 - 80 mm

φ 7 - 105 mm



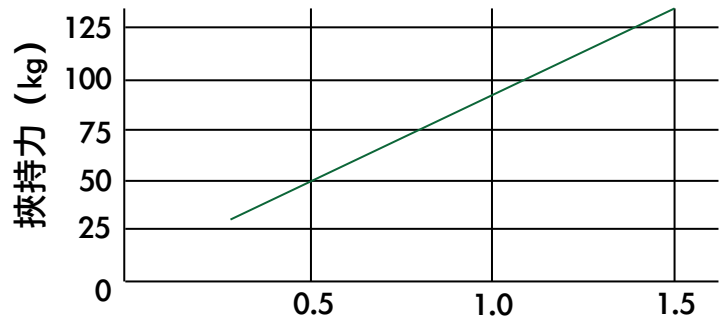
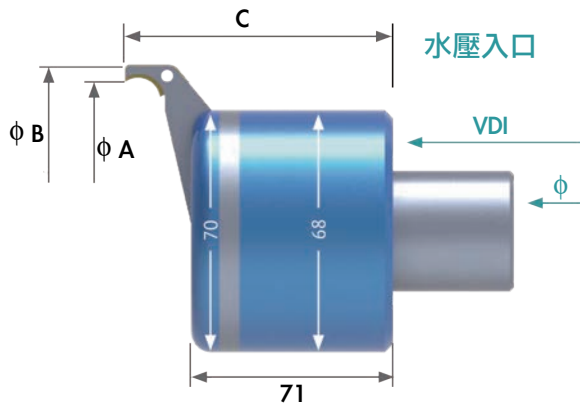
小型本體

φ 2 - 52 mm



迷你型本體

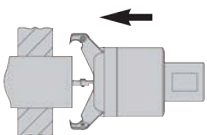
φ 0 - 38 mm



	φ A	φ B	C
2 - 60 mm	64 mm	83 mm	89 mm
3 - 80 mm	83 mm	102 mm	94 mm
7 - 105 mm (Option)	110 mm	129 mm	108 mm

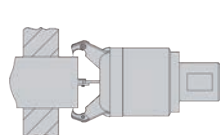
水壓壓力 (Bar)

使用步驟



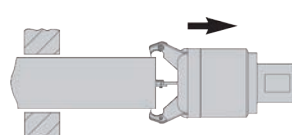
Step 1. 快速接近  
工件

Grippex approaches  
bar to be pulled



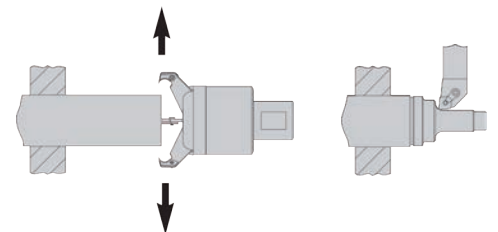
Step 2. 開啟切削水  
夾住工件

Coolant ON for  
Grippex to clamp



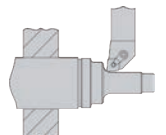
Step 3. 鬆開夾具後  
拉取工件

Chuck unclamp, turret  
moves back along Z-axis  
and stops exactly at  
programmed position



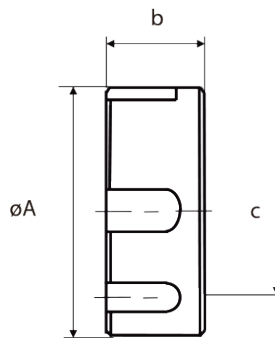
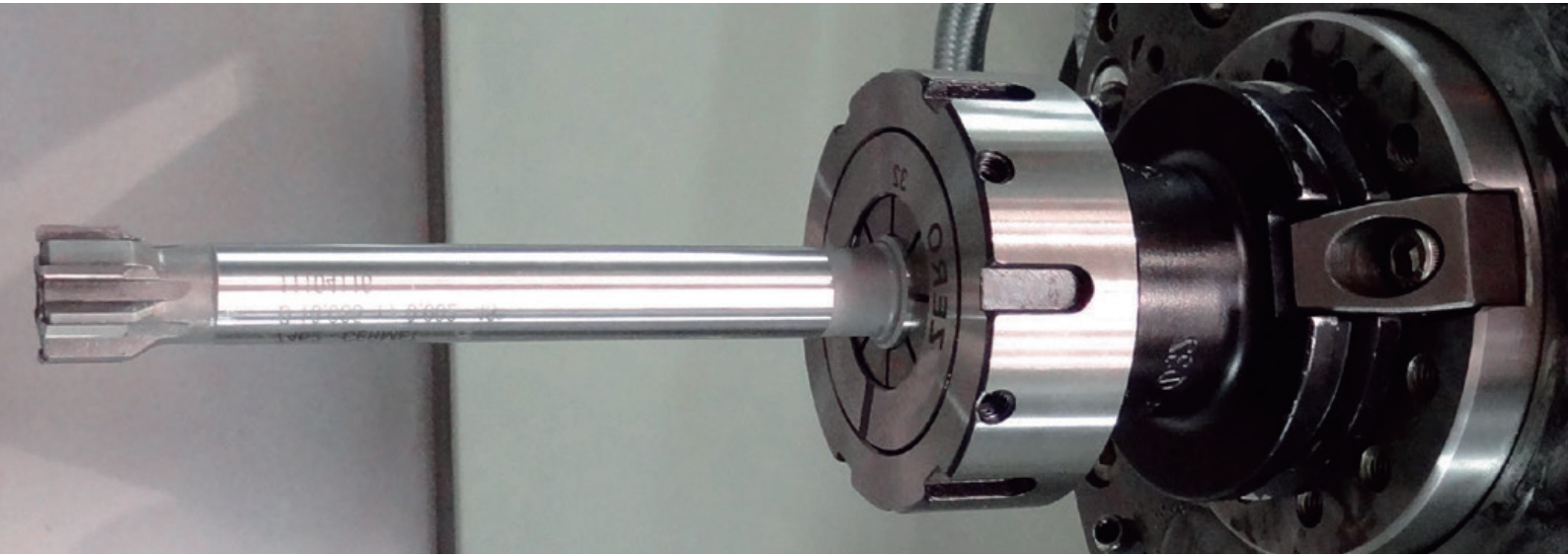
Step 4. 夾持工件，  
關閉水壓

Chuck clamp;  
coolant OFF.  
Grippex unclamp;  
turret retracts



Step 5. 啟動程式  
加工工件

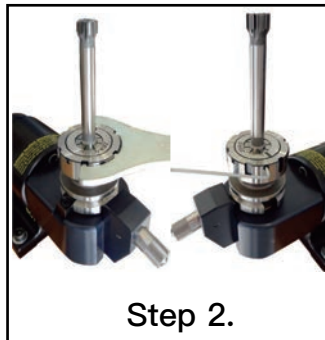
Being machining  
new par



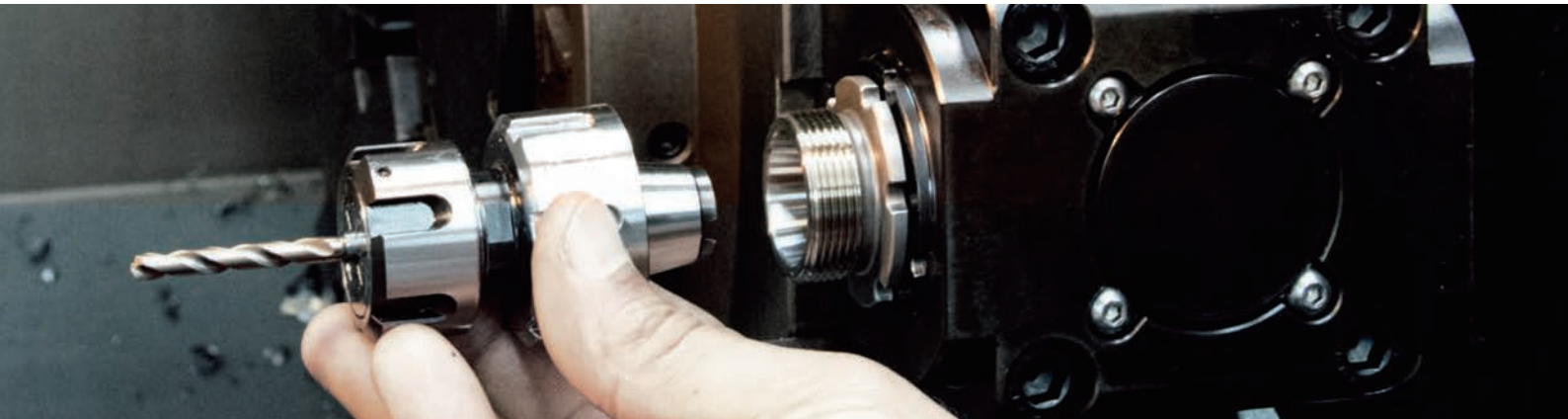
	最大夾持	$\phi a$	b	調整螺絲尺寸
ER 16	10 mm	34 mm	20 mm	2.0 mm
ER 20	13 mm	42 mm	20 mm	2.0 mm
ER 25	16 mm	50 mm	22 mm	2.5 mm
ER 32	20 mm	63 mm	23 mm	2.5 mm
ER 40	30 mm	79 mm	28 mm	3.0 mm

### 使用方式

1. 先放鬆調整螺絲
2. 將刀具鎖上後，再鎖上側邊的調整螺絲
3. 測量要歸零的刀具現行偏擺精度
4. 調整側邊螺絲偏擺精度校正到所需要的精度
5. 完成



## 模組化快換系統



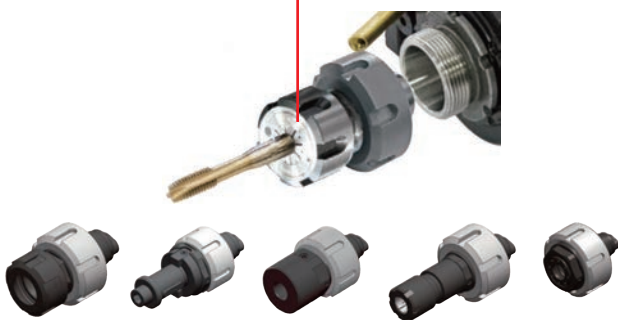
### 專利快換系統

1. 減少換刀時間，提升加工效率！
2. 萬用模組化高扭力快換系統！
3. 不綁規 - 可用於市面上任何品牌
  - ER系統 - VDI/BMT刀座
  - BT/HSK角度頭與刀桿
4. 替換簡單
5. 減少客戶開銷
6. 用於盟鈦ALGRA動力刀座 更有**雙面拘束剛性**設計
7. 無論中心出水或外部出水，皆可適用



### 外牙式快換系統

#### 專利軸承螺帽



### 內牙式快換系統

#### 專利軸承螺帽



#### 軸承螺帽

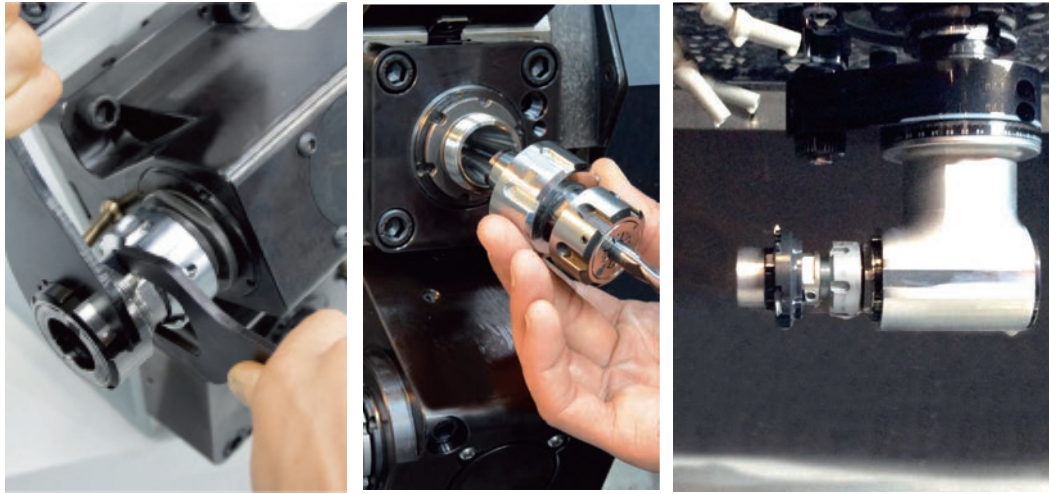


用於Algra刀座，採雙面拘束專利設計  
傳輸扭力更提升





模組化快換系統-適用所有ER系統-不限品牌



### 應用於金屬加工

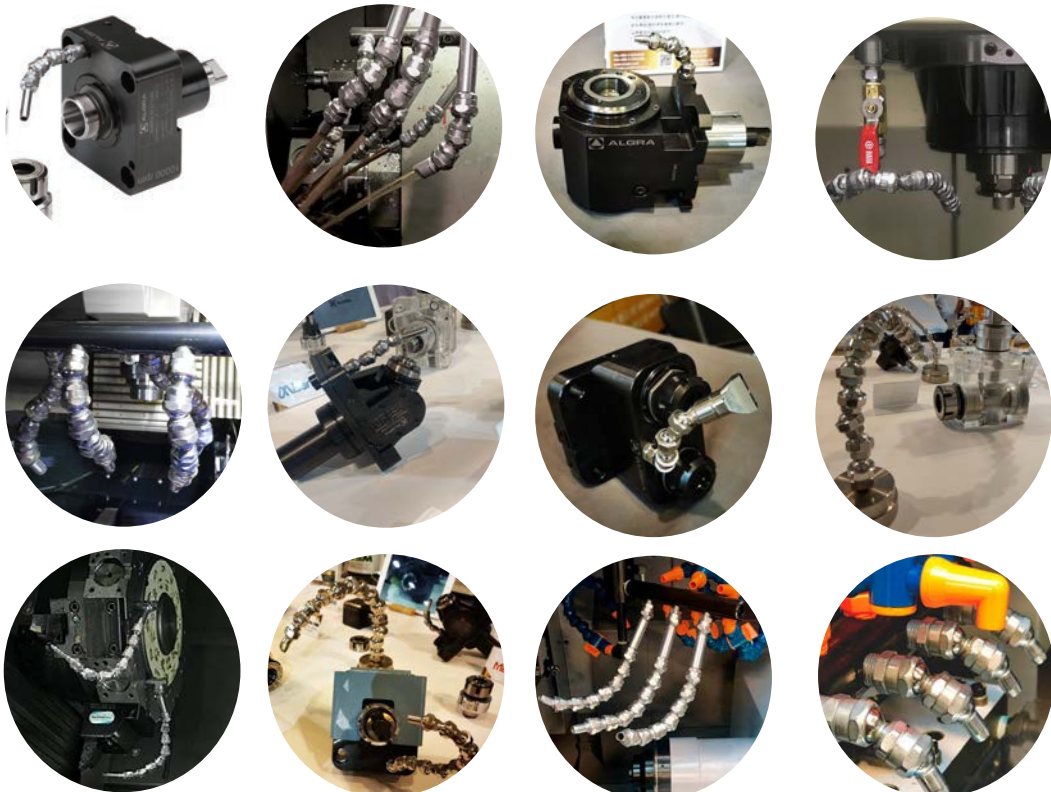
[ 給水、給油、吹氣 ]

可結合各式噴嘴、本體、延長桿、接頭

不鏽鋼萬向曲管

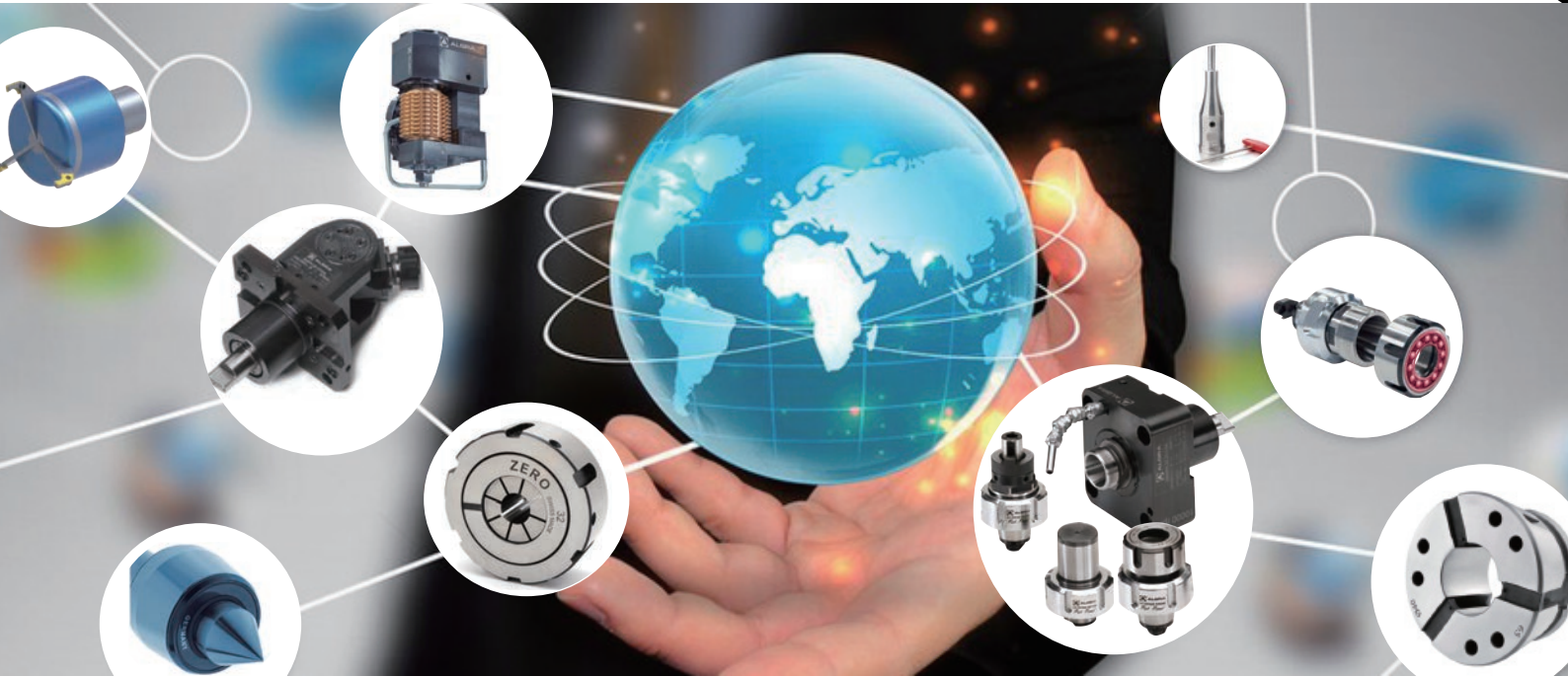
特性：

- 1.可無限延伸、調整任意角度
- 2.可承受100 Bar超高壓力
- 3.耐高溫
- 4.抗腐蝕
- 5.剛性強
- 6.不滲水
- 7.不位移



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