

Tooling System

Holding Your Future



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www.annwaytools.com.tw



Ann Way Machine Tools Co., Ltd. was founded in 1979. We manufacture cutting tools and cutting tool holders for conventional and CNC machine tools. Our main products include,

- Boring and milling cutting tools
- ER collet chucks
- Milling chucks
- Keyless drill chucks
- ER, OZ, SC collet chucks
- Boring chucks
- BT, HSK, DIN, ANSI testing tools

Our ASK, ADS, AVC and ASG series products meet the demands of high speed, high precision machining.

We have invested heavily over the years in our own manufacturing facilities and are ISO9001 certified. Our R&D department is always active and ready to offer new high quality products. You can find Ann Way cutting holders and cutting tools in the USA, Canada, the UK, Germany, France, Switzerland, Italy, Australia, Turkey and Southeast Asia. We actively keep innovating, developing, and enterprising to offer good product quality and serve all customers.

安威機具自1979年成立以來，堅持品質、以客為尊的誠信經營，已凝聚成一股以品質為上策的企業精神。秉持著創新突破的精神，安威持續在產品上精進提昇；近年來，為符合國際市場數控機械、高精密、高轉速的需求，成功研發出高速切削ASK、ADS、ASG、AVC等系列產品，能充分配合高轉速切削刀具，目前已廣泛應用於平衡度高、精度好的精密機械。另外，在粗搪、精搪、大小口徑搪頭方面，亦持續推出多樣化產品，廣受業界好評。更重要的是，安威擁有國際標準規格的檢驗模具BT、HSK、DIN、ANSI，使產品更能合乎國際市場的嚴苛要求。而於2003年通過ISO 9001認證，亦使得安威在品質掌控、行政與生產管理、客戶服務與技術支援等各方面，確實發揮加乘效果。優質的產品深得國內外客戶肯定，成功行銷美國、加拿大、義大利、英國、德國、法國、澳洲、瑞士等全球多個國家。『用實力證明價值，以實績創造品牌』，安威持續以一種打造機械配件精工品質的態度，踩著穩健的步伐，邁向企業永續經營之路！



ON-LINE FULL HD



Watch Ann Way company introduction at: www.machinetools.net.tw. Select **VIDEOS & BROADBAND**, then enter **M35700**

請上網 www.machinetools.net.tw 選擇 **VIDEOS**，輸入編號 **M35701** 即可立即觀看公司簡介動態影片。

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ER Spring Collet Chuck 彈性筒夾本體



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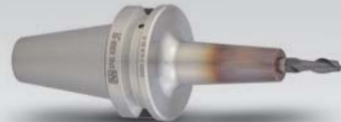
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SLA / EM End Mill Holder 側固端銑刀桿



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APU Drill Chuck Holder 直截式鑽夾頭刀桿



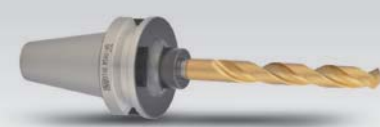
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MTA / MTB Morse Taper Holder 莫氏錐度刀桿



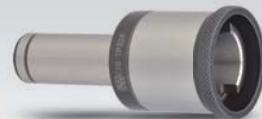
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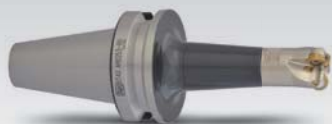
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ABJ / NBJ Boring Head 微調搪孔頭



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HBOR Micro Boring System 微調搪孔系統組



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HBOR Micro Boring System 微調搪孔系統組



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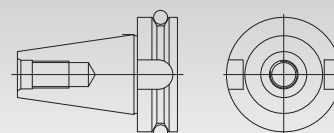
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Pull Stud 拉頭



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Technical Information 錐度柄規格表



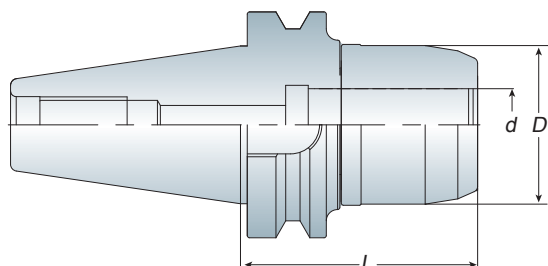
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BT / NT
series

AMG

Double Power Chuck

超倍力夾頭刀桿



Jet through
端面出水



Features

- AMG tooling system is suitable for high speed and heavy cutting simultaneously.
- AMG tooling system is special designed for coolant type - JET THROUGH.
- High precision clamping because of the design of needle roller bearing.
- The spacer could make the flange & nut be tightened and provide exceptional rigidity.
- Wrench must be ordered separately.
- Max speed: 30,000 r.p.m G2.5
- AMG 刀桿系列可同時在高速切削及重切削上使用
- AMG 刀具系列為端面給油設計
- 刀桿採用針狀軸承設計，夾持度極佳
- 螺帽透過墊片與本體貼合使之提高剛性
- 扳手為另購品
- 最高轉速可達 30,000 r.p.m G2.5

Model No.	d	D	L	Wrench	Weight (kg)
BT30 AMG12-080	12	46	80	WAMG12	1.10
AMG16-095	16	54	95	WAMG16	1.30
AMG20-095	20	58	95	WAMG20	1.60
AMG25-100	25	62	100	WAMG25	1.80
AMG32-095	32	70	95	WAMG32	2.00
BT40 AMG12-080	12	46	80	WAMG12	1.60
-105	12	46	105	WAMG12	2.00
AMG16-080	16	54	80	WAMG16	1.80
-105	16	54	105	WAMG16	2.30
AMG20-095	20	58	95	WAMG20	2.00
-105	20	58	105	WAMG20	2.30
AMG25-095	25	62	95	WAMG25	2.20
AMG32-090	32	70	90	WAMG32	2.30
-105	32	70	105	WAMG32	2.60
BT50 AMG12-105	12	46	105	WAMG12	4.60
-135	12	46	135	WAMG12	5.10
-165	12	46	165	WAMG12	5.80
AMG16-105	16	54	105	WAMG16	4.90
-135	16	54	135	WAMG16	5.50
-165	16	54	165	WAMG16	6.50
AMG20-105	20	58	105	WAMG20	4.90
-135	20	58	135	WAMG20	5.60
-165	20	58	165	WAMG20	6.50
AMG25-105	25	62	105	WAMG25	4.90
-135	25	62	135	WAMG25	5.70
-165	25	62	165	WAMG25	6.70
AMG32-105	32	70	105	WAMG32	5.00
-135	32	70	135	WAMG32	5.80
-165	32	70	165	WAMG32	6.70

Unit: mm



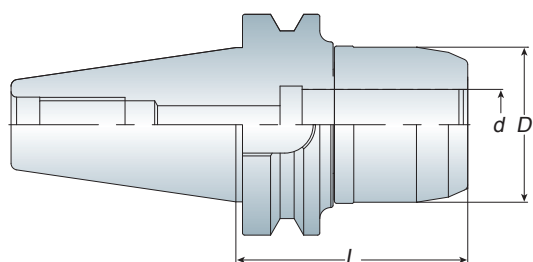
- **AMG Double Power Chuck** with nut for C-WRENCH is available.
- Please change name from AMG to AMC of each model no. when ordering.
- 螺帽部分為 C 型系列，訂購時，請更改品名為 AMC
- Example: BT40 AMC16-080

High Speed Milling Chuck

高轉速強力銑刀夾頭刀桿

ASG

BT / NT
series



Features

- ASG tooling system is suitable for high speed and high precision cutting.
- When using without collet, ASG tooling system is designed for coolant type - THROUGH TOOLS.
- Dust-proof design could extend tool holder lifetime.
- Wrench must be ordered separately.
- Max speed: 30,000 r.p.m G2.5
- ASG 刀具系列適用於高轉速、高精密切削加工，切削效果佳
- 在沒有搭配筒夾的情況下使用，ASG 刀具系列為刀尖給油設計
- 特殊防塵設計，提升刀桿壽命
- 扳手為另購品
- 最高轉速可達 30,000 r.p.m G2.5

Model No.	Clamping Range	d	D	L	Collet Type	Weight (kg)
BT30 ASG12-070	3~12	12	35	70	SC12	1.10
ASG16-080	3~16	16	46	80	SC16	1.10
ASG20-085	4~20	20	54	85	SC20	1.40
BT40 ASG12-080	3~12	12	35	80	SC12	1.40
-095	3~12	12	35	95	SC12	1.50
-120	3~12	12	35	120	SC12	1.80
ASG16-080	3~16	16	46	80	SC16	1.60
-105	3~16	16	46	105	SC16	2.00
-135	3~16	16	46	135	SC16	2.40
ASG20-080	4~20	20	54	80	SC20	1.80
-105	4~20	20	54	105	SC20	2.30
-135	4~20	20	54	135	SC20	2.90
ASG25-090	6~25	25	58	90	SC25	2.00
-120	6~25	25	58	120	SC25	2.60
ASG32-105	6~32	32	68	105	SC32	2.40
-135	6~32	32	68	135	SC32	3.20
BT50 ASG12-090	3~12	12	35	90	SC12	4.10
-110	3~12	12	35	110	SC12	4.30
-135	3~12	12	35	135	SC12	4.40
ASG16-090	3~16	16	46	90	SC16	4.40
-110	3~16	16	46	110	SC16	4.70
-135	3~16	16	46	135	SC16	4.90
-150	3~16	16	46	150	SC16	5.20
ASG20-090	4~20	20	54	90	SC20	4.50
-110	4~20	20	54	110	SC20	5.00
-135	4~20	20	54	135	SC20	5.30
-150	4~20	20	54	150	SC20	5.40
ASG25-110	6~25	25	58	110	SC25	5.00
-150	6~25	25	58	150	SC25	5.40
ASG32-110	6~32	32	68	110	SC32	5.10
-150	6~32	32	68	150	SC32	6.40

Unit: mm



P6- Wrench

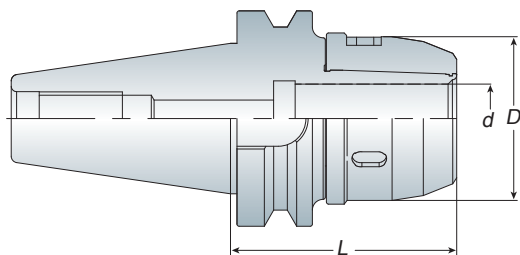
P6- SC Collet

BT / NT
series

ASC

High Speed Milling Chuck

高轉速強力銑刀夾頭刀桿



Features

- ASC tooling system is suitable for high speed and high precision cutting.
- When using without collet, ASC tooling system is designed for coolant type - THROUGH TOOLS.
- Dust-proof design could extend tool holder lifetime.
- C-type wrench is attached for each ASC milling chuck.
- Max speed: 30,000 r.p.m G2.5
- ASC 刀具系列用於高轉速、高精密切削加工，切削效果佳
- 在沒有搭配筒夾的情況下使用，ASC 刀具系列為刀尖給油設計
- 特殊防塵設計，提升刀桿壽命
- 每支 ASC 刀桿均附 1 支 C 型扳手
- 最高轉速可達 30,000 r.p.m G2.5

Model No.	Clamping Range	d	D	L	Collet Type	Weight (kg)
BT30 ASC16-080	3~16	16	46	80	SC16	1.10
ASC20-085	4~20	20	53	85	SC20	1.30
BT40 ASC16-080	3~16	16	46	80	SC16	1.60
-105	3~16	16	46	105	SC16	2.00
-135	3~16	16	46	135	SC16	2.40
ASC20-080	4~20	20	53	80	SC20	1.80
-105	4~20	20	53	105	SC20	2.30
-135	4~20	20	53	135	SC20	2.90
BT50 ASC16-090	3~16	16	46	90	SC16	4.40
-110	3~16	16	46	110	SC16	4.70
-135	3~16	16	46	135	SC16	4.90
-150	3~16	16	46	150	SC16	5.00
ASC20-090	4~20	20	53	90	SC20	4.50
-110	4~20	20	53	110	SC20	5.00
-135	4~20	20	53	135	SC20	5.60
-150	4~20	20	53	150	SC20	6.00

Unit: mm



P6- Wrench

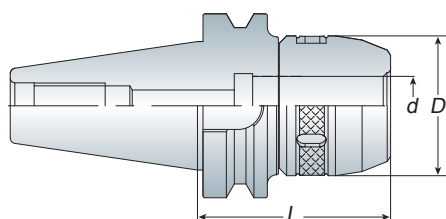
P6- SC Collet

Milling Chuck

強力銑刀夾頭刀桿

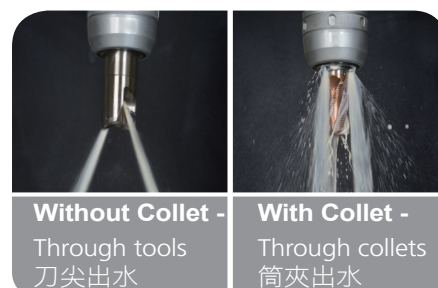
ASC

BT / NT
series



Model No.	Clamping Range	d	D	L	Collet Type	Weight (kg)
BT30 ASC25-085	6~25	25	58	85	SC25	1.30
BT40 ASC25-090	6~25	25	58	90	SC25	1.90
-130	6~25	25	58	130	SC25	2.70
ASC32-095	6~32	32	68	95	SC32	2.20
-105	6~32	32	68	105	SC32	2.80
-130	6~32	32	68	130	SC32	3.30
BT50 ASC25-100	6~25	25	58	100	SC25	4.60
-150	6~25	25	58	150	SC25	5.50
ASC32-105	6~32	32	76	105	SC32	5.20
-150	6~32	32	76	150	SC32	6.40
-200	6~32	32	76	200	SC32	8.50
-250	6~32	32	76	250	SC32	9.70
ASC42-110	6~42	42	84	110	SC42	5.50
-160	6~42	42	84	160	SC42	7.60

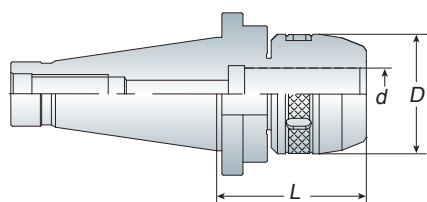
Unit: mm



Without Collet -
Through tools
刀尖出水

With Collet -
Through collets
筒夾出水

- C-type wrench is attached for each ASC milling chuck.
- 每支 ASC 刀桿均附 1 支 C 型扳手



Milling Chuck

強力銑刀夾頭刀桿

Model No.	Clamping Range	d	D	L	Collet Type	Draw Bolt	Weight (kg)
NT30 ASC20-085	4~20	20	53	85	SC20	1/2"- 12 M12x1.75P	1.60
ASC25-080	6~25	25	58	80	SC25		1.40
ASC32-090	6~32	32	68	90	SC32		1.80
NT40 ASC25-080	6~25	25	58	80	SC25	5/8"- 11 M16x2.0P	1.80
-130	6~25	25	58	130	SC25		2.60
ASC32-085	6~32	32	68	85	SC32		2.20
-130	6~32	32	68	130	SC32	1"- 8 M24x3.0P	3.00
NT50 ASC25-085	6~25	25	58	85	SC25		3.90
-150	6~25	25	58	150	SC25		5.30
ASC32-090	6~32	32	76	90	SC32		4.60
-150	6~32	32	76	150	SC32		5.60
ASC42-095	6~42	42	84	95	SC42		4.70
-150	6~42	42	84	150	SC42		6.80

Unit: mm



- When ordering, please specify the draw bolt with inch size or metric size.
- C-type wrench is attached for each ASC milling chuck.
- 請於訂購時，確認刀桿為英制或公制
- 每支 ASC 刀桿均附 1 支 C 型扳手



P6- Wrench

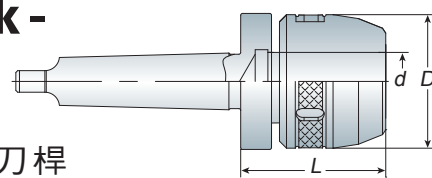
P6- SC Collet

BT / NT
series

ASC

Morse Taper Shank - Tang Type

莫氏錐度強力銑刀夾頭刀桿



- C-type wrench is attached for each ASC milling chuck.
- 每支 ASC 刀桿均附 1 支 C 型扳手

Model No.	Clamping Range	d	D	L	Collet Type	Weight (kg)
MTA3 ASC25-070	6~25	25	58	70	SC25	1.50
MTA4 ASC25-070	6~25	25	58	70	SC25	1.90
ASC32-080	6~32	32	76	80	SC32	2.20
MTA5 ASC25-075	6~25	25	58	75	SC25	2.60
ASC32-080	6~32	32	76	80	SC32	3.40
ASC42-090	6~42	42	84	90	SC42	4.70
MTA6 ASC25-075	6~25	25	58	75	SC25	5.30
ASC32-080	6~32	32	76	80	SC32	6.10
ASC42-090	6~42	42	84	90	SC42	6.50

Unit: mm



- C-type wrench is attached for each ASC milling chuck.
- 每支 ASC 刀桿均附 1 支 C 型扳手

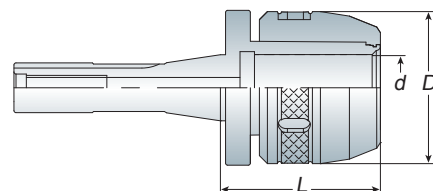


P6- Wrench

P6- SC Collet

R8 Taper Shank

R8 強力銑刀夾頭刀桿



Model No.	Clamping Range	d	D	L	Collet Type	Weight (kg)
R8 ASC25-070	6~25	25	58	70	SC25	1.40
ASC32-075	6~32	32	68	75	SC32	1.70

Unit: mm

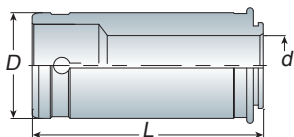
Straight Collet Set

直束筒夾組



Model No.	Specification	Weight (kg)
SC12-6PCS	3,4,5,6,8,10	0.40
SC16-6PCS	3,4,6,8,10,12	1.80
SC20-6PCS	6,8,10,12,14,16	2.10
SC25-6PCS	6,8,10,12,16,20	2.40
SC32-7PCS (Metric)	6,8,10,12,16,20,25	3.80
SC32-7PCS (Inch)	1/4,5/16,3/8,1/2,5/8,3/4,1	3.80
SC42-8PCS	6,8,10,12,16,20,25,32	6.10

Unit: mm



Straight Collet

直束筒夾

SC

BT / NT
series

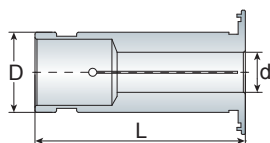
Model No.	D	d	L	Weight (kg)
SC12	12	3,4,5,6,7,8,9,10	40	0.02
SC16	16	3,4,5,6,7,8,9,10,11,12	42	0.06
SC20	20	4,6,8,10,12,14,16	52	0.10
SC25	25	6,8,10,12,14,16,18,20	63	0.16
SC32 - Metric	32	6,8,10,12,14,16,18,20,25	71	0.30
SC32 - Inch	32	1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1	71	0.30
SC42	42	6,8,10,12,14,16,18,20,25,32	71	0.60

Unit: mm



Straight Collet-Coolant Type

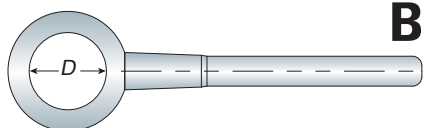
止水型直束筒夾



Model No.	D	d	L	Weight (kg)
SC12-CL	12	3,4,5,6,8	40	0.02
SC20-CL	20	4,6,8,10,12,14,16	52	0.10
SC32-CL	32	6,8,10,12,14,16,18,20,25	71	0.30

Unit: mm

SC-CL



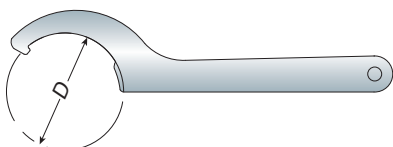
Bearing Wrench

軸承扳手

AMG / ASG / ASC

Model No.	D	Suit for	Weight (kg)
WASG12	35	ASG12	0.70
WAMG12 / WASG16	46	AMG12 / ASG16	0.70
WAMG16 / WASG20	54	AMG16 / ASG20 (ASK25)	0.90
WAMG20 / WASG25	58	AMG20 / ASG25	1.10
WAMG25	62	AMG25	1.10
WASG32	68	ASG32	1.20
WAMG32	70	AMG32	1.20

Unit: mm



C-type Wrench

C 型扳手

ASC

Model No.	D	Suit for	Weight (kg)
WASC16	46	ASC16	0.22
WASC20	53	ASC20	0.22
WASC25	55	ASC25 / OZ25	0.28
WASC32	68	BT30 / BT40 ASC32	0.35
WASC42	76	BT50 ASC32 / ASC42 / OZ32	0.40

Unit: mm

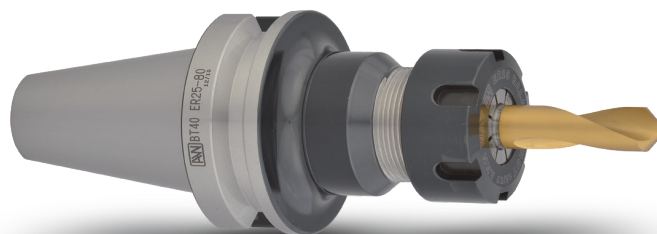
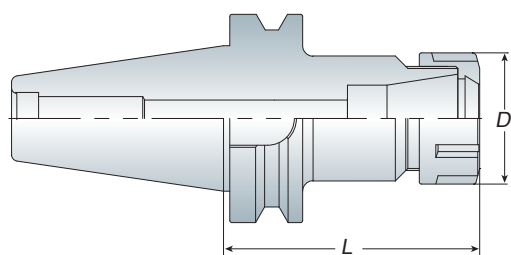


BT / NT
series

ER

Spring Collet Chuck

彈性筒夾本體



Features

- ER collet chuck with the flexibility that can clamp drill, reamers, end mills and taps.
- ER16 / ER20 / ER25 / ER32 / ER40 are also suitable for ER bearing nut and wrench.
- Wrench must be ordered separately.
- ER 筒夾具有彈性，適合夾持鑽頭、鉸刀、銑刀及絲攻刀具
- ER16 / ER20 / ER25 / ER32 / ER40 刀桿可另外選配鋼珠螺帽及扳手
- ER 扳手為另購品

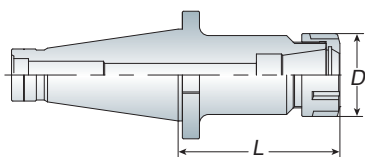


P14- ER Nut

P11- ER Collet

P14- Wrench

Model No.	Clamping Range	D	L	Collet Type	Wrench	Weight (kg)
BT30 ER08-060M	1~5	12	60	ER08	WM08	0.50
-100M	1~5	12	100	ER08	WM08	0.60
ER11-100M	1~7	16	100	ER11	WM11	0.60
ER16-100M	1~10	22	100	ER16	WM16	0.70
ER20-100M	1~13	28	100	ER20	WM20	0.80
BT40 ER11-070M	1~7	16	70	ER11	WM11	1.15
-100M	1~7	16	100	ER11	WM11	1.20
ER16-100M	1~10	22	100	ER16	WM16	1.25
ER20-100M	1~13	28	100	ER20	WM20	1.30
BT30 ER11-060	1~7	19	60	ER11	WER11	0.60
ER16-060	1~10	28	60	ER16	WER16	0.60
-070	1~10	28	70	ER16	WER16	0.70
ER20-060	1~13	34	60	ER20	WER20	0.60
ER25-060	2~16	42	60	ER25	WER25	0.70
ER32-060	2~20	50	60	ER32	WER32	0.75
-070	2~20	50	70	ER32	WER32	0.80
BT40 ER11-070	1~7	19	70	ER11	WER11	1.20
-100	1~7	19	100	ER11	WER11	1.25
ER16-070	1~10	28	70	ER16	WER16	1.20
-100/150	1~10	28	100/150	ER16	WER16	1.40/1.60
ER20-080	1~13	34	80	ER20	WER20	1.30
-100/150	1~13	34	100/150	ER20	WER20	1.50/1.80
ER25-080	2~16	42	80	ER25	WER25	1.50
-100/150	2~16	42	100/150	ER25	WER25	1.70/2.10
ER32-060	2~20	50	60	ER32	WER32	1.30
-070	2~20	50	70	ER32	WER32	1.40
-100/150	2~20	50	100/150	ER32	WER32	1.80/2.60
ER40-080	3~26	63	80	ER40	WER40	1.70
-100	3~26	63	100	ER40	WER40	2.20
BT50 ER16-100/150	1~10	28	100/150	ER16	WER16	4.10/4.30
-200/250/300	1~10	28	200/250/300	ER16	WER16	4.60/5.10/5.40
ER20-100/150	1~13	34	100/150	ER20	WER20	4.20/4.50
-200/250/300	1~13	34	200/250/300	ER20	WER20	4.90/5.50/5.90
ER25-100/150	2~16	42	100/150	ER25	WER25	4.20/4.80
-200/250/300	2~16	42	200/250/300	ER25	WER25	5.30/6.10/6.80
ER32-100/150	2~20	50	100/150	ER32	WER32	4.40/5.20
-200/250/300	2~20	50	200/250/300	ER32	WER32	5.90/6.60/7.50
ER40-080	3~26	63	80	ER40	WER40	4.30
-100/150	3~26	63	100/150	ER40	WER40	4.70/5.90
-200/250/300	3~26	63	200/250/300	ER40	WER40	7.10/8.20/9.30



Spring Collet Chuck

彈性筒夾本體

Model No.	D	L	Collet Type	Draw Bolt	Weight (kg)
NT30 ER16-076	28	76	ER16	1/2" - 12 M12x1.75P	0.70
ER32-055	50	55	ER32		0.80
ER40-085	63	85	ER40		1.40
NT40 ER16-076	28	76	ER16	5/8" - 11 M16x2.0P	1.20
-100	28	100	ER16		1.30
ER20-076	34	76	ER20		1.40
-100	34	100	ER20		1.40
ER32-050	50	50	ER32		1.10
ER40-055	63	55	ER40		1.40
NT50 ER16-100	28	100	ER16	1" - 8 M24x3.0P	3.30
-150	28	150	ER16		3.50
ER20-100	34	100	ER20		3.30
-150	34	150	ER20		3.70
ER32-058	50	58	ER32		3.20
ER40-058	63	58	ER40		3.20

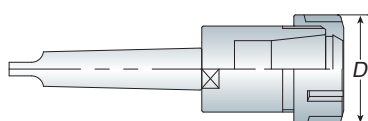
Unit: mm

ER

BT / NT
series



- When ordering, please specify the draw bolt for inch size or metric size.
- Wrench must be ordered separately
- 請於訂購時，確認刀桿為英制或公制
- ER 扳手為另購品



Morse Taper Shank - Tang Type

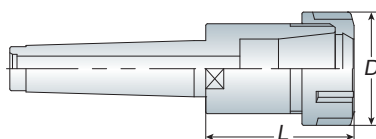
莫氏錐度彈性筒夾本體 - A 型

Model No.	D	Collet Type	Weight (kg)
MTA2 ER16	28	ER16	0.20
ER20	34	ER20	0.50
ER25	42	ER25	0.70
MTA3 ER16	28	ER16	0.40
ER32	50	ER32	0.80
ER40	63	ER40	1.30
MTA4 ER32	50	ER32	1.30
ER40	63	ER40	1.70
MTA5 ER40	63	ER40	2.90

Unit: mm



- Wrench must be ordered separately.
- ER 扳手為另購品



Morse Taper Shank - Draw Bolt Type

莫氏錐度彈性筒夾本體 - B 型

Model No.	D	L	Collet Type	Draw Bolt	Weight (kg)
MTB2 ER16-040	28	40	ER16	3/8" - 16 M10x1.5P	0.25
ER20-045	34	45	ER20		0.30
ER25-047	42	47	ER25		0.40
MTB3 ER16-040	28	40	ER16	1/2" - 12 M12x1.75P	0.60
ER32-070	50	70	ER32		0.80
ER40-080	63	80	ER40		1.30
MTB4 ER32-060	50	60	ER32	5/8" - 11 M16x2.0P	1.40
ER40-082	63	82	ER40		1.60
MTB5 ER40-082	63	82	ER40	1" - 8 / M24x3.0P	2.40

Unit: mm



- Wrench must be ordered separately.
- ER 扳手為另購品



P14- ER Nut

P11- ER Collet

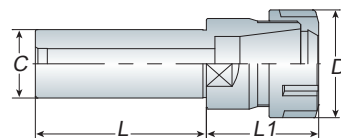
P14- Wrench

BT / NT
series

ER

Straight Shank Collet Chuck

直柄彈性筒夾本體

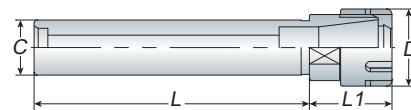


Model No.	C	D	L	L1	Collet Type	Weight (kg)
C20 ER16-050	20	28	50	30	ER16	0.20
-100/150	20	28	100/150	30		0.35/0.45
ER20-050	20	34	50	36	ER20	0.25
-100/150	20	34	100/150	36		0.40/0.50
ER25-050	20	42	50	46	ER25	0.40
-100/150	20	42	100/150	46		0.50/0.70
C25 ER16-100/150	25	28	100/150	30	ER16	0.40/0.70
ER20-100/150	25	34	100/150	36	ER20	0.50/0.75
ER25-100/150	25	42	100/150	46	ER25	0.55/0.80
ER32-080	25	50	80	54	ER32	0.80
ER40-100	25	63	100	55	ER40	1.10
C32 ER25-060	32	42	60	46	ER25	0.70
ER32-100/150	32	50	100/150	54	ER32	1.10/1.40
ER40-100	32	63	100	55	ER40	1.30
C40 ER32-100	40	50	100	54	ER32	1.30
ER40-100	40	63	100	55	ER40	1.60

Unit: mm

Straight Shank Collet Chuck - M Type

直柄彈性筒夾本體 -M 型

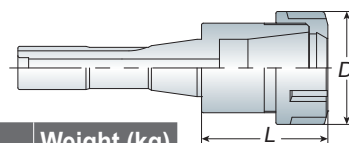


Model No.	C	D	L	L1	Collet Type	Weight (kg)
C16 ER11-050M	16	16	50	12	ER11	0.10
-100M	16	16	100	12		0.20
ER16-050M	16	22	50	18	ER16	0.15
-100M/150M	16	22	100/150	18		0.20/0.30
C20 ER16-050M	20	22	50	18	ER16	0.20
-100M/150M	20	22	100/150	18		0.30/0.40
ER20-050M	20	28	50	19	ER20	0.20
-100M/150M	20	28	100/150	19		0.35/0.50
C25 ER20-050M	25	28	50	19	ER20	0.30
-100M/150M	25	28	100/150	19		0.50/0.60

Unit: mm

R8 Taper Shank

R8 彈性筒夾本體

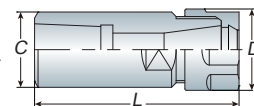


Model No.	D	L	Collet Type	G	Weight (kg)
R8 ER16	28	35	ER16	7/16"x20 UNF	0.60
ER25	42	43	ER25		0.70
ER32	50	60	ER32		0.90
ER40	63	68	ER40		1.40

Unit: mm

Jacobs Female Taper Shank

內孔鑽頭彈性筒夾本體



Model No.	JT No.	C	D	L	Weight (kg)
JT2 ER16-070	JT2	25	28	70	0.20
JT6 ER16-070	JT6	25	28	70	0.20
ER20-070	JT6	34	34	70	0.30

Unit: mm



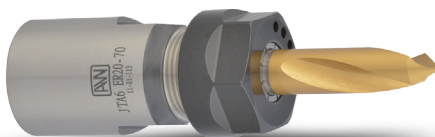
- Wrench must be ordered separately.
- ER 扳手為另購品



- Wrench must be ordered separately.
- ER 扳手為另購品



- Wrench must be ordered separately.
- ER 扳手為另購品



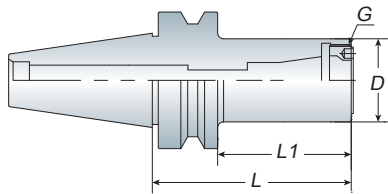
- Wrench must be ordered separately.
- ER 扳手為另購品



P14- ER Nut

P11- ER Collet

P14- Wrench



High Speed Collet Chuck

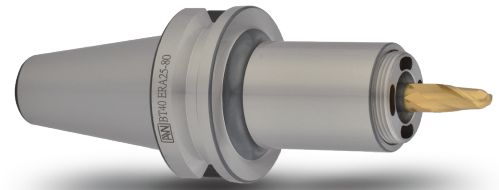
高速彈性筒夾本體

ERA

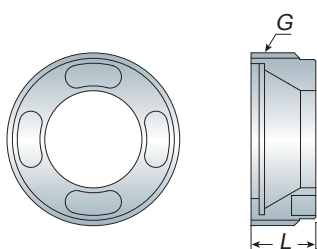
BT / NT
series

Model No.	D	L1	L	G	Weight (kg)
BT30 ERA11-055	22	35	55	M18x1.0P	0.55
ERA16-065	28	45	65	M24x1.0P	0.65
ERA20-065	32	45	65	M28x1.5P	0.70
ERA25-060	38	40	60	M32x1.5P	0.70
BT40 ERA11-070	22	45	70	M18x1.0P	1.20
-100	22	75	100	M18x1.0P	1.20
ERA16-070	28	45	70	M24x1.0P	1.30
-100	28	75	100	M24x1.0P	1.30
ERA20-080	32	55	80	M28x1.5P	1.40
-100	32	75	100	M28x1.5P	1.50
ERA25-080	38	55	80	M32x1.5P	1.40
-100	38	75	100	M32x1.5P	1.50
ERA32-080	46	55	80	M40x1.5P	1.50
-100	46	75	100	M40x1.5P	1.80
BT50 ERA11-080	22	45	80	M18x1.0P	3.90
-110	22	75	110	M18x1.0P	4.00
ERA16-080	28	45	80	M24x1.0P	4.00
-110	28	75	110	M24x1.0P	4.10
ERA20-090	32	55	90	M28x1.5P	4.10
-110	32	75	110	M28x1.5P	4.20
ERA25-090	38	55	90	M32x1.5P	4.10
-110	38	75	110	M32x1.5P	4.30
ERA32-090	46	55	90	M40x1.5P	4.20
-110	46	75	110	M40x1.5P	4.50

Unit: mm



- The clamping nuts for ERA are special designed to be fitted internally into the holder. The special design could provide better cutting conditions and reducing cutting vibrations.
- Wrench must be ordered separately
- Max speed: 30,000 r.p.m G2.5
- 特殊內藏式螺帽設計：可降低及減少切削時所產生的阻力與振動，並提升加工品質及穩定性
- ERA 扳手為另購品
- 最高轉速可達 30,000 r.p.m G2.5



Nut & Wrench

螺帽與扳手

Model No.	L	G	Collet Type	Weight (kg)
ERA11-NUT	6	M18x1.0P	ER11	0.01
ERA16-NUT	8	M24x1.0P	ER16	0.02
ERA20-NUT	11	M28x1.5P	ER20	0.02
ERA25-NUT	12.5	M32x1.5P	ER25	0.03
ERA32-NUT	14	M40x1.5P	ER32	0.06

Unit: mm

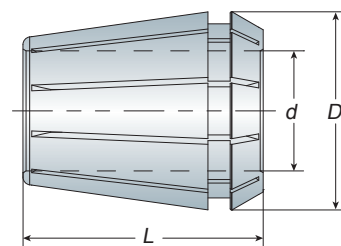
Model No.	Weight (kg)
WERA11	0.03
WERA16	0.07
WERA20	0.07
WERA25	0.13
WERA32	0.17

ERA





- Collet must be assembled into the clamping nut before inserting into the chuck



Metric Size

Model No.	D	L	d	Weight (kg)
ER08	8.5	13.5	1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5	0.01
ER11	11.5	18	1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7	0.01
ER16	17	27	1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10	0.03
ER20	21	31	1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10, 10.5, 11, 11.5, 12, 12.5, 13	0.04
ER25	26	35	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	0.07
ER32	33	40	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	0.15
ER40	41	46	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26	0.27
ER50	52	60	12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34	0.45

Unit: mm

Inch Size

Model No.	D	L	d	Weight (kg)
ER11	11.5	18	1/8, 5/32, 3/16, 7/32, 1/4	0.01
ER16	17	27	1/8, 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8	0.03
ER20	21	31	1/8, 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 13/32, 7/16, 1/2	0.04
ER25	26	35	1/8, 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 15/32, 1/2, 9/16, 19/32, 5/8	0.07
ER32	33	40	1/8, 5/32, 3/16, 7/32, 1/4, 5/16, 11/32, 3/8, 7/16, 15/32, 1/2, 17/32, 9/16, 5/8, 21/32, 11/16, 3/4, 25/32	0.15
ER40	41	46	1/8, 5/32, 3/16, 1/4, 9/32, 5/16, 3/8, 7/16, 15/32, 1/2, 9/16, 5/8, 19/32, 11/16, 23/32, 3/4, 25/32, 13/16, 27/32, 7/8, 15/16, 31/32, 1	0.27

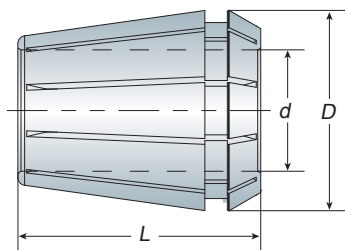
Unit: mm

ER08		ER11		ER16		ER20		ER25		ER32		ER40		ER50	
No.	Range	No.	Range	No.	Range	No.	Range	No.	Range	No.	Range	No.	Range	No.	Range
ER08-01	1.0~0.5	ER11-01	1.0~0.5	ER16-01	1.0~0.5	ER20-01	1.0~0.5	ER25-02	2.0~1.0	ER32-02	2.0~1.0	ER40-03	3.0~2.0	ER50-12	12~10
ER08-1.5	1.5~1.0	ER11-1.5	1.5~1.0	ER16-1.5	1.5~1.0	ER20-1.5	1.5~1.0	ER25-03	3.0~2.0	ER32-03	3.0~2.0	ER40-04	4.0~3.0	ER50-14	14~12
ER08-02	2.0~1.5	ER11-02	2.0~1.5	ER16-02	2.0~1.0	ER20-02	2.0~1.0	ER25-04	4.0~3.0	ER32-04	4.0~3.0	ER40-05	5.0~4.0	ER50-16	16~14
ER08-2.5	2.5~2.0	ER11-2.5	2.5~2.0	ER16-2.5	2.5~2.0	ER20-2.5	2.5~2.0	ER25-05	5.0~4.0	ER32-05	5.0~4.0	ER40-06	6.0~5.0	ER50-18	18~16
ER08-03	3.0~2.5	ER11-03	3.0~2.5	ER16-03	3.0~2.0	ER20-03	3.0~2.0	ER25-06	6.0~5.0	ER32-06	6.0~5.0	ER40-07	7.0~6.0	ER50-20	20~18
ER08-3.5	3.5~3.0	ER11-3.5	3.5~3.0	ER16-3.5	3.5~3.0	ER20-3.5	3.5~3.0	ER25-07	7.0~6.0	ER32-07	7.0~6.0	ER40-08	8.0~7.0	ER50-22	22~20
ER08-04	4.0~3.5	ER11-04	4.0~3.5	ER16-04	4.0~3.0	ER20-04	4.0~3.0	ER25-08	8.0~7.0	ER32-08	8.0~7.0	ER40-09	9.0~8.0	ER50-24	24~22
ER08-4.5	4.5~4.0	ER11-4.5	4.5~4.0	ER16-4.5	4.5~4.0	ER20-4.5	4.5~4.0	ER25-09	9.0~8.0	ER32-09	9.0~8.0	ER40-10	10~9.0	ER50-26	26~24
ER08-05	5.0~4.5	ER11-05	5.0~4.5	ER16-05	5.0~4.0	ER20-05	5.0~4.0	ER25-10	10~9.0	ER32-10	10~9.0	ER40-11	11~10	ER50-28	28~26
		ER11-5.5	5.5~5.0	ER16-5.5	5.5~5.0	ER20-5.5	5.5~5.0	ER25-11	11~10	ER32-11	11~10	ER40-12	12~11	ER50-30	30~28
		ER11-06	6.0~5.5	ER16-06	6.0~5.0	ER20-06	6.0~5.0	ER25-12	12~11	ER32-12	12~11	ER40-13	13~12	ER50-32	32~30
		ER11-6.5	6.5~6.0	ER16-6.5	6.5~6.0	ER20-6.5	6.5~6.0	ER25-13	13~12	ER32-13	13~12	ER40-14	14~13	ER50-34	34~32
		ER11-07	7.0~6.5	ER16-07	7.0~6.0	ER20-07	7.0~6.0	ER25-14	14~13	ER32-14	14~13	ER40-15	15~14		
				ER16-7.5	7.5~7.0	ER20-7.5	7.5~7.0	ER25-15	15~14	ER32-15	15~14	ER40-16	16~15		
				ER16-08	8.0~7.0	ER20-08	8.0~7.0	ER25-16	16~15	ER32-16	16~15	ER40-17	17~16		
				ER16-8.5	8.5~8.0	ER20-8.5	8.5~8.0			ER32-17	17~16	ER40-18	18~17		
				ER16-09	9.0~8.0	ER20-09	9.0~8.0			ER32-18	18~17	ER40-19	19~18		
				ER16-9.5	9.5~9.0	ER20-9.5	9.5~9.0			ER32-19	19~18	ER40-20	20~19		
				ER16-10	10~9.0	ER20-10	10~9.0			ER32-20	20~19	ER40-21	21~20		
						ER20-10.5	10.5~10					ER40-22	22~21		
						ER20-11	11~10					ER40-23	23~22		
						ER20-11.5	11.5~11					ER40-24	24~23		
						ER20-12	12~11					ER40-25	25~24		
						ER20-12.5	12.5~12					ER40-26	26~25		
						ER20-13	13~12								

- ER08 ~ ER20 建議夾持範圍皆為 0.5mm (Suggested clamping range should be 0.5mm)

Spring Collet - Coolant Type

止水型筒夾



ER-CL

BT / NT
series

Model No.	D	L	d	Weight (kg)
ER16-CL	17	27	4,5,6,7,8,9,10	0.03
ER20-CL	21	31	4,5,6,7,8,9,10,11,12,13	0.04
ER25-CL	26	35	4,5,6,7,8,9,10,11,12,13,14,15,16	0.07
ER32-CL	33	40	4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	0.15
ER40-CL	41	46	4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26	0.27

Unit: mm



Tap Collet

攻牙筒夾

ER-GB

Ød (mm)	□ (mm)	ER16GB (approx. 0.03kgs/pc)				ER20GB (approx. 0.04kgs/pc)				ER25GB (approx. 0.07kgs/pc)			
		JIS	ISO	DIN371	DIN376	JIS	ISO	DIN371	DIN376	JIS	ISO	DIN371	DIN376
4	3			M3.5				M3.5					
4	3.2	M3				M3							
4.5	3.4			M4	M6			M4	M6			M4	M6
5	4	M4	M5			M4	M5			M4	M5		
5.5	4.5	M5				M5				M5			
6	4.5	M6, W1/4				M6, W1/4				M6, W1/4			
6	4.9			M5, M6	M8			M5, M6	M8			M5, M6	M8
6.1	5	W5/16				W5/16				W5/16			
6.2	5	M8				M8				M8			
7	5.5	M10, W3/8		M7	M10	M10, W3/8		M7	M10	M10, W3/8		M7	M10
8	6.2			M8	M11			M8	M11			M8	M11
8.5	6.5					M12				M12			
9	7.1						M12				M12		
10	8						M10	M10			M10	M10	
10.5	8	M14								M14			
11	9												M14
12	9									W5/8			M16
12.5	10										M16		

Ød (mm)	□ (mm)	ER32GB (approx. 0.15kgs/pc)				ER40GB (approx. 0.27kgs/pc)			
		JIS	ISO	DIN371	DIN376	JIS	ISO	DIN371	DIN376
4.5	3.4			M4	M6				
5	4	M4	M5						
5.5	4.5	M5							
6	4.5	M6, W1/4				M6, W1/4			
6	4.9			M5, M6				M5, M6	
6.1	5	W5/16				W5/16			
6.2	5	M8				M8			
7	5.5	M10, W3/8		M7	M10	M10, W3/8		M7	M10
8	6.2			M8	M11			M8	M11
8.5	6.5	M12				M12			
9	7.1		M12				M12		
10	8		M10	M10			M10	M10	
10.5	8	M14				M14			
11	9				M14				M14
12	9	W5/8			M16	W5/8			M16
12.5	10		M16				M16		
14	11	M18, W3/4, PT3/8			M18	M18, W3/4, PT3/8			M18
15	12	M20				M20			
16	12				M20				M20
17	13	M22, W7/8				M22, W7/8			
18	14.5								M22, M24
19	15					M24			
20	15					M27, W1, PT5/8			
20	16						M27, M30		M27
22	18								M30



- Please check shank diameter (Ød) and square size (SQ/ □) when ordering.
- 請於訂購時確認攻牙筒夾的柄徑 (Ød) 和四角孔 (SQ/ □)



Spring Collet Set

彈性筒夾組

ER11

Model No.	Specification	PCS/SET	Weight (kg)
ER11-07PCS	1,2,3,4,5,6,7	7PCS/SET	0.30
ER11-13PCS	1,1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7	13PCS/SET	0.40

Unit: mm

ER16

Model No.	Specification	PCS/SET	Weight (kg)
ER16-08PCS	3,4,5,6,7,8,9,10	8PCS/SET	0.50
ER16-10PCS	1,2,3,4,5,6,7,8,9,10	10PCS/SET	0.70
ER16-CL-07PCS	4,5,6,7,8,9,10	7PCS/SET	0.50

Unit: mm

ER20

Model No.	Specification	PCS/SET	Weight (kg)
ER20-10PCS	4,5,6,7,8,9,10,11,12,13	10PCS/SET	0.70
ER20-12PCS	2,3,4,5,6,7,8,9,10,11,12,13	12PCS/SET	0.80
ER20-CL-10PCS	4,5,6,7,8,9,10,11,12,13	10PCS/SET	0.70

Unit: mm

ER25

Model No.	Specification	PCS/SET	Weight (kg)
ER25-07PCS	4,6,8,10,12,14,16	7PCS/SET	1.20
ER25-15PCS	2,3,4,5,6,7,8,9,10,11,12,13,14,15,16	15PCS/SET	1.70
ER25-CL-13PCS	4,5,6,7,8,9,10,11,12,13,14,15,16	13PCS/SET	1.50

Unit: mm

ER32

Model No.	Specification	PCS/SET	Weight (kg)
ER32-06PCS	6,8,10,12,16,20	6PCS/SET	1.60
ER32-11PCS	4,5,6,8,10,12,13,15,16,18,20	11PCS/SET	2.20
ER32-18PCS	3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	18PCS/SET	3.10
ER32-CL-17PCS	4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	17PCS/SET	3.00

Unit: mm

ER40

Model No.	Specification	PCS/SET	Weight (kg)
ER40-07PCS	6,8,10,12,16,20,25	7PCS/SET	2.50
ER40-15PCS	4,5,6,8,10,12,13,15,16,18,20,21,22,25,26	15PCS/SET	4.30
ER40-23PCS	4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26	23PCS/SET	6.20
ER40-CL-23PCS	4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26	23PCS/SET	6.20

Unit: mm



Clamping Nut

螺帽

ER

BT / NT
series

Standard Nut 普通螺帽	Model No.	FIG.	D	L	G	Collet Type	Weight (kg)
	CN11	1	19	13	M14x0.75P	ER11	0.01
	CN16	1	28	17.5	M22x1.5P	ER16	0.04
	CN20	1	34	19	M25x1.5P	ER20	0.07
	CN25	2	42	20	M32x1.5P	ER25	0.11
	CN32	2	50	22.5	M40x1.5P	ER32	0.15
	CN40	2	63	29	M50x1.5P	ER40	0.30
	CN50	2	78	35	M64x2.0P	ER50	0.50
M Type Nut M 型螺帽	Model No.	FIG.	D	L	G	Collet Type	Weight (kg)
	CNM08	3	12	10.8	M10x0.75P	ER08	0.01
	CNM11	3	16	12	M13x0.75P	ER11	0.01
	CNM16	3	22	18	M19x1.0P	ER16	0.02
	CNM20	3	28	19	M24x1.0P	ER20	0.03
Bearing Nut 鋼珠螺帽	Model No.	FIG.	D	L	G	Collet Type	Weight (kg)
	CN16-B	4	32	19	M22x1.5P	ER16	0.07
	CN20-B	4	36	21	M25x1.5P	ER20	0.09
	CN25-B	4	43	22	M32x1.5P	ER25	0.13
	CN32-B	4	51	24	M40x1.5P	ER32	0.16
	CN40-B	4	63	29	M50x1.5P	ER40	0.31

Unit: mm

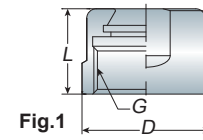


Fig.1

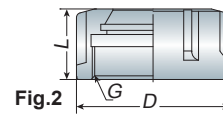


Fig.2

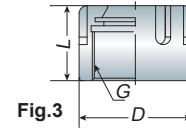


Fig.3

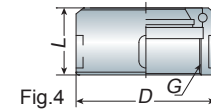
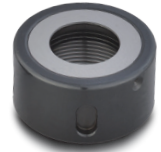
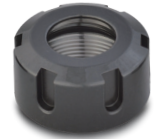
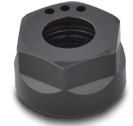


Fig.4



Wrench

扳手

ER

Standard Wrench 普通扳手	Model No.	FIG.	A	C	L	Suit For	Weight (kg)
	WER11	1	29	17	140	CN11	0.08
	WER16	1	45	25	142	CN16	0.12
	WER20	1	54	30	162	CN20	0.17
	WER25	2	65	37	206	CN25	0.22
	WER32	2	75	46.5	253	CN32	0.30
	WER40	2	90	58	289	CN40	0.36
WER50	2	110	-	350	CN50	0.70	
M Type Wrench M 型扳手	Model No.	FIG.	A	C	L	Suit For	Weight (kg)
	WM08	3	13	-	75	CNM08	0.02
	WM11	3	17	8.5	95	CNM11	0.03
	WM16	3	22.5	12.5	117	CNM16	0.05
	WM20	3	28.5	15.5	127	CNM20	0.07
C Type Wrench (for bearing nut) C 型扳手 (鋼珠螺帽用)	Model No.	FIG.	C	L	Suit For	Weight (kg)	
	WER16B	4	32	205	CN16-B	0.16	
	WER20B	4	36	220	CN20-B	0.18	
	WER25B	4	43	235	CN25-B	0.21	
	WER32B	4	51	255	CN32-B	0.22	
	WER40B	4	63	260	CN40-B	0.25	

Unit: mm

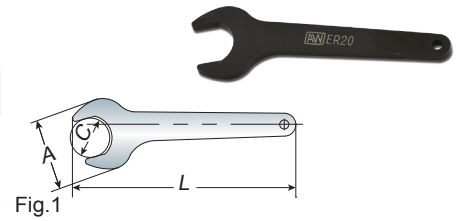


Fig.1

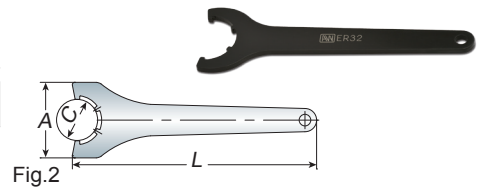


Fig.2

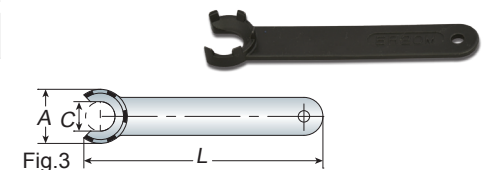


Fig.3

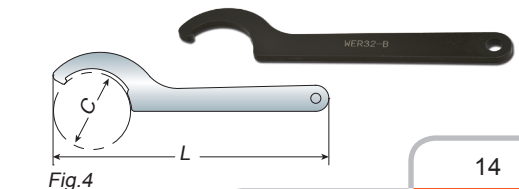


Fig.4



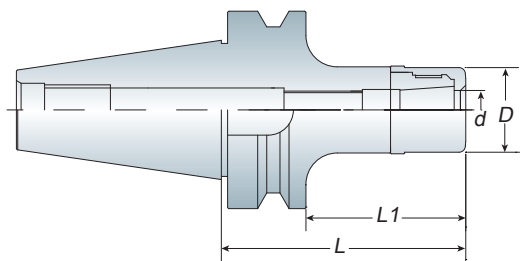
Ann Way

BT / NT
series

ASK

High Speed Collet Chuck

高轉速精密筒夾本體



Through tools must use integer collet and coolant nut together. (refer to P.16)

需搭配使用整數筒夾及止水螺帽才有刀尖出水效果 (請參考 P.16)

Features

- ASK tooling systems are suitable for high speed and high precision cutting.
- Special nut design provides better cutting condition and reducing cutting vibration.
- ASK collet can be achieve the best cutting condition when using AA grade.
- Wrench must be ordered separately.
- Max speed: 30,000 r.p.m G2.5
- ASK 系列適用於高轉速、高精密切削加工，切削效果佳
- 螺帽獨特設計可降低高轉速切削時的風阻及噪音並提升工作效能
- 欲達到切削效果佳，可搭配使用 AA 級筒夾
- ASK 扳手為另購品
- 最高轉速可達 30,000 r.p.m G2.5

Model No.	Clamping Range (d)	D	L1	L	Weight (kg)
BT30 ASK06-060	2~6	19.05	40	60	0.60
-090	2~6	19.05	70	90	0.60
ASK10-070	2~10	27	50	70	0.70
-090	2~10	27	70	90	0.80
ASK13-060	3~13	33	40	60	1.00
-075	3~13	33	55	75	1.10
-090	3~13	33	70	90	1.10
ASK16-060	3~16	40	40	60	0.70
-090	3~16	40	70	90	0.90
-120	3~16	40	100	120	1.10
ASK20-060	4~20	48	40	60	0.80
ASK25-085	6~25.4	54	65	85	1.20
BT40 ASK06-060	2~6	19.05	35	60	1.10
-090	2~6	19.05	65	90	1.30
-120	2~6	19.05	95	120	1.50
ASK10-060	2~10	27	35	60	1.20
-080	2~10	27	55	80	1.30
-100	2~10	27	75	100	1.40
-120	2~10	27	95	120	1.50
-150	2~10	27	125	150	1.60
ASK13-060	3~13	33	35	60	1.20
-080	3~13	33	55	80	1.30
-100	3~13	33	75	100	1.50
-120	3~13	33	95	120	1.60
-150	3~13	33	125	150	1.80
ASK16-060	3~16	40	55	60	1.30
-080	3~16	40	55	80	1.50
-100	3~16	40	75	100	1.60
-120	3~16	40	95	120	1.90
-150	3~16	40	125	150	2.10
ASK20-060	4~20	48	35	60	1.30
-090	4~20	48	65	90	1.80
-120	4~20	48	95	120	2.40
ASK25-070	6~25.4	54	45	70	1.50
-090	6~25.4	54	65	90	1.90
-120	6~25.4	54	95	120	2.20

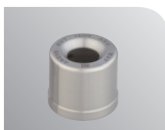
Unit: mm



P17- SK Collet



P18- Wrench



P19- ASK Nut

High Speed Collet Chuck

高轉速精密筒夾本體

ASK

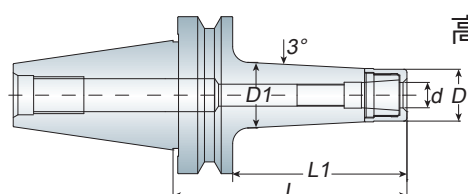
BT / NT
series

Model No.	Clamping Range (d)	D	L1	L	Weight (kg)
BT50 ASK06-100	2~6	19.05	65	100	3.90
ASK10-100	2~10	27	65	100	4.00
-130	2~10	27	95	130	4.10
-150	2~10	27	115	150	4.20
ASK13-100	3~13	33	65	100	4.50
-130	3~13	33	95	130	4.70
-150	3~13	33	115	150	4.90
ASK16-100	3~16	40	65	100	4.20
-130	3~16	40	95	130	4.50
-150	3~16	40	115	150	5.00
ASK20-105	4~20	48	70	105	4.60
-135	4~20	48	100	135	5.00
-165	4~20	48	130	165	5.60
ASK25-100	6~25.4	54	65	100	4.50
-130	6~25.4	54	95	130	5.00
-150	6~25.4	54	115	150	5.30

Unit: mm



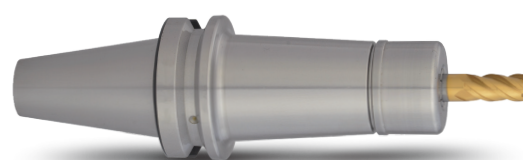
High Speed Collet Chuck - Rigidity Type



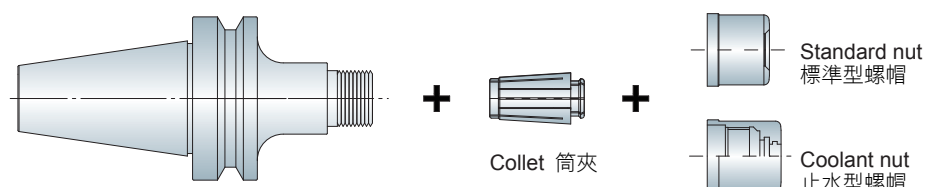
高轉速精密筒夾本體 -
高剛性型

Model No.	Clamping Range (d)	D	D1	L1	L	Weight (kg)
BT40 ASK06-150T	2~6	19.05	29	125	150	1.50
ASK10-150T	2~10	27	36	125	150	1.60
ASK13-150T	3~13	33	43	125	150	1.80
ASK16-150T	3~16	40	49	125	150	1.90
BT50 ASK06-150T	2~6	19.05	28	115	150	4.00
ASK10-150T	2~10	27	35	115	150	4.60
-200T	2~10	27	40	165	150	4.80
ASK13-150T	3~13	33	42	115	150	4.90
-200T	3~13	33	47	165	200	5.20
ASK16-150T	3~16	40	47	115	150	5.10
-200T	3~16	40	53	165	200	5.50

Unit: mm



- ASK-T tooling system is designed by taper type and suitable for high speed, high precision and reducing cutting vibration.
- Wrench must be ordered separately.
- Max speed: 30,000 r.p.m G2.5
- ASK-T 系列為錐度柄之設計，適用於高轉速、高精密切削加工，切削剛性效果佳
- ASK 扳手為另購品
- 最高轉速可達 30,000 r.p.m G2.5



Tool Holder 刀桿

Collet 筒夾

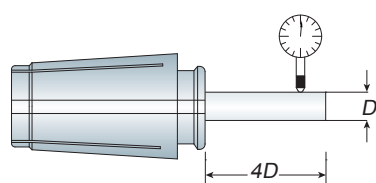
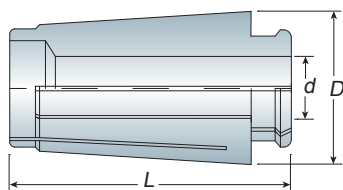
Standard nut
標準型螺帽

Coolant nut
止水型螺帽

- Coolant Nut: refer to P.19
- 出水螺帽請參考 P.19

BT / NT
series

SK



筒夾等級 Collet Grade	跳動精度 / Runout - Max μ 4 倍直徑前 - 4xD
A 級	$\leq 10\mu$
AA 級	$\leq 5\mu$

High Speed Collet

精密筒夾



SK10 (approx. 0.02kgs/pc)

Model No.	d	Range	D	L
SK10-02	2	2~1.75	15.6	31
SK10-2.5	2.5	2.5~2.25		
SK10-03	3	3~2.75		
SK10-3.175	3.175	3.175~2.7		
SK10-3.5	3.5	3.5~3		
SK10-04	4	4~3.5		
SK10-4.5	4.5	4.5~4		
SK10-05	5	5~4.5		
SK10-5.5	5.5	5.5~5		
SK10-06	6	6~5.5		
SK10-6.5	6.5	6.5~6		
SK10-07	7	7~6.5	10.4	25
SK10-7.5	7.5	7.5~7		
SK10-08	8	8~7.5		
SK10-8.5	8.5	8.5~8		
SK10-09	9	9~8.5	9.5	9.5~9
SK10-9.5	9.5	9.5~9		
SK10-10	10	10~9.5	10.4	25

Unit: mm

Unit: mm

SK06 (approx. 0.005kgs/pc)

Model No.	d	Range	D	L
SK06-02	2	2~1.75	10.4	25
SK06-2.5	2.5	2.5~2.25		
SK06-03	3	3~2.75		
SK06-3.5	3.5	3.5~3		
SK06-04	4	4~3.5		
SK06-4.5	4.5	4.5~4		
SK06-05	5	5~4.5		
SK06-5.5	5.5	5.5~5		
SK06-06	6	6~5.5		

SK13 (approx. 0.04kgs/pc)

Model No.	d	Range	D	L
SK13-03	3	3~2.75	20	39
SK13-3.5	3.5	3.5~3		
SK13-04	4	4~3.5		
SK13-4.5	4.5	4.5~4		
SK13-05	5	5~4.5		
SK13-5.5	5.5	5.5~5		
SK13-06	6	6~5.5		
SK13-6.5	6.5	6.5~6		
SK13-07	7	7~6.5		
SK13-7.5	7.5	7.5~7		
SK13-08	8	8~7.5	24.6	45
SK13-8.5	8.5	8.5~8		
SK13-09	9	9~8.5		
SK13-9.5	9.5	9.5~9		
SK13-10	10	10~9.5	24.6	45
SK13-10.5	10.5	10.5~10		
SK13-11	11	11~10.5		
SK13-11.5	11.5	11.5~11		
SK13-12	12	12~11.5	24.6	45
SK13-12.5	12.5	12.5~12		
SK13-13	13	13~12.5		

Unit: mm

SK16 (approx. 0.08kgs/pc)

Model No.	d	Range	D	L
SK16-03	3	3~2.75	24.6	45
SK16-3.175	3.175	3.175~2.7		
SK16-3.5	3.5	3.5~3		
SK16-04	4	4~3.5		
SK16-4.5	4.5	4.5~4		
SK16-05	5	5~4.5		
SK16-5.5	5.5	5.5~5		
SK16-06	6	6~5.5		
SK16-6.5	6.5	6.5~6		
SK16-07	7	7~6.5		
SK16-7.5	7.5	7.5~7	29.1	54.2
SK16-08	8	8~7.5		
SK16-8.5	8.5	8.5~8		
SK16-09	9	9~8.5		
SK16-9.5	9.5	9.5~9	29.1	54.2
SK16-10	10	10~9.5		
SK16-10.5	10.5	10.5~10		
SK16-11	11	11~10.5		
SK16-11.5	11.5	11.5~11	35.7	57
SK16-12	12	12~11.5		
SK16-12.5	12.5	12.5~12		
SK16-13	13	13~12.5		
SK16-13.5	13.5	13.5~13	35.7	57
SK16-14	14	14~13.5		
SK16-14.5	14.5	14.5~14		
SK16-15	15	15~14.5		
SK16-15.5	15.5	15.5~15	35.7	57
SK16-16	16	16~15.5		

Unit: mm

SK20 (approx. 0.14kgs/pc)

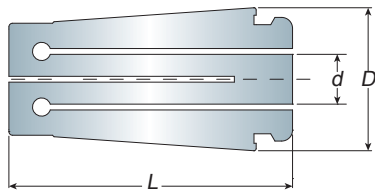
Model No.	d	Range	D	L
SK20-04	4	4~3.5	29.1	54.2
SK20-06	6	6~5.5		
SK20-08	8	8~7.5		
SK20-10	10	10~9.5		
SK20-12	12	12~11.5		
SK20-16	16	16~15.5		
SK20-20	20	20~19.5		

Unit: mm

SK25 (approx. 0.24kgs/pc)

Model No.	d	Range	D	L
SK25-06	6	6~5.5	35.7	57
SK25-08	8	8~7.5		
SK25-10	10	10~9.5		
SK25-12	12	12~11.5		
SK25-14	14	14~13.5		
SK25-16	16	16~15.5		
SK25-18	18	18~17.5		
SK25-20	20	20~19.5		
SK25-22	22	22~21.5		
SK25-24	24	24~23.5		
SK25-25	25	25~24.5	35.7	57
SK25-25.4	25.4	25.4~25		

Unit: mm



Collet for End Mill

立銑專用筒夾

SK

BT / NT
series

SK10E (approx. 0.02kgs/pc)

Model No.	d	D	L
SK10E-03	3	15.6	31
SK10E-04	4		
SK10E-05	5		
SK10E-06	6		
SK10E-08	8	20	39
SK10E-10	10		

Unit: mm

SK13E (approx. 0.04kgs/pc)

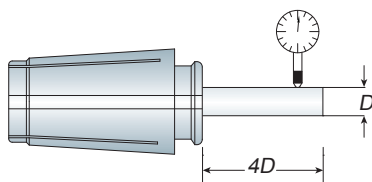
Model No.	d	D	L
SK13E-03	3	20	39
SK13E-04	4		
SK13E-05	5		
SK13E-06	6		
SK13E-08	8	24.6	45
SK13E-10	10		
SK13E-12	12	16	

Unit: mm

SK16E (approx. 0.08kgs/pc)

Model No.	d	D	L
SK16E-03	3	24.6	45
SK16E-04	4		
SK16E-05	5		
SK16E-06	6		
SK16E-08	8	24.6	45
SK16E-10	10		
SK16E-12	12	16	
SK16E-16	16		

Unit: mm



筒夾等級 Collet Grade	跳動精度 / Runout - Max μ 4 倍直徑前 - 4xD
A 級	$\leq 10\mu$
AA 級	$\leq 5\mu$

Model No.	Specification	Weight (kg)
SK10-8PCS	3,4,5,6,7,8,9,10	0.40
SK13-7PCS	3,4,5,6,8,10,12	0.80
SK16-7PCS	3,4,6,8,10,12,16	1.00
SK25-7PCS	6,8,10,12,16,20,25	2.10

Unit: mm

Collet Set

精密筒夾組

- When ordering, please specify the collet grade with A or AA.

For example:

SK10-06 AA or SK10E-04 AA,
SK10-8PCS AA or SK10E-6PCS AA

- The clamping range is 0.25mm if the inside diameter is less than 3mm.
- The clamping range is 0.5mm if the inside diameter is over than 3mm.
- SK COLLET SET FOR END MILL upon your request.
- 請於訂購時註明 A 級或 AA 級
例：SK10-06 AA or SK10E-04 AA / SK10-8PCS AA or SK10E-6PCS AA
- 筒夾的孔徑小於 3mm，其夾持範圍為 0.25mm；若大於 3mm 則為 0.5mm
- 如需 SK 立銑刀專用筒夾組，可另詢



Model No.	D	Weight (kg)
WASK06	19.05	0.30
WASK10 (WAVC06)	27	0.50
WASK13	33	0.65
WASK16 (WAVC12)	40	0.80
WASK20	48	0.80
WASK25 (WASG20)	54	0.85

Unit: mm

Wrench

扳手



Model No.	FIG.	D	Weight (kg)
WASK06C	1	19	0.08
WASK10C	1	25	0.12
WASK13C	2	33	0.18
WASK16C	2	40	0.20
WASK20C	2	48	0.22
WASK25C	2	54	0.25

Unit: mm

C-Type Wrench

C 型扳手



Fig. 1



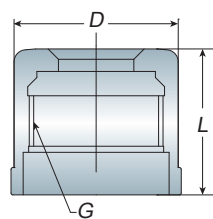
Fig. 2

Ann Way

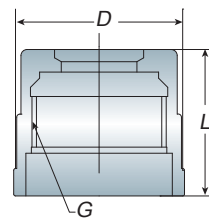
BT / NT series

ASK

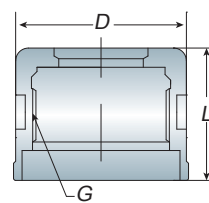
Nut 螺帽



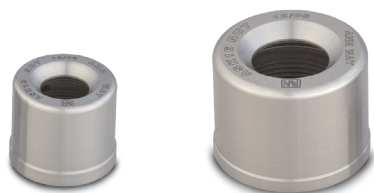
普通螺帽
Standard Nut



C 型螺帽
C Type Nut
ASK06/10



C 型螺帽
C Type Nut
ASK13/16/20/25

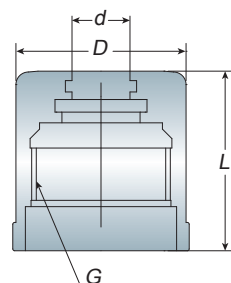


	Model No.	D	L	G	Weight (kg)
Standard Nut 普通螺帽	ASK06-NUT	19.05	21	M15x1.0P	0.02
	ASK10-NUT	27	24	M22x1.0P	0.04
	ASK13-NUT	33	27	M27x1.0P	0.08
	ASK16-NUT	40	31	M32x1.5P	0.11
	ASK20-NUT	48	30	M40x1.0P	0.14
	ASK25-NUT	54	37	M45x1.5P	0.23

	Model No.	D	L	G	Weight (kg)
C Type Nut C 型螺帽	ASK06C-NUT	19.05	21	M15x1.0P	0.02
	ASK10C-NUT	27	24	M22x1.0P	0.04
	ASK13C-NUT	33	27	M27x1.0P	0.08
	ASK16C-NUT	40	31	M32x1.5P	0.11
	ASK20C-NUT	48	30	M40x1.0P	0.15
	ASK25C-NUT	54	37	M45x1.5P	0.18



Coolant Nut 出水螺帽



Through tools
刀尖出水



- Coolant Nut design with oil seal (O-ring). Each nut includes one O-ring.
- Complete coolant condition must to use with coolant tool.
- O-ring is consumable and it can be bought separately.
- 此款出水螺帽為 "O" 型密封螺帽，每一個螺帽含有一個 O 型環
- 必須搭配中心出水刀具才有完全出水效果
- O 型環為損耗品，可單獨購買

Model No.	O-ring No.	d	D	L	Weight (kg)
ASK10-03CL	S-3	3	27	28.5	0.04
ASK10-04CL	S-4	4			
ASK10-05CL	S-5	5			
ASK10-06CL	S-6	6			
ASK10-07CL	S-7	7			
ASK10-08CL	S-8	8			
ASK10-09CL	S-9	9			
ASK10-10CL	S-10	10			
ASK16-03CL	S-3	3	40	37	0.12
ASK16-04CL	S-4	4			
ASK16-05CL	S-5	5			
ASK16-06CL	S-6	6			
ASK16-07CL	S-7	7			
ASK16-08CL	S-8	8			
ASK16-09CL	S-9	9			
ASK16-10CL	S-10	10			
ASK16-11CL	S-11	11			
ASK16-12CL	S-12	12			
ASK16-13CL	S-13	13			
ASK16-14CL	S-14	14			
ASK16-15CL	S-15	15			
ASK16-16CL	S-16	16			

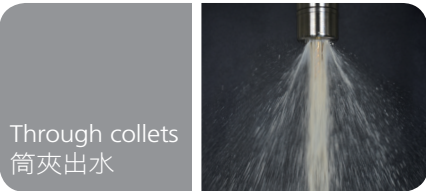
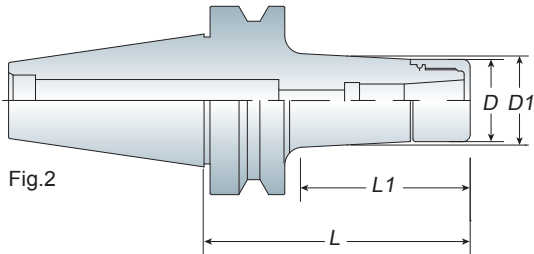
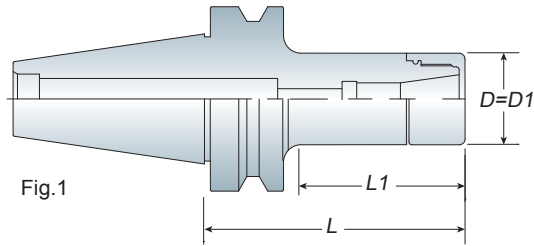
Unit: mm

High Speed Collet Chuck

高轉速高精度立銑刀本體

AVC

BT / NT
series



Features

- AVC long type collet with angle 8° increase clamping force and cutting rigidity and precision.
- Special nut design provides better cutting conditions and reducing cutting vibrations.
- Wrench must be ordered separately.
- Max Speed: 30,000 r.p.m G2.5
- 8° 長筒夾設計提升高夾持力，高剛性及高精度
- 刀桿柄壁的增厚設計大幅提升切削剛性
- 螺帽獨特設計可降低高轉速切削時的風阻及噪音並提升工作效能
- AVC 扳手為另購品
- 最高轉速可達 30,000 r.p.m G2.5

Model No.	FIG.	Clamping Range	D	D1	L	L1	Weight (kg)
BT30 AVC06-045	1	2~6	27	27	45	23	0.55
-060	2	2~6	27	29	60	35	0.60
-090	2	2~6	27	32	90	65	0.80
AVC10-060	1	3~10	33	33	60	40	0.70
-090	2	3~10	33	40	90	70	0.80
AVC12-060	1	3~12	40	40	60	37	0.70
-090	1	3~12	40	40	90	67	1.00
-120	1	3~12	40	40	120	97	1.30
BT40 AVC06-060	1	2~6	27	27	60	30	1.20
-090	2	2~6	27	31	90	60	1.35
-120	2	2~6	27	34	120	90	1.50
AVC10-060	1	3~10	33	33	60	35	1.30
-090	2	3~10	33	40	90	65	1.50
-120	2	3~10	33	44	120	95	1.70
AVC12-060	1	3~12	40	40	60	31	1.30
-090	2	3~12	40	44	90	60	1.60
-120	2	3~12	40	47	120	90	2.00
BT50 AVC06-105	2	2~6	27	32	105	62	4.10
-135	2	2~6	27	35	135	92	4.30
-165	2	2~6	27	38	165	122	4.50
AVC10-105	2	3~10	33	41	105	70	4.30
-135	2	3~10	33	44	135	100	4.50
-165	2	3~10	33	47	165	130	4.80
AVC12-105	2	3~12	40	44	105	62	4.30
-135	2	3~12	40	47	135	92	4.70
-165	2	3~12	40	51	165	122	5.10

Unit: mm

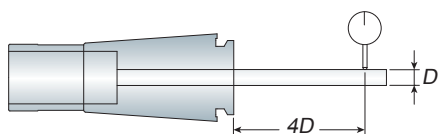


BT / NT
series

AVC

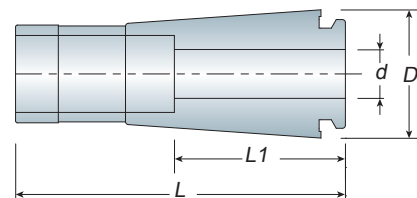


- When ordering, please specify the collet grade with A or AA.
For example: AVC12-08 AA.
- The tolerance of the tool shank should be h7.
- 請於訂購時註明 A 級或 AA 級
例：AVC12-08 AA
- AVC 筒夾夾持刀具柄徑公差為 h7



Collet

高精度立銑刀筒夾



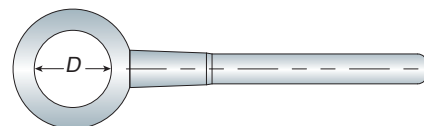
Model No.	d	D	L1	L	Weight (kg)
AVC06-02	2		14		0.02
AVC06-03	3		16		
AVC06-04	4	14	18	40	
AVC06-05	5		20		
AVC06-06	6		22		
AVC10-03	3		16		0.04
AVC10-04	4		18		
AVC10-05	5	17	20	45.5	
AVC10-06	6		22		
AVC10-08	8		28		
AVC10-10	10		30		0.06
AVC12-03	3		16		
AVC12-04	4		18		
AVC12-05	5		20		
AVC12-06	6		22		
AVC12-07	7	21	25	54	
AVC12-08	8		28		
AVC12-09	9		28		
AVC12-10	10		30		
AVC12-11	11		30		
AVC12-12	12		32		

Unit: mm

筒夾等級 Collet Grade	跳動精度 / Runout - Max μ 4 倍直徑前 - 4xD
A 級	$\leq 10\mu$
AA 級	$\leq 5\mu$

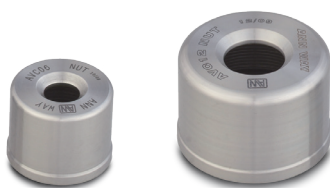
Bearing Wrench

軸承扳手



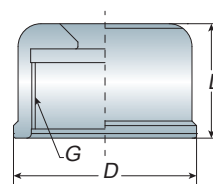
Model No.	D	Weight (kg)
WAVC06 (WASK10)	27	0.50
WAVC10 (WASK13)	33	0.65
WAVC12 (WASK16)	40	0.80

Unit: mm



Nut

螺帽



Model No.	D	L	G	Weight (kg)
AVC06-NUT	27	22	M21.5x1.0P	0.05
AVC10-NUT	33	20.5	M27x1.0P	0.08
AVC12-NUT	40	28	M34x1.0P	0.10

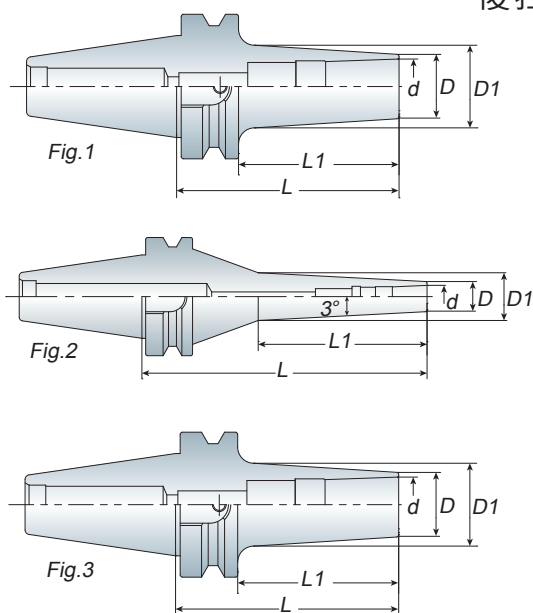
Unit: mm

High Speed Collet Chuck

後拉式夾頭刀桿

ADS

BT / NT
series



- ADS06, ADS08: 5mm Hex-Wrench
- ADS12, ADS16: 8mm Hex-Wrench
- ADS06, ADS08 使用 5mm 六角扳手
- ADS12, ADS16 使用 8mm 六角扳手

Features

- ADS tool holder is suitable for high-speed and high precision cutting. Tool holder designed without nut could reduce cutting vibration.
- Wrench is attached for each ADS tool holder.
- Max Speed: 30,000 r.p.m G2.5
- ADS 刀桿適用於高速精密加工。無螺帽設計，降低加工時物件干涉
- 筒夾後拉式設計，操作簡易
- 每支 ADS 刀桿均附 1 支扳手
- 最高轉速可達 30,000 r.p.m G2.5



P23- ADS Collet

Model No.	FIG.	Clamping Range (d)	D	D1	L1	L	Weight (kg)
BT30 ADS06-060	2	2~6	13	15.5	26	60	0.50
-090	2	2~6	13	18	50	90	0.60
ADS08-060	1	3~8	16	20.5	40	60	0.50
-075	1	3~8	16	22.5	55	75	0.60
ADS12-080	1	3~12	23	31	60	80	0.65
-110	1	3~12	23	35	90	110	0.90
BT40 ADS06-060	2	2~6	13	16	26	60	1.10
-090	2	2~6	13	17.5	43	90	1.20
-120	2	2~6	13	19.5	60	120	1.30
-150	2	2~6	13	21	76	150	1.50
ADS08-065	1	3~8	16	20	40	65	1.10
-090	1	3~8	16	23	60	90	1.20
-120	1	3~8	16	25.5	80	120	1.30
-150	2	3~8	16	32	90	150	1.50
ADS12-090	1	3~12	23	31	65	90	1.30
-120	1	3~12	23	38	95	120	1.70
-150	2	3~12	23	40	88	150	1.90
ADS16-095	1	5~16	28	35	70	95	1.40
-125	1	5~16	28	38	100	125	1.60
BT50 ADS06-150	1	2~6	13	24	115	150	4.00
ADS08-095	1	3~8	16	23	60	95	3.90
-110	1	3~8	16	25	75	110	3.90
ADS12-100	1	3~12	23	31	65	100	4.10
-150	1	3~12	23	38.5	115	150	4.40
ADS16-100	1	5~16	28	34.5	65	100	4.00
-125	1	5~16	28	35.5	90	125	4.20
BT40 ADS12D-075	3	3~12	30	37.5	50	75	1.60
-090	3	3~12	30	36.6	65	90	1.80
ADS16D-075	3	5~16	40	47.5	50	75	1.70
-090	3	5~16	40	46.5	65	90	1.90

Unit: mm

Jet through
端面出水



- ADS12 / ADS16 CL type upon your request.
For example: BT40 ADS12-090-CL
- ADS12 / ADS16 另有冷卻液貫穿型可供選擇，
請於訂購時於型號後面加 - CL
例 BT40 ADS12-090-CL

Ann Way

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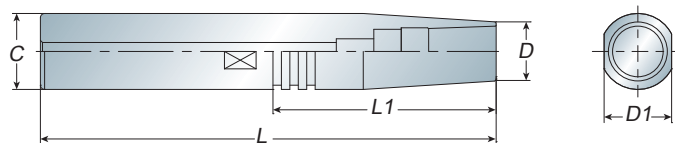


BT / NT
series

ADS

Straight Shank

直柄後拉式夾頭刀桿



- Wrench is attached for each ADS tool holder.
- 每支 ADS 刀桿均附 1 支扳手

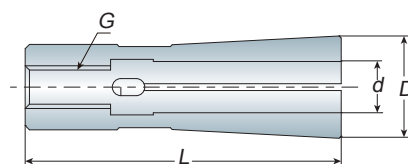
Model No.	Clamping Range	C	D	D1	L1	L	Weight (kg)
C12 ADS06-120	2~6	12	13	10	40	120	0.20
-150	2~6	12	13	10	40	150	0.20
C16 ADS06-150	2~6	16	13	14	38	150	0.20
-200	2~6	16	13	14	38	200	0.25
C20 ADS06-150	2~6	20	13	17	70	150	0.30
-200	2~6	20	13	17	70	200	0.40
ADS08-150	3~8	20	16	17	50	150	0.30
-200	3~8	20	16	17	100	200	0.40
C25 ADS08-150	3~8	25	16	22	50	150	0.45
-200	3~8	25	16	22	100	200	0.60

Unit: mm



Collet

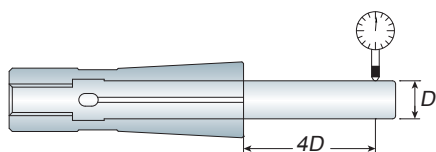
後拉筒夾



- When ordering, please specify the collet grade with A or AA. For example: ADS12-08AA
- 請於訂購時註明 A 級或 AA 級，例 ADS12-08AA

Model No.	d	D	L	G	Weight (kg)
ADS06	2,3,3.175,4,5,6	9.6	36	M5x0.8P	0.01
ADS08	3,3.175,4,5,6,7,8	12	37	M5x0.8P	0.02
ADS12	3,3.175,4,5,6,7,8,9,10,11,12	18	63	M8x1.25P	0.07
ADS16	5,6,7,8,9,10,11,12,13,14,15,16	24	61	M8x1.25P	0.13

Unit: mm



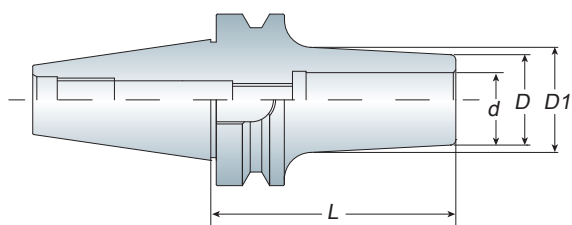
筒夾等級 Collet Grade	跳動精度 / Runout - Max μ 4 倍直徑前 - 4xD
A 級	$\leq 10\mu$
AA 級	$\leq 5\mu$

Shrink Chuck

燒結式刀桿

ASR

BT / NT
series



Model No.	d	D	D1	L	Weight (kg)
BT30 ASR04-075	4	14	19	75	0.55
ASR05-075	5	16	21	75	0.55
ASR06-075	6	16	21	75	0.55
ASR08-075	8	18	23	75	0.60
ASR10-075	10	22	27	75	0.60
ASR12-075	12	24	29	75	0.65
ASR16-075	16	28	33	75	0.70
BT40 ASR04-090	4	14	20	90	1.20
ASR05-090	5	16	22	90	1.20
ASR06-090	6	16	22	90	1.20
ASR08-090	8	18	24	90	1.20
ASR10-090	10	22	28	90	1.30
ASR12-090	12	24	30	90	1.30
ASR16-090	16	28	34	90	1.30
ASR20-100	20	34	41	100	1.50
ASR25-100	25	44	51	100	1.50
ASR32-100	32	44	51	100	1.55
BT50 ASR06-105	6	16	21	105	3.90
ASR08-105	8	18	25	105	4.00
ASR10-105	10	22	29	105	4.20
ASR12-105	12	24	31	105	4.40
ASR16-105	16	28	35	105	4.40
ASR20-105	20	34	41	105	4.70
ASR25-105	25	44	51	105	4.70
ASR32-105	32	44	51	105	5.00

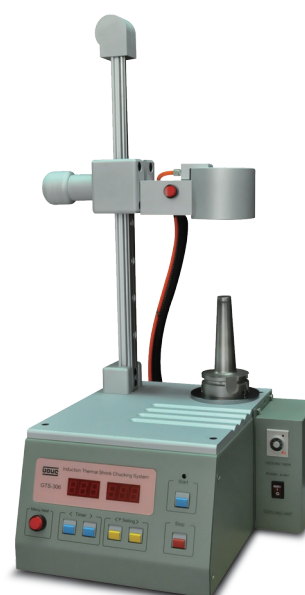
Unit: mm

- Heater specification => refer to below
- Tools are restricted by material of h6 carbide tool.
- 刀桿加熱器規格請參考下方
- 刀具限用 h6 鎢鋼刀具

Induction Shrink Machine

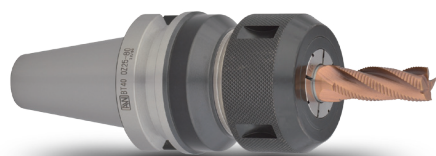
感應熱縮式燒結機

Model No.	GTS-306 LUXE
Electric current supply 電壓	3 phase 220VAC (50/60Hz)
Output current 電流	20A
Output power 消耗電力	4KW
Size 尺寸	232mm(W)×360mm(D)×610mm(H)
Weight 重量	13.50kgs



BT / NT
series

OZ



- OZ collet chuck can clamp drill, end mills and taps.
- Wrench must be ordered separately.
- OZ 重切削刀桿可用於夾持鑽頭、銑刀及絲攻刀具
- OZ 扳手為另購品



- When ordering, please specify the draw bolt with inch size or metric size.
- 請於訂購時，確認刀桿為英制或公制



- Wrench must be ordered separately.
- MTB type upon your request.
- OZ 扳手為另購品
- 亦有生產 MTB 型可另詢問



- Wrench must be ordered separately.
- OZ 扳手為另購品



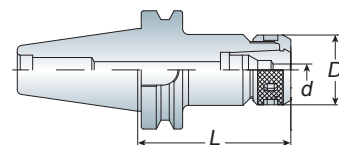
P26- Wrench

P26- OZ Collet

P26- OZ Nut

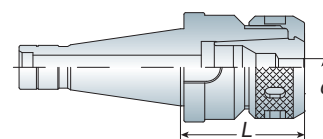
Collet Chuck

重切削筒夾本體



Model No.	d	D	L	Collet Type	Weight (kg)
BT40 OZ25-080	3~25	60	80	OZ25	1.70
-120	3~25	60	120	OZ25	2.60
OZ32-080	6~32	72	80	OZ32	2.10
-150	6~32	72	150	OZ32	3.60
BT50 OZ25-090	3~25	60	90	OZ25	4.50
-130	3~25	60	130	OZ25	5.10
OZ32-105	6~32	72	105	OZ32	5.40
-150	6~32	72	150	OZ32	6.60

Unit: mm

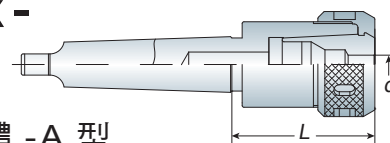


Model No.	d	L	Collet Type	Draw Bolt	Weight (kg)
NT30 OZ25-070	3~25	70	OZ25	1/2"-12	1.10
OZ32-100	6~32	100	OZ32	M12x1.75P	1.60
NT40 OZ25-070	3~25	70	OZ25	5/8"-11	1.60
OZ32-070	6~32	70	OZ32	M16x2.0P	2.00
NT50 OZ25-080	3~25	80	OZ25	1"-8	3.80
OZ32-080	6~32	80	OZ32	M24x3.0P	4.30

Unit: mm

Morse Taper Shank - Tang Type

莫氏錐度重切削筒夾本體 -A 型

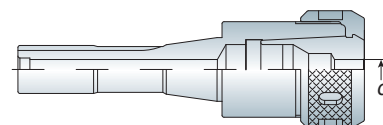


Model No.	d	L	Collet Type	Weight (kg)
MTA5 OZ25-075	3~25	75	OZ25	2.80
OZ32-075	6~32	75	OZ32	3.00

Unit: mm

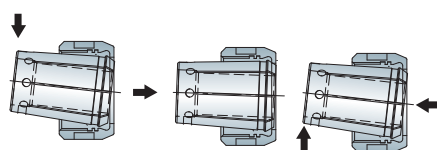
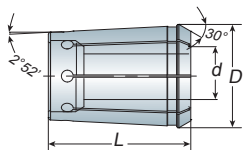
R8 Taper Shank

R8 重切削筒夾本體



Model No.	d	Collet Type	Weight (kg)
R8 OZ25	3~25	OZ25	1.25
OZ32	6~32	OZ32	2.20

Unit: mm



Collet

重切削筒夾

OZ

BT / NT
series

- Collet must be assembled into the clamping nut before inserting into the chuck
- Attaching, and detaching collets

Metric Size 公制

Model No.	D	L	d	Weight (kg)
OZ25	35.5	52	3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25	0.17
OZ32	44	60	6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32	0.36

Inch Size 英制

Model No.	D	L	d (Inch)	Weight (kg)
OZ25	35.5	52	1/8,3/16,1/4,5/16,3/8,7/16,1/2,9/16,5/8,11/16,3/4,13/16,7/8,15/16,1	0.18
OZ32	44	60	1/4,5/16,3/8,7/16,1/2,9/16,5/8,11/16,3/4,13/16,7/8,15/16,1, 1-1/8,1-1/4	0.36



Collet Set

重切削筒夾組

OZ25 Metric Size 公制

Model No.	Specification	PCS/SET	Weight (kg)
OZ25-07PCS	6,8,10,12,16,20,25	7PCS/SET	2.00
OZ25-15PCS	3,4,5,6,7,8,9,10,11,12,13,16,18,20,25	15PCS/SET	3.50

Inch Size 英制

Model No.	Specification	PCS/SET	Weight (kg)
OZ25-07PCS	1/4,5/16,3/8,1/2,5/8,3/4,1	7PCS/SET	2.10
OZ25-15PCS	1/8,3/16,1/4,5/16,3/8,7/16,1/2,9/16,5/8,11/16,3/4,13/16,7/8,15/16,1	15PCS/SET	3.30

OZ32 Metric Size 公制

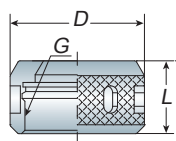
Model No.	Specification	PCS/SET	Weight (kg)
OZ32-08PCS	6,8,10,12,16,20,25,32	8PCS/SET	4.20
OZ32-15PCS	6,8,10,12,13,14,15,16,18,20,22,25,26,30,32	15PCS/SET	6.50

Inch Size 英制

Model No.	Specification	PCS/SET	Weight (kg)
OZ32-10PCS	1/4,5/16,3/8,1/2,5/8,3/4,7/8,1,1-1/8,1-1/4	10PCS/SET	4.10
OZ32-15PCS	1/4,5/16,3/8,7/16,1/2,9/16,5/8,11/16,3/4,13/16,7/8,15/16,1,1-1/8,1-1/4	15PCS/SET	6.30



- When ordering, please specify the collet with inch size or metric size.
- 請於訂購時確認筒夾為英制或公制

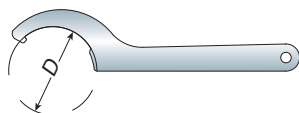
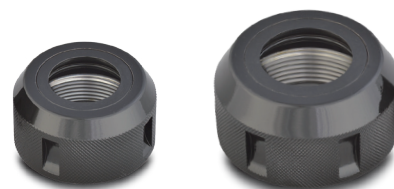


Nut

重切削螺帽

Model No.	L	D	G	Collet Type	Weight (kg)
BN25	30	60	M48x2.0P	OZ25	0.30
BN32	33	78	M60x2.5P	OZ32	0.65

Unit: mm

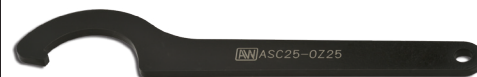


Wrench

重切削扳手

Model No.	D	Suit For	Weight (kg)
WOZ25	60	BN25	0.30
WOZ32	78	BN32	0.40

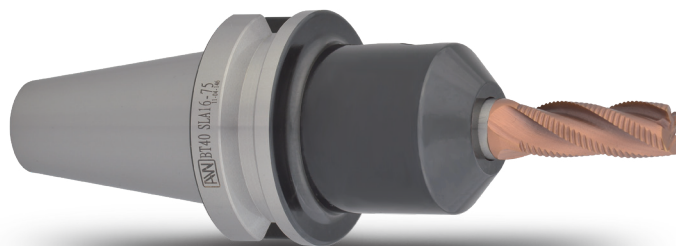
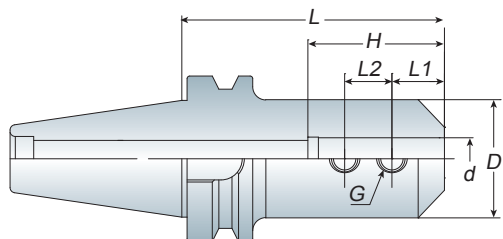
Unit: mm



Ann Way

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Features

- For straight shank end mill.
- End mill is held by two set screws.
- End mill holder comes equipped with set screws.
- 適用於夾持直柄銑刀，可用在一般銑削加工
- 夾持銑刀之固定螺絲共 2 個
- 刀桿本身已裝配固定螺絲

Model No.	d	D	L	L1	L2	H	G	Weight (kg)
BT30 SLA06-060	6	25	60	12	10	32	M6	0.60
SLA08-060	8	28	60	14	12	36	M8	0.65
SLA10-060	10	35	60	15	14	40	M10	0.70
SLA12-060	12	40	60	20	16	45	M10	0.80
SLA16-075	16	45	75	22	18	50	M10	0.80
SLA20-075	20	50	75	25	20	60	M12	1.10
SLA25-075	25	55	75	25	22	65	M12	1.10
BT40 SLA06-075	6	25	75	12	10	32	M6	1.20
-100	6	25	100	12	10	32	M6	1.30
SLA08-075	8	28	75	14	12	36	M8	1.25
-100	8	28	100	14	12	36	M8	1.40
SLA10-075	10	35	75	15	14	40	M10	1.35
-100	10	35	100	15	14	40	M10	1.50
SLA12-075	12	40	75	20	16	45	M10	1.45
-100	12	40	100	20	16	45	M10	1.65
SLA14-075	14	42	75	18	16	45	M10	1.50
-100	14	42	100	18	16	45	M10	1.75
SLA16-075	16	45	75	20	18	50	M10	1.50
-100	16	45	100	20	18	50	M10	1.85
SLA18-075	18	48	75	20	18	50	M12	1.60
-100	18	48	100	22	18	50	M12	1.90
SLA20-075	20	50	75	20	18	60	M12	1.60
-100	20	50	100	25	20	60	M12	2.00
SLA25-075	25	55	75	22	18	65	M12	1.60
-100	25	55	100	25	22	65	M12	2.00
SLA32-090	32	60	90	30	22	70	M16	2.00
SLA40-105	40	80	105	30	22	80	M16	3.10
SLA42-105	42	80	105	35	25	80	M20	3.10
BT50 SLA06-105/150/200	6	25	105/150/200	12	10	32	M6	4.10/4.30/4.60
SLA08-105/150/200	8	28	105/150/200	14	12	36	M8	4.10/4.35/4.65
SLA10-105/150/200	10	35	105/150/200	15	14	40	M10	4.20/4.50/5.10
SLA12-105/150/200	12	40	105/150/200	20	16	45	M10	4.35/4.80/5.30
SLA14-105	14	42	105	18	16	45	M10	4.35
SLA16-105/150/200	16	45	105/150/200	22	18	50	M10	4.45/4.90/5.60
-250/300	16	45	250/300	22	18	50	M10	6.60/6.90
SLA18-105	18	48	105	22	18	55	M10	4.50
SLA20-105/150/200	20	50	105/150/200	25	20	60	M12	4.50/5.20/5.90
-250/300	20	50	250/300	25	20	60	M12	6.60/7.75
SLA25-105/150/200	25	55	105/150/200	25	22	65	M12	4.60/5.40/6.50
-250/300	25	55	250/300	25	22	65	M12	7.00/8.50
SLA32-105/150/200	32	60	105/150/200	30	22	70	M16	4.70/5.80/6.60
-250/300	32	60	250/300	30	22	70	M16	7.60/9.30
SLA40-105/150/200	40	80	105/150/200	30	22	80	M16	5.40/7.00/9.00
-250	40	80	250	30	22	80	M16	10.80
SLA42-105/150/200	42	80	105/150/200	35	25	80	M20	5.50/7.00/8.90
-250	42	80	250	35	25	80	M20	10.80
SLA50.8-105	50.8	95	105	35	25	90	M20	6.00
SLA50.8-150	50.8	95	150	35	25	90	M20	8.50

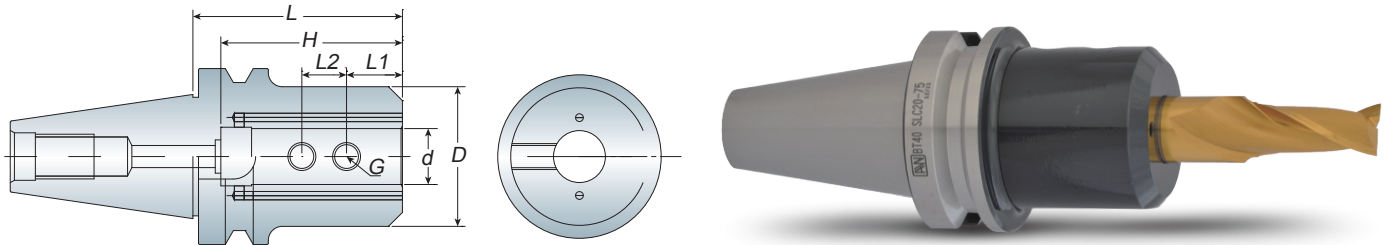
Unit: mm

End Mill Holder - Jet Through Coolant Type

側固端銑刀桿 - 端面出水型

SLC

BT / NT
series



Features

- For straight shank end mill.
- End mill is held by two set screws.
- End mill holder comes equipped with set screws.
- 適用於夾持直柄銑刀，可用在一般銑削加工
- 夾持銑刀之固定螺絲共 2 個
- 刀桿本身已裝配固定螺絲

Model No.	d	D	L	L1	L2	H	G	Weight (kg)
BT40 SLC06-075	6	25	75	12	10	32	M6	1.20
-100	6	25	100	12	10	32	M6	1.30
SLC08-075	8	28	75	14	12	36	M8	1.25
-100	8	28	100	14	12	36	M8	1.40
SLC10-075	10	35	75	15	14	40	M10	1.35
-100	10	35	100	15	14	40	M10	1.50
SLC12-075	12	40	75	20	16	45	M10	1.45
-100	12	40	100	20	16	45	M10	1.65
SLC14-075	14	42	75	18	16	45	M10	1.50
-100	14	42	100	18	16	45	M10	1.75
SLC16-075	16	45	75	20	18	50	M10	1.50
-100	16	45	100	20	18	50	M10	1.85
SLC18-075	18	48	75	20	18	50	M12	1.60
-100	18	48	100	22	18	50	M12	1.90
SLC20-075	20	50	75	20	18	60	M12	1.60
-100	20	50	100	25	20	60	M12	2.00
SLC25-075	25	55	75	22	18	65	M12	1.60
-100	25	55	100	25	22	65	M12	2.00
SLC32-090	32	60	90	30	22	70	M16	2.00
SLC40-105	40	80	105	30	22	80	M16	3.10
SLC42-105	42	80	105	35	25	80	M20	3.10
BT50 SLC06-105	6	25	105	12	10	32	M6	4.10
SLC08-105	8	28	105	14	12	36	M8	4.10
SLC10-105	10	35	105	15	14	40	M10	4.20
SLC12-105	12	40	105	20	16	45	M10	4.35
SLC14-105	14	42	105	18	16	45	M10	4.35
SLC16-105	16	45	105	22	18	50	M10	4.45
SLC18-105	18	48	105	22	18	55	M10	4.50
SLC20-105	20	50	105	25	20	60	M12	4.50
SLC25-105	25	55	105	25	22	65	M12	4.60
SLC32-105	32	60	105	30	22	70	M16	4.70
SLC40-105	40	80	105	30	22	80	M16	5.40
SLC42-105	42	80	105	30	25	80	M20	5.50

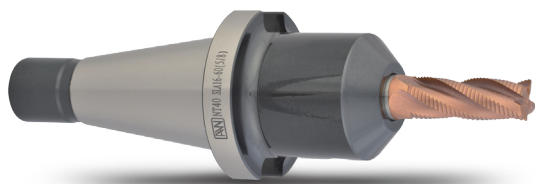
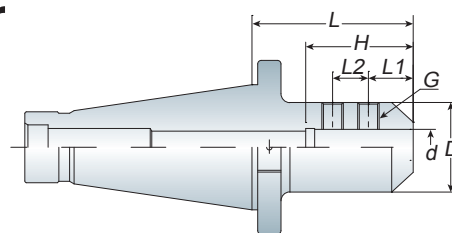
Unit: mm

BT / NT
series

SLA

End Mill Holder

側固端銑刀桿



- When ordering, please specify the draw bolt with inch size or metric size.
- For straight shank end mill.
- End mill is held by two set screws.
- End mill holder comes equipped with set screws.
- 請於訂購時，確認刀桿為英制或公制
- 適用於夾持直柄銑刀，可用在一般銑削加工
- 夾持銑刀之固定螺絲共 2 個
- 刀桿本身已裝配固定螺絲

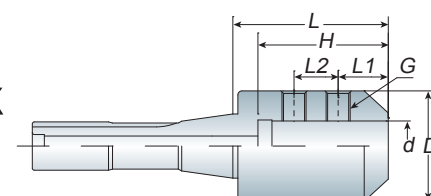
Model No.	d	D	L	L1	L2	H	G	Draw Bolt	Weight (kg)
NT30 SLA06-055	6	25	55	12	10	32	M6	1/2"-12 M12x1.75P	0.60
SLA08-055	8	28	55	14	12	36	M8		0.60
SLA10-055	10	35	55	15	14	40	M10		0.65
SLA12-055	12	40	55	20	16	45	M10		0.80
SLA16-060	16	45	60	22	18	50	M10		0.90
SLA20-065	20	50	65	25	20	60	M12		1.00
SLA25-075	25	55	75	25	22	65	M12		1.30
NT40 SLA06-055	6	25	55	12	10	32	M6	5/8"-11 M16x2.0P	1.10
SLA08-055	8	28	55	14	12	36	M8		1.10
SLA10-055	10	35	55	15	14	40	M10		1.20
SLA12-055	12	40	55	20	15	45	M10		1.20
SLA16-060	16	45	60	22	16	50	M10		1.35
SLA20-065	20	50	65	20	18	60	M12		1.50
SLA25-075	25	55	75	20	22	65	M12		1.75
SLA32-090	32	60	90	30	22	70	M16		2.10
SLA42-105	42	80	105	32	24	80	M16		3.60
NT50 SLA06-090	6	25	90	12	10	32	M6	1"-8 M24x3.0P	3.10
SLA08-090	8	28	90	14	12	36	M8		3.10
SLA10-090	10	35	90	15	14	40	M10		3.15
SLA12-090	12	40	90	20	16	45	M10		3.30
SLA16-090	16	45	90	22	18	50	M10		3.60
SLA20-090	20	50	90	25	20	60	M12		3.65
-150	20	50	150	25	20	60	M12		4.70
SLA25-090	25	55	90	25	22	65	M12		3.80
-150	25	55	150	25	22	65	M12		4.90
SLA32-090	32	60	90	30	22	70	M16		4.00
-150	32	60	150	30	22	70	M16		5.30
-200	32	60	200	30	22	70	M16		6.30
SLA42-105	42	80	105	32	24	80	M16		5.10
SLA50.8-105	50.8	95	105	35	25	90	M20		6.10

Unit: mm



R8 Taper Shank

R8 側固端銑刀桿



- For straight shank end mill.
- End mill is held by two set screws.
- End mill holder comes equipped with set screws.
- 適用於夾持直柄銑刀，可用在一般銑削加工
- 夾持銑刀之固定螺絲共 2 個
- 刀桿本身已裝配固定螺絲

Model No.	d	D	L	L1	L2	H	G	Weight (kg)
R8 SLA06-055	6	25	55	12	10	32	M6	0.60
SLA08-055	8	28	55	14	12	36	M8	0.77
SLA10-055	10	35	55	15	14	40	M10	0.77
SLA12-055	12	40	55	18	16	45	M10	0.90
SLA16-060	16	45	60	20	18	50	M10	1.04
SLA20-065	20	50	65	25	20	60	M12	1.21
SLA25-075	25	55	75	25	22	65	M12	1.39

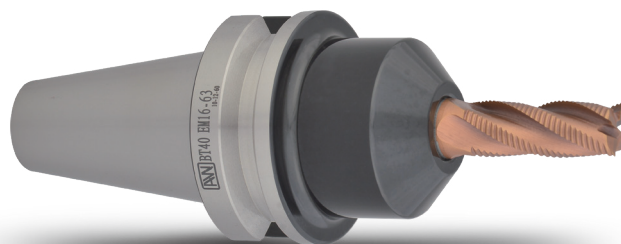
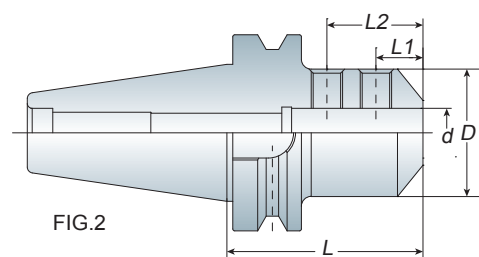
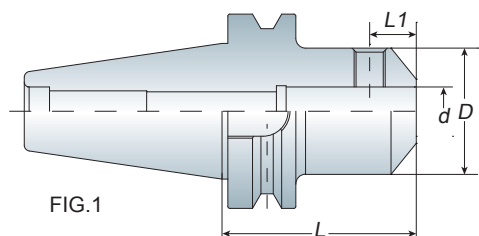
Unit: mm

End Mill Holder - Weldon

側固端銑刀桿（歐規）

EM

BT / NT
series



Model No.	FIG.	d	D	L	L1	L2	Weight (kg)
BT30 EM06-050	1	6	25	50	18	-	0.55
EM08-050	1	8	28	50	18	-	0.60
EM10-050	1	10	35	50	20	-	0.70
EM12-050	1	12	42	50	22.5	-	0.75
EM16-063	1	16	48	63	24	-	0.90
EM20-070	1	20	52	70	25	-	1.10
BT40 EM06-050	1	6	25	50	18	-	1.15
EM08-050	1	8	28	50	18	-	1.15
EM10-063	1	10	35	63	20	-	1.30
EM12-063	1	12	42	63	22.5	-	1.40
EM16-063	1	16	48	63	24	-	1.40
EM20-063	1	20	52	63	25	-	1.45
EM25-090	2	25	65	90	24	49	2.20
EM32-100	2	32	72	100	24	52	2.70
BT50 EM06-063	1	6	25	63	18	-	3.90
EM08-063	1	8	28	63	18	-	3.90
EM10-063	1	10	35	63	20	-	4.00
EM12-080	1	12	42	80	22.5	-	4.20
EM16-080	1	16	48	80	24	-	4.30
EM20-080	1	20	52	80	25	-	4.35
EM25-100	2	25	65	100	24	49	4.90
EM32-105	2	32	72	105	24	52	5.30
EM40-110	2	40	90	110	30	62	5.70

Unit: mm

Features

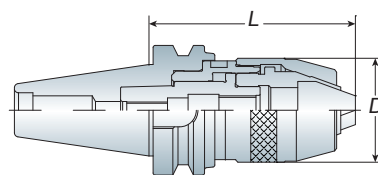
- For straight shank end mill.
- End mill is held by one (FIG.1) or two (FIG.2) set screws.
- End mill holder comes equipped with set screws.
- 適用於夾持直柄銑刀，可用在一般銑削加工
- 夾持銑刀之固定螺絲分為一個 (FIG.1) 或兩個 (FIG.2)
- 刀桿本身已裝配固定螺絲

BT / NT
series

APU

Drill Chuck Holder

直截式鑽夾頭刀桿



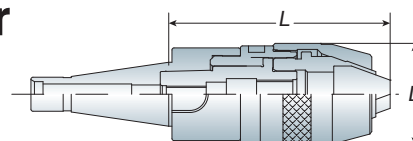
- The shank and keyless drill chuck are combined together so that to avoid the drill chuck slipping out for heavy-duty and high-speed cutting.
- Wrench is attached for each APU drill chuck holder.
- APU 刀桿和鑽夾頭結為一體，可避免鑽頭於高速及重切削時掉落或鬆脫
- 每支 APU 刀桿均附 1 支扳手

Model No.	Clamping Range	D	L		Weight (kg)
			Min.	Max.	
BT30 APU08-080	1~8	36.3	75	82	1.00
APU13-100	1~13	51.5	97	104.5	1.50
BT40 APU08-085	1~8	36.3	79	86.5	1.50
APU13-110	1~13	51.5	98	109	2.00
APU16-130	3~16	58	116	130	2.60
BT50 APU08-095	1~8	36.3	90	97.5	4.20
APU13-120	1~13	51.5	109	120	4.70
-180	1~13	51.5	169	180	5.80
APU16-130	3~16	58	116	130	5.10
-190	3~16	58	176	190	6.20

Unit: mm

Drill Chuck Holder

直截式鑽夾頭刀桿



- When ordering, please specify the draw bolt with inch size or metric size.
- The shank and keyless drill chuck are combined together so that to avoid the drill chuck slipping out for heavy-duty and high-speed cutting.
- Wrench is attached for each APU drill chuck holder.
- 請於訂購時，確認刀桿為英制或公制
- APU 刀桿和鑽夾頭結為一體，可避免鑽頭於高速及重切削時掉落或鬆脫
- 每支 APU 刀桿均附 1 支扳手

Model No.	Clamping Range	D	L		Draw Bolt	Weight (kg)
			Min.	Max.		
NT30 APU08-080	1~8	36.3	75	82	1/2"-12	0.90
APU13-100	1~13	51.5	94	104.5	M12x1.75P	1.65
NT40 APU08-085	1~8	36.3	79	86.5	5/8"-11	1.50
APU13-110	1~13	51.5	98	109	M16x2.0P	2.10
APU16-130	3~16	58	116	130		2.50
NT50 APU08-095	1~8	36.3	90	97.5		3.80
APU13-120	1~13	51.5	109	120	1"-8	4.10
-180	1~13	51.5	169	180	M24x3.0P	4.80
APU16-130	3~16	58	116	130		4.50
-190	3~16	58	176	190		5.80

Unit: mm

Morse Taper Shank

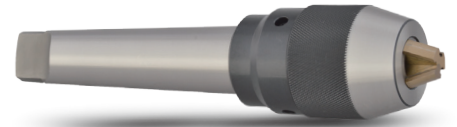
莫氏錐度鑽夾頭刀桿

APU

BT / NT
series

Model No.	Code No.	Size Type	Clamping Range		Taper Type	A	B	D	Wrench	Weight (kg)
			mm	inch						
MTA2 APU08	12601	8S	0.3~8	1/64~5/16	MTA2	142	61	37	12802	0.70
MTA2 APU10	12601-1	10S	0.3~10	1/64~3/8	MTA2	151	70	43	12804	1.00
MTA2 APU13	12602-1	13S	0.3~13	1/64~1/2	MTA2	162	81	50	12806	1.25
MTA3 APU13	12602	13S	0.3~13	1/64~1/2	MTA3	180	81	50	12806	1.40
MTA4 APU13	12603	13S	0.3~13	1/64~1/2	MTA4	206	81	50	12806	1.70
MTA3 APU16	12604	16S	3~16	1/8~5/8	MTA3	186	85	58	12808	1.70
MTA4 APU16	12605	16S	3~16	1/8~5/8	MTA4	212	85	58	12808	2.00

Unit: mm

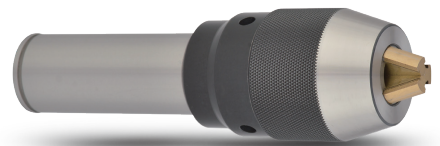


Straight Shank

直柄鑽夾頭刀桿

Model No.	Code No.	Size Type	Clamping Range		Taper Type	A	B	D	Wrench	Weight (kg)
			mm	inch						
C12 APU03	12605-1	3S	0.3~3	1/64~1/8	C12	88.5	38.5	24	-	0.20
C16 APU06	12605-2	6S	0.3~6	1/64~1/4	C16	104	54	33	12801	0.50
C20 APU08	12606	8S	0.3~8	1/64~5/16	C20	121	61	37	12802	0.70
C20 APU13	12607	13S	0.3~13	1/64~1/2	C20	141	81	50	12806	1.30
C25 APU13	12608	13S	0.3~13	1/64~1/2	C25	161	81	50	12806	1.40
C32 APU13	12609	13S	0.3~13	1/64~1/2	C32	162	81	50	12806	1.65
C20 APU16	12610	16S	3~16	1/8~5/8	C20	145	85	58	12808	1.55
C25 APU16	12611	16S	3~16	1/8~5/8	C25	165	85	58	12808	1.70
C32 APU16	12612	16S	3~16	1/8~5/8	C32	167	85	58	12808	1.90

Unit: mm

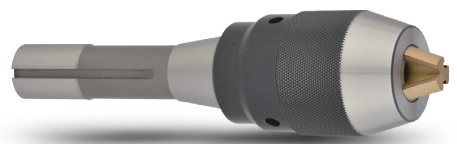


R8 Taper Shank

R8 鑽夾頭刀桿

Model No.	Code No.	Size Type	Clamping Range		Taper Type	A	B	D	Wrench	Weight (kg)
			mm	inch						
R8 APU13	12613	13S	0.3~13	1/64~1/2	R8	182	81	50	12806	1.50
R8 APU16	12614	16S	3~16	1/8~5/8	R8	188	85	58	12808	1.80

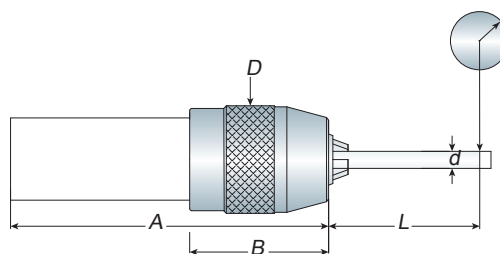
Unit: mm



Run Out inspection Table

Size Type	d	L	Max. Run-Out
3S	1.5	30	0.05
	3	30	
6S	3	35	0.05
	4	35	
	6	35	
8S	4	35	0.05
	6	35	
	8	50	
10S	5	35	0.05
	6	35	
	10	58	
13S	6	55	0.05
	10	55	
	13	75	
16S	6	55	0.05
	10	55	
	16	80	

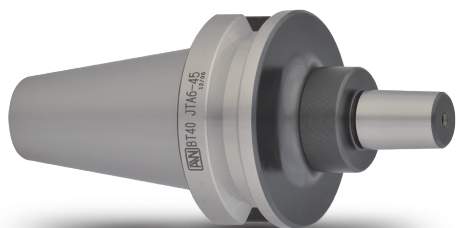
Unit: mm



- Designed together with arbor structure makes its performance perfect for drilling press and machine center.
- Precisely machine and ground component ensure the tolerance and accuracy.
- Wrench is attached for each APU drill chuck holder.
- 附有夾頭柄結構之設計，使得它更適於銑床及綜合切削機且有更趨於完美之表現
- 精密的機械工學和堅固耐用的組成確保了耐力及精度
- 每支 APU 刀桿均附 1 支扳手

BT / NT
series

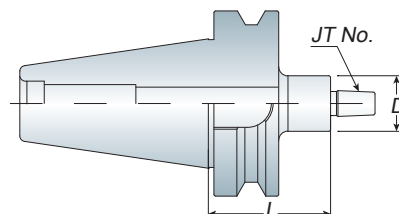
JTA



- Keyless drill mount must be ordered separately.
- 鑽夾頭為另購品

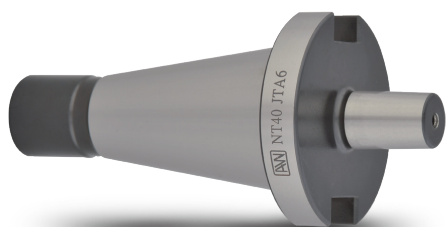
Drill Chuck Holder

鑽夾頭刀桿



Model No.	JT. No.	D	L	Weight (kg)
BT30 JTA1-045	JTA1	30	45	0.60
-090	JTA1	30	90	0.90
JTA2S-045	JTA2S	30	45	0.60
-090	JTA2S	30	90	0.90
JTA2-045	JTA2	30	45	0.60
-090	JTA2	30	90	0.90
JTA6-045	JTA6	30	45	0.65
-090	JTA6	30	90	0.90
BT40 JTA1-045	JTA1	30	45	1.20
-090	JTA1	30	90	1.45
JTA2S-045	JTA2S	30	45	1.20
-090	JTA2S	30	90	1.45
JTA2-045	JTA2	30	45	1.20
-090	JTA2	30	90	1.45
JTA6-045	JTA6	30	45	1.25
-090	JTA6	30	90	1.50
BT50 JTA1-045	JTA1	30	45	3.95
-105	JTA1	30	105	4.30
JTA2S-045	JTA2S	30	45	4.00
-105	JTA2S	30	105	4.30
JTA2-045	JTA2	30	45	4.00
-105	JTA2	30	105	4.30
JTA3-045	JTA3	35	45	4.00
-105	JTA3	35	105	4.30
JTA6-045	JTA6	30	45	4.00
-105	JTA6	30	105	4.30

Unit: mm

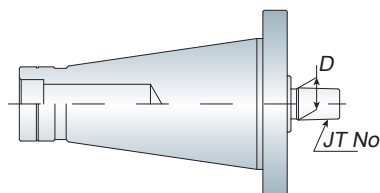


- When ordering, please specify the draw bolt with inch size or metric size.
- Keyless drill mount must be ordered separately.
- 請於訂購時，確認刀桿為英制或公制
- 鑽夾頭為另購品



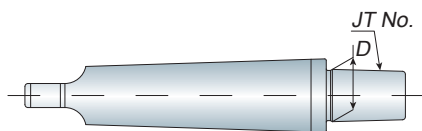
Drill Chuck Holder

鑽夾頭刀桿



Model No.	JT. No.	D	Draw Bolt	Weight (kg)
NT30 JTA1	JTA1	9.754	1/2"-12 M12x1.75P	0.50
JTA2	JTA2	13.94		0.50
JTA6	JTA6	17.17		0.50
NT40 JTA1	JTA1	9.754	5/8"-11 M16x2.0P	1.00
JTA2	JTA2	13.94		1.00
JTA6	JTA6	17.17		1.00
NT50 JTA1	JTA1	9.754	1"-8 M24x3.0P	2.90
JTA2	JTA2	13.94		3.00
JTA6	JTA6	17.17		3.00

Unit: mm

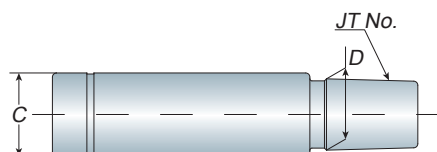


Morse Taper Shank

莫氏錐度鑽夾頭刀桿

Model No.	JT.No.	D	Weight (kg)
MTA2 JTA6	6	17-7	0.30
MTA3 JTA6	6	17-7	0.35
MTA4 JTA6	6	17-7	0.70
MTA5 JTA6	6	17-7	1.65

Unit: mm

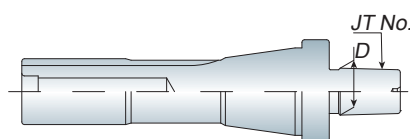


Straight Shank

直柄鑽夾頭刀桿

Model No.	JT.No.	C	D	Weight (kg)
C20 JTA1	1	20	9.754	0.15
JTA2	2	20	13.94	0.20
JTA6	6	20	17.17	0.30
C25 JTA1	1	25	9.754	0.25
JTA2	2	25	13.94	0.30
JTA6	6	25	17.17	0.35

Unit: mm



R8 Taper Shank

R8 鑽夾頭刀桿

Model No.	JT.No.	D	Weight (kg)
R8 JTA1	1	9.754	0.40
JTA2	2	13.94	0.45
JTA6	6	17.17	0.45

Unit: mm

JTA

BT / NT
series



- Above JTA holder uses with keyless drill mount that must be ordered separately.
- 上列產品皆需搭配鑽夾頭使用。鑽夾頭為另購品。



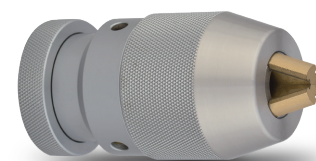
P34/35- Keyless
Drill Mount

#122 Keyless Drill Mount - Special Heavy Duty Type

#122 鑽夾頭特重系列

Model No.	Code No.	Size Type	Clamping Range		JT No.	Length		Outer Dia.	Weight (kg)
			mm	inch		Open	Closed		
13S-JT6	12203-2	13S	0.3~13	1/64~1/2	JT6	90	102	50	1.00
16S-JT6	12205-1	16S	3~16	1/8~5/8	JT6	97	110	57	1.35

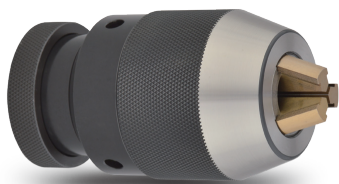
Unit: mm



- Extremely high accuracy and precision design, suitable for CNC machine and machine center. All parts are ground, heat treated, surface treated and under specific QC condition.
- 十分高精密之設計，適用於 CNC 及綜合切削機。所有構成部份皆經過電鍍及表面熱處理且在嚴格品質管制控制之下

#123 Keyless Drill Mount - Heavy Duty Type

#123 鑽夾頭重型系列



- Industrial design especially for milling machine. All hardened parts ensure long life and safety while in operation.
- 擁有工學設計，特別是針對銑床及鑽床機械。所有堅固的組成部份必能確保操作期間此鑽夾頭之安全性及高長效使用壽命

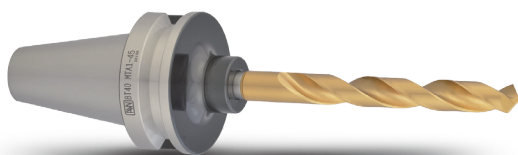
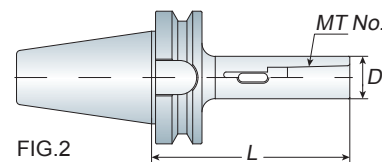
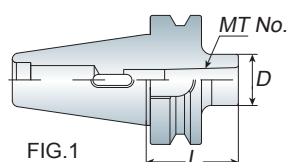
Model No.	Code No.	Size Type	Clamping Range		JT No.	Length		Outer Dia.	Weight (kg)
			mm	inch		Open	Closed		
13H-JT6	12304-2	13H	0.3~13	1/64~1/2	JT6	90	102	49	0.95
16H-JT6	12305-1	16H	3~16	1/8~5/8	JT6	97	110	55	1.30

Unit: mm

MTA

Morse Taper Holder

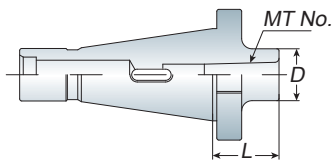
莫氏錐度刀桿 -A 型



- The tool holder for morse taper shank with internal tang.

Model No.	FIG.	MT. NO.	D	L	Capacity			Weight (kg)
					Drill	Reamer	End mill	
BT30 MTA1-045	1	MTA1	25	45	2~14	5~14	10~14	0.50
-120	2	MTA1	25	120	2~14	5~14	10~14	0.80
MTA2-060	1	MTA2	32	60	14~23	14.5~23	16~22	0.60
-120	2	MTA2	32	120	14~23	14.5~23	16~22	1.00
MTA3-090	1	MTA3	40	90	23~32	24~32	24~32	0.90
-135	2	MTA3	40	135	23~32	24~32	24~32	1.30
BT40 MTA1-045	1	MTA1	25	45	2~14	5~14	10~14	1.10
-120	2	MTA1	25	120	2~14	5~14	10~14	1.40
-180	2	MTA1	25	180	2~14	5~14	10~14	1.70
MTA2-045	1	MTA2	32	45	14~23	14.5~23	16~22	1.10
-120	2	MTA2	32	120	14~23	14.5~23	16~22	1.60
-180	2	MTA2	32	180	14~23	14.5~23	16~22	2.00
MTA3-075	1	MTA3	40	75	23~32	24~32	24~32	1.20
-135	2	MTA3	40	135	23~32	24~32	24~32	1.90
-180	2	MTA3	40	180	23~32	24~32	24~32	2.40
MTA4-090	1	MTA4	50	90	32~50	32~50	35~50	1.50
-165	2	MTA4	50	165	32~50	32~50	35~50	2.60
BT50 MTA1-045	1	MTA1	25	45	2~14	5~14	10~14	3.80
-120	2	MTA1	25	120	2~14	5~14	10~14	4.20
-180	2	MTA1	25	180	2~14	5~14	10~14	4.50
MTA2-045	1	MTA2	32	45	14~23	14.5~23	16~22	3.80
-135	2	MTA2	32	135	14~23	14.5~23	16~22	4.40
-180	2	MTA2	32	180	14~23	14.5~23	16~22	4.70
MTA3-045	1	MTA3	40	45	23~32	24~32	24~32	3.60
-150	2	MTA3	40	150	23~32	24~32	24~32	4.70
-180	2	MTA3	40	180	23~32	24~32	24~32	5.10
MTA4-075	1	MTA4	50	75	32~50	32~50	35~50	3.80
-180	2	MTA4	50	180	32~50	32~50	35~50	5.50
MTA5-105	1	MTA5	65	105	50~75	50	40~75	4.10
-210	2	MTA5	65	210	50~75	50	40~75	6.80

Unit: mm



Morse Taper Holder

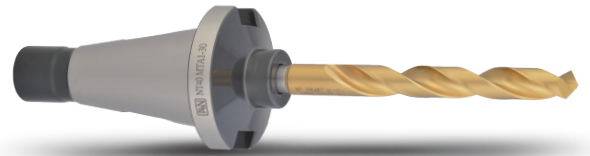
莫氏錐度刀桿 -A 型

MTA

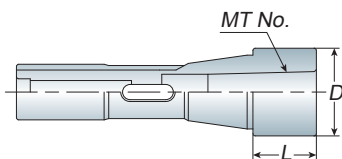
BT / NT
series

Model No.	MT. NO.	D	L	Draw Bolt	Weight (kg)
NT30 MTA1-045	MTA1	25	45	1/2"-12 M12x1.75P	0.50
MTA2-050	MTA2	32	50		0.50
MTA3-065	MTA3	40	65		0.75
NT40 MTA1-030	MTA1	25	30	5/8"-11 M16x2.0P	0.90
MTA2-040	MTA2	32	40		0.95
MTA3-070	MTA3	40	70		1.20
MTA4-090	MTA4	50	90		1.50
NT50 MTA2-030	MTA2	32	30	1"-8 M24x3.0P	2.80
MTA3-030	MTA3	40	30		2.80
MTA4-070	MTA4	50	70		3.10
MTA5-105	MTA5	65	105		4.00

Unit: mm



- The tool holder for morse taper shank with internal tang.
- When ordering, please specify the draw bolt with inch size or metric size.
- 請於訂購時，確認刀桿為英制或公制

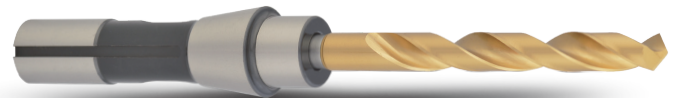


R8 Taper Shank

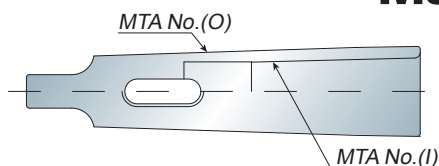
R8 莫氏錐度刀桿 -A 型

Model No.	MT. NO.	D	L	Weight (kg)
R8 MTA1-020	MTA1	25	20	0.40
MTA2-030	MTA2	32	30	0.45
MTA3-050	MTA3	40	50	0.50

Unit: mm



- The tool holder for morse taper shank with internal tang.



Morse Taper Sleeve

莫氏鑽頭套筒

Model No.	MTA No. (O)	MTA No. (I)	Weight (kg)
MTA3-MTA1	MTA3	MTA1	0.25
-MTA2	MTA3	MTA2	0.20
MTA4-MTA1	MTA4	MTA1	0.55
-MTA2	MTA4	MTA2	0.50
-MTA3	MTA4	MTA3	0.45
MTA5-MTA1	MTA5	MTA1	1.50
-MTA2	MTA5	MTA2	1.45
-MTA3	MTA5	MTA3	1.30
-MTA4	MTA5	MTA4	1.10



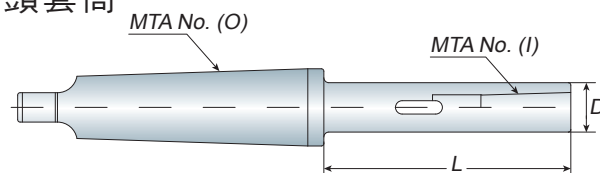
- Morse taper sleeve is used to convert morse taper shank tools.

BT / NT
series

MTA

Morse Taper Extension

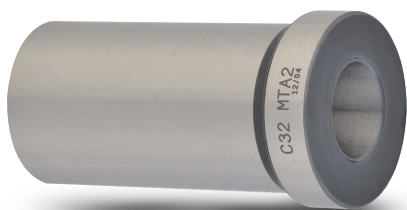
莫氏延長鑽頭套筒



- When ordering, please specify the length (L).
- Morse taper extension is designed to covert morse taper shank tool and also extend the lenght of taper shank tool.
- 請於訂購時，確認 L 的長度

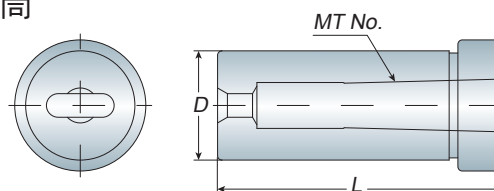
Model No.	MTA No. (O)	MTA No. (I)	D	L	Weight (kg)
MTA3-MTA1-L	MTA3	MTA1	20	100,150	0.65/0.85
MTA3-MTA2-L		MTA2	25	100,150	0.70/0.95
MTA3-MTA3-L		MTA3	32	100,150,200	0.70/1.10/1.10
MTA4-MTA2-L	MTA4	MTA2	25	100,150,200	0.90/1.20/1.40
MTA4-MTA3-L		MTA3	32	120,170,220	1.20/1.40/1.80
MTA4-MTA4-L		MTA4	38	150,200,250	1.40/1.90/2.40
MTA5-MTA2-L	MTA5	MTA2	25	100,150,200	1.90/2.10/2.30
MTA5-MTA3-L		MTA3	32	120,150,200	2.10/2.40/2.60
MTA5-MTA4-L		MTA4	38	150,200,250	2.40/4.10/4.90
MTA5-MTA5-L		MTA5	55/63	180,200,250, 300	4.40/4.90/ 6.20/5.70

Unit: mm



Straight Shank

直柄莫氏錐度套筒



Model No.	D	L	Weight (kg)
C20 MTA1	20	60	0.15
MTA2	20	71	0.20
C25 MTA1	25	61	0.25
MTA2	25	70	0.30
C32 MTA1	32	61	0.40
MTA2	32	70	0.40
MTA3	32	90	0.40
C42 MTA1	42	94	1.10
MTA2	42	94	1.10
MTA3	42	90	0.90
MTA4	42	112	0.80

Unit: mm

Morse Taper Holder

莫氏錐度刀桿 -B 型

MTB

BT / NT
series

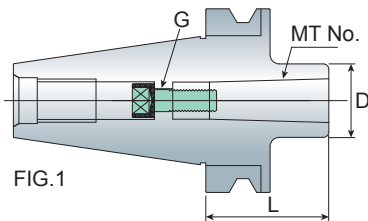


FIG.1

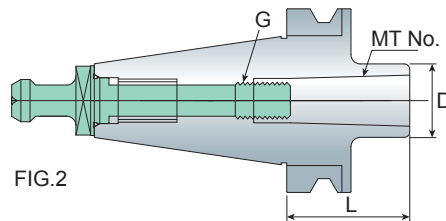
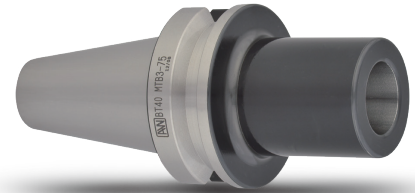


FIG.2



Stop screw / 止付螺絲

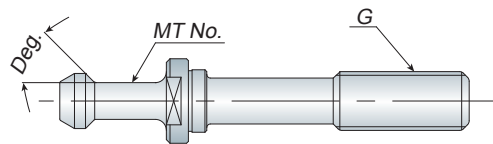
Model No.	FIG.	MT. No.	L	D	G	Capacity			Weight (kg)
						Drill	Reamer	End mill	
BT40 MTB1-045	1	MTB1	45	25	M6x1.0P	2~14	5~14	10~14	1.10
MTB2-045	1	MTB2	45	32	M10x1.5P	14~23	14.5~23	16~22	1.10
MTB3-075	1	MTB3	75	40	M12x1.75P	23~32	24~32	24~32	1.30
MTB4-075	2	MTB4	75	48	M16x2.0P	32~50	32~50	35~50	1.30
BT50 MTB1-045	1	MTB1	45	25	M6x1.0P	2~14	5~14	10~14	3.80
MTB2-045	1	MTB2	45	32	M10x1.5P	14~23	14.5~23	16~22	3.85
MTB3-060	1	MTB3	60	40	M12x1.75P	23~32	24~32	24~32	3.90
MTB4-075	1	MTB4	75	50	M16x2.0P	32~50	32~50	35~50	4.00
MTB5-120	2	MTB5	120	70	M20x2.5P	50~75	50	40~75	4.90

Unit: mm

- The tool holder for morse taper shank with internal draw bolt thread.
- MTB-FIG.1 type include 1pc stop screw.
- MTB-FIG.2 type should be fitted for extension pull stud.
- The extension pull stud must be ordered separately.
- MTB-FIG.1 刀桿均附 1 顆止付螺絲
- MTB-FIG.2 刀桿需配合 MTB 長拉頭使用
- MTB 長拉頭為另購品

Extension Pull Stud

長拉頭



Model No.	MT. No.	G	Deg.	Weight (kg)
MTB4 (M16)	MTB4	M16x2.0P	45/60/90	0.15
MTB5 (M20)	MTB5	M20x2.5P		0.45

Unit: mm

- When ordering, please specify the degree is 45, 60 or 90deg.
- 請於訂購時，確認拉頭度數

BT / NT
series

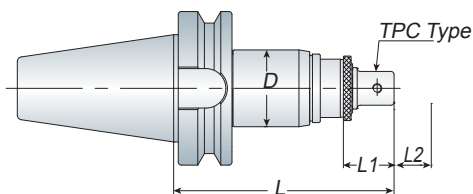
TPM



- L1: Compression, L2: Tension
- Quick change: Push back on the holder sleeve, and the tap collet is removable easily.

Tension & Compression Tap Holder

扭力伸縮攻牙本體



Model No.	D	L	L1	L2	Tapping Range	Collet Type	Weight (kg)
BT30 TPM316	48	140	10	20	M3~M16	TPC316	1.20
BT40 TPM316	48	140	10	20	M3~M16	TPC316	1.70
BT50 TPM316	48	150	10	20	M3~M16	TPC316	4.50
BT30 TPM830	66	190	10	25	M8~M30	TPC830	2.30
BT40 TPM830	66	180	10	25	M8~M30	TPC830	2.70
BT50 TPM830	66	180	10	25	M8~M30	TPC830	4.80
BT50 TPG830	75	265	10	80	M8~M30	TPC830	8.40

Unit: mm



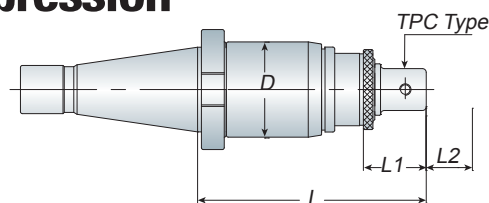
- L1: Compression, L2: Tension
- Quick change: Push back on the holder sleeve, and the tap collet is removable easily.
- When ordering, please specify the draw bolt with inch size or metric size.
- 請於訂購時，確認刀桿為英制或公制



P40-TPC Collet

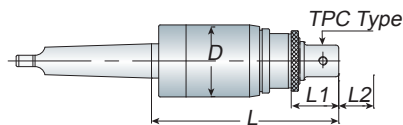
Tension & Compression Tap Holder

扭力伸縮攻牙本體



Model No.	D	L	L1	L2	Tapping Range	Collet Type	Draw Bolt	Weight (kg)
NT30 TPM316	48	140	10	20	M3~M16	TPC316	1/2"-12 M12x1.75P	1.30
NT40 TPM316	48	130	10	20	M3~M16	TPC316	5/8"-11 M16x2.0P	1.50
NT50 TPM316	48	125	10	20	M3~M16	TPC316	1"-8 M24x3.0P	3.40
NT30 TPM830	66	175	10	25	M8~M30	TPC830	1/2"-12 M12x1.75P	2.40
NT40 TPM830	66	175	10	25	M8~M30	TPC830	5/8"-11 M16x2.0P	2.70
NT50 TPM830	66	150	10	25	M8~M30	TPC830	1"-8 M24x3.0P	3.90
NT50 TPG830	75	240	10	80	M8~M30	TPC830	1"-8 M24x3.0P	7.40

Unit: mm



Morse Taper Shank

莫氏錐度扭力伸縮攻牙本體

Model No.	D	L	L1	L2	Tapping Range	Collet Type	Weight (kg)
MTA2 TPM316	48	130	10	20	M3~M16	TPC316	1.20
MTA3 TPM316	48	130	10	20	M3~M16	TPC316	1.30
MTA4 TPM316	48	130	10	20	M3~M16	TPC316	1.60
MTA5 TPM316	48	130	10	20	M3~M16	TPC316	2.50
MTA3 TPM830	66	160	10	25	M8~M30	TPC830	2.20
MTA4 TPM830	66	160	10	25	M8~M30	TPC830	2.60
MTA5 TPM830	66	160	10	25	M8~M30	TPC830	3.50

Unit: mm

TPM

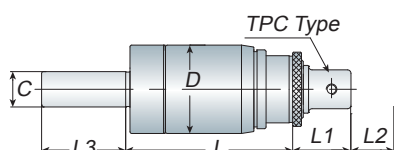
BT / NT
series



- L1: Compression, L2: Tension
- Quick change: Push back on the holder sleeve and the tap collet is removable easily.



- L1: Compression, L2: Tension
- Quick change: Push back on the holder sleeve and the tap collet is removable easily.

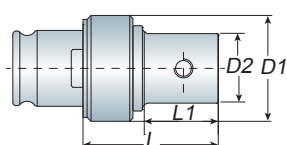
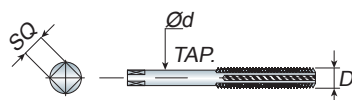


Straight Shank

直柄扭力伸縮攻牙本體

Model No.	C	D	L	L1	L2	L3	Tapping Range	Collet Type	Weight (kg)
C20 TPM316	20	48	130	10	20	65	M3~M16	TPC316	1.20
C25 TPM830	25	66	160	10	25	65	M8~M30	TPC830	2.10
C32 TPM830	32	66	160	10	25	65	M8~M30	TPC830	2.40

Unit: mm



Tap Collet

扭力絲攻筒夾

Model No.	Tap Diameter (D)	D1	D2	L1	L	Holder Type	Weight (kg)
TPC316	M3,M4,M5,M6,M8 M10,M12,M14,M16, W1/4,W1/8,W3/8, W3/16,W5/16,W7/16	33	20	27	47	TPM316	0.25
TPC316	W1/2,W5/8, PT1/8,PT1/4	33	25	27	47	TPM316	0.25
TPC830	M8,M10,M12,M14 M16,W5/16,W3/4 W7/16,W1/2,W5/8	51	30	43	62	TPM830	0.60
TPC830	M18,M20,M22,M24, M27,M30,W3/4,W7/8, W1,PT1/8,PT3/8,PT1/4, PT1/2,PT5/8,PT3/4	51	36	43	62	TPM830	0.60

Unit: mm

TPC



- When ordering, please advice shank diameter (Ød) and square size (SQ/□). For more detail info about shank diameter (Ød) and square size (SQ/□), please refer to P.41.
- 請於訂購時，確認絲攻筒夾的柄徑 (Ød) 和四角孔 (SQ/□)。更多詳細資料，請參考 P.41



- TPC tap collet have extended length (L1=100/150/200mm) to choice.
- TPC 絲攻筒夾另有加長型 (L1=100/150/200mm) 規格可供選購

Ann Way

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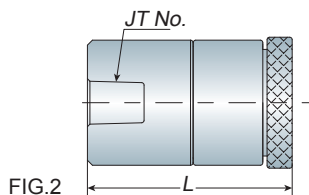
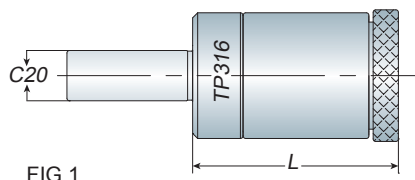


TPC316

JIS	Ød	□	ISO	Ød	□	DIN371	Ød	□	DIN376	Ød	□
TPC316 M03 W1/8	4	3.2	TPC316 M03	3.15	2.5	TPC316 M03	3.5	2.7	TPC316 M04	2.8	2.1
TPC316 M04	5	4	TPC316 M04	4	3.15	TPC316 M04	4.5	3.4	TPC316 M05	3.5	2.7
TPC316 M05 W3/16	5.5	4.5	TPC316 M05	5	4	TPC316 M05	6	4.9	TPC316 M06	4.5	3.4
TPC316 M06 W1/4	6	4.5	TPC316 M06	6.3	5	TPC316 M06	6	4.9	TPC316 M08	6	4.9
TPC316 M08	6.2	5	TPC316 M08	8	6.3	TPC316 M08	8	6.2	TPC316 M10	7	5.5
TPC316 M10 W3/8	7	5.5	TPC316 M10	10	8	TPC316 M10	10	8	TPC316 M12	9	7
TPC316 M12	8.5	6.5	TPC316 M12	9	7.1	Unit: mm			TPC316 M14	11	9
TPC316 M14	10.5	8	TPC316 M14	11.2	9				TPC316 M16	12	9
TPC316 M16	12.5	10	TPC316 M16	12.5	10				Unit: mm		
TPC316 W5/16	6.1	5	Unit: mm								
TPC316 W7/16 PT1/8	8	6									
TPC316 W1/2	9	7									
TPC316 W5/8	12	9									
TPC316 PT1/4	11	9									

TPC830

JIS	Ød	□	ISO	Ød	□	DIN371	Ød	□	DIN376	Ød	□
TPC830 M08	6.2	5	TPC830 M08	8	6.3	TPC830 M08	8	6.2	TPC830 M08	6	4.9
TPC830 M10 W3/8	7	5.5	TPC830 M10	10	8	TPC830 M10	10	8	TPC830 M10	7	5.5
TPC830 M12	8.5	6.5	TPC830 M12	9	7.1	Unit: mm			TPC830 M12	9	7
TPC830 M14	10.5	8	TPC830 M14	11.2	9				TPC830 M14	11	9
TPC830 M16	12.5	10	TPC830 M16	12.5	10				TPC830 M16	12	9
TPC830 M18 W3/4 PT3/8	14	11	TPC830 M18	14	11.2				TPC830 M18	14	11
TPC830 M20	15	12	TPC830 M20	14	11.2				TPC830 M20	16	12
TPC830 M22 W7/8	17	13	TPC830 M22	16	12.5				TPC830 M22	18	14.5
TPC830 M24	19	15	TPC830 M24	18	14				TPC830 M24	18	14.5
TPC830 M27 W1 PT5/8	20	15	TPC830 M27	20	16				TPC830 M27	20	16
TPC830 M30 PT3/4	23	17	TPC830 M30	20	16				TPC830 M30	22	18
TPC830 W5/16	6.1	5	TPC830 PT1/2	16	12				Unit: mm		
TPC830 W7/16 PT1/8	8	6	Unit: mm								
TPC830 W1/2	9	7									
TPC830 W5/8	12	9									
TPC830 PT1/4	11	9									
TPC830 PT1/2	18	14									

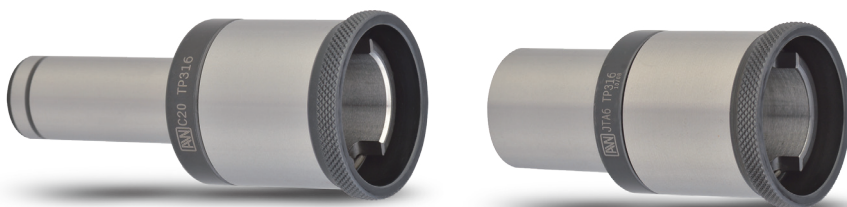


Tap Holder

簡式攻牙本體

TP

BT / NT
series



Model No.	FIG.	L	Tapping Range	Collet Type	Weight (kg)
C20 TP316	1	50	M3~M16	TPC316	0.40
JT2 TP316	2	75	M3~M16	TPC316	0.50
JT6 TP316	2	75	M3~M16	TPC316	0.40

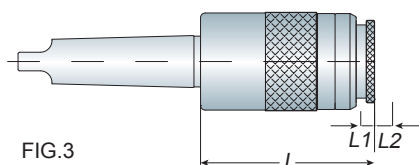
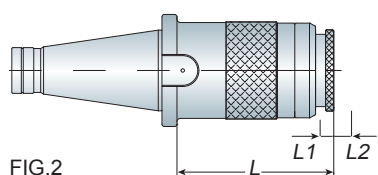
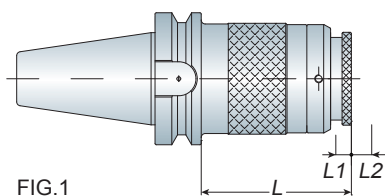
Unit: mm

- TP tap holder can be used to connect with end mill holder, milling chuck holder and JTA drill chuck holder.
- It is the simple tap holder without floating and also use TPC316 tap collet.
- 簡式攻牙本體可用於連結側固刀桿、強力銑刀夾頭刀桿和 JTA 夾頭刀桿做使用
- 簡式攻牙本體不具伸縮功能，僅可搭配 TPC316 筒夾做使用

Tension & Compression Tap Holder

伸縮攻牙本體

TPG



Model No.	FIG.	L	L1	L2	Tapping Range	Collet Type	Weight (kg)
BT50 TPG875	1	115	15	80	M8~M30	TPC830	7.30
NT50 TPG875	2	140	10	80	M32~M75	TPG875	7.30
MTA5 TPG875	3	161	15	80	M8~M30	TPC830	6.50
			15	80	M32~M75	TPG875	

Unit: mm



- The tapping range of TPG holder is from M8~M75. M8~M30 must be used with TPG875-TA830 adapter to switch TPC830 tap collet.
- Tapping range: M08~M30 - use with TPG875-TA830 adapter + TPC830 tap collet.
- Tapping range: M32~M75 - use with TPG875 tap collet.
- TPG875 伸縮攻牙本體，攻牙範圍為 M8~M75；M8~M30 需先連接 TPG875-TA830 轉接器作轉換並搭配 TPC830 絲攻筒夾使用
- 攻牙範圍 M08~M30: 使用 TPG875-TA830 轉接器 + TPC830 絲攻筒夾
- 攻牙範圍 M32~M75: 使用 TPG875 絲攻筒夾



P40-TPC830 Collet

P43-TPG875 Collet

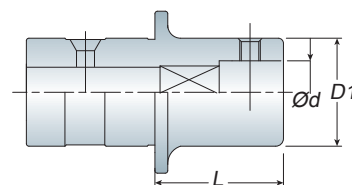
BT / NT
series

TPG



TPG875 Tap Collet

TPG875 絲攻筒夾



Model No.	Tap Diameter (D)	D1	L	Weight (kg)
TPG875-D	M32~M50	Ød+16mm	50	1.30
	PT1~PT1-1/2	Ød+16mm	50	1.30
	M52~M75	Ød+16mm	70	1.80
	PT1-1/4~PT2-1/2	Ød+16mm	70	1.80

Unit: mm

- Tap diameter which is not shown above, please advice shank diameter (Ød) and square size (SQ/ □) when ordering.
- 請於訂購時，確認絲攻筒夾之柄徑 (Ød) 和四角孔 (SQ/ □)

TPG875 Tap Collet Specification

TPG875 絲攻筒夾規格表

JIS	Ød	□	ISO	Ød	□	DIN376	Ød	□
TPG875 M32 W1-1/4 PT7/8	24	19	TPG875 M33	22.4	18	TPG875 M33	25	20
TPG875 M33	25	19	TPG875 M36	25	20	TPG875 M36	28	22
TPG875 M34 M35 W1-3/8 PT1	26	21	TPG875 M39 M42	28	22.4	TPG875 M39 M42	32	24
TPG875 M36 PT1-1/8	28	21	TPG875 M45 M48	31.5	25	TPG875 M45 M48	36	29
TPG875 M39 M40 W1-1/2	30	23	TPG875 M52	35.5	28	TPG875 M52	40	32
TPG875 M42 W1-5/8	32	26	Unit: mm		Unit: mm		Unit: mm	
TPG875 M45 M46 W1-3/4 PT1-3/8	35	26						
TPG875 M48 W1-7/8 PT1-1/2	38	29						
TPG875 M50 W2	40	32						
TPG875 M52 PT1-3/4	42	32						
TPG875 M56	44	35						
TPG875 M60 PT2	46	35						
TPG875 M64 W2-1/2	48	38						
TPG875 M65	50	38						
TPG875 M68	52	41						
TPG875 M70 M72	55	41						
TPG875 M75	58	46						

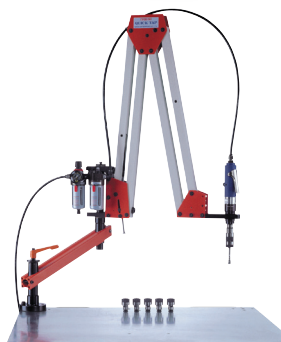
Unit: mm



TPG875-TA830 Adapter

TPG875-TA830 轉換器

- The adapter suits to switch TPG875 tap holder to clamp TPC830 tap collet.
- 此轉接器為裝配於 TPG875 本體上做轉換，使其可夾持 TPC830 絲攻筒夾



Vertical Air Tapping Machine

氣動攻牙機

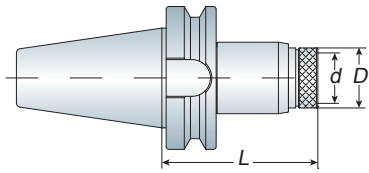
Model No.	AT-12 / II
For Tap / 攻牙能力	M3~M12
Speed (r.p.m.) / 主軸轉速	400
Work Range / 工作範圍	Min. 200mm ~ Max. 1900mm
Weight (kg) / 重量	20kg

Standard Accessories:

- Air tapping spindle
- Parallel arm
- Table mounting column
- Air unit
- Including 6pcs of ATC312 tap collet (FIG.1).
- Radial jib, increases arm reach by 500mm

標準配備：

- 氣動攻牙機主軸
- 伸長臂
- 固定座
- 三點組合
- 內含 6 個扭力絲攻筒夾
- 搖臂，可增強臂力至 500mm



Rigid Tap Holder

剛性攻牙本體

Model No.	d	D	L	Tapping Range	Collet Type	Weight (kg)
BT30 ART312	19	36	60	M3~M12	ATC312	0.60
BT40 ART312	19	36	65	M3~M12	ATC312	1.20
BT50 ART312	19	36	80	M3~M12	ATC312	4.00
BT40 ART822	31	53	85	M8~M22	ATC822	1.60
BT50 ART822	31	53	95	M8~M22	ATC822	4.40

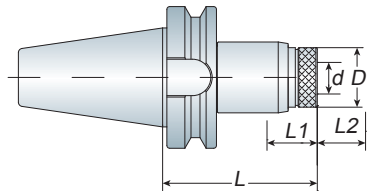
Unit: mm

ART

BT / NT
series



- ART tap holder is without floating.
- Tap collet is easy and quick to change
- Torque control type and positive drive type tap collets can be used for ART tap holder.
- ART 剛性攻牙本體不具伸縮功能
- 絲攻筒夾易更換
- 扭力絲攻筒夾及剛性絲攻筒夾皆適用



Tension & Compression Tap Holder

伸縮攻牙本體

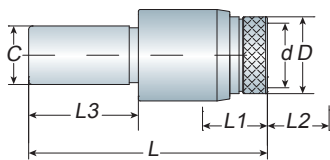
Model No.	d	D	L	L1	L2	Tapping Range	Collet Type	Weight (kg)
BT30 ATP312	19	36	70	6~10	6~10	M3~M12	ATC312	0.70
BT40 ATP312	19	36	75	6~10	6~10	M3~M12	ATC312	1.20
BT50 ATP312	19	36	85	6~10	6~10	M3~M12	ATC312	4.00
BT40 ATP822	31	53	110	6~10	6~10	M8~M22	ATC822	1.90
BT50 ATP822	31	53	105	6~10	6~10	M8~M22	ATC822	4.70

Unit: mm

ATP



- ATP tap holder is with tension and compression, so it can extend the tap lifetime.
- Torque control type and positive drive type tap collets can be used for ATP tool holder.
- ATP 伸縮攻牙本體具有伸縮功能，能延長絲攻使用壽命
- 扭力絲攻筒夾及剛性絲攻筒夾皆適用



Straight Shank

直柄伸縮攻牙本體

Model No.	C	d	D	L	L1	L2	L3	Tapping Range	Collet Type	Weight (kg)
C20 ATP312	20	19	36	155	6~10	6~10	65	M3~M12	ATC312	0.90
C25 ATP312	25	19	36	155	6~10	6~10	65	M3~M12	ATC312	1.00
C25 ATP822	25	31	53	185	6~10	6~10	70	M8~M22	ATC822	1.70
C32 ATP822	32	31	53	185	6~10	6~10	70	M8~M22	ATC822	1.90

Unit: mm



- ATP tap holder is with tension and compression, so it could extend the tap lifetime.
- Torque control type and positive drive type tap collets can be used for ATP tool holder.
- ATP 伸縮攻牙本體具有伸縮功能，能延長絲攻使用壽命
- 扭力絲攻筒夾及剛性絲攻筒夾皆適用



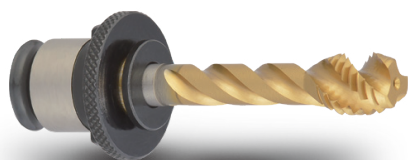
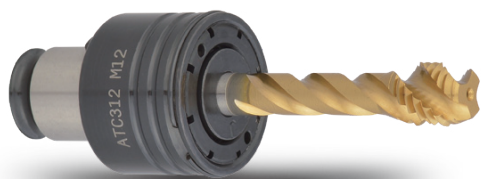
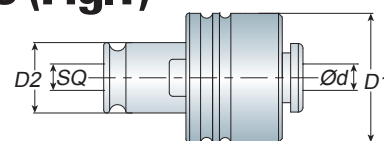
P45/46-ATC Collet

BT / NT
series

ATC

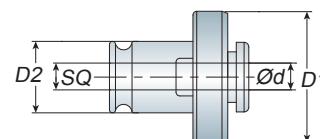
ATC312 Tap Collet Torque Control Type (Fig.1)

扭力絲攻筒夾 - FIG.1



Positive Drive Type (Fig.2)

剛性絲攻筒夾 - FIG.2



- When ordering, please specify the tap collet for torque control type (FIG.1) or positive drive type (FIG.2).
- Please also check the shank diameter (Ød) and square size (SQ/□).
- 請於訂購時，確認筒夾為扭力絲攻筒夾 (FIG.1) 或剛性絲攻筒夾 (FIG.2) 以及筒夾之柄徑 (Ød) 和四角孔 (SQ/□)

Model No.	Tap Diameter (D)	D1	D2	Weight (kg)
ATC312-D	M03,M04,M05, M06,M08,M10,M12,M14	32	19	0.30
	W1/8,W3/16,W1/4, W5/16,W3/8,W7/16	30	19	0.30

Unit: mm

For example:

ATC312	-	M03	-	JIS	
					Tap Type (絲攻種類)
					Tap Diameter-D (絲攻尺寸)
					Model No. (筒夾名稱)



- ATC tap collet has extended length L=100 for choice.
- ATC 絲攻筒夾另有加長型 L=100 可供選購

ATC312 Tap Collet Specification

ATC312 絲攻筒夾規格表

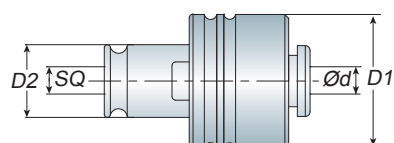
JIS	Ød	□	ISO	Ød	□	DIN371	Ød	□	DIN376	Ød	□
ATC312 M03 W1/8	4	3.2	ATC312 M03	3.15	2.5	ATC312 M03	3.5	2.7	ATC312 M04	2.8	2.1
ATC312 M04	5	4	ATC312 M04	4	3.15	ATC312 M04	4.5	3.4	ATC312 M05	3.5	2.7
ATC312 M05 W3/16	5.5	4.5	ATC312 M05	5	4	ATC312 M05 M06	6	4.9	ATC312 M06	4.5	3.4
ATC312 M06 W1/4	6	4.5	ATC312 M06	6.3	5	ATC312 M08	8	6.2	ATC312 M08	6	4.9
ATC312 M08	6.2	5	ATC312 M08	8	6.3	ATC312 M10	10	8	ATC312 M10	7	5.5
ATC312 M10 W3/8	7	5.5	ATC312 M10	10	8				ATC312 M12	9	7
ATC312 M12	8.5	6.5	ATC312 M12	9	7.1						
ATC312 M14	10.5	8									
ATC312 W7/16 PT1/8	8	6									
ATC312 W1/2	9	7									
ATC312 W5/16	6.1	5									

Unit: mm

Unit: mm

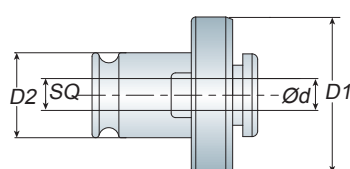
Unit: mm

ATC822 Tap Collet Torque Control Type (Fig.1)



扭力絲攻筒夾 - FIG.1

Positive Drive Type (Fig.2)



剛性絲攻筒夾 - FIG.2

Model No.	Tap Diameter (D)	D1	D2	Weight (kg)
ATC822-D	M08,M10,M12,M14, M16,M18,M20,M22	50	31	0.70
	W7/16,W1/2,W5/8, W3/4,W7/8,PT1/8, PT1/4,PT3/8	48	31	0.70

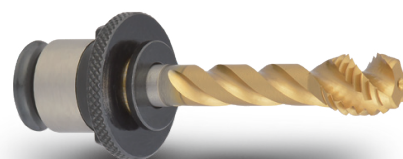
Unit: mm

For example:

ATC822	-	M08	-	JIS
Tap Type (絲攻種類)				
Tap Diameter-D (絲攻尺寸)				
Model No. (筒夾名稱)				

ATC

BT / NT series



- When ordering, please specify the tap collet for torque control type (FIG.1) or positive drive type (FIG.2).
- Please also check the shank diameter (Ød) and square size (SQ/ □).
- 請於訂購時，確認筒夾為扭力絲攻筒夾 (FIG.1) 或剛性絲攻筒夾 (FIG.2) 以及筒夾之柄徑 (Ød) 和四角孔 (SQ/ □)



- ATC tap collet has extended length L=100 for choice.
- ATC 絲攻筒夾另有加長型 L=100 可供選購

ATC822 Tap Collet Specification

ATC822 絲攻筒夾規格表

JIS	Ød	□	ISO	Ød	□	DIN371	Ød	□	DIN376	Ød	□
ATC822 M08	6.2	5	ATC822 M08	8	6.3	ATC822 M08	8	6.2	ATC822 M08	6	4.9
ATC822 M10 W3/8	7	5.5	ATC822 M10	10	8	ATC822 M10	10	8	ATC822 M10	7	5.5
ATC822 M12	8.5	6.5	ATC822 M12	9	7.1	Unit: mm			ATC822 M12	9	7
ATC822 M14	10.5	8	ATC822 M14	11.2	9				ATC822 M14	11	9
ATC822 M16	12.5	10	ATC822 M16	12.5	10	Unit: mm			ATC822 M16	12	9
ATC822 M18 W3/4 PT3/8	14	11	ATC822 M18 M20	14	11.2				ATC822 M18	14	11
ATC822 M20	15	12	ATC822 M22	16	12.5	Unit: mm			ATC822 M20	16	12
ATC822 M22 W7/8	17	13							ATC822 M22 M24	18	14.5
ATC822 W1/2	9	7							Unit: mm		
ATC822 W5/8	12	9									
ATC822 W5/16	6.1	5									
ATC822 PT1/2	18	14									
ATC822 PT1/4	11	9									
ATC822 W7/16 PT1/8	8	6									

Unit: mm

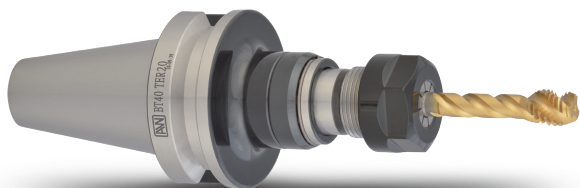
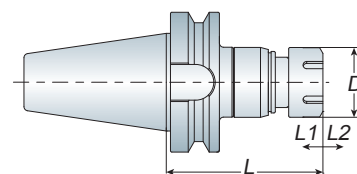
Unit: mm

BT / NT
series

TER

Tension & Compression Tap Holder

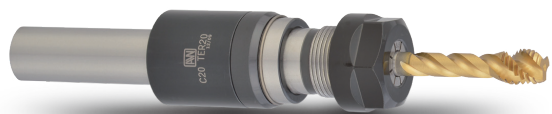
剛性伸縮攻牙本體



- TER tap holder uses the ER spring collet and easy to get.
- The nut could not be over tightening to avoid damaging the body and nut.
- Wrench must be ordered separately.
- TER 伸縮攻牙本體須搭配 ER 筒夾做使用
- 使用時，螺帽請勿過度鎖緊以免造成本體及螺帽損壞
- ER 扳手為另購品

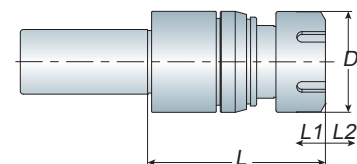
Model No.	D	L	L1	L2	Tapping Range	Collet Type	Weight (kg)
BT30 TER16	28	95	8	8	M3~M10	ER16	0.70
TER20	34	95	8	8	M3~M12	ER20	0.80
BT40 TER16	28	85	8	8	M3~M10	ER16	1.20
TER20	34	90	8	8	M3~M12	ER20	1.30
TER25	42	100	8	8	M4~M16	ER25	1.60
TER32	50	105	8	8	M4~M22	ER32	1.70
TER40	63	125	8	8	M6~M30	ER40	2.60
BT50 TER16	28	95	8	8	M3~M10	ER16	3.90
TER20	34	95	8	8	M3~M12	ER20	4.00
TER25	42	105	8	8	M4~M16	ER25	4.20
TER32	50	105	8	8	M4~M22	ER32	4.30
TER40	63	120	8	8	M6~M30	ER40	4.90

Unit: mm



Straight Shank

直柄剛性伸縮攻牙本體



- TER tap holder uses the ER spring collet and easy to get.
- The nut could not be over tightening to avoid damaging the body and nut.
- Straight shank tap holder also has flat shank type to choice. When ordering, please specify "FLAT".
- Wrench must be ordered separately.
- TER 伸縮攻牙本體須搭配 ER 筒夾做使用
- 使用時，螺帽請勿過度鎖緊以免造成本體及螺帽損壞
- 另有直柄削平面可供選購，請於訂購時註明 " 削平面 "
- ER 扳手為另購品

Model No.	D	L	L1	L2	Tapping Range	Collet Type	Weight (kg)
C20 TER16	28	75	5	12	M3~M10	ER16	0.40
TER20	34	80	5	12	M3~M12	ER20	0.50
TER25	42	80	5	12	M4~M16	ER25	0.80
C25 TER16	28	75	5	12	M3~M10	ER16	0.50
TER20	34	80	5	12	M3~M12	ER20	0.60
TER25	42	80	5	12	M4~M16	ER25	0.90
TER32	50	80	5	8	M4~M22	ER32	1.10
C32 TER16	28	75	5	12	M3~M10	ER16	0.70
TER20	34	80	5	12	M3~M12	ER20	0.80
TER25	42	80	5	12	M4~M16	ER25	1.00
TER32	50	80	5	8	M4~M22	ER32	1.20
C40 TER16	28	75	5	12	M3~M10	ER16	1.00
TER20	34	80	5	12	M3~M12	ER20	1.00
TER25	42	80	5	12	M4~M16	ER25	1.20
TER32	50	80	5	8	M4~M22	ER32	1.50

Unit: mm



P14- ER Nut

P11/12- ER Collet

P14- Wrench

DT24 / DT33 Drill Taper Set Consists:

- Taper holder (body) x1pc
- DT24 / DT33 JTA6 + 13H-JT6 x 1 set
- Tap sleeves x 2pcs
- Tap collets x 6pcs
- L type adjusting wrench x 1pc

Drill Taper Set

旋臂鑽床攻牙組

**DT
24 / 33****BT / NT**
series**DT24/DT33 旋臂鑽床攻牙組：**

- 旋臂攻牙本體 x 1pc
- DT24 / DT33 JTA6 + 13H-JT6 x 1 set
- 絲攻套筒 x 2pcs
- 絲攻筒夾 x 6pcs
- L 型調整扳手 x 1pc

**STANDARD SET - 標準組**

Model No.	Taper Holder	Standard Size	Weight (kg)
DT24 MTA2 - 10PCS/SET	DT24 MTA2 Holder	JTA6+13H-JT6	8.10
MTA3 - 10PCS/SET	MTA3 Holder	DT24-M4,M6,M8,M10	8.30
MTA4 - 10PCS/SET	MTA4 Holder	M12, M16	8.60
MTA5 - 10PCS/SET	MTA5 Holder	DT24-MT1,DT24-MT2	9.50
DT33 MTA3 - 10PCS/SET	DT33 MTA3 Holder	JTA6+13H-JT6	11.30
MTA4 - 10PCS/SET	MTA4 Holder	DT33-M8, M10,M12	11.70
MTA5 - 10PCS/SET	MTA5 Holder	M16,M20,M24	12.60
		DT33-MT2,DT33-MT3	

Unit: mm

Model No.	Weight (kg)	Model No.	Weight (kg)
DT24 MTA2 Holder	1.85	DT24-MT1	0.40
MTA3 Holder	1.95	-MT2	0.40
MTA4 Holder	2.30	-MT3	0.70
MTA5 Holder	3.20	DT33-MT1	0.60
DT33 MTA3 Holder	3.35	-MT2	0.70
MTA4 Holder	3.65	-MT3	0.70
MTA5 Holder	4.60	-MT4	0.70

Unit: mm

Unit: mm

**Taper Holder
Sleeve**旋臂攻牙本體
絲攻套筒

Model No.	Tap Collet	Weight (kg)
DT24	M4,M5,M6,M8,M10,M12,M14,M16,M18,M20,M22,M24 W3/16,W1/4,W5/16,W3/8,W7/16,W1/2,W5/8,W3/4,W7/8,W1 PT1/8,PT1/4,PT3/8,PT1/2	0.35
DT33	M8,M10,M12,M14,M16,M18,M20,M22,M24,M27,M30,M32,M33,M34,M36 W5/16,W3/8,W7/16,W1/2,W5/8,W3/4,W7/8,W1,W1-1/8,W1-1/4 PT1/8,PT1/4,PT3/8,PT1/2,PT3/4,PT1	0.60

Unit: mm

Tap Collet

絲攻筒夾

- DT24 / DT33 taper holder could be ordered with standard set or choice each size separately.
- The drill taper holder could be adjusted the torque with HIGH or LOW according to the tapped material.
- When ordering tap collet, please specify shank diameter (Ød) and square size (SQ/□).
- DT24 / DT33 攻牙組可選擇標準組整組訂購，也可依照需求分別購買
- DT24 / DT33 本體具有調整扭力功能，並可依照攻牙需求做扭力強 (H) 或弱 (L) 之調整
- 請於訂購時，確認絲攻筒夾之柄徑 (Ød) 和四角孔 (SQ/□)

JIS	Ød	□	ISO	Ød	□	DIN371	Ød	□	DIN376	Ød	□
DT24 M04	5	4	DT24 M04	4	3.15	DT24 M04	4.5	3.4	DT24 M04	2.8	2.1
DT24 M05 W3/16	5.5	4.5	DT24 M05	5	4	DT24 M05	6	4.9	DT24 M05	3.5	2.7
DT24 M06 W1/4	6	4.5	DT24 M06	6.3	5	DT24 M06	6	4.9	DT24 M06	4.5	3.4
DT24 M08	6.2	5	DT24 M08	8	6.3	DT24 M08	8	6.2	DT24 M08	6	4.9
DT24 M10 W3/8	7	5.5	DT24 M10	10	8	DT24 M10	10	8	DT24 M10	7	5.5
DT24 M12	8.5	6.5	DT24 M12	9	7.1	Unit: mm			DT24 M12	9	7
DT24 M14	10.5	8	DT24 M14	11.2	9				DT24 M14	11	9
DT24 M16	12.5	10	DT24 M16	12.5	10				DT24 M16	12	9
DT24 M18 W3/4 PT3/8	14	11	DT24 M18 M20	14	11.2				DT24 M18	14	11
DT24 M20	15	12	DT24 M22	16	12.5				DT24 M20	16	12
DT24 M22 W7/8	17	13	DT24 M24	18	14				DT24 M22	18	14.5
DT24 M24	19	15	Unit: mm						DT24 M24	18	14.5
DT24 W5/16	6.1	5							Unit: mm		
DT24 W7/16 PT1/8	8	6									
DT24 W1/2	9	7									
DT24 W5/8	12	9									
DT24 W1	20	15									
DT24 PT1/4	11	9									
DT24 PT1/2	18	14									

JIS	Ød	□	ISO	Ød	□	DIN371	Ød	□	DIN376	Ød	□
DT33 M06 W1/4	6	4.5	DT33 M08	8	6.3	DT33 M08	8	6.2	DT33 M08	6	4.9
DT33 M08	6.2	5	DT33 M10	10	8	DT33 M10	10	8	DT33 M10	7	5.5
DT33 M10 W3/8	7	5.5	DT33 M12	9	7.1	Unit: mm			DT33 M12	9	7
DT33 M12	8.5	6.5	DT33 M14	11.2	9				DT33 M14	11	9
DT33 M14	10.5	8	DT33 M16	12.5	10				DT33 M16	12	9
DT33 M16	12.5	10	DT33 M18 M20	14	11.2				DT33 M18	14	11
DT33 M18 W3/4 PT3/8	14	11	DT33 M22	16	12.5				DT33 M20	16	12
DT33 M20	15	12	DT33 M24	18	14				DT33 M22 M24	18	14.5
DT33 M22 W7/8	17	13	DT33 M27 M30	20	16				DT33 M27	20	16
DT33 M24	19	15	DT33 M33	22.4	18				DT33 M30	22	18
DT33 M27 W1 PT5/8	20	15	DT33 M36	25	20				DT33 M33	25	20
DT33 M30 PT3/4	23	17	Unit: mm						DT33 M36	28	22
DT33 M32 PT7/8 W1-1/4	24	19							Unit: mm		
DT33 M33	25	19									
DT33 M34 PT1 W1-3/8	26	21									
DT33 M36 PT1-1/8	28	21									
DT33 W5/16	6.1	5									
DT33 W7/16 PT1/8	8	6									
DT33 W1/2	9	7									
DT33 W5/8	12	9									
DT33 W1-1/8	22	17									
DT33 PT1/4	11	9									
DT33 PT1/2	18	14									

Drill Taper Series

旋臂鑽床攻牙系列

DT52

BT / NT series



	Model No.	Weight (kg)
Taper Holder	DT52 MTA5 Holder	7.00
Tap Collet	M24,M27,M30,M33,M36,M39,M42,M45,M48,M52	2.30
	W1,W1-1/8,W1-1/4,W1-3/8,W1-1/2,W1-5/8,W1-3/4,W1-7/8,W2	
Sleeve	DT52-MT2	2.20
	DT52-MT3	2.20
	DT52-MT4	2.20
	DT52-MT5	1.70

Unit: mm

- DT52 drill taper series is NOT sold with full set. The taper holder, collet and sleeve must be ordered separately.
- The drill taper holder could be adjusted the torque with HIGH or LOW according to the tapped material.
- When ordering tap collet, please specify shank diameter (Ød) and square size (SQ/ □).
- DT52 攻牙系列沒有提供整組的配套。本體、筒夾及套筒需依照需求分別購買
- DT52 本體具有調整扭力功能，並可依照攻牙需求做扭力強 (H) 或弱 (L) 之調整
- 請於訂購時，確認絲攻筒夾之柄徑 (Ød) 和四角孔 (SQ/ □)

Tap Collet Specification

絲攻筒夾規格表

DT52

JIS	Ød	□
DT52 M24 M25	19	15
DT52 M27 W1 PT5/8	20	15
DT52 M30 PT3/4	23	17
DT52 M32 W1-1/4 PT7/8	24	19
DT52 M33	25	19
DT52 M34 M35 W1-3/8 PT1	26	21
DT52 M36 PT1-1/8	28	21
DT52 M39 M40 W1-1/2	30	23
DT52 M42 W1-5/8	32	26
DT52 M45 M46 W1-3/4 PT1-3/8	35	26
DT52 M48 W1-7/8 PT1-1/2	38	29
DT52 M50 W2	40	32
DT52 M52	42	32
DT52 W1-1/8	22	17

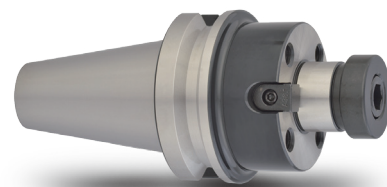
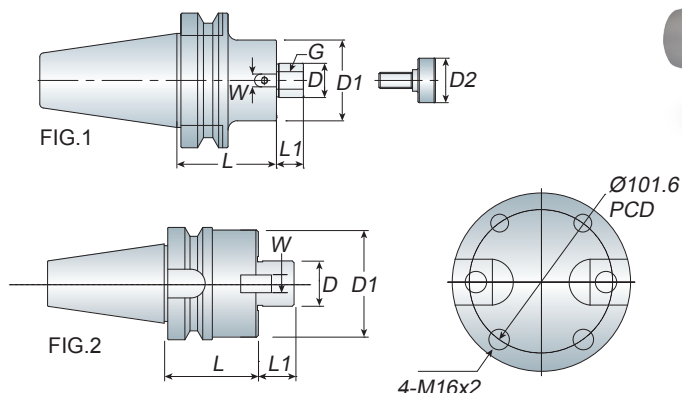
Unit: mm

ISO	Ød	□
DT52 M24	18	14
DT52 M27 M30	20	16
DT52 M33	22.4	18
DT52 M36	25	20
DT52 M39 M42	28	22.4
DT52 M45 M48	31.5	25
DT52 M52	35.5	28

Unit: mm

DIN376	Ød	□
DT52 M27	20	16
DT52 M30	22	18
DT52 M33	25	20
DT52 M36	28	22
DT52 M39 M42	32	24
DT52 M45 M48	36	29
DT52 M52	40	32

Unit: mm



Features

- Face mill holder equips with screw and drive keys to assemble the face mill cutter to the holder.
- Face mill cutter must be ordered separately.
- 每支 FMA 面銑刀桿均附有螺絲及擋耳以裝配面銑刀盤使用
- 面銑刀盤為另購品



Model No.	FIG.	D	D1	D2	L	L1	W	G	Weight (kg)
BT30 FMA25.4-045	1	25.4	45	33	45	20	9.5	M12	0.90
-060	1	25.4	45	33	60	20	9.5	M12	1.20
FMA31.75-045	1	31.75	58	40	45	22	12.7	M12	1.30
BT40 FMA25.4-045/060	1	25.4	60	33	45/60	20	9.5	M12	1.70/2.00
-090/105	1	25.4	60	33	90/105	20	9.5	M12	2.60/2.90
-125/150	1	25.4	60	33	125/150	20	9.5	M12	3.20/3.80
FMA31.75-045/060	1	31.75	70	40	45/60	22	12.7	M12	1.80/2.30
-090/105	1	31.75	70	40	90/105	22	12.7	M12	3.20/3.30
FMA38.1-045	1	38.1	85	50	45	23	15.9	M16	2.60
-060/090	1	38.1	85	50	60/90	23	15.9	M16	2.80/3.40
BT50 FMA25.4-045/075	1	25.4	60	33	45/75	20	9.5	M12	4.20/4.90
-045S/075S	1	25.4	48	33	45/75	20	9.5	M12	4.00/4.50
-105/125	1	25.4	60	33	105/125	20	9.5	M12	5.30/5.60
-105S/125S	1	25.4	48	33	105/125	20	9.5	M12	4.80/5.20
-150/200	1	25.4	60	33	150/200	20	9.5	M12	6.10/7.30
-150S/200S	1	25.4	48	33	150/200	20	9.5	M12	5.60/6.00
-250/300	1	25.4	60	33	250/300	20	9.5	M12	8.20/9.30
-250S/300S	1	25.4	48	33	250/300	20	9.5	M12	6.90/7.20
-350/400	1	25.4	60	33	350/400	20	9.5	M12	10.20/11.20
FMA31.75-045/075	1	31.75	70	40	45/75	22	12.7	M12	4.40/5.30
-105/125	1	31.75	70	40	105/125	22	12.7	M12	6.20/6.50
-150/200	1	31.75	70	40	150/200	22	12.7	M12	7.30/8.60
-250/300	1	31.75	70	40	250/300	22	12.7	M12	10.30/11.40
FMA38.1-045	1	38.1	85	50	45	23	15.9	M16	4.50
-075/105	1	38.1	85	50	75/105	23	15.9	M16	5.90/7.10
-125/150	1	38.1	85	50	125/150	23	15.9	M16	8.30/9.50
-175/200	1	38.1	85	50	175/200	23	15.9	M16	10.30/10.90
FMA50.8-045	1	50.8	95	65	45	24	19.05	M16	5.00
-075/105	1	50.8	95	65	75/105	24	19.05	M16	6.60/8.60
-150/200	1	50.8	95	65	150/200	24	19.05	M16	11.20/13.40
FMA47.625-075	2	47.625	128.57	-	75	32	25.4	-	8.30
-105/200	2	47.625	128.57	-	105/200	32	25.4	-	10.30/15.00

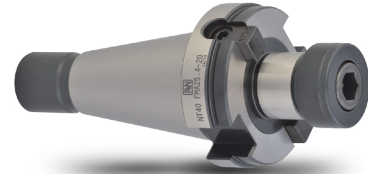
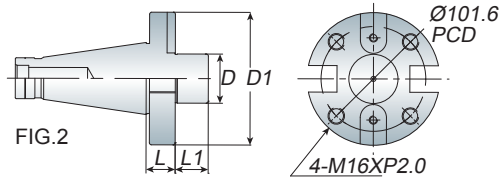
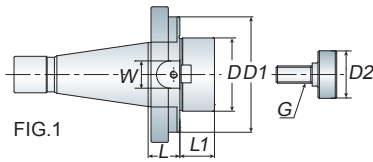
Unit: mm

Face Mill Holder - Inch

平面銑刀桿

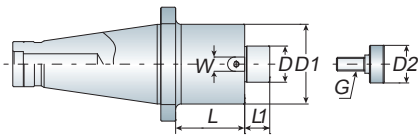
FMA

BT / NT
series



Model No.	FIG.	D	D1	D2	L	L1	W	G	Draw Bolt	Weight (kg)
NT30 FMA25.4-020	1	25.4	65	33	20	20	9.5	M12		0.80
FMA31.75-020	1	31.75	73	40	20	22	12.7	M12	1/2"-12 M12x1.75P	0.90
FMA38.1-020	1	38.1	82	50	20	23	15.9	M16		1.20
NT40 FMA25.4-020	1	25.4	65	33	20	20	9.5	M12		1.40
FMA31.75-020	1	31.75	73	40	20	22	12.7	M12		1.50
FMA38.1-020	1	38.1	82	50	20	23	15.9	M16	5/8"-11 M16x2.0P	2.10
FMA50.8-020	1	50.8	95	65	20	24	19.05	M16		2.50
FMA47.625-020	2	47.625	128.57	-	20	32	25.4	-		3.90
NT50 FMA25.4-020	1	25.4	65	33	20	20	9.5	M12		3.30
FMA31.75-020	1	31.75	73	40	20	22	12.7	M12		3.30
FMA38.1-020	1	38.1	82	50	20	23	15.9	M16	1"-8 M24x3.0P	3.60
FMA50.8-020	1	50.8	95	65	20	24	19.05	M16		4.20
FMA47.625-024	2	47.625	128.57	-	24	32	25.4	-		5.30

Unit: mm

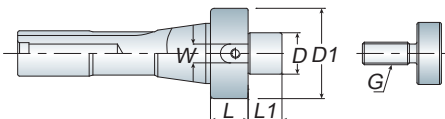


Long Type

加長型

Model No.	D	D1	D2	L	L1	W	G	Draw Bolt
NT40 FMA25.4-L	25.4	60	33		20	9.5	M12	
FMA31.75-L	31.75	70	40	50/75	22	12.7	M12	5/8"-11 M16x2.0P
FMA38.1-L	38.1	85	50	100	23	15.9	M16	
FMA50.8-L	50.8	95	65		24	19.05	M16	
NT50 FMA25.4-L	25.4	60	33		20	9.5	M12	
FMA31.75-L	31.75	70	40	50/75	22	12.7	M12	
FMA38.1-L	38.1	85	50	100/125 150/200	23	15.9	M16	1"-8 M24x3.0P
FMA50.8-L	50.8	95	65	300	24	19.05	M16	
FMA47.625-L	47.625	128.57	-		32	25.4	-	

Unit: mm



R8 Taper Shank

R8 平面銑刀桿

Model No.	D	D1	L	L1	W	G	Weight (kg)
R8 FMA25.4-020	25.4	48	20	20	9.5	M12	0.90
FMA31.75-020	31.75	54	20	22	12.7	M12	1.40

Unit: mm

- Face mill holder equips with screw and drive keys to assemble the face mill cutter to the holder.
- When ordering, please specify the draw bolt with inch size or metric size.
- Face mill cutter must be ordered separately.
- 每支 FMA 面銑刀桿均附有螺絲及擋耳以裝配面銑刀盤使用
- 請於訂購時，確認刀桿為英制或公制
- 面銑刀盤為另購品



- Face mill holder equips with screw and drive keys to assemble the face mill cutter to the holder.
- Face mill cutter must be ordered separately.



- 每支 FMA 面銑刀桿均附有螺絲及擋耳以裝配面銑刀盤使用
- 面銑刀盤為另購品

Ann Way

52



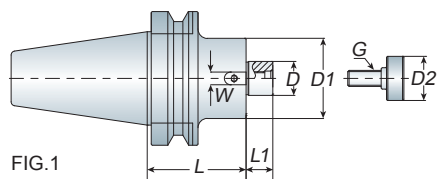


FIG.1

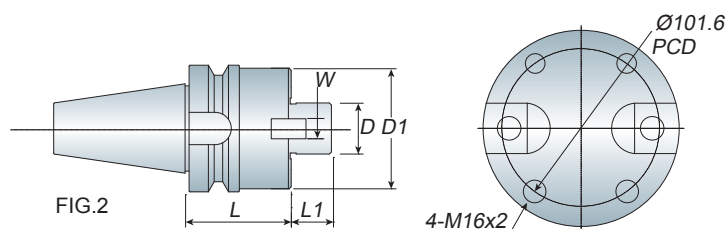


FIG.2



Features

- Face mill holder equips with screw and drive keys to assemble the face mill cutter to the holder.
- Face mill cutter must be ordered separately.
- 每支 FMB 面銑刀桿均附有螺絲及擋耳以裝配面銑刀盤使用
- 面銑刀盤為另購品



P174/175
Face Mill Cutter

Model No.	FIG.	D	D1	D2	L	L1	W	G	Weight (kg)
BT30 FMB22-045	1	22	56	-	45	18	10	M10	0.80
FMB27-045	1	27	64	32	45	20	12	M12	1.00
BT40 FMB16-045	1	16	38	-	45	17	10	M8	1.3
FMB22-045	1	22	48	-	45	18	10	M10	1.40
-060/090	1	22	48	-	60/90	18	10	M10	1.60/2.10
-105/125	1	22	48	-	105/125	18	10	M10	2.40/2.60
-150/200	1	22	48	-	150/200	18	10	M10	2.80/3.50
FMB27-045	1	27	60	32	45	20	12	M12	1.70
-060	1	27	60	32	60	20	12	M12	2.00
-090/105	1	27	60	32	90/105	20	12	M12	2.60/3.00
FMB32-045	1	32	63	41	45	21	14	M16	1.80
-060	1	32	63	41	60	21	14	M16	2.10
-090/105	1	32	63	41	90/105	21	14	M16	3.00/3.30
FMB40-045	1	40	68	47	45	23	16	M16	2.00
-060	1	40	68	47	60	23	16	M16	2.70
BT50 FMB16-045	1	16	38	-	45	17	10	M8	3.8
FMB22-045	1	22	48	-	45	18	10	M10	4.00
-075/105	1	22	48	-	75/105	18	10	M10	4.50/4.80
-125/150	1	22	48	-	125/150	18	10	M10	5.20/5.60
-175/200	1	22	48	-	175/200	18	10	M10	6.00/6.30
-250/300	1	22	48	-	250/300	18	10	M10	6.90/7.20
-350/400	1	22	48	-	350/400	18	10	M10	7.70/8.30
FMB27-045	1	27	65	32	45	20	12	M12	4.30
-075	1	27	65	32	75	20	12	M12	5.00
-090/105	1	27	65	32	90/105	20	12	M12	5.40/5.80
-150/200	1	27	65	32	150/200	20	12	M12	7.20/8.90
FMB32-045	1	32	73	41	45	21	14	M16	4.40
-075/105	1	32	73	41	75/105	21	14	M16	5.40/6.60
-150/200	1	32	73	41	150/200	21	14	M16	8.00/9.70
FMB40-045	1	40	85	47	45	23	16	M16	4.60
-075	1	40	85	47	75	23	16	M16	5.90
-105/150	1	40	85	47	105/150	23	16	M16	6.90/8.60
FMB60-075	2	60	128.57	-	75	32	25.4	-	7.30

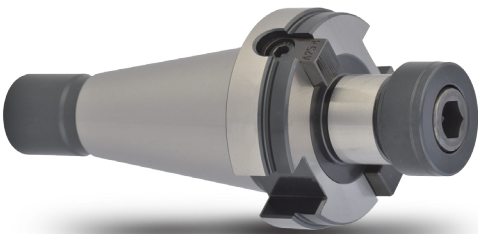
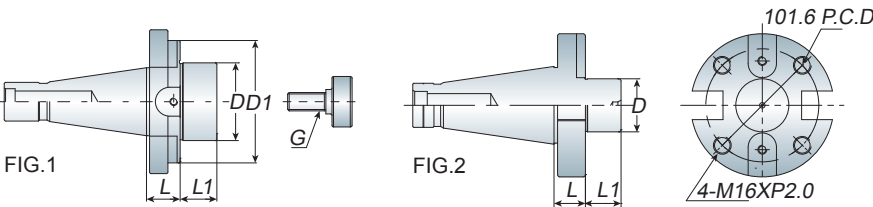
Unit: mm

Face Mill Holder - Metric

平面銑刀桿

FMB

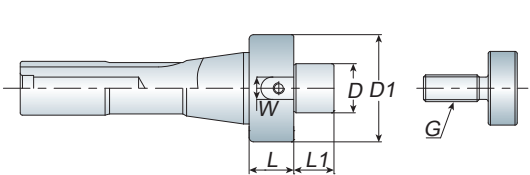
BT / NT
series



Model No.	FIG.	D	D1	L	L1	G	Draw Bolt	Weight (kg)
NT30 FMB22-020	1	22	53	20	18	M10	1/2"-12 M12x1.75P	0.60
FMB27-020	1	27	54	20	20	M12		0.80
FMB32-020	1	32	59	20	21	M16		1.00
NT40 FMB22-020	1	22	60	20	18	M10	5/8"-11 M16x2.0P	1.20
FMB27-020	1	27	58	20	20	M12		1.40
FMB32-020	1	32	69	20	21	M16		1.40
FMB40-020	1	40	80	20	24	M16		1.80
FMB60-024	2	60	128	24	32	-		4.00
NT50 FMB22-020	1	22	40	20	18	M10	1"-8 M24x3.0P	3.10
FMB27-020	1	27	70	20	20	M12		3.30
FMB32-020	1	32	76	20	21	M16		3.40
FMB40-020	1	40	88	20	24	M16		3.70
FMB60-024	2	60	128	24	32	-		5.50

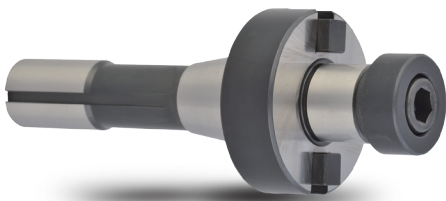
Unit: mm

- Face mill holder equips with screw and drive keys to assemble the face mill cutter to the holder.
- When ordering, please specify the draw bolt with inch size or metric size.
- Face mill cutter must be ordered separately.
- 每支 FMB 面銑刀桿均附有螺絲及擋耳以裝配面銑刀盤使用
- 請於訂購時，確認刀桿為英制或公制
- 面銑刀盤為另購品



R8 Taper Shank

R8 平面銑刀桿



Model No.	D	D1	L	L1	W	G	Weight (kg)
R8 FMB22-020	22	48	20	18	10	M10	0.80
FMB27-020	27	54	20	20	12	M12	1.00

Unit: mm

- Face mill holder equips with screw and drive keys to assemble the face mill cutter to the holder.
- Face mill cutter must be ordered separately.
- 每支 FMB 面銑刀桿均附有螺絲及擋耳以裝配面銑刀盤使用
- 面銑刀盤為另購品

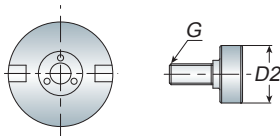
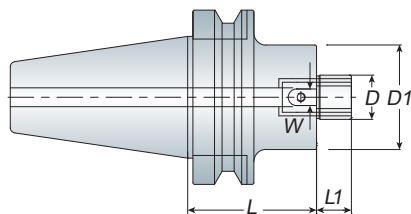


BT / NT
series

FMH

Face Mill Holder - Coolant Type

平面銑刀桿 - 出水型



Features

- Face mill holder equips with screw and drive keys to assemble the face mill cutter to the holder.
- Face mill cutter must be ordered separately.
- FMH is produced by order.
- 每支 FMH 面銑刀桿均附有螺絲及擋耳以裝配面銑刀盤使用
- 面銑刀盤為另購品
- FMH 為訂單生產品

Model No.	D	D1	D2	L	L1	W	G	Weight (kg)
BT30 FMH25.4-045	25.4	45	33	45	20	9.5	M12	0.90
-060	25.4	45	33	60	20	9.5	M12	1.20
FMH31.75-045	31.75	58	40	45	22	12.7	M12	1.30
FMH22-045	22	48	-	45	18	10	M10	0.80
FMH27-045	27	60	32	45	20	12	M12	1.00
BT40 FMH25.4-045	25.4	60	33	45	20	9.5	M12	1.70
-060	25.4	60	33	60	20	9.5	M12	2.00
FMH31.75-045	31.75	70	40	45	22	12.7	M12	2.30
-060	31.75	70	40	60	22	12.7	M12	2.60
FMH38.1-060	38.1	85	50	60	23	15.9	M16	2.80
FMH16-045	16	38	-	45	17	10	M8	1.30
FMH22-045	22	48	-	45	18	10	M10	1.40
-060	22	48	-	60	18	10	M10	1.60
FMH27-045	27	60	32	45	20	12	M12	1.70
-060	27	60	32	60	20	12	M12	2.00
FMH32-045	32	63	41	45	21	14	M16	1.80
-060	32	63	41	60	21	14	M16	2.10
BT50 FMH25.4-045	25.4	60	33	45	20	9.5	M12	4.20
-075/105/150	25.4	60	33	75/105/150	20	9.5	M12	4.90/5.30/6.10
FMH31.75-045	31.75	70	40	45	22	12.7	M12	4.40
-075/105/150	31.75	70	40	75/105/150	22	12.7	M12	5.30/6.20/7.30
FMH38.1-045	38.1	85	50	45	23	15.9	M16	4.50
-075/105/150	38.1	85	50	75/105/150	23	15.9	M16	5.90/7.10/9.50
FMH16-045	16	38	-	45	17	10	M8	3.80
FMH22-045	22	48	-	45	18	10	M10	4.00
-075/105/150	22	48	-	75/105/150	18	10	M10	4.50/4.80/5.60
FMH27-045	27	65	32	45	20	12	M12	4.30
-075/105/150	27	65	32	75/105/150	20	12	M12	5.00/5.80/7.20
FMH32-045	32	73	41	45	21	14	M16	4.40
-075/105/150	32	73	41	75/105/150	21	14	M16	5.40/6.60/9.70
FMH40-045	40	85	47	45	23	16	M16	4.60
-075/105	40	85	47	75/105	23	16	M16	5.90/6.90

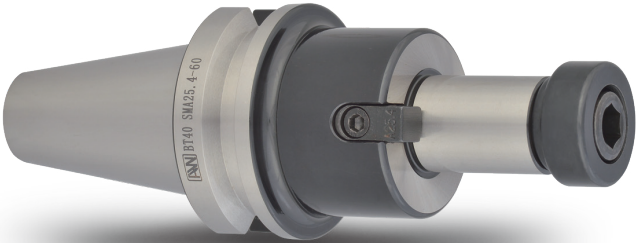
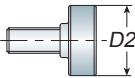
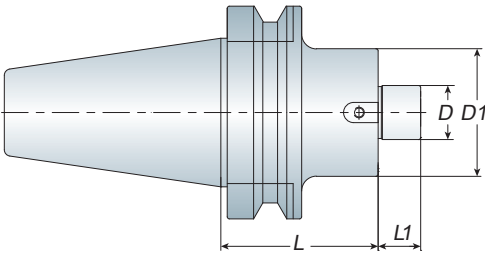
Unit: mm

Shell Mill Holder

殼型銑刀桿

SMA

BT / NT
series



Features

- Shell mill holder equips with screw and drive keys to assemble the mill cutter to the holder.
- When ordering, please specify the D size.
- 每支 SMA 殼型銑刀桿均附有螺絲及擋耳以裝配銑刀盤使用
- 請於訂購時，確認 D 規格

Model No.	D	D1	D2	L	L1	Weight (kg)
BT30 SMA15.875/16-045	15.875/16	34	20	45	17	0.70
SMA22.225/22-045	22.225/22	42	28	45	27	0.80
SMA25.4/27-045	25.4/27	50	33	45	36	1.00
-060	25.4/27	50	33	60	36	1.30
BT40 SMA15.875/16-060	15.875/16	34	20	60	17	1.30
-120	15.875/16	34	20	120	17	1.90
SMA22.225/22-060	22.225/22	42	28	60	27	1.50
-120	22.225/22	42	28	120	27	2.10
-180	22.225/22	42	28	180	27	2.80
SMA25.4/27-045	25.4/27	50	33	45	36	1.60
-060	25.4/27	50	33	60	36	1.80
-105	25.4/27	50	33	105	36	2.60
-150	25.4/27	50	33	150	36	3.20
SMA31.75/32-045	31.75/32	60	40	45	38	1.90
-060	31.75/32	60	40	60	38	2.10
-090	31.75/32	60	40	90	38	2.70
SMA38.1/40-060	38.1/40	80	50	60	38	2.60
-090	38.1/40	80	50	90	38	3.20
BT50 SMA15.875/16-075	15.875/16	34	20	75	17	4.00
-120	15.875/16	34	20	120	17	4.60
SMA22.225/22-075	22.225/22	42	28	75	27	4.30
-120	22.225/22	42	28	120	27	5.00
-180	22.225/22	42	28	180	27	5.50
SMA25.4/27-045	25.4/27	50	33	45	36	4.30
-075	25.4/27	50	33	75	36	4.70
-105	25.4/27	50	33	105	36	5.20
-150	25.4/27	50	33	150	36	6.00
SMA31.75/32-045	31.75/32	60	40	45	38	4.50
-075	31.75/32	60	40	75	38	5.10
-105	31.75/32	60	40	105	38	5.50
SMA38.1/40-045	38.1/40	80	50	45	38	4.50
-075	38.1/40	80	50	75	38	5.60

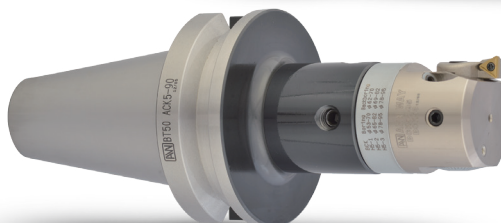
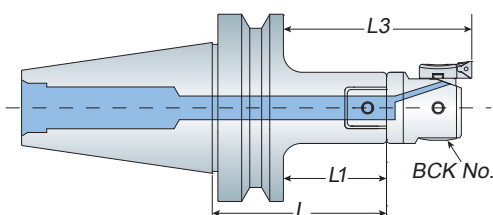
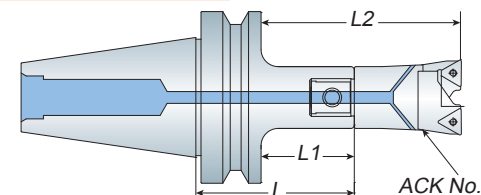
Unit: mm

BT / NT
series

ACK
BCK

Adjustable Balance Cutter Tool Holder

搪孔刀桿



Features

- ACK19 ~ ACK90 boring range is from 19mm ~ 122mm.
- BCK20 ~ BCK100 boring range is from 20mm ~ 203mm.
- The ACK holder is coolant type and both for rough and fine boring system.
- Rough boring uses the ACK cutter no. ; Fine boring uses the BCK cutter no.
- The cutter and insert must be ordered separately.
- ACK19 ~ ACK90 其搪孔範圍為：19mm ~ 122mm
- BCK20 ~ BCK100 其搪孔範圍為：20mm ~ 203mm
- 標準刀桿皆有中心出水功能，且為粗搪、精搪共通刀桿
- 粗搪加工配合 ACK 粗搪頭；精搪加工配合 BCK 精搪頭
- 搪頭和刀片為另購品

Model No.	L	L1	Adapter	ACK Cutter No.	L2	BCK Cutter No.	L3	Weight (kg)
BT40 ACK1-060	60	35	ACK1	ACK19	73	BCK20	67.5	1.10
-080	80	55	ACK1	ACK19	93	BCK20	87.5	1.20
ACK2-060	60	35	ACK2	ACK25	80	BCK25	70.5	1.20
-080	80	55	ACK2	ACK25	100	BCK25	90.5	1.20
-100	100	75	ACK2	ACK25	120	BCK25	110.5	1.30
-120	120	95	ACK2	ACK25	140	BCK25	130.5	1.40
ACK3-060	60	35	ACK3	ACK32	85	BCK32	75	1.20
-080	80	55	ACK3	ACK32	105	BCK32	95	1.20
-100	100	75	ACK3	ACK32	125	BCK32	115	1.30
-120	120	95	ACK3	ACK32	145	BCK32	135	1.50
ACK4-080	80	55	ACK4	ACK40	120	BCK41	102	1.40
-100	100	75	ACK4	ACK40	140	BCK41	122	1.60
-125	125	100	ACK4	ACK40	165	BCK41	147	1.80
ACK5-080	80	55	ACK5	ACK52	125	BCK53	112	1.60
-100	100	75	ACK5	ACK52	145	BCK53	132	2.00
-135	135	110	ACK5	ACK52	180	BCK53	167	2.50
ACK6-055	55	30	ACK6	ACK68/ACK90	110/120	BCK68/BCK100	101/101	1.40
BT50 ACK1-100	100	65	ACK1	ACK19	103	BCK20	97.5	3.90
-125	125	90	ACK1	ACK19	128	BCK20	122.5	4.10
ACK2-090	90	55	ACK2	ACK25	100	BCK25	90.5	4.00
-125	125	90	ACK2	ACK25	135	BCK25	125.5	4.10
ACK3-090	90	55	ACK3	ACK32	105	BCK32	95	4.00
-125	125	90	ACK3	ACK32	140	BCK32	130	4.30
ACK4-115	115	80	ACK4	ACK40	155	BCK41	137	4.40
-175	175	140	ACK4	ACK40	205	BCK41	187	5.00
ACK5-090	90	55	ACK5	ACK52	125	BCK53	112	4.20
-135	135	100	ACK5	ACK52	150	BCK53	137	5.20
-195	195	160	ACK5	ACK52	230	BCK53	217	6.10
ACK6-110	110	75	ACK6	ACK68/ACK90	155/165	BCK68/BCK100	146/146	4.90
-170	170	135	ACK6	ACK68/ACK90	215/225	BCK68/BCK100	206/206	6.10
-215	215	180	ACK6	ACK68/ACK90	260/270	BCK68/BCK100	251/251	7.50
-255	255	220	ACK6	ACK68/ACK90	300/310	BCK68/BCK100	291/291	9.00
-300	300	265	ACK6	ACK68/ACK90	345/355	BCK68/BCK100	336/336	9.60
-350	350	315	ACK6	ACK68/ACK90	395/405	BCK68/BCK100	386/386	11.50

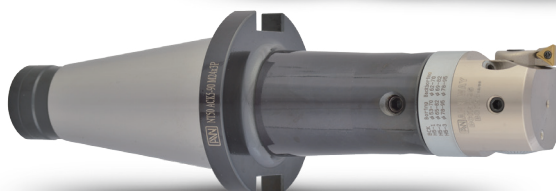
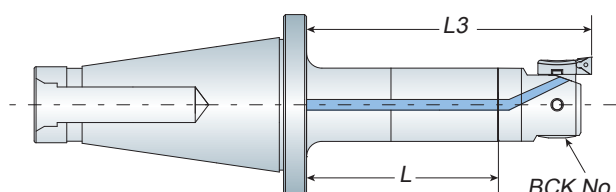
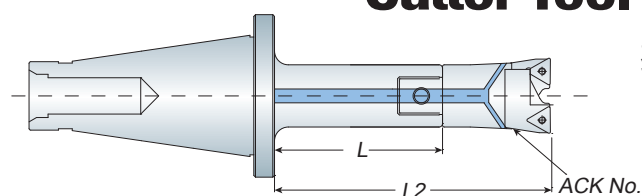


Adjustable Balance Cutter Tool Holder

搪孔刀桿

ACK BCK

BT / NT series



Features

- When ordering, please specify the draw bolt with inch size or metric size.
- ACK19 ~ ACK90 boring range is from 19mm ~ 122mm.
- BCK20 ~ BCK100 boring range is from 20mm ~ 203mm.
- The ACK holder is coolant type and both for rough and fine boring system.
- Rough boring uses the ACK cutter no. ; Fine boring uses the BCK cutter no.
- The cutter and insert must be ordered separately.
- 請於訂購時，確認刀桿為英制或公制
- ACK19 ~ ACK90 其搪孔範圍為：19mm ~ 122mm
- BCK20 ~ BCK100 其搪孔範圍為：20mm ~ 203mm
- 標準刀桿皆有中心出水功能，且為粗搪、精搪共通刀桿
- 粗搪加工配合 ACK 粗搪頭；精搪加工配合 BCK 精搪頭
- 搪頭和刀片為另購品

Model No.	L	Adapter	ACK Cutter No.	L2	BCK Cutter No.	L3	Draw Bolt	Weight (kg)
NT40 ACK1-060	60	ACK1	ACK19	98	BCK20	92.5	5/8"-11 M16x2.0P	0.80
-80	80	ACK1	ACK19	118	BCK20	112.5		1.00
ACK2-060	60	ACK2	ACK25	105	BCK25	95.5		1.00
-80	80	ACK2	ACK25	125	BCK25	115.5		1.10
-100	100	ACK2	ACK25	145	BCK25	135.5		1.20
-120	120	ACK2	ACK25	165	BCK25	155.5		1.30
ACK3-060	60	ACK3	ACK32	110	BCK32	100		1.10
-80	80	ACK3	ACK32	130	BCK32	120		1.30
-100	100	ACK3	ACK32	150	BCK32	140		1.40
-120	120	ACK3	ACK32	170	BCK32	160		1.50
ACK4-080	80	ACK4	ACK40	145	BCK41	127		1.50
-100	100	ACK4	ACK40	165	BCK41	147		1.70
-125	125	ACK4	ACK40	190	BCK41	172		1.90
ACK5-080	80	ACK5	ACK52	150	BCK53	137	1"-8 M24x3.0P	2.00
-100	100	ACK5	ACK52	170	BCK53	157		2.40
-135	135	ACK5	ACK52	205	BCK53	192		2.80
ACK6-055	55	ACK6	ACK68/ACK90	135/145	BCK68/BCK100	126/126		1.60
NT50 ACK2-090	90	ACK2	ACK25	135	BCK25	125.5		3.30
-125	125	ACK2	ACK25	170	BCK25	160.5		4.00
ACK3-090	90	ACK3	ACK32	140	BCK32	130		3.40
-125	125	ACK3	ACK32	175	BCK32	165		4.00
ACK4-115	115	ACK4	ACK40	180	BCK41	162		3.60
-175	175	ACK4	ACK40	240	BCK41	222		4.20
ACK5-090	90	ACK5	ACK52	160	BCK53	147		3.90
-135	135	ACK5	ACK52	205	BCK53	192		4.50
-195	195	ACK5	ACK52	265	BCK53	252		5.40
ACK6-110	110	ACK6	ACK68/ACK90	190/200	BCK68/BCK100	181/181		4.40
-170	170	ACK6	ACK68/ACK90	250/260	BCK68/BCK100	241/241		5.70
-215	215	ACK6	ACK68/ACK90	295/305	BCK68/BCK100	286/286		7.20
-255	255	ACK6	ACK68/ACK90	335/345	BCK68/BCK100	326/326		7.60

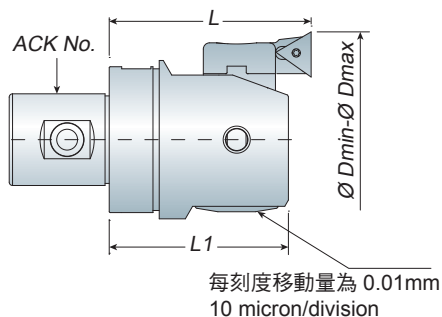
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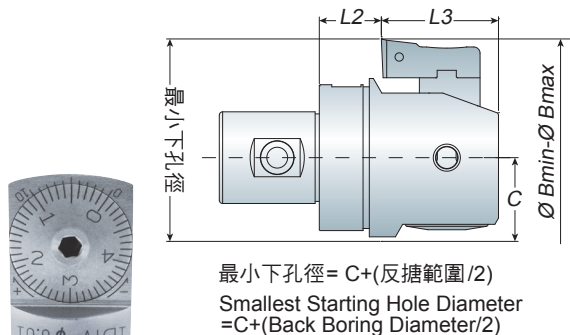
P59-BCK Cutter

P62-ACK Cutter

正搪範圍示意圖 (Boring)



反搪範圍示意圖 (Back Boring)



Features

- Design of pre-balancing makes good cutting accuracy. Boring range is from 20mm ~ 203mm.
- The micro boring head is coolant type and both for boring and back boring.
- The insert holder is with three types for you to choice.
- Each micro boring head is included 1pc insert holder BCK H#-1, ex. H1-1, H2-1, H3-1.... Other sizes are optional accessories.
- Insert must be ordered separately.
- 預先動平衡設計，可以穩定加工精度。加工範圍 Ø20 ~ Ø203
- 標準搪頭皆有中心出水功能，搪頭可正、反搪，有三種刀座搪孔範圍可供選擇
- 每只精搪頭，皆包含 1 只標準刀片座 (BCK H#-1) 在內，例：H1-1, H2-1, H3-1...。其餘尺寸之刀片座需另購
- 刀片為另購品

Model No.	ACK No.	刀片座 Insert Holder	正搪範圍 Boring ØD			反搪範圍 Back Boring ØB				Weight (kg)	刀片 Insert
			Range	L	L1	Range	L2	L3	C		
BCK20	1	BCK H1-1	20~26			-				0.07	TP..0802
		BCK H1-2	25~31	32.5	29.5	30~31	10.5	19	10		
		BCK H1-3	30~36			30~36					
BCK25	2	BCK H2-1	25~33			-				0.12	TP..0802
		BCK H2-2	32~40	35.5	32.5	36~40	11.5	21	12.5		
		BCK H2-3	39~47			39~47					
BCK32	3	BCK H3-1	32~42			-				0.21	TP..0802
		BCK H3-2	41~51	40	35	46~51	10	25	16		
		BCK H3-3	50~60			50~60					
BCK41	4	BCK H4-1	41~54			-				0.40	TC..1102
		BCK H4-2	50~63	47	43	53~63	14	29	20		
		BCK H4-3	61~74			61~74					
BCK53	5	BCK H5-1	53~70			62~70				1.10	TC..1102
		BCK H5-2	65~82	57	53	65~82	19	34	25.5		
		BCK H5-3	78~95			78~95					
BCK68	6	BCK H6-1	68~100			80~100				1.74	TC..1102
		BCK H6-2	94~126	71	67.2	94~126	22	45.2	32.5		
		BCK H6-3	118~150			118~150					
BCK100	6	BCK H6-1	100~153			112~153				2.46	TC..1102
		BCK H6-2	126~179	71	67.2	126~179	22	45.2	45.5		
		BCK H6-3	150~203			150~203					

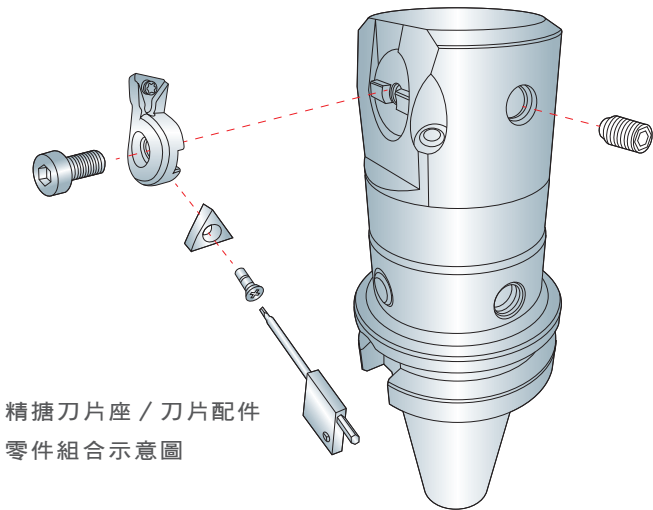
Unit: mm

Insert Holder / Insert / Spare Parts

刀片座 / 刀片 / 備用零件

BCK

BT / NT
series



Features

- When ordering, please specify the insert is TP../TC.. or CC.. Type.
- For example / 例 :
BCK H4-1-T, BCK H1-3-C ...
- Insert must be ordered separately.
- 請於訂購時確認所需要的刀片為三角形 (TP../TC..) 或菱形 (CC..)
- 刀片為另購品

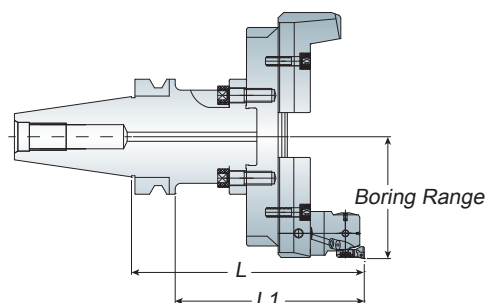
刀片座 Model No.	刀片座螺絲 Insert Holder Screw	固定螺絲 Set Screw	Insert T Type (TP/TC..) (三角刀片)			Insert C Type (CC..) (菱形刀片)		
			刀片 Insert	刀片螺絲 Insert Screw	扳手 Wrench	刀片 Insert	刀片螺絲 Insert Screw	扳手 Wrench
BCK H1-1	BCK20-M3	2272.542	 TP..0802	MS2205A	T7	 CC..0602	MS2506A	T9
BCK H1-2								
BCK H1-3								
BCK H2-1	BCK25-M3	2272.542	 TC..1102	MS2506A	T9	 CC..09T3	MS4011A	T15
BCK H2-2								
BCK H2-3								
BCK H3-1	BCK32-M4	2272.552	 TC..1102	MS2506A	T9	 CC..09T3	MS4011A	T15
BCK H3-2								
BCK H3-3								
BCK H4-1	BCK41-M5	2272.562	 TC..1102	MS2506A	T9	 CC..09T3	MS4011A	T15
BCK H4-2								
BCK H4-3								
BCK H5-1	BCK53-M5	2272.582	 TC..1102	MS2506A	T9	 CC..09T3	MS4011A	T15
BCK H5-2								
BCK H5-3								
BCK H6-1	BCK68-M8	2272.602	 TC..1102	MS2506A	T9	 CC..09T3	MS4011A	T15
BCK H6-2								
BCK H6-3								
BCK H6-1	BCK100-M8	2272.602	 TC..1102	MS2506A	T9	 CC..09T3	MS4011A	T15
BCK H6-2								
BCK H6-3								

BT / NT
series

BCK

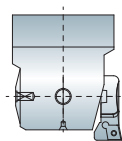
Micro Boring Head

大孔徑精搪刀頭



型號 Model No.	搪孔範圍 Boring Range		適用刀桿 BST Holder	L	L1	BCK 橫向滑板 Extension Slide	BCK 微調滑塊 Finish Slide	平衡滑塊 Balance Slide	精搪頭 Boring Head	刀片 Insert
	Min.	Max.								
BCK200	200	300	BT50 BST100 BT50 BST150	200 250	165 215	ES-BCK200	FS200	BS200	BCK41	TC..1102
BCK300	300	400	BT50 BST200 BT50 BST250	300 350	265 315	ES-BCK300				
BCK400	400	500	BT50 BST300	400	365	ES-BCK400				
BCK500	500	600	BT50 BST350	450	415	ES-BCK500				

Unit: mm



標準配件
BCKH4-1



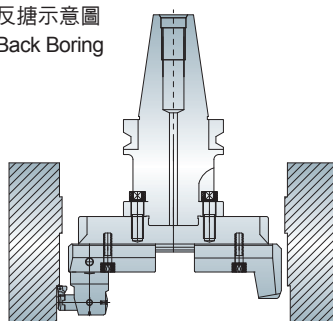
另購品
BCKH4-2
+Ø9



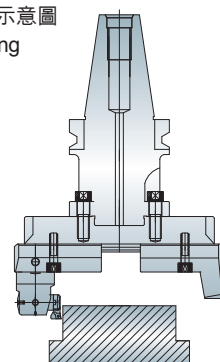
另購品
BCKH4-3
+Ø11

- To use with H#-2&3 insert holder could extend the boring range.
- 使用 H#-2&3 刀片座，可擴大加工範圍

反搪示意圖
Back Boring



外搪示意圖
Turning

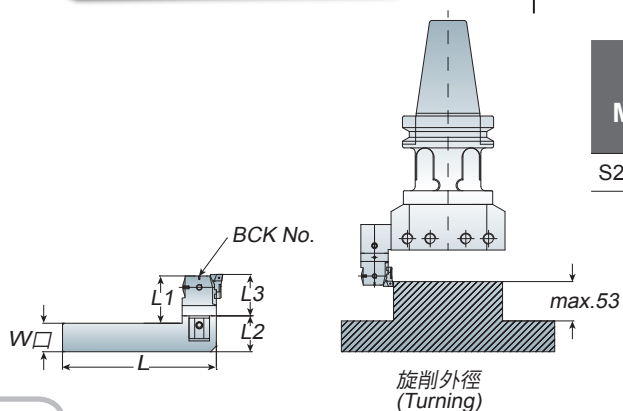


Square Boring Holder

方型精搪刀桿

型號 Model No.	L	L1	L2	L3	W □	精搪頭 Boring Head	刀片 Insert
S25-BCK32-135	135	56	41	40	25	BCK32	TP..0802

Unit: mm



Adjustable Balance Cutter

雙刃粗搪刀頭 Ø19 ~ Ø122mm

ACK

BT / NT
series

Model No.	Boring Range		D	D1	L	Tool Holder	Weight (kg)
	Min.	Max.					
ACK19-C	19	25	11	18	38	ACK1	0.10
ACK25-C	25	33	14	20	45	ACK2	0.20
ACK32-C	32	42	18	28	50	ACK3	0.30
ACK32-T	32	42	18	28	50	ACK3	0.30
ACK40-C	40	55	22	36	65	ACK4	0.50
ACK40-T	40	55	22	36	65	ACK4	0.50
ACK52-C	52	70	28	48	70	ACK5	0.90
ACK52-T	52	70	28	48	70	ACK5	0.90
ACK68-C	68	92	36	60	80	ACK6	1.80
ACK68-T	68	92	36	60	80	ACK6	1.80
ACK90-C	90	122	36	60	90	ACK6	2.60
ACK90-T	90	122	36	60	90	ACK6	2.60

Unit: mm

- When ordering, please specify the cutter with AA or AB type.
For example: ACK68 (AA-C)
- 請於訂購時，確認刃高為 AA 或 AB 型
例：ACK68 (AA-C)

Features

- AA type (FIG.1) - 兩刃同高：用於盲孔
AA type (FIG.1) - Standard type = Use the blind hole
- AB type (FIG.2) - 兩刃不同高：用於通孔
AB type (FIG.2) - Stepped type = Use the through hole

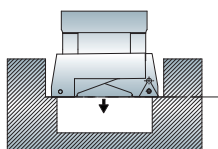


FIG.1

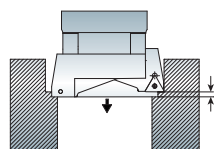
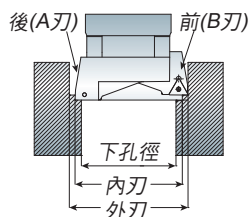
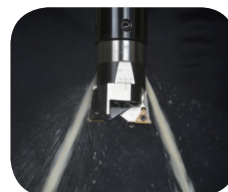
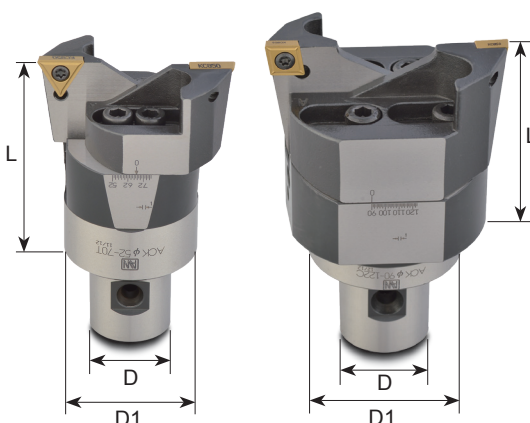


FIG.2

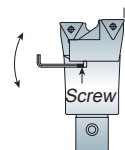


2 段平衡式切削：
將刀片座分為一前 (B 刃) 一後 (A 刃)，使
AB Type 將比 AA Type 增加 2 倍的切削力
Stepped cutting:
AB Type will be approx double removal
than AA Type.



ACK19 ~ ACK90: 為出水型搪頭
ACK19 ~ ACK90: Coolant type boring head.

- 旋轉兩顆螺絲，即可調整搪孔尺寸
Adjust screws that can set the boring range.



Extension Adapter

雙刃刀頭延長桿

Model No.	D	L	ACK / BCK Cutter No.	Weight (kg)
ACK1-30	11	30	ACK19	0.10
ACK2-30	14	30	ACK25	0.10
ACK3-35	18	35	ACK32 / BCK32	0.20
ACK4-40	22	40	ACK40 / BCK41	0.40
ACK5-45	28	45	ACK52 / BCK53	0.80
ACK6-52	36	52	ACK68 / ACK90 / BCK68 / BCK100	1.20

Unit: mm

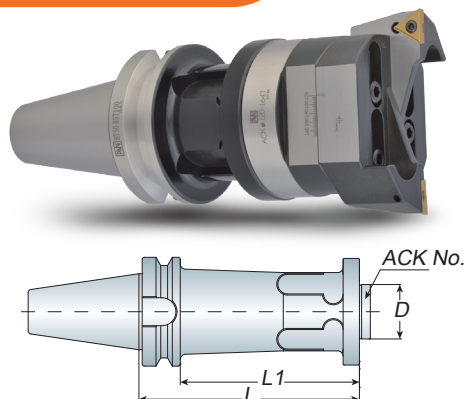


BT / NT
series

BST

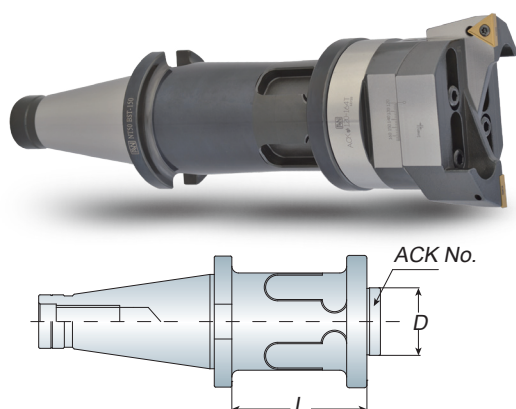
Adjustable Balance Cutter Tool Holder

大口徑雙刃粗搪刀桿



Model No.	D	L	L1	ACK Cutter No.	Weight (kg)
BT50 BST100	50	100	65	ACK120 ACK160 ACK200 ACK300 ACK400	5.00
BST125	50	125	90		5.30
BST150	50	150	115		6.70
BST175	50	175	140		7.30
BST200	50	200	165		7.60
BST225	50	225	190		8.30
BST250	50	250	215		9.50
BST275	50	275	240		9.90
BST300	50	300	265		10.80
BST350	50	350	315		13.50
BST400	50	400	365		14.40

Unit: mm



Model No.	D	L	ACK Cutter No.	Draw Bolt	Weight (kg)
NT50 BST100	50	100	ACK120 ACK160 ACK200 ACK300 ACK400	1"-8 M24x3.0P	4.80
BST125	50	125			5.10
BST150	50	150			6.50
BST175	50	175			6.80
BST200	50	200			7.30
BST225	50	225			7.90
BST250	50	250			8.70
BST275	50	275			9.00
BST300	50	300			9.90
BST350	50	350			12.60
BST400	50	400			13.50

Unit: mm

- When ordering, please specify the draw bolt with inch size or metric size.
- 請於訂購時，確認刀桿為英制或公制

ACK

Adjustable Balance Cutter

大口徑雙刃粗搪刀頭 Ø120 ~ Ø500mm



- Balance cutter with two insert holders that reduce vibration and steady for cutting.
- When ordering, please specify the cutter with AA or AB type.
For example: ACK200 (AB-T)
- 刀頭雙層對稱式刀座設計可於加工時降低震動、斷屑容易
- 請於訂購時，確認刃高為 AA 或 AB 型
例：ACK200 (AB-T)

Model No.	Boring Range		D	L	Tool Holder	Weight (kg)
	Min.	Max.				
ACK120-C	120	164	95	95	BST	3.80
ACK120-T	120	164	95	95		3.80
ACK160-C	160	204	95	95		4.80
ACK160-T	160	204	95	95		4.80
ACK200-C	200	300	80	75		5.20
ACK200-T	200	300	80	75		5.20
ACK300-C	300	400	80	75		7.90
ACK300-T	300	400	80	75		7.90
ACK400-C	400	500	80	75	BST	9.70
ACK400-T	400	500	80	75		9.70

Unit: mm

Insert For ACK Adjustable Balance Cutter

刀片 - ACK 粗搪刀頭適用

TIPS

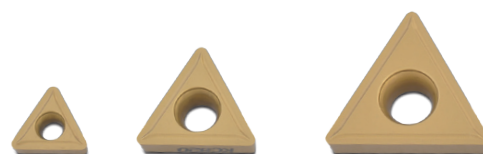
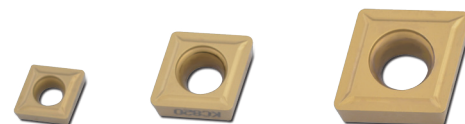
BT / NT
series

CCMT

ACK Cutter No.	Insert	Screw	Wrench
ACK19 / ACK25	CC.. 060208	MS2506A	T9
ACK32	CC.. 060208	MS2506A	T9
ACK40 / ACK52	CC.. 09T308	MS4011A	T15
ACK68 / ACK90 / ACK120 / ACK160 ACK200 / ACK300 / ACK400	CC.. 120408	MS5011A	T20

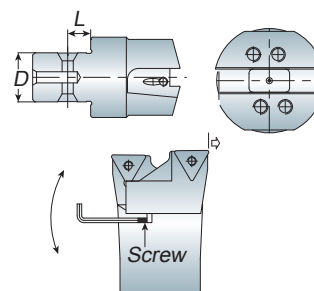
TCMT

ACK Cutter No.	Insert	Screw	Wrench
ACK32	TC.. 110208	MS2506A	T9
ACK40 / ACK52 / ACK68	TC.. 16T308	MS4011A	T15
ACK90 / ACK120 / ACK160 / ACK200 ACK300 / ACK400	TC.. 220408	MS5011A	T20

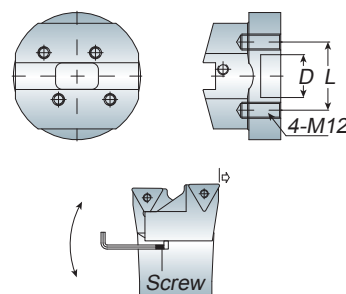


- For working material, the inserts divides the most common used 3 types: 1. IRON: KC850, 2. CAST IRON: KC5010, 3. ALUM: KC313.
- When ordering, please specify the material code. For example: CCMT 060208 KC850
- 依加工材質，刀片可區分為三種：
1. 鐵：KC850，2. 鑄鐵：KC5010，3. 鋁：KC313
- 訂購時，請註明材質編號
例：CCMT 060208 KC850

ACK19~90 TYPE



ACK120~400 TYPE



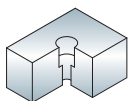
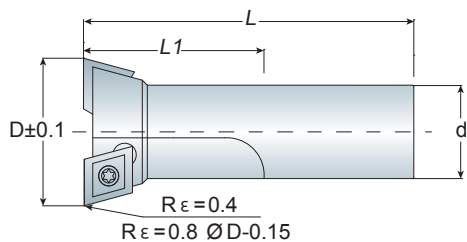
ACK Cutter No.	Suitable Holder	D	L	Screw
ACK19	ACK1	11	5	3x6
ACK25	ACK2	14	6	3x6
ACK32	ACK3	18	7	4x8
ACK40	ACK4	22	9	4x12
ACK52	ACK5	28	12	5x15
ACK68	ACK6	36	15	6x20
ACK90	ACK6	36	15	8x25
ACK120	BST	50	72	8x30
ACK160	BST	50	72	8x45
ACK200	BST	50	72	8x60
ACK300	BST	50	72	8x60
ACK400	BST	50	72	8x60

BT / NT
series

TB

Fixed Rough Boring Bar

固定式粗搪刀桿



Boring/孔加工



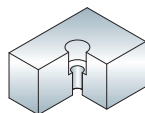
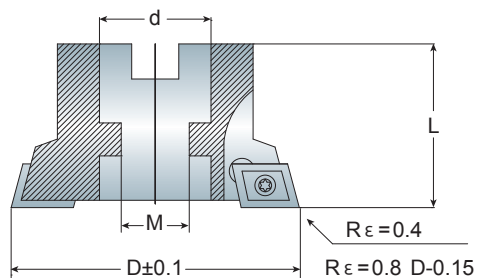
TB	Model No.	L	Model No.	L	Model No.	L	Dimension			Teeth	Insert 				
							D R ε =0.4	d	L1						
12	TB12-S16-120	120	TB12-S16-160	160	TB12-S16-200	200	11.8	16	30	1	CC..060204				
13	TB13-S16-120		TB13-S16-160		TB13-S16-200		12.8								
14	TB14-S16-120		TB14-S16-160		TB14-S16-200		13.8								
15	TB15-S16-120		TB15-S16-160		TB15-S16-200		14.8								
16	TB16-S16-120	120	TB16-S16-160	160	TB16-S16-200	200	15.8	16	30	2		CC..060204			
17	TB17-S16-120		TB17-S16-160		TB17-S16-200		16.8								
18	TB18-S16-120		TB18-S16-160		TB18-S16-200		17.8								
19	TB19-S16-120		TB19-S16-160		TB19-S16-200		18.8								
20	TB20-S16-120		TB20-S16-160		TB20-S16-200		19.8								
21	TB21-S16-120		TB21-S16-160		TB21-S16-200		20.8								
22	TB22-S16-120		TB22-S16-160		TB22-S16-200		21.8								
23	TB23-S20-130	130	TB23-S20-160	160	TB23-S20-200	200	22.8	20	30	2			CC..060204		
24	TB24-S20-130		TB24-S20-160		TB24-S20-200		23.8								
25	TB25-S20-130		TB25-S20-160		TB25-S20-200		24.8								
26	TB26-S20-130	130	TB26-S20-160	160	TB26-S20-200	200	25.8	20	30	2				CC..060204	
27	TB27-S20-130		TB27-S20-160		TB27-S20-200		26.8								
28	TB28-S20-130		TB28-S20-160		TB28-S20-200		27.8								
29	TB29-S20-130		TB29-S20-160		TB29-S20-200		28.8								
30	TB30-S25-160	160	TB30-S25-200	200	TB30-S25-250	250	29.8	25	40	2					CC..060204
31	TB31-S25-160		TB31-S25-200		TB31-S25-250		30.8								
32	TB32-S25-160		TB32-S25-200		TB32-S25-250		31.8								
33	TB33-S25-160		TB33-S25-200		TB33-S25-250		32.8								
34	TB34-S25-160		TB34-S25-200		TB34-S25-250		33.8								
35	TB35-S25-160		TB35-S25-200		TB35-S25-250		34.8								
36	TB36-S25-160		TB36-S25-200		TB36-S25-250		35.8								
37	TB37-S25-160		TB37-S25-200		TB37-S25-250		36.8								
38	TB38-S25-160		TB38-S25-200		TB38-S25-250		37.8								
39	TB39-S25-160		TB39-S25-200		TB39-S25-250		38.8								
40	TB40-S25-160		TB40-S25-200		TB40-S25-250		39.8								
41	TB41-S32-200	200	TB41-S32-250	250	TB41-S32-300	300	40.8	32	45	2	CC..09T304				
42	TB42-S32-200		TB42-S32-250		TB42-S32-300		41.8								
43	TB43-S32-200		TB43-S32-250		TB43-S32-300		42.8								
44	TB44-S32-200		TB44-S32-250		TB44-S32-300		43.8								
45	TB45-S32-200		TB45-S32-250		TB45-S32-300		44.8								
46	TB46-S32-200		TB46-S32-250		TB46-S32-300		45.8								
47	TB47-S32-200		TB47-S32-250		TB47-S32-300		46.8								
48	TB48-S32-200		TB48-S32-250		TB48-S32-300		47.8								
49	TB49-S32-200		TB49-S32-250		TB49-S32-300		48.8								
50	TB50-S32-200		TB50-S32-250		TB50-S32-300		49.8								
51	TB51-S32-200	200	TB51-S32-250	250	TB51-S32-300	300	50.8	32	45	2		CC..09T304			
52	TB52-S32-200		TB52-S32-250		TB52-S32-300		51.8								
53	TB53-S32-200		TB53-S32-250		TB53-S32-300		52.8								
54	TB54-S32-200		TB54-S32-250		TB54-S32-300		53.8								
55	TB55-S32-200		TB55-S32-250		TB55-S32-300		54.8								
56	TB56-S32-200		TB56-S32-250		TB56-S32-300		55.8								
57	TB57-S32-200		TB57-S32-250		TB57-S32-300		56.8								

Fixed Rough Boring Bar

固定式粗搪刀桿

TB

BT / NT
series



Boring/孔加工



Features

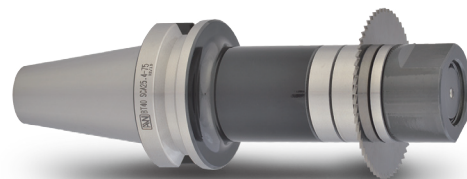
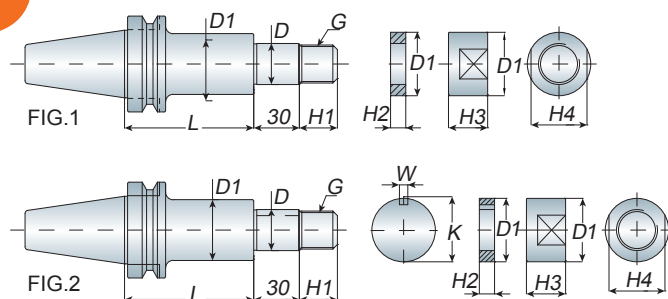
- For working material, the inserts divide the most common used 3 types: 1. IRON: KC850, 2. CAST IRON: KC5010, 3. ALUM: KC313
- When ordering, please specify the material code.
For example: CCMT120404 KC850
- 依加工材質，刀片可區分為三種：
1. 鐵：KC850，2. 鑄鐵：KC5010，3. 鋁：KC313
- 訂購時，請註明材質編號
例：CCMT120404 KC850

TB	Model No. (d=22.0)	Model No. (d=25.4)	Insert	Model No. (d=22.0 / 25.4)	Insert	D Rε = 0.4	Teeth
45	TB45-22.0-CC09					44.8	
46	TB46-22.0-CC09					45.8	
47	TB47-22.0-CC09		CC..09T304		CC..120404	46.8	2
48	TB48-22.0-CC09					47.8	
50	TB50-22.0-CC09	TB50-25.4-CC09				49.8	
51	TB51-22.0-CC09	TB51-25.4-CC09				50.8	
52	TB52-22.0-CC09	TB52-25.4-CC09				51.8	
55	TB55-22.0-CC09	TB55-25.4-CC09	CC..09T304	TB55-22.0-CC12	CC..120404	54.8	2
57	TB57-22.0-CC09	TB57-25.4-CC09		TB57-22.0-CC12		56.8	
59	TB59-22.0-CC09	TB59-25.4-CC09		TB59-22.0-CC12		58.8	
60	TB60-22.0-CC09	TB60-25.4-CC09		TB60-22.0-CC12		59.8	
62	TB62-22.0-CC09	TB62-25.4-CC09		TB62-25.4-CC12		61.8	
63	TB63-22.0-CC09	TB63-25.4-CC09	CC..09T304	TB63-25.4-CC12	CC..120404	62.8	2
65	TB65-22.0-CC09	TB65-25.4-CC09		TB65-25.4-CC12		64.8	
66	TB66-22.0-CC09	TB66-25.4-CC09		TB66-25.4-CC12		65.8	
68	TB68-22.0-CC09	TB68-25.4-CC09		TB68-25.4-CC12		67.8	
69	TB69-22.0-CC09	TB69-25.4-CC09		TB69-25.4-CC12		68.8	
70	TB70-22.0-CC09	TB70-25.4-CC09	CC..09T304	TB70-25.4-CC12	CC..120404	69.8	2
72	TB72-22.0-CC09	TB72-25.4-CC09		TB72-25.4-CC12		71.8	
74		TB74-25.4-CC09		TB74-25.4-CC12		73.8	
75	TB75-22.0-CC09	TB75-25.4-CC09		TB75-25.4-CC12		74.8	
76		TB76-25.4-CC09		TB76-25.4-CC12		75.8	
78		TB78-25.4-CC09	CC..09T304	TB78-25.4-CC12	CC..120404	77.8	2
80		TB80-25.4-CC09		TB80-25.4-CC12		79.8	
82		TB82-25.4-CC09		TB82-25.4-CC12		81.8	
84		TB84-25.4-CC09		TB84-25.4-CC12		83.8	
85		TB85-25.4-CC09		TB85-25.4-CC12		84.8	
88		TB88-25.4-CC09	CC..09T304	TB88-25.4-CC12	CC..120404	87.8	2
90		TB90-25.4-CC09		TB90-25.4-CC12		89.8	
95		TB95-25.4-CC09		TB95-25.4-CC12		94.8	

Insert	Screw	Wrench
CCMT060204	MS2506A	T9
CCMT09T304	MS4011A	T15
CCMT120404	MS5011A	T20

Dimension	d	M	L
TB...-22.0-...	22.0	11	50
TB...-25.4-...	25.4	13	50

Unit: mm

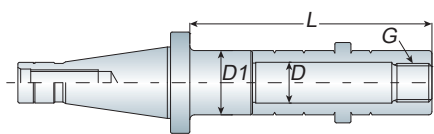


Model No.	FIG.	D	L	D1	H1	W	K	H2	H3	H4	G	Weight (kg)
BT30 SCA13-060	1	13	60	20	15	-	-	5 10 20	12	17	M12x1.75P	0.70
-090			90									1.00
SCA16-075	2	16	75	26	16	4	17.2		13	22	M16x1.5P	0.90
-105			105									1.10
SCA22-075		22	75	34	21	6	23.6		18	30	M22x1.5P	1.30
-120			120									1.50
BT40 SCA13-060	1	13	60	20	15	-	-		12	17	M12x1.75P	1.10
-090			90									1.40
SCA16-075	2	16	75	26	16	4	17.2		13	22	M16x1.5P	1.50
-105			105									1.60
SCA22-075		22	75	34	21	6	23.6		18	30	M22x1.5P	1.90
-120			120									2.20
SCA27-075		27	75	40	25	7	29		21	32	M25x1.5P	2.00
-120			120									2.60
SCA32-090		32	90	46	30	8	34		26	41	M31x2.0P	2.70
SCA12.7-060	1	12.7	60	20	15	-	-		12	17	M12x1.75P	1.10
-090			90									1.40
SCA15.875-075	2	15.875	75	26	16	3.18	17.42		13	22	M16x1.5P	1.50
-105			105									1.60
SCA22.225-075		22.225	75	34	21	3.18	23.82		18	30	M22x1.5P	1.90
-120			120									2.20
SCA25.4-075		25.4	75	40	25	6.35	27.78		21	32	M25x1.5P	2.00
-120			120									2.50
SCA31.75-090		31.75	90	46	30	7.92	34.92		26	41	M31x2.0P	2.70
BT50 SCA13-075	1	13	75	20	15	-	-		12	17	M12x1.75P	4.10
-105			105									4.30
SCA16-090	2	16	90	26	16	4	17.2		13	22	M16x1.5P	4.10
-120			120									4.40
SCA22-090		22	90	34	21	6	23.6		18	30	M22x1.5P	4.60
-135			135									5.00
SCA27-090		27	90	40	25	7	29		21	32	M25x1.5P	5.00
-135			135									5.50
SCA32-090		32	90	46	30	8	34		26	41	M31x2.0P	5.40
-135			135									6.10
SCA40-090		40	90	55	36	10	42.5		31	46	M36x2.0P	6.10
-135			135									7.00
SCA12.7-075	1	12.7	75	20	15	-	-		12	17	M12x1.75P	4.10
-105			105									4.30
SCA15.875-090	2	15.875	90	26	16	3.18	17.42		13	22	M16x1.5P	4.20
-120			120									4.50
SCA22.225-090		22.225	90	34	21	3.18	23.82		18	30	M22x1.5P	4.60
-135			135									5.00
SCA25.4-090		25.4	90	40	25	6.35	27.78		21	32	M25x1.5P	5.00
-135			135									5.50
SCA31.75-090		31.75	90	46	30	7.92	34.92		26	41	M31x2.0P	5.40
-135			135									6.10
SCA38.1-090		38.1	90	55	36	9.52	42.06		31	46	M36x2.0P	6.10
-135			135									7.00

Unit: mm

Side Cutter Holder

側銑刀桿

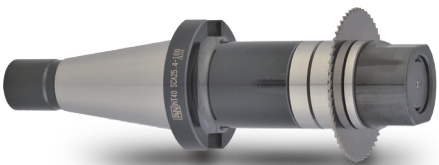


Model No.	D	D1	L	G	Draw Bolt
NT30 SCA25.4-L	25.4	40	3", 4", 5", 6"	M25x1.5P	1/2"-12
SCA31.75-L	31.75	45	3", 4", 5", 6"	M31x2.0P	M12x1.75P
NT40 SCA25.4-L	25.4	40	3", 4", 5", 6" 7", 8"	M25x1.5P	5/8"-11
SCA31.75-L	31.75	45	3", 4", 5", 6" 7", 8"	M31x2.0P	M16x2.0P
NT50 SCA25.4-L	25.4	40	3", 4", 5", 6" 7", 8"	M25x1.5P	1"-8
SCA31.75-L	31.75	45	3", 4", 5", 6" 7", 8"	M31x2.0P	M24x3.0P
SCA38.1-L	38.1	50	3", 4", 5", 6" 7", 8"	M36x2.0P	

Unit: mm

SCA

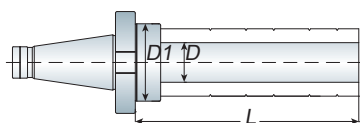
BT / NT
series



- When ordering, please specify the draw bolt with inch size or metric size.
- When ordering, please advice length (L).
- 請於訂購時，確認刀桿為英制或公制
- 請於訂購時，確認刀桿長度 (L)

Horizontal Mill Arbor

橫銑刀桿



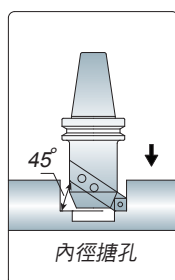
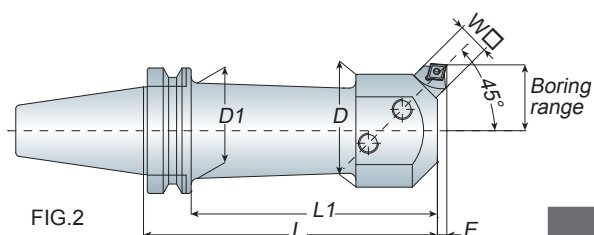
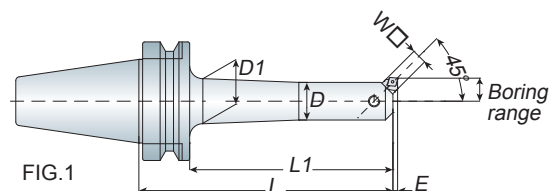
Model No.	D	D1	L	Spacer thickness	Draw Bolt
NT40 HMA25.4/22/27-L	25.4 22 27	40	500 600	5, 10, 20, 40, 60, 80	5/8"-11
HMA31.75/32-L	31.75 32	45	500 600	5, 10, 20, 40, 60, 80	M16x2.0P
NT50 HMA25.4/27-L	25.4 27	40	600	5, 10, 20, 40, 60, 80	1"-8
HMA31.75/32-L	31.75 32	45	600	5, 10, 20, 40, 60, 80	M24x3.0P
HMA38.1-L	38.1	50	600	5, 10, 20, 40, 60, 80	

Unit: mm

HMA



- Customize according to your request.
- When ordering, please specify the D & L and the draw bolt with inch size or metric size.
- 依需求接受訂製
- 請於訂購時，確認 D 和 L 以及刀桿為英制或公制



Features

- Throw away boring cutter must be ordered separately and the degree must be 45°.
- When ordering the throw away boring cutter, please check the $W \square$.
- 捨棄式搪刀架為另購品，內徑搪孔角度需為 45°
- 請於訂購捨棄式搪刀架時，確認 $W \square$ 尺寸



P76- Boring Cutter

Model No.	FIG.	Boring Range		D	D1	L	L1	E	W□	Weight (kg)
		Min.	Max.							
BT30 BSA020-105	1	20	30	17	19	105	85	-	6	0.70
BSA025-120	1	25	38	20	24	120	100	1	8	0.80
160	1	25	38	20	24	160	140	1	8	1.00
BSA030-150	1	30	42	24	28	150	130	1.6	8	1.00
-180	1	30	42	24	28	180	160	1.6	8	1.20
-210	1	30	42	24	28	210	190	1.6	8	1.40
BSA038-165	1	38	52	30	36	165	145	2.6	10	1.40
BSA050-165	1	50	65	40	48	165	145	3	13	1.90
-210	1	50	65	40	48	210	190	3	13	2.40
BT40 BSA025-135	1	25	38	20	24	135	110	1	8	1.40
BSA030-150	1	30	42	24	28	150	125	1.6	8	1.60
BSA038-165	1	38	52	30	36	165	140	2.6	10	2.00
BSA050-165	1	50	65	40	48	165	140	3	13	2.50
-210	1	50	65	40	48	210	185	3	13	2.90
BSA062-165	1	62	90	50	58	165	140	2	16	3.20
-225	1	62	90	50	58	225	200	2	16	4.20
BSA072-165	2	72	110	60	60	165	140	2.4	19	3.90
-225	2	72	110	60	60	225	200	2.4	19	5.20
BSA090-165	2	90	125	75	75	165	140	4	19	4.60
-210	2	90	125	75	75	210	185	4	19	5.30
BT50 BSA025-135	1	25	38	20	24	135	100	1	8	4.20
BSA030-165	1	30	42	24	28	165	130	1.6	8	4.40
BSA038-180	1	38	52	30	36	180	145	2.6	10	4.80
-230	1	38	52	30	36	230	195	2.6	10	5.10
BSA042-210	1	42	56	34	38	210	175	2	10	5.20
-240	1	42	56	34	38	240	205	2	10	5.60
BSA050-180	1	50	65	40	48	180	145	3	13	5.40
-240	1	50	65	40	48	240	205	3	13	6.20
-270	1	50	65	40	48	270	235	3	13	6.50
-300	1	50	65	40	48	300	265	3	13	6.80
BSA062-195	1	62	90	50	58	195	160	2	16	6.40
-240	1	62	90	50	58	240	205	2	16	7.20
-270	1	62	90	50	58	270	235	2	16	7.80
-300	1	62	90	50	58	300	265	2	16	8.30
BSA072-195	1	72	110	60	68	195	160	2.4	19	7.30
-240	1	72	110	60	68	240	205	2.4	19	8.50
-285	1	72	110	60	68	285	250	2.4	19	9.60
-320	1	72	110	60	68	320	285	2.4	19	9.70
BSA090-210	1	90	125	75	74	210	175	4	19	8.60
-250	1	90	125	75	74	250	215	4	19	9.80
-300	1	90	125	75	74	300	265	4	19	11.10
BSA105-195	2	105	160	90	76	195	160	3	25	8.60
-285	2	105	160	90	76	285	250	3	25	11.60

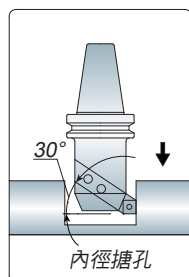
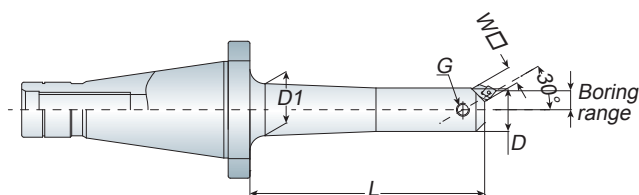
Unit: mm

Boring Holder

粗搪刀桿

BSA

BT / NT
series



Features

- When ordering, please specify the draw bolt with inch size or metric size.
- Throw away boring cutter must be ordered separately and the degree must be 30°
- When ordering the throw away boring cutter, please check the W □ .
- 請於訂購時，確認刀桿為英制或公制
- 捨棄式搪刀架為另購品，內徑搪孔角度需為 30°
- 請於訂購捨棄式搪刀架時，確認 W □ 尺寸



P76- Boring Cutter

Model No.	Boring Range		D	D1	L	W □	G	Draw Bolt	Weight (kg)
	Min.	Max.							
NT30 BSA016-100	16	20	14	16	100	6	M06	1/2"-12 M12x1.75P	0.60
BSA020-120	20	25	16	19	120	6	M06		0.70
BSA025-135	25	38	20	24	135	8	M06		0.80
BSA030-165	30	42	24	28	165	8	M06		1.00
BSA038-180	38	52	30	36	180	10	M08		1.40
BSA042-210	42	56	34	38	210	10	M08		1.60
NT40 BSA016-100	16	20	14	16	100	6	M06	5/8"-11 M16x2.0P	1.00
BSA020-120	20	25	16	19	120	6	M06		1.20
BSA025-135	25	38	20	24	135	8	M06		1.30
BSA030-165	30	42	24	28	165	8	M06		1.60
BSA038-180	38	52	30	36	180	10	M08		2.10
BSA042-210	42	56	34	38	210	10	M08		2.40
BSA050-180	50	65	40	48	180	13	M10		2.70
-240	50	65	40	48	240	13	M10		3.40
BSA062-195	62	90	50	58	195	16	M10		3.90
-270	62	90	50	58	270	16	M10		5.30
BSA072-195	72	110	60	68	195	19	M12		4.60
-285	72	110	60	68	285	19	M12		6.00
BSA090-210	90	125	75	-	210	19	M12		5.20
-300	90	125	75	-	300	19	M12		6.70
BSA105-195	105	160	90	-	195	25	M16		6.60
-285	105	160	90	-	285	25	M16		8.20
NT50 BSA016-100	16	20	14	16	100	6	M06	1"-8 M24x3.0P	3.00
BSA020-120	20	25	16	19	120	6	M06		3.10
BSA025-135	25	38	20	24	135	8	M06		4.00
BSA030-165	30	42	24	28	165	8	M06		4.10
BSA038-180	38	52	30	36	180	10	M08		4.30
-230	38	52	30	36	230	10	M08		4.50
BSA042-210	42	56	34	38	210	10	M08		4.60
-240	42	56	34	38	240	10	M08		4.80
BSA050-180	50	65	40	48	180	13	M10		4.90
-240	50	65	40	48	240	13	M10		5.60
-270	50	65	40	48	270	13	M10		5.90
BSA062-195	62	90	50	58	195	16	M10		5.40
-240	62	90	50	58	240	16	M10		6.20
-270	62	90	50	58	270	16	M10		6.60
BSA072-195	72	110	60	68	195	19	M12		7.00
-240	72	110	60	68	240	19	M12		8.20
-285	72	110	60	68	285	19	M12		9.20
BSA090-210	90	125	75	80	210	19	M12		9.70
-250	90	125	75	80	250	19	M12		11.60
-300	90	125	75	76	300	19	M12		11.30
BSA105-195	105	160	90	68	195	25	M16		8.50
-285	105	160	90	74	285	25	M16		11.40

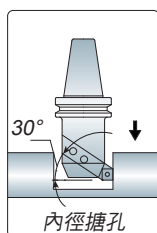
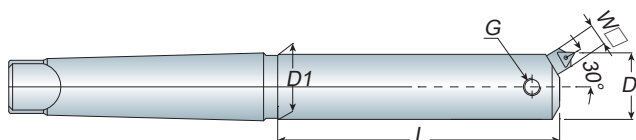
Unit: mm

BT / NT
series

BSA

Boring Holder

粗搪刀桿



Features

- Throw away boring cutter must be ordered separately and the degree must be 30°
- When ordering the throw away boring cutter, please check the W □ .
- 捨棄式搪刀架為另購品，內徑搪孔角度需為 30°
- 請於訂購捨棄式搪刀架時，確認 W □ 尺寸



Model No.	Boring Range		D	D1	L	W □	G
	Min.	Max.					
MTA3 BSA016-100	16	20	14	16	100	6	M06
BSA020-120	20	25	16	19	120	6	M06
BSA025-135	25	38	20	24	135	8	M06
BSA030-165	30	42	24	28	165	8	M06
BSA038-180	38	52	30	36	180	10	M08
BSA042-210	42	56	34	38	210	10	M08
MTA4 BSA016-100	16	20	14	16	100	6	M06
BSA020-120	20	25	16	19	120	6	M06
BSA025-135	25	38	20	24	135	8	M06
BSA030-165	30	42	24	28	165	8	M06
BSA038-180	38	52	30	36	180	10	M08
BSA042-210	42	56	34	38	210	10	M08
MTA5 BSA016-100	16	20	14	16	100	6	M06
BSA020-120	20	25	16	19	120	6	M06
BSA025-135	25	38	20	24	135	8	M06
BSA030-165	30	42	24	28	165	8	M06
BSA038-180	38	52	30	36	180	10	M08
BSA042-210	42	56	34	38	210	10	M08
BSA050-180	50	65	40	48	180	13	M10
-240	50	65	40	48	240	13	M10
BSA062-195	62	90	50	58	195	16	M10
-270	62	90	50	58	270	16	M10
BSA072-195	72	110	60	68	195	19	M12
-285	72	110	60	68	285	19	M12
BSA090-210	90	125	75	-	210	19	M12
-300	90	125	75	-	300	19	M12
BSA105-195	105	160	90	-	195	25	M16
-285	105	160	90	-	285	25	M16
MTA6 BSA016-100	16	20	14	16	100	6	M06
BSA020-120	20	25	16	19	120	6	M06
BSA025-135	25	38	20	24	135	8	M06
BSA030-165	30	42	24	28	165	8	M06
BSA038-180	38	52	30	36	180	10	M08
BSA042-210	42	56	34	38	210	10	M08
BSA050-180	50	65	40	48	180	13	M10
-240	50	65	40	48	240	13	M10
BSA062-195	62	90	50	58	195	16	M10
-270	62	90	50	58	270	16	M10
BSA072-195	72	110	60	68	195	19	M12
-285	72	110	60	68	285	19	M12
BSA090-210	90	125	75	-	210	19	M12
-300	90	125	75	-	300	19	M12
BSA105-195	105	160	90	-	195	25	M16
-285	105	160	90	-	285	25	M16

Unit: mm

Boring Holder

粗搪刀桿

BSB

BT / NT
series

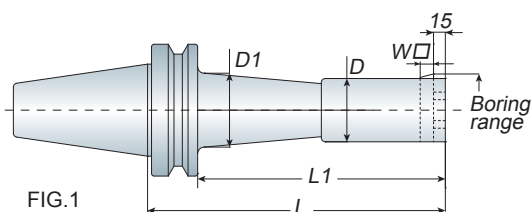


FIG.1

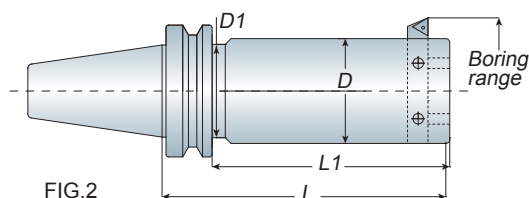
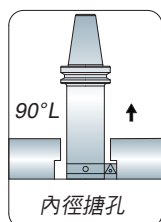


FIG.2

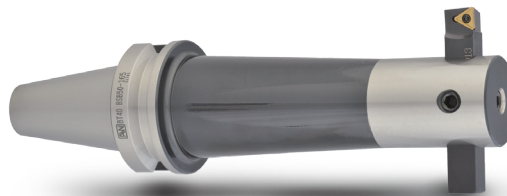


Features

- Throw away boring cutter must be ordered separately and the degree must be 90° .
- When ordering the throw away boring cutter, please check the W □ .
- 捨棄式搪刀架為另購品，內徑搪孔角度需為 90°
- 請於訂購捨棄式搪刀架時，確認 W □ 尺寸

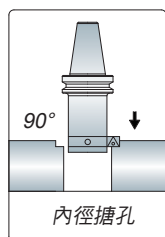
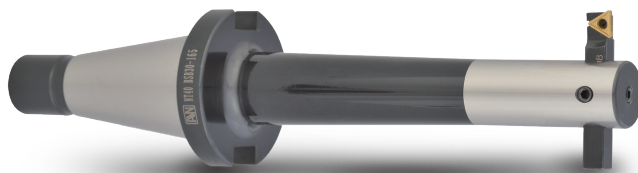
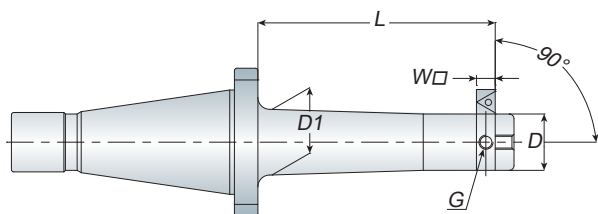


P76- Boring Cutter



Model No.	FIG.	Boring Range		D	D1	L	L1	W □	Weight (kg)
		Min.	Max.						
BT30 BSB020-105	1	20	30	17	19	105	85	6	0.70
BSB025-120	1	25	38	20	24	120	100	8	0.80
-160	1	25	38	20	24	160	140	8	1.00
BSB030-150	1	30	42	24	28	150	130	8	1.00
-165	1	30	42	24	28	165	145	8	1.10
-210	1	30	42	24	28	210	190	8	1.40
BSB038-165	1	38	52	30	36	165	145	10	1.40
BSB050-165	1	50	65	40	48	165	145	13	1.90
-210	1	50	65	40	48	210	190	13	2.40
BT40 BSB025-135	1	25	38	20	24	135	110	8	1.40
BSB038-165	1	38	52	30	36	165	140	10	2.00
BSB050-165	1	50	65	40	48	165	140	13	2.80
-210	1	50	65	40	48	210	185	13	3.40
BSB062-165	1	62	90	50	56	165	140	16	3.20
-225	1	62	90	50	56	225	200	16	4.50
BSB072-165	2	72	110	60	60	165	140	19	4.40
-225	2	72	110	60	60	225	200	19	5.30
BSB090-165	2	90	125	75	75	165	140	19	5.10
-210	2	90	125	75	75	210	185	19	6.30
BT50 BSB025-135	1	25	38	20	24	135	100	8	4.20
BSB038-180	1	38	52	30	38	180	145	10	4.90
-230	1	38	52	30	38	230	195	10	5.30
BSB042-210	1	42	56	34	38	210	175	10	5.40
-240	1	42	56	34	38	240	205	10	5.60
BSB050-180	1	50	65	40	48	180	145	13	5.60
-240	1	50	65	40	48	240	205	13	6.10
-270	1	50	65	40	48	270	235	13	6.70
-300	1	50	65	40	48	300	265	13	7.20
BSB062-195	1	62	90	50	58	195	160	16	6.40
-240	1	62	90	50	58	240	205	16	7.50
-270	1	62	90	50	58	270	235	16	7.70
-300	1	62	90	50	58	300	265	16	8.00
-330	1	62	90	50	58	330	295	16	8.40
BSB072-195	1	72	110	60	68	195	160	19	8.00
-240	1	72	110	60	68	240	205	19	8.60
-285	1	72	110	60	68	285	250	19	9.60
BSB090-210	1	90	125	75	80	210	170	19	8.90
-250	1	90	125	75	80	250	215	19	10.80
-300	1	90	125	75	80	300	265	19	12.40
BSB105-195	2	105	160	90	80	195	160	25	9.50
-285	2	105	160	90	80	285	250	25	12.20

Unit: mm



Features

- When ordering, please specify the draw bolt with inch size or metric size.
- Throw away boring cutter must be ordered separately and the degree must be 90°.
- When ordering the throw away boring cutter, please check the W □.
- 請於訂購時，確認刀桿為英制或公制
- 捨棄式搪刀架為另購品，內徑搪孔角度需為 90°
- 請於訂購捨棄式搪刀架時，確認 W □ 尺寸



Model No.	Boring Range		D	D1	L	W □	G	Draw Bolt	Weight (kg)
	Min.	Max.							
NT30 BSB016-100	16	20	14	16	100	6	M06	1/2"-12 M12x1.7.5P	0.60
BSB020-120	20	25	16	19	120	6	M06		0.70
BSB025-135	25	38	20	24	135	8	M06		0.80
BSB030-165	30	42	24	28	165	8	M06		1.00
BSB038-180	38	52	30	36	180	10	M08		1.40
BSB042-210	42	56	34	38	210	10	M08		1.60
BSB050-180	50	65	40	48	180	13	M10		2.00
NT40 BSB016-100	16	20	14	16	100	6	M06	5/8"-11 M16x2.0P	1.00
BSB020-120	20	25	16	19	120	6	M06		1.20
BSB025-135	25	38	20	24	135	8	M06		1.30
BSB030-165	30	42	24	28	165	8	M06		1.60
BSB038-180	38	52	30	36	180	10	M08		2.10
BSB042-210	42	56	34	38	210	10	M08		2.40
BSB050-180	50	65	40	48	180	13	M10		2.70
-240	50	65	40	48	240	13	M10		3.40
BSB062-195	62	90	50	58	195	16	M10		3.90
-270	62	90	50	58	270	16	M10		5.30
BSB072-195	72	110	60	68	195	19	M12		4.60
-285	72	110	60	68	285	19	M12		6.00
BSB090-210	90	125	75	-	210	19	M12		5.20
-300	90	125	75	-	300	19	M12		6.70
BSB105-195	105	160	90	-	195	25	M16		6.60
-285	105	160	90	-	285	25	M16		8.20
NT50 BSB016-100	16	20	14	16	100	6	M06	1"-8 M24x3.0P	3.00
BSB020-120	20	25	16	19	120	6	M06		3.10
BSB025-135	25	38	20	24	135	8	M06		4.00
BSB030-165	30	42	24	28	165	8	M06		4.10
BSB038-180	38	52	30	36	180	10	M08		4.30
-230	38	52	30	36	230	10	M08		4.50
BSB042-210	42	56	34	38	210	10	M08		4.60
-240	42	56	34	38	240	10	M08		4.80
BSB050-180	50	65	40	48	180	13	M10		4.90
-240	50	65	40	48	240	13	M10		5.60
-270	50	65	40	48	270	13	M10		5.90
BSB062-195	62	90	50	58	195	16	M10		5.40
-240	62	90	50	58	240	16	M10		6.20
-270	62	90	50	58	270	16	M10		6.60
BSB072-195	72	110	60	68	195	19	M12		7.00
-240	72	110	60	68	240	19	M12		7.50
-285	72	110	60	68	285	19	M12		9.20
BSB090-210	90	125	75	-	210	19	M12		9.70
-250	90	125	75	-	250	19	M12		11.60
-300	90	125	75	-	300	19	M12		11.30
BSB105-195	105	160	90	-	195	25	M16		8.50
-285	105	160	90	-	285	25	M16		11.40

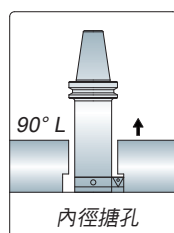
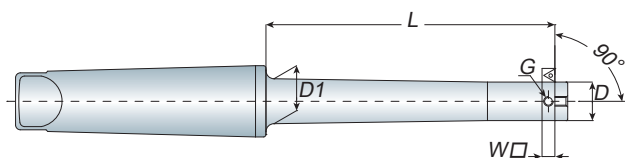
Unit: mm

Boring Holder

粗搪刀桿

BSB

BT / NT
series



Features

- Throw away boring cutter must be ordered separately and the degree must be 90° .
- When ordering the throw away boring cutter, please check the W □ .
- 捨棄式搪刀架為另購品，內徑搪孔角度需為 90°
- 請於訂購捨棄式搪刀架時，確認 W □ 尺寸



Model No.	Boring Range		D	D1	L	W □	G
	Min.	Max.					
MTA3 BSB016-100	16	20	14	16	100	6	M06
BSB020-120	20	25	16	19	120	6	M06
BSB025-135	25	38	20	24	135	8	M06
BSB030-165	30	42	24	28	165	8	M06
BSB038-180	38	52	30	36	180	10	M08
BSB042-210	42	56	34	38	210	10	M08
BSB050-180	50	65	40	48	180	13	M10
MTA4 BSB016-100	16	20	14	16	100	6	M06
BSB020-120	20	25	16	19	120	6	M06
BSB025-135	25	38	20	24	135	8	M06
BSB030-165	30	42	24	28	165	8	M06
BSB038-180	38	52	30	36	180	10	M08
BSB042-210	42	56	34	38	210	10	M08
BSB050-180	50	65	40	48	180	13	M10
MTA5 BSB016-100	16	20	14	16	100	6	M06
BSB020-120	20	25	16	19	120	6	M06
BSB025-135	25	38	20	24	135	8	M06
BSB030-165	30	42	24	28	165	8	M06
BSB038-180	38	52	30	36	180	10	M08
BSB042-210	42	56	34	38	210	10	M08
BSB050-180	50	65	40	48	180	13	M10
-240	50	65	40	48	240	13	M10
BSB062-195	62	90	50	58	195	16	M10
-270	62	90	50	58	270	16	M10
BSB072-195	72	110	60	68	195	19	M12
-285	72	110	60	68	285	19	M12
BSB090-210	90	125	75	75	210	19	M12
-300	90	125	75	75	300	19	M12
BSB105-195	105	160	95	95	195	25	M16
-285	105	160	95	95	285	25	M16
MTA6 BSB016-100	16	20	14	16	100	6	M06
BSB020-120	20	25	16	19	120	6	M06
BSB025-135	25	38	20	24	135	8	M06
BSB030-165	30	42	24	28	165	8	M06
BSB038-180	38	52	30	36	180	10	M08
BSB042-210	42	56	34	38	210	10	M08
BSB050-180	50	65	40	48	180	13	M10
-240	50	65	40	48	240	13	M10
BSB062-195	62	90	50	58	195	16	M10
-270	62	90	50	58	270	16	M10
BSB072-195	72	110	60	68	195	19	M12
-285	72	110	60	68	285	19	M12
BSB090-210	90	125	75	75	210	19	M12
-300	90	125	75	75	300	19	M12
BSB105-195	105	160	95	95	195	25	M16
-285	105	160	95	95	285	25	M16

Unit: mm

74

Ann Way



BT / NT series

BST



- The boring range is from 150 ~ 600mm
- BST boring block must be ordered separately.
- BST 粗搪刀桿之搪孔範圍為 150 ~ 600mm
- BST 刀盤為另購品



- The boring range is from 150 ~ 600mm
- When ordering, please specify the draw bolt with inch size or metric size.
- BST boring block must be ordered separately.
- BST 粗搪刀桿之搪孔範圍為 150 ~ 600mm
- 請於訂購時，確認刀桿為英制或公制
- BST 刀盤為另購品



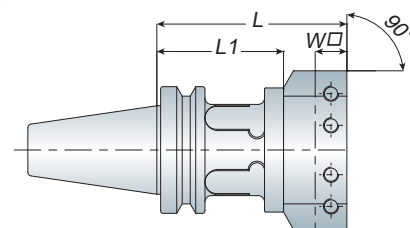
- Throw away boring cutter must be ordered separately and the degree must be 90° .
- When ordering the throw away boring cutter, please check the W □ .
- 捨棄式搪刀架為另購品，內徑搪孔角度需為 90°
- 請於訂購捨棄式搪刀架時，確認 W □ 尺寸



P76- Boring Cutter

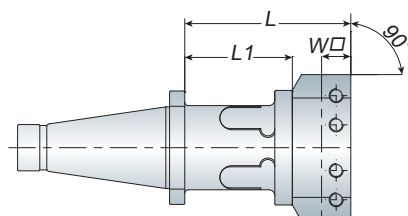
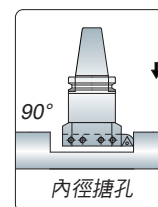
Large Size Boring Holder

大孔徑粗搪刀桿



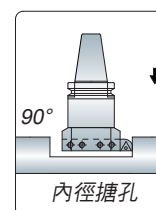
Model No.	L1	L	Weight (kg)
BT50 BST100	100	150	5.00
BST150	150	200	6.70
BST200	200	250	7.60
BST250	250	300	9.50
BST300	300	350	10.80
BST350	350	400	13.50

Unit: mm



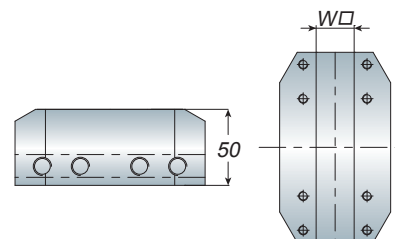
Model No.	L1	L	Draw Bolt	Weight (kg)
NT50 BST100	100	150	1"-8 M24x3.0P	4.80
BST150	150	200		6.50
BST200	200	250		7.30
BST250	250	300		8.70
BST300	300	350		9.90
BST350	350	400		12.60

Unit: mm



Boring Block

刀盤



Model No.	Boring Range		W □	Weight (kg)
	Min.	Max.		
BST-125	150	200	19/25	3.20/2.90
BST-150	170	250	19/25	3.80/3.50
BST-200	220	300	19/25	5.30/4.80
BST-250	270	350	19/25	6.20/5.60
BST-300	320	450	19/25	7.40/6.90
BST-400	450	600	19/25	10.00/9.20

Unit: mm

Throw Away Boring Cutter

捨棄式搪刀架

TBS
TSBS
SBS

BT / NT
series

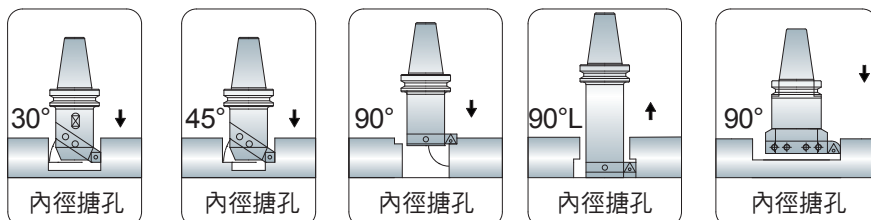


FIG.	Insert Shape	FIG. 1	Insert	FIG. 2	Insert	FIG. 2	Insert	Dimension		
		Model No.		Model No.		Model No.		H	W	L
1		TBS306	CC..0602..	TSBS306	TC..0902..	SBS306	TP..0902..	6	6	55
		TBS308	CC..0602..	TSBS308	TC..0902..	SBS308	TP..0902..	8	8	55
		TBS310	CC..0602..	TSBS310	TC..0902..	SBS310	TP..0902..	10	10	65
		TBS313	CC..09T3..	TSBS313	TC..1102..	SBS313	TP..1103..	13	13	80
		TBS316	CC..09T3..	TSBS316	TC..16T3..	SBS316	TP..1103..	16	16	120
		TBS319	CC..1204..	TSBS319	TC..16T3..	SBS319	TP..1603..	19	19	140
		TBS325	CC..1204..	TSBS325	TC..16T3..	SBS325	TP..1603..	25	25	150
2		TBS406	CC..0602..	TSBS406	TC..0902..	SBS406	TP..0902..	6	6	55
		TBS408	CC..0602..	TSBS408	TC..0902..	SBS408	TP..0902..	8	8	55
		TBS410	CC..0602..	TSBS410	TC..0902..	SBS410	TP..0902..	10	10	65
		TBS413	CC..09T3..	TSBS413	TC..1102..	SBS413	TP..1103..	13	13	80
		TBS416	CC..09T3..	TSBS416	TC..16T3..	SBS416	TP..1103..	16	16	120
						SBS416B	TP..1603..	16	16	120
		TBS419	CC..1204..	TSBS419	TC..16T3..	SBS419	TP..1603..	19	19	140
		TBS425	CC..1204..	TSBS425	TC..16T3..	SBS425	TP..1603..	25	25	150
1		TBS906	CC..0602..	TSBS906	TC..0902..	SBS906	TP..0902..	6	6	55
		TBS908	CC..0602..	TSBS908	TC..0902..	SBS908	TP..0902..	8	8	55
		TBS910	CC..0602..	TSBS910	TC..0902..	SBS910	TP..0902..	10	10	65
		TBS913	CC..09T3..	TSBS913	TC..1102..	SBS913	TP..1103..	13	13	80
		TBS916	CC..09T3..	TSBS916	TC..16T3..	SBS916	TP..1103..	16	16	120
						SBS916B	TP..1603..	16	16	120
		TBS919	CC..1204..	TSBS919	TC..16T3..	SBS919	TP..1603..	19	19	140
		TBS925	CC..1204..	TSBS925	TC..16T3..	SBS925	TP..1603..	25	25	150
1		TBS908L	CC..0602..					8	8	55
		TBS910L	CC..0602..					10	10	65
		TBS913L	CC..09T3..					13	13	80
		TBS916L	CC..09T3..					16	16	120
		TBS919L	CC..1204..					19	19	140
		TBS925L	CC..1204..					25	25	150

Unit: mm

Insert	Screw	Wrench	Insert	Screw	Wrench	Insert	Screw	Wrench
CC..0602..	MS2506A	T9	TC..0902..	MS2206A	T7	TP..0902..	MS2506A	T9
CC..09T3..	MS4011A	T15	TC..1102..	MS2506A	T9	TP..1103..	MS3008A	T9
CC..1204..	MS5011A	T20	TC..16T3..	MS4011A	T15	TP..1603..	MS4011A	T15

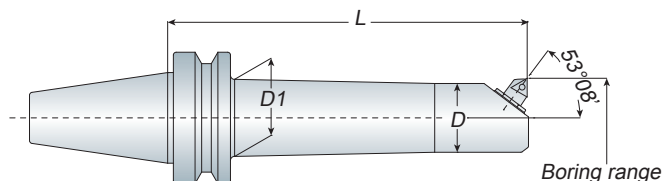
- Insert must be ordered separately.
- 刀片為另購品

BT / NT
series

BCA

Micro Boring Holder

微調精搪刀桿



- Boring head must be ordered separately.
- 精搪頭為另購品



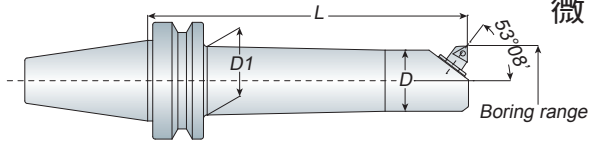
P80-Find Boring Head

Model No.	Boring Range		D	D1	L	Boring Head	Weight (kg)
	Min.	Max.					
BT30 BCA025-150	25	29	22	25	150	L148C-31	0.80
BCA026-150	26	30	23	26	150	L148C-31	0.90
-180	26	30	23	26	180	L148C-31	1.00
BCA030-160	30	34	26	30	160	L148C-31	1.10
-210	30	34	26	30	210	L148C-31	1.40
BCA033-165	33	38	29	33	165	L148C-32	1.30
-210	33	38	29	33	210	L148C-32	1.70
BCA038-165	38	43	33	38	165	L148C-32	1.40
-210	38	43	33	38	210	L148C-32	1.70
BCA043-165	43	52	38	43	165	L148C-33	1.80
-210	43	52	38	43	210	L148C-33	2.00
BCA052-180	52	61	47	52	180	L148C-33	2.30
-240	52	61	47	52	240	L148C-33	2.80
BCA061-180	61	70	56	61	180	L148C-33	2.40
-240	61	70	56	61	240	L148C-33	2.60
-330	61	70	56	61	330	L148C-33	3.00
BCA070-180	70	85	65	70	180	L148C-34	2.80
-240	70	85	65	70	240	L148C-34	3.00
-330	70	85	65	70	330	L148C-34	3.50
BT40 BCA025-150	25	29	22	25	150	L148C-31	1.50
BCA026-150	26	30	23	26	150	L148C-31	1.50
-180	26	30	23	26	180	L148C-31	1.70
BCA030-160	30	34	26	30	160	L148C-31	1.80
-210	30	34	26	30	210	L148C-31	1.90
BCA033-165	33	38	29	33	165	L148C-32	1.80
-210	33	38	29	33	210	L148C-32	1.90
BCA038-165	38	43	33	38	165	L148C-32	2.10
-210	38	43	33	38	210	L148C-32	2.50
BCA043-165	43	52	38	43	165	L148C-33	2.30
-210	43	52	38	43	210	L148C-33	2.80
BCA052-180	52	61	47	52	180	L148C-33	3.30
-240	52	61	47	52	240	L148C-33	4.30
BCA061-180	61	70	56	61	180	L148C-33	4.10
-240	61	70	56	61	240	L148C-33	5.20
BCA070-180	70	85	65	70	180	L148C-34	4.30
-240	70	85	65	70	240	L148C-34	5.80
BCA085-180	85	100	80	85	180	L148C-34	5.20
-240	85	100	80	85	240	L148C-34	6.90
BCA100-165	100	115	95	100	165	L148C-34	6.10
-240	100	115	95	100	240	L148C-34	7.50

Unit: mm

Micro Boring Holder

微調精搪刀桿



BCA

BT / NT series



- Boring head must be ordered separately.
- 精搪頭為另購品



Model No.	Boring Range		D	D1	L	Boring Head	Weight (kg)
	Min.	Max.					
BT50 BCA025-150	25	29	22	25	150	L148C-31	4.30
BCA026-150	26	30	23	26	150	L148C-31	4.30
-180	26	30	23	26	180	L148C-31	4.40
BCA030-160	30	34	26	30	160	L148C-31	4.40
-210	30	34	26	30	210	L148C-31	4.60
BCA033-165	33	38	29	33	165	L148C-32	4.50
-210	33	38	29	33	210	L148C-32	4.80
BCA038-165	38	43	33	38	165	L148C-32	4.70
-210	38	43	33	38	210	L148C-32	5.20
BCA043-165	43	52	38	43	165	L148C-33	5.00
-210	43	52	38	43	210	L148C-33	5.30
BCA052-180	52	61	47	52	180	L148C-33	5.60
-240	52	61	47	52	240	L148C-33	6.70
BCA061-180	61	70	56	61	180	L148C-33	6.60
-240	61	70	56	61	240	L148C-33	7.40
-330	61	70	56	61	330	L148C-33	9.40
BCA070-180	70	85	65	70	180	L148C-34	7.30
-240	70	85	65	70	240	L148C-34	9.00
-330	70	85	65	70	330	L148C-34	10.90
BCA085-180	85	100	80	85	180	L148C-34	8.30
-240	85	100	80	85	240	L148C-34	10.10
-330	85	100	80	85	330	L148C-34	12.00
BCA100-165	100	115	95	100	165	L148C-34	8.40
-240	100	115	95	100	240	L148C-34	10.60
-315	100	115	95	100	315	L148C-34	12.50
BCA115-165	115	130	110	115	165	L148C-34	8.60
-240	115	130	110	115	240	L148C-34	10.80
-315	115	130	110	115	315	L148C-34	12.70
BCA130-165	130	145	125	130	165	L148C-34	9.00
-240	130	145	125	130	240	L148C-34	10.50
BCA145-165	145	160	140	145	165	L148C-34	9.50
-240	145	160	140	145	240	L148C-34	11.00

Unit: mm

Square Micro Boring Holder

方型精搪刀桿



Model No.	Applicable Angle	L	L1	W	Boring Head
MBT16-L	30°, 45°, 90°	80, 130	30	16	L148C-31
MBT19/19.05-L	30°, 45°, 90°	100, 150, 200	30	19/19.05	L148C-31
MBT25/25.4-L	30°, 45°, 90°	100, 150, 200	30	25/25.4	L148C-31

Unit: mm

MBT



- Boring head must be ordered separately.
- 精搪頭為另購品

78

Ann Way

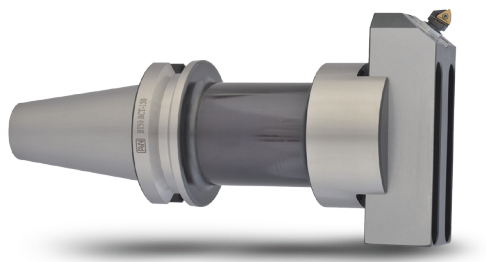


BT / NT
series

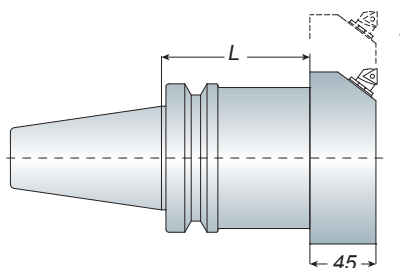
BCT

Large Micro Boring Holder with Slide Block

大孔徑滑板式精搪刀桿



- BCT boring block and boring head must be ordered separately.
- BCT 刀盤和精搪頭為另購品



Model No.	L	Weight (kg)
BT50 BCT100	100	6.50
BCT150	150	6.90
BCT200	200	9.50
BCT250	250	9.70
BCT300	300	10.70

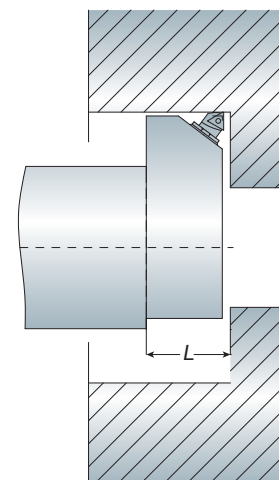
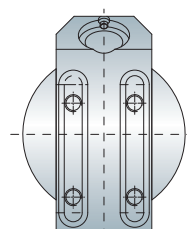
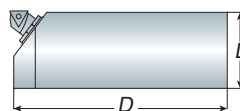
Unit: mm



- Boring head and insert must be ordered separately.
- 精搪頭和刀片為另購品

Boring Block

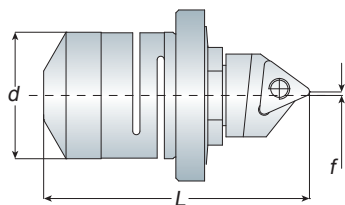
刀盤



P80-Find Boring Head

Model No.	Boring Range		D	L	Boring Head	Weight (kg)
	Min.	Max.				
BCT-100	115	145	100	45	L148C-33	1.30
BCT-125	140	180	125	45	L148C-33	1.60
BCT-150	165	205	150	45	L148C-33	2.00
BCT-175	190	230	175	45	L148C-33	2.20
BCT-200	215	260	200	45	L148C-33	2.70
BCT-225	240	280	225	45	L148C-33	3.20
BCT-250	265	325	250	45	L148C-33	3.40
BCT-300	315	385	300	45	L148C-33	7.60
BCT-350	365	435	350	45	L148C-33	8.90

Unit: mm

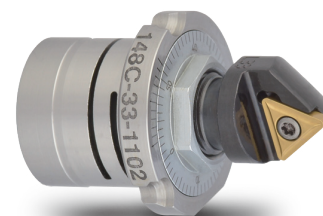


Fine Boring Head

精搪頭

R/L
148C

BT / NT
series



Model No.	d	L	f	D min	Screw	Insert	Weight (kg)
R/L 148C-31-0602	16	15.5	0.2	24.8	5513 020-03	CCMT060204	0.15
R/L 148C-32-0902	20	33.7	0.9	32.5	5513-020-05	TCMT090204	0.20
R/L 148C-33-1102	22	45.3	1.1	42.0	5513-020-03	TCMT110204	0.30
R/L 148C-34-16T3	32	62.3	1.2	59.4	5513-020-10	TCMT16T304	0.50

Unit: mm

Feature:

- Can be mounted in blind holes.
- Adjustment is made from the front.
- The unit is self-locking which means there is no need for unlocking or locking after setting.
- T-MAX-U screw clamping.
- Insert must be ordered separately.

特色：

- 能在盲孔內安裝
- 需從前端作調整
- 精搪頭有自鎖功能。在設置前無須解鎖且調整後也無需鎖定
- 精搪頭為螺絲鎖緊
- 刀片為另購品

- For working material, the inserts divides the most common used 3 types: 1. IRON: KC850, 2. CAST IRON: KC5010, 3. ALUM: KC313.
- When ordering, please specify the material code.
For example: CCMT060204 KC850
- 依加工材質，刀片可區分為三種：
1. 鐵：KC850，2. 鑄鐵：KC5010，3. 鋁：KC313
- 訂購時，請註明材質編號
例：CCMT060204 KC850

Adapter

轉接器

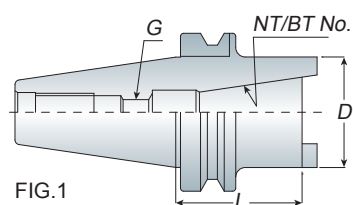


FIG.1

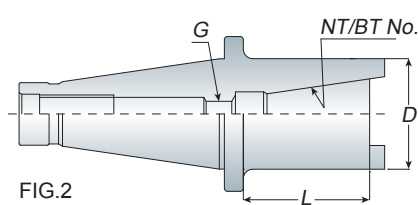
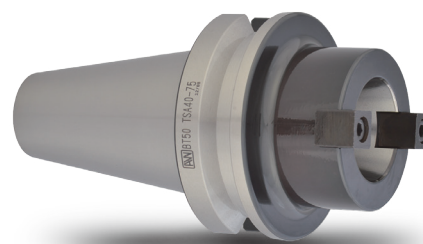


FIG.2

Model No.	FIG.	D	L	G	Draw Bolt	Weight (kg)
BT50 TSA40-075	1	70	75	M16x2.0P	-	4.50
NT40 TSA30-075	2	60	75	M12x1.75P	5/8"-11 M16x2.0P	2.00
NT50 TSA30-075	2	60	75	M12x1.75P	1"-8	3.00
TSA40-075	2	70	75	M16x2.0P	M24x3.0P	4.10

Unit: mm

TSA



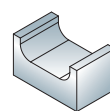
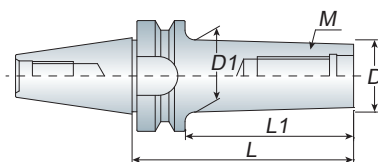
- Use the adapter to switch the taper shank.
- When ordering, please specify the draw bolt of NT shank with inch size or metric size.
- 使用轉接器作銼度轉換
- 請於訂購時，確認 NT 刀桿為英制或公制

BT / NT
series

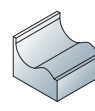
AMD

Screw-in Endmill Holder

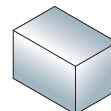
圓刀銑刀桿



R角加工



曲面加工



平面加工

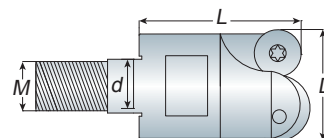
Model No.	M	D	D1	L1	L	Weight (kg)
BT40 AMD122-080	6	11	12	53	80	1.10
-100	6	11	12	73	100	1.20
AMD123-080	6	11	12	53	80	1.20
AMD162-080	8	13	16	53	80	1.20
-100	8	13	16	73	100	1.30
AMD202-080	10	18	20	53	80	1.20
-100	10	18	20	73	100	1.30
AMD253-080	12	21	25	53	80	1.30
-100	12	21	25	73	100	1.40
AMD354-080	16	29	35	53	80	1.40
-100	16	29	35	73	100	1.60
BT50 AMD122-100	6	11	12	62	100	4.00
-120	6	11	12	82	120	4.10
AMD162-100	8	13	16	62	100	4.00
-120	8	13	16	82	120	4.10
AMD202-100	10	18	20	62	100	4.10
-120	10	18	20	82	120	4.20
AMD253-100	12	21	25	62	100	4.10
-120	12	21	25	82	120	4.20
AMD354-100	16	29	35	62	100	4.20
-120	16	29	35	82	120	4.30

Unit: mm

RD

Corner Rounding End Mills

圓刀銑刀



Model No.	Dimension				Teeth	Insert	Screw	Clamp	Screw	Wrench
	d	D	M	L						
RD051-D123-MD11-18	6.5	12	6	18	3	RD..0501..	MS2005A	-	-	T6
RD072-D162-MD14-23	8.5	16	8	23	2	RD..0702..	MS2506B	-	-	T9
RD072-D172-MD14-23	8.5	17	8	23	2					
RD072-D203-MD18-30	10.5	20	10	30	3					
RD072-D213-MD18-30	10.5	21	10	30	3					
RD072-D254-MD23-35	12.5	25	12	35	4					
RD072-D264-MD23-35	12.5	26	12	35	4	RD..1003..	MS3507A	-	-	T15
RD072-D356-MD29-43	17	35	16	43	6					
RD103-D202-MD18-30	10.5	20	10	30	2					
RD103-D212-MD18-30	10.5	21	10	30	2	RD..1003..	MS3507A	-	-	T15
RD103-D253-MD23-35	12.5	25	12	35	3					
RD103-D263-MD23-35	12.5	26	12	35	3					
RD103-D354-MD29-43	17	35	16	43	4	RD..1003..	MS3507A	MC35141	MS3509A	T15

Unit: mm



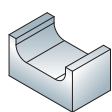
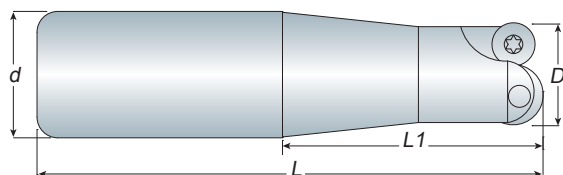
P83- Inserts

Corner Rounding End Mills

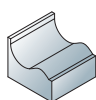
圓刀銑刀

RD

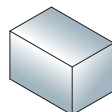
BT / NT
series



R角加工



曲面加工



平面加工



P83- Inserts

Model No.	Dimension				Teeth	Insert	Screw	Wrench
	d	D	L	L1				
RD051-D092-S08-100	8	9	100	12	2	RD..0501..	MS2004A	T6
RD051-D102-S10-100	10	10	100	18	2			
RD051-D112-S10-100	10	11	100	15	2			
RD051-D122-S12-100	12	12	100	22	2	RD..0501..	MS2005A	T6
RD051-D123-S12-100	12	12	100	22	3			
RD051-D132-S12-100	12	13	100	18	2			
RD051-D133-S12-100	12	13	100	18	3			
RD051-D164-S16-150	16	16	150	30	4	RD..0501..	MS2005A	T6
RD051-D164-S16-200	16	16	200	30	4			
RD051-D174-S16-150	16	17	150	20	4			
RD051-D174-S16-200	16	17	200	20	4			
RD072-D162-S16-150	16	16	150	35	2	RD..0702..	MS2506B	T9
RD072-D162-S16-200	16	16	200	35	2			
RD072-D172-S16-150	16	17	150	20	2			
RD072-D172-S16-200	16	17	200	20	2			
RD072-D203-S20-150	20	20	150	35	3			
RD072-D203-S20-200	20	20	200	35	3			
RD072-D213-S20-150	20	21	150	25	3			
RD072-D213-S20-200	20	21	200	25	3			
RD072-D254-S25-150	25	25	150	40	4			
RD072-D254-S25-200	25	25	200	40	4			
RD072-D254-S25-250	25	25	250	40	4			
RD072-D254-S25-300	25	25	300	40	4			
RD072-D255-S25-150	25	25	150	40	5			
RD072-D255-S25-200	25	25	200	40	5			
RD072-D255-S25-250	25	25	250	40	5			
RD072-D255-S25-300	25	25	300	40	5			
RD072-D264-S25-150	25	26	150	25	4			
RD072-D264-S25-200	25	26	200	25	4			
RD072-D264-S25-250	25	26	250	25	4			
RD072-D264-S25-300	25	26	300	25	4			
RD072-D265-S25-150	25	26	150	25	5			
RD072-D265-S25-200	25	26	200	25	5			
RD072-D265-S25-250	25	26	250	25	5			
RD072-D265-S25-300	25	26	300	25	5			

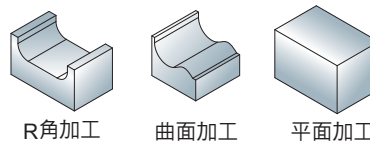
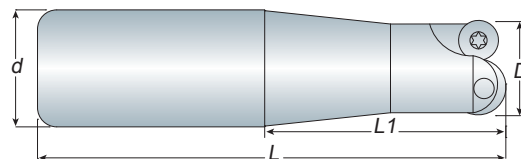
Unit: mm

BT / NT
series

RD

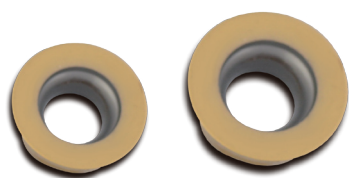
Corner Rounding End Mills

圓刀銑刀



Model No.	Dimension				Teeth	Insert	Screw	Clamp	Screw	Wrench
	d	D	L	L1						
RD103-D202-S20-150	20	20	150	40	2	RD..1003..	MS3507A	-	-	T15
RD103-D202-S20-200	20	20	200	40	2					
RD103-D212-S20-150	20	21	150	25	2					
RD103-D212-S20-200	20	21	200	25	2					
RD103-D253-S25-150	25	25	150	40	3					
RD103-D253-S25-200	25	25	200	40	3					
RD103-D253-S25-250	25	25	250	40	3					
RD103-D263-S25-150	25	26	150	25	3					
RD103-D263-S25-200	25	26	200	25	3	RD..1003..	MS3509B	-	-	T15
RD103-D263-S25-250	25	26	250	25	3					
RD103-D263-S25-300	25	26	300	25	3					
RD103-D303-S25-150	25	30	150	25	3	RD..1003..	MS3509B	-	-	T15
RD103-D303-S25-200	25	30	200	25	3					
RD103-D303-S25-250	25	30	250	25	3					
RD103-D354-S32-150	32	35	150	40	4	RD..1003..	MS3509B	MC35141	MC3509A	T15
RD103-D354-S32-200	32	35	200	40	4					
RD103-D354-S32-250	32	35	250	40	4					
RD103-D354-S32-300	32	35	300	40	4					

Unit: mm



- Safety Insert recommended.

Inserts For Corner Rounding End Mills

刀片 - RD 圓刀銑刀適用

Safety	Model No.	Dimension			
		D	S	d1	d2
	RDHW0501 MO EN-91	5.0	1.50	2.2	-
	RDMW0702 MO EN	7.0	2.38	2.8	3.8
	RDMW1003 MO SN-F6	10.0	3.18	4.4	6.2

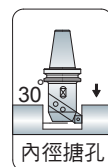
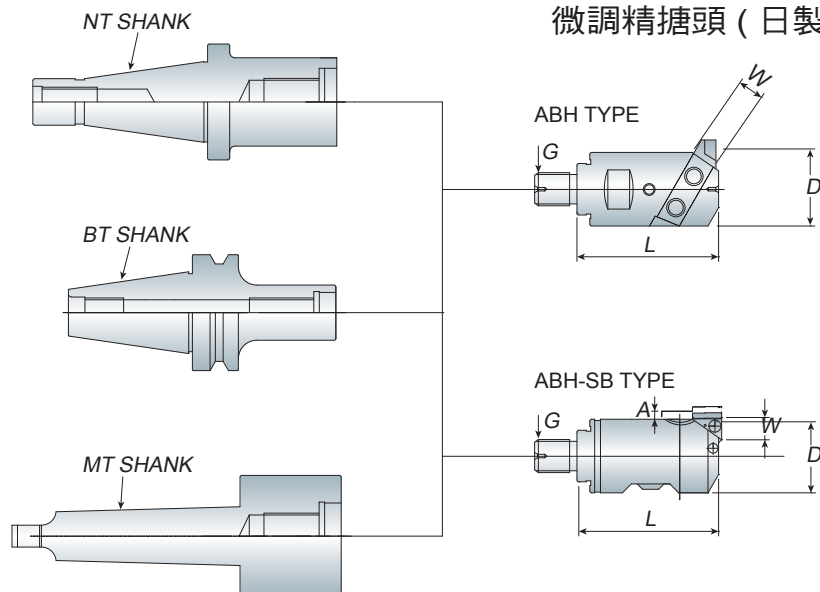
Unit: mm

Fine Boring Head (KKS)

微調精搪頭 (日製)

ABH

BT / NT series



- Throw away boring cutter must be ordered separately.
- Fine boring head is made in Japan(KKS).
- ABH18 / ABH23 / ABH30 / ABH40 adjust graduation: 0.05mm
- ABH63 / ABH83 adjust graduation: 0.01mm
- 捨棄式搪刀架為另購品
- ABH 精搪頭為日製 (KKS)
- ABH18 / ABH23 / ABH30 / ABH40 調整刻度 : 0.05mm
- ABH63 / ABH83 調整刻度 : 0.01mm

ABH Type

Model No.	Boring Range		D	L	W	G	Weight (kg)
	Min.	Max.					
ABH18(Fine)	22	32	18	50	6	M10x1.5P	0.20
ABH23(Fine)	28	46	23	65	8	M12x1.75P	0.30
ABH30(Fine)	36	60	30	80	10	M16x2.0P	0.50
ABH40(Fine)	46	80	40	90	13	M18x2.5P	1.00
ABH63(Fine)	70	130	63	97	16	M25x2.0P	2.30
ABH83(Fine)	90	160	83	100	16	-	4.00

Unit: mm

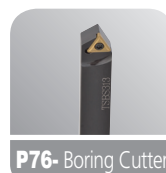
ABH-SB Type

Model No.	Boring Range		A	D	L	W	G	Insert	Weight (kg)
	Min.	Max.							
ABH-SB18(Fine)	20	25	2.5	18	40	8.2	M10x1.5P		0.20
ABH-SB23(Fine)	25	32	3.5	23	50		M12x1.75P	TPGX08	0.30
ABH-SB30(Fine)	32	42	5	30	60		M16x2.0P	or	0.40
ABH-SB40(Fine)	42	55	6.5	40	70		M18x2.5P	TPGT08	1.00
ABH-SB50(Fine)	55	73	9	50	72		M22x2.5P		1.80

Unit: mm



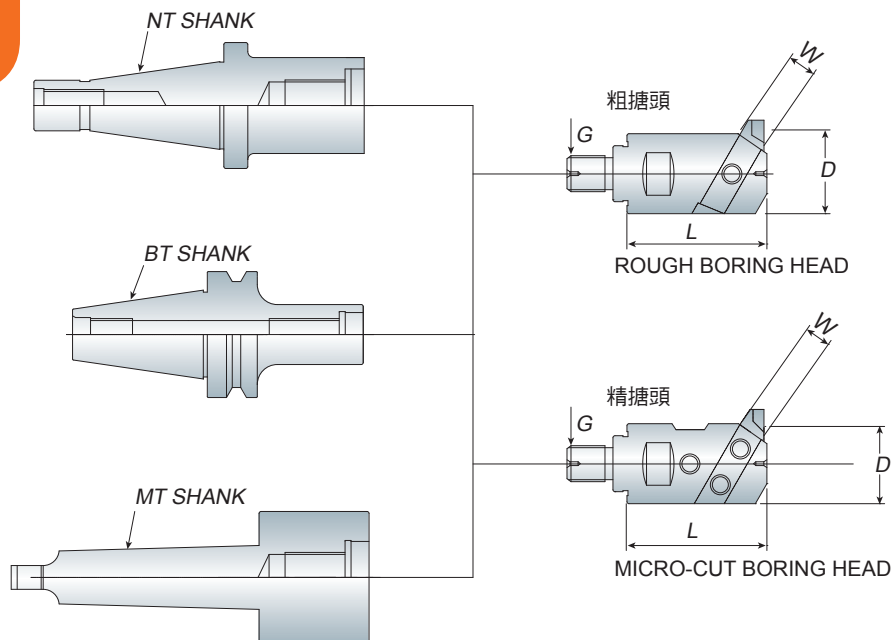
- ABH-SB fine boring head is coolant type.
- Fine boring head is made in Japan(KKS).
- Adjust graduation: 0.01mm
- ABH-SB 精搪頭具有中心出水功能
- ABH-SB 精搪頭為日製 (KKS)
- 調整刻度 : 0.01mm



P76- Boring Cutter

BT / NT series

ABH



Rough Boring Head (Taiwan)

粗搪頭 (台製)

- Throw away boring cutter must be ordered separately.
- Rough boring head is made in Taiwan.
- 捨棄式搪刀架為另購品
- ABH 粗搪頭為台製

Model No.	Boring Range		D	L	W	G	Weight (kg)
	Min.	Max.					
ABH18(Rough-T)	-	32	18	50	6	M10x1.5P	0.20
ABH23(Rough-T)	28	46	23	65	8	M12x1.75P	0.30
ABH30(Rough-T)	36	60	30	80	10	M16x2.0P	0.50
ABH40(Rough-T)	46	80	40	90	13	M18x2.5P	1.10
ABH63(Rough-T)	70	130	63	97	16	M25x2.0P	2.30
ABH83(Rough-T)	90	160	83	100	16	-	4.00

Unit: mm



Fine Boring Head (Taiwan)

微調精搪頭 (台製)

- Throw away boring cutter must be ordered separately.
- Fine boring head is made in Taiwan.
- Adjust graduation: 0.05mm
- 捨棄式搪刀架為另購品
- ABH 精搪頭為台製
- 調整刻度 : 0.05mm

Model No.	Boring Range		D	L	W	G	Weight (kg)
	Min.	Max.					
ABH18(Fine-T)	-	32	18	50	6	M10x1.5P	0.40
ABH23(Fine-T)	28	46	23	65	8	M12x1.75P	0.50
ABH30(Fine-T)	36	60	30	80	10	M16x2.0P	0.70
ABH40(Fine-T)	46	80	40	90	13	M18x2.5P	1.40
ABH63(Fine-T)	70	130	63	97	16	M25x2.0P	2.80

Unit: mm



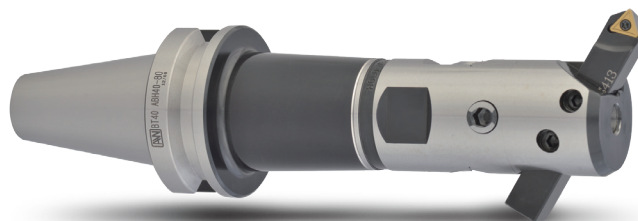
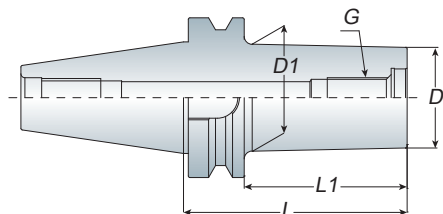
P76- Boring Cutter

Micro Boring Holder

微調精搪刀桿

ABH

BT / NT

series


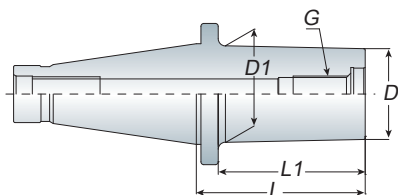
Features

- ABH (Rough or Fine) / ABH-SB (Fine) boring head must be ordered separately.
- ABH (粗 / 精搪頭) / ABH-SB 精搪頭為另購品



Model No.	Boring Range		D	D1	L1	L	G	Weight (kg)
	Min.	Max.						
BT30 ABH18-060	22	32	18	24	40	60	M10x1.5P	0.60
-100	22	32	18	24	80	100	M10x1.5P	0.70
ABH23-080	28	46	23	29	60	80	M12x1.75P	0.60
-120	28	46	23	29	100	120	M12x1.75P	0.80
ABH30-080	36	60	30	36	60	80	M16x2.0P	0.80
-130	36	60	30	36	110	130	M16x2.0P	1.10
ABH40-080	46	80	40	48	60	80	M18x2.5P	1.00
-150	46	80	40	48	130	150	M18x2.5P	1.40
ABH63-080	70	130	63	63	60	80	M25x2.0P	1.60
-150	70	130	63	63	130	150	M25x2.0P	2.10
BT40 ABH18-060	22	32	18	24	35	60	M10x1.5P	1.20
-080/100	22	32	18	24	55/75	80/100	M10x1.5P	1.30/1.40
ABH23-080	28	46	23	29	55	80	M12x1.75P	1.30
-120	28	46	23	29	95	120	M12x1.75P	1.50
ABH30-080	36	60	30	36	55	80	M16x2.0P	1.40
-105/130	36	60	30	36	80/105	105/130	M16x2.0P	1.50/1.60
ABH40-080	46	80	40	48	55	80	M18x2.5P	1.50
-105	46	80	40	48	80	105	M18x2.5P	1.90
-125/150	46	80	40	48	100/125	125/150	M18x2.5P	2.10/2.40
ABH-SB50-080	55	73	53	53	55	80	M22x2.5P	1.80
-105/130	55	73	53	53	80/105	105/130	M22x2.5P	2.20/2.60
ABH63-080	70	130	63	63	55	80	M25x2.0P	2.20
-105/150	70	130	63	63	80/125	105/150	M25x2.0P	2.90/3.70
BT50 ABH18-080	22	32	18	24	45	80	M10x1.5P	4.00
-120	22	32	18	24	85	120	M10x1.5P	4.20
ABH23-080	28	46	23	29	45	80	M12x1.75P	3.90
-120	28	46	23	29	85	120	M12x1.75P	4.20
ABH30-080	36	60	30	36	45	80	M16x2.0P	4.10
-105/130	36	60	30	36	70/95	105/130	M16x2.0P	4.20/4.40
ABH40-080	46	80	40	48	45	80	M18x2.5P	4.20
-105/125	46	80	40	48	70/90	105/125	M18x2.5P	4.40/4.80
-150/180	46	80	40	48	115/145	150/180	M18x2.5P	5.20/5.40
ABH-SB50-080	55	73	53	53	45	80	M22x2.5P	4.50
-105/125	55	73	53	53	70/90	105/125	M22x2.5P	4.90/5.10
-150/180	55	73	53	53	115/145	150/180	M22x2.5P	5.70/6.00
ABH63-080	70	130	63	63	45	80	M25x2.0P	4.50
-105	70	130	63	68	70	105	M25x2.0P	5.30
-150/180	70	130	63	68	115/150	150/180	M25x2.0P	6.70/7.50
-200/230	70	130	63	68	165/195	200/230	M25x2.0P	8.00/8.40
ABH83-080	90	160	83	83	45	80	-	4.80
-105	90	160	83	58	70	105	-	5.80
-150/210	90	160	83	63/83	115/175	150/210	-	6.30/6.90

Unit: mm



Features

- ABH (Rough or Fine) / ABH-SB (Fine) boring head must be ordered separately.
- When ordering, please specify the draw bolt with inch size or metric size.
- ABH (粗 / 精搪頭) / ABH-SB 精搪頭為另購品
- 請於訂購時，確認刀桿為英制或公制



P84/85- Boring Head

Model No.	Boring Range		D	D1	L	L1	G	Draw Bolt
	Min.	Max.						
NT30 ABH18-060	22	32	18	24	76	60	M10x1.5P	1/2"-12 M12x1.75P
ABH18-100	22	32	18	24	116	100	M10x1.5P	
ABH23-080	28	46	23	29	96	80	M12x1.75P	
-120	28	46	23	29	136	120	M12x1.75P	
ABH30-080	36	60	30	36	96	80	M16x2.0P	
-130	36	60	30	36	146	130	M16x2.0P	
ABH40-080	46	80	40	48	96	80	M18x2.5P	
-150	46	80	40	48	166	150	M18x2.5P	
ABH63-080	70	130	63	-	96	80	M25x2.0P	
-150	70	130	63	-	166	150	M25x2.0P	
NT40 ABH18-060	22	32	18	24	76	60	M10x1.5P	5/8"-11 M16x2.0P
-100	22	32	18	24	116	100	M10x1.5P	
ABH23-080	28	46	23	29	96	80	M12x1.75P	
-120	28	46	23	29	136	120	M12x1.75P	
ABH30-080	36	60	30	36	96	80	M16x2.0P	
-130	36	60	30	36	146	130	M16x2.0P	
ABH40-080	46	80	40	48	96	80	M18x2.5P	
-150	46	80	40	48	166	150	M18x2.5P	
ABH63-080	70	130	63	63	96	80	M25x2.0P	
-150	70	130	63	63	166	150	M25x2.0P	
NT50 ABH18-060	22	32	18	24	96	60	M10x1.5P	1"-8 M24x3.0P
-100	22	32	18	24	136	100	M10x1.5P	
ABH23-080	28	46	23	29	96	80	M12x1.75P	
-120	28	46	23	29	136	120	M12x1.75P	
ABH30-080	36	60	30	36	96	80	M16x2.0P	
-130	36	60	30	36	146	130	M16x2.0P	
ABH40-080	46	80	40	48	96	80	M18x2.5P	
-150	46	80	40	48	166	150	M18x2.5P	
-220	46	80	40	48	236	220	M18x2.5P	
ABH63-080	70	130	63	68	96	80	M25x2.0P	
-150	70	130	63	68	166	150	M25x2.0P	
-230	70	130	63	68	246	230	M25x2.0P	
ABH83-080	90	160	83	68	96	80	-	
-130	90	160	83	70	146	130	-	
-200	90	160	83	-	216	200	-	

Unit: mm

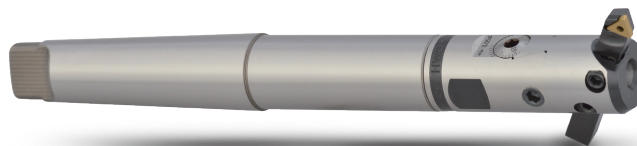
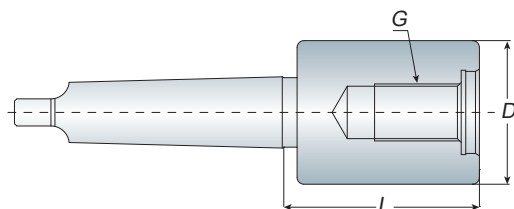
Micro Boring Holder

微調精搪刀桿

ABH

BT / NT

series



Features

- ABH (Rough or Fine) / ABH-SB (Fine) boring head must be ordered separately.
- ABH (粗 / 精搪頭) / ABH-SB 精搪頭為另購品



Model No.	Boring Range		D	L	G
	Min.	Max.			
MTA4 ABH18-060	22	32	18	60	M10x1.5P
-100	22	32	18	100	M10x1.5P
ABH23-080	28	46	23	80	M12x1.75P
-120	28	46	23	120	M12x1.75P
ABH30-080	36	60	30	80	M16x2.0P
-130	36	60	30	130	M16x2.0P
ABH40-080	46	80	40	80	M18x2.5P
-150	46	80	40	150	M18x2.5P
ABH63-080	70	130	63	80	M25x2.0P
-150	70	130	63	150	M25x2.0P
MTA5 ABH18-080	22	32	18	80	M10x1.5P
-120	22	32	18	120	M10x1.5P
ABH23-080	28	46	23	80	M12x1.75P
-120	28	46	23	120	M12x1.75P
ABH30-080	36	60	30	80	M16x2.0P
-130	36	60	30	130	M16x2.0P
ABH40-080	46	80	40	80	M18x2.5P
-150	46	80	40	150	M18x2.5P
-220	46	80	40	220	M18x2.5P
ABH63-080	70	130	63	80	M25x2.0P
-150	70	130	63	150	M25x2.0P
-230	70	130	63	230	M25x2.0P
ABH83-050	90	160	83	50	-
-130	90	160	83	130	-
-200	90	160	83	200	-
MTA6 ABH18-080	22	32	18	80	M10x1.5P
-120	22	32	18	120	M10x1.5P
ABH23-080	28	46	23	80	M12x1.75P
-120	28	46	23	120	M12x1.75P
ABH30-080	36	60	30	80	M16x2.0P
-130	36	60	30	130	M16x2.0P
ABH40-080	46	80	40	80	M18x2.5P
-150	46	80	40	150	M18x2.5P
-220	46	80	40	220	M18x2.5P
ABH63-080	70	130	63	80	M25x2.0P
-150	70	130	63	150	M25x2.0P
-230	70	130	63	230	M25x2.0P
ABH83-080	90	160	83	80	-
-130	90	160	83	130	-
-200	90	160	83	200	-

Unit: mm

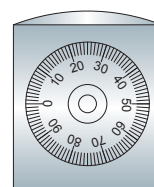
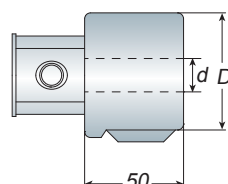
BT / NT series

ABJ

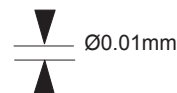


Modular Micro Boring Head

小徑微調搪孔頭



Adjust graduation



0.01mm

- ABJ modular micro boring system includes 3 types boring range: 1. ABJ10: 6 ~ 25mm 2. ABJ12: 6 ~ 32mm 3. ABJ16: 6 ~ 50mm
- ABJ could use 3 types boring bar: BJ10B, BJ12B and BJ16
- ABJ boring holder and boring bar must be ordered separately. => refer to P.90
- ABJ 微調搪孔範圍可分為三種 1. ABJ10: 6 ~ 25mm 2. ABJ12: 6 ~ 32mm 3. ABJ16: 6 ~ 50mm
- ABJ 搪刀分為三種規格：BJ10B，BJ12B 以及 BJ16.
- ABJ 搪孔刀桿及搪刀為另購品 => 請參考 P.90

Model No.	Boring Range	d	D	L	Boring Holder Type	Adapter	Weight (kg)
ABJ10	6~25	10	39	29	BT40 ACK4-080 BT50 ACK4-115	ACK4	0.4
ABJ12	6~32	12	50	36	BT40 ACK5-080 BT50 ACK5-090	ACK5	0.6
ABJ16	6~50	16	64	45	BT40 ACK6-055 BT50 ACK6-065	ACK6	1.2

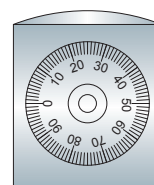
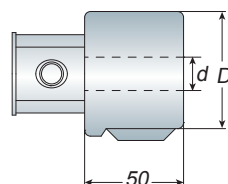
Unit: mm

NBJ16

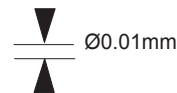


Micro Boring Head

微調搪孔頭



Adjust graduation

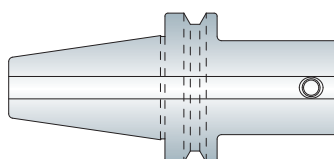


0.01mm

- NBJ16 micro boring system which boring range is from 6 ~ 50mm.
- NBJ16 boring head can match BM1625 series which can extend boring range to 68mm (6 ~ 68mm) for optional. => refer to P.93
- NBJ16 boring holder and boring bar must be ordered separately. => refer to P.90
- NBJ16 微調搪孔系統：搪孔範圍 6 ~ 50mm
- NBJ16 搪孔刀頭可另選配 BM1625 系列，使其搪孔範圍延展至 68mm (6 ~ 68mm) => 請參考 P.93
- NBJ16 搪孔刀桿及搪刀為另購品 => 請參考 P.90

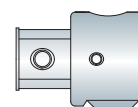
Model No.	Boring Range	d	D	Boring Holder Type	Draw Bolt	Weight (kg)
NBJ16	6~50	16	63	BT40 NBJ16-055	-	1.30
				BT50 NBJ16-065	-	
				BT50 NBJ16-085	-	
				NT40 NBJ16 NT50 NBJ16	5/8" -11/M16x2.0P 1" -8 / M24x3.0P	

Unit: mm



ACK Holder

+

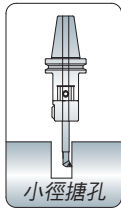


ABJ / NBJ16 Boring Head

+



Boring Bar



10B / 12B / 16 Boring Bar / Boring Bar Set

搪刀 / 搪刀組

BJ

BT / NT
series

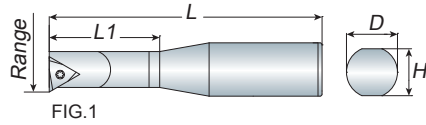


FIG.1

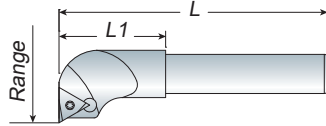


FIG.2



Model No.	Dimension					Insert 	Screw 	Wrench 	Weight (kg)
	D	Range	L	L1	H				
BJ10B06-24	10	6~8	64	24	9	TBGT0601..L	MS2005A	T6	0.03
BJ10B08-32		8~10	64	32					0.03
BJ10B10-40		10~12	72	40					0.04
BJ10B12-45		12~16	77	22		TPGH0902..L	MS2506A	T9	0.04
BJ10B16-45		16~20	77	22					0.05
BJ10B20-45		20~25	77	25					0.05
BJ10B-6PCS/SET	BJ10B06-24,BJ10B08-32, BJ10B10-40, BJ10B12-45, BJ10B16-45, BJ10B20-45								0.60

Unit: mm

Model No.	Dimension								Weight (kg)
	D	Range	L	L1	H				
BJ12B06-24	12	6~8	64	24	11	TBGT0601..L	MS2005A	T6	0.03
BJ12B08-32		8~10	64	32					0.03
BJ12B10-40		10~12	72	40					0.05
BJ12B12-45		12~16	77	45		TPGH0902..L	MS2506A	T9	0.05
BJ12B16-45		16~20	77	22					0.06
BJ12B20-45		20~25	77	25					0.06
BJ12B25-45		25~32	77	25		TPGH1103..L	MS3008A	T9	0.07
BJ12B-7PCS/SET	BJ12B06-24, BJ12B08-32, BJ12B10-40, BJ12B12-45, BJ12B16-45, BJ12B20-45, BJ12B25-45								0.70

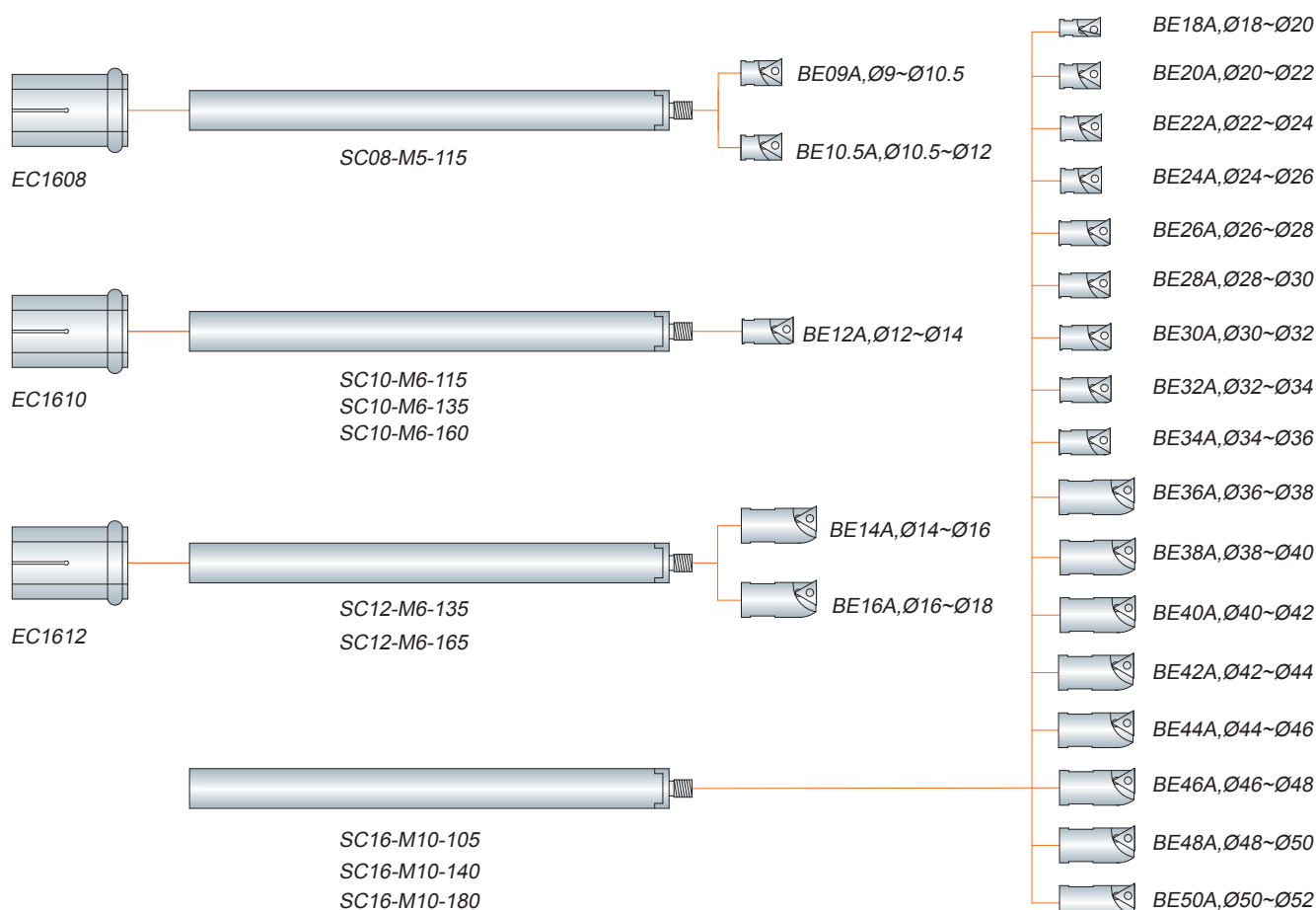
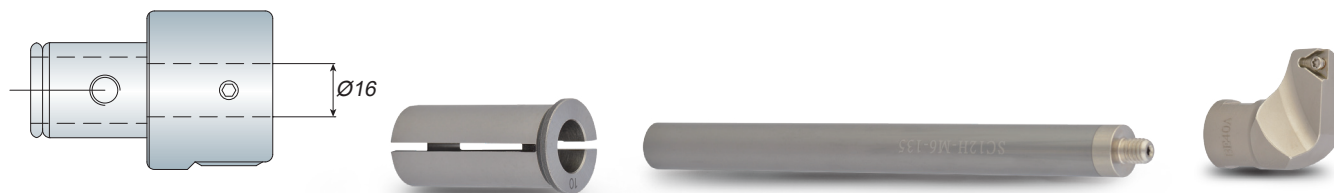
Unit: mm



Model No.	Dimension					Insert 	Screw 	Wrench 	Weight (kg)
	D	Range	L	L1	H				
BJ1606-24	16	6~8	68	24	15	WBGTO601..L	MS2005A	T6	0.15
BJ1608-32		8~10	74	32		TBGT0601..L	MS2005A	T6	0.15
BJ1610-40		10~12	75	40					0.15
BJ1612-53		12~16	85	53		TPGH0902..L	MS2506A	T9	0.15
BJ1614-60		14~16	103	60					0.20
BJ1616-68		16~20	100	68					0.20
BJ1620-83		20~25	115	35		TPGH1103..L	MS3008A	T9	0.20
BJ1625-90		25~30	122	35					0.25
BJ1630-90		30~40	122	40					0.25
BJ1635-90		35~40	122	40					0.25
BJ1640-90	40~50	122	40	0.25					
BJ1645-90	45~50	122	40	0.25					
BJ16-8PCS/SET	BJ1608-32, BJ1610-40, BJ1612-53, BJ1616-68, BJ1620-83, BJ1625-90, BJ1630-90, BJ1640-90								1.90

Unit: mm

- The insert must be ordered separately.
- The boring bar that could be contact with the other size boring head, collet and carbide holder.
=> refer to P.91
- 刀片為另購品
- 搪孔刀桿可另外選購搪孔頭、套筒及錫鋼柄搪刀桿使用
=> 請參考 P.91



- For the detail size and info, please refer P.92.
- 詳細規格及資料，請參考 P.92

Boring Head / Spare Parts

搪孔刀頭 / 配件

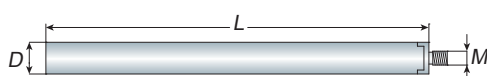
ABJ
NBJ

BT / NT
series

Collet

Model No.	Dimension		Carbide Holder
	d	D	
EC1608	8	16	SC08-M05...
EC1610	10	16	SC10-M06...
EC1612	12	16	SC12-M06...

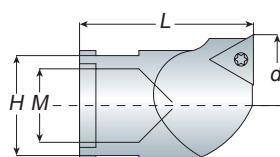
Unit: mm



Carbide Holder

Model No.	Dimension			Boring Head	Collet
	D	L	M		
SC08-M05-115	8	115	M05	BE09A, BE10.5A	EC1608
SC10-M06-115	10	115	M06	BE12A	EC1610
SC10-M06-135		135			
SC10-M06-160		160			
SC12-M06-135	12	135	M06	BE14A, BE16A	EC1612
SC12-M06-165		165			
SC16-M10-105	16	105	M10	BE18A~BE50A	-
SC16-M10-140		140			
SC16-M10-180		180			

Unit: mm



Boring Head

Model No.	Dimension					Insert	Screw	Wrench
	d	L	H	M	Range			
BE09A	9	18	7	M05	9~10.5	TP.. 0802..	MS2206A	T7
BE10.5A	10.5				10.5~12			
BE12A	12	23	8	M06	12~14			
BE14A	14		10		14~16			
BE16A	16		10		16~18			
BE18A	18	27	14	M10	18~20			
BE20A	20				20~22			
BE22A	22				22~24			
BE24A	24				24~26			
BE26A	26				26~28			
BE28A	28				28~30			
BE30A	30				30~32			
BE32A	32				32~34			
BE34A	34				34~36			
BE36A	36				36~38			
BE38A	38				38~40			
BE40A	40				40~42			
BE42A	42				42~44			
BE44A	44				44~46			
BE46A	46				46~48			
BE48A	48				48~50			
BE50A	50				50~52			

Unit: mm



BT / NT
series

ABJ
NBJ

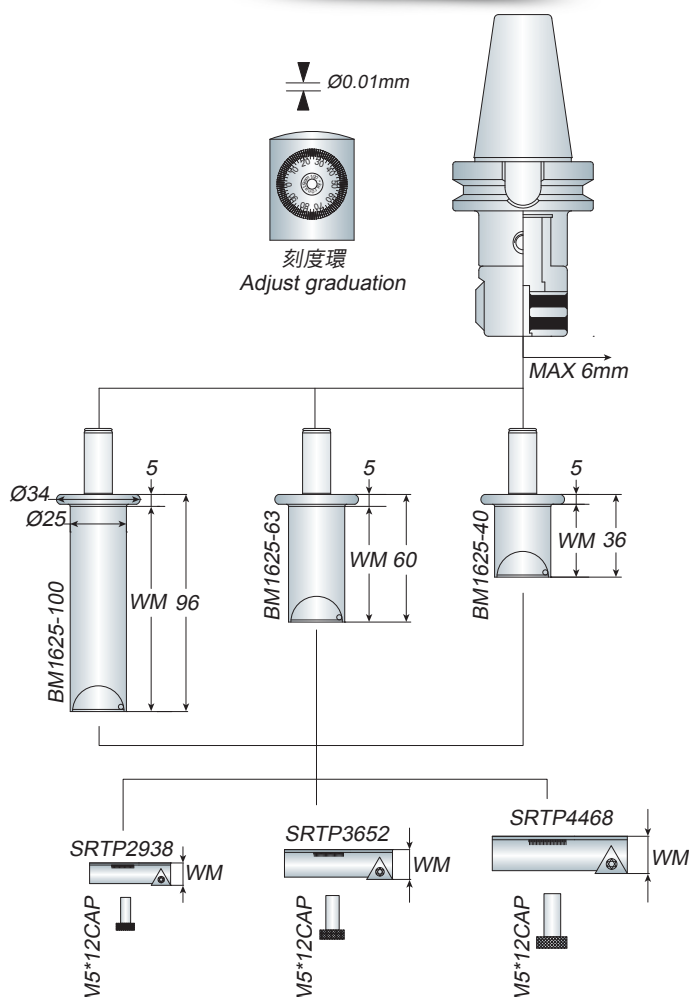
BM1625 Micro Boring Holder

BM1625 精搪刀桿



Features

- BM1625 micro boring holder matches with ABJ/ NBJ boring head.
- The boring range of BM1625 boring holder is from 29 ~ 68mm.
- BM1625 精搪刀桿運用於 ABJ / NBJ 刀頭
- BM1625 精搪範圍為 29 ~ 68mm

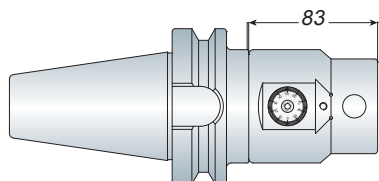


Model No.	Boring Range (ØMin.~ØMax.)	WM	Weight (kg)
BM1625-40	-	28	0.30
BM1625-63	-	52	0.40
BM1625-100	-	88	0.60
SRTP2938	29~38	10	0.02
SRTP3652	36~52	12	0.03
SRTP4468	44~68	12	0.05

Unit: mm

NBH2084 Micro Boring System

NBH2084 微調搪孔系統



NBH

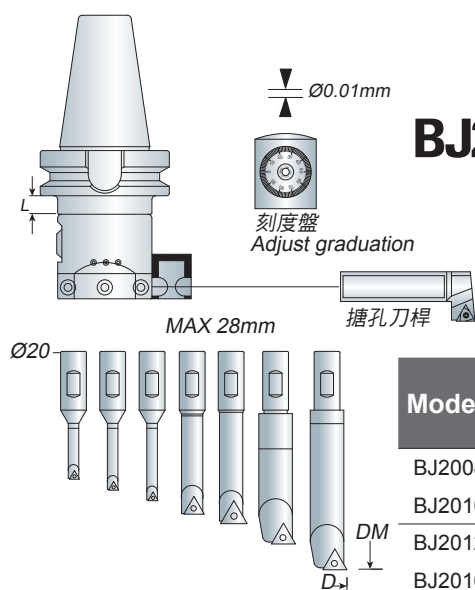
BT / NT
series



Model No.	Boring Range	Holder	Draw Bolt	Weight (kg)
BT40 NBH2084/SET	8~280	BT40 NBH2084	-	7.00
BT50 NBH2084/SET	8~280	BT50 NBH2084	-	9.50
NT30 NBH2084/SET	8~280	NT30 NBH2084	1/2"-12 M12x1.75P	6.00
NT40 NBH2084/SET	8~280	NT40 NBH2084	5/8"-11 M16x2.0P	6.35
NT50 NBH2084/SET	8~280	NT50 NBH2084	1"-8 M24x3.0P	8.90
MTA4 NBH2084/SET	8~280	MTA4 NBH2084	-	6.80
MTA5 NBH2084/SET	8~280	MTA5 NBH2084	-	7.40

Unit: mm

- NBH2084 micro boring system which boring range is from 8 ~ 280mm.
- NBH2084 tool holder set is attached 3pcs of BJ20 boring bars which are according to your request to choice.
- NBH2084 微調搪孔系統：
搪孔範圍 8 ~ 280mm
- NBH2084 搪孔組均附 3 支搪孔刀桿，
其尺寸可依需求選擇



BJ20 Boring Bar Set

BJ20 搪刀組



Model No.	Boring Range (D Min.~D Max.)	Dimension (DM)	Insert	Screw	Wrench	Weight (kg)
BJ2008-32	8~11	32	TBGT0601..L	MS2005A	T6	0.15
BJ2010-40	10~13	40				0.15
BJ2012-53	12~17	53	TPGH0902..L	MS2506A	T9	0.15
BJ2016-68	16~21	68				0.20
BJ2020-83	20~130	83				0.25
BJ2025-96	25~135	96				0.35
BJ2030-115	30~140	115				0.40
BJ20-20L	120~280	83 + L				0.30

Unit: mm

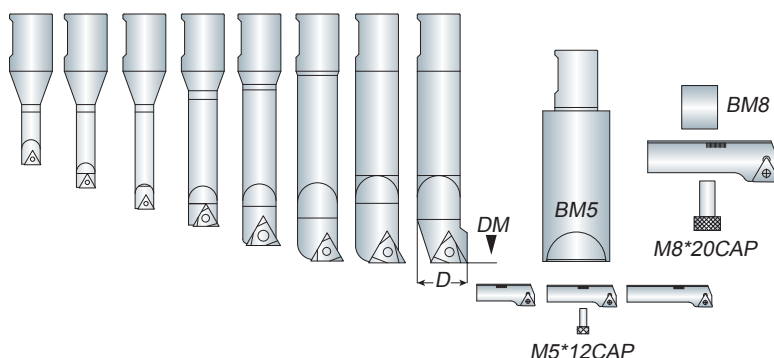
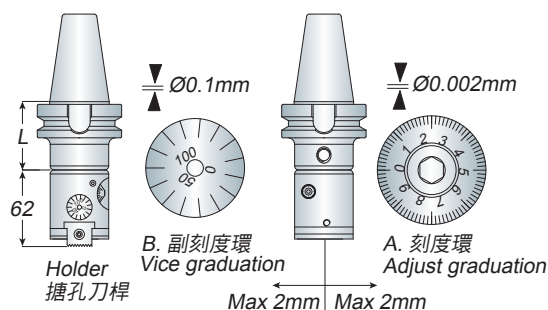
- Insert must be ordered separately.
- 刀片為另購品

BT / NT
series

HBOR

HBOR50 Micro Boring System

HBOR50 微調搪孔系統組



Features

- HBOR50 micro boring system which boring range is from 6 ~ 90mm.
- The inside diameter of HBOR50 micro boring system is 16mm.
- Insert must be ordered separately.
- HBOR50 微調搪孔系統組：搪孔範圍 6 ~ 90mm
- HBOR50 微調搪孔本體中的內孔為 16mm
- 刀片為另購品

Model No.	Boring Range	Holder	L	Weight (kg)
BT30 HBOR50/SET	6~90	BT30 ACK5-045	45	8.00
BT40 HBOR50/SET	6~90	BT40 ACK5-050	50	8.80
BT50 HBOR50/SET	6~90	BT50 ACK5-065	65	12.70

Unit: mm

Model No.	Boring Range (D Min.~D Max.)	Dimension (DM)	Insert	Screw	Wrench	Weight (kg)
BR1606-21	6~9	21	WBGTO601..L	SB-1STR-M2	T6	0.10
BR1608-28	8~11	28	TBGT0601..L	SB-1STR-M2	T6	0.10
BR1610-35	10~13	35				0.10
BR1612-42	12~15	42	TPGH0902..L	SB-2TR-M2.5	T8	0.10
BR1614-50	14~17	50				0.15
BR1616-60	16~20	60				0.15
BR1620-65	20~24	65	TPGH1103..L	SB-3TR-M3	T8	0.20
BR1624-68	24~28	68				0.20
BM5	60 + SRTP2938 or SRTP3652 or SRTP4468			M5x12CAP	◇4	0.40
SRTP2938	29~38	+10				0.03
SRTP3652	36~52	+12	TPGH0902..L	SB-2TR-M2.5	T8	0.05
SRTP4468	44~68	+12				0.05
BM8	+ SRTP5790			M8x20CAP	◇6	0.03
SRTP5790	57~90	+20	TPGH1103..L	SB-3TR-M3	T8	0.15

Unit: mm

HBOR63 Micro Boring System

HBOR63 微調搪孔系統組

HBOR

BT / NT
series



Features

- HBOR63 micro boring system which boring range is from 6 ~ 150mm.
- The inside diameter of HBOR63 micro boring system is 16mm.
- HBOR63 boring head can match BM140 series for optional. It can extend boring range to 280mm (6 ~ 280mm).
=> refer to P.97
- Insert must be ordered separately.
- HBOR63 微調搪孔系統組：搪孔範圍 6 ~ 150mm
- HBOR63 微調搪孔本體中的內孔為 16mm
- HBOR63 微調搪孔系統組可另選配 BM 系列，使其搪孔範圍延展至 280mm (6 ~ 280mm) => 請參考 P.97
- 刀片為另購品

Model No.	Boring Range	Holder	L	Draw Bolt	Weight (kg)
BT40 HBOR63/SET	6~150	BT40 ACK6-055	55	-	9.70
BT50 HBOR63/SET	6~150	BT50 ACK6-065	65	-	12.30
		BT50 ACK6-085	85	-	12.70
NT40 HBOR63/SET	6~150	NT40 ACK6-055	55	5/8"-11 M16x2.0P	9.60
NT50 HBOR63/SET	6~150	NT50 ACK6-065	65	1"-8 M24x3.0P	11.70

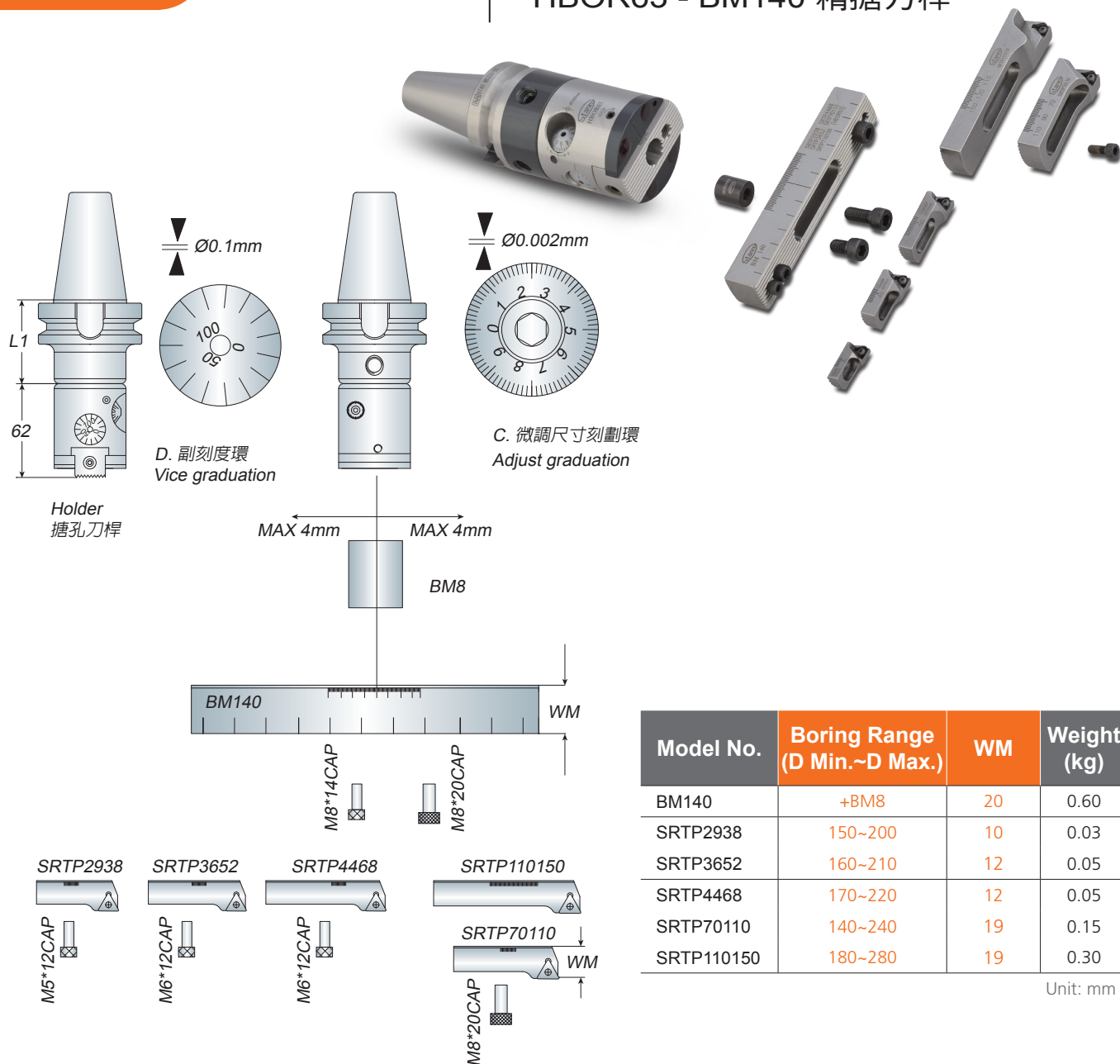
Unit: mm

Model No.	Boring Range (D Min.~D Max.)	Dimension (DM)	Insert	Screw	Wrench	Weight (kg)
BR1606-21	6~9	21	WBGTO601..L	SB-1STR-M2	T6	0.10
BR1608-28	8~11	28	TBGT0601..L	SB-1STR-M2	T6	0.10
BR1610-35	10~13	35				0.10
BR1612-42	12~15	42				0.10
BR1614-50	14~17	50	TPGH0902..L	SB-2TR-M2.5	T8	0.15
BR1616-60	16~20	60				0.15
BR1620-65	20~24	65	TPGH1103..L	SB-3TR-M3	T8	0.20
BR1624-68	24~28	68				0.20
BM5	60+SRTP2938 or SRTP3652 or SRTP4468			M5x12CAP	4	0.40
SRTP2938	29~38	+10				0.03
SRTP3652	36~52	+12	TPGH0902..L	SB-2TR-M2.5	T8	0.05
SRTP4468	44~68	+12				0.05
BM8	+SRTP70110 or SRTP110150			M8x20CAP	6	0.03
SRTP70110	70~110	+20				0.15
SRTP110150	110~150	+20	TPGH1103..L	SB-3TR-M3	T8	0.30

Unit: mm

HBOR63 - BM140 Micro Boring Holder

HBOR63 - BM140 精搪刀桿



Model No.	Boring Range (D Min.~D Max.)	WM	Weight (kg)
BM140	+BM8	20	0.60
SRTP2938	150~200	10	0.03
SRTP3652	160~210	12	0.05
SRTP4468	170~220	12	0.05
SRTP70110	140~240	19	0.15
SRTP110150	180~280	19	0.30

Unit: mm

Features

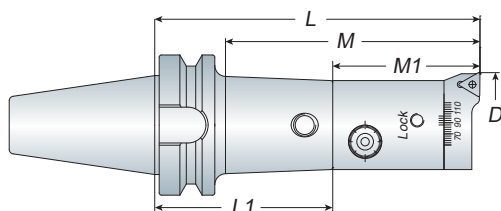
- BM140 micro boring holder matches with HBOR63 boring head.
- The boring range of BM140 boring system is from 150 ~ 280mm.
- BM140 精搪刀桿運用於 HBOR63 刀桿
- BM140 精搪範圍為 150 ~ 280mm

Micro Boring Holder

極細微調精搪孔刀桿

HBOR

BT / NT series



Model No.	Boring Range (D Min.~D Max.)		M	L	Micro Boring and Cutting System					Weight (kg)
					Holder (L1)	Boring Head	Connector	Insert Holder	M1	
BT30 HBOR25-075	M	29~38	75	105	BT30 ACK2-055	HBOR25	M5	SRTP2938	50	1.20
HBOR32-093	M	36~52	93	118	BT30 ACK3-055	HBOR32	M6	SRTP3652	63	1.40
HBOR40-093	M	44~68		118	BT30 ACK4-055	HBOR40		SRTP4468	63	1.70
HBOR50-093	BM	57~90		125	BT30 ACK5-045	HBOR50	BM8	SRTP5790	80	2.00
HBOR63-093	BM	70~110		145	BT30 ACK6-065	HBOR63		SRTP70110	80	3.10
BT40 HBOR25-090	M	29~38	90	122	BT40 ACK2-072	HBOR25	M5	SRTP2938	50	1.90
HBOR32-102	M	36~52	102	135	BT40 ACK3-072	HBOR32	M6	SRTP3652	63	2.20
HBOR40-102	M	44~68		135	BT40 ACK4-072	HBOR40		SRTP4468	63	2.40
HBOR50-102	BM	57~90		130	BT40 ACK5-050	HBOR50	BM8	SRTP5790	80	3.00
HBOR63-102	BM	70~110		135	BT40 ACK6-055	HBOR63		SRTP70110	80	3.60
HBOR63-102	BM	110~150	135	BT40 ACK6-055	HBOR63	SRTP110150		80	3.70	
BT50 HBOR25-102	M	29~38	102	165	BT50 ACK2-115	HBOR25	M5	SRTP2938	50	4.70
-127	M	29~38	127	190	BT50 ACK2-140					4.80
-152	M	29~38	152	215	BT50 ACK2-165					4.90
HBOR32-135	M	36~52	135	198	BT50 ACK3-135	HBOR32	M6	SRTP3652	63	5.30
-165	M	36~52	165	228	BT50 ACK3-165					5.90
-200	M	36~52	200	263	BT50 ACK3-200					6.20
HBOR40-135	M	44~68	135	198	BT50 ACK4-135	HBOR40		SRTP4468	63	5.60
-185	M	44~68	185	248	BT50 ACK4-185					6.30
-225	M	44~68	225	288	BT50 ACK4-225					6.50
-265	M	44~68	265	328	BT50 ACK4-265					6.80
HBOR50-102	BM	57~90	102	145	BT50 ACK5-065	HBOR50	BM8			SRTP5790
-202	BM	57~90	202	245	BT50 ACK5-165			7.00		
-252	BM	57~90	252	295	BT50 ACK5-215			7.40		
-302	BM	57~90	302	345	BT50 ACK5-265			8.50		
HBOR63-122	BM	70~110	122	165	BT50 ACK6-085	HBOR63		SRTP70110	80	7.00
-202	BM	70~110	202	245	BT50 ACK6-165					8.40
-252	BM	70~110	252	295	BT50 ACK6-215					10.00
-302	BM	70~110	302	345	BT50 ACK6-265					11.60
-122	BM	110~150	122	165	BT50 ACK6-085		SRTP110150	80	7.20	
-202	BM	110~150	202	245	BT50 ACK6-165				8.60	
-252	BM	110~150	252	295	BT50 ACK6-215				10.20	
-302	BM	110~150	302	345	BT50 ACK6-265				11.80	

Unit: mm

Features

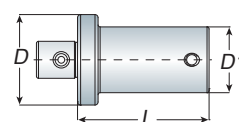
- HBOR SET = holder + boring head + connector + insert holder
- The boring range of HBOR is from 29 ~ 150mm that are according to your request to choice.
- HBOR 極細微調精搪孔刀桿是由搪孔刀桿、精搪刀頭、連接器和精搪刀座組成
- HBOR 極細微調精搪孔刀桿之搪孔範圍為 29 ~ 150mm，可依需求選擇

BT / NT
series

HBOR ACK/BCK

Adapter

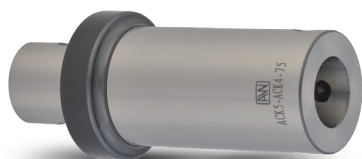
縮徑接桿



BCK Type

HBOR Type

ACK Type



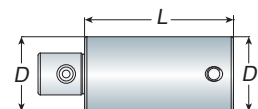
Model No.	D	D1	L	Weight (kg)
ACK3-ACK2-025	32	25	32	0.20
ACK4-ACK2-030	40	25	40	0.30
-ACK3-030	40	32	40	0.40
ACK5-ACK2-035	50	25	50	0.50
-060	50	25	75	0.60
-ACK3-035	50	32	50	0.60
-067	50	32	82	0.80
-ACK4-035	50	40	50	0.70
-075	50	40	90	1.10
ACK6-ACK2-040	63	25	63	0.80
-090	63	25	113	1.10
-ACK3-040	63	32	63	0.90
-100	63	32	127	1.30
-ACK4-040	63	40	63	1.10
-120	63	40	143	1.80
-ACK5-040	63	50	63	1.20
-140	63	50	163	2.80

Unit: mm



Extension Adapter

延長接桿



BCK Type

HBOR Type

ACK Type

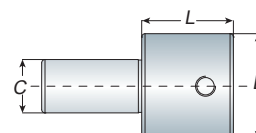
Model No.	D	D1	L	Weight (kg)
ACK2-ACK2-025	25	25	25	0.10
-050	25	25	50	0.30
ACK3-ACK3-032	32	32	32	0.20
-064	32	32	64	0.60
ACK4-ACK4-040	40	40	40	0.40
-080	40	40	80	0.80
ACK5-ACK5-050	50	50	50	0.80
-100	50	50	100	1.50
ACK6-ACK6-063	63	63	63	1.50
-126	63	63	126	2.80

Unit: mm



Adapter - Straight Shank

直柄接桿



BCK Type

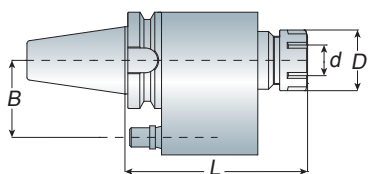
HBOR Type

ACK Type

Model No.	C	D	L	Weight (kg)
C32 ACK2-035	32	25	53	0.30
ACK3-040	32	32	40	0.50
ACK4-040	32	40	40	0.80
ACK5-040	32	50	40	0.90
ACK6-055	32	63	55	1.30

Unit: mm

- Suitable for HBOR micro boring head and ACK/BCK boring cutter.
- 適用於 HBOR 極細微調精搪孔頭和 ACK/BCK 刀頭



Oil-Feed Holder

油路刀桿

ERO

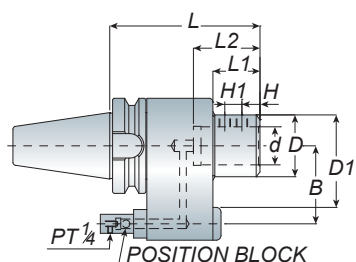
BT / NT series



Model No.	Clamping Range (d)	D	L	B (中心距)	Collet Type	Weight (kg)
BT40 ERO32-155	4~20	50	155	60/65	ER32-CL	4.70
ERO40-160	4~26	63	160	60/65	ER40-CL	4.90
BT50 ERO32-160	4~20	50	160	80/82	ER32-CL	7.90
ERO40-170	4~26	63	170	80/82	ER40-CL	8.30

Unit: mm

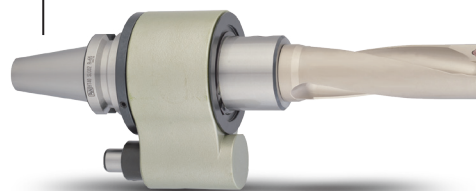
- ERO oil-feed holder must be used with ER coolant nut and ER coolant collet (refer to P.12).
- When ordering, please specify the B size of oil-feed holder according to your machine.
- ERO 油路刀桿需與止水螺帽與止水筒夾 (請參考 P.12) 一起使用
- 請於訂購時，依據機台規格確認中心距離 (B 的尺寸)



Oil-Feed Holder

油路刀桿

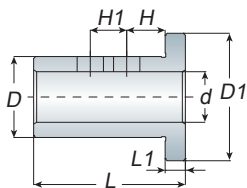
SLO



Model No.	d	D	D1	L	L1	L2	H	H1	B (中心距)	Weight (kg)
BT40 SLO32-155	32	53	90	155	50	60	15	15	60/65	4.90
SLO40-155	40	70	90	155	50	70	19	18	60/65	5.00
BT50 SLO32-160	32	54	100	160	50	60	15	15	80/82	8.00
SLO40-160	40	64	100	160	50	70	19	18	80/82	8.40

Unit: mm

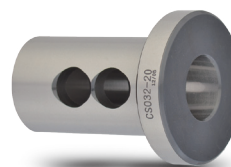
- When ordering, please specify the B size of oil-feed holder according to your machine.
- 請於訂購時，依據機台規格確認中心距離 (B 的尺寸)



Reducing Sleeve

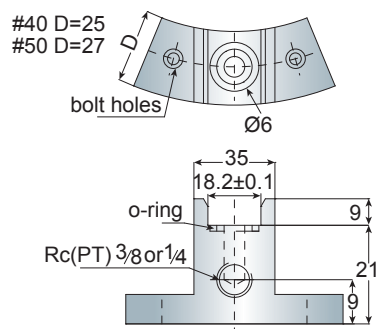
油路刀套

CSO



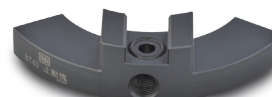
Model No.	d	D	D1	L	L1	H	H1	Weight (kg)
CSO32	6,8,10,12,16,20,25	32	53	65	10	15	15	0.40
CSO40	6,8,10,12,16,20,25,32	40	63	75	10	19	18	0.90

Unit: mm



Positioning Block

止動塊

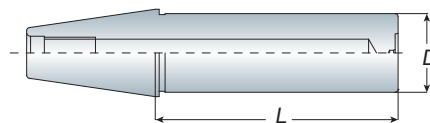


BT / NT series

TA

Test Bar

測試棒



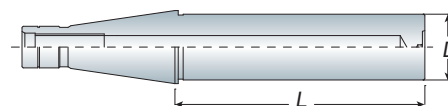
- Test arbor is used to measure the runout of machine spindle.
- Taper Contant > 85%
- 測試棒為測量機台主軸精準度用
- 錐度密合度 > 85%

Model No.	D	L	Roundness 真圓度	Concentricity 同心度	Weight (kg)
BT30 TA30-200	30	200	< 0.003	< 0.005	2.20
-250	30	250			2.50
BT40 TA40-250	40	250			3.70
-300	40	300			4.00
-350	40	350			4.80
BT50 TA40-315	40	315			5.50
-350	40	350			5.90
-400	40	400			6.50
TA63-315	63	315			10.20
-350	63	350			10.90
-400	63	400			12.00

Unit: mm



- Test arbor is used to measure the runout of machine spindle.
- When ordering, please specify the draw bolt with inch size or metric size.
- Taper Contant > 85%
- 測試棒為測量機台主軸精準度用
- 請於訂購時，確認刀桿為英制或公制
- 錐度密合度 > 85%

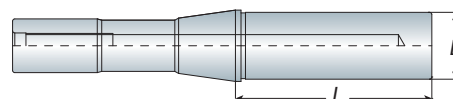


Model No.	D	L	Roundness 真圓度	Concentricity 同心度	Draw Bolt	Weight (kg)
NT30 TA30-200	30	200	< 0.003	< 0.005	1/2"-12	2.40
-300	30	300			M12x1.75P	2.70
NT40 TA40-250	40	250			5/8"-11	3.80
-300	40	300			M16x2.0P	4.20
-350	40	350				5.00
NT50 TA40-300	40	300			1"-8	6.20
-350	40	350			M24x3.0P	6.60
-400	40	400				7.10
TA63-300	63	300				10.90
-350	63	350				11.60
-400	63	400				12.70

Unit: mm

R8 Taper Shank

R8 測試棒



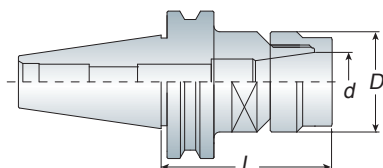
- Test arbor is used to measure the runout of machine spindle.
- Taper Contant > 85%
- 測試棒為測量機台主軸精準度用
- 錐度密合度 > 85%

Model No.	D	L	Roundness 真圓度	Concentricity 同心度	Weight (kg)
R8 TA30-200	30	200	< 0.003	< 0.005	2.30
-300	30	300			2.90

Unit: mm

ER Balanced Tool Holder

彈性筒夾本體

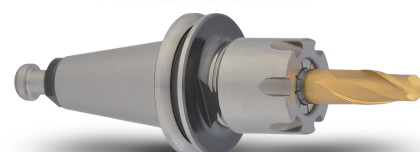


Model No.	Clamping Range(d)	D	L	Collet Type	Wrench	Weight (kg)
ISO20 ER16M-030	1~10	22	30	ER16	WM16	0.20
ISO25 ER20M-030	1~13	28	30	ER20	WM20	0.20
ISO25 DER20M-030	1~13	28	30	ER20	WM20	0.20
ISO30 ER16-055	1~10	28	55	ER16	WER16	0.60
ER20-060	1~13	34	60	ER20	WER20	0.60
ER25-060	2~16	42	60	ER25	WER25	0.70
ER32-060	2~20	50	60	ER32	WER32	0.70

Unit: mm

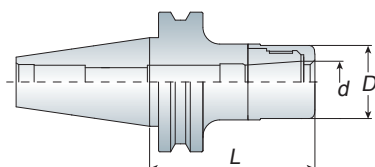
ISO

ISO/NBT
series



ASK Balanced Tool Holder

高轉速精密筒夾本體



Model No.	Clamping Range (d)	D	L	Collet Type	Wrench	Weight (kg)
ISO25 ASK10-040	2~10	27	40	ASK10	WASK10	0.30
ISO25 DASK10-040	2~10	27	40	ASK10	WASK10	0.30
ISO30 ASK10-060	2~10	27	60	ASK10	WASK10	0.70
ASK16-060	3~16	40	60	ASK16	WASK16	0.80

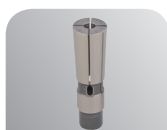
Unit: mm



- DER20M / DASK10 is for "DOUBLE CONTACT SYSTEM"
- For small CNC machine center and engraving machine.
- Wrench and collet must be ordered separately.
- Max speed: 30,000 r.p.m. G2.5
- DER20M / DASK10 適用於兩面拘束系統
- 適用於木工機及雕刻機
- 扳手和筒夾為另購品
- 最高轉速可達 30,000 r.p.m. G2.5

ISO/NBT
series

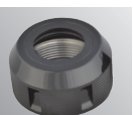
ISO



P23- ADS Collet



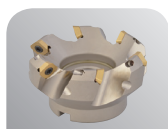
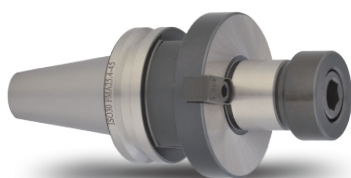
P26- OZ Collet



P26- OZ Nut



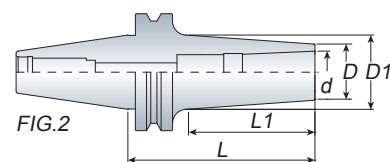
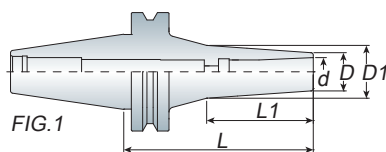
P26- Wrench



P174/175
Face Mill Cutter

ADS Balanced Tool Holder

後拉式夾頭刀桿

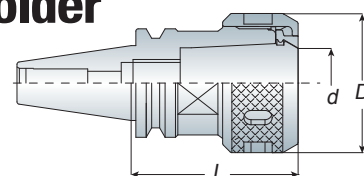


Model No.	FIG.	Clamping Range (d)	D	D1	L1	L	Weight (kg)
ISO30 ADS08-080	1	3~8	16	22	45	80	0.60
ADS12-080	2	3~12	23	32	55	80	0.70

Unit: mm

OZ Balanced Tool Holder

重切削筒夾本體

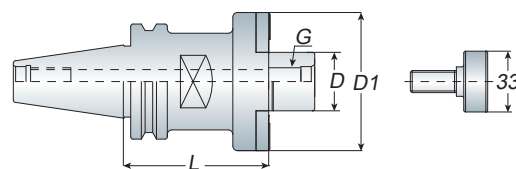


Model No.	d	D	L	Collet Type	Wrench	Weight (kg)
ISO30 OZ25-065	3~25	60	65	OZ25	WOZ25	1.00

Unit: mm

FMA Balanced Tool Holder

平面銑刀桿



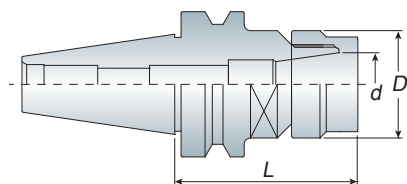
Model No.	D	D1	L	G	Weight (kg)
ISO30 FMA25.4-050	25.4	60	50	M12	1.00

Unit: mm

- For small CNC machine center and engraving machine.
- Max speed: 30,000 r.p.m G2.5
- 適用於木工機及雕刻機
- 最高轉速可達 30,000 r.p.m G2.5

ER Collet Chuck (Without Keyway)

彈性筒夾本體 (無鍵槽)



Model No.	Clamping Range (d)	D	L	Collet Type	Wrench	Weight (kg)
NBT30 ER16-060	1~10	28	60	ER16	WER16	0.70
ER20-060	1~13	34	60	ER20	WER20	0.70
ER25-060	2~16	42	60	ER25	WER25	0.80
ER32-060	2~20	50	60	ER32	WER32	0.80

Unit: mm

NBT

ISO/NBT
series

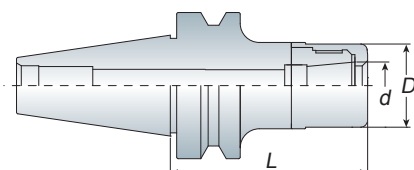


- ER collet chuck with the flexibility that can clamp drill, reamers, end mills and taps.
- ER collet chuck is also suitable for ER bearing nut and wrench.
- Wrench must be ordered separately.
- Max speed: 30,000 r.p.m G2.5
- ER 筒夾具有彈性，適合夾持鑽頭、鉸刀、銑刀及絲攻刀具
- ER 刀桿可另外選配 ER 鋼珠螺帽及扳手
- ER 扳手為另購品
- 最高轉速可達 30,000 r.p.m G2.5



ASK High Speed Collet Chuck (Without Keyway)

高轉速精密筒夾本體 (無鍵槽)



Model No.	Clamping Range (d)	D	L	Collet Type	Wrench	Weight (kg)
NBT30 ASK10-080	2~10	27	80	ASK10	WASK10	0.80
ASK16-080	3~16	40	80	ASK16	WASK16	0.90

Unit: mm

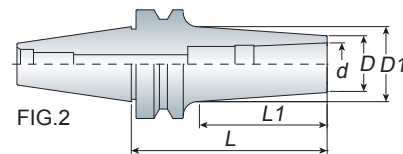
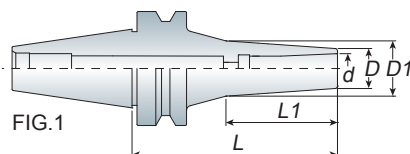


- ASK tooling systems are suitable for high speed and high precision cutting.
- Special nut design provides better cutting condition and reducing cutting vibration.
- ASK collet can be achieve the best cutting condition when using AA grade.
- Wrench must be ordered separately.
- Max speed: 30,000 r.p.m G2.5
- ASK 系列適用於高轉速、高精密切削加工，切削效果佳
- 螺帽獨特設計可降低高轉速切削時的風阻及噪音並提升工作效能
- 欲達到切削效果佳，可搭配使用 AA 級筒夾
- ASK 扳手為另購品
- 最高轉速可達 30,000 r.p.m G2.5



ADS High Speed Collet Chuck (Without Keyway)

後拉式夾頭刀桿（無鍵槽）



- ADS tool holder is suitable for high-speed and high precision cutting. Tool holder designed without nut could reduce cutting vibration.
- Wrench is attached for each ADS tool holder.
- Max Speed: 30,000 r.p.m G2.5
- ADS 刀桿適用於高速精密加工。無螺帽設計，降低加工時物件干涉
- 筒夾後拉式設計，操作簡易
- 每支 ADS 刀桿均附 1 支扳手
- 最高轉速可達 30,000 r.p.m G2.5



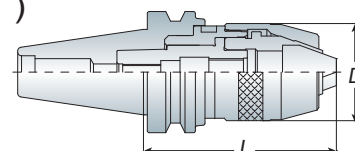
P23-ADS Collet

Model No.	FIG.	Clamping Range (d)	D	D1	L1	L	Weight (kg)
NBT30 ADS08-080	1	3~8	16	22	45	80	0.65
ADS12-080	2	3~12	23	32	55	80	0.70

Unit: mm

APU Drill Chuck Holder (Without Keyway)

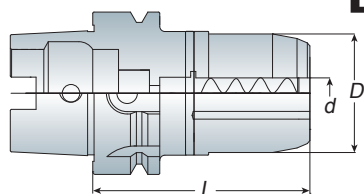
直截式鑽夾頭刀桿（無鍵槽）



- The shank and keyless drill chuck are combined together so that to avoid the drill chuck slipping out for heavy-duty and high-speed cutting.
- Wrench is attached for each APU drill chuck holder.
- APU 刀桿和鑽夾頭結為一體，可避免鑽頭於高速及重切削時掉落或鬆脫
- 每支 APU 刀桿均附 1 支扳手

Model No.	Clamping Range	D	L		Weight (kg)
			Min.	Max.	
NBT30 APU08-080	1~8	36.3	75	82	1.20
APU13-100	1~13	51.5	97	104.5	1.60

Unit: mm



Double Power Chuck

超倍力夾頭刀桿

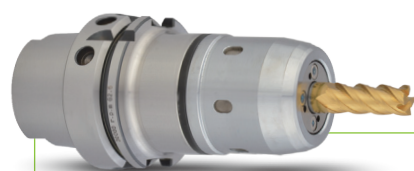
AMG

HSK-A
series



Model No.	d	D	L	Wrench	Weight (kg)
HSK63A AMG12-090	12	46	90	WAMG12	1.30
AMG16-090	16	54	90	WAMG16	2.00
AMG20-110	20	58	110	WAMG20	2.30
AMG25-110	25	62	110	WAMG25	2.30
AMG32-115	32	70	115	WAMG32	2.40
HSK100A AMG20-120	20	58	120	WAMG20	4.00
AMG25-120	25	62	120	WAMG25	4.00
AMG32-120	32	70	120	WAMG32	4.20

Unit: mm



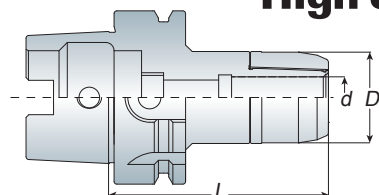
- **AMG Double Power Chuck** with nut for C-WRENCH is available.
- Please change name from AMG to AMC of each model no. when ordering.
- 螺帽部分為 C 型系列，訂購時，請更改品名為 AMC
- Example: HSK63A AMC16-090

- AMG tooling system is suitable for high speed and heavy cutting simultaneously.
- AMG tooling system is special designed for coolant type - JET THROUGH.
- High precision clamping because of the design of needle roller bearing.
- The spacer could make the flange & nut be tightened and provide exceptional rigidity.
- Wrench must be ordered separately.
- Max speed: 30,000 r.p.m G2.5
- AMG 刀桿系列可同時在高速切削及重切削上使用
- AMG 刀具系列為端面給油設計
- 刀桿採用針狀軸承設計，夾持度極佳
- 螺帽透過墊片與本體貼合使之提高剛性
- AMG 扳手為另購品
- 最高轉速可達 30,000 r.p.m G2.5

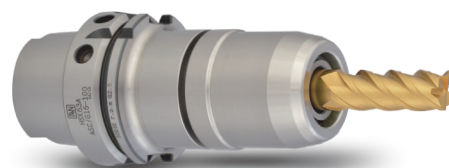


High Speed Milling Chuck

高轉速強力銑刀夾頭刀桿



ASG



Model No.	Clamping Range	d	D	L	Collet Type	Weight (kg)
HSK50A ASG12-075	3~12	12	35	75	SC12	0.80
ASG16-100	3~16	16	46	100	SC16	0.80
HSK63A ASG12-075	3~12	12	35	75	SC12	1.10
-095/120	3~12	12	35	95/120	SC12	1.30/1.50
ASG16-080	3~16	16	46	80	SC16	1.30
-100	3~16	16	46	100	SC16	1.60
ASG20-095	4~20	20	54	95	SC20	1.90
ASG25-105	6~25	25	58	105	SC25	2.00
ASG32-115	6~32	32	68	115	SC32	2.10
HSK100A ASG12-115/135	3~12	12	35	115/135	SC12	3.00/3.30
ASG16-115/135	3~16	16	46	115/135	SC16	3.00/3.30
ASG20-115/135/165	4~20	20	54	115/135/165	SC20	3.20/3.80/4.60
ASG25-115/135/165	6~25	25	58	115/135/165	SC25	3.40/4.00/4.80
ASG32-115/135/165	6~32	32	68	115/135/165	SC32	3.40/4.20/5.00

Unit: mm

- ASG tooling system is suitable for high speed and high precision cutting.
- When using without collet, ASG tooling system is designed for coolant type - THROUGH TOOLS.
- Wrench must be ordered separately.
- Max speed: 30,000 r.p.m G2.5
- ASG 刀具系列適用於高轉速、高精密切削加工，切削效果佳
- 在沒有搭配筒夾的情況下使用，ASG 刀具系列為刀尖給油設計

- ASG 扳手為另購品
- 最高轉速可達 30,000 r.p.m G2.5



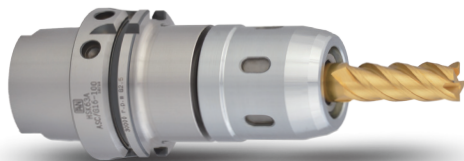
Ann Way

106



HSK-A series

ASC



- ASC tooling system is suitable for high speed and high precision cutting.
- When using without collet, ASC tooling system is designed for coolant type - THROUGH TOOLS.
- Dust-proof design could extend tool holder lifetime.
- C-type wrench is attached for each ASC milling chuck.
- Max speed: 30,000 r.p.m G2.5
- ASC 刀具系列用於高轉速、高精密切削加工，切削效果佳
- 在沒有搭配筒夾的情況下使用，ASC 刀具系列為刀尖給油設計
- 特殊防塵設計，提升刀桿壽命
- 每支 ASC 刀桿均附 1 支 C 型扳手
- 最高轉速可達 30,000 r.p.m G2.5



- C-type wrench is attached for each ASC milling chuck.
- Max speed: 30,000 r.p.m G2.5
- 每支 ASC 刀桿均附 1 支 C 型扳手
- 最高轉速可達 30,000 r.p.m G2.5

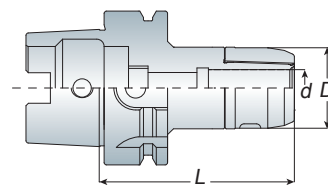


P6- Wrench

P6- SC Collet

High Speed Milling Chuck

高轉速強力銑刀夾頭刀桿

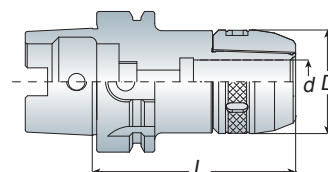


Model No.	Clamping Range	d	D	L	Collet Type	Weight (kg)
HSK50A ASC16-100	3~16	16	46	100	SC16	0.80
HSK63A ASC16-080	3~16	16	46	80	SC16	1.30
-100	3~16	16	46	100	SC16	1.70
ASC20-095	4~20	20	53	95	SC20	1.90
HSK100A ASC16-115	3~16	16	46	115	SC16	2.90
-135	3~16	16	46	135	SC16	3.20
ASC20-115	4~20	20	53	115	SC20	3.20
-135	4~20	20	53	135	SC20	3.80
-165	4~20	20	53	165	SC20	4.60

Unit: mm

Milling Chuck

強力銑刀夾頭刀桿



Model No.	Clamping Range	d	D	L	Collet Type	Weight (kg)
HSK63A ASC25-105	6~25	25	58	105	SC25	2.00
ASC32-105	6~32	32	68	105	SC32	2.00
HSK100A ASC25-115	6~25	25	64	115	SC25	3.40
-135	6~25	25	64	135	SC25	4.00
-165	6~25	25	64	165	SC25	4.80
ASC32-115	6~32	32	76	115	SC32	3.40
-135	6~32	32	76	135	SC32	4.20
-165	6~32	32	76	165	SC32	5.00

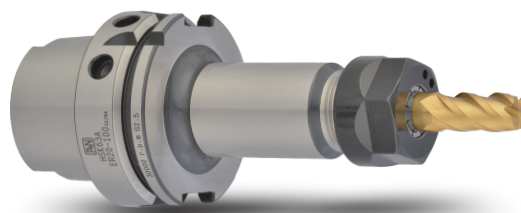
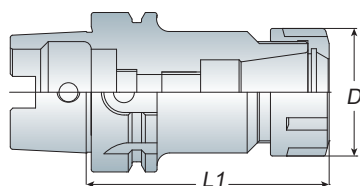
Unit: mm

Spring Collet Chuck

彈性筒夾本體

ER

HSK-A
series



Features

- ER collet chuck with the flexibility that can clamp drill, reamers, end mills and taps.
- ER16 / ER20 holder can make M type as your choice.
- ER collet chuck is also suitable for ER bearing nut and wrench.
- Wrench must be ordered separately.
- ER 筒夾具有彈性，適合夾持鑽頭、鉸刀、銑刀及絲攻刀具
- ER16 / ER20 刀桿另有 M 型可供選擇
- ER 刀桿可另外選配鋼珠螺帽及扳手
- ER 扳手為另購品

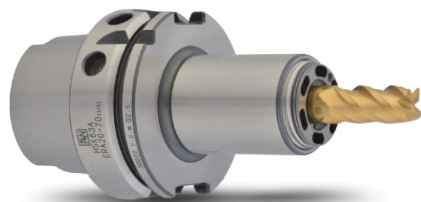


Model No.	Clamping Range	D	L1	L	Collet Type	Wrench	Weight (kg)
HSK50A ER16-080	1~10	28	54	80	ER16	WER16	0.70
-100	1~10	28	74	100	ER16	WER16	0.90
ER20-080	1~13	34	54	80	ER20	WER20	0.70
-100	1~13	34	74	100	ER20	WER20	0.90
ER25-080	2~16	42	54	80	ER25	WER25	0.90
-100	2~16	42	74	100	ER25	WER25	1.10
ER32-100	2~20	50	74	100	ER32	WER32	1.20
HSK63A ER16-080	1~10	28	54	80	ER16	WER16	1.00
-100	1~10	28	74	100	ER16	WER16	1.10
-120	1~10	28	94	120	ER16	WER16	1.20
-150	1~10	28	124	150	ER16	WER16	1.40
ER20-080	1~13	34	54	80	ER20	WER20	1.00
-100	1~13	34	74	100	ER20	WER20	1.10
-120	1~13	34	94	120	ER20	WER20	1.30
-150	1~13	34	124	150	ER20	WER20	1.50
ER25-080	2~16	42	54	80	ER25	WER25	1.20
-100	2~16	42	74	100	ER25	WER25	1.40
-120	2~16	42	94	120	ER25	WER25	1.60
-150	2~16	42	124	150	ER25	WER25	2.00
ER32-080	2~20	50	54	80	ER32	WER32	1.30
-100	2~20	50	74	100	ER32	WER32	1.60
-150	2~20	50	124	150	ER32	WER32	2.40
ER40-080	3~26	63	54	80	ER40	WER40	1.40
-100	3~26	63	74	100	ER40	WER40	1.80
-150	3~26	63	124	150	ER40	WER40	2.90
HSK100A ER16-100	1~10	28	71	100	ER16	WER16	2.60
-160	1~10	28	131	160	ER16	WER16	3.00
ER20-100	1~13	34	71	100	ER20	WER20	2.70
-160	1~13	34	131	160	ER20	WER20	3.20
ER25-100	2~16	42	71	100	ER25	WER25	2.90
-160	2~16	42	131	160	ER25	WER25	3.50
ER32-100	2~20	50	71	100	ER32	WER32	3.00
-160	2~20	50	131	160	ER32	WER32	3.80
ER40-100	3~26	63	71	100	ER40	WER40	3.30
-160	3~26	63	131	160	ER40	WER40	4.20

Unit: mm

HSK-A series

ERA



- The clamping nuts for ERA are special designed to be fitted internally into the holder. The special design could provide better cutting conditions and reducing cutting vibrations.
- Wrench must be ordered separately.
- Max speed: 30,000 r.p.m G2.5
- 特殊內藏式螺帽設計：可降低及減少切削時所產生的阻力與振動，並提升加工品質及穩定性
- ERA 扳手為另購品
- 最高轉速可達 30,000 r.p.m G2.5



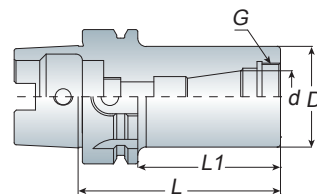
P10- ERA Nut

P11- ER Collet

P10- ERA Wrench

High Speed Collet Chuck

高速彈性筒夾本體



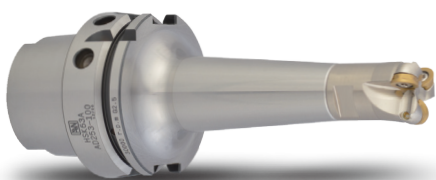
Model No.	Clamping Range (d)	D	L1	L	G	Weight (kg)
HSK50A ERA11-060	1~7	22	34	60	M18x1.0P	0.60
ERA16-070	1~10	28	44	70	M24x1.0P	0.70
ERA20-070	1~13	32	44	70	M28x1.5P	0.70
ERA25-075	2~16	38	49	75	M32x1.5P	0.80
HSK63A ERA11-060	1~7	22	34	60	M18x1.0P	0.90
ERA16-070	1~10	28	44	70	M24x1.0P	1.00
ERA20-070	1~13	32	44	70	M28x1.5P	1.10
ERA25-075	2~16	38	49	75	M32x1.5P	1.10
ERA32-085	2~20	46	59	85	M40x1.5P	1.20

Unit: mm

AMD

Screw-in Endmill Holder

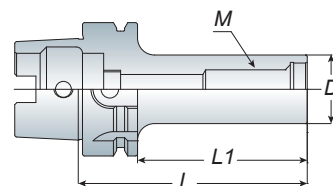
圓刀銑刀桿



- Max speed: 30,000 r.p.m G2.5
- 最高轉速可達 30,000 r.p.m G2.5

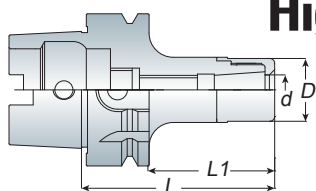


P81-End Mills



Model No.	M	D	L1	L	Weight (kg)
HSK63A AMD122-080	6	11	54	80	0.90
-100	6	11	74	100	1.00
AMD123-080	6	11	54	80	0.90
AMD162-080	8	13	54	80	0.90
-100	8	13	74	100	1.00
AMD202-080	10	18	54	80	0.90
-100	10	18	74	100	1.00
AMD253-080	12	21	54	80	0.90
-100	12	21	74	100	1.00
AMD354-080	16	29	54	80	1.00
-100	16	29	74	100	1.20

Unit: mm



High Speed Collet Chuck

高轉速精密筒夾本體

Model No.	Clamping Range (d)	D	L1	L	Weight (kg)
HSK40A ASK10-055	2~10	27	35	55	0.40
HSK50A ASK06-060	2~6	19.05	34	60	0.60
ASK10-080	2~10	27	54	80	0.70
ASK13-080	3~13	33	54	80	0.80
ASK16-080	3~16	40	54	80	0.90
HSK63A ASK06-080	2~6	19.05	54	80	0.90
-100	2~6	19.05	74	100	1.00
ASK10-060	2~10	27	34	60	0.90
-080	2~10	27	54	80	1.00
-100/120	2~10	27	74/94	100/120	1.10/1.20
ASK13-080	3~13	33	54	80	1.20
-100/120	3~13	33	74/94	100/120	1.40/1.60
ASK16-080	3~16	40	54	80	1.10
-100/120	3~16	40	74/94	100/120	1.30/1.50
ASK20-090	4~20	48	64	90	1.50
ASK25-090	6~25.4	54	64	90	1.50
HSK100A ASK06-105	2~6	19.05	76	105	1.20
ASK10-105	2~10	27	76	105	2.60
ASK13-105	3~13	33	76	105	2.70
ASK16-105	3~16	40	76	105	2.80
ASK20-120	4~20	48	94	120	3.50
ASK25-120	6~25.4	54	94	120	3.50

Unit: mm

ASK

HSK-A series



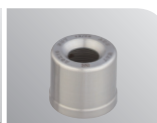
- ASK tooling systems are suitable for high speed and high precision cutting.
- Special nut design provides better cutting condition and reducing cutting vibration.
- ASK collet can be achieve the best cutting condition when using AA grade.
- Wrench must be ordered separately.
- Max speed: 40,000 r.p.m G2.5
- ASK 系列適用於高轉速、高精密切削加工，切削效果佳
- 螺帽獨特設計可降低高轉速切削時的風阻及噪音並提升工作效能
- 欲達到切削效果佳，可搭配使用 AA 級筒夾
- ASK 扳手為另購品
- 最高轉速可達 40,000 r.p.m G2.5



P17- SK Collet



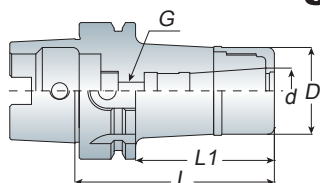
P18- Wrench



P19- ASK Nut

High Speed Collet Chuck

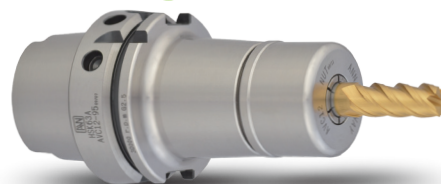
高轉速高精度立銑刀本體



Model No.	Clamping Range (d)	D	L1	L	Weight (kg)
HSK63A AVC06-090	2~6	27	64	90	1.10
-120	2~6	27	94	120	1.30
AVC10-090	3~10	33	64	90	1.20
-120	3~10	33	94	120	1.40
AVC12-090	3~12	40	64	90	1.30
-120	3~12	40	94	120	1.70

Unit: mm

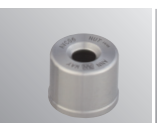
AVC



- AVC Long type collet with angle 8° increase clamping force and cutting rigidity and precision.
- Special nut design provides better cutting conditions and reducing cutting vibrations.
- Wrench must be ordered separately.
- Max Speed: 40,000 r.p.m G2.5
- 8° 長筒夾設計提升高夾持力，高剛性及高精度
- 刀桿柄壁的增厚設計大幅提升切削剛性
- 螺帽獨特設計可降低高轉速切削時的風阻及噪音並提升工作效能
- AVC 扳手為另購品
- 最高轉速可達 40,000 r.p.m G2.5



P21- AVC Collet



P21- AVC Nut



P21- Wrench

Ann Way

110

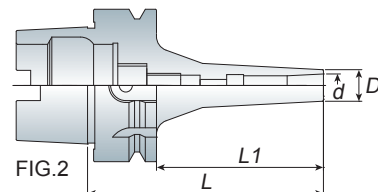
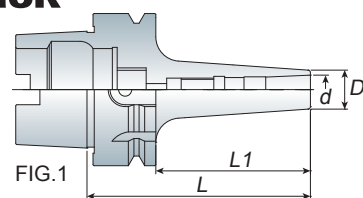


HSK-A series

ADS

High Speed Collet Chuck

後拉式夾頭刀桿



- ADS06, ADS08: 5mm Hex-Wrench
- ADS12, ADS16: 8mm Hex-Wrench
- ADS06, ADS08 使用 5mm 六角扳手
- ADS12, ADS16 使用 8mm 六角扳手

- ADS tool holder is suitable for high-speed and high precision cutting. Tool holder designed without nut could reduce cutting vibration.
- Wrench is attached for each ADS tool holder.
- Max Speed: 40,000 r.p.m G2.5
- ADS 刀桿適用於高速精密加工。無螺帽設計，降低加工時物件干涉。
- 筒夾後拉式設計，操作簡易
- 每支 ADS 刀桿均附 1 支扳手
- 最高轉速可達 40,000 r.p.m G2.5

Model No.	FIG.	Clamping Range (d)	D	L	L1	Weight (kg)
HSK50A ADS08-085	1	3~8	16	59	85	0.60
-125	2	3~8	16	99	125	0.80
ADS12-125	1	3~12	23	99	125	0.80
HSK63A ADS06-095	2	2~6	13	50	95	0.90
-120	2	2~6	13	60	120	1.00
-150	2	2~6	13	76	150	1.20
ADS08-100	1	3~8	16	74	100	1.00
ADS12-125	1	3~12	23	99	125	1.20
ADS16-125	1	5~16	28	99	125	1.30
HSK100A ADS06-130	2	2~6	13	101	130	2.50
ADS08-130	2	3~8	16	101	130	2.50
ADS12-130	1	3~12	23	101	130	2.70
ADS16-130	1	5~16	28	101	130	2.90

Unit: mm

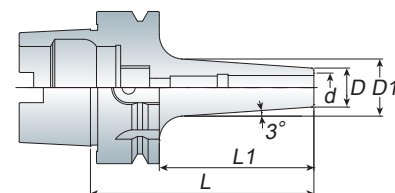


P23- ADS Collet

ASR

Shrink Chuck

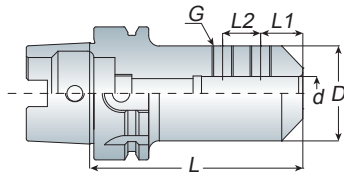
燒結式刀桿



- Heater specification => refer to P.24
- Tools are restricted by material of h6 carbide tool.
- Max speed: 40,000 r.p.m G2.5
- 刀桿加熱器規格請參考 P.24
- 刀具限用 h6 鎢鋼刀具
- 最高轉速可達 40,000 r.p.m G2.5

Model No.	d	D	D1	L	L1	Weight (kg)
HSK63A ASR04-090	4	14	20	90	64	0.80
ASR05-090	5	16	22	90	64	0.80
ASR06-090	6	16	22	90	64	0.90
ASR08-090	8	18	24	90	64	0.90
ASR10-090	10	22	28	90	64	1.00
ASR12-090	12	24	30	90	64	1.00
ASR16-090	16	28	34	90	64	1.10
ASR20-100	20	34	40	100	74	1.20
ASR25-115	25	44	50	115	89	1.40
ASR32-120	32	44	50	120	94	1.50

Unit: mm



End Mill Holder

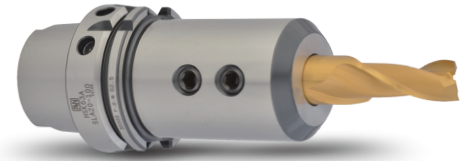
側固端銑刀桿

SLA

HSK-A
series

Model No.	d	D	L	L1	L2	G	Weight (kg)
HSK50A SLA06-080	6	25	80	12	10	M06x1.0P	0.80
SLA08-080	8	28	80	14	12	M08x1.25P	0.80
SLA10-080	10	35	80	15	14	M10x1.5P	0.90
SLA12-080	12	40	80	20	16	M10x1.5P	1.00
SLA16-090	16	45	90	22	18	M10x1.5P	1.10
SLA20-090	20	50	90	25	20	M12x1.75P	1.20
HSK63A SLA06-080	6	25	80	12	10	M06x1.0P	1.00
SLA08-080	8	28	80	14	12	M08x1.25P	1.10
SLA10-080	10	35	80	15	14	M10x1.5P	1.20
SLA12-080	12	40	80	20	16	M10x1.5P	1.30
SLA16-100	16	45	100	22	18	M10x1.5P	1.70
SLA20-100	20	50	100	25	20	M12x1.75P	1.90
SLA25-110	25	55	110	25	22	M12x1.75P	2.00
SLA32-110	32	60	110	30	22	M16x2.0P	2.80

Unit: mm



- For straight shank end mill.
- End mill is held by two set screws.
- End mill holder comes equipped with set screws.
- Max speed: 30,000 r.p.m G2.5
- 適用於夾持直柄銑刀，可用在一般銑削加工
- 夾持銑刀之固定螺絲共 2 個
- 刀桿本身已裝配 2 個固定螺絲
- 最高轉速可達 30,000 r.p.m G2.5

End Mill Holder - Weldon

側固端銑刀桿 (歐規)

EM

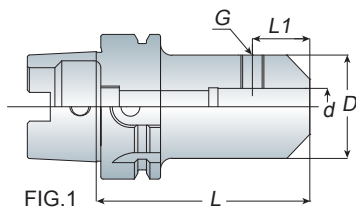


FIG.1

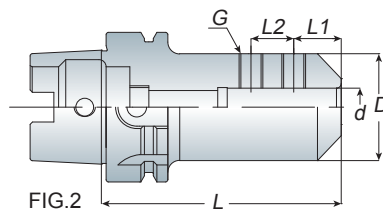
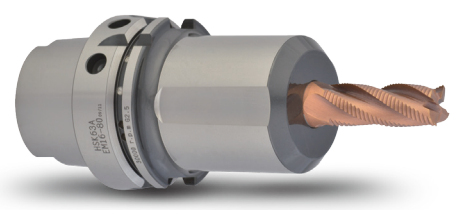


FIG.2

Model No.	FIG.	d	D	L	L1	L2	G	Weight (kg)
HSK50A EM06-065	1	6	25	65	18	-	M06x1.0P	0.60
EM08-065	1	8	28	65	18	-	M08x1.25P	0.70
EM10-065	1	10	35	65	20	-	M10x1.5P	0.80
EM12-080	1	12	42	80	22.5	-	M10x1.5P	1.00
EM16-080	1	16	48	80	24	-	M10x1.5P	1.10
EM20-080	1	20	52	80	25	-	M12x1.75P	1.20
HSK63A EM06-065	1	6	25	65	18	-	M06x1.0P	0.90
EM08-065	1	8	28	65	18	-	M08x1.25P	0.90
EM10-065	1	10	35	65	20	-	M10x1.5P	1.00
EM12-065	1	12	42	80	22.5	-	M10x1.5P	1.10
EM16-080	1	16	48	80	24	-	M10x1.5P	1.40
EM20-080	1	20	52	80	25	-	M12x1.75P	1.50
EM25-110	2	25	65	110	24	49	M12x1.75P	2.50
EM32-110	2	32	72	110	24	52	M16x2.0P	2.70

Unit: mm



- For straight shank end mill.
- End mill is held by one (FIG.1) or two (FIG.2) set screws.
- End mill holder comes equipped with set screws.
- Max speed: 30,000 r.p.m G2.5
- 適用於夾持直柄銑刀，可用在一般銑削加工
- 夾持銑刀之固定螺絲分為一個 (FIG.1) 或兩個 (FIG.2)
- 刀桿本身已裝配固定螺絲
- 最高轉速可達 30,000 r.p.m G2.5

HSK-A series

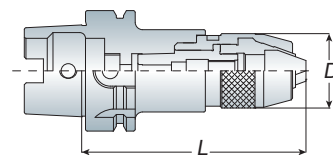
APU



- The shank and keyless drill chuck are combined together so that to avoid the drill chuck slipping out for heavy-duty and high-speed cutting.
- Wrench is attached for each APU drill chuck holder.
- Max speed: 30,000 r.p.m G2.5
- APU 刀桿和鑽夾頭結為一體，可避免鑽頭於高速及重切削時掉落或鬆脫
- 每支 APU 刀桿均附 1 支扳手
- 最高轉速可達 30,000 r.p.m G2.5

Drill Chuck Holder

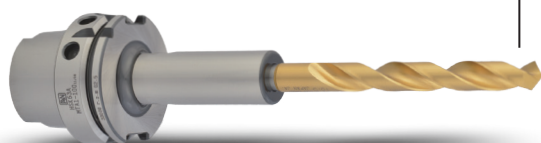
直截式鑽夾頭刀桿



Model No.	Clamping Range	D	L	Weight (kg)
HSK40A APU08-120	1~8	36.3	120	1.10
HSK50A APU08-120	1~8	36.3	120	1.30
HSK63A APU08-120	1~8	36.3	120	1.50
APU13-155	1~13	51.5	155	2.60
APU16-165	3~16	58	165	2.90
HSK100A APU13-155	1~13	51.5	155	3.70
APU16-180	3~16	58	180	4.00

Unit: mm

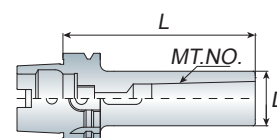
MTA



- The tool holder for morse taper shank with internal tang.
- Max speed: 30,000 r.p.m G2.5
- 最高轉速可達 30,000 r.p.m G2.5

Morse Taper Holder

莫氏錐度刀桿 - A 型



Model No.	MT. No.	D	L	Weight (kg)
HSK50A MTA1-100	MTA1	25	100	0.70
MTA2-120	MTA2	32	120	0.90
MTA3-140	MTA3	40	140	1.30
HSK63A MTA1-100	MTA1	25	100	1.00
MTA2-120	MTA2	32	120	1.20
MTA3-140	MTA3	40	140	1.60
MTA4-160	MTA4	48	160	2.00

Unit: mm

FMA FMB



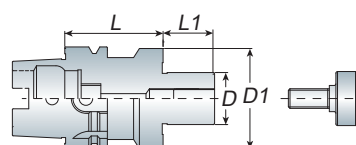
- Face mill holder equips with screw and drive keys to assemble the face mill cutter to the holder.
- Face mill cutter must be ordered separately.
- Face mill holder - long type upon your request.
- Max speed: 30,000 r.p.m G2.5
- 每支 FMA/FMB 面銑刀桿均附有螺絲及擋耳以裝配面銑刀盤使用
- 面銑刀盤為另購品
- 亦有生產平面銑刀桿 - 加長型，可另詢問
- 最高轉速可達 30,000 r.p.m G2.5



P174/175
Face Mill Cutter

Face Mill Holder

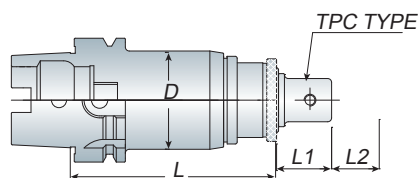
平面銑刀桿



Model No.	D	D1	L	L1	Weight (kg)
HSK50A FMA25.4-055	25.4	50	55	20	1.00
HSK63A FMA25.4-055	25.4	60	55	20	1.40
FMA31.75-060	31.75	70	60	22	1.50
HSK100A FMA25.4-100	25.4	60	100	20	4.90
FMA31.75-100	31.75	70	100	22	5.20
HSK50A FMB16-045	16	32	45	16	0.80
FMB22-050	22	40	50	18	0.80
FMB27-055	27	48	55	20	1.00
HSK63A FMB16-050	16	40	50	16	1.00
FMB22-050	22	40	50	18	1.10
FMB27-055	27	48	55	20	1.60
FMB32-055	32	58	55	21	1.70
HSK100A FMB22-100	22	40	100	18	3.65
FMB27-100	27	48	100	20	4.90
FMB32-100	32	58	100	21	5.20

Unit: mm

Tension & Compression Tap Holder



扭力伸縮攻牙本體

Model No.	D	L	L1	L2	Tapping Range	Collet Type	Weight (kg)
HSK63A TPM316	48	135	10	20	M3~M16	TPC316	1.80
TPM830	66	165	10	25	M8~M30	TPC830	2.80
HSK100A TPM316	48	150	10	20	M3~M16	TPC316	3.50
TPM830	66	170	10	25	M8~M30	TPC830	4.60

Unit: mm

TPM

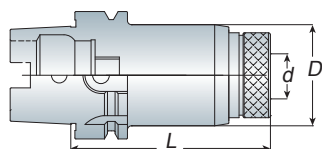
HSK-A
series



- L1: Compression, L2: Tension
- Quick change: Push back on the holder sleeve, and the tap collet is removable easily.



P40-TPC Collet



Rigid Tap Holder

剛性攻牙本體

Model No.	d	D	L	Tapping Range	Collet Type	Weight (kg)
HSK63A ART312	19	36	65	M3~M12	ATC312	0.90
ART822	31	53	85	M8~M22	ATC822	1.30

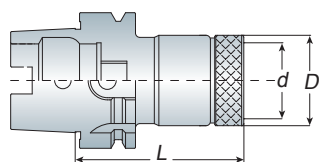
Unit: mm

ART



- ART tap holder is without floating.
- Tap collet is easy and quick to change.
- Torque control type and positive drive type tap collets can be used for ART tap holder.
- ART 剛性攻牙本體不具伸縮功能
- 絲攻筒夾易更換
- 扭力絲攻筒夾及剛性絲攻筒夾皆適用

Tension & Compression Tap Holder



伸縮攻牙本體

Model No.	d	D	L	Tapping Range	Collet Type	Weight (kg)
HSK63A ATP312	19	36	120	M3~M12	ATC312	0.90
ATP822	31	53	148	M8~M22	ATC822	1.60
HSK100A ATP312	19	36	140	M3~M12	ATC312	3.10
ATP822	31	53	155	M8~M22	ATC822	3.80

Unit: mm

ATP



- ATP tap holder is with tension and compression, so it can extend the tap lifetime.
- Torque control type and positive drive type tap collets can be used for ATP tool holder.
- ATP 伸縮攻牙本體具有伸縮功能，能延長絲攻使用壽命
- 扭力絲攻筒夾及剛性絲攻筒夾皆適用



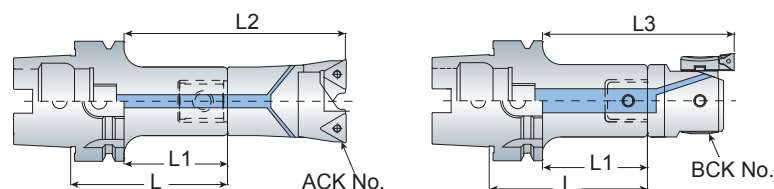
P45/46-ATC Collet

HSK-A series

ACK BCK

Adjustable Balance Cutter Tool Holder

搪孔刀桿



- ACK19 ~ ACK90 boring range is from 19mm ~ 122mm.
- BCK20 ~ BCK100 boring range is from 20mm ~ 203mm.
- The ACK holder is coolant type and both for rough and fine boring system.
- Rough boring uses the ACK cutter no. ; Fine boring uses the BCK cutter no.
- The cutter and insert must be ordered separately.
- ACK19 ~ ACK90 其搪孔範圍為：19mm ~ 122mm
- BCK20 ~ BCK100 其搪孔範圍為：20mm ~ 203mm
- 標準刀桿皆有中心出水功能，且為粗搪、精搪共通刀桿
- 粗搪加工配合 ACK 粗搪頭；精搪加工配合 BCK 精搪頭
- 搪頭和刀片為另購品



P60-BCK Cutter

P62-ACK Cutter

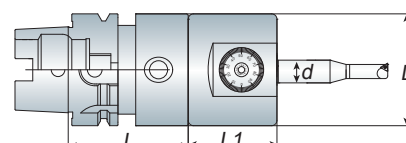
Model No.	L	L1	Adapter	ACK Cutter No.	L2	BCK Cutter No.	L3
HSK63A ACK1-080	80	54	ACK1	ACK19	92	BCK20	86.5
ACK2-090	90	64	ACK2	ACK25	109	BCK25	99.5
ACK3-100	100	74	ACK3	ACK32	124	BCK32	114
ACK4-090	90	64	ACK4	ACK40	129	BCK41	111
ACK5-080	80	54	ACK5	ACK52	124	BCK53	111
ACK6-065	65	39	ACK6	ACK68 ACK90	119 129	BCK68 BCK100	110

Unit: mm

ABJ NBJ

Modular Micro Boring Holder

微調搪孔刀桿



- ABJ / NBJ modular micro boring system includes 3 types boring range: 1. ABJ10: 6 ~ 25mm 2. ABJ12: 6 ~ 32mm 3. ABJ16 / NBJ16: 6 ~ 50mm
- ABJ / NBJ could use 3 types boring bar: BJ10B, BJ12B and BJ16
- NBJ16 boring head can match BM1625 series which can extend boring range to 68mm (6 ~ 68mm) for optional. => refer to P.93
- ABJ / NBJ boring head and boring bar must be ordered separately.
- ABJ / NBJ 微調搪孔範圍可分為三種 1. ABJ10: 6 ~ 25mm 2. ABJ12: 6 ~ 32mm 3. ABJ16 / NBJ16: 6 ~ 50mm
- ABJ / NBJ 搪刀分為三種規格：BJ10B，BJ12B 以及 BJ16.
- NBJ16 搪孔刀頭可另選配 BM1625 系列，使其搪孔範圍延展至 68mm (6 ~ 68mm) => 請參考 P.93
- ABJ / NBJ 搪孔刀頭及搪刀為另購品



P89-Boring Head

P90-BJ Boring Bar

Model No.	Micro Boring Head Type	Boring Range	d	D	L	L1
HSK63A ACK4-090	ABJ10	6~25	10	39	90	29
ACK5-080	ABJ12	6~32	12	50	80	36
ACK6-065	ABJ16	6~50	16	64	65	45
NBJ16-65	NBJ16	6~50	16	63	65	50

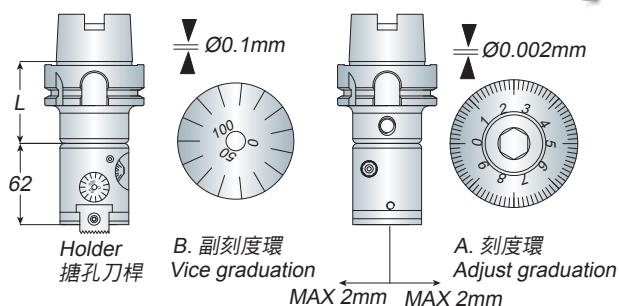
Unit: mm

HBOR50 Micro Boring System

HBOR50 微調搪孔系統組

HBOR

HSK-A series



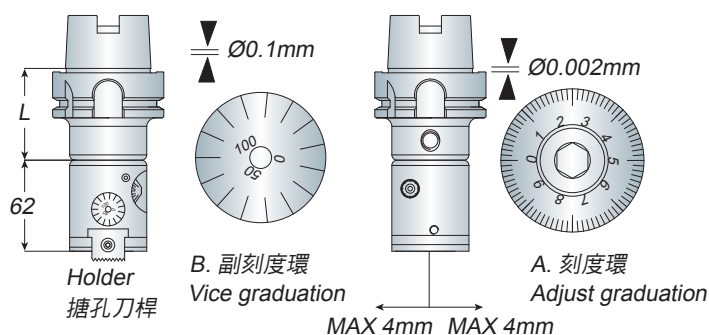
Model No.	Boring Range	L	Weight (kg)
HSK63A HBOR50/SET	6~90	50	11.00

Unit: mm

- HBOR50 micro boring system which boring range is from 6 ~ 90mm.
- The inside diameter of HBOR50 micro boring system is 16mm.
- HBOR50 boring set => refer to P.95
- Insert must be ordered separately.
- HBOR50 微調搪孔系統組：搪孔範圍 6 ~ 90mm
- HBOR50 微調搪孔本體中的內孔為 16mm
- HBOR50 整組規格 => 請參考 P.95
- 刀片為另購品

HBOR63 Micro Boring System

HBOR63 微調搪孔系統組



Model No.	Boring Range	L	Weight (kg)
HSK63A HBOR63/SET	6~150	67	12.00

Unit: mm

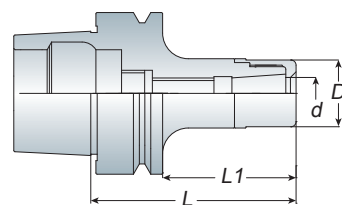
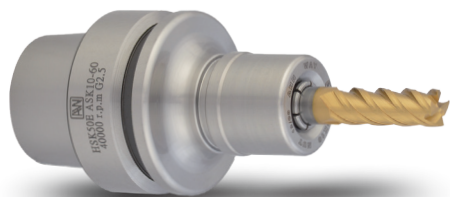
- HBOR63 micro boring system which boring range is from 6 ~ 150mm.
- The inside diameter of HBOR63 micro boring system is 16mm.
- HBOR63 boring set => refer to P.96
- HBOR63 boring head can match BM140 series for optional. It can extend boring range to 280mm (6 ~ 280mm). => refer to P.97
- Insert must be ordered separately.
- HBOR63 微調搪孔系統組：搪孔範圍 6 ~ 150mm
- HBOR63 微調搪孔本體中的內孔為 16mm
- HBOR63 整組規格 => 請參考 P.96
- HBOR63 微調搪孔系統組可另選配 BM 系列，使其搪孔範圍延展至 280mm (6 ~ 280mm) => 請參考 P.97
- 刀片為另購品

HSK-E series

ASK

High Speed Collet Chuck

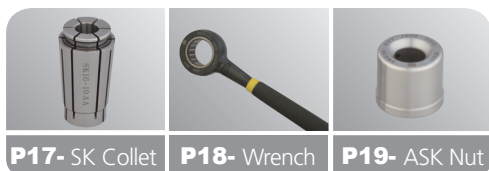
高轉速精密筒夾本體



- ASK tooling systems are suitable for high speed and high precision cutting.
- Special nut design provides better cutting condition and reducing cutting vibration.
- ASK collet can achieve the best cutting condition when using AA grade.
- Wrench must be ordered separately.
- Max speed: 40,000 r.p.m G2.5
- ASK 系列適用於高轉速、高精密切削加工，切削效果佳
- 螺帽獨特設計可降低高轉速切削時的風阻及噪音並提升工作效能
- 欲達到切削效果佳，可搭配使用 AA 級筒夾
- ASK 扳手為另購品
- 最高轉速可達 40,000 r.p.m G2.5

Model No.	Clamping Range (d)	D	L1	L	Weight (kg)
HSK32E ASK06-050	2~6	19.05	30	50	0.17
ASK10-060	2~10	27	40	60	0.26
HSK40E ASK06-060	2~6	19.05	40	60	0.50
ASK10-060	2~10	27	40	60	0.50
-080	2~10	27	55	75	0.60
ASK16-080	3~16	40	60	80	0.80
HSK50E ASK06-080	2~6	19.05	54	80	0.70
ASK10-060	2~10	27	34	60	0.70
-080	2~10	27	54	80	0.80
ASK16-080	3~16	40	54	80	1.00

Unit: mm

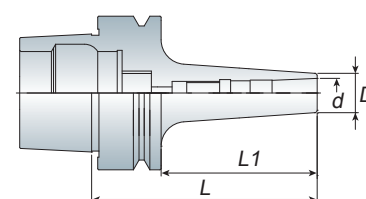
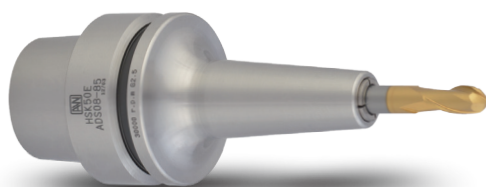


P17- SK Collet P18- Wrench P19- ASK Nut

ADS

High Speed Collet Chuck

後拉式夾頭刀桿



- ADS tool holder is suitable for high-speed and high precision cutting. Tool holder designed without nut could reduce cutting vibration.
- Wrench is attached for each ADS tool holder.
- Max Speed: 40,000 r.p.m G2.5
- ADS 刀桿適用於高速精密加工。無螺帽設計，降低加工時物件干涉
- 筒夾後拉式設計，操作簡易
- 每支 ADS 刀桿均附 1 支扳手
- 最高轉速可達 40,000 r.p.m G2.5

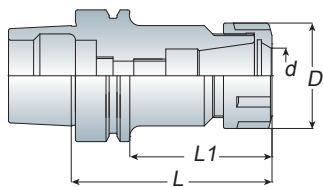
- ADS06, ADS08: 5mm Hex-Wrench
- ADS12: 8mm Hex-Wrench
- ADS06, ADS08 使用 5mm 六角扳手
- ADS12 使用 8mm 六角扳手

Model No.	Clamping Range (d)	D	L1	L	Weight (kg)
HSK40E ADS06-080	2~6	13	60	80	0.40
-090	2~6	13	70	90	0.50
ADS08-080	3~8	16	60	80	0.50
HSK50E ADS06-075	2~6	13	49	75	0.60
ADS08-085	3~8	16	59	85	0.70
ADS12-125	3~12	23	99	125	1.00

Unit: mm



P23- ADS Collet



Collet Chuck

彈性筒夾本體

Model No.	Clamping Range (d)	D	L	L1	Collet Type	Wrench	Weight (kg)
HSK40E ER16-080	1~10	28	80	60	ER16	WER16	0.50
ER20-080	1~13	34	80	60	ER20	WER20	0.60
ER25-080	2~16	42	80	60	ER25	WER25	0.80
HSK50E ER16-100	1~10	28	100	74	ER16	WER16	0.80
ER20-100	1~13	34	100	74	ER20	WER20	0.90
ER25-100	2~16	42	100	74	ER25	WER25	1.10
ER32-100	2~20	50	100	74	ER32	WER32	1.30

Unit: mm

ER

HSK-E
series



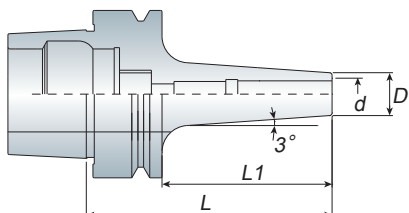
- ER collet chuck with the flexibility that can clamp drill, reamers, end mills and taps.
- ER collet chuck is also suitable for ER bearing nut and wrench.
- Wrench must be ordered separately.
- Max speed: 40,000 r.p.m G2.5
- ER 筒夾具有彈性，適合夾持鑽頭、鉸刀、銑刀及絲攻刀具
- ER 刀桿可另外選配 ER 鋼珠螺帽及扳手
- ER 扳手為另購品
- 最高轉速可達 40,000 r.p.m G2.5



P14- ER Nut

P11- ER Collet

P14- Wrench



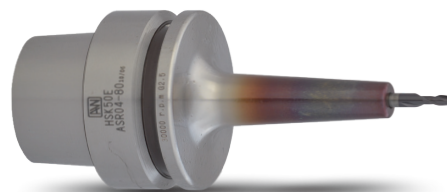
Shrink Chuck

燒結式刀桿

Model No.	d	D	L	L1	Weight (kg)
HSK40E ASR04-080	4	14	80	60	0.40
ASR06-080	6	16	80	60	0.40
ASR08-080	8	18	80	60	0.50
ASR10-080	10	22	80	60	0.50
ASR12-080	12	24	80	60	0.50
HSK50E ASR04-080	4	14	80	54	0.60
ASR06-080	6	16	80	54	0.60
ASR08-080	8	18	80	54	0.70
ASR10-080	10	22	80	54	0.70
ASR12-080	12	24	80	54	0.70

Unit: mm

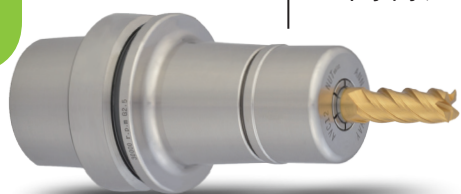
ASR



- Heater specification => refer to P.24
- Tools are restricted by material of h6 carbide tool.
- Max speed: 40,000 r.p.m G2.5
- 刀桿加熱器規格請參考 P.24
- 刀具限用 h6 鎢鋼刀具
- 最高轉速可達 40,000 r.p.m G2.5

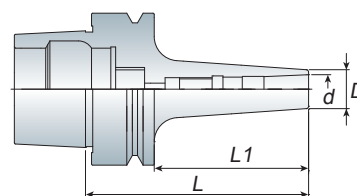
HSK-E series

AVC



High Speed Collet Chuck

高轉速高精度立銑刀本體



- AVC long type collet with angle 8° increases clamping force and cutting rigidity and precision.
- Special nut design provides better cutting conditions and reducing cutting vibrations.
- Wrench must be ordered separately.
- Max Speed: 40,000 r.p.m G2.5
- 8° 長筒夾設計提升高夾持力，高剛性及高精度
- 刀桿柄壁的增厚設計大幅提升切削剛性
- 螺帽獨特設計可降低高轉速切削時的風阻及噪音並提升工作效能
- AVC 扳手為另購品
- 最高轉速可達 40,000 r.p.m G2.5

Model No.	Clamping Range (d)	D	L	L1	Weight (kg)
HSK40E AVC06-070	2~6	27	70	50	0.50
-090	2~6	27	90	70	0.70
AVC10-090	3~10	33	90	70	0.80
AVC12-090	3~12	40	90	70	0.80
HSK50E AVC06-070	2~6	27	70	44	0.70
-090	2~6	27	90	64	0.80
AVC10-090	3~10	33	90	64	1.00
AVC12-090	3~12	40	90	64	1.00

Unit: mm



P21- AVC Collet

P21- AVC Nut

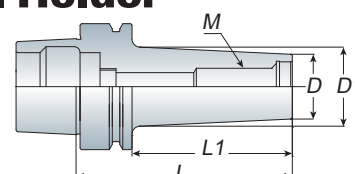
P21- Wrench

AMD



Screw-in Endmill Holder

圓刀銑刀桿



- Max Speed: 40,000 r.p.m G2.5
- 最高轉速可達 40,000 r.p.m G2.5

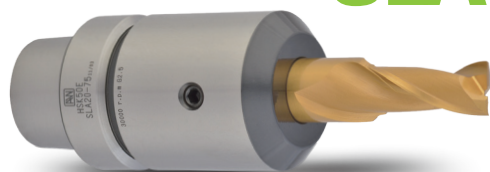


P81-End Mills

Model No.	M	D	D1	L	L1	Weight (kg)
HSK40E AMD123-060	6	11	17	60	33	0.40
AMD122-060	6	11	19	60	35	0.40
AMD202-060	10	18	23	60	33	0.50
HSK50E AMD123-060	6	11	17	60	25	0.70
AMD122-060	6	11	17	60	25	0.70
AMD202-060	10	18	22	60	24	0.85

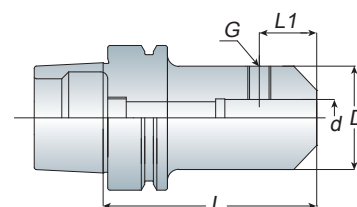
Unit: mm

SLA



End Mill Holder (For 3D Sensor)

側固端銑刀桿



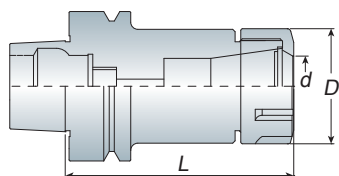
- Max Speed: 40,000 r.p.m G2.5
- 最高轉速可達 40,000 r.p.m G2.5

Model No.	d	D	L	L1	G	Weight (kg)
HSK40E SLA20-070	20	40	70	25	M8x1.25P	0.70
HSK50E SLA20-075	20	50	75	25	M8x1.25P	1.10

Unit: mm

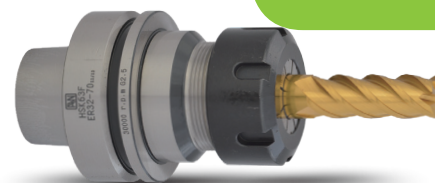
Spring Collet Chuck

彈性筒夾本體



ER

HSK-F
series



Model No.	Clamping Range (d)	D	L	Collet Type	Wrench	Weight (kg)
HSK63F ER16-080	1~10	28	80	ER16	WER16	0.90
-100	1~10	28	100	ER16	WER16	1.10
ER20-080	1~13	34	80	ER20	WER20	1.00
-100	1~13	34	10	ER20	WER20	1.30
ER25-080	2~16	42	80	ER25	WER25	1.10
-100	2~16	42	100	ER25	WER25	1.30
ER32-080	2~20	50	80	ER32	WER32	1.20
-100	2~20	50	100	ER32	WER32	1.40
ER40-080	3~26	63	80	ER40	WER40	1.40
-100	3~26	63	100	ER40	WER40	1.60

Unit: mm

- ER collet chuck with the flexibility that can clamp drill, reamers, end mills and taps.
- ER collet chuck is also suitable for ER bearing nut and wrench.
- Wrench must be ordered separately.
- Max speed: 40,000 r.p.m G2.5
- ER 筒夾具有彈性，適合夾持鑽頭、鉸刀、銑刀及絲攻刀具
- ER 刀桿可另外選配 ER 鋼珠螺帽及扳手
- ER 扳手為另購品
- 最高轉速可達 40,000 r.p.m G2.5



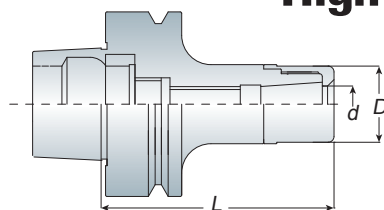
P14- ER Nut

P11- ER Collet

P14- Wrench

High Speed Collet Chuck

高轉速精密筒夾本體



ASK



Model No.	Clamping Range (d)	D	L	Wrench	Weight (kg)
HSK63F ASK10-080	2~10	27	80	WASK10	1.00
ASK16-080	3~16	40	80	WASK16	1.10
ASK25-090	6~25.4	54	90	WASK25	1.50

Unit: mm

- ASK tooling systems are suitable for high speed and high precision cutting.
- Special nut design provides better cutting condition and reducing cutting vibration.
- ASK collet can be achieve the best cutting condition when using AA grade.
- Wrench must be ordered separately.
- Max speed: 40,000 r.p.m G2.5
- ASK 系列適用於高轉速、高精密切削加工，切削效果佳
- 螺帽獨特設計可降低高轉速切削時的風阻及噪音並提升工作效能
- 欲達到切削效果佳，可搭配使用 AA 級筒夾
- ASK 扳手為另購品
- 最高轉速可達 40,000 r.p.m G2.5



P17- SK Collet

P18- Wrench

P19- ASK Nut

120

Ann Way



HSK series

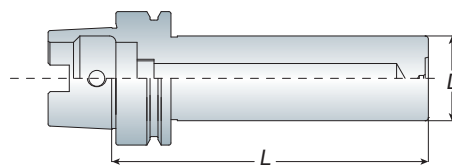
TA



- Test arbor is used to measure the runout of machine spindle.
- Taper Contact > 85%
- 測試棒為測量機台主軸精準度用
- 錐度密合度 > 85%

Test Bar

測試棒



Model No.	D	L	Roundness 真圓度	Concentricity 同心度	Weight (kg)
HSK32A+E TA25-200	25	200	< 0.003	< 0.005	1.20
HSK40A+E TA30-200	30	200			1.80
HSK50A+E TA30-250	30	250			2.20
HSK63A+E TA40-300	40	300			4.30
HSK100A+E TA50-300	50	300			7.00

Unit: mm



FIG.1

FIG.2

- FIG.1: Vertical and horizontal type
- FIG.2: Bearing type

Locking Device

鎖刀座

Model No.	FIG.	Holder Type 刀桿型式	Weight (kg)
LD-HSK32-FIG.1	1	HSK32E	5.50
LD-HSK40-FIG.1		HSK40A+C+E	5.90
LD-HSK50-FIG.1		HSK50A+C+E	6.30
LD-HSK63-FIG.1		HSK63A+C+E+F	6.70
LD-HSK100-FIG.1		HSK100A+C+E	7.90
LD-HSK40-FIG.2	2	HSK40A+C+E	3.10
LD-HSK50-FIG.2		HSK50A+C+E	3.40
LD-HSK63-FIG.2		HSK63A+C+E+F	4.00

Unit: mm

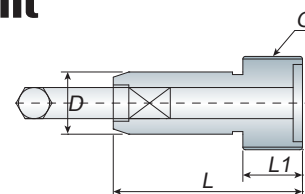
HSK



- Wrench must be ordered separately.
- 扳手為另購品

Coolant Supply Unit

專用冷卻液管



Model No.	D	L	L1	G	Wrench (六角)	Weight (kg)
HSK40A-M12	8	29.5	7.5	M12x1.0P	W4	0.03
HSK50A-M16	10	33	9.5	M16x1.0P	W5	0.04
HSK63A-M18	12	36	11.4	M18x1.0P	W6	0.05
HSK100A-M24	16	44	15.5	M24x1.5P	W8	0.06

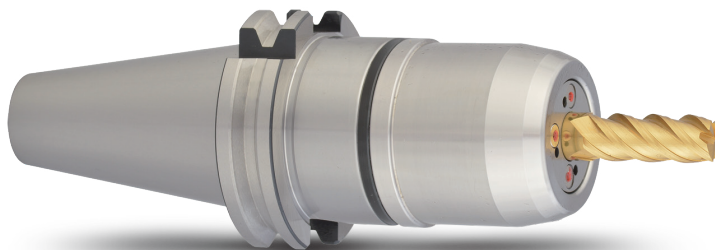
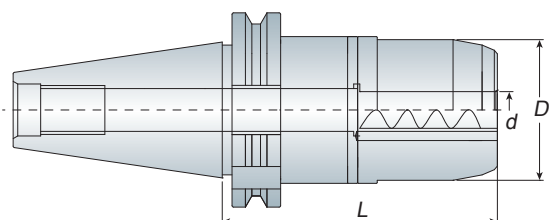
Unit: mm

Double Power Chuck

超倍力夾頭刀桿

AMG

SK
series
DIN 69871A



Features

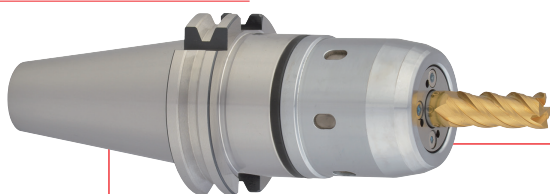
- AMG tooling system is suitable for high speed and heavy cutting simultaneously.
- AMG tooling system is special designed for coolant type - JET THROUGH.
- High precision clamping because of the design of needle roller bearing.
- The spacer could make the flange & nut be tightened and provide exceptional rigidity.
- Wrench must be ordered separately.
- Max speed: 30,000 r.p.m G2.5
- AMG 刀桿系列可同時在高速切削及重切削上使用
- AMG 刀具系列為端面給油設計
- 刀桿採用針狀軸承設計，夾持度極佳
- 螺帽透過墊片與本體貼合使之提高剛性
- AMG 扳手為另購品
- 最高轉速可達 30,000 r.p.m G2.5

Model No.	d	D	L	Wrench	Weight (kg)
SK40 AMG12-090	12	46	90	WAMG12	1.60
AMG16-100	16	54	100	WAMG16	2.30
AMG20-110	20	58	110	WAMG20	2.40
AMG25-110	25	62	110	WAMG25	2.60
AMG32-110	32	70	110	WAMG32	2.70
SK50 AMG12-090	12	46	90	WAMG12	4.60
AMG16-110	16	54	110	WAMG16	4.90
AMG20-110	20	58	110	WAMG20	4.90
AMG25-110	25	62	110	WAMG25	4.90
AMG32-110	32	70	110	WAMG32	5.00

Unit: mm



P6- Wrench



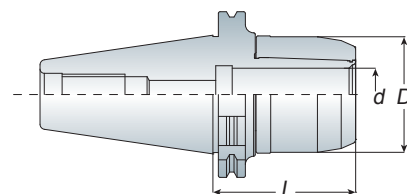
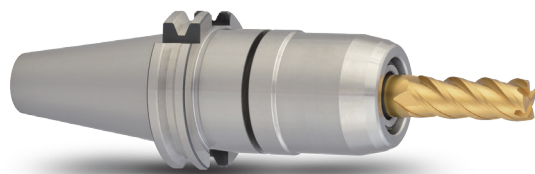
- **AMG Double Power Chuck** with nut for C-WRENCH is available.
- Please change name from AMG to AMC of each model no. when ordering.
- 螺帽部分為 C 型系列，訂購時，請更改品名為 AMC
- Example: SK40 AMC16-100

SK
series
DIN 69871A

ASG

High Speed Milling Chuck

高轉速強力銑刀夾頭刀桿



- ASG tooling system is suitable for high speed and high precision cutting.
- When using without collet, ASG tooling system is designed for coolant type - THROUGH TOOLS.
- Dust-proof design could extend tool holder lifetime.
- Wrench must be ordered separately.
- Max speed: 30,000 r.p.m G2.5
- ASG 刀具系列適用於高轉速、高精密切削加工，切削效果佳
- 在沒有搭配筒夾的情況下使用，ASG 刀具系列為刀尖給油設計
- 特殊防塵設計，提升刀桿壽命
- 扳手為另購品
- 最高轉速可達 30,000 r.p.m G2.5



P6- Wrench

P6- SC Collet

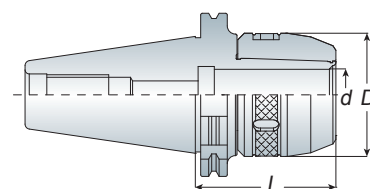
Model No.	Clamping Range	d	D	L	Collet Type	Weight (kg)
SK40 ASG12-090	3~12	12	35	90	SC12	1.40
ASG16-090	3~16	16	46	90	SC16	1.80
ASG20-090	4~20	20	54	90	SC20	2.00
SK50 ASG12-075	3~12	12	35	75	SC12	3.20
-105	3~12	12	35	105	SC12	3.50
ASG16-105	3~16	16	46	105	SC16	4.10
ASG20-105	4~20	20	54	105	SC20	4.40

Unit: mm

ASC

Milling Chuck

強力銑刀夾頭刀桿



- C-type wrench is attached for each ASC milling chuck.
- 每支 ASC 刀桿均附 1 支 C 型扳手



P6- Wrench

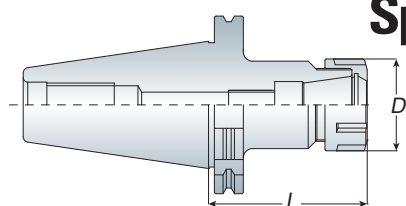
P6- SC Collet

Model No.	Clamping Range	d	D	L	Collet Type	Weight (kg)
SK40 ASC16-090	3~16	16	46	90	SC16	1.80
ASC20-090	4~20	20	53	90	SC20	2.00
ASC25-095	6~25	25	58	95	SC25	2.00
-130	6~25	25	58	130	SC25	2.70
ASC32-095	6~32	32	68	95	SC32	2.20
-130	6~32	32	68	130	SC32	3.00
SK50 ASC16-105	3~16	16	46	105	SC16	4.00
ASC20-105	4~20	20	53	105	SC20	4.20
ASC25-095	6~25	25	58	95	SC25	4.10
-150	6~25	25	58	150	SC25	5.00
ASC32-105	6~32	32	68	105	SC32	4.70
-150	6~32	32	68	150	SC32	5.90
ASC42-110	6~42	42	84	110	SC42	5.00
-160	6~42	42	84	160	SC42	7.10

Unit: mm

Spring Collet Chuck

彈性筒夾本體



Model No.	Clamping Range	D	L	Collet Type	Wrench	Weight (kg)
SK40 ER16-070	1~10	28	70	ER16	WER16	1.30
-100	1~10	28	100	ER16	WER16	1.40
-150	1~10	28	150	ER16	WER16	1.60
ER20-080	1~13	34	80	ER20	WER20	1.40
-100	1~13	34	100	ER20	WER20	1.50
-150	1~13	34	150	ER20	WER20	1.80
ER25-080	2~16	42	80	ER25	WER25	1.50
-100	2~16	42	100	ER25	WER25	1.70
-150	2~16	42	150	ER25	WER25	2.00
ER32-070	2~20	50	70	ER32	WER32	1.40
-100	2~20	50	100	ER32	WER32	1.80
ER40-080	3~26	63	80	ER40	WER40	1.60
-100	3~26	63	100	ER40	WER40	1.90
SK50 ER16-100	1~10	28	100	ER16	WER16	3.20
-150	1~10	28	150	ER16	WER16	3.50
ER20-100	1~13	34	100	ER20	WER20	3.40
-150	1~13	34	150	ER20	WER20	3.70
ER25-100	2~16	42	100	ER25	WER25	3.50
-150	2~16	42	150	ER25	WER25	3.80
ER32-100	2~20	50	100	ER32	WER32	3.50
-150	2~20	50	150	ER32	WER32	3.80
ER40-100	3~26	63	100	ER40	WER40	3.80
-150	3~26	63	150	ER40	WER40	4.10

Unit: mm

ER

SK
series
DIN 69871A

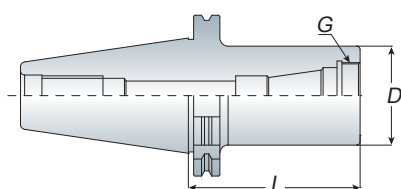


- ER collet chuck with the flexibility that can clamp drill, reamers, end mills and taps.
- ER16 / ER20 holder can make M type as your choice.
- ER collet chuck is also suitable for ER bearing nut and wrench.
- ER spring collet chuck - long type upon your request.
- Wrench must be ordered separately.
- ER 筒夾具有彈性，適合夾持鑽頭、鉸刀、銑刀及絲攻刀具
- ER16 / ER20 刀桿另有 M 型可供選擇
- ER 刀桿可另外選配 ER 鋼珠螺帽及扳手
- 亦有生產 ER 加長型刀桿，可另詢問
- ER 扳手為另購品



High Speed Collet Chuck

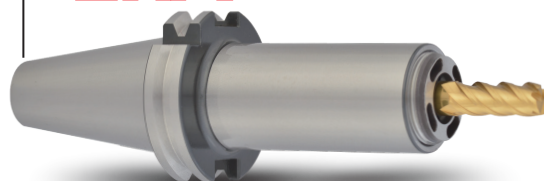
高速彈性筒夾本體



Model No.	D	L	G	Weight (kg)
SK40 ERA11-100	22	100	M18x1.0P	1.20
ERA16-100	28	100	M24x1.0P	1.30
ERA20-100	32	100	M28x1.5P	1.40
ERA25-100	38	100	M32x1.5P	1.40
ERA32-100	46	100	M40x1.5P	1.50
SK50 ERA11-100	22	100	M18x1.0P	3.40
ERA16-100	28	100	M24x1.0P	3.50
ERA20-100	32	100	M28x1.5P	3.60
ERA25-100	38	100	M32x1.5P	3.70
ERA32-100	46	100	M40x1.5P	4.00

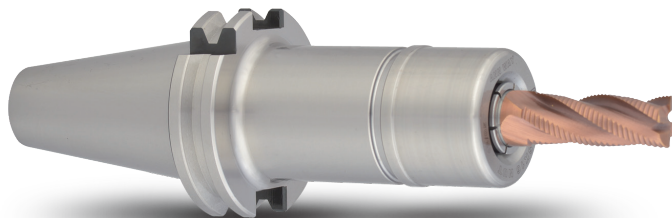
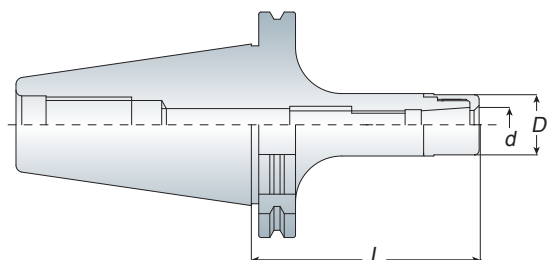
Unit: mm

ERA



- The clamping nuts for ERA are special designed to be fitted internally into the holder. The special design could provide better cutting conditions and reducing cutting vibrations.
- Wrench must be ordered separately.
- Max speed: 30,000 r.p.m G2.5
- 特殊內藏式螺帽設計：可降低及減少切削時所產生的阻力與振動，並提升加工品質及穩定性
- ERA 扳手為另購品
- 最高轉速可達 30,000 r.p.m G2.5





Features

- ASK tooling systems are suitable for high speed and high precision cutting.
- Special nut design provides better cutting condition and reducing cutting vibration.
- ASK collet can be achieve the best cutting condition when using AA grade.
- Wrench must be ordered separately.
- Max speed: 30,000 r.p.m G2.5
- ASK 系列適用於高轉速、高精密切削加工，切削效果佳
- 螺帽獨特設計可降低高轉速切削時的風阻及噪音並提升工作效能
- 欲達到切削效果佳，可搭配使用 AA 級筒夾
- ASK 扳手為另購品
- 最高轉速可達 30,000 r.p.m G2.5



P17- SK Collet

P18- Wrench

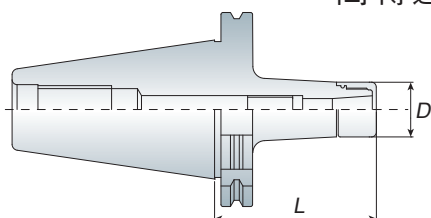
P19- ASK Nut

Model No.	Clamping Range (d)	D	L	Weight (kg)
SK30 ASK06-055	2~6	20	55	0.60
ASK10-070	2~10	27	70	0.70
-095	2~10	27	95	0.80
ASK16-060	3~16	40	60	0.90
-085	3~16	40	85	1.00
-100	3~16	40	100	1.10
ASK25-085	6~25.4	54	85	1.20
SK40 ASK06-080	2~6	20	80	1.10
-100	2~6	20	100	1.30
ASK10-080	2~10	27	80	1.20
-100	2~10	27	100	1.40
ASK13-080	3~13	33	80	1.30
-100	3~13	33	100	1.50
ASK16-080	3~16	40	80	1.40
-100	3~16	40	100	1.50
ASK25-095	6~25.4	54	95	1.90
-110	6~25.4	54	110	2.00
SK50 ASK06-100	2~6	20	100	3.00
ASK10-100	2~10	27	100	3.30
-130	2~10	27	130	3.40
-150	2~10	27	150	3.50
ASK13-100	3~13	33	100	4.50
-130	3~13	33	130	4.70
-150	3~13	33	150	4.90
ASK16-100	3~16	40	100	3.50
-130	3~16	40	130	3.70
-150	3~16	40	150	3.90
ASK25-100	6~25.4	54	100	3.80
-130	6~25.4	54	130	4.00
-150	6~25.4	54	150	4.20

Unit: mm

High Speed Collet Chuck

高轉速高精度立銑刀本體



Model No.	Clamping Range	D	L	Weight (kg)
SK40 AVC06-090	2~6	27	90	1.30
AVC10-090	3~10	33	90	1.40
AVC12-090	3~12	40	90	1.50
SK50 AVC06-105	2~6	27	105	3.90
AVC10-105	3~10	33	105	4.10
AVC12-105	3~12	40	105	4.20

Unit: mm

AVC

SK
series
DIN 69871A

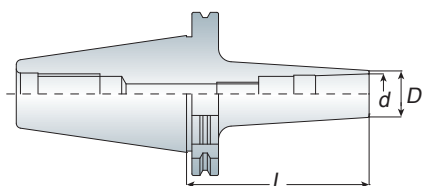


- AVC Long type collet with angle 8° increases clamping force, cutting rigidity and precision.
- Special nut design provides better cutting conditions and reducing cutting vibrations.
- Wrench must be ordered separately.
- Max Speed: 30,000 r.p.m G2.5
- 8° 長筒夾設計提升高夾持力，高剛性及高精度
- 刀桿柄壁的增厚設計大幅提升切削剛性
- 螺帽獨特設計可降低高轉速切削時的風阻及噪音並提升工作效能
- AVC 扳手為另購品
- 最高轉速可達 30,000 r.p.m G2.5



High Speed Collet Chuck

後拉式夾頭刀桿



- ADS06, ADS08: 5mm Hex-Wrench
- ADS12, ADS16: 8mm Hex-Wrench
- ADS06, ADS08 使用 5mm 六角扳手
- ADS12, ADS16 使用 8mm 六角扳手

Model No.	Clamping Range (d)	D	L	Weight (kg)
SK30 ADS06-080	2~6	13	80	0.55
ADS08-080	3~8	16	80	0.60
ADS12-085	3~12	23	85	0.65
SK40 ADS06-090	2~6	13	90	1.10
-120	2~6	13	120	1.30
-150	2~6	13	150	1.50
ADS08-090	3~8	16	90	1.20
-120	3~8	16	120	1.40
-150	3~8	16	150	1.60
ADS12-090	3~12	23	90	1.30
-135	3~12	28	135	1.70
ADS16-095	5~16	28	95	1.40
SK50 ADS08-100	3~8	16	100	3.20
ADS12-100	3~12	23	100	3.40
ADS16-100	5~16	28	100	3.30

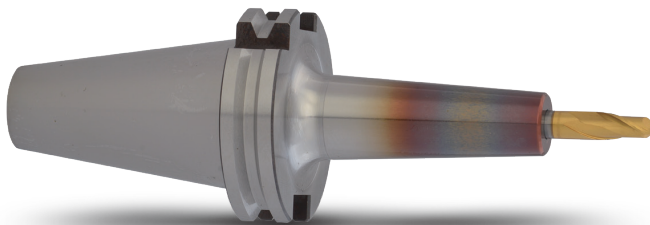
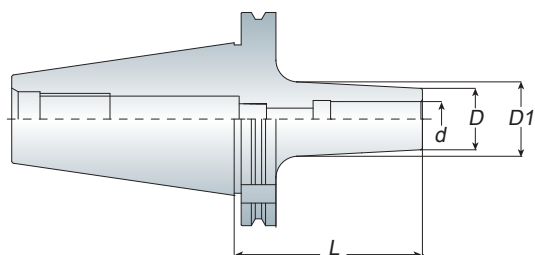
Unit: mm

ADS



- ADS tool holder is suitable for high-speed and high precision cutting. Tool holder designed without nut could reduce cutting vibration.
- Wrench is attached for each ADS tool holder.
- Max Speed: 30,000 r.p.m G2.5
- ADS 刀桿適用於高速精密加工。無螺帽設計，降低加工時物件干涉
- 筒夾後拉式設計，操作簡易
- 每支 ADS 刀桿均附 1 支扳手
- 最高轉速可達 30,000 r.p.m G2.5





Features

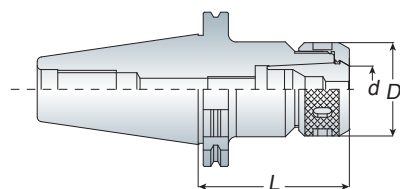
- Heater specification => refer to P.24
- Tools are restricted by material of h6 carbide tool.
- 刀桿加熱器規格請參考 P.24
- 刀具限用 h6 鎢鋼刀具

Model No.	d	D	D1	L	Weight (kg)
SK40 ASR04-090	4	14	20	90	1.20
ASR05-090	5	16	22	90	1.20
ASR06-090	6	16	22	90	1.20
ASR08-090	8	18	24	90	1.20
ASR10-090	10	22	28	90	1.30
ASR12-090	12	24	30	90	1.30
ASR16-090	16	28	34	90	1.30
ASR20-100	20	34	41	100	1.50
ASR25-100	25	44	51	100	1.50
ASR32-100	32	44	51	100	1.55
SK50 ASR06-105	6	16	21	105	3.90
ASR08-105	8	18	25	105	4.00
ASR10-105	10	22	29	105	4.20
ASR12-105	12	24	31	105	4.40
ASR16-105	16	28	35	105	4.40
ASR20-105	20	34	41	105	4.70
ASR25-105	25	44	51	105	4.70
ASR32-105	32	44	51	105	5.00

Unit: mm

Collet Chuck

重切削筒夾本體



Model No.	d	D	L	Collet Type	Weight (kg)
SK40 OZ25-070	3~25	60	70	OZ25	1.50
-100	3~25	60	100	OZ25	2.40
OZ32-090	6~32	72	90	OZ32	2.10
SK50 OZ25-100	3~25	60	100	OZ25	4.00
OZ32-100	6~32	72	100	OZ32	4.30

Unit: mm

OZ

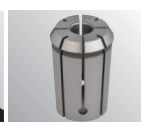
SK
series
DIN 69871A



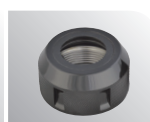
- OZ collet chuck can clamp drill, end mills and taps.
- Wrench must be ordered separately.
- OZ 重切削刀桿可用於夾持鑽頭、銑刀及絲攻刀具
- OZ 扳手為另購品



P26- Wrench



P26- OZ Collet



P26- OZ Nut

End Mill Holder - Weldon

側固端銑刀桿 (歐規)

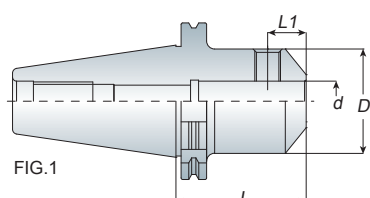


FIG.1

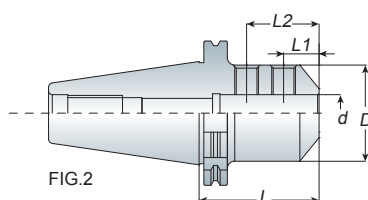
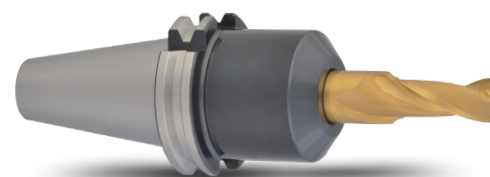


FIG.2

Model No.	FIG.	d	D	L	L1	L2	Weight (kg)
SK40 EM06-050	1	6	25	50	18	-	1.00
EM08-050	1	8	28	50	18	-	1.00
EM10-050	1	10	35	50	20	-	1.10
EM12-050	1	12	42	50	22.5	-	1.20
EM16-063	1	16	48	63	24	-	1.40
EM20-063	1	20	52	63	25	-	1.40
EM25-100	2	25	65	100	24	49	2.30
EM32-100	2	32	72	100	24	52	2.60
SK50 EM06-063	1	6	25	63	18	-	2.90
EM08-063	1	8	28	63	18	-	3.00
EM10-063	1	10	35	63	20	-	3.10
EM12-063	1	12	42	63	22.5	-	3.30
EM16-063	1	16	48	63	24	-	3.30
EM20-063	1	20	52	63	25	-	3.30
EM25-080	2	25	65	80	24	49	4.00
EM32-100	2	32	72	100	24	52	4.80
EM40-110	2	40	90	110	30	62	5.60
EM50-110	2	50	100	110	35	70	6.40

Unit: mm

EM



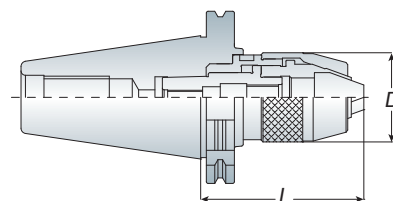
- For straight shank end mill.
- End mill is held by one (FIG.1) or two (FIG.2) set screws.
- End mill holder comes equipped with set screws.
- 適用於夾持直柄銑刀，可用在一般銑削加工
- 夾持銑刀之固定螺絲分為一個 (FIG.1) 或兩個 (FIG.2)
- 刀桿本身已裝配固定螺絲

SK
series
DIN 69871A

APU

Drill Chuck Holder

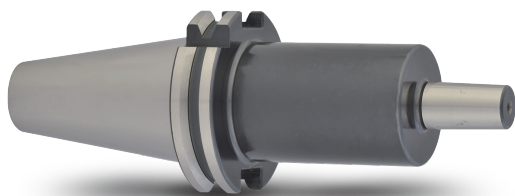
直截式鑽夾頭刀桿



- The shank and keyless drill chuck are combined together so that to avoid the drill chuck slipping out for heavy-duty and high-speed cutting.
- Wrench is attached for each APU drill chuck holder.
- APU 刀桿和鑽夾頭結為一體，可避免鑽頭於高速及重切削時掉落或鬆脫
- 每支 APU 刀桿均附 1 支扳手

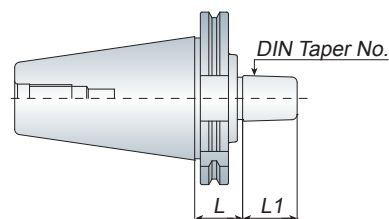
Model No.	Clamping Range	D	L		Weight (kg)
			Min.	Max.	
SK30 APU08-063	1~8	36.3	57	64.5	0.90
APU13-100	1~13	51.5	88	99	1.60
SK40 APU08-085	1~8	36.3	69	86.5	1.40
APU13-100	1~13	51.5	88	99	1.80
APU16-120	3~16	58	106	120	2.40
SK50 APU13-120	1~13	51.5	99	120	4.10
-170	1~13	51.5	159	170	5.20
APU16-120	3~16	58	106	120	4.40
-180	3~16	58	166	180	5.50

Unit: mm



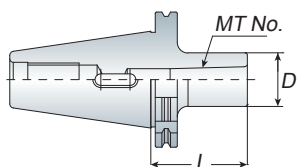
Drill Chuck Holder - B Type

鑽夾頭刀桿 - B 型



Model No.	DIN Taper No.	L	L1	Weight (kg)
SK40 B16	B16	32	24	1.20
B18	B18	32	32	1.30
SK50 B16	B16	43	24	2.80
B18	B18	43	32	3.00

Unit: mm

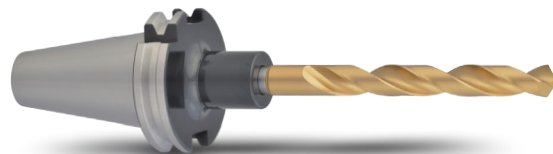


Morse Taper Holder

莫氏錐度刀桿 - A 型

MTA

SK
series
DIN 69871A



- The tool holder for morse taper shank with internal tang.

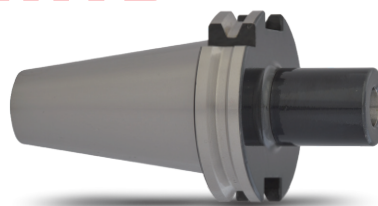
Model No.	MT. No.	D	L	Capacity			Weight (kg)
				Drill	Reamer	End Mill	
SK30 MTA1-050	MTA1	25	50	2~14	5~14	10~14	0.50
MTA2-065	MTA2	32	65	14~23	14.5~23	16~22	0.70
MTA3-080	MTA3	40	80	23~32	24~32	24~32	0.80
SK40 MTA1-050	MTA1	25	50	2~14	5~14	10~14	1.00
MTA2-050	MTA2	32	50	14~23	14.5~23	16~22	1.00
MTA3-070	MTA3	40	70	23~32	24~32	24~32	1.10
MTA4-095	MTA4	50	95	32~50	32~50	35~50	1.50
SK50 MTA1-045	MTA1	25	45	2~14	5~14	10~14	2.80
MTA2-060	MTA2	32	60	14~23	14.5~23	16~22	3.00
MTA3-065	MTA3	40	65	23~32	24~32	24~32	3.00
MTA4-095	MTA4	50	95	32~50	32~50	35~50	3.40
MTA5-120	MTA5	65	120	50~75	50	40~75	3.50

Unit: mm

Morse Taper Holder

莫氏錐度刀桿 - B 型

MTB



- The tool holder for morse taper shank with internal draw bolt thread.
- MTB-FIG.2 type should be fitted for extension pull stud.
- MTB-FIG.2 刀桿需配合 MTB 長拉頭使用

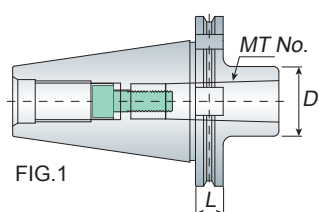


FIG.1

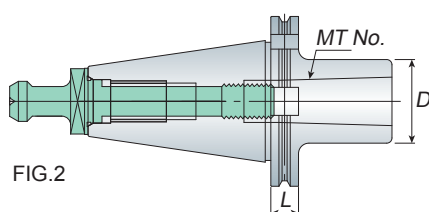


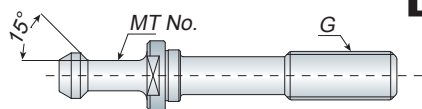
FIG.2

Model No.	FIG.	MT. No.	D	L	Capacity			Weight (kg)
					Drill	Reamer	End Mill	
SK40 MTB1-050	1	MTB1	25	50	2~14	5~14	10~14	1.00
MTB2-050	1	MTB2	32	50	14~23	14.5~23	16~22	1.10
MTB3-070	1	MTB3	40	70	23~32	24~32	24~32	1.20
MTB4-090	2	MTB4	50	90	32~50	32~50	35~50	1.40
SK50 MTB1-045	1	MTB1	25	45	2~14	5~14	10~14	2.90
MTB2-060	1	MTB2	32	60	14~23	14.5~23	16~22	3.00
MTB3-065	1	MTB3	40	65	23~32	24~32	24~32	3.10
MTB4-070	1	MTB4	50	70	32~50	32~50	35~50	3.20
MTB5-105	2	MTB5	65	105	50~75	50	40~75	4.10

Unit: mm

Extension Pull Stud

長拉頭



Model No.	MT. No.	G	Weight (kg)
MTB4-DIN69872A (M16)	MTB4	M16x2.0P	0.20
MTB5-DIN69872A (M20)	MTB5	M20x2.5P	0.50

Unit: mm



- The extension pull stud must be ordered separately.
- MTB 長拉頭為另購品

SK
series
DIN 69871A

TPM



- L1: Compression, L2: Tension
- Quick change: Push back on the holder sleeve, and the tap collet is removable easily.



P40- Tap Collet



ART

- ART tap holder is without floating.
- Tap collet is easy and quick to change.
- Torque control type and positive drive type tap collets can be used for ART tap holder.
- ART 剛性攻牙本體不具伸縮功能
- 絲攻筒夾易更換
- 扭力絲攻筒夾及剛性絲攻筒夾皆適用



ATP

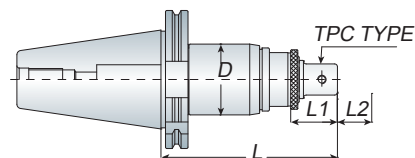
- ATP tap holder is with tension and compression, so it can extend the tap lifetime.
- Torque control type and positive drive type tap collets can be used for ATP tool holder.
- ATP 伸縮攻牙本體具有伸縮功能，能延長絲攻使用壽命
- 扭力絲攻筒夾及剛性絲攻筒夾皆適用



P45/46-ATC Collet

Tension & Compression Tap Holder

扭力伸縮攻牙本體

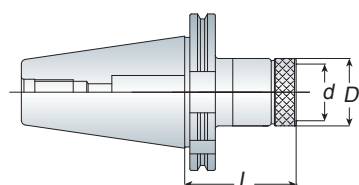


Model No.	D	L	L1	L2	Tapping Range	Collet Type	Weight (kg)
SK40 TPM316	48	145	10	20	M3~16	TPC316	1.50
SK50 TPM316	48	190	10	20	M3~16	TPC316	3.10
SK40 TPM830	66	145	10	25	M8~30	TPC830	2.50
SK50 TPM830	66	190	10	25	M8~30	TPC830	3.40

Unit: mm

Rigid Tap Holder

剛性攻牙本體

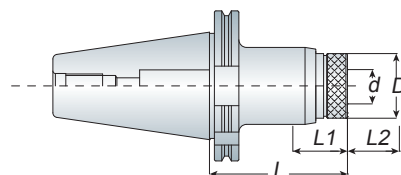


Model No.	d	D	L	Tapping Range	Collet Type	Weight (kg)
SK30 ART312	19	36	60	M3~12	ATC312	0.60
SK40 ART312	19	36	65	M3~12	ATC312	1.10
SK50 ART312	19	36	80	M3~12	ATC312	3.00
SK40 ART822	31	53	85	M8~22	ATC822	1.30
SK50 ART822	31	53	95	M8~22	ATC822	3.40

Unit: mm

Tension & Compression Tap Holder

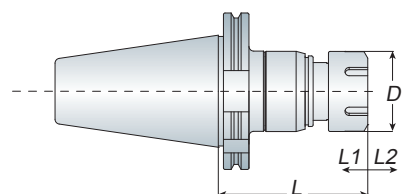
伸縮攻牙本體



Model No.	d	D	L	L1	L2	Tapping Range	Collet Type	Weight (kg)
SK30 ATP312	19	36	70	6~10	6~10	M3~12	ATC312	0.80
SK40 ATP312	19	36	75	6~10	6~10	M3~12	ATC312	1.10
SK50 ATP312	19	36	85	6~10	6~10	M3~12	ATC312	3.20
SK40 ATP822	31	53	110	6~10	6~10	M8~22	ATC822	2.00
SK50 ATP822	31	53	105	6~10	6~10	M8~22	ATC822	4.00

Unit: mm

Tension & Compression Tap Holder



剛性伸縮攻牙本體

Model No.	D	L	L1	L2	Tapping Range	Collet Type	Weight (kg)
SK40 TER16	28	77	5	8	M3~M10	ER16	1.10
TER20	34	86	5	8	M3~M12	ER20	1.20
TER25	42	90	5	8	M4~M16	ER25	1.50
TER32	50	94	5	8	M4~M22	ER32	1.70
TER40	63	98	5	8	M6~M30	ER40	2.90
SK50 TER16	28	80	5	8	M3~M10	ER16	2.80
TER20	34	99	5	8	M3~M12	ER20	2.90
TER25	42	97	5	8	M4~M16	ER25	3.20
TER32	50	95	5	8	M4~M22	ER32	3.40
TER40	63	117	5	8	M6~M30	ER40	4.40

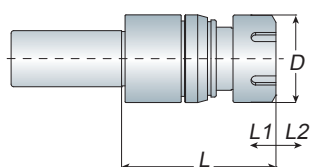
Unit: mm

TER

SK
series
DIN 69871A



- TER tap holder uses the ER spring collet and easy to get.
- The nut could not be over tightening to avoid damaging the body and nut.
- Wrench must be ordered separately.
- TER 伸縮攻牙本體須搭配 ER 筒夾做使用
- 使用時，螺帽請勿過度鎖緊以免造成本體及螺帽損壞
- ER 扳手為另購品



Straight Shank

直柄剛性伸縮攻牙本體

Model No.	D	L	L1	L2	Tapping Range	Collet Type	Weight (kg)
C20 TER16	28	75	5	12	M3~M10	ER16	0.40
TER20	34	80	5	12	M3~M12	ER20	0.50
TER25	42	80	5	12	M4~M16	ER25	0.80
C25 TER16	28	75	5	12	M3~M10	ER16	0.50
TER20	34	80	5	12	M3~M12	ER20	0.60
TER25	42	80	5	12	M4~M16	ER25	0.90
TER32	50	80	5	8	M4~M22	ER32	1.10
C32 TER16	28	75	5	12	M3~M10	ER16	0.70
TER20	34	80	5	12	M3~M12	ER20	0.80
TER25	42	80	5	12	M4~M16	ER25	1.00
TER32	50	80	5	8	M4~M22	ER32	1.30
C40 TER16	28	75	5	12	M3~M10	ER16	1.00
TER20	34	80	5	12	M3~M12	ER20	1.10
TER25	42	80	5	12	M4~M16	ER25	1.30
TER32	50	80	5	8	M4~M22	ER32	1.50

Unit: mm



- TER tap holder uses the ER spring collet and easy to get.
- The nut could not be over tightening to avoid damaging the body and nut.
- Straight shank tap holder also has flat shank type to choice. When ordering, please specify "FLAT".
- Wrench must be ordered separately.
- TER 伸縮攻牙本體須搭配 ER 筒夾做使用
- 使用時，螺帽請勿過度鎖緊以免造成本體及螺帽損壞
- 另有直柄削平面可供選購，請於訂購時註明 " 削平面 "
- ER 扳手為另購品



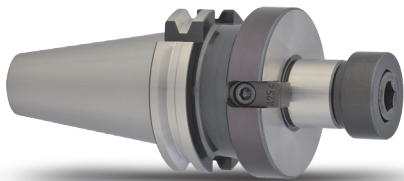
P14- ER Nut

P11/12- ER Collet

P14- Wrench

SK
series
DIN 69871A

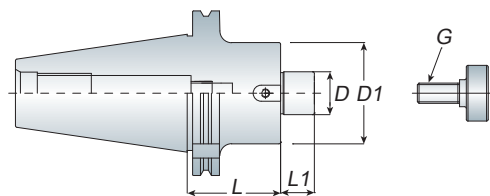
FMB



- Face mill holder equips with screw and drive keys to assemble the face mill cutter to the holder.
- FMB face mill holder - long type upon your request.
- Face mill cutter must be ordered separately.
- 每支 FMB 面銑刀桿均附有螺絲及擋耳以裝配面銑刀盤使用
- 亦有生產 FMB 加長型刀桿，可另詢問
- 面銑刀盤為另購品

Face Mill Holder - Metric

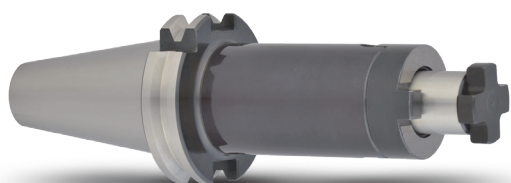
平面銑刀桿



Model No.	D	D1	L	L1	G	Weight (kg)
SK40 FMB16-040	16	38	40	17	M08	1.10
FMB22-040	22	48	40	19	M10	1.30
FMB27-040	27	58	40	21	M12	1.50
FMB32-050	32	78	50	24	M16	2.00
FMB40-050	40	88	50	27	M20	2.30
SK50 FMB16-040	16	38	40	17	M08	3.10
FMB22-040	22	48	40	19	M10	3.30
FMB27-040	27	58	40	21	M12	3.60
FMB32-040	32	78	40	24	M16	3.70
FMB40-050	40	88	50	27	M20	4.10

Unit: mm

CS

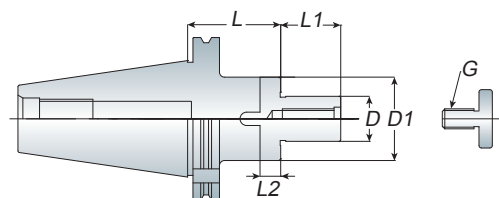


- Face mill cutter must be ordered separately.
- 面銑刀盤為另購品



Combined Face Mill Holder

殼型平面銑刀桿



Model No.	D	D1	L	L1	L2	G	Weight (kg)
SK40 CS16-055	16	32	55	17	10	M08	1.20
CS22-055	22	40	55	19	12	M10	1.30
CS27-055	27	48	55	21	12	M12	1.60
CS32-060	32	58	60	24	14	M16	2.20
CS40-060	40	70	60	27	14	M20	2.60
SK50 CS16-055	16	32	55	17	10	M08	3.10
CS22-055	22	40	55	19	12	M10	3.20
CS27-055	27	48	55	21	12	M12	3.50
CS32-055	32	58	55	24	14	M16	4.00
CS40-055	40	70	55	27	14	M20	4.40

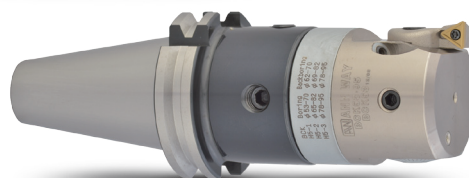
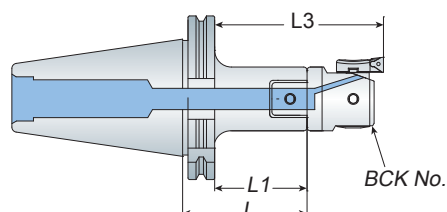
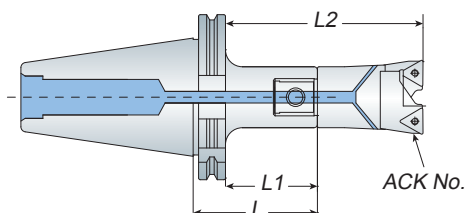
Unit: mm

Adjustable Balance Cutter Tool Holder

搪孔刀桿

ACK BCK

SK
series
DIN 69871A



Features

- ACK19 ~ ACK90 boring range is from 19mm ~ 122mm.
- BCK20 ~ BCK100 boring range is from 20mm ~ 203mm.
- The ACK holder is coolant type and both for rough and fine boring system.
- Rough boring uses the ACK cutter no. ; Fine boring uses the BCK cutter no.
- The cutter and insert must be ordered separately.
- ACK19 ~ ACK90 其搪孔範圍為：19mm ~ 122mm
- BCK20 ~ BCK100 其搪孔範圍為：20mm ~ 203mm
- 標準刀桿皆有中心出水功能，且為粗搪、精搪共通刀桿
- 粗搪加工配合 ACK 粗搪頭；精搪加工配合 BCK 精搪頭
- 搪頭和刀片為另購品

Model No.	L	L1	Adapter	ACK Cutter No.	L2	BCK Cutter No.	L3	Weight (kg)
SK40 ACK1-060	60	40.90	ACK1	ACK19	78.90	BCK20	73.40	1.00
-080	80	60.90	ACK1	ACK19	98.90	BCK20	93.40	1.10
ACK2-060	60	40.90	ACK2	ACK25	85.90	BCK25	76.40	1.10
-080	80	60.90	ACK2	ACK25	105.90	BCK25	96.40	1.10
-100	100	80.90	ACK2	ACK25	125.90	BCK25	116.40	1.20
-120	120	100.90	ACK2	ACK25	145.90	BCK25	136.40	1.30
ACK3-060	60	40.90	ACK3	ACK32	90.90	BCK32	80.90	1.10
-080	80	60.90	ACK3	ACK32	110.90	BCK32	100.90	1.10
-100	100	80.90	ACK3	ACK32	130.90	BCK32	120.90	1.20
-120	120	100.90	ACK3	ACK32	150.90	BCK32	140.90	1.40
ACK4-080	80	60.90	ACK4	ACK40	125.90	BCK41	107.90	1.30
-100	100	80.90	ACK4	ACK40	145.90	BCK41	127.90	1.50
-125	125	105.90	ACK4	ACK40	170.90	BCK41	152.90	1.70
ACK5-080	80	60.90	ACK5	ACK52	130.90	BCK53	117.90	1.50
-100	100	80.90	ACK5	ACK52	150.90	BCK53	137.90	1.90
-135	135	115.90	ACK5	ACK52	185.90	BCK53	172.90	2.40
ACK6-055	55	35.90	ACK6	ACK68/ACK90	115.90/125.90	BCK68/BCK100	106.90/106.90	1.30
SK50 ACK2-090	90	70.90	ACK2	ACK25	115.90	BCK25	106.40	3.10
-125	125	105.90	ACK2	ACK25	150.90	BCK25	141.40	3.20
ACK3-090	90	70.90	ACK3	ACK32	120.90	BCK32	110.90	3.10
-125	125	105.90	ACK3	ACK32	155.90	BCK32	145.90	3.40
ACK4-115	115	95.90	ACK4	ACK40	160.90	BCK41	142.90	3.60
-175	175	155.90	ACK4	ACK40	220.90	BCK41	202.90	3.80
ACK5-090	90	70.90	ACK5	ACK52	140.90	BCK53	127.90	3.70
-135	135	115.90	ACK5	ACK52	185.90	BCK53	172.90	4.30
-195	195	175.90	ACK5	ACK52	245.90	BCK53	232.90	5.40
ACK6-110	110	90.90	ACK6	ACK68/ACK90	170.90/180.90	BCK68/BCK100	161.90/161.90	4.20
-170	170	150.90	ACK6	ACK68/ACK90	230.90/240.90	BCK68/BCK100	221.90/221.90	5.40
-215	215	195.90	ACK6	ACK68/ACK90	275.90/285.90	BCK68/BCK100	266.90/226.90	7.10
-255	255	235.90	ACK6	ACK68/ACK90	315.90/325.90	BCK68/BCK100	306.90/306.90	8.30
-300	300	280.90	ACK6	ACK68/ACK90	360.90/370.90	BCK68/BCK100	351.90/351.90	8.90
-350	350	330.90	ACK6	ACK68/ACK90	410.90/420.90	BCK68/BCK100	401.90/401.90	10.80

Unit: mm



P59- BCK Cutter

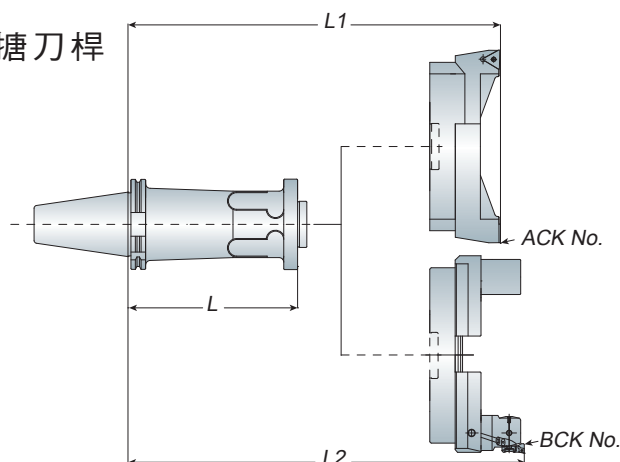
P62- ACK Cutter

SK
series
DIN 69871A

BST

Adjustable Balance Cutter Tool Holder

大口徑雙刃粗搪刀桿



Model No.	D	L	ACK Cutter No.	L1		BCK Cutter No.	L2	Weight (kg)
				ACK120 ACK160	ACK200 ACK300 ACK400			
SK50 BST100	50	100	ACK120 ACK160 ACK200 ACK300 ACK400	195	175	BCK200 BCK300 BCK400 BCK500	200	4.60
BST125	50	125		220	200		225	4.70
BST150	50	150		245	225		250	6.10
BST175	50	175		270	250		275	6.70
BST200	50	200		295	275		300	7.00
BST225	50	225		320	300		325	7.70
BST250	50	250		345	325		350	8.90
BST275	50	275		370	350		375	9.30
BST300	50	300		395	375		400	10.20
BST350	50	350		445	425		450	12.90
BST400	50	400		495	475		500	13.80

Unit: mm



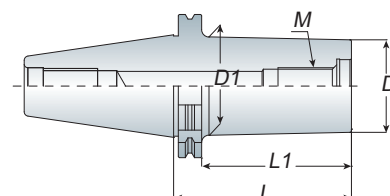
P61-BCK Cutter

P63- ACK Cutter

AMD

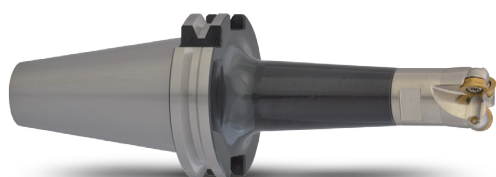
Screw-in End Mill Holder

圓刀銑刀桿



Model No.	M	D	D1	L	L1	Weight (kg)
SK40 AMD122-080	6	11	12	80	53	1.00
-100	6	11	12	100	73	1.10
AMD123-080	6	11	12	80	53	1.10
AMD162-080	8	13	16	80	53	1.10
-100	8	13	16	100	73	1.20
AMD202-080	10	18	20	80	53	1.10
-100	10	18	20	100	73	1.20
AMD253-080	12	21	25	80	53	1.20
-100	12	21	25	100	73	1.30
AMD354-080	16	29	35	80	53	1.30
-100	16	29	35	100	73	1.50
SK50 AMD122-100	6	11	12	100	62	3.20
-120	6	11	12	120	82	3.30
AMD162-100	8	13	16	100	62	3.20
-120	8	13	16	120	82	3.30
AMD202-100	10	18	20	100	62	3.30
-120	10	18	20	120	82	3.40
AMD253-100	12	21	25	100	62	3.30
-120	12	21	25	120	82	3.40
AMD354-100	16	29	35	100	62	3.40
-120	16	29	35	120	82	3.50

Unit: mm



P81-End Mills

Boring Holder

粗搪刀桿

BSA

SK
series
DIN 69871A

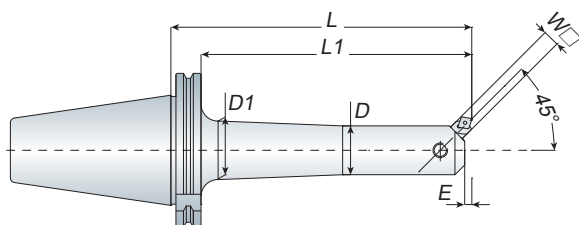


FIG.1

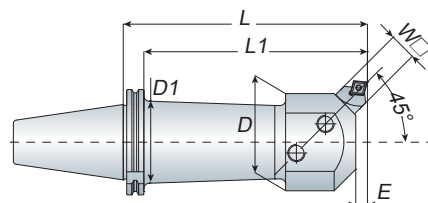


FIG.2



Features

- Throw away boring cutter must be ordered separately and the degree must be 45° .
- When ordering the throw away boring cutter, please check the W □ .
- 捨棄式搪刀架為另購品，內徑搪孔角度需為 45°
- 請於訂購捨棄式搪刀架時，確認 W □ 尺寸



P76- Boring Cutter

Model No.	FIG.	Boring Range		D	D1	L	L1	E	W □	Weight (kg)
		Min.	Max.							
SK40 BSA025-135	1	25	38	20	22	135	111	1	8	1.30
BSA030-150	1	30	42	24	26	150	126	1.6	8	1.40
BSA038-165	1	38	52	30	33	165	141	2.6	10	1.80
BSA050-165	1	50	65	40	44	165	141	3	13	2.30
-210	1	50	65	40	44	210	186	3	13	2.70
BSA062-165	1	62	90	50	44	165	141	2	16	3.00
-225	1	62	90	50	50	225	201	2	16	4.00
BSA072-165	2	72	110	60	50	165	141	2.4	19	3.70
-225	2	72	110	60	50	225	201	2.4	19	5.10
BSA090-165	2	90	125	75	50	165	141	4	19	4.40
-210	2	90	125	75	50	210	186	4	19	5.30
SK50 BSA025-135	1	25	38	20	22	135	98	1	8	3.30
BSA030-165	1	30	42	24	26	165	128	1.6	8	3.50
BSA038-180	1	33	52	30	33	180	143	2.6	10	3.90
BSA042-210	1	42	56	34	37	210	173	2	10	4.30
BSA050-180	1	50	65	40	44	180	143	3	13	4.50
-240	1	50	65	40	44	240	203	3	13	5.30
BSA062-195	1	62	90	50	56	195	158	2	16	5.50
-270	1	62	90	50	56	270	233	2	16	6.90
BSA072-195	1	72	110	60	66	195	158	2.4	19	6.40
-285	1	72	110	60	66	285	248	2.4	19	8.70
BSA090-210	1	90	125	75	80	210	173	4	19	7.70
-300	1	90	125	75	80	300	263	4	19	10.20
BSA105-195	2	105	160	90	80	195	158	3	25	7.90
-285	2	105	160	90	80	285	248	3	25	10.70

Unit: mm

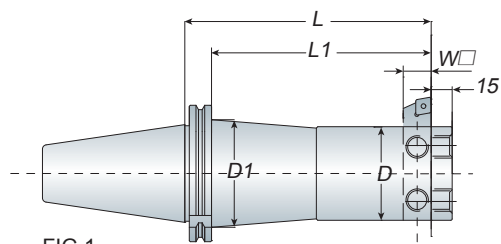


FIG.1

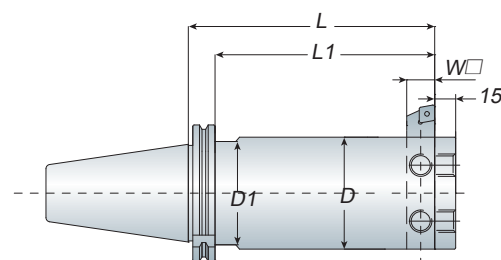
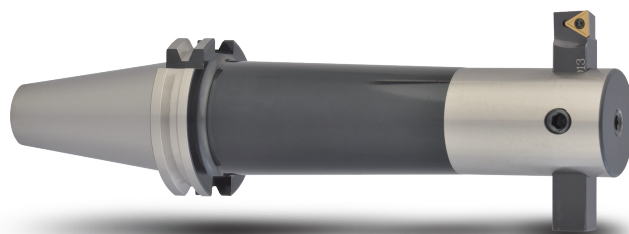


FIG.2



Features

- Throw away boring cutter must be ordered separately and the degree must be 90°.
- When ordering the throw away boring cutter, please check the W □.
- 捨棄式搪刀架為另購品，內徑搪孔角度需為 90°
- 請於訂購捨棄式搪刀架時，確認 W □ 尺寸



P76- Boring Cutter

Model No.	FIG.	Boring Range		D	D1	L	L1	W □	Weight (kg)
		Min.	Max.						
SK40 BSB025-135	1	25	52	20	22	135	111	8	1.30
BSB038-165	1	38	70	30	33	165	141	10	1.90
BSB050-165	1	50	90	40	44	165	141	13	2.60
-210	1	50	90	40	44	210	186	13	3.20
BSB062-165	1	62	115	50	44	165	141	16	3.00
-225	1	62	115	50	50	225	201	16	4.30
BSB072-165	2	72	135	60	50	165	141	19	4.20
-225	2	72	135	60	50	225	201	19	5.10
BSB090-165	2	90	150	75	50	165	141	19	5.00
-210	2	90	150	75	50	210	186	19	6.20
SK50 BSB025-135	1	25	52	20	22	135	98	8	3.40
BSB038-180	1	38	70	30	32	180	143	10	4.10
BSB050-180	1	50	90	40	44	180	143	13	4.80
-240	1	50	90	40	44	240	203	13	5.30
BSB062-195	1	62	115	50	56	195	158	16	5.60
-270	1	62	115	50	56	270	233	16	6.90
BSB072-195	1	72	135	60	66	195	158	19	6.80
-285	1	72	135	60	66	285	248	19	8.40
BSB090-210	1	90	150	75	80	210	173	19	7.70
-300	1	90	150	75	80	300	263	19	11.20
BSB105-195	2	105	190	90	80	195	158	25	8.30
-285	2	105	190	90	80	285	248	25	12.00

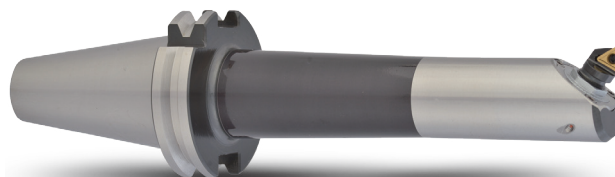
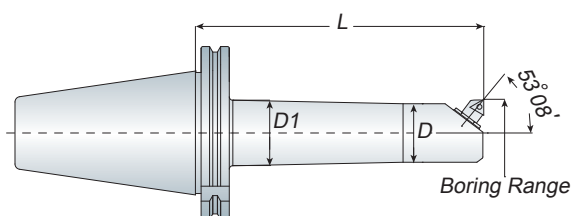
Unit: mm

Micro Boring Holder

微調精搪刀桿

BCA

SK
series
DIN 69871A



Features

- Boring head must be ordered separately.
- 精搪頭為另購品



Model No.	Boring Range		D	D1	L	Boring Head	Weight (kg)
	Min.	Max.					
SK40 BCA026-150	26	30	23	26	150	L148C-31	1.30
-180	26	30	23	26	180	L148C-31	1.50
BCA030-160	30	34	26	30	160	L148C-31	1.60
-210	30	34	26	30	210	L148C-31	1.80
BCA033-165	33	38	29	33	165	L148C-32	1.70
-210	33	38	29	33	210	L148C-32	2.00
BCA038-165	38	43	33	38	165	L148C-32	2.10
-210	38	43	33	38	210	L148C-32	2.50
BCA043-165	43	52	38	43	165	L148C-33	2.20
-210	43	52	38	43	210	L148C-33	2.80
BCA052-180	52	61	47	52	180	L148C-33	3.20
-240	52	61	47	52	240	L148C-33	4.30
BCA061-180	61	70	56	61	180	L148C-33	4.00
-240	61	70	56	61	240	L148C-33	5.20
-330	61	70	56	61	330	L148C-33	7.00
BCA070-180	70	85	65	70	180	L148C-34	4.20
-240	70	85	65	70	240	L148C-34	5.80
BCA085-180	85	100	80	85	180	L148C-34	5.10
-240	85	100	80	85	240	L148C-34	6.90
BCA100-165	100	115	95	100	165	L148C-34	6.00
-240	100	115	95	100	240	L148C-34	7.50

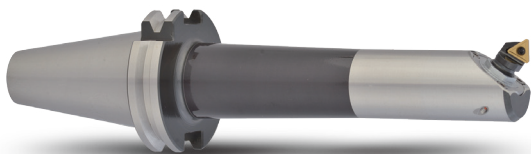
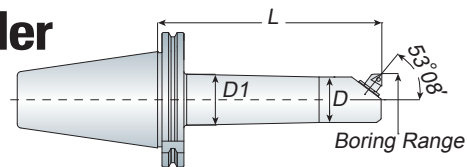
Unit: mm

SK
series
DIN 69871A

BCA

Micro Boring Holder

微調精搪刀桿



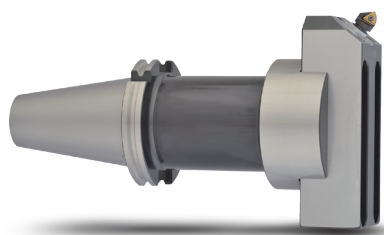
- Boring head must be ordered separately.
- 精搪頭為另購品



Model No.	Boring Range		D	D1	L	Boring Head	Weight (kg)
	Min.	Max.					
SK50 BCA026-150	26	30	23	26	150	L148C-31	3.50
-180	26	30	23	26	180	L148C-31	3.50
BCA030-160	30	34	26	30	160	L148C-31	3.60
-210	30	34	26	30	210	L148C-31	3.80
BCA033-165	33	38	29	33	165	L148C-32	3.70
-210	33	38	29	33	210	L148C-32	3.90
BCA038-165	38	43	33	38	165	L148C-32	4.00
-210	38	43	33	38	210	L148C-32	4.30
BCA043-165	43	52	38	43	165	L148C-33	4.20
-210	43	52	38	43	210	L148C-33	4.50
BCA052-180	52	61	47	52	180	L148C-33	4.80
-240	52	61	47	52	240	L148C-33	5.90
BCA061-180	61	70	56	61	180	L148C-33	5.80
-240	61	70	56	61	240	L148C-33	6.60
-330	61	70	56	61	330	L148C-33	8.60
BCA070-180	70	85	65	70	180	L148C-34	6.50
-240	70	85	65	70	240	L148C-34	8.10
-330	70	85	65	70	330	L148C-34	10.00
BCA085-180	85	100	80	85	180	L148C-34	7.50
-240	85	100	80	85	240	L148C-34	9.30
-330	85	100	80	85	330	L148C-34	11.20
BCA100-165	100	115	95	100	165	L148C-34	7.60
-240	100	115	95	100	240	L148C-34	9.80
-315	100	115	95	100	315	L148C-34	11.50
BCA115-165	115	130	110	115	165	L148C-34	7.80
-240	115	130	110	115	240	L148C-34	10.00
-315	115	130	110	115	315	L148C-34	11.90
BCA130-165	130	145	125	130	165	L148C-34	8.20
-240	130	145	125	130	240	L148C-34	9.70
BCA145-165	145	160	140	145	165	L148C-34	8.70
-240	145	160	140	145	240	L148C-34	10.20

Unit: mm

BCT

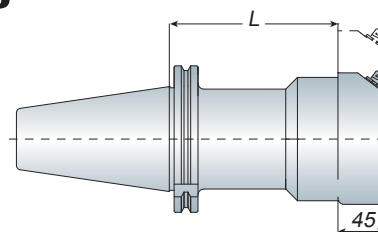


- BCT boring block and boring head must be ordered separately.
- BCT 刀盤和精搪頭為另購品



Large Micro Boring Holder with Slide Block

大孔徑滑板式精搪刀桿



Model No.	L	Weight (kg)
SK50 BCT100	100	5.60
BCT150	150	5.70
BCT200	200	6.80
BCT250	250	7.10
BCT300	300	9.30

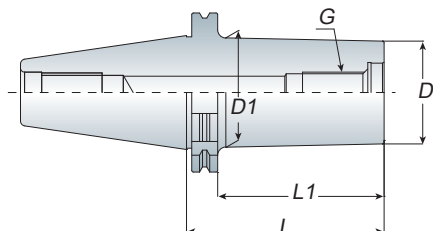
Unit: mm

Micro Boring Holder

微調精搪刀桿

ABH

SK
series
DIN 69871A



Features

- ABH (Rough or Fine) / ABH-SB (Fine) boring head must be ordered separately.
- ABH (粗 / 精搪頭) / ABH-SB 精搪頭為另購品



Model No.	Boring Range		D	D1	L	L1	G	Weight (kg)
	Min.	Max.						
SK40 ABH18-060	22	32	18	24	60	39	M10xP1.5	1.10
-100	22	32	18	24	100	79	M10xP1.5	1.20
ABH23-080	28	46	23	29	80	59	M12xP1.75	1.20
-120	28	46	23	29	120	99	M12xP1.75	1.40
ABH30-080	36	60	30	36	80	59	M16xP2.0	1.30
-130	36	60	30	36	130	109	M16xP2.0	1.50
ABH40-080	46	80	40	48	80	59	M18xP2.5	1.40
-150	46	80	40	48	150	129	M18xP2.5	1.80
ABH63-080	70	130	63	-	80	59	M25xP2.0	2.10
-150	70	130	63	-	150	129	M25xP2.0	2.80
SK50 ABH18-080	22	32	18	24	80	48	M10xP1.5	3.00
-120	22	32	18	24	120	88	M10xP1.5	3.20
ABH23-080	28	46	23	29	80	48	M12xP1.75	3.10
-120	28	46	23	29	120	88	M12xP1.75	3.40
ABH30-080	36	60	30	36	80	48	M16xP2.0	3.30
-130	36	60	30	36	130	98	M16xP2.0	3.60
ABH40-080	46	80	40	48	80	48	M18xP2.5	3.40
-150	46	80	40	48	150	118	M18xP2.5	4.40
-220	46	80	40	48	220	188	M18xP2.5	5.30
ABH63-080	70	130	63	-	80	48	M25xP2.0	4.00
-150	70	130	63	-	150	118	M25xP2.0	6.20
-230	70	130	63	-	230	198	M25xP2.0	7.90
ABH83-050	90	160	83	-	50	48	-	5.00
-130	90	160	83	-	130	98	-	5.80
-200	90	160	83	-	200	168	-	6.70

Unit: mm

SK
series
DIN 69871A

ABJ
NBJ



- ABJ / NBJ modular micro boring system includes 3 types boring range: 1. ABJ10: 6 ~ 25mm 2. ABJ12: 6 ~ 32mm 3. ABJ16 / NBJ16: 6 ~ 50mm
- ABJ / NBJ could use 3 types boring bar: BJ10B, BJ12B and BJ16.
- NBJ16 boring head can match BM1625 series which can extend boring range to 68mm (6 ~ 68mm) for optional. => refer to P.93
- ABJ / NBJ boring head and boring bar must be ordered separately.
- ABJ / NBJ 微調搪孔範圍可分為三種
1. ABJ10: 6 ~ 25mm 2. ABJ12: 6 ~ 32mm
3. ABJ16 / NBJ16: 6 ~ 50mm
- ABJ / NBJ 搪刀分為三種規格：BJ10B，BJ12B 以及 BJ16.
- NBJ16 搪孔刀頭可另選配 BM1625 系列，使其搪孔範圍延展至 68mm (6 ~ 68mm) => 請參考 P.93
- ABJ / NBJ 搪孔刀頭及搪刀為另購品



P89-Boring Head **P90-BJ Boring bar**

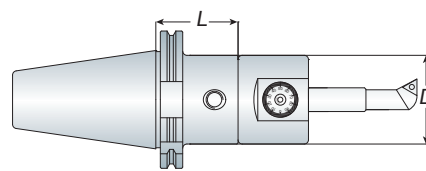
NBH



- NBH2084 micro boring system which boring range is from 8 ~ 280mm.
- NBH2084 tool holder set is attached 3pcs of BJ20 boring bars which are according to your request to choice. => refer to P.94
- NBH2084 微調搪孔系統：搪孔範圍 8 ~ 280mm
- NBH2084 搪孔組均附 3 支搪孔刀桿，其尺寸可依需求選擇 => 請參考 P.94

Modular Micro Boring Holder

小徑微調搪孔刀桿

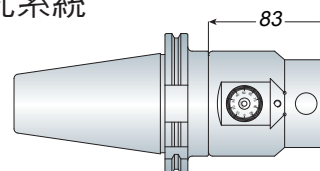


Model No.	Micro Boring Head Type	Boring Range	D	L	Weight (kg)
SK40 ACK4-080	ABJ10	6~25	39	80	1.30
SK50 ACK4-115				115	3.60
SK40 ACK5-080	ABJ12	6~32	50	80	1.50
SK50 ACK5-090				90	3.70
SK40 NBJ16-055	ABJ16	6~50	64	55	1.40
SK50 NBJ16-065				65	3.70
SK40 NBJ16-055	NBJ16	6~50	63	55	1.40
SK50 NBJ16-065				65	3.70

Unit: mm

NBH2084 Micro Boring System

NBH2084 微調搪孔系統



Model No.	Boring Range	Holder	Weight (kg)
SK40 NBH2084/SET	8~280	SK40 NBH2084	7.00
SK50 NBH2084/SET	8~280	SK50 NBH2084	9.50

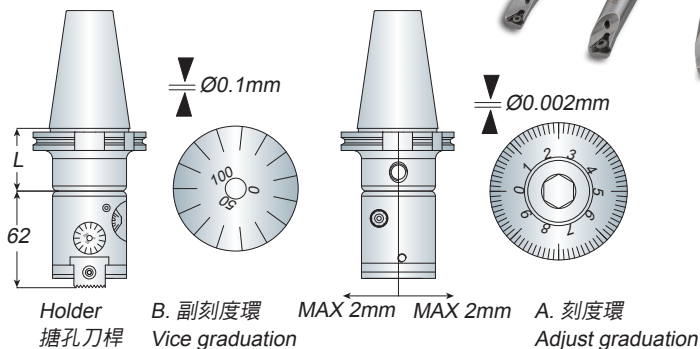
Unit: mm

HBOR50 Micro Boring System

HBOR50 微調搪孔系統組

HBOR

SK
series
DIN 69871A



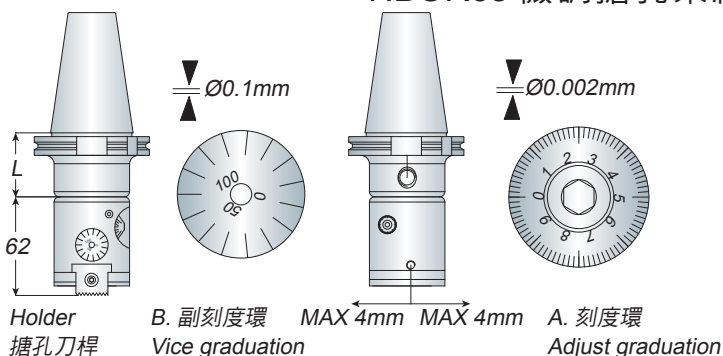
Model No.	Boring Range	Holder	L	Weight (kg)
SK40 HBOR50/SET	6~90	SK40 ACK5-050	50	8.60
SK50 HBOR50/SET	6~90	SK50 ACK5-065	65	10.50

Unit: mm

- HBOR50 micro boring system which boring range is from 6 ~ 90mm.
- The inside diameter of HBOR50 micro finish boring system is 16mm.
- HBOR50 boring set => refer to P.95
- Insert must be ordered separately.
- HBOR50 微調搪孔系統組：搪孔範圍 6 ~ 90mm
- HBOR50 微調搪孔本體中的內孔為 16mm
- HBOR50 整組規格 => 請參考 P.95
- 刀片為另購品

HBOR63 Micro Boring System

HBOR63 微調搪孔系統組



Model No.	Boring Range	Holder	L	Weight (kg)
SK40 HBOR63/SET	6~150	SK40 ACK6-060	60	9.60
SK50 HBOR63/SET	6~150	SK50 ACK6-065	65	11.30

Unit: mm

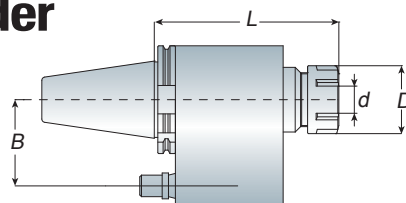
- HBOR63 micro boring system which boring range is from 6 ~ 150mm.
- The inside diameter of HBOR63 micro finish boring system is 16mm.
- HBOR63 boring set => refer to P.96
- HBOR63 boring head can match BM140 series for optional. It can extend boring range to 280mm (6 ~ 280mm). => refer to P.97
- Insert must be ordered separately.
- HBOR63 微調搪孔系統組：搪孔範圍 6 ~ 150mm
- HBOR63 微調搪孔本體中的內孔為 16mm
- HBOR63 整組規格 => 請參考 P.96
- HBOR63 微調搪孔系統組可另選配 BM 系列，使其搪孔範圍延展至 280mm (6 ~ 280mm) => 請參考 P.97
- 刀片為另購品

SK
series
DIN 69871A

ERO

Oil-Feed Holder

油路刀桿



- ERO oil-feed holder must be used with ER coolant nut and ER coolant collet (refer to P.12).
- When ordering, please specify the B size of oil-feed holder according to your machine.
- Positioning block is necessary and must be ordered separately. => refer to P.100
- ERO 油路刀桿需與止水螺帽與止水筒夾 (可參考 P.12) 一起使用
- 請於訂購時，依據機台規格確認中心距離 (B 的尺寸)
- ERO 刀桿需配合止動塊使用。止動塊為另購品 => 請參考 P.100

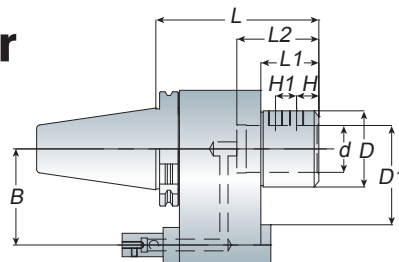
Model No.	Clamping Range (d)	D	L	B (中心距)	Collet Type	Weight (kg)
SK40 ERO32-155	4~20	50	155	60/65	ER32-CL	4.60
ERO40-160	4~26	63	160	60/65	ER40-CL	4.80
SK50 ERO32-160	4~20	50	160	80/82	ER32-CL	7.10
ERO40-170	4~26	63	170	80/82	ER40-CL	7.50

Unit: mm

SLO

Oil-Feed Holder

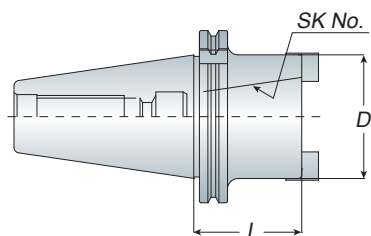
油路刀桿



- When ordering, please specify the B size of oil-feed holder according to your machine.
- Positioning block is necessary and must be ordered separately. => refer to P.100
- 請於訂購時，依據機台規格確認中心距離 (B 的尺寸)
- SLO 刀桿需配合止動塊使用。止動塊為另購品 => 請參考 P.100

Model No.	d	D	D1	L	L1	L2	H	H1	B (中心距)	Weight (kg)
SK40 SLO32-150	32	53	90	150	50	60	15	15	60/65	4.80
SLO40-155	40	70	90	155	50	70	19	18	60/65	4.90
SK50 SLO32-160	32	54	100	160	50	60	15	15	80/82	7.20
SLO40-160	40	64	100	160	50	70	19	18	80/82	7.60

Unit: mm



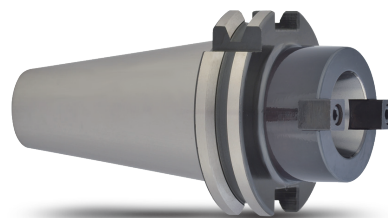
Adapter 轉接器

TSA

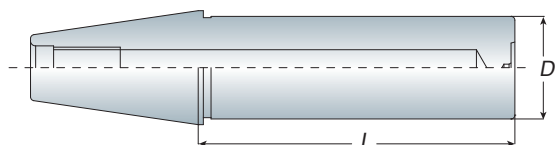
SK
series
DIN 69871A

Model No.	D	L
SK40 TSA30-050	50	50
SK50 TSA30-050	50	50
TSA40-070	70	70
-120	97	120

Unit: mm



- Use the adapter to switch the taper shank.
- 使用轉接器作錐度轉換



Test Bar 測試棒

TA

Model No.	D	L	Roundness 真圓度	Concentricity 同心度	Weight (kg)
SK40 TA40-160	40	160	< 0.003	< 0.005	3.30
-250	40	250			3.70
SK50 TA40-250	40	250			4.20
-315	40	315			4.50
-350	40	350			4.90
TA63-315	63	315	< 0.003	< 0.005	10.20
-350	63	350			10.90

Unit: mm



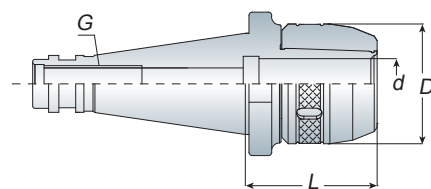
- Test arbor is used to measure the runout of machine spindle.
- Taper Contant > 85%
- 測試棒為測量機台主軸精準度用
- 錐度密合度 > 85%

SK
series
DIN 2080

ASC

Milling Chuck

強力銑刀夾頭刀桿



- C-type wrench is attached for each ASC milling chuck.
- 每支 ASC 刀桿均附 1 支 C 型扳手



P6- Wrench

P6- SC Collet

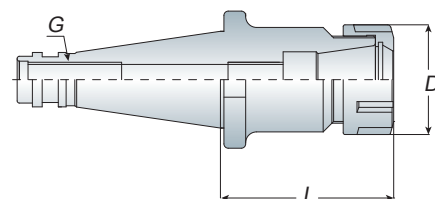
Model No.	Clamping Range	d	D	L	Collet Type	G	Weight (kg)
SK40 ASC25-080	6~25	25	58	80	SC25	M16	1.70
-130	6~25	25	58	130	SC25	M16	2.60
ASC32-085	6~32	32	68	85	SC32	M16	2.20
-130	6~32	32	68	130	SC32	M16	3.00
SK50 ASC25-085	6~25	25	58	85	SC25	M24	3.90
-150	6~25	25	58	150	SC25	M24	5.30
ASC32-090	6~32	32	68	90	SC32	M24	4.60
-150	6~32	32	68	150	SC32	M24	5.60
ASC42-095	6~42	42	84	95	SC42	M24	4.70
-150	6~42	42	84	150	SC42	M24	6.80

Unit: mm

ER

Spring Collet Chuck

彈性筒夾本體



- ER collet chuck with the flexibility that can clamp drill, reamers, end mills and taps.
- ER16 / ER20 holder can make M type as your choice.
- ER collet chuck is also suitable for ER bearing nut and wrench.
- Wrench must be ordered separately.
- ER 筒夾具有彈性，適合夾持鑽頭、鉸刀、銑刀及絲攻刀具
- ER16 / ER20 刀桿另有 M 型可供選擇
- ER 刀桿可另外選配 ER 鋼珠螺帽及扳手
- ER 扳手為另購品

Model No.	Clamping Range	D	L	Collet Type	Wrench	G	Weight (kg)
SK40 ER16-076	1~10	28	76	ER16	WER16	M16	1.10
-100	1~10	28	100	ER16	WER16	M16	1.20
ER20-076	1~13	34	76	ER20	WER20	M16	1.30
-100	1~13	34	100	ER20	WER20	M16	1.40
ER25-050	2~16	42	50	ER25	WER25	M16	1.10
ER32-050	2~20	50	50	ER32	WER32	M16	1.20
ER40-055	3~26	63	55	ER40	WER40	M16	1.40
SK50 ER16-100	1~10	28	100	ER16	WER16	M24	3.30
ER20-100	1~13	34	100	ER20	WER20	M24	3.30
ER25-100	2~16	42	100	ER25	WER25	M24	3.50
ER32-058	2~20	50	58	ER32	WER32	M24	3.20
ER40-058	3~26	63	58	ER40	WER40	M24	3.40

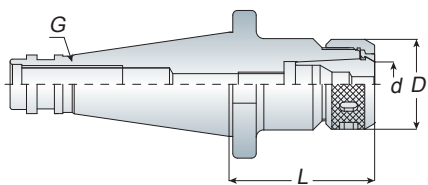
Unit: mm



P14- ER Nut

P11- ER Collet

P14- Wrench



Collet Chuck

重切削筒夾本體

Model No.	d	D	L	Collet Type	G	Weight (kg)
SK40 OZ25-063	3~25	60	63	OZ25	M16	1.40
-100	3~25	60	100	OZ25	M16	1.80
OZ32-090	6~32	72	90	OZ32	M16	2.40
SK50 OZ25-063	3~25	60	63	OZ25	M24	3.60
-100	3~25	60	100	OZ25	M24	4.00
OZ32-070	6~32	72	70	OZ32	M24	4.20

Unit: mm

OZ

SK
series
DIN 2080



- OZ collet chuck can clamp drill, end mills and taps.
- Wrench must be ordered separately.
- OZ 重切削刀桿可用於夾持鑽頭、銑刀及絲攻刀具
- OZ 扳手為另購品



P26- Wrench

P26- OZ Collet

P26- OZ Nut

End Mill Holder - Weldon

側固端銑刀桿 (歐規)

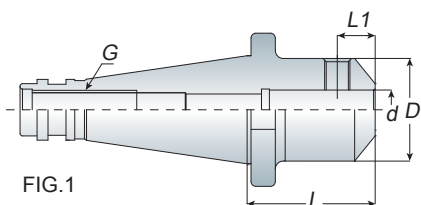


FIG.1

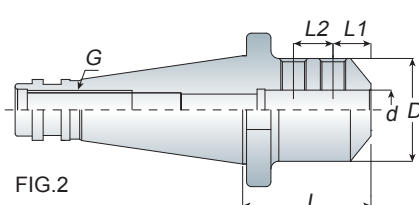


FIG.2

Model No.	FIG.	d	D	L	L1	L2	G	Weight (kg)
SK40 EM06-050	1	6	25	50	18	-	M16	1.00
EM08-050	1	8	28	50	18	-	M16	1.00
EM10-050	1	10	35	50	20	-	M16	1.10
EM12-050	1	12	42	50	22.5	-	M16	1.20
EM16-063	1	16	48	63	24	-	M16	1.40
EM20-063	1	20	52	63	25	-	M16	1.50
EM25-080	2	25	65	80	24	25	M16	2.20
EM32-080	2	32	72	80	24	28	M16	2.50
EM40-080	2	40	80	80	30	32	M16	3.00
SK50 EM06-063	1	6	25	63	18	-	M24	3.00
EM08-063	1	8	28	63	18	-	M24	3.00
EM10-063	1	10	35	63	20	-	M24	3.10
EM12-063	1	12	42	63	22.5	-	M24	3.10
EM16-063	1	16	48	63	24	-	M24	3.20
EM20-063	1	20	52	63	25	-	M24	3.40
EM25-080	2	25	65	80	24	25	M24	3.90
EM32-080	2	32	72	80	24	28	M24	4.30
EM40-090	2	40	90	90	30	32	M24	4.70

Unit: mm

EM



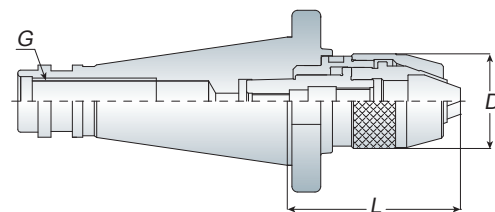
- For straight shank end mill.
- End mill is held by one (FIG.1) or two (FIG.2) set screws.
- End mill holder comes equipped with set screws.
- 適用於夾持直柄銑刀，可用在一般銑削加工
- 夾持銑刀之固定螺絲分為一個 (FIG.1) 或兩個 (FIG.2)
- 刀桿本身已裝配固定螺絲

SK
series
DIN 2080

APU

Drill Chuck Holder

直截式鑽夾頭刀桿



- The shank and keyless drill chuck are combined together so that to avoid the drill chuck slipping out for heavy-duty and high-speed cutting.
- Wrench is attached for each APU drill chuck holder.
- APU 刀桿和鑽夾頭結為一體，可避免鑽頭於高速及重切削時掉落或鬆脫
- 每支 APU 刀桿均附 1 支扳手

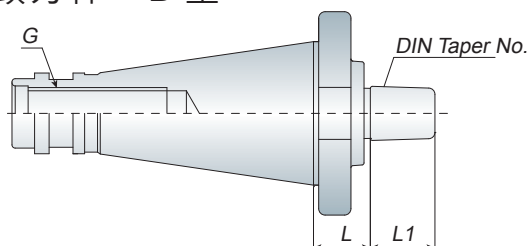
Model No.	Clamping Range	D	L		G	Weight (kg)
			Min.	Max.		
SK40 APU08-075	1~8	36.3	69	76.5	M16	1.30
APU13-100	1~13	51.5	88	99	M16	1.90
APU16-120	3~16	58	106	120	M16	2.30
SK50 APU08-085	1~8	36.3	80	87.5	M16	3.50
APU13-110	1~13	51.5	99	110	M16	3.80
-170	1~13	51.5	159	170	M24	4.50
APU16-120	3~16	58	106	120	M24	4.20
-180	3~16	58	166	180	M24	5.50

Unit: mm



Drill Chuck Holder - B Type

鑽夾頭刀桿 - B 型

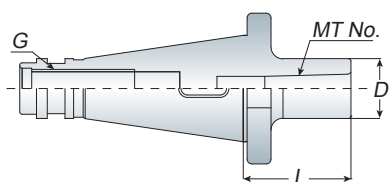


Model No.	DIN Taper No.	L	L1	G	Weight (kg)
SK40 B12	B12	15	18.5	M16	1.00
B16	B16	17	24	M16	1.00
B18	B18	17	32	M16	1.10
SK50 B16	B16	20	24	M24	2.50
B18	B18	20	32	M24	2.70

Unit: mm

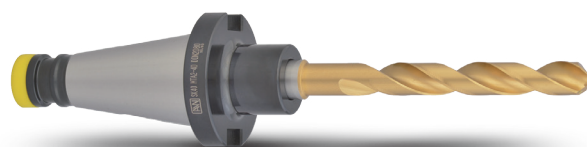
Morse Taper Holder

莫氏錐度刀桿 - A 型



MTA

SK
series
DIN 2080



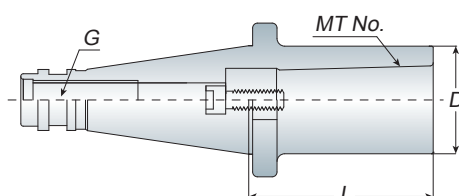
- The tool holder for morse taper shank with internal tang.

Model No.	MT. No.	D	L	Capacity			G	Weight (kg)
				Drill	Reamer	End Mill		
SK40 MTA1-050	MTA1	25	50	2~14	5~14	10~14	M16	1.00
MTA2-050	MTA2	32	50	14~23	14.5~23	16~22	M16	1.10
MTA3-065	MTA3	40	65	23~32	24~32	24~32	M16	1.50
MTA4-095	MTA4	50	95	32~50	32~50	35~50	M16	1.80
SK50 MTA1-045	MTA1	25	45	2~14	5~14	10~14	M24	2.80
MTA2-060	MTA2	32	60	14~23	14.5~23	16~22	M24	2.90
MTA3-065	MTA3	40	65	23~32	24~32	24~32	M24	3.00
MTA4-070	MTA4	50	70	32~50	32~50	35~50	M24	3.10
MTA5-105	MTA5	65	105	50~75	50	40~75	M24	3.70

Unit: mm

Morse Taper Holder

莫氏錐度刀桿 - B 型



MTB



- The tool holder for morse taper shank with internal draw bolt thread.

Model No.	MT. No.	D	L	Capacity			G	Weight (kg)
				Drill	Reamer	End Mill		
SK40 MTB1-050	MTB1	25	50	2~14	5~14	10~14	M16	1.00
MTB2-050	MTB2	32	50	14~23	14.5~23	16~22	M16	1.00
MTB3-065	MTB3	40	65	23~32	24~32	24~32	M16	1.20
SK50 MTB1-060	MTB1	25	60	2~14	5~14	10~14	M24	2.80
MTB2-060	MTB2	32	60	14~23	14.5~23	16~22	M24	2.80
MTB3-065	MTB3	40	65	23~32	24~32	24~32	M24	2.90
MTB4-085	MTB4	50	85	32~50	32~50	35~50	M24	3.00

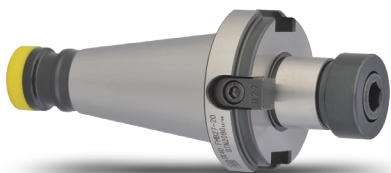
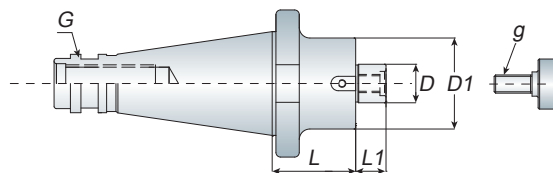
Unit: mm

SK
series
DIN 2080

FMB

Face Mill Holder - Metric

平面銑刀桿



- Face mill holder equips with screw and drive keys to assemble the face mill cutter to the holder.
- Face mill cutter must be ordered separately.
- 每支 FMB 面銑刀桿均附有螺絲及擋耳以裝配面銑刀盤使用
- 面銑刀盤為另購品

Model No.	D	D1	L	L1	g	G	Weight (kg)
SK40 FMB16-020	16	38	20	17	M8	M16	1.10
FMB22-020	22	48	20	19	M10	M16	1.10
FMB27-020	27	58	20	21	M12	M16	1.20
FMB32-020	32	78	20	24	M16	M16	1.50
FMB40-020	40	88	20	27	M20	M16	1.70
SK50 FMB22	22	48	30.2	19	M10	M24	3.10
FMB27	27	58	30.2	21	M12	M24	3.20
FMB32	32	78	30.2	24	M16	M24	3.40
FMB40	40	88	30.2	27	M20	M24	3.60

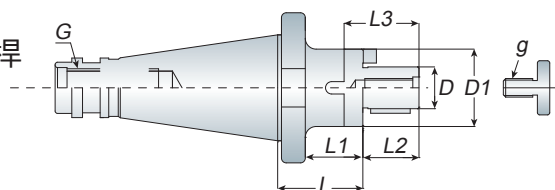
Unit: mm

CS



Combined Face Mill Holder

殼型平面銑刀桿



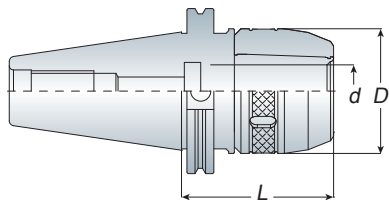
- Face mill cutter must be ordered separately.
- 面銑刀盤為另購品



P174/175-
Face Mill Cutter

Model No.	D	D1	L	L1	L2	L3	g	G	Weight (kg)
SK40 CS16	16	32	51.6	40	17	27	M8	M16	1.30
CS22	22	40	51.6	40	19	31	M10	M16	1.40
CS27	27	48	51.6	40	21	33	M12	M16	1.70
CS32	32	58	51.6	40	24	38	M16	M16	1.90
CS40	40	70	51.6	40	27	41	M20	M16	2.40
SK50 CS16	16	32	55.2	40	17	27	M8	M24	3.10
CS22	22	40	55.2	40	19	31	M10	M24	3.30
CS27	27	48	55.2	40	21	33	M12	M24	3.50
CS32	32	58	55.2	40	24	38	M16	M24	3.90
CS40	40	70	55.2	40	27	41	M20	M24	4.30

Unit: mm



Milling Chuck

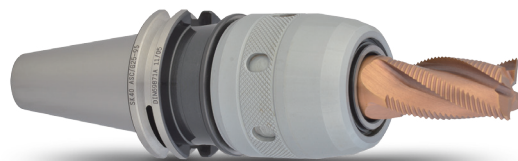
強力銑刀夾頭刀桿

ASC

CAT
series

Model No.	Clamping Range	d	D	L	Collet Type	Weight (kg)
CAT40 ASC3/4"- 3.75"	1/4"~3/4"	3/4"	2.13"	3.75"	SC3/4"	2.10
CAT40 ASC1"- 3.75"	1/4"~1"	1"	2.28"	3.75"	SC1"	1.90
CAT40 ASC1-1/4"- 3.75"	1/4"~1-1/4"	1-1/4"	2.67"	3.75"	SC1-1/4"	2.20
CAT50 ASC1"- 3.75"	1/4"~1"	1"	2.28"	3.75"	SC1"	4.10
CAT50 ASC1-1/4"- 4.15"	1/4"~1-1/4"	1-1/4"	2.67"	4.15"	SC1-1/4"	4.70

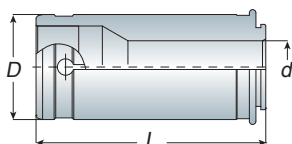
Unit: mm



- C-type wrench is attached for each ASC milling chuck.
- 每支 ASC 刀桿均附 1 支 C 型扳手



- **ASC Milling Chuck** with nut for bearing wrench is available.
- Please change name from ASC to ASG of each model no. when ordering.
- 螺帽部分配合軸承扳手使用，訂購時，請更改品名為 ASG
- Example: CAT40 ASG1"-3.75"



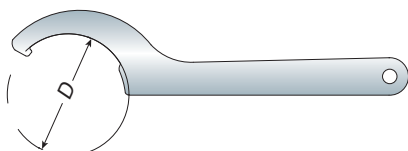
Straight Collet

直束筒夾

SC

Model No.	D	d	L	Weight (kg)
SC3/4"	3/4"	1/8,3/16,1/4,5/16,3/8,7/16,1/2,9/16,5/8	2.0"	0.10
SC1"	1"	1/4,3/8,7/16,1/2,5/8,3/4	2.5"	0.20
SC1-1/4"	1-1/4"	1/4,3/8,7/16,1/2,5/8,3/4,1	2.8"	0.30

Unit: mm



C-Type Wrench

C 型扳手

ASC

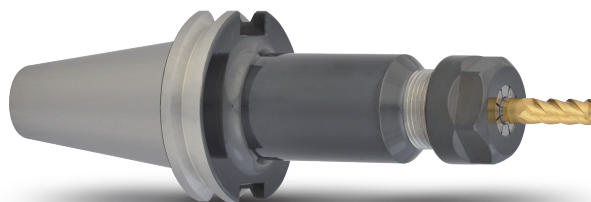
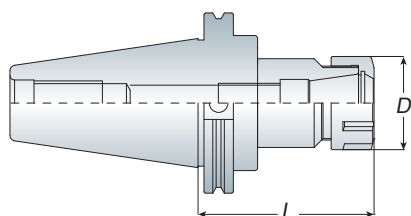
Model No.	D	Suit For	Weight (kg)
WASC3/4"	2.13"	ASC3/4"	0.20
WASC1"	2.28"	CAT40 ASC1"	0.30
WASC1-1/4"	2.67"	CAT40 ASC1-1/4" CAT50 ASC1"/ ASC1-1/4"	0.35

Unit: mm



Spring Collet Chuck

彈性筒夾本體



Features

- ER collet chuck with the flexibility that can clamp drill, reamers, end mills and taps.
- ER11 / ER16 / ER20 holder can make M type as your choice.
- ER16 / ER20 / ER25 / ER32 / ER40 are also suitable for ER bearing nut and wrench.
- Wrench must be ordered separately.
- ER 筒夾具有彈性，適合夾持鑽頭、鉸刀、銑刀及絲攻刀具
- ER11 / ER16 / ER20 刀桿另有 M 型可供選擇
- ER16 / ER20 / ER25 / ER32 / ER40 刀桿可另外選配鋼珠螺帽及扳手
- ER 扳手為另購品



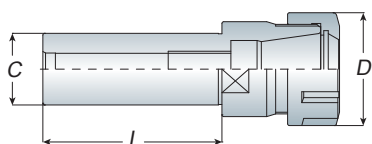
P14- ER Nut

P11- ER Collet

P14- Wrench

Model No.	Clamping Range	D	L	Collet Type	Wrench	Weight (kg)
CAT40 ER11-2.50"	1/32" ~ 1/4"	0.75"	2.50"	ER11	WER11	1.10
-4.00"	1/32" ~ 1/4"	0.75"	4.00"	ER11	WER11	1.10
ER16-2.50"	1/32" ~ 3/8"	1.10"	2.50"	ER16	WER16	1.20
-3.00"	1/32" ~ 3/8"	1.10"	3.00"	ER16	WER16	1.30
-5.00"	1/32" ~ 3/8"	1.10"	5.00"	ER16	WER16	1.50
ER20-3.00"	1/16" ~ 1/2"	1.34"	3.00"	ER20	WER20	1.30
-4.00"	1/16" ~ 1/2"	1.34"	4.00"	ER20	WER20	1.40
ER25-2.50"	1/16" ~ 5/8"	1.65"	2.50"	ER25	WER25	1.30
-4.00"	1/16" ~ 5/8"	1.65"	4.00"	ER25	WER25	1.70
ER32-3.00"	3/32" ~ 25/32"	2.00"	3.00"	ER32	WER32	1.40
-4.00"	3/32" ~ 25/32"	2.00"	4.00"	ER32	WER32	1.80
ER40-3.00"	1/8" ~ 1"	2.50"	3.00"	ER40	WER40	1.50
-4.00"	1/8" ~ 1"	2.50"	4.00"	ER40	WER40	1.90
CAT50 ER16-4.00"	1/32" ~ 3/8"	1.10"	4.00"	ER16	WER16	3.20
-6.00"	1/32" ~ 3/8"	1.10"	6.00"	ER16	WER16	3.50
ER20-4.00"	1/16" ~ 1/2"	1.34"	4.00"	ER20	WER20	3.30
-6.00"	1/16" ~ 1/2"	1.34"	6.00"	ER20	WER20	3.60
ER25-4.00"	1/16" ~ 5/8"	1.65"	4.00"	ER25	WER25	3.50
-6.00"	1/16" ~ 5/8"	1.65"	6.00"	ER25	WER25	3.70
ER32-4.00"	3/32" ~ 25/32"	2.00"	4.00"	ER32	WER32	3.70
-6.00"	3/32" ~ 25/32"	2.00"	6.00"	ER32	WER32	3.90
ER40-4.00"	1/8" ~ 1"	2.50"	4.00"	ER40	WER40	4.20
-6.00"	1/8" ~ 1"	2.50"	6.00"	ER40	WER40	6.60

Unit: mm



Straight Shank

直柄彈性筒夾本體

ER

CAT
series

Model No.	C	D	L	Collet Type	Weight (kg)
C3/4" ER16-2.00"	3/4"	28	2.00"	ER16	0.20
-4.00"	3/4"	28	4.00"	ER16	0.35
-6.00"	3/4"	28	6.00"	ER16	0.45
ER20-2.00"	3/4"	34	2.00"	ER20	0.25
-4.00"	3/4"	34	4.00"	ER20	0.40
-6.00"	3/4"	34	6.00"	ER20	0.50
ER25-2.00"	3/4"	42	2.00"	ER25	0.40
-4.00"	3/4"	42	4.00"	ER25	0.50
-6.00"	3/4"	42	6.00"	ER25	0.70
C1" ER16-4.00"	1"	28	4.00"	ER16	0.40
-6.00"	1"	28	6.00"	ER16	0.70
ER20-4.00"	1"	34	4.00"	ER20	0.50
-6.00"	1"	34	6.00"	ER20	0.75
ER25-4.00"	1"	42	4.00"	ER25	0.60
-6.00"	1"	42	6.00"	ER25	0.80
ER32-3.15"	1"	50	3.15"	ER32	0.80
ER40-4.00"	1"	63	4.00"	ER40	1.10
C1-1/4" ER25-2.00"	1-1/4"	42	2.00"	ER25	0.60
ER32-4.00"	1-1/4"	50	4.00"	ER32	1.10
ER40-4.00"	1-1/4"	63	4.00"	ER40	1.30

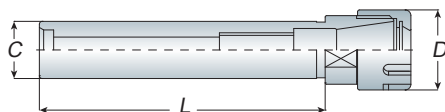
Unit: mm



- Wrench must be ordered separately.
- ER 扳手為另購品

Straight Shank - M Type

直柄彈性筒夾本體 - M 型



Model No.	C	D	L	Collet Type	Weight (kg)
C5/8" ER11-2.00"(M)	5/8"	16	2.00"	ER11	0.20
-4.00"(M)	5/8"	16	4.00"	ER11	0.30
C3/4" ER16-2.00"(M)	3/4"	22	2.00"	ER16	0.20
-4.00"(M)	3/4"	22	4.00"	ER16	0.30
-6.00"(M)	3/4"	22	6.00"	ER16	0.40
ER20-2.00"(M)	3/4"	28	2.00"	ER20	0.20
-4.00"(M)	3/4"	28	4.00"	ER20	0.35
-6.00"(M)	3/4"	28	6.00"	ER20	0.50
C1" ER20-2.00"(M)	1"	28	2.00"	ER20	0.30
-4.00"(M)	1"	28	4.00"	ER20	0.50
-6.00"(M)	1"	28	6.00"	ER20	0.60

Unit: mm



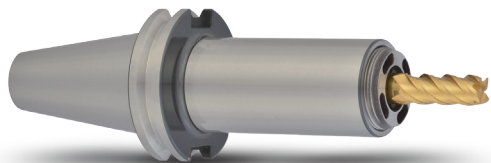
- Wrench must be ordered separately.
- ER 扳手為另購品



P14- ER Nut

P11- ER Collet

P14- Wrench

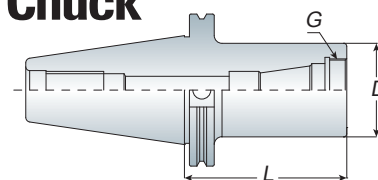


- The clamping nuts for ERA are special designed to be fitted internally into the holder. The special design could provide better cutting conditions and reducing cutting vibrations.
- Wrench must be ordered separately.
- Max speed: 30,000 r.p.m G2.5
- 特殊內藏式螺帽設計：可降低及減少切削時所產生的阻力與振動，並提升加工品質及穩定性
- ERA 扳手為另購品
- 最高轉速可達 30,000 r.p.m G2.5



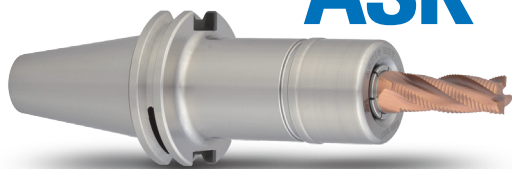
High Speed Collet Chuck

高速彈性筒夾本體

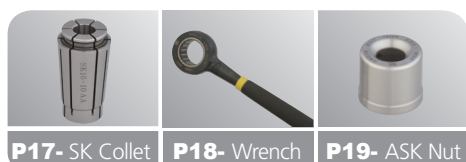


Model No.	Clamping Range	D	L	G	Weight (kg)
CAT40 ERA11-2.50"	1/32" ~ 1/4"	0.75"	2.50"	M18x1.0P	1.00
	-4.00"	0.75"	4.00"	M18x1.0P	1.20
ERA16-2.50"	1/32" ~ 3/8"	1.10"	2.50"	M24x1.0P	1.10
	-3.00"	1.10"	3.00"	M24x1.0P	1.30
	-5.00"	1.10"	5.00"	M24x1.0P	1.60
ERA20-3.00"	1/16" ~ 1/2"	1.25"	3.00"	M28x1.5P	1.20
	-4.00"	1.25"	4.00"	M28x1.5P	1.30
ERA25-2.50"	1/16" ~ 5/8"	1.50"	2.50"	M32x1.5P	1.30
	-4.00"	1.50"	4.00"	M32x1.5P	1.50
ERA32-3.00"	3/32" ~ 25/32"	1.81"	3.00"	M40x1.5P	1.40
	-4.00"	1.81"	4.00"	M40x1.5P	1.70
CAT50 ERA16-4.00"	1/32" ~ 3/8"	1.10"	4.00"	M24x1.0P	3.30
	-6.00"	1.10"	6.00"	M24x1.0P	3.60
ERA20-4.00"	1/16" ~ 1/2"	1.25"	4.00"	M28x1.5P	3.40
	-6.00"	1.25"	6.00"	M28x1.5P	3.70
ERA25-4.00"	1/16" ~ 5/8"	1.50"	4.00"	M32x1.5P	3.50
	-6.00"	1.50"	6.00"	M32x1.5P	3.80
ERA32-4.00"	3/32" ~ 25/32"	1.81"	4.00"	M40x1.5P	3.80
	-6.00"	1.81"	6.00"	M40x1.5P	4.10

Unit: mm

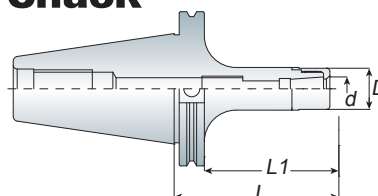


- ASK tooling systems are suitable for high speed and high precision cutting.
- Special nut design provides better cutting condition and reducing cutting vibration.
- ASK collet can be achieve the best cutting condition when using AA grade.
- Wrench must be ordered separately.
- Max speed: 30,000 r.p.m G2.5
- ASK 系列適用於高轉速、高精密切削加工，切削效果佳
- 螺帽獨特設計可降低高轉速切削時的風阻及噪音並提升工作效能
- 欲達到切削效果佳，可搭配使用 AA 級筒夾
- ASK 扳手為另購品
- 最高轉速可達 30,000 r.p.m G2.5



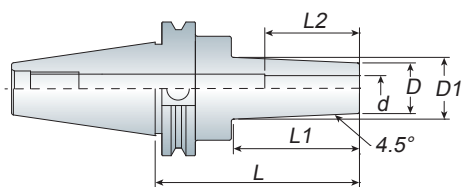
High Speed Collet Chuck

高轉速精密筒夾本體



Model No.	Clamping Range (d)	D	L1	L	Weight (kg)
CAT40 ASK10-3.15"	2~10	27	2.40"	3.15"	1.20
	-4.00"	27	3.25"	4.00"	1.40
ASK16-3.15"	3~16	40	2.40"	3.15"	1.40
	-4.00"	40	3.25"	4.00"	1.50
ASK25-4.00"	6~25.4	54	3.25"	4.00"	1.90
CAT50 ASK10-4.00"	2~10	27	3.25"	4.00"	3.30
ASK16-4.00"	3~16	40	3.25"	4.00"	3.50
	-6.00"	40	5.25"	6.00"	3.90
ASK25-4.00"	6~25.4	54	3.25"	4.00"	3.80
	-6.00"	54	5.25"	6.00"	4.20

Unit: mm

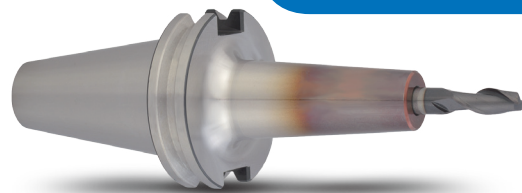


Shrink Chuck

燒結式刀桿

ASR

CAT
series

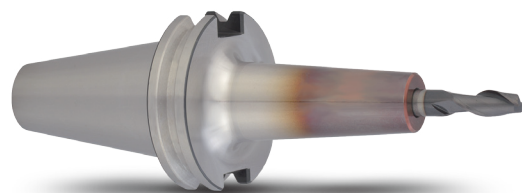
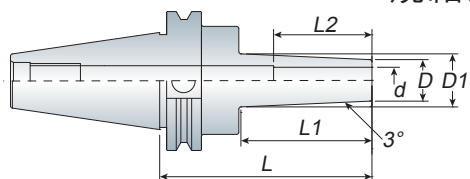


Model No.	d	D	D1	L	L1	L2
CAT40 ASR1/8"-3.50"	1/8"	0.44"	0.66"	3.50"	2.12"	0.787"
ASR3/16"-3.50"	3/16"	0.50"	0.72"	3.50"	2.12"	0.787"
ASR1/4"-3.50"	1/4"	0.56"	0.78"	3.50"	2.12"	0.866"
ASR3/8"-3.50"	3/8"	0.69"	0.91"	3.50"	2.12"	1.220"
ASR1/2"-3.50"	1/2"	0.81"	1.03"	3.50"	2.12"	1.417"

Unit: mm

Shrink Chuck - Rigidity Type

燒結式刀桿 - 高剛性型



Model No.	d	D	D1	L	L1	L2
CAT40 ASR1/4"-3.50"T	1/4"	0.787"	1.063"	3.50"	2.12"	0.866"
ASR3/8"-3.50"T	3/8"	0.945"	1.260"	3.50"	2.12"	1.220"
ASR1/2"-3.50"T	1/2"	0.945"	1.260"	3.50"	2.12"	1.417"
ASR5/8"-3.50"T	5/8"	1.063"	1.339"	3.50"	2.12"	1.535"
ASR3/4"-4.00"T	3/4"	1.299"	1.654"	4.00"	3.37"	1.850"
ASR1"-4.00"T	1"	1.732"	2.087"	4.00"	3.37"	1.850"
CAT50 ASR1/2"-4.00"T	1/2"	0.945"	1.260"	4.00"	3.37"	1.417"
ASR5/8"-4.00"T	5/8"	1.063"	1.339"	4.00"	3.37"	1.535"
ASR3/4"-4.00"T	3/4"	1.299"	1.654"	4.00"	3.37"	1.614"
ASR1"-4.00"T	1"	1.732"	2.087"	4.00"	3.37"	1.850"
ASR1-1/4"-4.00"T	1-1/4"	1.732"	2.087"	4.00"	3.37"	2.008"

Unit: mm

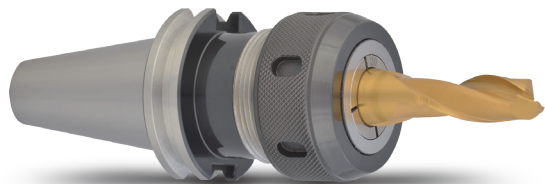
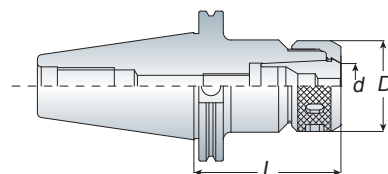
- Runout $\leq 0.0001"$ (4xD)
- Max speed: 30,000 r.p.m. G2.5
- Heater specification => refer to P.24
- Tools are restricted by material of h6 carbide tool.
- 跳動精度 $\leq 0.0001"$ (4xD)
- 最高轉速可達 30,000 r.p.m. G2.5
- 刀桿加熱器規格請參考 P.24
- 刀具線用 h6 鎢鋼刀具

CAT
series

OZ

Collet Chuck

重切削筒夾本體



- OZ collet chuck can clamp drill, end mills and taps.
- Wrench must be ordered separately.
- OZ 重切削刀桿可用於夾持鑽頭、銑刀及絲攻刀具
- OZ 扳手為另購品



P26- Wrench

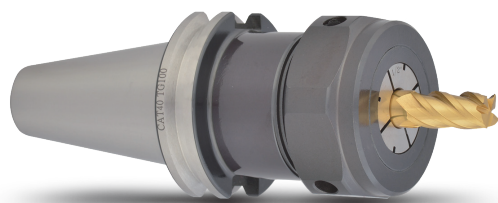
P26- OZ Collet

P26- OZ Nut

Model No.	d	D	L	Collet Type	Weight (kg)
CAT40 OZ25-2.25"	1/8"~1"	2.36"	2.25"	OZ25	1.40
-4.00"	1/8"~1"	2.36"	4.00"	OZ25	2.40
OZ32-2.25"	1/4"~1-1/4"	2.83"	2.25"	OZ32	1.70
-4.00"	1/4"~1-1/4"	2.83"	4.00"	OZ32	2.50
CAT50 OZ25-2.25"	1/8"~1"	2.36"	2.25"	OZ25	3.40
-4.00"	1/8"~1"	2.36"	4.00"	OZ25	4.00
OZ32-2.25"	1/4"~1-1/4"	2.83"	2.25"	OZ32	4.10
-4.00"	1/4"~1-1/4"	2.83"	4.00"	OZ32	5.00

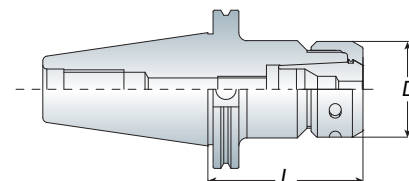
Unit: mm

TG



TG100 Collet Chuck

筒夾本體



Model No.	D	L	Collet Type	Weight (kg)
CAT40 TG100-3.00"	2.50"	3.00"	TG100	1.50
CAT50 TG100-3.50"	2.50"	3.50"	TG100	1.80

Unit: mm

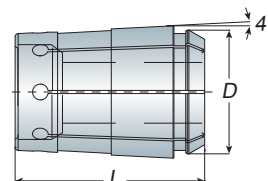


TG100 Collet

筒夾

Model No.	D	L	Weight (kg)
TG100	35	61	0.20

Unit: mm



Model No.	Size
TG100-1/2"	1/2"
TG100-1/4"	1/4"
TG100-3/4"	3/4"
TG100-1/8"	1/8"
TG100-3/8"	3/8"
TG100-5/8"	5/8"
TG100-7/8"	7/8"
TG100-3/16"	3/16"
TG100-5/16"	5/16"
TG100-7/16"	7/16"
TG100-9/16"	9/16"
TG100-11/16"	11/16"
TG100-13/16"	13/16"
TG100-15/16"	15/16"
TG100-1"	1"

Unit: mm

Model No.	Size
TG100-5/32"	5/32"
TG100-7/32"	7/32"
TG100-9/32"	9/32"
TG100-11/32"	11/32"
TG100-13/32"	13/32"
TG100-15/32"	15/32"
TG100-17/32"	17/32"
TG100-19/32"	19/32"
TG100-21/32"	21/32"
TG100-23/32"	23/32"
TG100-25/32"	25/32"
TG100-27/32"	27/32"
TG100-29/32"	29/32"
TG100-31/32"	31/32"

Unit: mm

Model No.	Size
TG100-9/64"	9/64"
TG100-11/64"	11/64"
TG100-13/64"	13/64"
TG100-15/64"	15/64"
TG100-17/64"	17/64"
TG100-19/64"	19/64"
TG100-21/64"	21/64"
TG100-23/64"	23/64"
TG100-25/64"	25/64"
TG100-27/64"	27/64"
TG100-29/64"	29/64"
TG100-31/64"	31/64"
TG100-33/64"	33/64"
TG100-35/64"	35/64"
TG100-37/64"	37/64"

Unit: mm

Model No.	Size
TG100-39/64"	39/64"
TG100-41/64"	41/64"
TG100-43/64"	43/64"
TG100-45/64"	45/64"
TG100-47/64"	47/64"
TG100-49/64"	49/64"
TG100-51/64"	51/64"
TG100-53/64"	53/64"
TG100-55/64"	55/64"
TG100-57/64"	57/64"
TG100-59/64"	59/64"
TG100-61/64"	61/64"
TG100-63/64"	63/64"

Unit: mm

End Mill Holder

側固端銑刀桿

EM

CAT
series

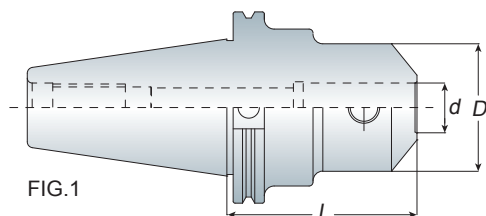


FIG.1

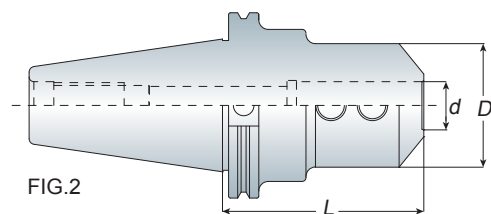
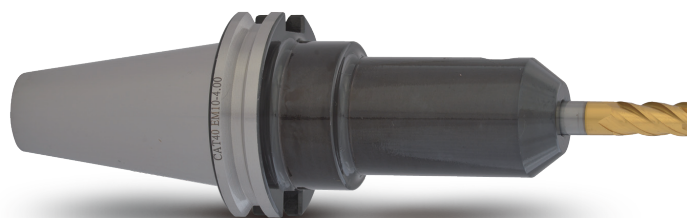


FIG.2



Features

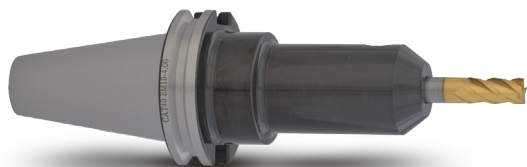
- For straight shank end mill.
- End mill is held by one (FIG.1) or two (FIG.2) set screws.
- End mill holder comes equipped with set screws.
- 適用於夾持直柄銑刀，可用在一般銑削加工
- 夾持銑刀之固定螺絲分為一個 (FIG.1) 或兩個 (FIG.2)
- 刀桿本身已裝配固定螺絲

Model No.	FIG.	d	D	L	Weight (kg)
CAT40 EM.125-1.75"	1	0.125"	0.75"	1.75"	0.80
-2.50"	1	0.125"	0.75"	2.50"	0.90
-3.00"	1	0.125"	0.75"	3.00"	1.10
EM.1875-1.75"	1	0.1875"	0.75"	1.75"	0.95
-2.50"	1	0.1875"	0.75"	2.50"	1.00
-3.00"	1	0.1875"	0.75"	3.00"	1.20
EM.25-1.75"	1	0.25"	0.8125"	1.75"	0.95
-2.50"	1	0.25"	0.8125"	2.50"	1.20
-3.00"	1	0.25"	0.8125"	3.00"	1.30
EM.3125-1.75"	1	0.3125"	0.875"	1.75"	0.95
-2.50"	1	0.3125"	0.875"	2.50"	1.20
-3.00"	1	0.3125"	0.875"	3.00"	1.30
EM.375-1.75"	1	0.375"	1.00"	1.75"	1.00
-2.50"	1	0.375"	1.00"	2.50"	1.20
-3.00"	1	0.375"	1.00"	3.00"	1.30
EM.4375-1.75"	1	0.4375"	1.375"	1.75"	1.10
-2.62"	1	0.4375"	1.375"	2.62"	1.25
EM.5-1.75"	1	0.50"	1.375"	1.75"	1.15
-2.50"	1	0.50"	1.375"	2.50"	1.25
-3.00"	1	0.50"	1.375"	3.00"	1.30
EM.625-1.75"	1	0.625"	1.625"	1.75"	1.10
-3.00"	1	0.625"	1.625"	3.00"	1.35
EM.75-2.50"	1	0.75"	1.75"	2.50"	1.30
-3.00"	1	0.75"	1.75"	3.00"	1.40
EM.875-1.75"	1	0.875"	2.00"	1.75"	1.20
-3.50"	2	0.875"	2.00"	3.50"	1.80
EM1-2.50"	1	1"	2.375"	2.50"	1.40
-3.00"	2	1"	2.375"	3.00"	1.50
EM1.25-3.00"	2	1.25"	2.50"	3.00"	1.60
-3.75"	2	1.25"	2.50"	3.75"	1.70
-4.00"	2	1.25"	2.50"	4.00"	2.00
EM1.5-4.00"	2	1.5"	3.00"	4.00"	2.10
-4.62"	2	1.5"	3.00"	4.62"	2.30

Unit: mm

End Mill Holder

側固端銑刀桿



- For straight shank end mill.
- End mill is held by one (FIG.1) or two (FIG.2) set screws.
- End mill holder comes equipped with set screws.
- 適用於夾持直柄銑刀，可用在一般銑削加工
- 夾持銑刀之固定螺絲分為一個 (FIG.1) 或兩個 (FIG.2)
- 刀桿本身已裝配固定螺絲

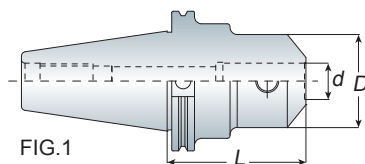


FIG.1

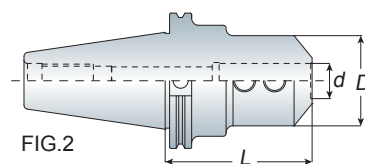
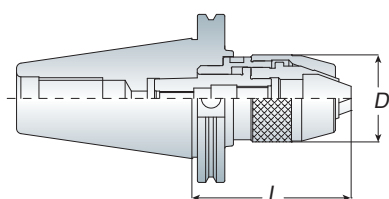


FIG.2

Model No.	FIG.	d	D	L	Weight (kg)
CAT50 EM.25-2.50"	1	0.25"	0.8125"	2.50"	3.40
-4.00"	1	0.25"	0.8125"	4.00"	3.80
EM.375-2.50"	1	0.375"	1.00"	2.50"	3.40
-4.00"	1	0.375"	1.00"	4.00"	3.80
EM.4375-2.50"	1	0.4375"	1.375"	2.50"	3.50
-4.00"	1	0.4375"	1.375"	4.00"	3.90
EM.5-2.625"	1	0.50"	1.375"	2.625"	3.60
-4.00"	1	0.50"	1.375"	4.00"	4.00
EM.625-3.00"	1	0.625"	1.625"	3.00"	3.70
-4.00"	1	0.625"	1.625"	4.00"	4.00
EM.75-3.00"	1	0.75"	1.875"	3.00"	3.70
-4.00"	1	0.75"	1.875"	4.00"	4.00
EM.875-3.75"	2	0.875"	2.00"	3.75"	3.90
EM1-4.00"	2	1.00"	2.375"	4.00"	4.20
EM1.25-4.00"	2	1.25"	2.50"	4.00"	4.60
EM1.5-4.50"	2	1.50"	3.00"	4.50"	5.40
EM2-5.375"	2	2.00"	3.75"	5.375"	6.40

Model No.	FIG.	d	D	L	Weight (kg)
CAT40 EM06-050	1	6	25	50	1.00
EM08-050	1	8	28	50	1.00
EM10-050	1	10	35	50	1.10
EM12-050	1	12	42	50	1.20
EM16-063	1	16	48	63	1.40
EM20-063	1	20	52	63	1.40
EM25-100	2	25	65	100	2.00
EM32-100	2	32	72	100	2.30
CAT50 EM06-063	1	6	25	63	2.90
EM08-063	1	8	28	63	3.00
EM10-063	1	10	35	63	3.10
EM12-063	1	12	42	63	3.30
EM16-063	1	16	48	63	3.30
EM20-063	1	20	52	63	3.40
EM25-080	2	25	65	80	3.90
EM32-100	2	32	72	100	4.70
EM40-120	2	40	90	120	5.50
EM50-130	2	50	100	130	6.30

Unit: mm



Drill Chuck Holder

直截式鑽夾頭刀桿

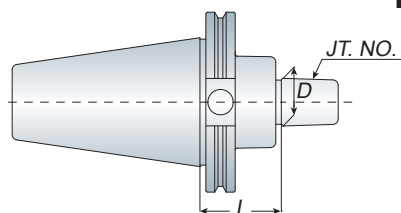
APU

CAT
series



Model No.	Clamping Range		D		L				Weight (kg)
					Min.		Max.		
	mm	inch	mm	inch	mm	inch	mm	inch	
CAT40 APU08	1~8	1/32" ~5/16"	36.3	1.429"	65	2.559"	76.5	3.011"	1.40
APU13	1~13	1/32" ~1/2"	51.5	2.028"	88	3.464"	99	3.897"	1.80
APU16	3~16	3/32" ~5/8"	58	2.283"	106	4.173"	120	4.724"	2.40
CAT50 APU08	1~8	1/32" ~5/16"	36.3	1.429"	70	2.755"	77.5	3.051"	3.30
APU13	1~13	1/32" ~1/2"	51.5	2.028"	89	3.503"	100	3.937"	3.80
APU16	3~16	3/32" ~5/8"	58	2.283"	96	3.779"	110	4.330"	4.10

- The shank and keyless drill chuck are combined together so that to avoid the drill chuck slipping out for heavy-duty and high-speed cutting.
- Wrench is attached for each APU drill chuck holder.
- APU 刀桿和鑽夾頭結為一體，可避免鑽頭於高速及重切削時掉落或鬆脫
- 每支 APU 刀桿均附 1 支扳手



Drill Chuck Holder

鑽夾頭刀桿

JTA



Model No.	JT. No.	D	L	Weight (kg)
CAT40 JTA1	JTA1	0.384"	1.375"	1.10
JTA2	JTA2	0.548"	1.375"	1.10
JTA6	JTA6	0.676"	1.375"	1.15
CAT50 JTA1	JTA1	0.384"	1.375"	3.00
JTA2	JTA2	0.548"	1.375"	3.20
JTA6	JTA6	0.676"	1.375"	3.30

- Keyless drill mount must be ordered separately.
- 鑽夾頭為另購品



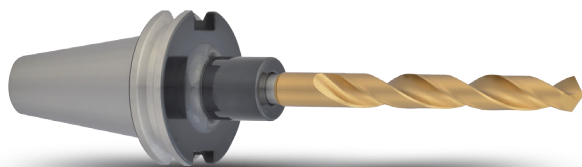
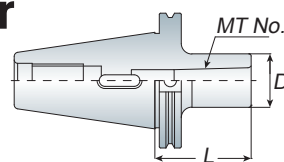
P34/35- Keyless
Drill Mount

CAT
series

MTA

Morse Taper Holder

莫氏錐度刀桿 - A 型



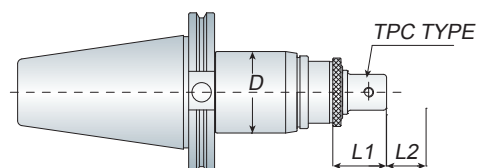
- The tool holder for morse taper shank with internal tang.

Model No.	MT. No.	D	L	Weight (kg)
CAT40 MTA1-1.75"	MTA1	1.00"	1.75"	1.00
MTA2-2.44"	MTA2	1.25"	2.44"	1.10
MTA3-3.00"	MTA3	1.62"	3.00"	1.20
MTA4-3.75"	MTA4	2.20"	3.75"	1.40
CAT50 MTA1-1.50"	MTA1	1.00"	1.50"	2.80
MTA2-2.00"	MTA2	1.25"	2.00"	2.90
MTA3-2.50"	MTA3	1.62"	2.50"	3.00
MTA4-3.38"	MTA4	2.20"	3.38"	3.30
MTA5-3.75"	MTA5	2.75"	3.75"	3.40

TPM

Tension & Compression Tap Holder

扭力伸縮攻牙本體



- L1: Compression, L2: Tension
- Quick change: Push back on the holder sleeve, and the tap collet is removable easily.



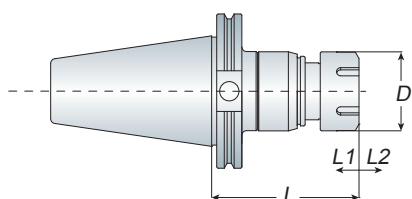
Model No.	D		L1		L2		Tapping Range		Collet Type	Weight (kg)
	mm	inch	mm	inch	mm	inch	mm	inch		
CAT40 TPM316	48	1.890"	10	0.394"	20	0.787"	M3~M16	3/32"~5/8"	TPC316	1.60
CAT50 TPM316	48	1.890"	10	0.394"	20	0.787"	M3~M16	3/32"~5/8"	TPC316	3.50
CAT40 TPM830	66	2.598"	10	0.394"	25	0.984"	M8~M30	5/16"~11/8"	TPC830	2.90
CAT50 TPM830	66	2.598"	10	0.394"	25	0.984"	M8~M30	5/16"~11/8"	TPC830	3.80



P40-TPC Collet

Tension & Compression Tap Holder

剛性伸縮攻牙本體



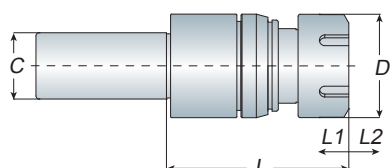
TER

CAT
series



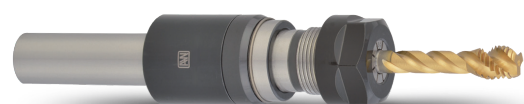
Model No.	D		L		L1		L2		Tapping Range	Collet Type	Weight (kg)
	mm	inch	mm	inch	mm	inch	mm	inch			
CAT40 TER16	28	1.10"	77	3.020"	5	0.197"	8	0.315"	M3~M10	ER16	1.10
TER20	34	1.34"	86	3.386"	5	0.197"	8	0.315"	M3~M12	ER20	1.20
TER25	42	1.65"	90	3.543"	5	0.197"	8	0.315"	M4~M16	ER25	1.40
TER32	50	1.97"	94	3.700"	5	0.197"	8	0.315"	M4~M22	ER32	1.70
TER40	63	2.48"	98	3.858"	5	0.197"	8	0.315"	M6~M30	ER40	2.90
CAT50 TER16	28	1.10"	80	3.150"	5	0.197"	8	0.315"	M3~M10	ER16	2.70
TER20	34	1.34"	99	3.900"	5	0.197"	8	0.315"	M3~M12	ER20	2.80
TER25	42	1.65"	97	3.820"	5	0.197"	8	0.315"	M4~M16	ER25	3.10
TER32	50	1.97"	95	3.740"	5	0.197"	8	0.315"	M4~M22	ER32	3.30
TER40	63	2.48"	117	4.606"	5	0.197"	8	0.315"	M6~M30	ER40	4.30

- TER tap holder uses the ER spring collet and easy to get.
- The nut could not be over tightening to avoid damaging the body and nut.
- Wrench must be ordered separately.
- TER 伸縮攻牙本體須搭配 ER 筒夾做使用
- 使用時，螺帽請勿過度鎖緊以免造成本體及螺帽損壞
- ER 扳手為另購品



Straight Shank

直柄剛性伸縮攻牙本體



Model No.	C	D		L		L1		L2		Tapping Range	Collet Type	Weight (kg)
		mm	inch	mm	inch	mm	inch	mm	inch			
C3/4" TER16	3/4"	28	1.10"	75	2.953"	5	0.197"	12	0.472"	M3~M10	ER16	0.40
TER20	3/4"	34	1.34"	80	3.150"	5	0.197"	12	0.472"	M3~M12	ER20	0.50
TER25	3/4"	42	1.65"	80	3.150"	5	0.197"	12	0.472"	M4~M16	ER25	0.80
C1" TER16	1"	28	1.10"	75	2.953"	5	0.197"	12	0.472"	M3~M10	ER16	0.50
TER20	1"	34	1.34"	80	3.150"	5	0.197"	12	0.472"	M3~M12	ER20	0.60
TER25	1"	42	1.65"	80	3.150"	5	0.197"	12	0.472"	M4~M16	ER25	0.90
TER32	1"	50	1.97"	80	3.150"	5	0.197"	12	0.472"	M4~M22	ER32	1.10
C1-1/4" TER16	1-1/4"	28	1.10"	75	2.953"	5	0.197"	12	0.472"	M3~M10	ER16	0.70
TER20	1-1/4"	34	1.34"	80	3.150"	5	0.197"	12	0.472"	M3~M12	ER20	0.80
TER25	1-1/4"	42	1.65"	80	3.150"	5	0.197"	12	0.472"	M4~M16	ER25	1.00
TER32	1-1/4"	50	1.97"	80	3.150"	5	0.197"	12	0.472"	M4~M22	ER32	1.30
C1-1/2" TER16	1-1/2"	28	1.10"	75	2.953"	5	0.197"	12	0.472"	M3~M10	ER16	1.00
TER20	1-1/2"	34	1.34"	80	3.150"	5	0.197"	12	0.472"	M3~M12	ER20	1.10
TER25	1-1/2"	42	1.65"	80	3.150"	5	0.197"	12	0.472"	M4~M16	ER25	1.30
TER32	1-1/2"	50	1.97"	80	3.150"	5	0.197"	12	0.472"	M4~M22	ER32	1.50

- TER tap holder uses the ER spring collet and easy to get.
- The nut could not be over tightening to avoid damaging the body and nut.
- Straight shank tap holder also has flat shank type to choice. When ordering, please specify "FLAT".
- Wrench must be ordered separately.
- TER 伸縮攻牙本體須搭配 ER 筒夾做使用
- 使用時，螺帽請勿過度鎖緊以免造成本體及螺帽損壞
- 另有直柄削平面可供選購，請於訂購時註明 " 削平面 "
- ER 扳手為另購品



P14- ER Nut

P11/12- ER Collet

P14- Wrench

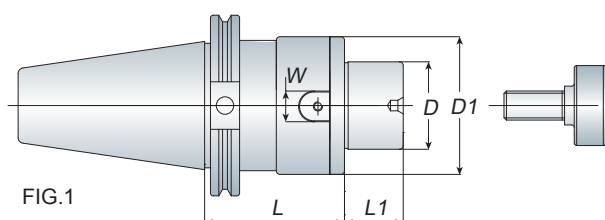
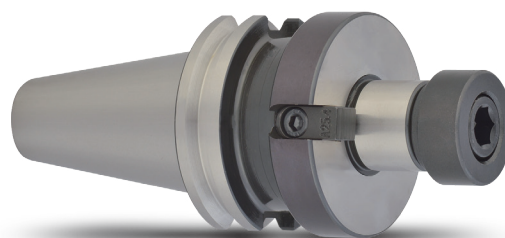


FIG.1

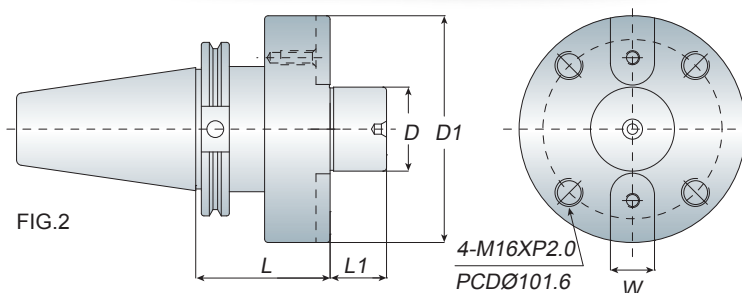


FIG.2

Features

- Face mill holder equips with screw and drive keys to assemble the face mill cutter to the holder.
- Face mill cutter must be ordered separately.
- 每支 FMA 面銑刀桿均附有螺絲及擋耳以裝配面銑刀盤使用
- 面銑刀盤為另購品



P174/175-
Face Mill Cutter

Model No.	FIG.	D		D1	L	L1	W		Weight (kg)
		mm	inch				mm	inch	
CAT40 FMA25.4-1.75"	1	25.4	1"	2.362"	1.75"	17.5	9.5	0.374"	1.60
FMA31.75-2.00"	1	31.75	1.25"	2.756"	2"	17.5	12.7	0.5"	1.70
FMA38.1-2.00"	1	38.1	1.5"	3.346"	2"	23.8	15.9	0.626"	2.60
CAT50 FMA25.4-1.75"	1	25.4	1"	2.362"	1.75"	17.5	9.5	0.374"	3.20
-4.00"	1	25.4	1"	2.362"	4"	17.5	9.5	0.374"	3.30
-6.00"	1	25.4	1"	2.362"	6"	17.5	9.5	0.374"	5.10
FMA31.75-1.75"	1	31.75	1.25"	2.756"	1.75"	17.5	12.7	0.5"	3.40
-4.00"	1	31.75	1.25"	2.756"	4"	17.5	12.7	0.5"	5.20
-6.00"	1	31.75	1.25"	2.756"	6"	17.5	12.7	0.5"	6.30
FMA38.1-2.00"	1	38.1	1.5"	3.346"	2"	23.8	15.9	0.626"	3.50
-4.00"	1	38.1	1.5"	3.346"	4"	23.8	15.9	0.626"	6.10
-6.00"	1	38.1	1.5"	3.346"	6"	23.8	15.9	0.626"	8.50
FMA50.8-2.00"	1	50.8	2"	3.74"	2"	24	19.05	0.75"	4.00
-4.00"	1	50.8	2"	3.74"	4"	24	19.05	0.75"	7.60
-6.00"	1	50.8	2"	3.74"	6"	24	19.05	0.75"	10.20
FMA47.625-3.00"	2	47.625	1.875"	5.26"	3"	32	25.4	1"	7.30

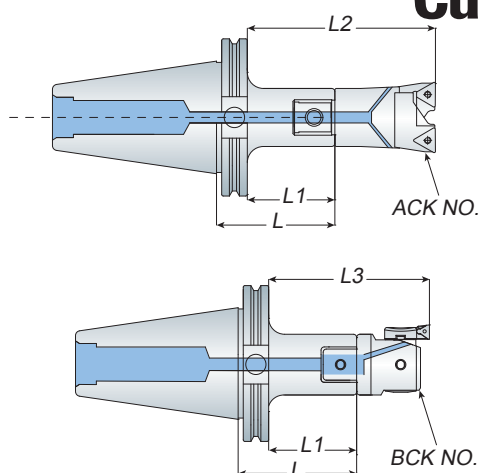
Unit: mm

Adjustable Balance Cutter Tool Holder

搪孔刀桿

ACK BCK

CAT series



Features

- ACK19 ~ ACK90 boring range is from 19mm ~ 122mm.
- BCK20 ~ BCK100 boring range is from 20mm ~ 203mm.
- The ACK holder is coolant type and both for rough and fine boring system.
- Rough boring uses the ACK cutter no. ; Fine boring uses the BCK cutter no.
- The cutter and insert must be ordered separately.
- ACK19 ~ ACK90 其搪孔範圍為：19mm ~ 122mm
- BCK20 ~ BCK100 其搪孔範圍為：20mm ~ 203mm
- 標準刀桿皆有中心出水功能，且為粗搪、精搪共通刀桿
- 粗搪加工配合 ACK 粗搪頭；精搪加工配合 BCK 精搪頭
- 搪頭和刀片為另購品

Model No.	L		L1	Adapter	ACK Cutter No.	L2	BCK Cutter No.	L3	Weight (kg)
	mm	inch							
CAT40 ACK1-060	60	2.36"	40.95	ACK1	ACK19	78.95	BCK20	73.45	0.90
-080	80	3.15"	60.95	ACK1	ACK19	98.95	BCK20	93.45	1.00
ACK2-060	60	2.36"	40.95	ACK2	ACK25	85.95	BCK25	76.45	1.00
-080	80	3.15"	60.95	ACK2	ACK25	105.95	BCK25	96.45	1.00
-100	100	3.94"	80.95	ACK2	ACK25	125.95	BCK25	116.45	1.10
-120	120	4.72"	100.95	ACK2	ACK25	145.95	BCK25	136.45	1.20
ACK3-060	60	2.36"	40.95	ACK3	ACK32	90.95	BCK32	80.95	1.00
-080	80	3.15"	60.95	ACK3	ACK32	110.95	BCK32	100.95	1.00
-100	100	3.94"	80.95	ACK3	ACK32	130.95	BCK32	120.95	1.10
-120	120	4.72"	100.95	ACK3	ACK32	150.95	BCK32	140.95	1.30
ACK4-080	80	3.15"	60.95	ACK4	ACK40	125.95	BCK41	107.95	1.20
-100	100	3.94"	80.95	ACK4	ACK40	145.95	BCK41	127.95	1.40
-125	125	4.92"	105.95	ACK4	ACK40	170.95	BCK41	152.95	1.60
ACK5-080	80	3.15"	60.95	ACK5	ACK52	130.95	BCK53	117.95	1.40
-100	100	3.94"	80.95	ACK5	ACK52	150.95	BCK53	137.95	1.80
-135	135	5.31"	115.95	ACK5	ACK52	185.95	BCK53	172.95	2.30
ACK6-055	55	2.17"	35.95	ACK6	ACK68 ACK90	115.95 125.95	BCK68 BC K100	106.95 106.95	1.20
CAT50 ACK2-090	90	3.54"	70.95	ACK2	ACK25	115.95	BCK25	106.45	3.00
-125	125	4.92"	105.95	ACK2	ACK25	150.95	BCK25	141.45	3.10
ACK3-090	90	3.54"	70.95	ACK3	ACK32	120.95	BCK32	110.95	3.00
-125	125	4.92"	105.95	ACK3	ACK32	155.95	BCK32	145.95	3.30
ACK4-115	115	4.53"	95.95	ACK4	ACK40	160.95	BCK41	142.95	3.50
-175	175	6.89"	155.95	ACK4	ACK40	220.95	BCK41	202.95	3.70
ACK5-090	90	3.54"	70.95	ACK5	ACK52	140.95	BCK53	127.95	3.60
-135	135	5.31"	115.95	ACK5	ACK52	185.95	BCK53	172.95	4.20
-195	195	7.68"	175.95	ACK5	ACK52	245.95	BCK53	232.95	5.30
ACK6-110	110	4.33"	90.95	ACK6	ACK68 ACK90	170.95 180.95	BCK68 BCK100	161.95 161.95	4.10
-170	170	6.69"	150.95	ACK6	ACK68 ACK90	230.95 240.95	BCK68 BCK100	221.95 221.95	5.30
-215	215	8.46"	195.95	ACK6	ACK68 ACK90	275.95 285.95	BCK68 BCK100	266.95 266.95	7.00

Unit: mm



CAT
series

ABJ
NBJ



- ABJ / NBJ modular micro boring system includes 3 types boring range: 1. ABJ10: 6 ~ 25mm
2. ABJ12: 6 ~ 32mm 3. ABJ16 / NBJ16: 6 ~ 50mm

- ABJ / NBJ could use 3 types boring bar: BJ10B, BJ12B and BJ16.

- NBJ16 boring head can match BM1625 series which can extend boring range to 68mm (6 ~ 68mm) for optional. => refer to P.93

- ABJ / NBJ boring head and boring bar must be ordered separately.

- ABJ / NBJ 微調搪孔範圍可分為三種
1. ABJ10: 6 ~ 25mm 2. ABJ12: 6 ~ 32mm
3. ABJ16 / NBJ16: 6 ~ 50mm

- ABJ / NBJ 搪刀分為三種規格：BJ10B，BJ12B 以及 BJ16

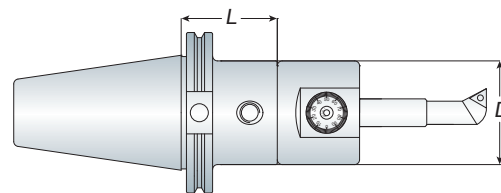
- NBJ16 搪孔刀頭可另選配 BM1625 系列，使其搪孔範圍延展至 68mm (6 ~ 68mm) => 請參考 P.93

- ABJ / NBJ 搪孔刀頭及搪刀為另購品



Modular Micro Boring Holder

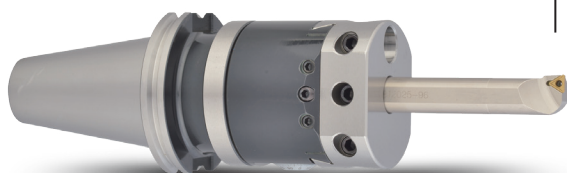
小徑微調搪孔刀桿



Model No.	Micro Boring Head Type	Boring Range	D	L	Weight (kg)
CAT40 ACK4-080	ABJ10	6~25	39	80	1.30
CAT50 ACK4-115				115	3.60
CAT40 ACK5-080	ABJ12	6~32	50	80	1.50
CAT50 ACK5-090				90	3.70
CAT40 NBJ16-055	ABJ16	6~50	64	55	1.40
CAT50 NBJ16-065				65	3.70
CAT40 NBJ16-055	NBJ16	6~50	63	55	1.40
CAT50 NBJ16-065				65	3.70

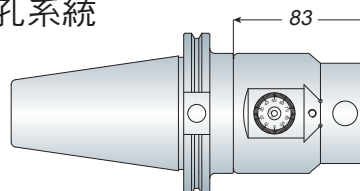
Unit: mm

NBH



NBH2084 Micro Boring System

NBH2084 微調搪孔系統



- NBH2084 micro boring system which boring range is from 8 ~ 280mm.
- NBH2084 tool holder set is attached 3pcs of BJ20 boring bars which are according to your request to choice. => refer to P.94
- NBH2084 微調搪孔系統：搪孔範圍 8 ~ 280mm
- NBH2084 搪孔組均附 3 支搪孔刀桿，其尺寸可依需求選擇 => 請參考 P.94

Model No.	Boring Range	Holder	Weight (kg)
CAT40 NBH2084/SET	8~280	CAT40 NBH2084	7.00
CAT50 NBH2084/SET	8~280	CAT50 NBH2084	9.50

Unit: mm

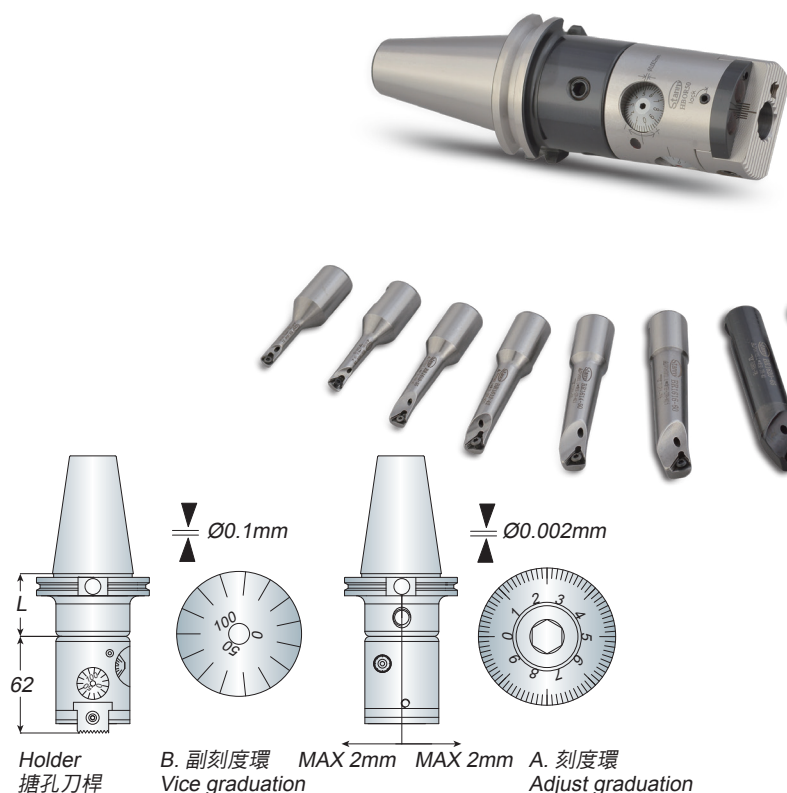
HBOR50 Micro Boring System

HBOR50 微調搪孔系統組

HBOR

CAT

series



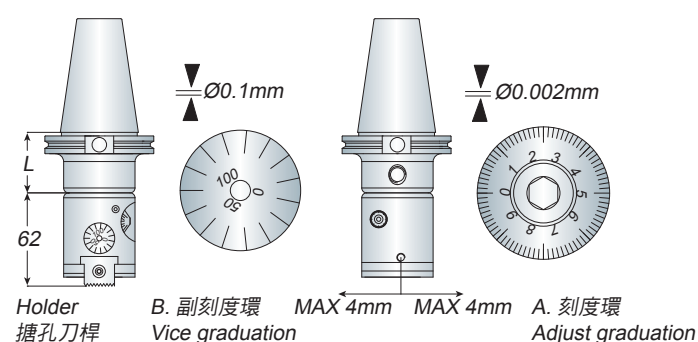
Model No.	Boring Range	Holder	L	Weight (kg)
CAT40 HBOR50/SET	6~90	CAT40 ACK5-050	50	8.50
CAT50 HBOR50/SET	6~90	CAT50 ACK5-065	65	10.40

Unit: mm

- HBOR50 micro boring system which boring range is from 6 ~ 90mm.
- The inside diameter of HBOR50 micro finish boring system is 16mm.
- HBOR50 boring set => refer to P.95
- Insert must be ordered separately.
- HBOR50 微調搪孔系統組：搪孔範圍 6 ~ 90mm
- HBOR50 微調搪孔本體中的內孔為 16mm
- HBOR50 整組規格 => 請參考 P.95
- 刀片為另購品

HBOR63 Micro Boring System

HBOR63 微調搪孔系統組



Model No.	Boring Range	Holder	L	Weight (kg)
CAT40 HBOR63/SET	6~150	CAT40 ACK6-055	55	9.60
CAT50 HBOR63/SET	6~150	CAT50 ACK6-065	65	11.30

Unit: mm

- HBOR63 micro boring system which boring range is from 6 ~ 150mm.
- The inside diameter of HBOR63 micro finish boring system is 16mm.
- HBOR63 boring set => refer to P.96
- HBOR63 boring head can match BM140 series for optional. It can extend boring range to 280mm (6 ~ 280mm). => refer to P.97
- Insert must be ordered separately.
- HBOR63 微調搪孔系統組：搪孔範圍 6 ~ 150mm
- HBOR63 微調搪孔本體中的內孔為 16mm
- HBOR63 整組規格 => 請參考 P.96
- HBOR63 微調搪孔系統組可另選配 BM 系列，使其搪孔範圍延展至 280mm (6 ~280mm) => 請參考 P.97
- 刀片為另購品

CAT
series

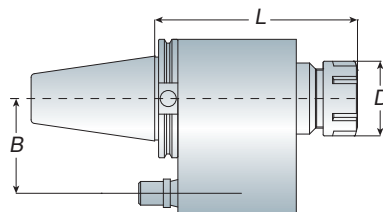
ERO

Oil-Feed Holder

油路刀桿



- ERO oil-feed holder must be used with ER coolant nut and ER coolant collet (refer to P.12).
- When ordering, please specify the B size of oil-feed holder according to your machine.
- Positioning block is necessary and must be ordered separately. => refer to P.100
- ERO 油路刀桿需與止水螺帽與止水筒夾 (可參考 P.12) 一起使用
- 請於訂購時，依據機台規格確認中心距離 (B 的尺寸)
- ERO 刀桿需配合止動塊使用。止動塊為另購品 => 請參考 P.100



Model No.	Clamping Range	D	L	B (中心距)	Collet Type	Weight (kg)
CAT40 ERO32-155	4~20	50	155	60/65	ER32-CL	4.60
ERO40-160	4~26	63	160	60/65	ER40-CL	4.80
CAT50 ERO32-160	4~20	50	160	80/82	ER32-CL	7.10
ERO40-170	4~26	63	170	80/82	ER40-CL	7.50

Unit: mm

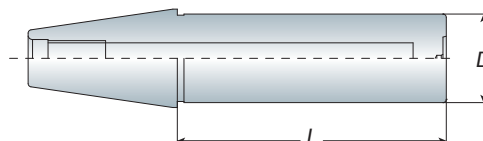
TA

Test Bar

測試棒



- Test arbor is used to measure the runout of machine spindle.
- Taper Contant > 85%
- 測試棒為測量機台主軸精準度用
- 錐度密合度 > 85%



Model No.	D	L	Roundness 真圓度	Concentricity 同心度	Weight (kg)
CAT40 TA40-160	40	160	< 0.003	< 0.005	3.30
-250	40	250			3.70
CAT50 TA40-250	40	250			4.20
-315	40	315			4.50
-350	40	350			4.90
TA63-315	63	315			10.20
-350	63	350			10.90

Unit: mm

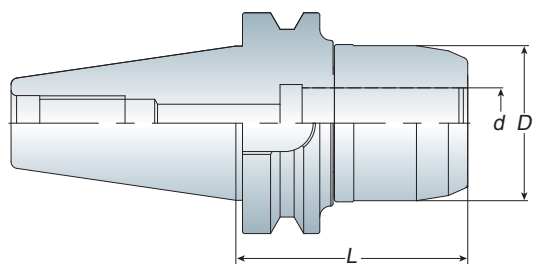
High Speed Milling Chuck

高轉速強力銑刀夾頭刀桿

ASG

ABT

Double-Face-Contact series



Features

- ASG tooling system is suitable for high speed and high precision cutting.
- When using without collet, ASG tooling system is designed for coolant type - THROUGH TOOLS.
- Dust-proof design could extend tool holder lifetime.
- Wrench must be ordered separately.
- Max speed: 30,000 r.p.m G2.5
- ABT-ASG is produced by order.
- ASG 刀具系列適用於高轉速、高精密切削加工，切削效果佳
- 在沒有搭配筒夾的情況下使用，ASG 刀具系列為刀尖給油設計
- 特殊防塵設計，提升刀桿壽命
- ASG 扳手為另購品
- 最高轉速可達 30,000 r.p.m G2.5
- ABT-ASG 為訂單生產品

Model No.	Clamping Range	d	D	L	Collet Type	Weight (kg)
ABT30 ASG12-070	3~12	12	35	70	SC12	1.10
ASG16-080	3~16	16	46	80	SC16	1.10
ASG20-085	4~20	20	54	85	SC20	1.40
ABT40 ASG12-080	3~12	12	35	80	SC12	1.40
ASG16-080	3~16	16	46	80	SC16	1.60
ASG20-080	4~20	20	54	80	SC20	1.80
ASG25-090	6~25	25	58	90	SC25	2.00
ASG32-105	6~32	32	68	105	SC32	2.40
ABT50 ASG12-110	3~12	12	35	110	SC12	4.30
ASG16-110	3~16	16	46	110	SC16	4.70
-150	3~16	16	46	150	SC16	5.20
ASG20-110	4~20	20	54	110	SC20	5.00
-150	4~20	20	54	150	SC20	5.40
ASG25-110	6~25	25	58	110	SC25	5.00
-150	6~25	25	58	150	SC25	5.40
ASG32-110	6~32	32	68	110	SC32	5.10
-150	6~32	32	68	150	SC32	6.40

Unit: mm



P6- Wrench

P6- SC Collet

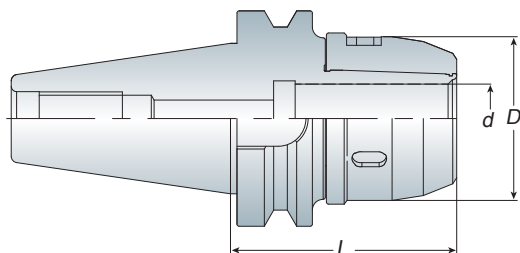


FIG.1



FIG.2



Features

- ASC tooling system is suitable for high speed and high precision cutting.
- When using without collet, ASC tooling system is designed for coolant type - THROUGH TOOLS.
- Dust-proof design could extend tool holder lifetime.
- C-type wrench is attached for each ASC milling chuck.
- Max speed: 30,000 r.p.m G2.5
- ABT-ASC is produced by order.
- ASC 刀具系列用於高轉速、高精密切削加工，切削效果佳
- 在沒有搭配筒夾的情況下使用，ASC 刀具系列為刀尖給油設計
- 特殊防塵設計，提升刀桿壽命
- 每支 ASC 刀桿均附 1 支 C 型扳手
- 最高轉速可達 30,000 r.p.m G2.5
- ABT-ASC 為訂單生產品

Model No.	FIG.	Clamping Range	d	D	L	Collet Type	Weight (kg)
ABT30 ASC16-080	1	3~16	16	46	80	SC16	1.10
ASC20-085	1	4~20	20	53	85	SC20	1.30
ABT40 ASC16-080	1	3~16	16	46	80	SC16	1.60
ASC20-080	1	4~20	20	53	80	SC20	1.80
ASC25-090	2	6~25	25	58	90	SC25	1.90
ASC32-105	2	6~32	32	68	105	SC32	2.80
ABT50 ASC16-110	1	3~16	16	46	110	SC16	4.70
-150	1	3~16	16	46	150	SC16	5.00
ASC20-110	1	4~20	20	53	110	SC20	5.00
-150	1	4~20	20	53	150	SC20	6.00
ASC25-100	2	6~25	25	58	100	SC25	4.60
-150	2	6~25	25	58	150	SC25	5.50
ASC32-105	2	6~32	32	76	105	SC32	5.20
-150	2	6~32	32	76	150	SC32	6.40
ASC42-110	2	6~42	42	84	110	SC42	5.50
-160	2	6~42	42	84	160	SC42	7.60

Unit: mm



P6- Wrench

P6- SC Collet

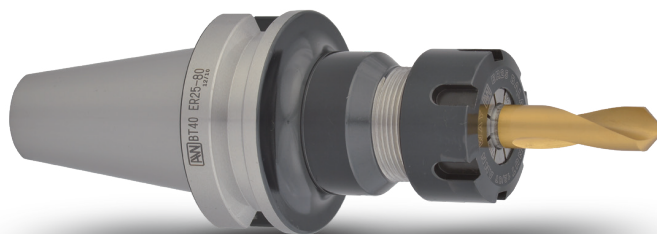
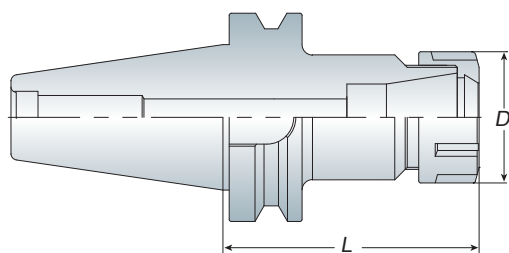
Spring Collet Chuck

彈性筒夾本體

ER

ABT

Double-Face-
Contact series

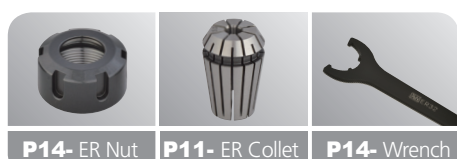


Features

- ER collet chuck with the flexibility that can clamp drill, reamers, end mills and taps.
- ER16 / ER20 / ER25 / ER32 / ER40 are also suitable for ER bearing nut and wrench.
- Wrench must be ordered separately.
- Max speed: 30,000 r.p.m G2.5
- ABT-ER is produced by order.
- ER 筒夾具有彈性，適合夾持鑽頭、鉸刀、銑刀及絲攻刀具
- ER16 / ER20 / ER25 / ER32 / ER40 刀桿可另外選配鋼珠螺帽及扳手
- ER 扳手為另購品
- 最高轉速可達 30,000 r.p.m G2.5
- ABT-ER 為訂單生產品

Model No.	Clamping Range	D	L	Collet Type	Wrench	Weight (kg)
ABT30 ER16-060	1~10	28	60	ER16	WER16	0.60
ER20-060	1~13	34	60	ER20	WER20	0.60
ER25-060	2~16	42	60	ER25	WER25	0.70
ER32-060	2~20	50	60	ER32	WER32	0.75
ABT40 ER16-100	1~10	28	100	ER16	WER16	1.40
ER20-100	1~13	34	100	ER20	WER20	1.50
ER25-100	2~16	42	100	ER25	WER25	1.70
ER32-100	2~20	50	100	ER32	WER32	1.80
ER40-100	3~26	63	100	ER40	WER40	2.20
ABT50 ER16-100	1~10	28	100	ER16	WER16	4.10
-150	1~10	28	150	ER16	WER16	4.30
ER20-100	1~13	34	100	ER20	WER20	4.20
-150	1~13	34	150	ER20	WER20	4.50
ER25-100	2~16	42	100	ER25	WER25	4.20
-150	2~16	42	150	ER25	WER25	4.80
ER32-100	2~20	50	100	ER32	WER32	4.40
-150	2~20	50	150	ER32	WER32	5.20
ER40-100	3~26	63	100	ER40	WER40	4.70
-150	3~26	63	150	ER40	WER40	5.90

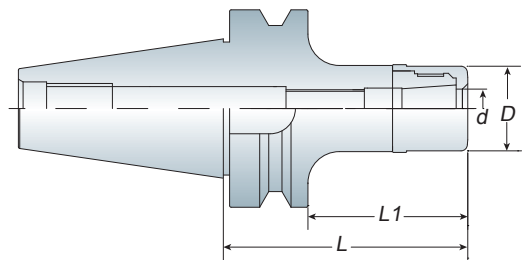
Unit: mm



P14- ER Nut

P11- ER Collet

P14- Wrench



Through tools must use integer collet and coolant nut together. (refer to P.16)

需搭配使用整數筒夾及止水螺帽才有刀尖出水效果 (請參考 P.16)

Features

- ASK tooling systems are suitable for high speed and high precision cutting.
- Special nut design provides better cutting condition and reducing cutting vibration.
- Wrench must be ordered separately.
- ASK collet can be achieve the best cutting condition when using AA grade.
- Max speed: 30,000 r.p.m G2.5
- ABT-ASK is produced by order.
- ASK 系列適用於高轉速、高精密切削加工，切削效果佳
- 螺帽獨特設計可降低高轉速切削時的風阻及噪音並提升工作效能
- 欲達到切削效果佳，可搭配使用 AA 級筒夾
- ASK 扳手為另購品
- 最高轉速可達 30,000 r.p.m G2.5
- ABT-ASK 為訂單生產品

Model No.	Clamping Range (d)	D	L1	L	Weight (kg)
ABT30 ASK10-070	2~10	27	50	70	0.70
ASK13-075	3~13	33	55	75	1.10
ASK16-060	3~16	40	40	60	0.70
ASK20-060	4~20	48	40	60	0.80
ABT40 ASK06-090	2~6	19.05	65	90	1.30
ASK10-080	2~10	27	55	80	1.30
-100	2~10	27	75	100	1.40
ASK13-080	3~13	33	55	80	1.30
-100	3~13	33	75	100	1.50
ASK16-080	3~16	40	55	80	1.50
-100	3~16	40	75	100	1.60
ASK20-090	4~20	48	65	90	1.80
ASK25-070	6~25.4	54	45	70	1.50
-090	6~25.4	54	65	90	1.90
ABT50 ASK10-100	2~10	27	65	100	4.00
-150	2~10	27	115	150	4.20
ASK13-100	3~13	33	65	100	4.50
-150	3~13	33	115	150	4.90
ASK16-100	3~16	40	65	100	4.20
-150	3~16	40	115	150	5.00
ASK20-105	4~20	48	70	105	4.60
-165	4~20	48	130	165	5.60
ASK25-100	6~25.4	54	65	100	4.50
-150	6~25.4	54	115	150	5.30

Unit: mm



P17- SK Collet

P18- Wrench

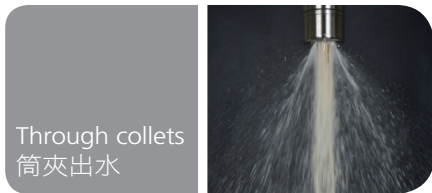
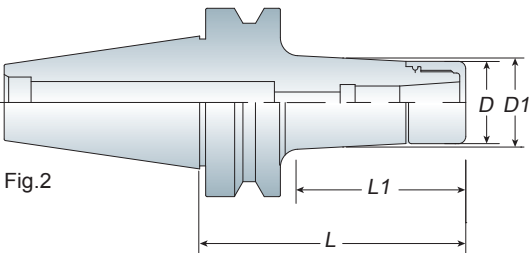
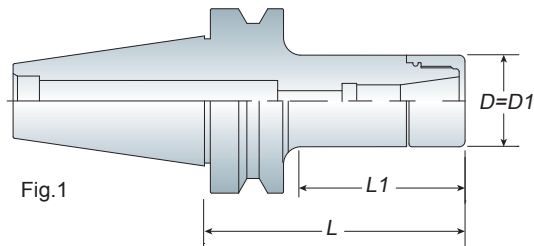
P19- ASK Nut

High Speed Collet Chuck

高轉速高精度立銑刀本體

AVC

ABT
Double-Face-
Contact series



Features

- AVC Long type collet with angle 8° increase clamping force and cutting rigidity and precision.
- Special nut design provides better cutting conditions and reducing cutting vibrations.
- Wrench must be ordered separately.
- Max Speed: 30,000 r.p.m G2.5
- ABT-AVC is produced by order.
- 8° 長筒夾設計提高夾持力，高剛性及高精度
- 刀桿柄壁的增厚設計大幅提升切削剛性
- 螺帽獨特設計可降低高轉速切削時的風阻及噪音並提升工作效能
- AVC 扳手為另購品
- 最高轉速可達 30,000 r.p.m G2.5
- ABT-AVC 為訂單生產品

Model No.	FIG.	Clamping Range	D	D1	L	L1	Weight (kg)
ABT30 AVC06-060	2	2~6	27	29	60	35	0.60
AVC10-060	1	3~10	33	33	60	40	0.70
AVC12-060	1	3~12	40	40	60	37	0.70
ABT40 AVC06-090	2	2~6	27	31	90	60	1.35
AVC10-090	2	3~10	33	40	90	65	1.50
AVC12-090	2	3~12	40	44	90	60	1.60
ABT50 AVC06-105	2	2~6	27	32	105	62	4.10
-165	2	2~6	27	38	165	122	4.50
AVC10-105	2	3~10	33	41	105	70	4.30
-165	2	3~10	33	47	165	130	4.80
AVC12-105	2	3~12	40	44	105	62	4.30
-165	2	3~12	40	51	165	122	5.10

Unit: mm



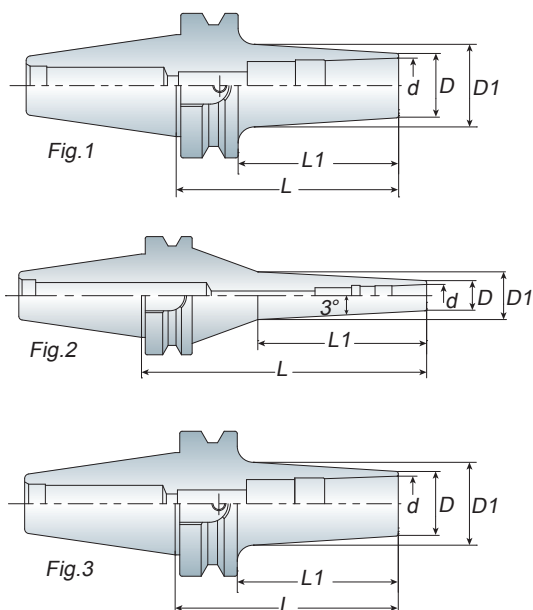
P21- AVC Collet

P21- AVC Nut

P21- Wrench

High Speed Collet Chuck

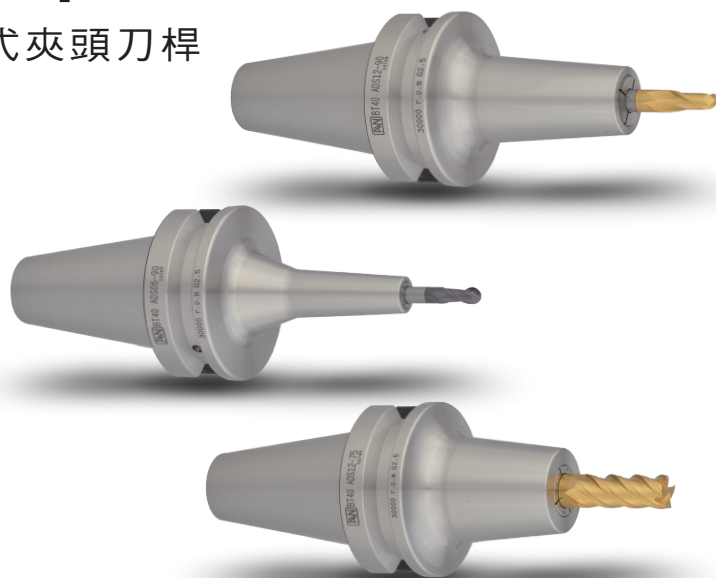
後拉式夾頭刀桿



- ADS06, ADS08: 5mm Hex-Wrench
- ADS12, ADS16: 8mm Hex-Wrench
- ADS06, ADS08 使用 5mm 六角扳手
- ADS12, ADS16 使用 8mm 六角扳手

Features

- ADS tool holder is suitable for high-speed and high precision cutting. Tool holder designed without nut could reduce cutting vibration.
- Wrench is attached for each ADS tool holder.
- Max Speed: 30,000 r.p.m G2.5
- ABT-ADS is produced by order.
- ADS 刀桿適用於高速精密加工。無螺帽設計，降低加工時物件干涉
- 筒夾後拉式設計，操作簡易
- 每支 ADS 刀桿均附 1 支扳手
- 最高轉速可達 30,000 r.p.m G2.5
- ABT-ADS 為訂單生產品

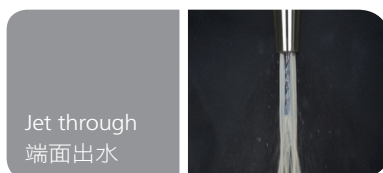


Model No.	FIG.	Clamping Ranged (d)	D	D1	L1	L	Weight (kg)
ABT30 ADS06-060	2	2~6	13	15.5	26	60	0.50
ADS08-060	1	3~8	16	20.5	40	60	0.50
ADS12-080	1	3~12	23	31	60	80	0.65
ABT40 ADS06-090	2	2~6	13	17.5	43	90	1.20
ADS08-090	1	3~8	16	23	60	90	1.20
-120	1	3~8	16	25.5	80	120	1.40
ADS12-090	1	3~12	23	31	65	90	1.30
ADS16-095	1	5~16	28	35	70	95	1.40
ABT50 ADS12-100	1	3~12	23	31	65	100	4.10
-150	1	3~12	23	38.5	115	150	4.40
ADS16-100	1	5~16	28	34.5	65	100	4.00
ABT40 ADS12D-090	3	3~12	30	36.6	65	90	1.80
ADS16D-090	3	5~16	40	46.5	65	90	1.90

Unit: mm



P23-ADS Collet



Jet through
端面出水

- ADS12 / ADS16 CL type upon your request.
For example: ABT40 ADS12-090-CL
- ADS12 / ADS16 另有冷卻液貫穿型可供選擇，請於訂購時於型號後面加 - CL
例：ABT40 ADS12-090-CL

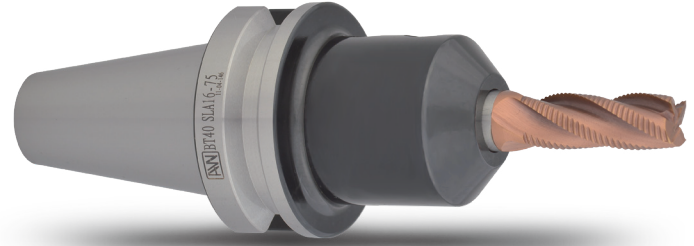
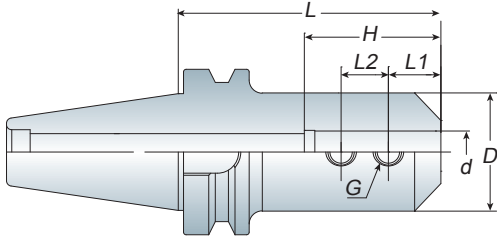
End Mill Holder

側固端銑刀桿

SLA

ABT

Double-Face-Contact series



Features

- For straight shank end mill.
- End mill is held by two set screws.
- End mill holder comes equipped with set screws.
- Max speed: 30,000 r.p.m G2.5
- ABT-SLA is produced by order.
- 適用於夾持直柄銑刀，可用在一般銑削加工
- 夾持銑刀之固定螺絲共 2 個
- 刀桿本身已裝配固定螺絲
- 最高轉速可達 30,000 r.p.m G2.5
- ABT-SLA 為訂單生產品

Model No.	d	D	L	L1	L2	H	G	Weight (kg)
ABT40 SLA06-100	6	25	100	12	10	32	M6	1.30
SLA08-100	8	28	100	14	12	36	M8	1.40
SLA10-100	10	35	100	15	14	40	M10	1.50
SLA12-100	12	40	100	20	16	45	M10	1.65
SLA14-100	14	42	100	18	16	45	M10	1.75
SLA16-100	16	45	100	20	18	50	M10	1.85
SLA20-100	20	50	100	25	20	60	M12	2.00
SLA25-100	25	55	100	25	22	65	M12	2.00
SLA32-090	32	60	90	30	22	70	M16	2.00
SLA40-105	40	80	105	30	22	80	M16	3.10
SLA42-105	42	80	105	35	25	80	M20	3.10
ABT50 SLA06-105	6	25	105	12	10	32	M6	4.10
SLA08-105	8	28	105	14	12	36	M8	4.10
SLA10-105	10	35	105	15	14	40	M10	4.20
SLA12-105	12	40	105	20	16	45	M10	4.35
SLA14-105	14	42	105	18	16	45	M10	4.35
SLA16-105	16	45	105	22	18	50	M10	4.45
SLA20-105	20	50	105	25	20	60	M12	4.50
SLA25-105	25	55	105	25	22	65	M12	4.60
SLA32-105	32	60	105	30	22	70	M16	4.70
SLA40-105	40	80	105	30	22	80	M16	5.40
SLA42-105	42	80	105	35	25	80	M20	5.50
SLA50.8-105	50.8	95	105	35	25	90	M20	6.00

Unit: mm

ABT

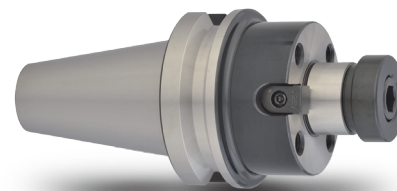
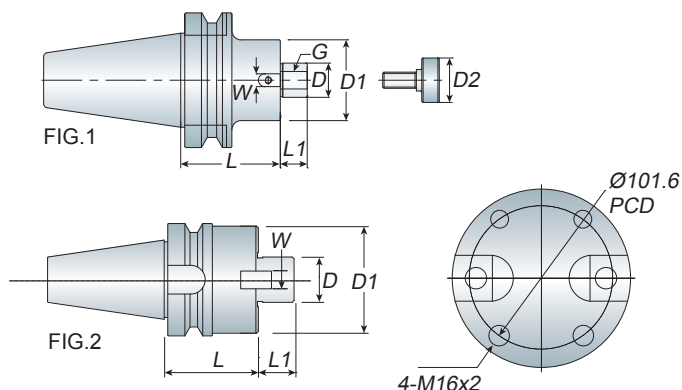
Double-Face-Contact series

FMA

FMB

Face Mill Holder

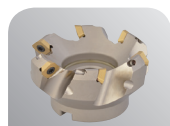
平面銑刀桿



- Face mill holder equips with screw and drive keys to assemble the face mill cutter to the holder.
- Face mill cutter must be ordered separately.
- Max speed: 30,000 r.p.m G2.5
- ABT-FMA/FMB is produced by order.
- 每支 FMB 面銑刀桿均附有螺絲及擋耳以裝配面銑刀盤使用
- 面銑刀盤為另購品
- 最高轉速可達 30,000 r.p.m G2.5
- ABT-FMA/FMB 為訂單生產品

Model No.	FIG.	D	D1	D2	L	L1	W	G	Weight (kg)
ABT30 FMA25.4-045	1	25.4	45	33	45	20	9.5	M12	0.90
FMA31.75-045	1	31.75	58	40	45	22	12.7	M12	1.30
ABT40 FMA25.4-045/060	1	25.4	60	33	45/60	20	9.5	M12	1.70/2.00
FMA31.75-045/060	1	31.75	70	40	45/60	22	12.7	M12	1.80/2.30
FMA38.1-045	1	38.1	85	50	45	23	15.9	M16	2.60
ABT50 FMA25.4-045/105	1	25.4	60	33	45/105	20	9.5	M12	4.20/5.30
FMA31.75-045/105	1	31.75	70	40	45/105	22	12.7	M12	4.40/6.20
FMA38.1-045/075	1	38.1	85	50	45/75	23	15.9	M16	4.50/5.90
FMA50.8-045	1	50.8	95	65	45	24	19.05	M16	5.00
FMA47.625-075	2	47.625	128.57	-	75	32	25.4	-	8.30

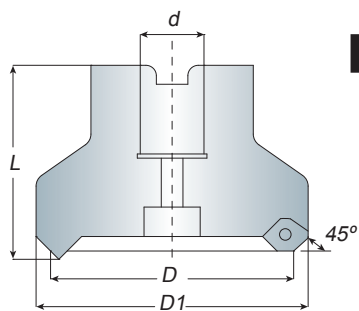
Unit: mm



P174/175-
Face Mill Cutter

Model No.	FIG.	D	D1	D2	L	L1	W	G	Weight (kg)
ABT30 FMB22-045	1	22	56	-	45	18	10	M10	0.80
FMB27-045	1	27	64	32	45	20	12	M12	1.00
ABT40 FMB22-045/060	1	22	48	-	45/60	18	10	M10	1.40/1.60
FMB27-045/060	1	27	60	32	45/60	20	12	M12	1.70/2.00
FMB32-045	1	32	63	41	45	21	14	M16	1.80
FMB40-045/060	1	40	68	47	45/60	23	16	M16	2.00/2.70
ABT50 FMB22-045/105	1	22	48	-	45/105	18	10	M10	4.00/4.80
FMB27-045/105	1	27	65	32	45/105	20	12	M12	4.30/5.80
FMB32-045/105	1	32	73	41	45/105	21	14	M16	4.40/6.60
FMB40-045	1	40	85	47	45	23	16	M16	4.60
FMB60-075	2	60	128.57	-	75	32	25.4	-	7.30

Unit: mm



Face Mill Cutter

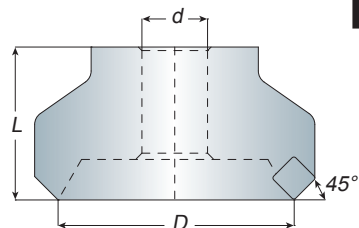
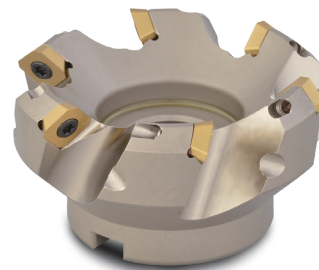
面銑刀盤

SE4R45

Accessories

Model No.	Insert 	d		D	D1	L	Screw 	Wrench 
		mm	inch					
50A-SE4R45-4T	SEHW1204	22	25.4	50	60	45	M4.5x0.75	T20
63A-SE4R45-5T		22	25.4	63	73	45		
80B-SE4R45-6T		27	25.4	80	90	50		
100B-SE4R45-6T		32	31.75	100	110	50		
125B-SE4R45-7/8/9T		40	38.1	125	135	63		
160C-SE4R45-10T		40	50.8	160	170	63		
200C-SE4R45-12T		60	47.625	200	210	63		
250C-SE4R45-14T		60	47.625	250	260	63		

Unit: mm



Face Mill Cutter

面銑刀盤

SE545

Model No.	Insert 	d		D	L	Teeth
		mm	inch			
SE545R0304	SEEN1504	27	25.4	80	50	4
SE545R0405		32	31.75	100	55	5
SE545R0506		40	38.1	125	55	6
SE545R0608		40	50.8	160	60	8
SE545R0810		60	47.625	200	60	10
SE545R1012		60	47.625	250	65	12
SE545R1214		60	47.625	315	65	14
SE545R1416		60	47.625	360	65	16
SE545R0407		32	31.75	100	55	7
SE545R0509		40	38.1	125	55	9
SE545R0611		40	50.8	160	60	11
SE545R0814		60	47.625	200	60	14
SE545R1018		60	47.625	250	65	18
SE545R1222		60	47.625	315	65	22
SE545R1426		60	47.625	360	65	26

Unit: mm

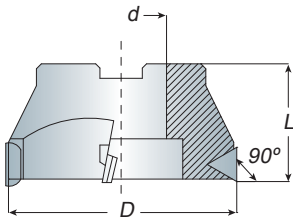
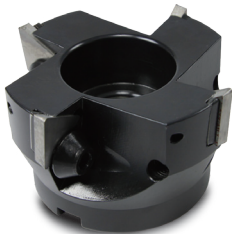


Locator 	Insert Clamp 	Clamp Screw 	Locator Screw 	Washer 	Wrench 
SEL60-10	CP50-7	CS70-1	CS70-2	CS70-3	TW040

TPR

Face Mill Cutter

面銑刀盤



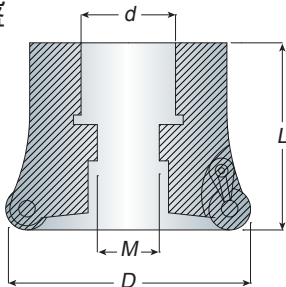
Model No.	Insert 	d	D	L	Teeth	Clamp 	Shim 	Shim Screw 	Key (mm)	Wrench 
TPR-50	TPMN160308	22	50	50	3	Y-TPR4	-	-	4	YA-L5
TPR-63-22		22	63	50	4				5	
TPR-63	TPMN220412	25.4	63	50	3	Y-TPR5	Y-TPR2	Y-TPR1	5	
TPR-63(S)		25.4	63	50	3					
TPR-63-4T	TPMN160308	25.4	63	50	4	Y-TPR4	-	-	4	
TPR-03	TPMN220412	25.4	80	55	4	Y-TPR5	Y-TPR2	Y-TPR1	5	
TPR-03-31.75		31.75	80	55	4					
TPR-04		31.75	100	60	5					
TPR-05		38.1	125	60	6					
TPR-06		50.8	160	60	7					
TPR-08		47.625	200	65	8					
TPR-10		47.625	250	65	9					

Unit: mm

RD

Corner Rounding Cutter

圓刃銑刀盤



Model No.	Insert	Dimension				Teeth	Screw	Clamp	Screw	Wrench
		d	D	M	L					
RD103-D504-22.0	RD..1003..	22	50	11	40	4	MS3509B	MC35141	MS3509A	T15
RD103-D505-22.0		22	50	11	40	5				
RD103-D635-25.4		25.4	63	13	50	5				
RD103-D636-25.4		25.4	63	13	50	6				

Unit: mm



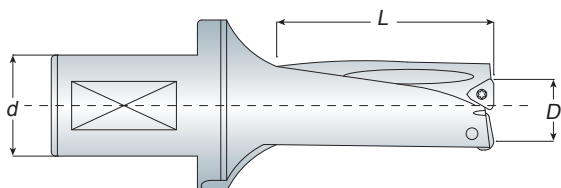
P83 Inserts

Rapid Drills Throw-Away Inserts

Dx2 捨棄式快速鑽頭

WCMX

Accessories



Features

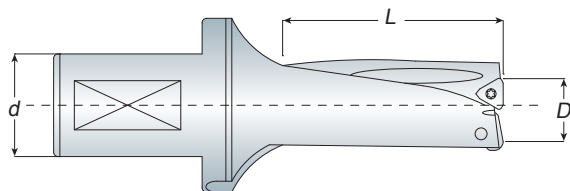
- When ordering 14WCMX ~ 24WCMX, please specify the shank size (d).
- Insert must be ordered separately.
- 訂購 14WCMX ~ 24WCMX 時，請確認柄徑 (d) 規格
- 刀片為另購品

Model No.	Insert	d	D	L (Dx2)	Screw	Wrench	
14WCMX	WCMX030208	25	14	28	M2.5x0.45	T8	
15WCMX			15	30			
16WCMX			16	32			
17WCMX			17	34			
18WCMX			18	36			
19WCMX			19	38			
20WCMX	WCMX040208		20	40			
21WCMX			21	42			
22WCMX			22	44			
23WCMX			23	46			
24WCMX			24	48			
14WCMX	WCMX030208	32	14	28	M2.5x0.45	T8	
15WCMX			15	30			
16WCMX			16	32			
17WCMX			17	34			
18WCMX			18	36			
19WCMX			19	38			
20WCMX	WCMX040208		20	40			
21WCMX			21	42			
22WCMX			22	44			
23WCMX			23	46			
24WCMX			24	48			
25WCMX	WCMT050308		25	50	M3.0x0.5	T10	
26WCMX		26	52				
27WCMX		27	54				
28WCMX		28	56				
29WCMX		29	58				
30WCMX		30	60				
31WCMX	WCMT06T308	31	62	M3.5x0.6	T15		
32WCMX		32	64				
33WCMX		33	66				
34WCMX		34	68				
35WCMX		35	70				
36WCMX		36	72				
37WCMX		37	74				
38WCMX	WCMT06T308	40	38	76	M3.5x0.6	T15	
39WCMX			39	78			
40WCMX			40	80			
41WCMX			41	82			
42WCMX			42	84			
43WCMX	WCMT080412		43	86	M4.0x0.7		
44WCMX			44	88			
45WCMX			45	90			
46WCMX			46	92			
47WCMX			47	94			
48WCMX			48	96			
49WCMX			49	98			
50WCMX		50	100				
51WCMX		51	102				
52WCMX		52	104				
53WCMX		53	106				
54WCMX		54	108				
55WCMX	WCMT06T308		55	110	M3.5x0.6		
56WCMX			56	112			
57WCMX			57	114			
58WCMX			58	116			
59WCMX			59	118			
60WCMX			60	120			
61WCMX			61	122			
62WCMX			62	124			
63WCMX			63	126			
64WCMX			64	128			

Unit: mm

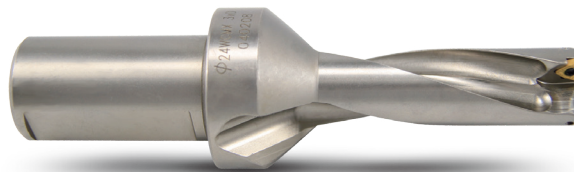
Rapid Drills Throw-Away Inserts

Dx3 捨棄式快速鑽頭



Features

- When ordering 14WCMX ~ 24WCMX, please specify the shank size (d).
- Insert must be ordered separately.
- 訂購 14WCMX ~ 24WCMX 時，請確認柄徑 (d) 規格
- 刀片為另購品

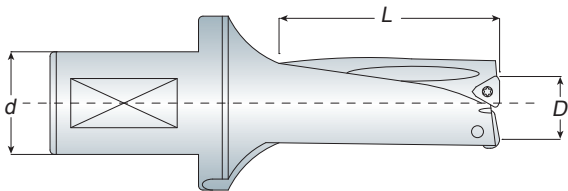


Model No.	Insert	d	D	L (Dx3)	Screw	Wrench		
14WCMX	WCMX030208	25	14	42	M2.5x0.45	T8		
15WCMX			15	45				
16WCMX			16	48				
17WCMX			17	51				
18WCMX			18	54				
19WCMX	19		57					
20WCMX	WCMX040208		20	60				
21WCMX			21	63				
22WCMX			22	66				
23WCMX			23	69				
24WCMX		24	72					
14WCMX	WCMX030208	32	14	42	M2.5x0.45	T8		
15WCMX			15	45				
16WCMX			16	48				
17WCMX			17	51				
18WCMX			18	54				
19WCMX	19		57					
20WCMX	WCMX040208		20	60				
21WCMX			21	63				
22WCMX			22	66				
23WCMX			23	69				
24WCMX		24	72					
25WCMX	WCMT050308	25	75	M3.0x0.5	T10			
26WCMX		26	78					
27WCMX		27	81					
28WCMX		28	84					
29WCMX		29	87					
30WCMX		30	90					
31WCMX	WCMT06T308	31	93	M3.5x0.6	T15			
32WCMX		32	96					
33WCMX		33	99					
34WCMX		34	102					
35WCMX		35	105					
36WCMX		36	108					
37WCMX		37	111					
38WCMX	WCMT06T308	40	38	114	M3.5x0.6	T15		
39WCMX			39	117				
40WCMX			40	120				
41WCMX			41	123				
42WCMX			42	126				
43WCMX	WCMT080412		43	129	M4.0x0.7			
44WCMX			44	132				
45WCMX			45	135				
46WCMX			46	138				
47WCMX			47	141				
48WCMX		48	144					
49WCMX		49	147					
50WCMX		50	150					
51WCMX		51	153					
52WCMX		52	156					
53WCMX		53	159					
54WCMX		54	162					
55WCMX	WCMT06T308	55	165	M3.5x0.6				
56WCMX		56	168					
57WCMX		57	171					
58WCMX		58	174					
59WCMX		59	177					
60WCMX		60	180					
61WCMX		61	183					
62WCMX		62	186					
63WCMX		63	189					
64WCMX		64	192					

Unit: mm

Rapid Drills Throw-Away Inserts

Dx4 捨棄式快速鑽頭

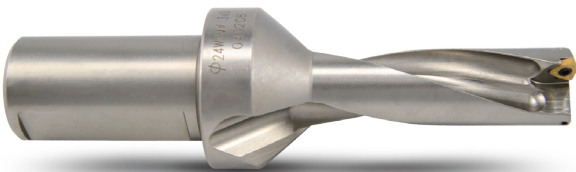


Model No.	Insert	d	D	L (Dx4)	Screw	Wrench		
14WCMX	WCMX030208	32	14	56	M2.5x0.45	T8		
16WCMX			16	64				
19WCMX			19	76				
20WCMX	WCMX040208		20	80			M3.0x0.5	T10
21WCMX			21	84				
22WCMX			22	88				
23WCMX			23	92				
24WCMX			24	96				
25WCMX	WCMT050308		25	100	M3.5x0.6	T15		
26WCMX			26	104				
27WCMX			27	108				
28WCMX			28	112				
29WCMX			29	116				
34WCMX	WCMT06T308		34	136	M3.5x0.6	T15		
39WCMX	WCMT06T308		40	39	156	M3.5x0.6	T15	
41WCMX				41	164			
43WCMX	WCMT080412			43	172	M4.0x0.7		
44WCMX				44	176			
47WCMX				47	188			
50WCMX				50	200			
54WCMX				54	216			
59WCMX	WCMT06T308			59	236	M3.5x0.6		

Unit: mm

WCMX

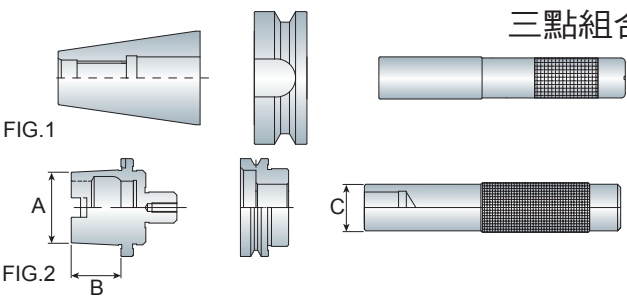
Accessories



- Insert must be ordered separately.
- 刀片為另購品

Modular Concentricity Test Gauge

三點組合模具



Model No.	FIG.	Taper Shank	A	B	C	Weight (kg)
BT30 A.T.C.	1	MAS403-BT	-	-	-	0.60
BT40 A.T.C.			-	-	-	1.30
BT50 A.T.C.			-	-	-	4.30
SK30 A.T.C.	1	SK-DIN69871A	-	-	-	0.60
SK40 A.T.C.			-	-	-	1.10
SK50 A.T.C.			-	-	-	3.40
CAT30 A.T.C.	1	CAT	-	-	-	0.60
CAT40 A.T.C.			-	-	-	1.10
CAT50 A.T.C.			-	-	-	3.40
HSK50A A.T.C.	2	HSK	50	25	25	1.10
HSK63A A.T.C.			63	32	30	1.70
HSK100A A.T.C.			100	50	40	4.70

Unit: mm

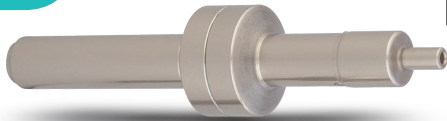
A.T.C.



- Use for test the A.T.C. device of machine center.

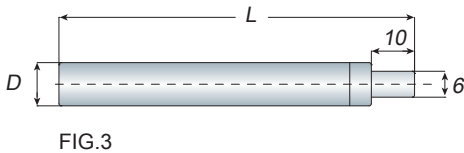
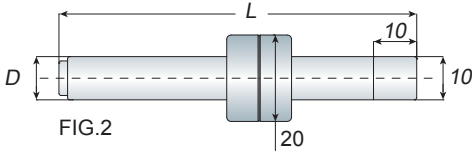
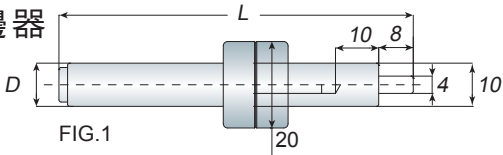
Accessories

EDGE
FINDER



Mechanical Type

機械式尋邊器

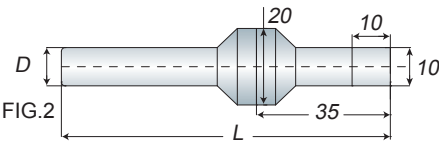
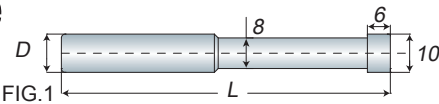


Model No.	FIG.	D	L	Weight (kg)
PM10-FIG.1	1	10	90	0.10
PM10-FIG.2	2	10	82.8	0.10
ME-610	3	10	65	0.05

Unit: mm

Ceramic Type

陶瓷尋邊器

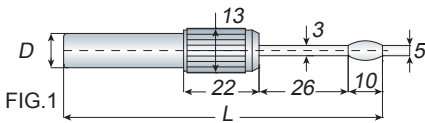


Model No.	FIG.	D	L	Weight (kg)
WH-1010	1	10	86	0.05
WH-1020	2	10	83	0.10

Unit: mm

Rotary Type

迴轉式尋邊器



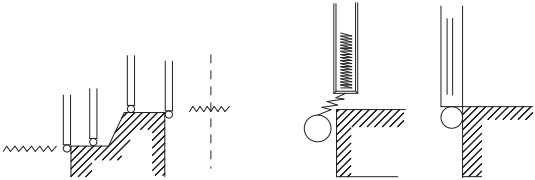
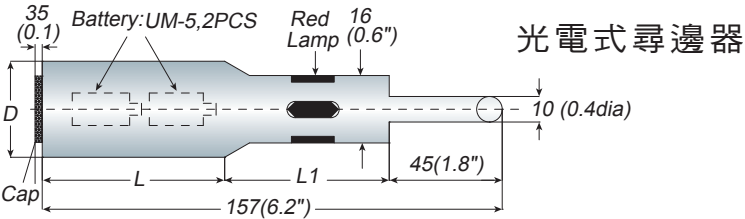
Model No.	FIG.	D	L	Weight (kg)
ME-P1	1	10	93	0.05
ME-P2	2	10	144	0.10
ME-P1+P2	-	-	-	0.15

Unit: mm

- Nonmagnetic and made of ceramic.
- 具有不導磁之特性並使用全陶瓷之材質

- The edge finder has made rust prevention processing.
- 迴轉式尋邊器已做特殊防鏽處理

High Sensitive Electronic Edge Finder



- Easy location of work face, O.D./I.D
- Spring-retained sensor ball protects the unit against over-run.

Model No.	D	L	L1	Weight (kg)
PM20	20	77	35	0.35
PM32	32	71	41	0.70
PM3/4"	19.05 (3/4")	77	35	0.35
PM1-1/4"	31.75 (1-1/4")	71	41	0.70

Unit: mm

PM

Accessories



- High sensitive edge sensor with red LED lamp and beep sound.
- Instant indication by red LED lamp at very light contact of sensor ball with workpiece.

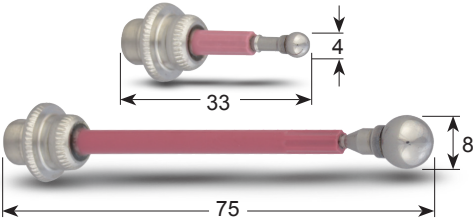
Sensor-Haimer

萬向尋邊器

Model No.	Code No. (HAIMER)	Accuracy	Weight (kg)
3D Sensor (3D 尋邊器)	80.360.00	0.01mm	1.00
3D Short Needle (3D 短針)	80.362.00	-	0.01
3D Long Needle (3D 長針)	80.363.00	-	0.02

Unit: mm

3D



Z-ZERO

Setter
Z 軸測定器



Fig.1



Fig.2



Fig.3



Fig.4

- Easy, quick and simple for setting tool length on the machine center.
- Base with magnetic.
- SM100 can be used in vertical and horizontal position.
- 在電腦銑床上設定刀長用
- 底座具有磁性
- SM100 可立臥兩用

Model No.	FIG.	Setting High	Weight (kg)
ZIP50A	1	50mm+-0.005	1.30
ASM50	2	50mm+-0.005	1.30
ZAP50	3	50mm+-0.005	1.00
ZM50A	4	50mm+-0.005 (Magnetism/ 有磁性)	1.00
ZM50B	4	50mm+-0.005 (No Magnetism/ 無磁性)	1.00

Unit: mm



Fig.1



Fig.2

Model No.	FIG.	Setting High	Weight (kg)
ASM100	1	100mm+-0.005	1.80
SM100	2	100mm+-0.005	2.50

Unit: mm

Tool Stand

刀具架

Model No.	Shank Size	Tool Capacity
#30 TOOL STAND-FIG.1	BT/NT/SK/CAT30	64PCS
#40 TOOL STAND-FIG.1	BT/NT/SK/CAT40	56PCS
#50 TOOL STAND-FIG.1	BT/NT/SK/CAT50	48PCS
#30 TOOL STAND-FIG.2	BT/NT/SK/CAT30	128PCS
#40 TOOL STAND-FIG.2	BT/NT/SK/CAT40	112PCS
#50 TOOL STAND-FIG.2	BT/NT/SK/CAT50	96PCS

Unit: mm

Accessories

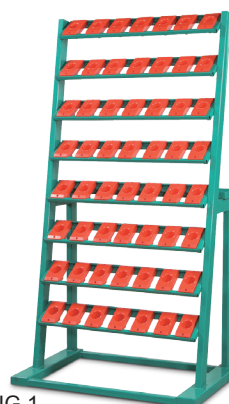


FIG.1



FIG.2

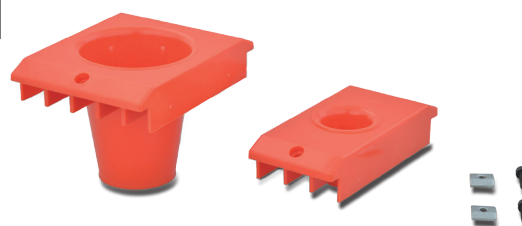
- HSK Shank size as your special enquiry.
- Tool stand provides economical and convenient way to store your tool holders.
- The tool sheath can be replaced.

Tool Sheath

刀具盒

Model No.	Shank Size	Size (mm)	Weight (kg)
#30 TOOL SHEATH	BT/NT/SK/CAT30	64Wx137Dx48H	0.15
#40 TOOL SHEATH	BT/NT/SK/CAT40	74Wx137Dx63H	0.15
#50 TOOL SHEATH	BT/NT/SK/CAT50	104Wx137Dx93H	0.15

Unit: mm



Tool Trolley

刀具車

Model No.	Shank Size	Tool Capacity	Drawer	Weight (kg)
#30 TOOL TROLLEY-FIG.1	BT/NT/SK/CAT30	32 PCS	x	39.00
#40 TOOL TROLLEY-FIG.1	BT/NT/SK/CAT40	28 PCS	x	39.00
#50 TOOL TROLLEY-FIG.1	BT/NT/SK/CAT50	20 PCS	x	39.00
HSK63A TOOL TROLLEY-FIG.1	HSK63A	24 PCS	x	39.00
#30 TOOL TROLLEY-FIG.2	BT/NT/SK/CAT30	32 PCS	2 SETS	64.00
#40 TOOL TROLLEY-FIG.2	BT/NT/SK/CAT40	28 PCS	2 SETS	64.00
#50 TOOL TROLLEY-FIG.2	BT/NT/SK/CAT50	20 PCS	2 SETS	64.00
HSK63A TOOL TROLLEY-FIG.2	HSK63A	24 PCS	2 SETS	64.00

Unit: mm

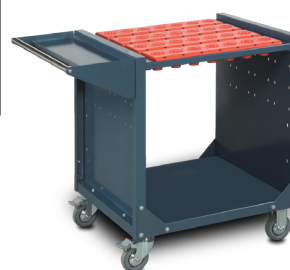


FIG.1



FIG.2

- Easy to move and provides convenient way to store your tool holder and any accessories.
- The tool sheath can be replaced.

Accessories



- To be used for fixing the tools on the tool holder.
- Horizontal or vertical locking device selection is for quick and simple operations.



FIG.1

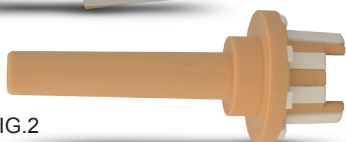


FIG.2

- Made of plastic and wool.
- The spindle taper wiper can quick-clean machine spindle.



- 適用於各型機械工作台面 T 型槽之規格，專為模具、治具板等固定使用

- 24pcs Stud. Each Size with 4pcs:
3", 4", 5", 6", 7", 8"

- 6pcs Table Slot (T-slot)

- 6pcs Flanged Nuts

- 4pcs Coupling Nuts

- 6pcs Step Clamps

- 6pcs Step Blocks

- 英制螺絲桿規格長度分別有
3", 4", 5", 6", 7", 8" 各 4 支

- 6 個 T 型螺帽

- 6 個法蘭螺帽

- 4 個接頭螺帽

- 6 個齒型壓版

- 6 個齒型墊版

Tool Locking Device

立臥兩用鎖刀座

Model No.	Taper Shank	Weight (kg)
BT30 鎖刀座 (BT30-100-000)	MAS403-BT	4.10
BT40 鎖刀座 (BT40-100-001)		4.20
BT50 鎖刀座 (BT50-100-003)		8.90
SK30 鎖刀座 (SK30-100-000)	SK-DIN69871A	4.10
SK40 鎖刀座 (SK40-100-001)		4.20
SK50 鎖刀座 (SK50-100-003)		8.90
CAT30 鎖刀座 (CAT30-100-000)	CAT	4.10
CAT40 鎖刀座 (CAT40-100-001)		4.20
CAT50 鎖刀座 (CAT50-100-003)		8.90

Unit: mm

Spindle Taper Wipers

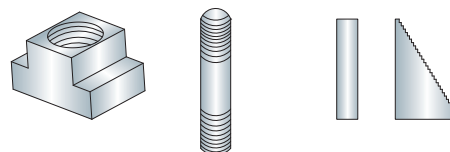
主軸清潔棒

Model No.	FIG.	Taper No.	Weight (kg)
CA-30	1	#30	0.15
CA-40		#40	0.15
CA-50		#50	0.25
CA-HSK40A+C+E	2	HSK40A+C+E	0.20
CA-HSK50A+C+E		HSK50A+C+E	0.20
CA-HSK63A+C+E		HSK63A+C+E	0.20
CA-HSK100A+C+E		HSK100A+C+E	0.75

Unit: mm

CK 52PCS Clamping Kit

萬能夾具組

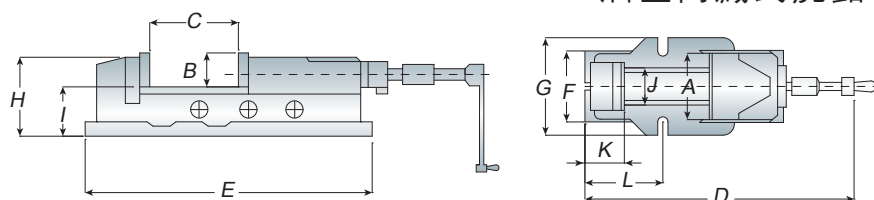


Model No.	T-slot	Stud Size	Step Block Width	Weight (kg)
CK-103A	7/16	3/8"-16	1"	7.00
CK-103B	1/2		(STB14, STB24, STB34)"	7.00
CK-103C	9/16			7.00
CK-104A	9/16	1/2"-12	1" or 1-1/4"	10.50
CK-104B	5/8	or	(STB14, STB24, STB34)	10.50
CK-104C	9/16	1/2"-13	or (STB15, STB25, STB35)	10.50
CK-105A	11/16	5/8"-11	1" or 1-1/4"	12.50
CK-105B	3/4		(STB14, STB24, STB34)	12.50
CK-105C	13/16		or (STB15, STB25, STB35)	12.50
CK-08	10	M8x1.25P	1" (STB14, STB24, STB34)	7.30
CK-10	12	M10x1.50P	1" (STB14, STB24, STB34)	8.00
CK-12A	14	M12x1.75P	1" (STB14, STB24, STB34)	10.00
CK-12B	16			10.00
CK-14	16	M14x2.0P	1" (STB14, STB24, STB34)	11.50
CK-16	18	M16x2.0P	1" (STB14, STB24, STB34)	13.00
CK-18	20	M18x2.5P	1-1/2"	25.70
CK-20	22	M20x2.5P	1-1/2"	27.70

Unit: mm

Hydraulic Machine Vise

油壓內藏式虎鉗

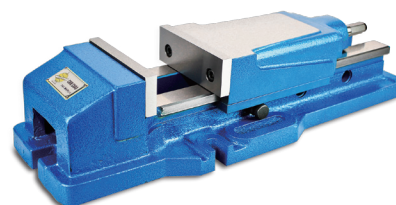


Model No.	A	B	C	D	E	F	G	H	I	J	K	L	Weight (kg)
HP-4"	100	36	170	525	430	130	160	94	60	78	100	155	25
HP-5"	125	46	220	670	540	135	185	118	72	97	117	185	45
HP-6"	150	51	300	800	620	200	240	133	82	116	125	247	65
HP-8"	200	62	300	900	700	240	280	162	100	160	165	266	119

Unit: mm

HP

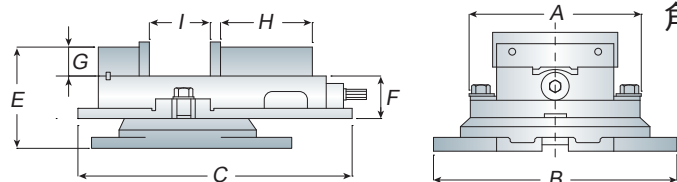
Accessories



- Quick of clamping, locking and easy to operate.
- When ordering, please advice the vise with swivel base (W) or without swivel base(W/O).
- 請於訂購時，確認虎鉗為有底 (W) 或無底 (W/O)

Precision Angle Lock Machine Vise

角固式虎鉗



Model No.	A	B	C	E	F	G	H	I	Weight (kg)
SAV-4"	100	220	320	133	65	38	115	110	23
SAV-5"	125	240	360	146	70	38	132	130	30
SAV-6"	150	290	430	161	72	48	170	150	45
SAV-8"	200	370	600	193	85	58	190	210	85

Unit: mm

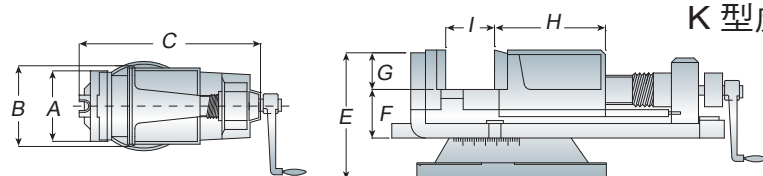
SAV



- Quick of clamping, locking and easy to operate.
- When ordering, please advice the vise with swivel base (W) or without swivel base(W/O).
- 請於訂購時，確認虎鉗為有底 (W) 或無底 (W/O)

K-type Machine Vise

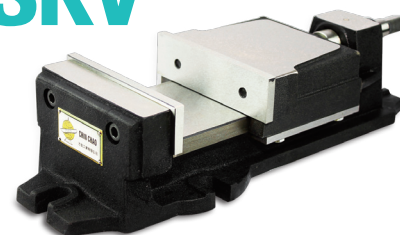
K 型虎鉗



Model No.	A	B	C	E	F	G	H	I	Weight (kg)
SKV-4"	100	120	95	81	55	38	90	62	12
SKV-5"	125	160	380	135	60	40	115	80	16
SKV-6"	150	190	460	150	65	43	135	115	28
SKV-8"	200	240	620	185	85	60	190	150	56

Unit: mm

SKV

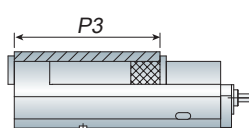
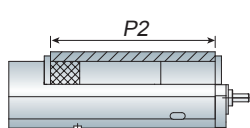
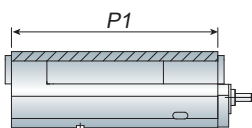
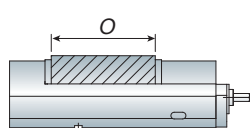
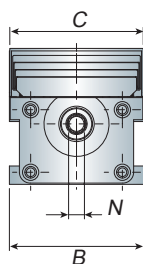
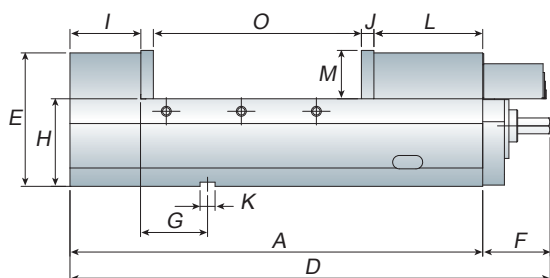


- Quick of clamping, locking and easy to operate.
- When ordering, please advice the vise with swivel base (W) or without swivel base(W/O).
- 請於訂購時，確認虎鉗為有底 (W) 或無底 (W/O)

CNC Precision Fixed Angle Vise

角固式精密虎鉗

提供您選擇四種不同夾持方式(外側鉗口為特殊附件)



Features

- Welllock MC Machine Vise is most suitable for VMC & HMC.
- Welllock Semi-spherical segment eliminate deflection and lift.
- Rigid and tensile ductile iron FCD-60 (80,000PSI) vise body. Slide surface flame hardened to HS65° to maintain the accuracy. S50C jaw-plate has been Carburizing heat treated the hardness to HRC54°.
- 4 different clamping positions.
- Unique design facilitates the evacuation of chips.
- 角固式精密虎鉗，適用於立 / 臥式綜合銑切削加工中心機上使用
- 角固式半圓球可產生角固下鎖之力，可消除鉗口板上浮和工件傾斜
- 虎鉗本台使用強而有力的球狀石墨鑄鐵 FCD-60 (80,000PSI) 抗張力強，不易變形；本台滑動面均經高週波硬化熱處理 HS65°以上，強化滑動面的耐磨性與精度；鉗口均採用 S50C 材質，再經滲碳熱處理使其硬度達 HRC54°以上
- 虎鉗擁有四種不同的夾持開口應用位置來供客戶選擇
- 獨特防屑與排屑設計，防止鐵屑進入虎鉗內部並且容易排出虎鉗內部，延長使用期限

Dimensions for 4 Jaw Plate Positions

Model No.	A	B	C	D	E	F	G	H	I	J
AVC-130G	455	131	130	545	147	90	55	95	70	15
AVC-160G	560	161	160	675	160	115	65	105	85	15
AVC-200G	580	201	200	708	170	128	85	110	90	18
AVC-130HV	455	131	130	545	147	90	55	95	70	15
AVC-160HV	560	161	160	675	160	115	65	105	85	15
AVC-200HV	580	201	200	708	170	128	85	110	90	18

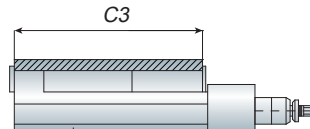
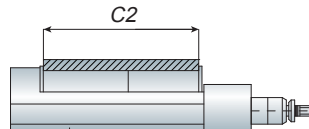
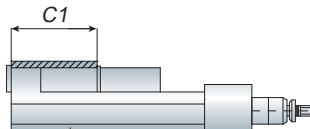
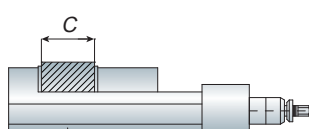
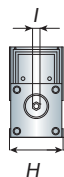
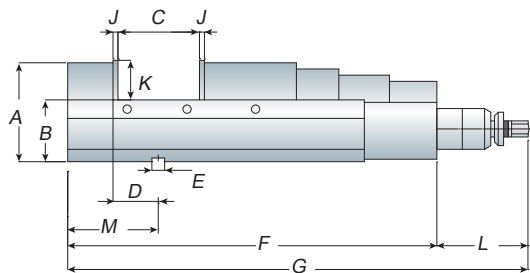
Unit: mm

Model No.	K	L	M	N	O	P1	P2	P3	Weight (kg)
AVC-130G	18	115	55	19	230	180~430	180~340	180~290	48
AVC-160G	18	130	58	19	250	240~545	240~435	240~395	68
AVC-200G	18	150	63	19	290	290~550	290~430	290~370	75
AVC-130HV	18	115	55	19	230	180~430	180~340	180~290	48
AVC-160HV	18	130	58	19	250	240~545	240~435	240~395	68
AVC-200HV	18	150	63	19	290	290~550	290~430	290~370	75

Unit: mm

Multi-Power CNC Precision Fixed Angle Vise

多功能角固式精密倍力增壓虎鉗



HPAC

Accessories



Dimensions for 4 Jaw Plate Positions

Model No.	A	B	C	C1	C2	C3	D	E	F
HPAC-130	147	95±0.01	0~190	70~260	115~305	185~375	80±0.02	18	475
HPAC-160	160	105±0.01	0~240	85~325	140~375	220~460	80±0.02	18	560
HPAC-200	170	110±0.01	0~285	90~380	155~440	240~530	100±0.02	18	635

Unit: mm

- Extremely high accuracy
- Adjustable clamping force: 0 ~ 8000KGS

Model No.	Max. Clamping Force	G	H	I	J	K	L	M	Weight (kg)
HPAC-130	6000kg	583	131	19	15	55	120	150	55
HPAC-160	8000kg	670	161	19	15	58	120	165	75
HPAC-200	8000kg	743	201	19	18	63	120	197	102

Unit: mm

Artistic Drill Re-Sharpening Machine

鑽頭研磨機



Model No.	Grinding Range	Front End Angle	Power Supply	Motor Speed	Dimension	Weight (kg)
YD-313	Ø2~13	90°~145°	AC-110/220	5000RPM	37x30x20cm	10
YD-1226	Ø12~26	90°~145°	AC-110/220	3600RPM	43x30x25cm	22
YD-0832	Ø8~32	90°~145°	AC-110/220	3600RPM	45x30x25cm	26

Unit: mm

- Only three steps.
- Using a taper diamond wheel for grinding, no need for re-trim.
- Fast and accurate sharpening.
- 鑽頭一次夾持，可將鑽刃鋒、鑽腹、餘隙角（後斜角）中心靜點，精準地一次研磨完成
- 鑽頭研磨操作容易又安全，無危險性

Tool Presetter

刀具預調儀



型號 /Model No.		AW-HB300
量測範圍 /Range of Measurement	直徑 (X): 300mm	高度 (Y): 30~300mm
數顯解析度 -X 值 /Resolution-X Axis	0.005mm	
數顯解析度 -Y 值 /Resolution-Y Axis	0.005mm	
主軸錐度 /Taper Shank	標準 Standard: #50	選配 Optional: #40,#30
電源 /Power Supply	AC 110V/220V	50HZ/60HZ
尺寸 /Dimension (mm)	860Lx560Wx900H	
重量 /Weight	N.W. 102kgs / G.W. 137kgs	
標準配件 Standard Accessories	顯示器 /Readout Device	Digital Readout (光學尺)
	校正棒 /Test Bar	BT50 Dia: 40mm L: 200mm
	百分錶 /Dial Gauge	2PCS



型號 /Model No.		AW-H300
量測範圍 /Range of Measurement	直徑 (X): 300mm	高度 (Y): 30~400mm
數顯解析度 -X 值 /Resolution-X Axis	0.005mm	
數顯解析度 -Y 值 /Resolution-Y Axis	0.005mm	
主軸錐度 /Taper Shank	標準 Standard: #50	選配 Optional: #40,#30
電源 /Power Supply	AC 110V/220V	50HZ/60HZ
尺寸 /Dimension (mm)	860Lx560Wx950H	
重量 /Weight	N.W. 105kgs / G.W. 140kgs	
標準配件 Standard Accessories	顯示器 /Readout Device	Digital Readout (光學尺)
	校正棒 /Test Bar	BT50 Dia: 40mm L: 200mm
	百分錶 /Dial Gauge	2PCS



型號 /Model No.		AW-XZ400
量測範圍 /Range of Measurement	直徑 (X): 400mm	高度 (Y): 30~400mm
數顯解析度 -X 值 /Resolution-X Axis	0.005mm	
數顯解析度 -Y 值 /Resolution-Y Axis	0.005mm	
主軸錐度 /Taper Shank	標準 Standard: #50	選配 Optional: #40,#30
電源 /Power Supply	AC 110V/220V	50HZ/60HZ
尺寸 /Dimension (mm)	930Lx600Wx950H	
重量 /Weight	N.W. 108kgs / G.W. 153kgs	
標準配件 Standard Accessories	顯示器 /Readout Device	Digital Readout (光學尺)
	校正棒 /Test Bar	BT50 Dia: 40mm L: 200mm
	百分錶 /Dial Gauge	2PCS

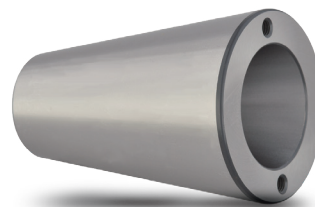
Sleeve

轉換套筒

Accessories

Model No.	Description
BT50-TA40	Spindle taper #50 to #40
-TA30	Spindle taper #50 to #30

Model No.	Description
BT40-TA30	Spindle taper #40 to #30



Cabinet

儲存櫃

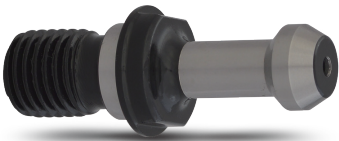
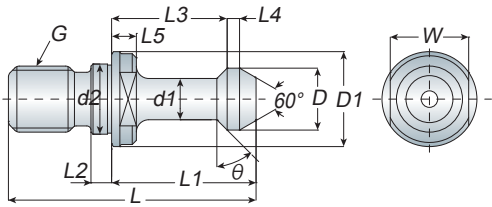
Model No.	Cabinet
長 x 寬 x 高	760Lx500Wx680H mm
適用刀具預調儀 /Suit for	AW-HB300/AW-H300/AW-XZ400
重量	55kgs



組合示意圖

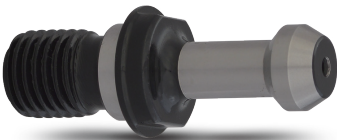
MAS403
- BT

Pull Stud
拉桿 / 拉頭



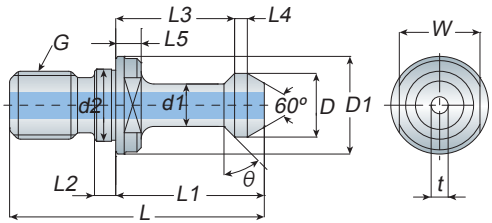
Model No.	L	L1	L2	L3	L4	L5	D	D1	d1	d2	W	G	θ	Weight (kg)
BT30 30	43	23	4	18	2.5	5	11	16.5	7	12.5	13	M12	30	0.04
BT30 45	43	23	4	18	2.5	5	11	16.5	7	12.5	13	M12	45	0.04
BT30 60	43	23	4	18	2.5	5	11	16.5	7	12.5	13	M12	60	0.04
BT40 30	60	35	5	28	3	6	15	23	10	17	19	M16	30	0.08
BT40 45	60	35	5	28	3	6	15	23	10	17	19	M16	45	0.08
BT40 60	60	35	5	28	3	6	15	23	10	17	19	M16	60	0.08
BT40 90	60	35	5	28	3	6	15	23	10	17	19	M16	90	0.08
BT50 30	85	45	8	35	5	10	23	38	17	25	30	M24	30	0.30
BT50 45	85	45	8	35	5	10	23	38	17	25	30	M24	45	0.30
BT50 60	85	45	8	35	5	10	23	38	17	25	30	M24	60	0.30
BT50 90	71	31	8	23	5	10	24	36	18	25	30	M24	90	0.30
BT50 90L	85	45	8	35	5	10	23	38	17	25	30	M24	90	0.30

Unit: mm



Pull Stud - Coolant Type

中心出水

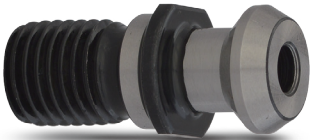
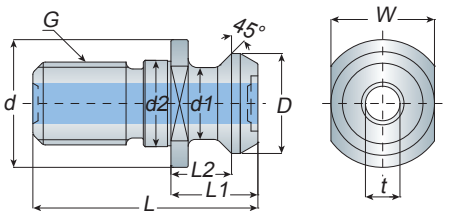


Model No.	L	L1	L2	L3	L4	L5	D	D1	d1	d2	W	G	t	θ	Weight (kg)
BT30 30-COOLANT	43	23	4	18	2.5	5	11	16.5	7	12.5	13	M12	2.5	30	0.03
BT30 45-COOLANT	43	23	4	18	2.5	5	11	16.5	7	12.5	13	M12	2.5	45	0.03
BT30 60-COOLANT	43	23	4	18	2.5	5	11	16.5	7	12.5	13	M12	2.5	60	0.03
BT40 30-COOLANT	60	35	5	28	3	6	15	23	10	17	19	M16	4	30	0.07
BT40 45-COOLANT	60	35	5	28	3	6	15	23	10	17	19	M16	4	45	0.07
BT40 60-COOLANT	60	35	5	28	3	6	15	23	10	17	19	M16	4	60	0.07
BT40 90-COOLANT	60	35	5	28	3	6	15	23	10	17	19	M16	4	90	0.07
BT50 30-COOLANT	85	45	8	35	5	10	23	38	17	25	30	M24	6	30	0.30
BT50 45-COOLANT	85	45	8	35	5	10	23	38	17	25	30	M24	6	45	0.30
BT50 60-COOLANT	85	45	8	35	5	10	23	38	17	25	30	M24	6	60	0.30
BT50 90-COOLANT	71	31	8	23	5	10	24	36	18	25	30	M24	6	90	0.30
BT50 90L-COOLANT	85	45	8	35	5	10	23	38	17	25	30	M24	6	90	0.30

Unit: mm

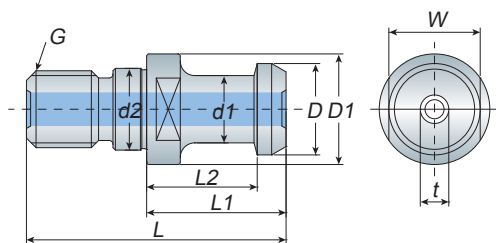
MAZAK

Pull Stud
拉桿 / 拉頭



Model No.	L	L1	L2	D	d	d1	d2	W	G	t	Weight (kg)
BT40 MAZAK	44.1	19.1	14.03	18.8	22	12.45	17	19	M16	7	0.06
BT50 MAZAK	65.2	25.2	17.56	29	36	20.83	25	30	M24	10	0.20

Unit: mm



Pull Stud

拉桿 / 拉頭

P323-1

Accessories



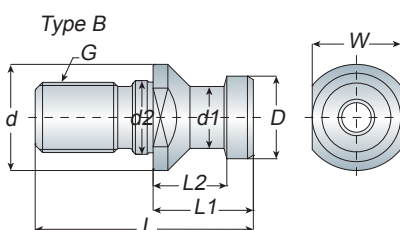
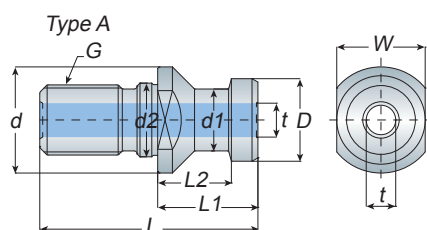
Model No.	L	L1	L2	D	D1	d1	d2	W	t	Weight (kg)
P323-1	54	29	23	19	23	14	17	19	7	0.08

Unit: mm

Pull Stud

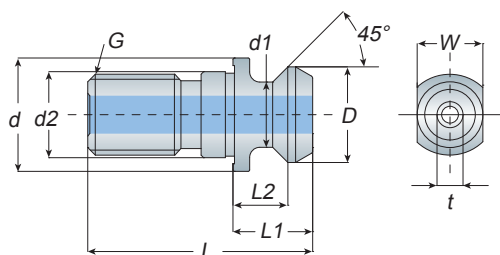
拉桿 / 拉頭

DIN



Model No.	Type	L	L1	L2	D	d	d1	d2	W	t	Weight (kg)
DIN69872A-M16	A	54	26	20	19	23	14	17	19	7.5	0.08
DIN69872A-M24	A	74	34	25	28	36	21	25	30	11.5	0.30
DIN69872B-M12	B	44	24	19	13	17	9	13	14	-	0.03
DIN69872B-M16	B	54	26	20	19	23	14	17	19	-	0.08
DIN69872B-M24	B	74	34	25	28	36	21	25	30	-	0.30

Unit: mm



Pull Stud

拉桿 / 拉頭

ISO7388



Model No.	L	L1	L2	D	d	d1	d2	W	G	t	Weight (kg)
ISO7388/2B-M16	44.5	16.4	11.15	18.9	22.5	12.9	17	19	M16	7.5	0.06
ISO7388/2B-M24	65.5	25.55	17.95	29.1	36	19.6	25	30	M24	11.5	0.20

Unit: mm

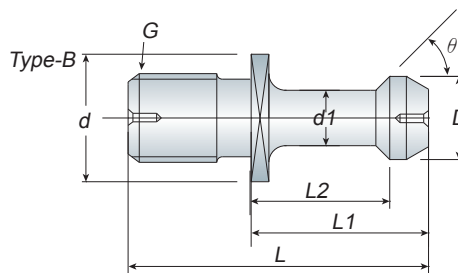
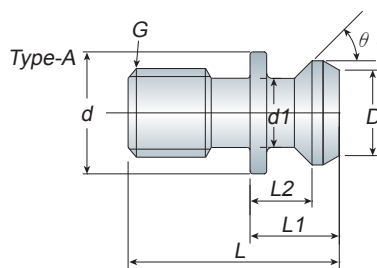
Accessories

CAT



Pull Stud

拉桿 / 拉頭



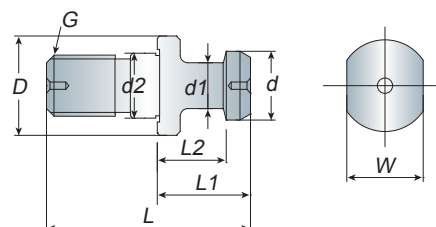
Model No.	Type	L	L1	L2	D	d	d1	G	θ	Weight (kg)
CAT40 45-A	A	1.500	0.640	0.440	0.074	0.940	0.490	5/8"-11	45	0.06
CAT50 45-A	A	2.300	1.000	0.700	1.140	1.440	0.820	1"-8	45	0.25
CAT40 45-B	B	2.120	1.266	0.990	0.590	0.905	0.394	5/8"-11	45	0.05
CAT40 60-B	B	2.120	1.266	0.990	0.590	0.905	0.394	5/8"-11	60	0.05
CAT40 90-B	B	2.120	1.266	0.990	0.590	0.905	0.394	5/8"-11	90	0.05
CAT50 45-B	B	3.070	1.772	1.378	0.906	1.102	0.669	1"-8	45	0.20
CAT50 60-B	B	3.070	1.772	1.378	0.906	1.102	0.669	1"-8	60	0.20
CAT50 90-B	B	3.070	1.772	1.378	0.906	1.102	0.669	1"-8	90	0.20

ISO



Pull Stud

拉桿 / 拉頭



Model No.	D	d	d1	d2	L	L1	L2	W	G	Weight (kg)
ISO20 15	12	9	6	8.5	26	12	9	10	M8	0.01
ISO25 15	12	10	7	9	32	16	11.6	10	M8	0.02
ISO30 15	17	13	9	13	45	24	19	14	M12	0.03

Unit: mm

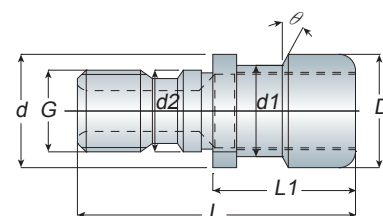
* For engraving machine.

OTT



Pull Stud

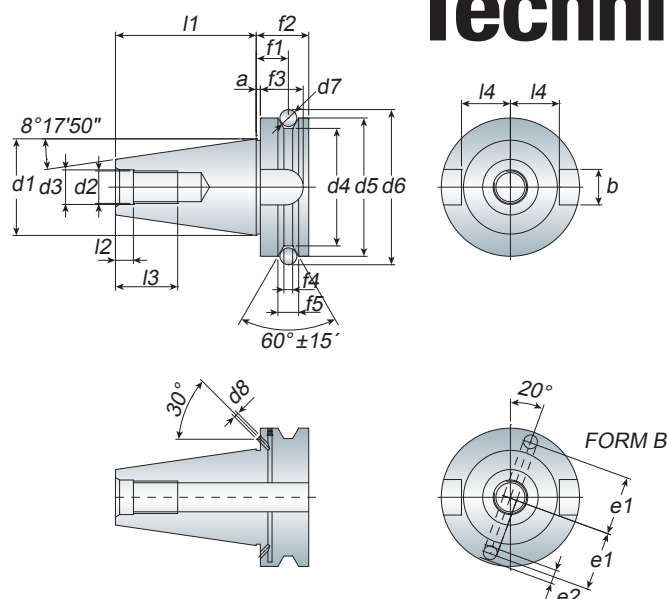
拉桿 / 拉頭



Model No.	L	L1	D	d	d1	d2	G	θ	Weight (kg)
OTT-P16D	55.95	27.95	25.3	25	21.1	17	M16	15	0.95

Unit: mm

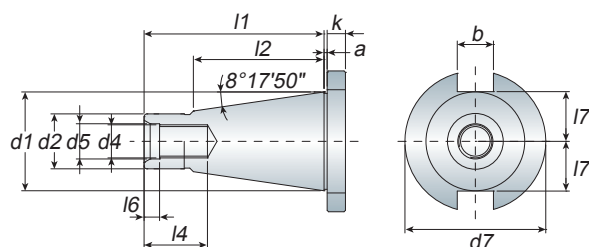
Technical Information



BT Shank

Shank Size	a	b	d1	d2	d3	d4	d5	d6	d7	d8	e1	e2	f1	f2	f3	f4	f5	l1	l2	l3	l4
BT30	2	16.1	31.75	M12	12.5	38	46	56.144	8	4	21	5	13.6	22	17	4	8	48.4	7	24	16.3
BT40	2	16.1	44.45	M16	17	53	63	75.679	10	4	27	5	16.6	27	21	5	10	65.4	9	30	22.6
BT50	3	25.7	69.85	M24	25	85	100	119.019	15	6	42	7	23.2	38	31	7	15	101.8	13	45	35.4

Unit: mm



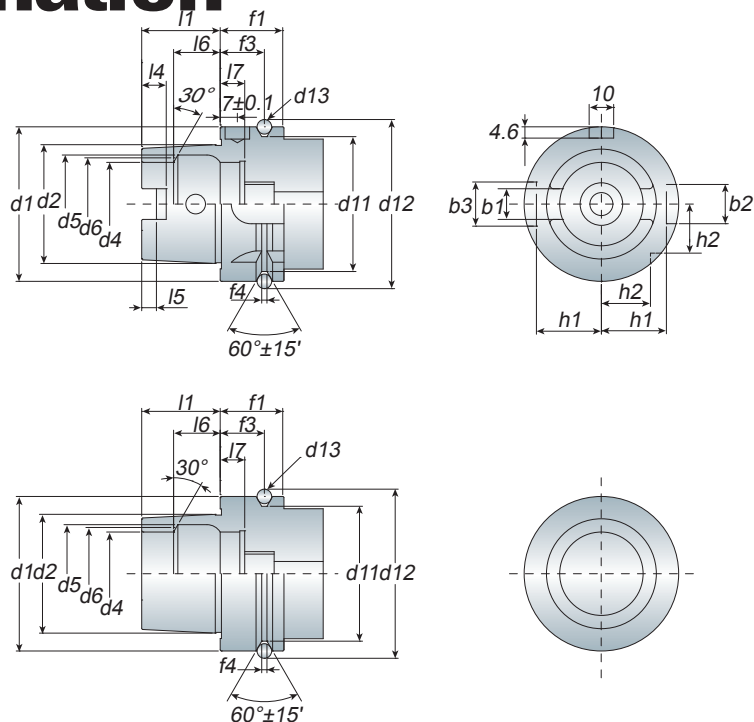
NT Shank

Shank Size	a	b	d1	d2	d4	d5	d7	k	l1	l2	l4	l6	l7
NT30	1.6	16.1	31.75	17.4	1/2"-12 M12x1.75P	13	50	8	68.4	48.4	24	5.5	16.2
NT40	1.6	16.1	44.45	25.3	5/8"-11 M16x2.0P	17	63	10	93.4	65.4	32	8.2	22.5
NT50	3.2	25.7	69.85	39.6	1"-8 M24x3.0P	26	97.5	12	126.8	101.8	47	11.5	35.3

Unit: mm

Technical Information

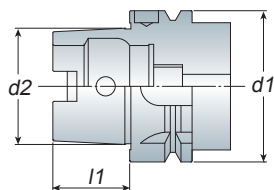
HSK-A/E Shank



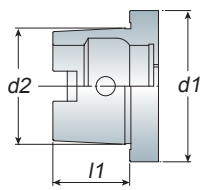
Shank Size	b1	b2	b3	d1	d2	d4	d5	d6	d11	d12	d13	f1	f3	f4	h1	h2	l1	l4	l5	l6	l7
HSK32	7.05	7	9	32	24	17	21	19	26.5	37	4	20	16	2	13	9.5	16	5	3	8.92	8
HSK40	8.05	9	11	40	30	21	25.5	23	34.8	45	4	20	16	2	17	12	20	6	3.5	11.42	8
HSK50	10.54	12	14	50	38	26	32	29	43	59.3	7	26	18	3.75	21	15.5	25	7.5	4.5	14.13	10
HSK63	12.54	16	18	63	48	34	40	37	55	72.3	7	26	18	3.75	26.5	20	32	10	6	18.13	10
HSK100	20.02	20	22	100	75	53	63	58	92	109.75	7	29	20	3.75	44	31.5	50	15	10	28.56	12.5

Unit: mm

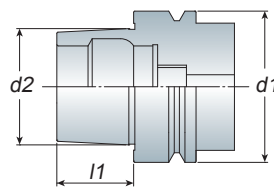
HSK-A



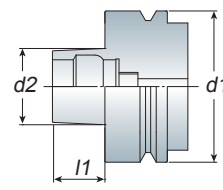
HSK-C



HSK-E



HSK-F



HSK-A

HSK-A	d1	d2	l1
32	32	24	16
40	40	30	20
50	50	38	25
63	63	48	32
100	100	75	50

Unit: mm

HSK-C

HSK-C	d1	d2	l1
32	32	24	16
40	40	30	20
50	50	38	25
63	63	48	32
100	100	75	50

Unit: mm

HSK-E

HSK-E	d1	d2	l1
32	32	24	16
40	40	30	20
50	50	38	25
63	63	48	32

Unit: mm

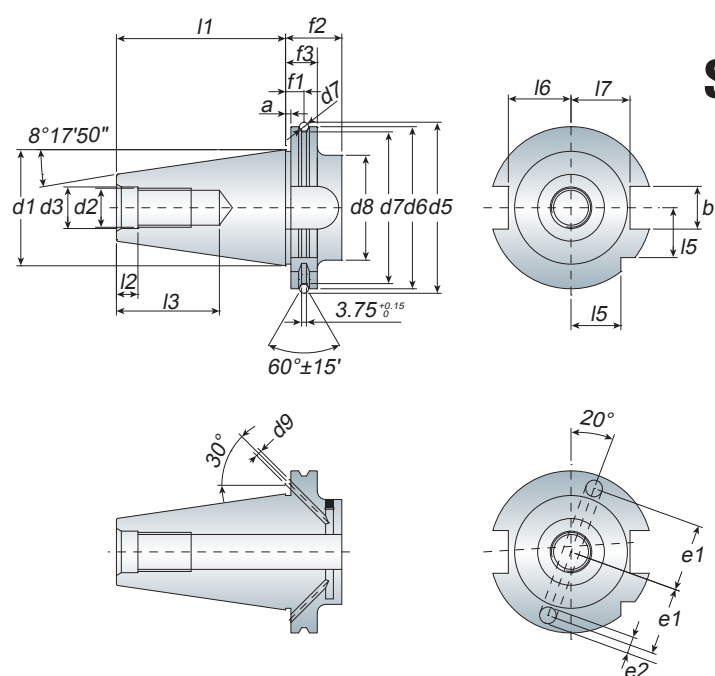
HSK-F

HSK-F	d1	d2	l1
50	50	30	20
63	63	38	25

Unit: mm

Technical Information

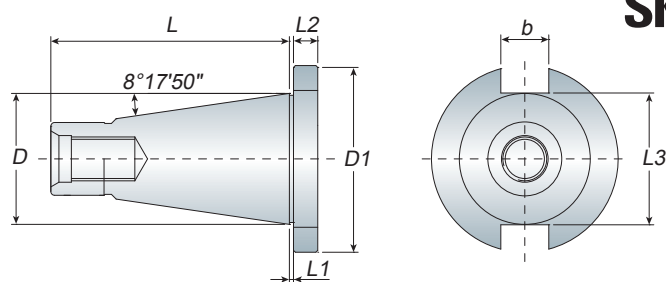
SK-DIN69871A Shank



Shank Size	a	b	d1	d2	d3	d5	d6	d7	d8	d9	e1	e2	f1	f2	f3	l1	l2	l3	l5	l6	l7
SK30	3.2	16.1	31.75	M12	13	59.3	50	44.3	45	4	21	5	11.1	35	19.1	47.8	5.5	24	15	16.4	19
SK40	3.2	16.1	44.45	M16	17	72.3	63.55	56.25	50	4	27	5	11.1	35	19.1	68.4	8.2	32	18.5	22.8	25
SK50	3.2	25.7	69.85	M24	25	107.25	97.50	91.25	80	6	42	7	11.1	35	19.1	101.75	11.5	47	30	35.5	37.7

Unit: mm

SK-DIN2080 Shank

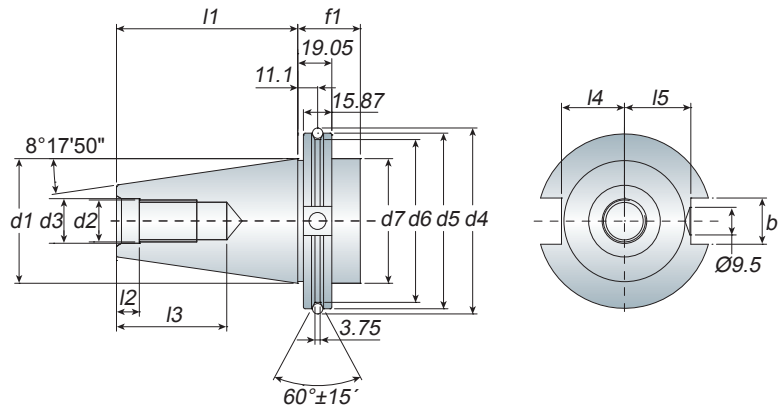


Shank Size	D	D1	L	L1	L2	L3	b	G
SK30	31.75	50	68.4	1.6	8	32.4	16.1	M12
SK40	44.45	63	93.4	1.6	10	45	16.1	M16
SK50	69.85	97.5	126.8	3.2	12	70.6	25.7	M24

Unit: mm

Technical Information

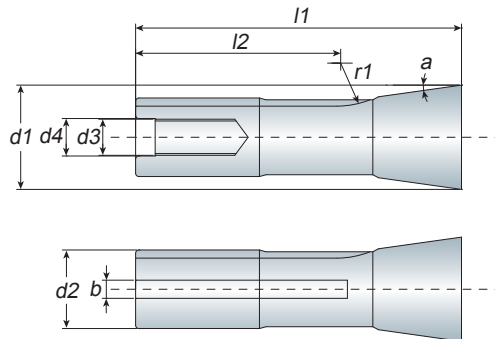
CAT Shank



Shank Size	b	d1	d2	d3	d4	d5	d6	d7	f1	l1	l2	l3	l4	l5
CAT40	16.1	44.45	5/8"-11	17	72.3	63.55	56.25	44.45	35	68.4	4.75	30	22.8	26
CAT50	25.7	69.85	1"-8	25	107.25	98.45	91.25	69.85	36.5	101.75	5.75	45	35.5	40.4

Unit: mm

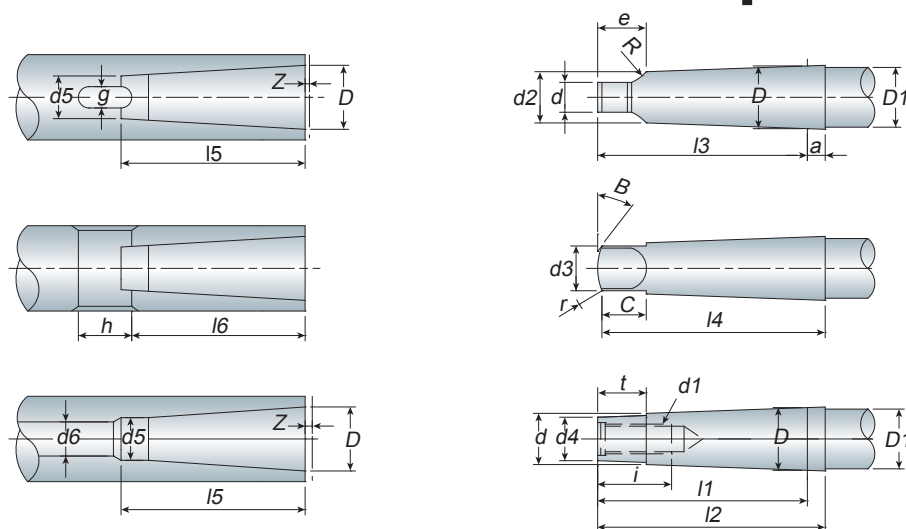
R8 Shank



Shank Size	a	b	d1	d2	d3	d4	l1	l2	r1
R8	8°25'30"	4.2	31.75	24.109	M12	12.5	101	60	20

Unit: mm

Morse Taper Shank



Code Number		Morse Taper Shank							
		0	1	2	3	4	5	6	7
		1:19.212 =0.05205	1:20.047 =0.04988	1:20.020 =0.04995	1:19.922 =0.05020	1:19.254 =0.05194	1:19.002 =0.05263	1:19.180 =0.05214	1:19.231 =0.05200
Outside Taper	D	9.045	12.065	17.780	23.825	31.267	44.399	63.348	83.058
	a	3	3.5	5	5	6.5	6.5	8	10
	D1	9.2	12.2	18	24.1	31.6	44.7	63.8	83.6
	d	6.4	9.4	14.6	19.8	25.9	37.6	53.9	70
	d1	-	M6	M10	M12	M16	*M20	M24	M33
	d2	6.1	9	14	19.1	25.2	36.5	52.4	68.2
	d3 Max.	6	8.7	13.5	18.5	24.5	35.7	51	66.8
	d4 Max.	6	9	14	19	25	35.7	51	65
	I1 Max.	50	53.5	64	81	102.5	129.5	182	250
	I2 Max.	53	57	69	86	109	136	190	260
	I3 Max.	56.5	62	75	94	117.5	149.5	210	286
	I4 Max.	59.5	65.5	80	99	124	156	218	296
	b h13	3.9	5.2	6.3	7.9	11.9	15.9	19	28.5
	C	6.5	8.5	10	13	16	19	27	35
	e Max.	10.5	13.5	16	20	24	29	40	54
	i Min.	-	16	24	28	32	40	50	80
	R Max.	4	5	6	7	8	10	13	19
	r	1	1.2	1.6	2	2.5	3	4	5
	t Max.	4	5	5	7	9	9	12	185
	Inside Taper	d5 H11	6.7	9.7	14.9	20.2	26.5	38.2	54.6
d6		-	7	11.5	14	18	23	27	30
I5 Min.		52	56	67	84	107	135	188	258
I6		49	52	62	78	98	125	177	241
g A13		41	5.4	6.6	8.2	12.2	16.2	19.3	28.8
h		15	19	22	27	32	38	47	69
z		1	1	1	1	1.5	15	2	2

Unit: mm

ABT 兩面拘束刀柄系統 PAT. (ABT Double Contact Tooling System PAT.)

特色

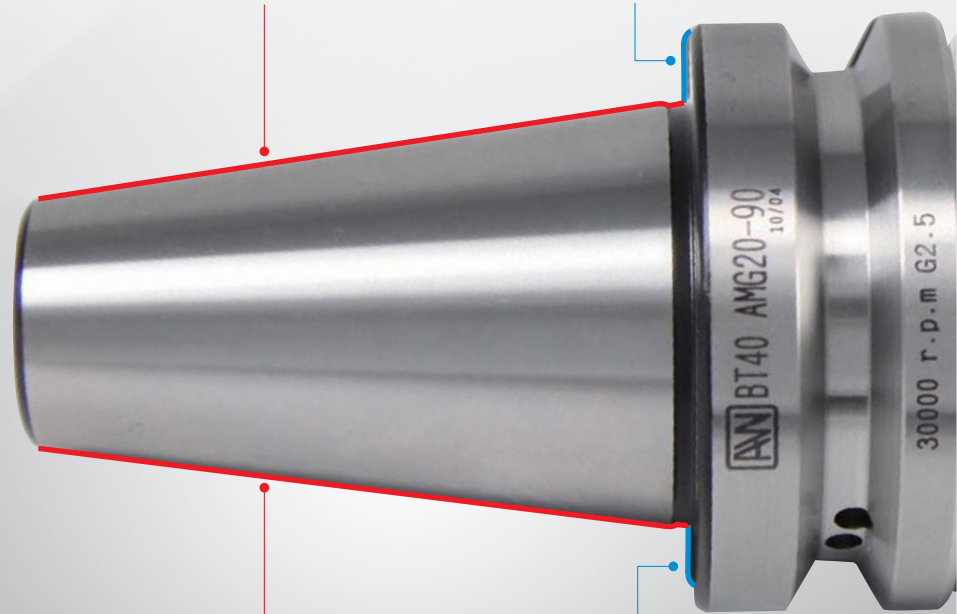
- CNC主軸與刀柄的錐度面及端面同時緊貼，能實現高精度、高剛性及高效率之加工。
- 動平衡可達 40000 r.p.m G2.5
- 訂購時請參考第166-173頁

Feature

- TAPER & FLANGE CONTACT:
To improve the working for
High Precision ! High Rigidity !
High Efficiency !
- Improving and extending the
cutting tool lifetime.
- Max Speed: 40,000 r.p.m G2.5
- When ordering, please refer to
P166-173

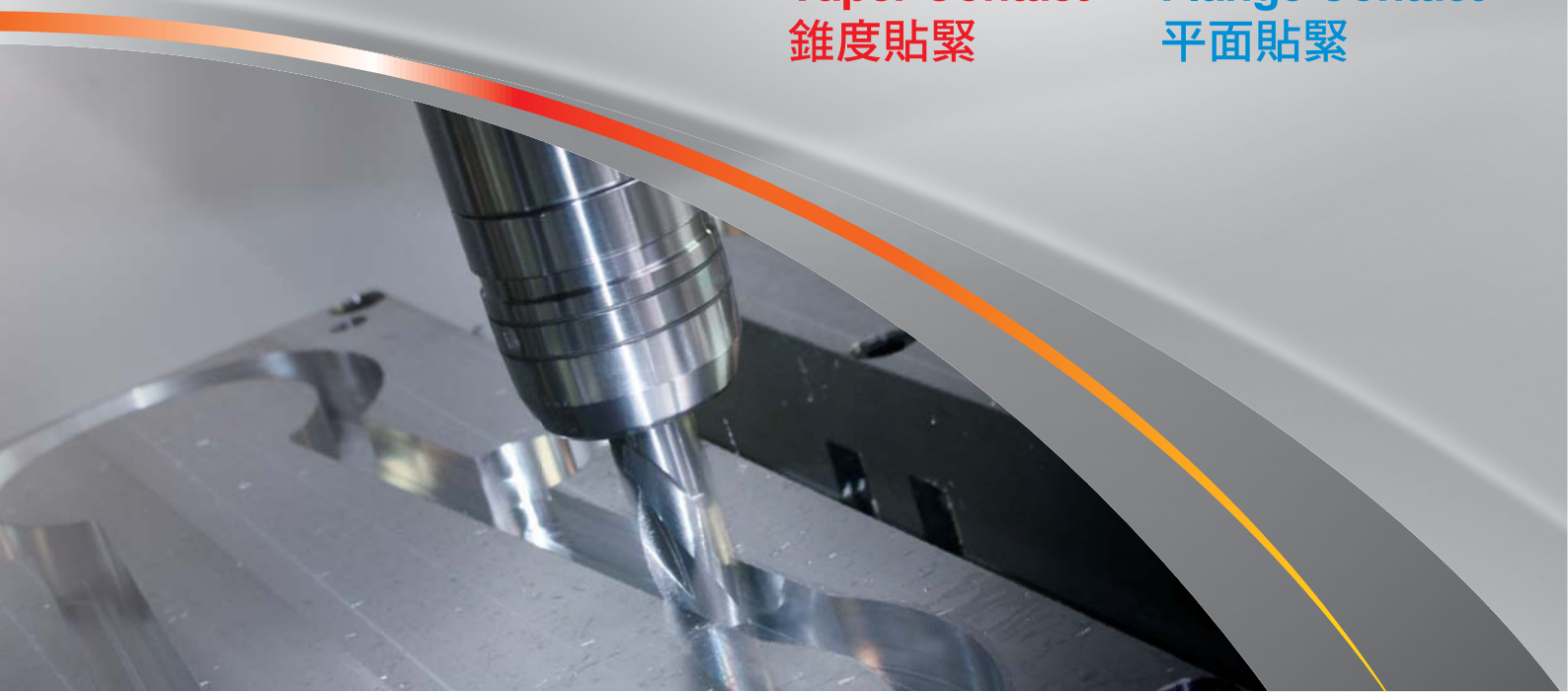
Taper Contact
錐度貼緊

Flange Contact
平面貼緊



Taper Contact
錐度貼緊

Flange Contact
平面貼緊





安威機具股份有限公司
ANN WAY MACHINE TOOLS CO., LTD.

42952台灣台中市神岡區厚生路63-3號

No. 63-3, Housheng Rd., Shengang Dist., Taichung 42952 Taiwan

Tel: 886-4-2563-1259

Fax: 886-4-2563-1269 / 886-4-2561-3712

www.annwaytools.com.tw

annway.tools@msa.hinet.net

台南辦事處 台南縣永康市中正南路685號

Tel: +886-6-254-2051 Fax: +886-6-253-6222

東莞展威 東莞市長安鎮新安社區麥園路13巷3號1樓

TEL: 86-769-8162-8700 FAX: 86-769-8162-8707

昆山玄京 昆山市張浦鎮垵圻路198號2樓

TEL: 86-512-5729-2408 FAX: 86-512-5729-2400

