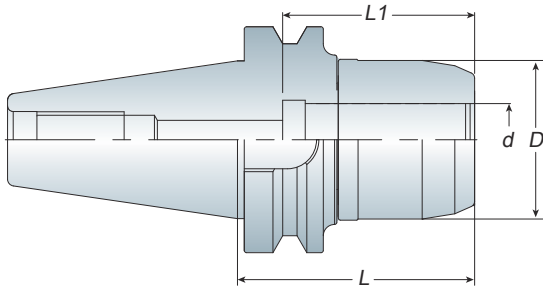


BT / NT
series

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.
- Clamping the tools without collet is excellent for heavy cutting.
- Wrench must be ordered separately.
- Balancing: 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
- 在沒有使用筒夾的情況下，直接夾持刀具，重切削效果最佳
- 扳手為另購品
- 動平衡：30,000 r.p.m G2.5

Model No.	d	D	L	L1	Wrench	Weight (kg)
BT30 AMG10-080	10	46	80	67	WAMG12	1.10
AMG12-080	12	46	80	67	WAMG12	1.10
AMG16-095	16	54	95	60	WAMG16	1.30
AMG20-095	20	58	95	70	WAMG20	1.60
AMG25-100	25	62	100	90	WAMG25	1.80
AMG32-095	32	70	95	90	WAMG32	2.00
BT40 AMG10-080	10	46	80	67	WAMG12	1.60
AMG12-080	12	46	80	67	WAMG12	1.60
-105	12	46	105	67	WAMG12	2.00
AMG16-080	16	54	80	60	WAMG16	1.80
-105	16	54	105	60	WAMG16	2.30
AMG20-095	20	58	95	70	WAMG20	2.00
-105	20	58	105	70	WAMG20	2.30
AMG25-095	25	62	95	90	WAMG25	2.20
AMG32-090	32	70	90	90	WAMG32	2.30
-105	32	70	105	90	WAMG32	2.60
BT50 AMG10-105	10	46	105	67	WAMG12	4.60
AMG12-105	12	46	105	67	WAMG12	4.60
-135	12	46	135	67	WAMG12	5.10
-165	12	46	165	67	WAMG12	5.80
AMG16-105	16	54	105	60	WAMG16	4.90
-135	16	54	135	60	WAMG16	5.50
-165	16	54	165	60	WAMG16	6.50
AMG20-105	20	58	105	70	WAMG20	4.90
-135	20	58	135	70	WAMG20	5.60
-165	20	58	165	70	WAMG20	6.50
AMG25-105	25	62	105	90	WAMG25	4.90
-135	25	62	135	90	WAMG25	5.70
-165	25	62	165	90	WAMG25	6.70
AMG32-105	32	70	105	90	WAMG32	5.00
-135	32	70	135	90	WAMG32	5.80
-165	32	70	165	90	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

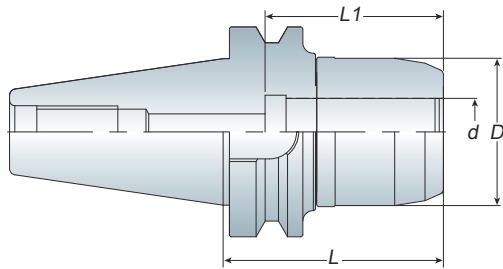


High Speed Milling Chuck

高轉速強力銑刀夾頭刀桿

ASG

BT / NT
series

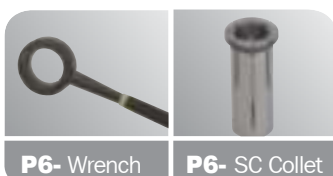


Features

- 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.
- Balancing: 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
- 動平衡：30,000 r.p.m G2.5

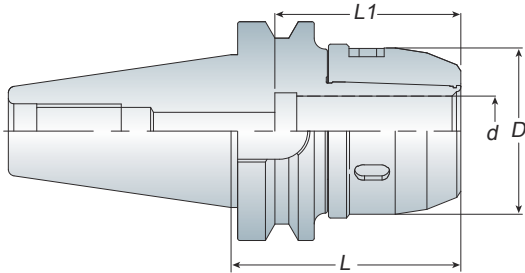
Model No.	Clamping Range	d	D	L	L1	Collet Type	Weight (kg)
BT30 ASG10-070	10	10	35	70	-	-	1.10
ASG12-070	3~12	12	35	70	-	SC12	1.10
ASG16-080	3~16	16	46	80	65	SC16	1.10
ASG20-085	4~20	20	54	85	72	SC20	1.40
BT40 ASG10-080	10	10	35	80	-	-	1.40
ASG12-080	3~12	12	35	80	-	SC12	1.40
-095	3~12	12	35	95	-	SC12	1.50
-120	3~12	12	35	120	-	SC12	1.80
ASG16-080	3~16	16	46	80	65	SC16	1.60
-105	3~16	16	46	105	65	SC16	2.00
-135	3~16	16	46	135	65	SC16	2.40
ASG20-080	4~20	20	54	80	72	SC20	1.80
-105	4~20	20	54	105	72	SC20	2.30
-135	4~20	20	54	135	72	SC20	2.90
ASG25-090	6~25	25	58	90	85	SC25	2.00
-120	6~25	25	58	120	85	SC25	2.60
ASG32-105	6~32	32	68	105	95	SC32	2.40
-135	6~32	32	68	135	95	SC32	3.20
BT50 ASG10-110	10	10	35	110	-	-	4.20
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	65	SC16	4.40
-110	3~16	16	46	110	65	SC16	4.70
-135	3~16	16	46	135	65	SC16	4.90
-150	3~16	16	46	150	65	SC16	5.20
ASG20-090	4~20	20	54	90	72	SC20	4.50
-110	4~20	20	54	110	72	SC20	5.00
-135	4~20	20	54	135	72	SC20	5.30
-150	4~20	20	54	150	72	SC20	5.40
ASG25-110	6~25	25	58	110	85	SC25	5.00
-150	6~25	25	58	150	85	SC25	5.40
ASG32-110	6~32	32	68	110	95	SC32	5.10
-150	6~32	32	68	150	95	SC32	6.40

Unit: mm



P6- Wrench

P6- SC Collet



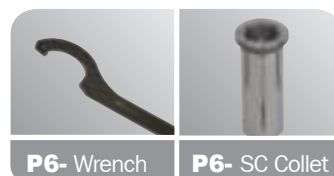
Model No.	Clamping Range	d	D	L	L1	Collet Type	Weight (kg)
BT30 ASC16-080	3~16	16	46	80	65	SC16	1.10
ASC20-085	4~20	20	53	85	72	SC20	1.30
BT40 ASC16-080	3~16	16	46	80	65	SC16	1.60
-105	3~16	16	46	105	65	SC16	2.00
-135	3~16	16	46	135	65	SC16	2.40
ASC20-080	4~20	20	53	80	72	SC20	1.80
-105	4~20	20	53	105	72	SC20	2.30
-135	4~20	20	53	135	72	SC20	2.90
BT50 ASC16-090	3~16	16	46	90	65	SC16	4.40
-110	3~16	16	46	110	65	SC16	4.70
-135	3~16	16	46	135	65	SC16	4.90
-150	3~16	16	46	150	65	SC16	5.00
ASC20-090	4~20	20	53	90	72	SC20	4.50
-110	4~20	20	53	110	72	SC20	5.00
-135	4~20	20	53	135	72	SC20	5.60
-150	4~20	20	53	150	72	SC20	6.00

Unit: mm



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.
- Balancing: 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
- 動平衡：30,000 r.p.m G2.5



P6- Wrench

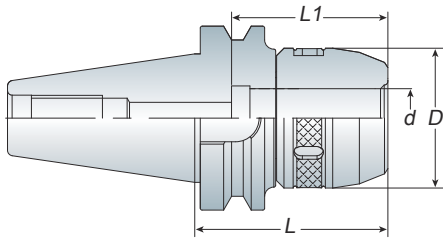
P6- SC Collet

Milling Chuck

強力銑刀夾頭刀桿

ASC

BT / NT series

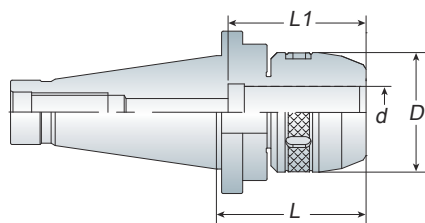


Model No.	Clamping Range	d	D	L	L1	Collet Type	Weight (kg)
BT30 ASC25-085	6~25	25	58	85	85	SC25	1.30
BT40 ASC25-090	6~25	25	58	90	85	SC25	1.90
-130	6~25	25	58	130	85	SC25	2.70
ASC32-095	6~32	32	68	95	95	SC32	2.20
-105	6~32	32	68	105	95	SC32	2.80
-130	6~32	32	68	130	95	SC32	3.30
BT50 ASC25-100	6~25	25	58	100	85	SC25	4.60
-150	6~25	25	58	150	85	SC25	5.50
ASC32-105	6~32	32	76	105	95	SC32	5.20
-150	6~32	32	76	150	95	SC32	6.40
-200	6~32	32	76	200	95	SC32	8.50
-250	6~32	32	76	250	95	SC32	9.70
ASC42-110	6~42	42	84	110	100	SC42	5.50
-160	6~42	42	84	160	100	SC42	7.60

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



Milling Chuck

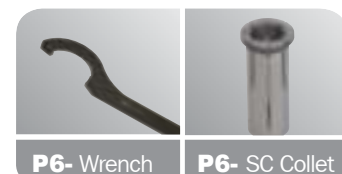
強力銑刀夾頭刀桿



Model No.	Clamping Range	d	D	L	L1	Collet Type	Draw Bolt	Weight (kg)
NT30 ASC20-085	4~20	20	53	85	72	SC20		1.60
ASC25-080	6~25	25	58	80	85	SC25	1/2"- 12 M12x1.75P	1.40
ASC32-090	6~32	32	68	90	95	SC32		1.80
NT40 ASC25-080	6~25	25	58	80	85	SC25		1.80
-130	6~25	25	58	130	85	SC25	5/8"- 11 M16x2.0P	2.60
ASC32-085	6~32	32	68	85	95	SC32		2.20
-130	6~32	32	68	130	95	SC32		3.00
NT50 ASC25-095	6~25	25	58	95	85	SC25		3.90
-150	6~25	25	58	150	85	SC25		5.30
ASC32-090	6~32	32	76	90	95	SC32		4.60
-150	6~32	32	76	150	95	SC32	1"- 8 M24x3.0P	5.60
ASC42-095	6~42	42	84	95	100	SC42		4.70
-150	6~42	42	84	150	100	SC42		6.80

Unit: mm

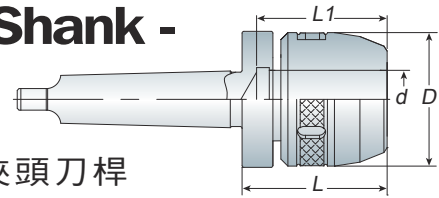
- When ordering, please specify the draw bolt with inch size or metric size.
- C-type wrench is attached for each ASC milling chuck.
- 請於訂購時，確認刀桿為英制或公制
- 每支 ASC 刀桿均附 1 支 C 型扳手



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

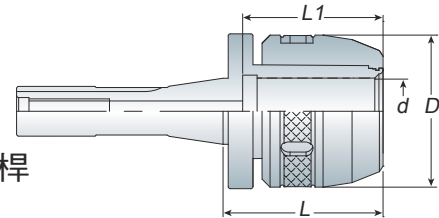
Model No.	Clamping Range	d	D	L	L1	Collet Type	Weight (kg)
MTA3 ASC25-070	6~25	25	58	70	85	SC25	1.50
MTA4 ASC25-070	6~25	25	58	70	85	SC25	1.90
ASC32-080	6~32	32	76	80	95	SC32	2.20
MTA5 ASC25-075	6~25	25	58	75	85	SC25	2.60
ASC32-080	6~32	32	76	80	95	SC32	3.40
ASC42-090	6~42	42	84	90	100	SC42	4.70
MTA6 ASC25-075	6~25	25	58	75	85	SC25	5.30
ASC32-080	6~32	32	76	80	95	SC32	6.10
ASC42-090	6~42	42	84	90	100	SC42	6.50

Unit: mm

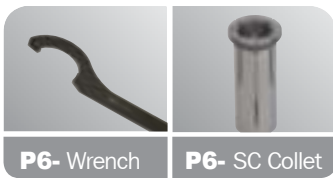


- C-type wrench is attached for each ASC milling chuck.
- 每支 ASC 刀桿均附 1 支 C 型扳手

R8 Taper Shank



R8 強力銑刀夾頭刀桿



P6- Wrench

P6- SC Collet

Model No.	Clamping Range	d	D	L	L1	Collet Type	Weight (kg)
R8 ASC25-070	6~25	25	58	70	85	SC25	1.40
ASC32-075	6~32	32	68	75	95	SC32	1.70

Unit: mm

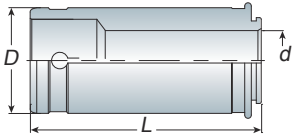


Straight Collet Set

直東筒夾組

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	4,6,8,10,12,16	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

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

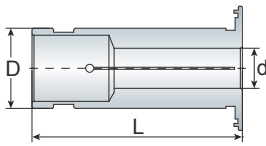
SC

BT / NT
series



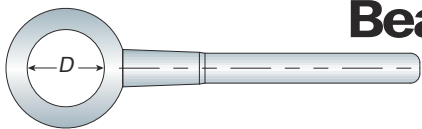
Straight Collet-Coolant Type

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

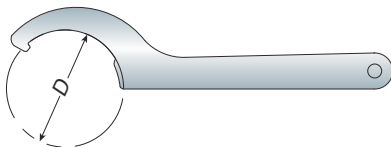


Bearing Wrench

軸承扳手

Model No.	D	Suit for	Weight (kg)
WASG10 / WASG12	35	ASG10 / 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

Model No.	D	Suit for	Weight (kg)
WASC16	46	ASC16	0.22
WASC20	53	ASC20	0.22
WASC25	55~60	ASC25 / OZ25	0.28
WASC32	68	BT30 / BT40 ASC32	0.35
WASC42	72~84	BT50 ASC32 / ASC42 / OZ32	0.40

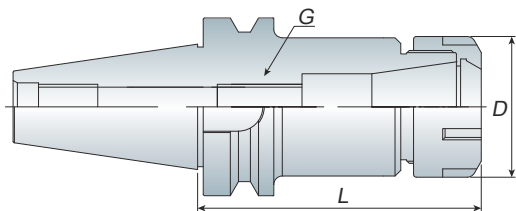
Unit: mm

ASC



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 power ball bearing nut, high speed bearing nut and wrench.
- Wrench and Stop screw 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 刀桿可另外選配強力型鋼珠螺帽、高速鋼珠螺帽及扳手
- ER 扳手及止付螺絲為另購品



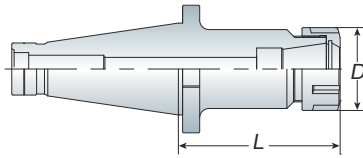
Model No.	Clamping Range	D	L	G	Collet Type	Wrench	Weight (kg)
BT30 ER08-060M	1~5	12	60	M6	ER08	WM08	0.50
-100M	1~5	12	100	M6	ER08	WM08	0.60
ER11-100M	1~7	16	100	M8	ER11	WM11	0.60
ER16-100M	1~10	22	100	M12	ER16	WM16	0.70
ER20-100M	1~13	28	100	M14	ER20	WM20	0.80
BT40 ER11-070M	1~7	16	70	M8	ER11	WM11	1.15
-100M	1~7	16	100	M8	ER11	WM11	1.20
ER16-100M	1~10	22	100	M12	ER16	WM16	1.25
ER20-100M	1~13	28	100	M14	ER20	WM20	1.30
BT30 ER11-060	1~7	19	60	M8	ER11	WER11	0.60
ER16-060	1~10	28	60	M12	ER16	WER16	0.60
-070	1~10	28	70	M12	ER16	WER16	0.70
ER20-060	1~13	34	60	M14	ER20	WER20	0.60
ER25-060	2~16	42	60	M18	ER25	WER25	0.70
ER32-060	2~20	50	60	M24	ER32	WER32	0.75
-070	2~20	50	70	M24	ER32	WER32	0.80
BT40 ER11-070	1~7	19	70	M8	ER11	WER11	1.20
-100	1~7	19	100	M8	ER11	WER11	1.25
ER16-070	1~10	28	70	M12	ER16	WER16	1.20
-100/150	1~10	28	100/150	M12	ER16	WER16	1.40/1.60
ER20-080	1~13	34	80	M14	ER20	WER20	1.30
-100/150	1~13	34	100/150	M14	ER20	WER20	1.50/1.80
ER25-080	2~16	42	80	M18	ER25	WER25	1.50
-100/150	2~16	42	100/150	M18	ER25	WER25	1.70/2.10
ER32-060	2~20	50	60	M24	ER32	WER32	1.30
-070	2~20	50	70	M24	ER32	WER32	1.40
-100/150	2~20	50	100/150	M24	ER32	WER32	1.80/2.60
ER40-080	3~26	63	80	M28	ER40	WER40	1.70
-100	3~26	63	100	M28	ER40	WER40	2.20
BT50 ER16-100/150	1~10	28	100/150	M12	ER16	WER16	4.10/4.30
-200/250/300	1~10	28	200/250/300	M12	ER16	WER16	4.60/5.10/5.40
ER20-100/150	1~13	34	100/150	M14	ER20	WER20	4.20/4.50
-200/250/300	1~13	34	200/250/300	M14	ER20	WER20	4.90/5.50/5.90
ER25-100/150	2~16	42	100/150	M18	ER25	WER25	4.20/4.80
-200/250/300	2~16	42	200/250/300	M18	ER25	WER25	5.30/6.10/6.80
ER32-100/150	2~20	50	100/150	M24	ER32	WER32	4.40/5.20
-200/250/300	2~20	50	200/250/300	M24	ER32	WER32	5.90/6.60/7.50
ER40-080	3~26	63	80	M28	ER40	WER40	4.30
-100/150	3~26	63	100/150	M28	ER40	WER40	4.70/5.90
-200/250/300	3~26	63	200/250/300	M28	ER40	WER40	7.10/8.20/9.30



另可搭配強力型鋼珠螺帽



另可搭配高速鋼珠螺帽



Spring Collet Chuck

彈性筒夾本體

ER

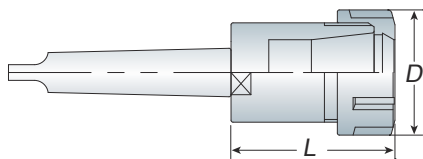
BT / NT
series

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



- When ordering, please specify the draw bolt for inch size or metric size.
- Wrench and Stop screw must be ordered separately
- 請於訂購時，確認刀桿為英制或公制
- ER 扳手及止付螺絲為另購品



Morse Taper Shank - Tang Type

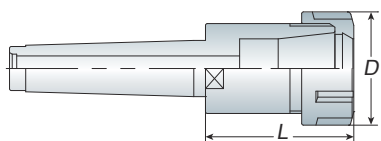
莫氏錐度彈性筒夾本體 -A 型



Model No.	D	L	Collet Type	Weight (kg)
MTA2 ER16-32	28	32	ER16	0.20
ER20-48	34	48	ER20	0.50
ER25-51	42	51	ER25	0.70
MTA3 ER16-40	28	40	ER16	0.40
ER32-53	50	53	ER32	0.80
ER40-80	63	80	ER40	1.30
MTA4 ER32-60	50	60	ER32	1.30
ER40-80	63	80	ER40	1.70
MTA5 ER40-80	63	80	ER40	2.90

Unit: mm

- Wrench and Stop screw must be ordered separately.
- ER 扳手及止付螺絲為另購品



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 and Stop screw must be ordered separately.
- ER 扳手及止付螺絲為另購品

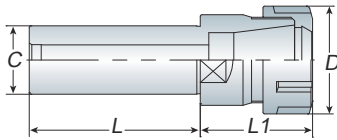


BT / NT
series

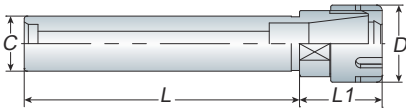
ER

Straight Shank Collet Chuck

直柄彈性筒夾本體



- Wrench and Stop screw must be ordered separately.
- ER 扳手及止付螺絲為另購品



- Wrench and Stop screw must be ordered separately.
- ER 扳手及止付螺絲為另購品



- Wrench and Stop screw must be ordered separately.
- ER 扳手及止付螺絲為另購品



- Wrench and Stop screw must be ordered separately.
- ER 扳手及止付螺絲為另購品



P16- ER Nut P12/13- ER Collet P17- Wrench P245 - Stop Screw

Model No.	C	D	L	L1	Collet Type	Weight (kg)
C20 ER16-050	20	28	50	35	ER16	0.20
-100/150	20	28	100/150	35		0.35/0.45
ER20-050	20	34	50	40	ER20	0.25
-100/150	20	34	100/150	40		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	20	ER16	0.40/0.70
ER20-100/150	25	34	100/150	38	ER20	0.50/0.75
ER25-100/150	25	42	100/150	42	ER25	0.55/0.80
ER32-080	25	50	80	58	ER32	0.80
ER40-100	25	63	100	60	ER40	1.10
C32 ER25-060	32	42	60	46	ER25	0.70
ER32-100/150	32	50	100/150	58	ER32	1.10/1.40
ER40-100	32	63	100	60	ER40	1.30
C40 ER32-100	40	50	100	52	ER32	1.30
ER40-100	40	63	100	60	ER40	1.60

Unit:mm

Straight Shank Collet Chuck - M Type

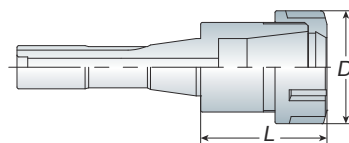
直柄彈性筒夾本體 -M 型

Model No.	C	D	L	L1	Collet Type	Weight (kg)
C16 ER11-050M	16	16	50	15	ER11	0.10
-100M	16	16	100	15		0.20
ER16-050M	16	22	50	32	ER16	0.15
-100M/150M	16	22	100/150	32		0.20/0.30
C20 ER16-050M	20	22	50	32	ER16	0.20
-100M/150M	20	22	100/150	32		0.30/0.40
ER20-050M	20	28	50	40	ER20	0.20
-100M/150M	20	28	100/150	40		0.35/0.50
C25 ER20-050M	25	28	50	40	ER20	0.30
-100M/150M	25	28	100/150	40		0.50/0.60

Unit: mm

R8 Taper Shank

R8 彈性筒夾本體

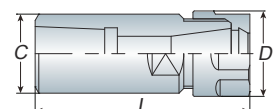


Model No.	D	L	Collet Type	G	Weight (kg)
R8 ER16	28	35	ER16	7/16"x20 UNF	0.60
ER25	42	43	ER25		0.70
ER32	50	60	ER32		0.90
ER40	63	68	ER40		1.40

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

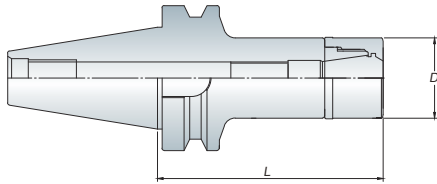
Unit: mm

Spring Collet Chuck

彈性筒夾本體

MER

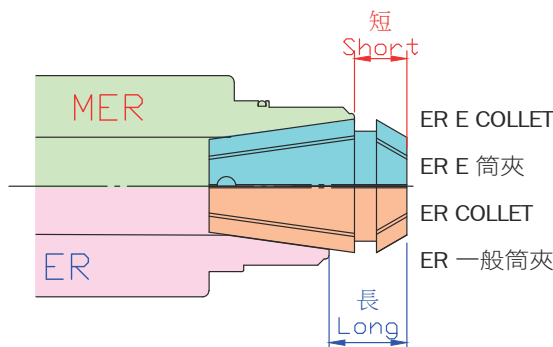
BT / NT
series



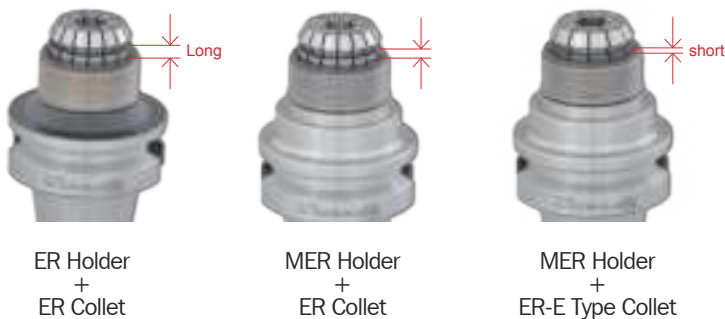
Model No.	Clamping Range	D	L	Wrench	Weight (kg)
BT30 MER16-060	1~10	30	60	WER16G	0.70
-070	1~10	30	70	WER16G	0.80
MER20-060	1~13	35	60	WER20G	0.70
MER25-060	2~16	40	60	WER25G	0.80
MER32-060	2~20	50	60	WER32G	0.85
-070	2~20	50	70	WER32G	0.90
BT40 MER16-070/100	1~10	30	70/100	WER16G	1.30/1.50
-120/150	1~10	30	120/150	WER16G	1.60/1.70
MER20-080/100	1~13	35	80/100	WER20G	1.40/1.50
-120/150	1~13	35	120/150	WER20G	1.70/1.90
MER25-080/100	2~16	40	80/100	WER25G	1.60/1.80
-120/150	2~16	40	120/150	WER25G	2.00/2.20
MER32-070/100	2~20	50	70/100	WER32G	1.50/1.90
-120	2~20	50	120	WER32G	2.10
BT50 MER16-100/150	1~10	30	100/150	WER16G	4.20/4.40
MER20-100/150	1~13	35	100/150	WER20G	4.30/4.60
MER25-100/150	2~16	40	100/150	WER25G	4.30/4.90
MER32-100/150	2~20	50	100/150	WER32G	4.50/5.30

Unit: mm

- MER 刀桿本體內孔模具線較深，使用 E 型筒夾置入時，更達到完全包覆性，增加加工穩定性。
- The design of deeper gauge line for MER holder. Recommend using ER-E type collet into the body (holder). The increasing length of contact area between collet and holder for improved clamping force.



*** 比較 / Compare ***



- MER has more contact area between holder and collet to make better radial cutting force than standard ER.
- Special design of MER High speed bearing nut, the clamping power is better than Standard ER type.
- MER system are suitable for high speed and high precision cutting.
- Suitable to use with ER-E type collet, the cutting condition will be excellent.
- Also could be used with standard ER collet, the clamping range change to 0.5mm from 1mm
Ex. MER20 holder + ER20 O6 collet => Clamping range: 6~5.5mm
- WER..G bearing wrench and Stop screw must be ordered separately.
- Balancing: 30,000 r.p.m G2.5
- MER 系列比 ER 系列擁有更大的接觸面積及更少的突出長度，可提供更高的徑向切削力
- 獨特 MER 高速強力型鋼珠螺帽設計比一般 ER 系列具備更高的夾持力
- 適用於高轉速、高精密切削。
- 建議搭配 ER-E 型 立銑刀專用筒夾，切削效果極佳
- 亦可搭配一般 ER 筒夾使用，但夾持力範圍從 1mm 降為 0.5mm 為一單位
Ex. MER20 刀桿 + ER20 O6 筒夾 => 其夾持力範圍為 6~5.5mm
- WER..G 軸承扳手及止付螺絲為另購品
- 動平衡：30,000 r.p.m G2.5

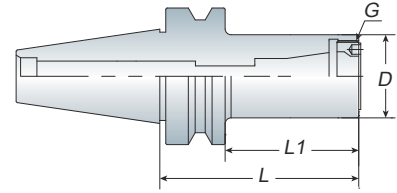


BT / NT
series

ERA

High Speed Collet Chuck

高速彈性筒夾本體



- 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 and Stop screw must be ordered separately
- Balancing: 30,000 r.p.m G2.5
- BT-ERA is produced by order
- 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 扳手及止付螺絲為另購品
- 動平衡：30,000 r.p.m G2.5
- BT-ERA 為訂單生產

Model No.	D	L1	L	G	Weight (kg)
BT30 ERA11-055	22	33	55	M18x1.0P	0.55
ERA16-065	28	43	65	M24x1.0P	0.65
ERA20-065	32	43	65	M28x1.5P	0.70
ERA25-060	38	38	60	M32x1.5P	0.70
BT40 ERA11-070	22	43	70	M18x1.0P	1.20
-100	22	73	100	M18x1.0P	1.20
ERA16-070	28	43	70	M24x1.0P	1.30
-100	28	73	100	M24x1.0P	1.30
ERA20-080	32	53	80	M28x1.5P	1.40
-100	32	73	100	M28x1.5P	1.50
ERA25-080	38	53	80	M32x1.5P	1.40
-100	38	73	100	M32x1.5P	1.50
ERA32-080	46	53	80	M40x1.5P	1.50
-100	46	73	100	M40x1.5P	1.80
BT50 ERA11-080	22	42	80	M18x1.0P	3.90
-110	22	72	110	M18x1.0P	4.00
ERA16-080	28	42	80	M24x1.0P	4.00
-110	28	72	110	M24x1.0P	4.10
ERA20-090	32	52	90	M28x1.5P	4.10
-110	32	72	110	M28x1.5P	4.20
ERA25-090	38	52	90	M32x1.5P	4.10
-110	38	72	110	M32x1.5P	4.30
ERA32-090	46	52	90	M40x1.5P	4.20
-110	46	72	110	M40x1.5P	4.50

Unit: mm



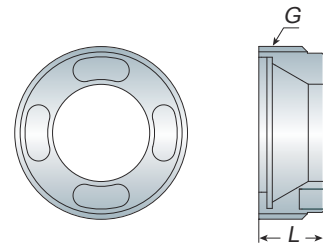
P12/13- ER Collet

P245- Stop Screw

ERA

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

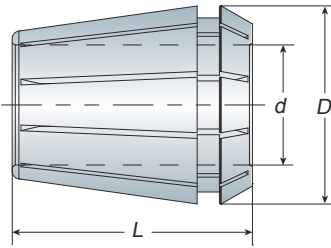
Spring Collet

彈性筒夾

ER

BT / NT series

- DIN6499 ISO15488 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	1/8,5/32,3/16,7/32,1/4,5/16,11/32,3/8,7/16,15/32,1/2,17/32,9/16,5/8,11/16,3/4,25/32	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

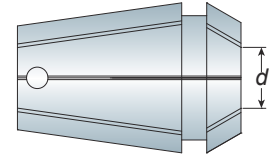
Unit: mm

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	ER11-01	1.0	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	ER11-1.5	1.5	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)

Collet for End Mill

立銑刀專用筒夾



ER16E (approx. 0.03kgs/pc)

Model No.	d
ER16E-03	3
ER16E-04	4
ER16E-05	5
ER16E-06	6
ER16E-08	8
ER16E-10	10

Unit:mm

ER20E (approx. 0.04kgs/pc)

Model No.	d
ER20E-03	3
ER20E-04	4
ER20E-05	5
ER20E-06	6
ER20E-08	8
ER20E-10	10
ER20E-12	12

Unit:mm

ER25E (approx. 0.07kgs/pc)

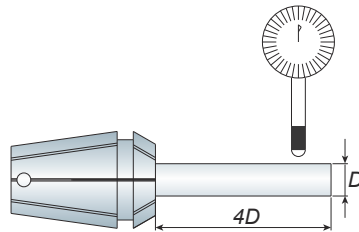
Model No.	d
ER25E-03	3
ER25E-04	4
ER25E-05	5
ER25E-06	6
ER25E-08	8
ER25E-10	10
ER25E-12	12
ER25E-14	14
ER25E-16	16

Unit:mm

ER32E (approx. 0.15kgs/pc)

Model No.	d
ER32E-03	3
ER32E-04	4
ER32E-05	5
ER32E-06	6
ER32E-08	8
ER32E-10	10
ER32E-12	12
ER32E-14	14
ER32E-16	16
ER32E-18	18
ER32E-20	20

Unit:mm

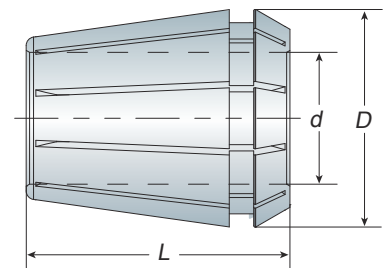


筒夾等級 Collet Grade	跳動精度 / Runout - Max μ 4 倍直徑前 - 4xD
A 級	$\leq 10\mu$
AA 級	$\leq 5\mu$

- When ordering, please specify the collet grade with A or AA.
- 請於訂購時註明 A 級或 AA 級
- For example / 例 :ER16E-06 A or ER16E-06AA

Collet - Coolant Type

止水型筒夾



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



- Maximum water pressure: 21kgf/cm²
- 最大水壓可達 21kgf/cm²



Tap Collet

攻牙筒夾

ER-GB

BT / NT series

- 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/ □)

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	W7/16, PT1/8											
8	6.2			M8	M11			M8	M11			M8	M11
8.5	6.5	M12				M12				M12			
9	7.1						M12				M12		
10	8						M10	M10			M10	M10	
10.5	8									M14			
11	9												M14
12	9									W5/8			M16
12.5	10									M16	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								
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			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

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	1.70

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	Nm	G	Collet Type	Weight (kg)
	CN11	1	19	13	30	M14x0.75P	ER11	0.01
	CN16	1	28	18.5	70	M22x1.5P	ER16	0.04
	CN20	1	34	21	100	M25x1.5P	ER20	0.07
	CN25	2	42	21.5	130	M32x1.5P	ER25	0.11
	CN32	2	50	24	170	M40x1.5P	ER32	0.15
	CN40	2	63	26	220	M50x1.5P	ER40	0.30
	CN50	2	78	35		M64x2.0P	ER50	0.50

Unit: mm

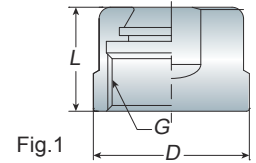


Fig.1

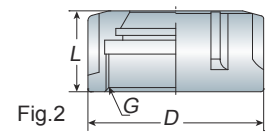


Fig.2

M Type Nut M 型螺帽	Model No.	FIG.	D	L	Nm	G	Collet Type	Weight (kg)
	CNM08	3	12	10.8	10	M10x0.75P	ER08	0.01
	CNM11	3	16	12	30	M13x0.75P	ER11	0.01
	CNM16	3	22	17	70	M19x1.0P	ER16	0.02
	CNM20	3	28	19.2	100	M24x1.0P	ER20	0.03

Unit: mm

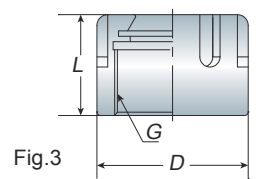


Fig.3

Power Ball Bearing Nut 強力型鋼珠螺帽	Model No.	FIG.	D	L	Nm	G	Collet Type	Weight (kg)
	CN16-B	4	32	19	70	M22x1.5P	ER16	0.07
	CN20-B	4	35	21	100	M25x1.5P	ER20	0.09
	CN25-B	4	43	22	130	M32x1.5P	ER25	0.13
	CN32-B	4	51	24	170	M40x1.5P	ER32	0.16
	CN40-B	4	63	29	220	M50x1.5P	ER40	0.31

Unit: mm

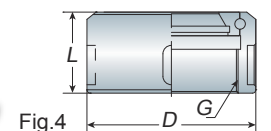


Fig.4

High Speed Bearing Nut 高速鋼珠螺帽	Model No.	FIG.	D	L	Nm	G	Collet Type	Weight (kg)
	CN-GER16	5	30	19	70	M22x1.5P	ER16	0.08
	CN-GER20	5	35	21	100	M25x1.5P	ER20	0.10
	CN-GER25	5	40	22	130	M32x1.5P	ER25	0.13
	CN-GER32	5	50	25	170	M40x1.5P	ER32	0.15

Unit: mm

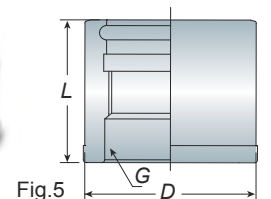
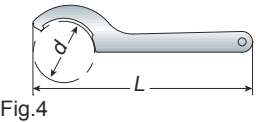
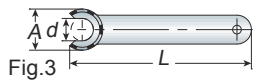
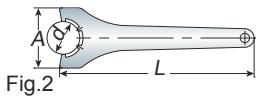
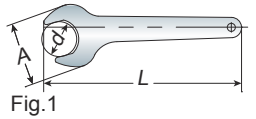


Fig.5

Wrench

扳手



Standard Wrench 普通扳手	Model No.	FIG.	A	d	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	d	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	

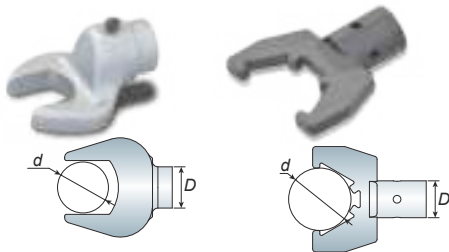
C Type Wrench (for power ball bearing nut) C 型扳手 (強力型鋼珠螺帽用)	Model No.	FIG.	d	L	Suit For	Weight (kg)
	WER16B	4	32	205	CN16-B	0.16
	WER20B	4	36	220	CN20-B	0.18
	WER25B	4	43	235	CN25-B	0.21
	WER32B	4	51	255	CN32-B	0.22
WER40B	4	63	260	CN40-B	0.25	

Bearing Wrench (for high speed bearing nut) 軸承扳手 (高速鋼珠螺帽用)	Model No.	FIG.	d	L	Suit For	Weight (kg)
	WER16G	5	30	-	CN16-G	0.60
	WER20G	5	35	-	CN20-G	0.65
	WER25G	5	40	-	CN25-G	0.80
WER32G	5	50	-	CN32-G	0.83	

Unit: mm

Torque Control Type

扭力型



Model No.	Type	d	D	Suit For	Weight(kg)
ER16TC	ER16	25	16	CN16	0.20
ER20TC	ER20	30	16	CN20	0.30
ER25TC	ER25	37	16	CN25	0.14
ER32TC	ER32	46.5	16	CN32	0.15
ER40TC	ER40	58	16	CN40	0.20

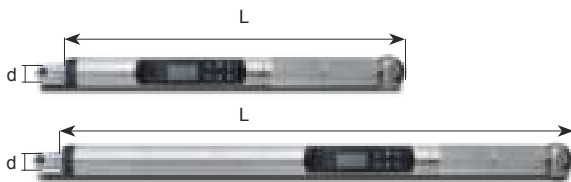
Unit: mm

Wrench Spigot

扭力扳手轉接頭

Spigot Interchangeable Digital Torque Wrench

數位顯示扭力扳手



Model No.	d	L	Nm	lbf-ft	lbf-in	Weight (kg)
WDG-252	16	373	10~135	7.4~99.6	89~1195	0.80
WDG-253	16	548	20~200	14.8~147	178~1780	1.05
WDG-254	16	748	34~340	25~250.9	301~3010	1.35

Unit: mm

Torque Wrench

扭力扳手



Model No.	d	L	Nm	lbf-ft	lbf-in	Weight (kg)
OP-1710AKB	16	405	20~100	14.8~74	178~890	1.15
OP-1718AK	16	500	40~200	29.6~148	356~1780	1.38
OP-1720AK	16	575	60~320	44.4~236.8	534~2848	1.50

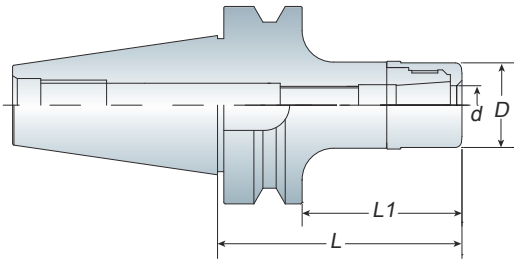
Unit: mm

High Speed Collet Chuck

高轉速精密筒夾本體

ASK

BT / NT series



Through tools
刀尖出水

Through collets
筒夾出水

Through tools must use integer collet and coolant nut together. (refer to P.25)

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.25)

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 and Stop Screw must be ordered separately.
- Balancing: 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 扳手及止付螺絲為另購品
- 動平衡：30,000 r.p.m G2.5

Model No.	Clamping Range (d)	D	L1	L	Weight (kg)
BT30 ASK06-060	2~6	19.05	38	60	0.60
-090	2~6	19.05	68	90	0.60
ASK10-070	2~10	27	48	70	0.70
-090	2~10	27	68	90	0.80
ASK13-060	3~13	33	38	60	1.00
-075	3~13	33	53	75	1.10
-090	3~13	33	68	90	1.10
ASK16-060	3~16	40	38	60	0.70
-090	3~16	40	68	90	0.90
-120	3~16	40	98	120	1.10
ASK20-060	4~20	48	38	60	0.80
ASK25-085	6~25.4	54	63	85	1.20
BT40 ASK06-060	2~6	19.05	33	60	1.10
-090	2~6	19.05	63	90	1.30
-120	2~6	19.05	93	120	1.50
ASK10-060	2~10	27	33	60	1.20
-080	2~10	27	53	80	1.30
-090	2~10	27	63	90	1.35
-100	2~10	27	73	100	1.40
-120	2~10	27	93	120	1.50
-150	2~10	27	123	150	1.60
ASK13-060	3~13	33	33	60	1.20
-080	3~13	33	53	80	1.30
-090	3~13	33	63	90	1.40
-100	3~13	33	73	100	1.50
-120	3~13	33	93	120	1.60
-150	3~13	33	123	150	1.80
ASK16-060	3~16	40	33	60	1.30
-080	3~16	40	53	80	1.50
-090	3~16	40	63	90	1.55
-100	3~16	40	73	100	1.60
-120	3~16	40	93	120	1.90
-150	3~16	40	123	150	2.10
ASK20-060	4~20	48	33	60	1.30
-090	4~20	48	63	90	1.80
-120	4~20	48	93	120	2.40
ASK25-070	6~25.4	54	43	70	1.50
-090	6~25.4	54	63	90	1.90
-120	6~25.4	54	93	120	2.20

Unit: mm



P20/21- SK Collet

P24- Wrench

P25- ASK Nut

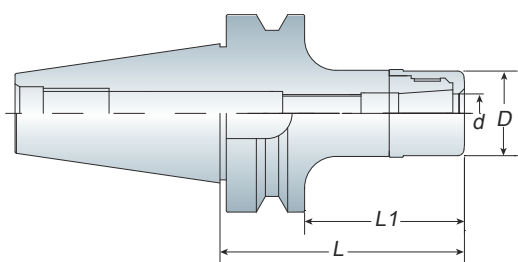
P245 - Stop Screw

BT / NT
series

ASK

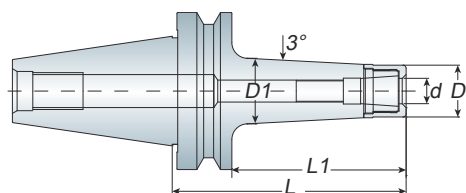
High Speed Collet Chuck

高轉速精密筒夾本體



Model No.	Clamping Range (d)	D	L1	L	Weight (kg)
BT50 ASK06-100	2~6	19.05	62	100	3.90
ASK10-100	2~10	27	62	100	4.00
-130	2~10	27	92	130	4.10
-150	2~10	27	112	150	4.20
ASK13-100	3~13	33	62	100	4.50
-130	3~13	33	92	130	4.70
-150	3~13	33	112	150	4.90
ASK16-100	3~16	40	62	100	4.20
-130	3~16	40	92	130	4.50
-150	3~16	40	112	150	5.00
ASK20-105	4~20	48	67	105	4.60
-135	4~20	48	97	135	5.00
-165	4~20	48	127	165	5.60
ASK25-100	6~25.4	54	62	100	4.50
-130	6~25.4	54	92	130	5.00
-150	6~25.4	54	112	150	5.30

Unit: mm



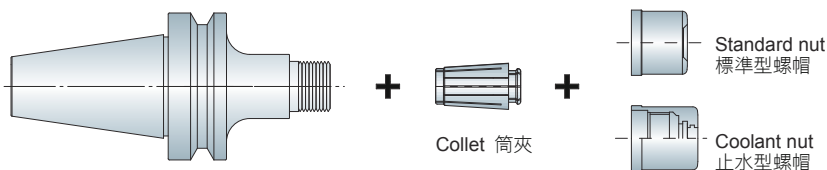
High Speed Collet Chuck - Rigidity Type

高轉速精密筒夾本體 -
高剛性型

- ASK-T tooling system is designed by taper type and suitable for high speed, high precision and reducing cutting vibration.
- Wrench and Stop Screw must be ordered separately.
- Balancing: 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 扳手及止付螺絲為另購品
- 動平衡：30,000 r.p.m G2.5

Model No.	Clamping Range (d)	D	D1	L1	L	Weight (kg)
BT40 ASK06-150T	2~6	19.05	29	123	150	1.50
ASK10-150T	2~10	27	36	123	150	1.60
ASK13-150T	3~13	33	43	123	150	1.80
ASK16-150T	3~16	40	49	123	150	1.90
BT50 ASK06-150T	2~6	19.05	28	112	150	4.00
ASK10-150T	2~10	27	35	112	150	4.60
-200T	2~10	27	40	162	200	4.80
ASK13-150T	3~13	33	42	112	150	4.90
-200T	3~13	33	47	162	200	5.20
ASK16-150T	3~16	40	47	112	150	5.10
-200T	3~16	40	53	162	200	5.50

Unit: mm



Tool Holder 刀桿



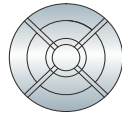
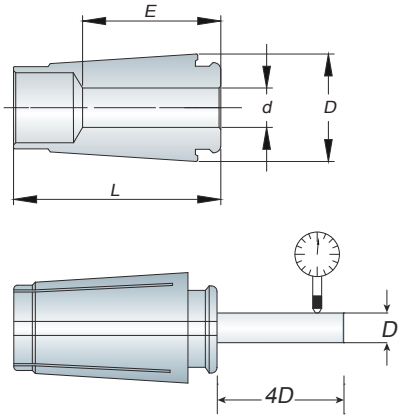
- Coolant Nut: refer to P.25
- 出水螺帽請參考 P.25

High Speed Collet

精密筒夾

SK

BT / NT
series



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	$\leq 5\mu$

SK06 (approx. 0.005kgs/pc)

Model No.	d	E	Range	D	L
SK06-02	2	12	2~1.75	10.4	25
SK06-2.25	2.25	12	2.25~2		
SK06-2.5	2.5	12	2.5~2.25		
SK06-2.75	2.75	12	2.75~2.5		
SK06-03	3	15	3~2.75		
SK06-3.175	3.175	15	3.175~2.5		
SK06-3.5	3.5	15	3.5~3		
SK06-04	4	16	4~3.5		
SK06-4.5	4.5	16	4.5~4		
SK06-05	5	21	5~4.5		
SK06-5.5	5.5	21	5.5~5		
SK06-06	6	25	6~5.5		

Unit: mm

SK10 (approx. 0.02kgs/pc)

Model No.	d	E	Range	D	L
SK10-02	2	15	2~1.75	15.6	31
SK10-2.25	2.25	15	2.25~2		
SK10-2.5	2.5	15	2.5~2.25		
SK10-2.75	2.75	15	2.75~2.5		
SK10-03	3	15	3~2.75		
SK10-3.175	3.175	15	3.175~2.7		
SK10-3.5	3.5	15	3.5~3		
SK10-04	4	20	4~3.5		
SK10-4.5	4.5	20	4.5~4		
SK10-05	5	20	5~4.5		
SK10-5.5	5.5	20	5.5~5		
SK10-06	6	24	6~5.5		
SK10-6.5	6.5	24	6.5~6		
SK10-07	7	24	7~6.5		
SK10-7.5	7.5	24	7.5~7		
SK10-08	8	24	8~7.5		
SK10-8.5	8.5	24	8.5~8		
SK10-09	9	24	9~8.5		
SK10-9.5	9.5	24	9.5~9		
SK10-10	10	30.5	10~9.5		

Unit: mm

SK13 (approx. 0.04kgs/pc)

Model No.	d	E	Range	D	L
SK13-03	3	18	3~2.75	20	39
SK13-3.175	3.175	18	3.175~2.7		
SK13-3.5	3.5	18	3.5~3		
SK13-04	4	20	4~3.5		
SK13-4.5	4.5	20	4.5~4		
SK13-05	5	20	5~4.5		
SK13-5.5	5.5	20	5.5~5		
SK13-06	6	24	6~5.5		
SK13-6.5	6.5	24	6.5~6		
SK13-07	7	26	7~6.5		
SK13-7.5	7.5	26	7.5~7		
SK13-08	8	28	8~7.5		
SK13-8.5	8.5	28	8.5~8		
SK13-09	9	30	9~8.5		
SK13-9.5	9.5	30	9.5~9		
SK13-10	10	30	10~9.5		
SK13-10.5	10.5	30	10.5~10		
SK13-11	11	30	11~10.5		
SK13-11.5	11.5	30	11.5~11		
SK13-12	12	39	12~11.5		
SK13-12.5	12.5	39	12.5~12		
SK13-13	13	39	13~12.5		

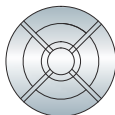
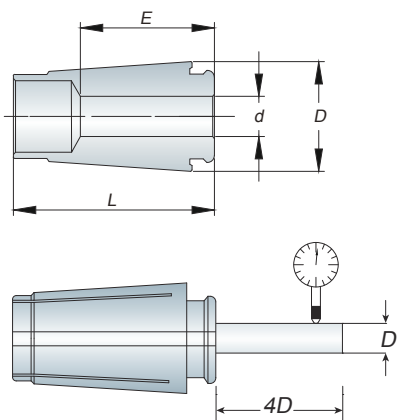
Unit: mm

SK16 (approx. 0.08kgs/pc)

Model No.	d	E	Range	D	L
SK16-03	3	18	3~2.75	24.6	45
SK16-3.175	3.175	18	3.175~2.7		
SK16-3.5	3.5	18	3.5~3		
SK16-04	4	20	4~3.5		
SK16-4.5	4.5	20	4.5~4		
SK16-05	5	22	5~4.5		
SK16-5.5	5.5	22	5.5~5		
SK16-06	6	25	6~5.5		
SK16-6.5	6.5	25	6.5~6		
SK16-07	7	28	7~6.5		
SK16-7.5	7.5	28	7.5~7		
SK16-08	8	34	8~7.5		
SK16-8.5	8.5	34	8.5~8		
SK16-09	9	34	9~8.5		
SK16-9.5	9.5	34	9.5~9		
SK16-10	10	34	10~9.5		
SK16-10.5	10.5	34	10.5~10		
SK16-11	11	34	11~10.5		
SK16-11.5	11.5	34	11.5~11		
SK16-12	12	34	12~11.5		
SK16-12.5	12.5	34	12.5~12		
SK16-13	13	34	13~12.5		
SK16-13.5	13.5	34	13.5~13		
SK16-14	14	34	14~13.5		
SK16-14.5	14.5	34	14.5~14		
SK16-15	15	34	15~14.5		
SK16-15.5	15.5	34	15.5~15		
SK16-16	16	45	16~15.5		

Unit: mm

- 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;
clamping range is 0.5mm if the inside diameter is over than 3mm.
- 請於訂購時註明 A 級或 AA 級 例：
SK10-06 AA or SK10E-04 AA
SK1;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



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	$\leq 5\mu$

- 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;
clamping range is 0.5mm if the inside diameter is over than 3mm.
- 請於訂購時註明 A 級或 AA 級
例：SK10-06 AA 或 SK10E-04 AA
SK1;SK10- 8PCS AA 或 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

SK20 (approx. 0.14kgs/pc)

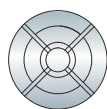
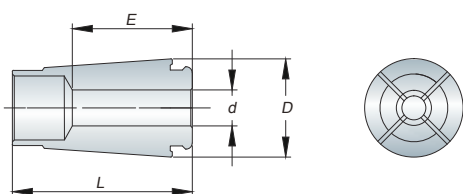
Model No.	d	E	Range	D	L
SK20-04	4	18	3.5~4	19.1	54.3
SK20-05	5	18	4.5~5		
SK20-06	6	24	5.5~6		
SK20-07	7	24	6.5~7		
SK20-08	8	32	7.5~8		
SK20-09	9	32	8.5~9		
SK20-10	10	38	9.5~10		
SK20-11	11	38	10.5~11		
SK20-12	12	38	11.5~12		
SK20-13	13	38	12.5~13		
SK20-14	14	38	13.5~14		
SK20-15	15	38	14.5~15		
SK20-16	16	39	15.5~16		
SK20-17	17	39	16.5~17		
SK20-18	18	39	17.5~18		
SK20-19	19	45	18.5~19		
SK20-20	20	50	19.5~20		

Unit: mm

SK25 (approx. 0.24kgs/pc)

Model No.	d	E	Range	D	L
SK25-06	6	24	5.5~6	35.7	57
SK25-08	8	32	7.5~8		
SK25-10	10	40	9.5~10		
SK25-12	12	42	11.5~12		
SK25-14	14	42	13.5~14		
SK25-16	16	44	15.5~16		
SK25-17	17	44	16.5~17		
SK25-18	18	44	17.5~18		
SK25-19	19	44	18.5~19		
SK25-20	20	46	19.5~20		
SK25-21	21	46	20.5~21		
SK25-22	22	46	21.5~22		
SK25-23	23	46	22.5~23		
SK25-24	24	46	23.5~24		
SK25-25	25	57	24.5~25		

Unit: mm



Collet - Coolant Type

止水型筒夾

Model No.	d	E	D	L
SK10-3CL	3	15	15.6	31
SK10-4CL	4	20	15.6	31
SK10-5CL	5	20	15.6	31
SK10-6CL	6	24	15.6	31
SK10-8CL	8	24	15.6	31
SK10-10CL	10	30.5	15.6	31

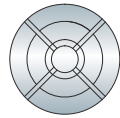
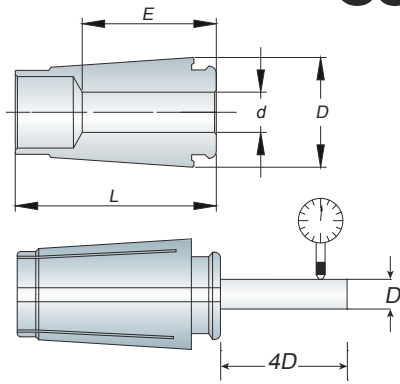
Unit: mm

Model No.	d	E	D	L
SK16-3CL	3	18	24.6	45
SK16-4CL	4	20	24.6	45
SK16-5CL	5	22	24.6	45
SK16-6CL	6	25	24.6	45
SK16-8CL	8	34	24.6	45
SK16-10CL	10	34	24.6	45
SK16-12CL	12	34	24.6	45
SK16-14CL	14	37	24.6	45
SK16-16CL	16	45	24.6	45

Unit: mm

Collet for End Mill

立銑專用筒夾



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	$\leq 5\mu$

SK

BT / NT series



SK06E (approx. 0.006kgs/pc)

Model No.	d	E	D	L
SK06E-03	3	15	10.4	25
SK06E-3.175	3.175	15		
SK06E-04	4	16		
SK06E-06	6	21		

Unit: mm

SK10E (approx. 0.02kgs/pc)

Model No.	d	E	D	L
SK10E-03	3	15	15.6	31
SK10E-3.175	3.175	15		
SK10E-04	4	20		
SK10E-05	5	20		
SK10E-06	6	24		
SK10E-08	8	24		
SK10E-10	10	30.5		

Unit: mm

SK13E (approx. 0.04kgs/pc)

Model No.	d	E	D	L
SK13E-03	3	18	20	39
SK13E-3.175	3.175	18		
SK13E-04	4	20		
SK13E-05	5	20		
SK13E-06	6	24		
SK13E-08	8	28		
SK13E-10	10	30		
SK13E-12	12	39		

Unit: mm

SK16E (approx. 0.08kgs/pc)

Model No.	d	E	D	L
SK16E-03	3	18	24.6	45
SK16E-3.175	3.175	18		
SK16E-04	4	20		
SK16E-05	5	22		
SK16E-06	6	25		
SK16E-08	8	34		
SK16E-10	10	34		
SK16E-12	12	34		
SK16E-16	16	45		

Unit: mm

SK20E (approx. 0.15kgs/pc)

Model No.	d	E	D	L
SK20E-04	4	18	29.1	54.3
SK20E-05	5	18		
SK20E-06	6	24		
SK20E-08	8	32		
SK20E-10	10	38		
SK20E-12	12	38		
SK20E-14	14	39		
SK20E-16	16	39		
SK20E-20	20	50		

Unit: mm

SK25E (approx. 0.25kgs/pc)

Model No.	d	E	D	L
SK25E-06	6	24	35.7	57
SK25E-08	8	32		
SK25E-10	10	40		
SK25E-12	12	42		
SK25E-14	14	42		
SK25E-16	16	44		
SK25E-18	18	44		
SK25E-20	20	46		
SK25E-22	22	46		
SK25E-24	24	46		
SK25E-25	25	57		
SK25E-25.4	25.4	57		

Unit: mm

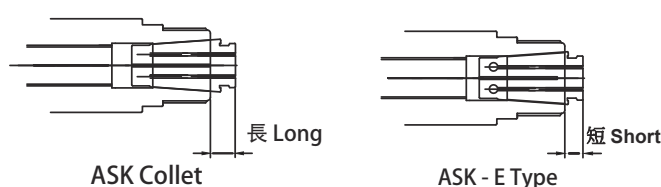
Inch Size

Model No.	d
SK06E	1/8, 3/16
SK10E	1/8, 3/16, 1/4, 5/16, 3/8
SK13E	1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2
SK16E	1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8
SK20E	1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 3/4
SK25E	3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, 1"

- When ordering, please specify the collet grade with A or AA.
For example: SK10-06 AA or SK10E-04 AA
SK10-8PCS A;SK10-8PCS AA or SK10E-6PCS AA
- The clamping range is 0.25mm if the inside diameter is less than 3mm;
clamping range is 0.5mm if the inside diameter is over than 3mm.
- SK-E collets special designed for end mill.

- 請於訂購時註明 A 級或 AA 級
例：SK10-06 AA or SK10E-04 AA
SK1;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
- 立銑刀專用筒夾

*** 比較 / Compare***

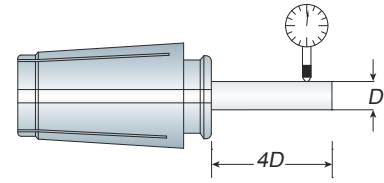


- Gripping power of SK-E collets is 20 % more than SK collets. Can Provide high stability performance during milling.
- SK-E 型筒夾，夾持力度較 SK 筒夾高 20%，使其能在銑削過程中達到更高的穩定性。

BT / NT series

SK

Collet Set 精密筒夾組



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

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

- When ordering, please specify the collet grade with A or AA.
For example: SK10-06 AA or SK10E-04 AA,
SK10-8PCS ASK10-8PCS AA or SK10E-6PCS AA
- 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
- 如需 SK 立銑刀專用筒夾組，可另詢



Collet Box

收納盒

Model No.	Qty.	Size	Suit
B-SK1021	21	18x10x5cm	SK06 / SK10
B-SK1628	28	27x18x7cm	SK13 / SK16

Unit: mm

- Using SK Collet Box to store the collet is beneficial to manage and keep the precision of collet.
- 使用 SK 木盒管理收納筒夾可有利於筒夾保管及長期維持筒夾精度



Collet Extractor

筒夾裝取器



Step 1



Step 2



- To put collet into the extractor
- 將筒夾裝於裝取器

- To put collet and extractor into the ASK nut, then push it to release the collet from the extractor
- 將筒夾置入螺帽定位後推出筒夾

Step 3



- Taking out the extractor
- 取回裝取器

- Each ASK06 holder attach 1pc collet extractor. Other sizes, must be ordered separately.
- 所有的 ASK06 刀桿均附一個裝取器，其餘尺寸，若有需要請另購

Wrench

扳手

ASK

BT / NT
series

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



Model No.	FIG.	D	Weight (kg)
WASK06C	1	19	0.08
WASK10C	1	25	0.12
WASK13C	1	33	0.18
WASK16AC	1	36.5	0.20
WASK16C	2	40	0.20
WASK20C	2	48	0.22
WASK25C	2	54	0.25

Unit: mm

C-Type Wrench

C 型扳手



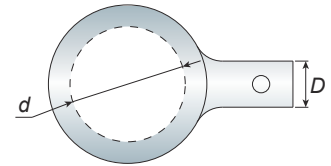
Fig. 1



Fig. 2

Wrench Spigot

扭力扳手轉接頭



Model No.	Type	d	D	Suit For	Weight (kg)
ASK06TC	ASK06	19.05	16	ASK06-NUT	0.18
ASK10TC	ASK10	27	16	ASK10-NUT	0.20
ASK13TC	ASK13	33	16	ASK13-NUT	0.23
ASK16TC	ASK16	40	16	ASK16-NUT	0.25
ASK20TC	ASK20	48	16	ASK20-NUT	0.30
ASK25TC	ASK25	54	16	ASK25-NUT	0.35

Unit: mm

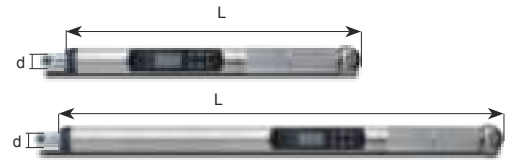


Spigot Interchangeable Digital Torque Wrench

數位顯示扭力扳手

Model No.	d	L	Nm	lbf-ft	lbf-in	Weight (kg)
WDG-252	16	373	10~135	7.4~99.6	89~1195	0.80
WDG-253	16	548	20~200	14.8~147	178~1780	1.05
WDG-254	16	748	34~340	25~250.9	301~3010	1.35

Unit: mm



Torque Wrench

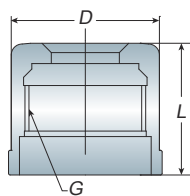
扭力扳手

Model No.	d	L	Nm	lbf-ft	lbf-in	Weight (kg)
OP-1710AKB	16	405	20~100	14.8~74	178~890	1.15
OP-1718AK	16	500	40~200	29.6~148	356~1780	1.38
OP-1720AK	16	575	60~320	44.4~236.8	534~2848	1.50

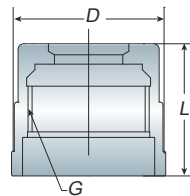
Unit: mm



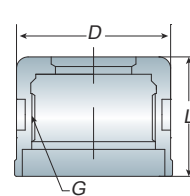
Nut
螺帽



高速螺帽
High Speed Nut



C 型螺帽 - Fig.1
C Type Nut - Fig.1
ASK06/10/13/16AC



C 型螺帽 - Fig.2
C Type Nut - Fig.2
ASK16/20/25



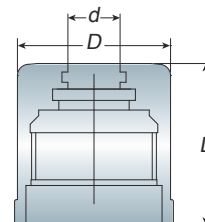
Fig.1

Fig.2



Coolant Nut

出水螺帽



High Speed Nut 高速螺帽	Model No.	D	L	G	Weight (kg)
	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

C Type Nut C 型螺帽	Model No.	FIG.	D	L	G	Weight (kg)
	ASK06C-NUT	1	19.05	21	M15x1.0P	0.02
	ASK10C-NUT	1	27	24	M22x1.0P	0.04
	ASK13C-NUT	1	33	27	M27x1.0P	0.08
	ASK16AC-NUT	1	40	27	M32x1.5P	0.08
	ASK16C-NUT	2	40	31	M32x1.5P	0.11
	ASK20C-NUT	2	48	30	M40x1.0P	0.15
ASK25C-NUT	2	54	37	M45x1.5P	0.18	

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)
ASK06-03CL	S-3	3	19.05	26	0.05
ASK06-04CL	S-4	4			
ASK06-05CL	S-5	5			
ASK06-06CL	S-6	6			
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			
ASK13-03CL	S-3	3	33	33	0.10
ASK13-04CL	S-4	4			
ASK13-05CL	S-5	5			
ASK13-06CL	S-6	6			
ASK13-07CL	S-7	7			
ASK13-08CL	S-8	8			
ASK13-09CL	S-9	9			
ASK13-10CL	S-10	10			
ASK13-11CL	S-11	11			
ASK13-12CL	S-12	12			
ASK13-13CL	S-13	13			
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			

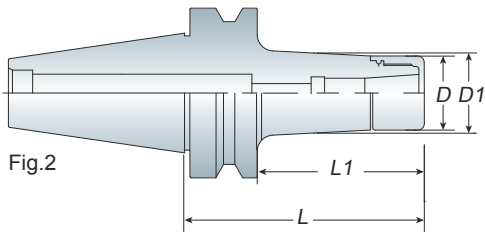
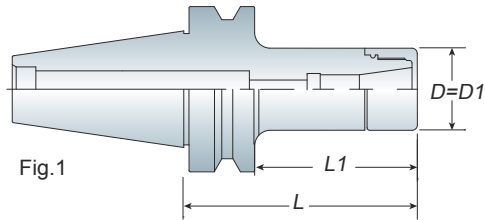
Unit: mm

High Speed Collet Chuck

高轉速高精度立銑刀本體

AVC

BT / NT
series



Through tools must use integer collet and coolant nut together. (refer to P.28)

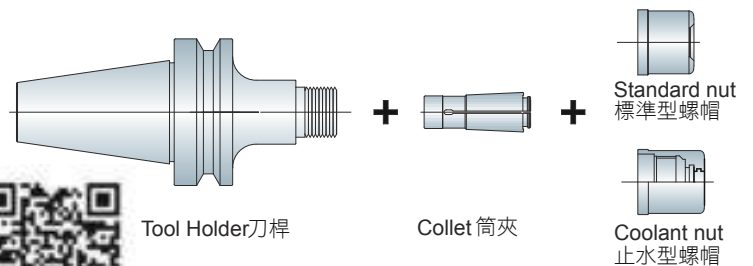
需搭配使用整數筒夾及止水螺帽才有刀尖出水效果 (請參考 P.28)

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 and Stop Screw must be ordered separately.
- Balancing: 30,000 r.p.m G2.5
- 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 扳手及止付螺絲為另購品
- 動平衡：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	38	0.60
-090	2	2~6	27	32	90	68	0.80
AVC10-060	1	3~10	33	33	60	38	0.70
-090	2	3~10	33	40	90	68	0.80
AVC12-060	1	3~12	40	40	60	38	0.70
-090	1	3~12	40	40	90	68	1.00
-120	1	3~12	40	40	120	98	1.30
BT40 AVC06-060	1	2~6	27	27	60	33	1.20
-090	2	2~6	27	31	90	63	1.35
-120	2	2~6	27	34	120	93	1.50
AVC10-060	1	3~10	33	33	60	33	1.30
-090	2	3~10	33	40	90	63	1.50
-120	2	3~10	33	44	120	93	1.70
AVC12-060	1	3~12	40	40	60	33	1.30
-090	2	3~12	40	44	90	63	1.60
-120	2	3~12	40	47	120	93	2.00
BT50 AVC06-105	2	2~6	27	32	105	67	4.10
-135	2	2~6	27	35	135	97	4.30
-165	2	2~6	27	38	165	127	4.50
AVC10-105	2	3~10	33	41	105	67	4.30
-135	2	3~10	33	44	135	97	4.50
-165	2	3~10	33	47	165	127	4.80
AVC12-105	2	3~12	40	44	105	67	4.30
-135	2	3~12	40	47	135	97	4.70
-165	2	3~12	40	51	165	127	5.10

Unit: mm



Tool Holder 刀桿

Collet 筒夾

Standard nut 標準型螺帽

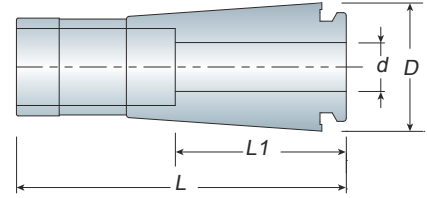
Coolant nut 止水型螺帽

- Coolant Nut: refer to P.28
- 出水螺帽請參考 P.28

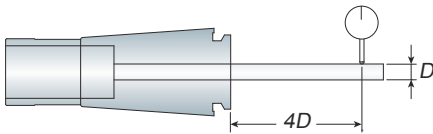


Collet

高精度立銑刀筒夾



- 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



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.	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		
AVC10-04	4		18		
AVC10-05	5	17	20	45.5	
AVC10-06	6		22		
AVC10-08	8		28		
AVC10-10	10		30		
AVC12-03	3		16		0.06
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

* Also has inch size for "d" could be produced by order

* d 尺寸另有英制規格可接受訂單生產

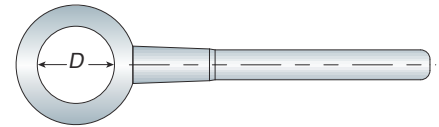
AVC06: 1/8, 3/16, 1/4

AVC10: 1/8, 3/16, 1/4, 5/16, 3/8

AVC12: 1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2

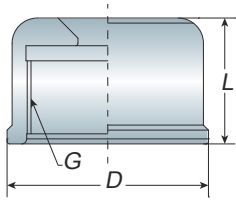
Bearing Wrench

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



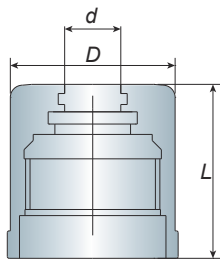
Nut 螺帽

AVC

BT / NT series

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

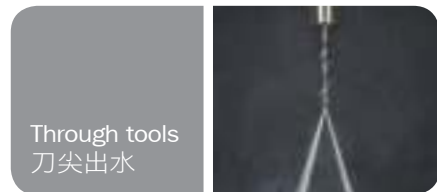


Coolant NUT

出水螺帽

Model No.	O-ring No.	d	D	L	Weight (kg)			
AVC06-03CL	S-3	3			0.07			
AVC06-04CL	S-4	4	27	26				
AVC06-05CL	S-5	5						
AVC06-06CL	S-6	6						
AVC10-03CL	S-3	3			33	32	0.10	
AVC10-04CL	S-4	4						
AVC10-05CL	S-5	5						
AVC10-06CL	S-6	6						
AVC10-07CL	S-7	7						
AVC10-08CL	S-8	8						
AVC10-09CL	S-9	9						
AVC10-10CL	S-10	10						
AVC12-03CL	S-3	3	40	33				0.12
AVC12-04CL	S-4	4						
AVC12-05CL	S-5	5						
AVC12-06CL	S-6	6						
AVC12-07CL	S-7	7						
AVC12-08CL	S-8	8						
AVC12-09CL	S-9	9						
AVC12-10CL	S-10	10						
AVC12-11CL	S-11	11						
AVC12-12CL	S-12	12						

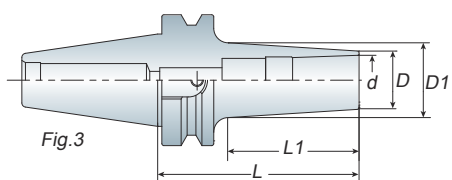
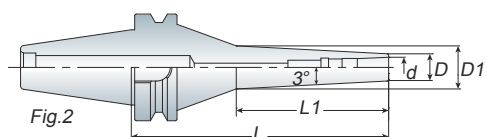
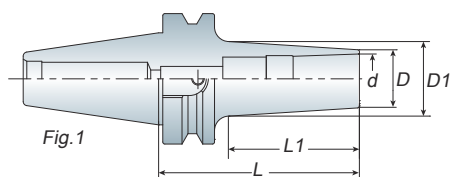
Unit: mm



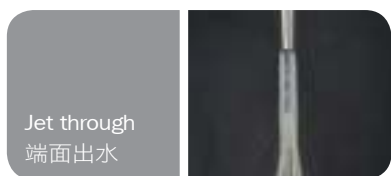
- Coolant Nut design with oil seal(O-ring). Each nut includes one O-ring.
- Complete coolant condition must to use with coolant tool.
- O-ring is consumable and it can be bought separately.
- 此款出水螺帽為 "O" 型密封螺帽，每一個螺帽含有一個 O 型環
- 必須搭配中心出水刀具才有完全出水效果
- O 型環為損耗品，可單獨購買

High Speed Collet Chuck

後拉式筒夾刀桿



- ADS06, ADS08: 4mm Hex-Wrench
- ADS12, ADS16: 6mm Hex-Wrench
- ADS06, ADS08 使用 4mm 六角扳手
- ADS12, ADS16 使用 6mm 六角扳手



- ADS10 / ADS12 / ADS16 CL type upon your request. For example: BT40 ADS12-090-CL
- ADS10 / 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

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.
- Balancing: 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
- 動平衡：30,000 r.p.m G2.5



P30-ADS Collet

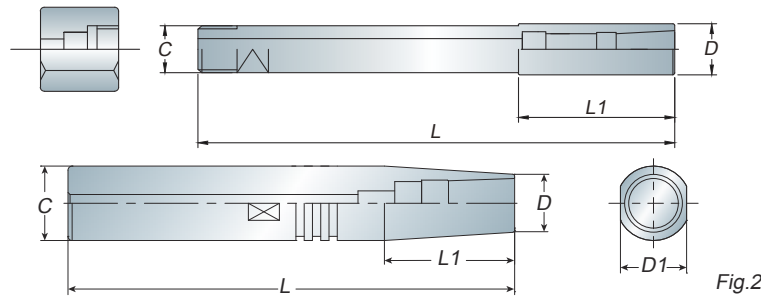


Model No.	FIG.	Clamping Range (d)	D	D1	L1	L	Weight (kg)
BT30 ADS06-060	2	2~6	13	15.5	26	60	0.50
-090	2	2~6	13	18	50	90	0.60
-120	1	2~6	13	22.7	88.6	120	0.70
ADS08-060	1	3~8	16	20.5	30	60	0.50
-075	1	3~8	16	22.5	45.5	75	0.60
ADS10-090	1	3~10	21	26	50.5	90	0.65
ADS12-080	1	3~12	23	31	52	80	0.65
-110	1	3~12	23	35	84	110	0.90
ADS16-080	1	5~16	28	33.8	55.2	80	0.80
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	58	120	1.30
-150	2	2~6	13	21	74	150	1.50
ADS08-065	1	3~8	16	20	29	65	1.10
-090	1	3~8	16	23	53.7	90	1.20
-120	1	3~8	16	27.5	81.8	120	1.30
-150	2	3~8	16	25.5	90	150	1.50
ADS10-090	1	3~10	21	26	53.5	90	1.20
-120	1	3~10	21	30	83.5	120	1.40
-150	1	3~10	21	33	111.6	150	1.70
ADS12-090	1	3~12	24	31	53.6	90	1.30
-120	1	3~12	24	34.5	83.6	120	1.70
-150	1	3~12	23	38	113.6	150	1.90
-200	1	3~12	24	41	163.6	200	2.10
ADS16-095	1	5~16	29	35	56.6	95	1.40
-125	1	5~16	29	38	88.5	125	1.60
BT50 ADS06-120	1	2~6	13	20.6	73.7	120	3.90
-150	1	2~6	13	24	102.5	150	4.00
-200	1	2~6	13	28.4	146.8	200	4.40
ADS08-095	1	3~8	16	23	47.7	95	3.90
-110	1	3~8	16	25	62.7	110	3.90
-200	1	3~8	16	37.1	150.4	200	4.40
ADS10-100	1	3~10	21	26.5	50.3	100	4.00
-150	1	3~10	21	31.5	100.3	150	4.20
-200	1	3~10	21	37	149.4	200	4.50
ADS12-100	1	3~12	24	30	43	100	4.10
-150	1	3~12	24	36	93	150	4.40
-200	1	3~12	24	43.2	151	200	5.00
ADS16-100	1	5~16	29	34.5	50.6	100	4.00
-125	1	5~16	29	37	75.6	150	4.20
-200	1	5~16	29	44.4	146.8	200	5.00
BT40 ADS12D-075	3	3~12	30	38.2	39	75	1.60
-090	3	3~12	30	41	54	90	1.80
ADS16D-075	3	5~16	40	49	42.6	75	1.70
-090	3	5~16	40	46.5	57.6	90	1.90

Unit: mm

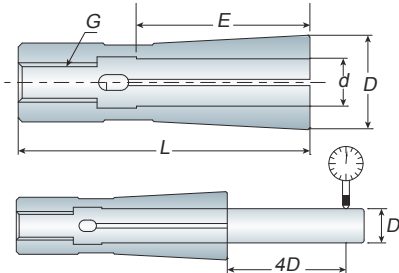
Straight Shank

直柄後拉式夾頭刀桿



Model No.	FIG.	Clamping Range	C	D	D1	L1	L	Weight (kg)
C12 ADS06-120	1	2~6	12	13	10	40	120	0.20
-150	1	2~6	12	13	10	40	150	0.20
C16 ADS06-150	2	2~6	16	13	14	38	150	0.20
-200	2	2~6	16	13	14	38	200	0.25
C20 ADS06-150	2	2~6	20	13	17	70	150	0.30
-200	2	2~6	20	13	17	70	200	0.40
ADS08-150	2	3~8	20	16	17	50	150	0.30
-200	2	3~8	20	16	17	100	200	0.40
ADS10-200	2	3~10	20	19	17	50	200	0.50
C25 ADS08-150	2	3~8	25	16	22	50	150	0.45
-200	2	3~8	25	16	22	100	200	0.60
ADS12-200	2	3~12	25	18	22	50	200	0.80
-250	2	3~12	25	18	22	50	250	1.05

Unit: mm



Collet

後拉筒夾

Model No.	d	D	L	E	G	Weight (kg)	Model No.	d	D	L	E	G	Weight (kg)
ADS06-02	2						ADS12-03	3					
ADS06-03	3						ADS12-3.175	3.175					
ADS06-3.175	3.175	9.6	36	22	M5x0.8P	0.01	ADS12-04	4					
ADS06-04	4						ADS12-05	5					
ADS06-05	5						ADS12-06	6					
ADS06-06	6						ADS12-07	7	18	61	41	M8x1.25P	0.07
ADS08-03	3						ADS12-08	8					
ADS08-3.175	3.175						ADS12-09	9					
ADS08-04	4						ADS12-10	10					
ADS08-05	5	12	37	22	M5x0.8P	0.02	ADS12-11	11					
ADS08-06	6						ADS12-12	12					
ADS08-07	7						ADS16-05	5					
ADS08-08	8						ADS16-06	6					
ADS10-03	3						ADS16-07	7					
ADS10-04	4						ADS16-08	8					
ADS10-05	5						ADS16-09	9					
ADS10-06	6	15	45	27	M6x1.0P	0.05	ADS16-10	10	24	63	45	M8x1.25P	0.13
ADS10-07	7						ADS16-11	11					
ADS10-08	8						ADS16-12	12					
ADS10-09	9						ADS16-13	13					
ADS10-10	10						ADS16-14	14					
							ADS16-15	15					
							ADS16-16	16					

Unit: mm

Unit: mm

ADS

BT / NT series



Fig.1



Fig.2

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

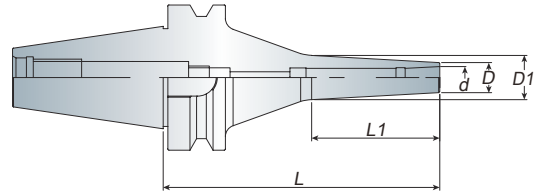


筒夾等級 Collet Grade	跳動精度 / Runout - Max μ 4 倍直徑前 - 4xD
A 級	$\leq 10\mu$
AA 級	$\leq 5\mu$

- 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
- ADS06 has other size for choice. Ex.1, 1.1, 1.2, 1.3, 1.4 . . . 5.9, 6.0
- Also has inch size for "d" could be produced by order
- ADS06 另有尺寸 1, 1.1, 1.2, 1.3, 1.4 . . . 5.9, 6.0 可供選擇
- d 尺寸另有英制規格可接受訂單生產

High Speed Collet Chuck

後拉式筒夾刀桿 - 筒夾加長型



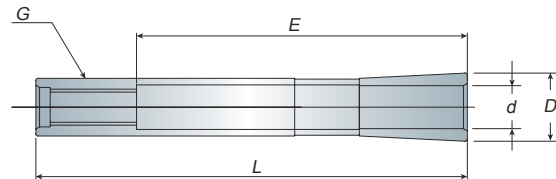
- Long type collet, the inside length is 46mm.
- Holder is suitable for high-speed and high precision cutting. Tool holder designed without nut could reduce cutting vibration.
- Wrench is attached for each LDS holder.
- Balancing: 30,000 r.p.m G2.5
- 長筒夾設計，內徑可伸長 46mm
- 刀桿適用於高速精密加工。無螺帽設計，降低加工時物件干涉
- 每支刀桿均附 1 支扳手
- 動平衡：30,000 r.p.m G2.5

Model No.	Clamping Range (d)	D	D1	L1	L	Weight (kg)
BT30 LDS06-090	2~6	13	18	50	90	0.50
BT40 LDS06-090	2~6	13	17.5	43	90	0.60
-120	2~6	13	19.5	58	120	0.70
-150	2~6	13	21	74	150	0.50
BT50 LDS06-120	2~6	13	20.6	73.7	120	0.60
-150	2~6	13	23.8	102.5	150	0.65
-200	2~6	13	28.4	146.8	200	0.65

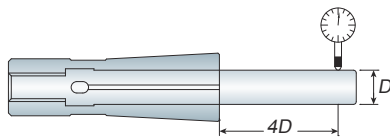
Unit: mm

Collet

後拉筒夾 - 加長型



- When ordering, please specify the collet grade with A or AA.
- 請於訂購時註明 A 級或 AA 級

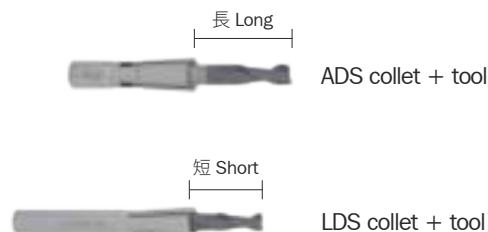


Model No.	d	D	L	E	G	Weight (kg)
LDS06-02	2	9.6	60	46	M5x0.8P	0.02
LDS06-03	3	9.6	60	46	M5x0.8P	0.02
LDS06-3.175	3.175	9.6	60	46	M5x0.8P	0.02
LDS06-04	4	9.6	60	46	M5x0.8P	0.02
LDS06-05	5	9.6	60	46	M5x0.8P	0.02
LDS06-06	6	9.6	60	46	M5x0.8P	0.02

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	$\leq 5\mu$

*** 比較 / Compare***



Shrink Chuck

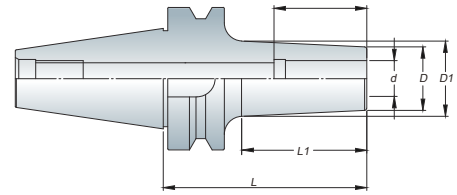
燒結式刀桿

ASR

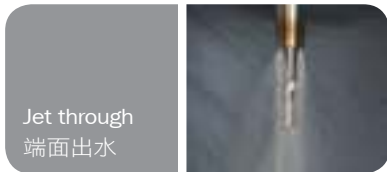
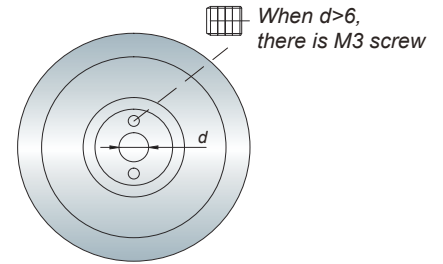
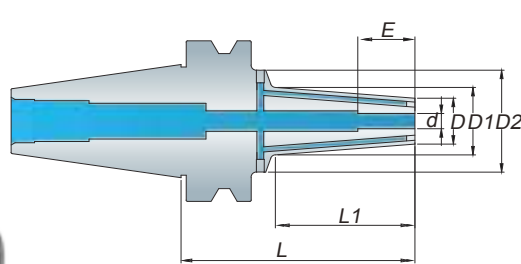
BT / NT series

Model No.	d	D	D1	L	L1	E	Weight (kg)
BT30 ASR04-075	4	10	15	75	44	22	0.55
ASR05-075	5	10	15	75	44	24	0.55
ASR06-075	6	14	19	75	47	26	0.55
ASR08-075	8	18	23	75	47	26	0.60
ASR10-075	10	22	27	75	47	32	0.60
ASR12-075	12	24	29	75	47	36	0.65
ASR16-075	16	28	33	75	48	38	0.70
BT40 ASR04-090	4	10	16	90	55	22	1.20
-120	4	10	19	120	85	22	1.30
ASR05-090	5	10	16	90	55	24	1.20
-120	5	10	19	120	85	24	1.30
ASR06-090	6	14	20	90	54	26	1.20
-120	6	14	23	120	84	26	1.30
ASR08-090	8	18	24	90	54	26	1.20
-120	8	18	27	120	84	26	1.30
ASR10-090	10	22	28	90	54	32	1.30
-120	10	22	31	120	84	32	1.45
ASR12-090	12	24	30	90	54	36	1.30
-120	12	24	33	120	84	36	1.50
ASR16-090	16	28	34	90	54	38	1.30
-120	16	28	37	120	84	38	1.55
ASR20-090	20	34	41	90	65	42	1.50
-120	20	34	42	120	84	42	1.75
ASR25-090	25	44	51	90	68	48	1.50
-120	25	44	54	120	90	48	1.80
ASR32-090	32	44	51	90	68	50	1.55
-120	32	44	54	120	90	50	1.85
BT50 ASR06-105	6	14	21	105	61	26	3.70
-160	6	14	35	160	113	26	3.90
ASR08-105	8	18	25	105	61	26	3.80
-160	8	18	30	160	113	26	4.00
ASR10-105	10	22	29	105	61	32	4.20
-160	10	22	34	160	113	32	4.50
ASR12-105	12	24	31	105	61	36	4.40
-160	12	24	36	160	113	36	4.80
ASR16-105	16	28	35	105	61	38	4.40
-160	16	28	40	160	113	38	4.90
ASR20-105	20	34	41	105	61	42	4.70
-160	20	34	45	160	113	42	5.20
ASR25-105	25	44	51	105	61	48	4.70
-160	25	44	56	160	113	48	5.30
ASR32-105	32	44	51	105	61	50	5.00
-160	32	44	56	160	113	50	5.60

Unit: mm



- Heater specification => refer to P.35
- Tools are restricted by material of h6 carbide tool.
- 刀桿加熱器規格請參考 P.35
- 刀具限用 h6 鎢鋼刀具



Jet through
端面出水

- Heater specification => refer to P.35
- Tools are restricted by material of h6 carbide tool.
- 刀桿加熱器規格請參考 P.35
- 刀具限用 h6 鎢鋼刀具

Model No.	d	D	D1	D2	L	L1	E	Weight (kg)
BT40 ASR04-090-CL	4	18	27	40	90	-	22	1.20
-120-CL	4	18	27	40	120	-	22	1.50
-160-CL	4	18	27	40	160	78	22	1.80
ASR06-090-CL	6	21	30	40	90	-	26	1.20
-120-CL	6	21	30	40	120	-	26	1.50
-160-CL	6	21	30	40	160	78	26	1.80
ASR08-090-CL	8	21	30	40	90	-	26	1.20
-120-CL	8	21	30	40	120	-	26	1.50
-160-CL	8	21	30	40	160	78	26	1.80
ASR10-090-CL	10	24	33	40	90	-	32	1.30
-120-CL	10	24	33	40	120	-	32	1.60
-160-CL	10	24	33	40	160	78	32	1.90
ASR12-090-CL	12	24	33	40	90	-	36	1.30
-120-CL	12	24	33	40	120	-	36	1.60
-160-CL	12	24	33	40	160	78	36	1.90
ASR16-090-CL	16	27	36	40	90	-	38	1.30
-120-CL	16	27	36	40	120	-	38	1.60
-160-CL	16	27	36	40	160	78	38	1.90
BT50 ASR06-100-CL	6	21	30	40	100	53	26	3.80
-120-CL	6	21	30	40	120	53	26	3.90
-160-CL	6	21	30	40	160	53	26	4.20
ASR08-100-CL	8	21	30	40	100	53	26	3.80
-120-CL	8	21	30	40	120	53	26	3.90
-160-CL	8	21	30	40	160	53	26	4.20
ASR10-100-CL	10	24	33	40	100	53	32	3.90
-120-CL	10	24	33	40	120	53	32	4.00
-160-CL	10	24	33	40	160	53	32	4.30
ASR12-100-CL	12	24	33	40	100	53	36	3.90
-120-CL	12	24	33	40	120	53	36	4.00
-160-CL	12	24	33	40	160	53	36	4.30
ASR16-100-CL	16	27	36	40	100	53	38	3.90
-120-CL	16	27	36	40	120	53	38	4.00
-160-CL	16	27	36	40	160	53	38	4.30
ASR20-100-CL	20	33	42	40	100	53	42	4.00
-120-CL	20	33	42	40	120	53	42	4.10
-160-CL	20	33	42	40	160	53	42	4.40

Unit: mm

Curved Type

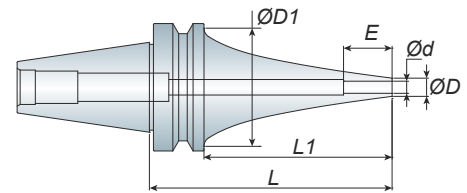
燒結式刀桿 - 曲線型

ASR

BT / NT series

Model No.	d	D	D1	L	L1	E	Weight (kg)	
BT30 ASR04-090S/120S	4	7	34	90/120	68/98	12	2.70/6.50	
ASR06-090S/120S	6	9		90/120	68/98	18	2.30/5.50	
ASR08-090S	8	11		90	68	24	2.20	
ASR10-090S	10	13		90	68	30	2.10	
BT40 ASR04-090S/120S	4	7	53	90/120	63/93	12	1.00/1.30	
150S/180S	4	7		150/180	123/153	12	1.60/1.90	
ASR06-090S/120S	6	9		90/120	63/93	18	1.00/1.30	
150S/180S	6	9		150/180	123/153	18	1.60/1.90	
ASR08-090S/120S	8	11		90/120	63/93	24	1.05/1.30	
150S/180S	8	11		150/180	123/153	24	1.60/1.90	
ASR10-090S/120S	10	13		90/120	63/93	30	1.30/1.50	
150S/180S	10	13		150/180	123/153	30	1.70/1.95	
ASR12-090S/120S	12	15		90/120	63/93	30	1.30/1.50	
150S/180S	12	15		150/180	123/153	30	1.70/2.00	
BT50 ASR04-165S/200S	4	7		85	165/200	127	12	5.30/5.70
ASR06-165S/200S	6	9		85	165/200	127	18	5.20/5.60
ASR08-165S/200S	8	11	85	165/200	127	24	4.90/5.20	
ASR10-165S/200S	10	13	85	165/200	127	30	4.90/5.10	
ASR12-165S/200S	12	15	84	165/200	127	30	4.90/5.10	

Unit: mm



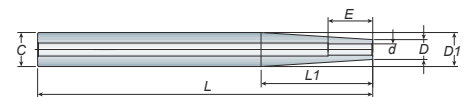
- Heater specification => refer to P.35
- Tools are restricted by material of h6 carbide tool.
- 刀桿加熱器規格請參考 P.35
- 刀具限用 h6 鎢鋼刀具

Straight shank

直柄燒結式刀桿

Model No.	C	d	D	D1	L	L1	E	Weight (kg)
C12 ASR04-120	12	4	7	11.6	120	40	16	0.20
ASR06-120	12	6	10		120	40	24	0.20
C16 ASR04-150	16	4	7	15.5	150	67	12	0.10
ASR06-150	16	6	9		150	70	18	0.10
ASR08-115	16	8	11		115	50	24	0.10
C20 ASR04-200	20	4	7	19.5	200	97	12	0.30
ASR06-175	20	6	9		175	105	18	0.30
ASR08-175	20	8	11		175	85	24	0.30
ASR10-150	20	10	13		150	70	30	0.20
ASR12-120	20	12	15		120	50	30	0.20
C25 ASR06-230	25	6	9	24.5	230	97	18	0.50
ASR08-230	25	8	11		230	97	24	0.60
ASR10-255	25	10	13		255	135	30	0.70
ASR12-230	25	12	15		230	110	30	0.60

Unit: mm



- Heater specification => refer to P.35
- Tools are restricted by material of h6 carbide tool.
- 刀桿加熱器規格請參考 P.35
- 刀具限用 h6 鎢鋼刀具

Model No.	GTS-306 LUXE
Electric current supply 電壓	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	13.50 kgs
Holder Support 刀把形式	BT30/BT40/BT50/HSK50/HSK63 (optional 選配)



Model No.	GTS9000M / GTS9000L
Electric current supply 電壓	3 phase 220VAC (50/60Hz)
Output current 電流	27A
Output power 消耗電力	10KW
Size 尺寸	380mm(W)×405mm(D)×655mm(H)
Weight 重量	15.10kgs
Induction Heating head 加熱頭內徑	Ø35mm / Ø50mm
Holder Support 刀把形式	BT30/BT40/BT50/HSK50/HSK63 (optional 選配)

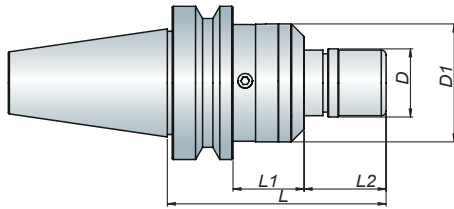


Zero Adjustable Precision Holder

零點可調精度刀桿

QSK

BT / NT series



Model No.	D	D1	L	L1	L2	Collet	Weight (kg)	Weight (kg)
BT30 QSK10-090	27	48.5	90	29.3	33.7	SK10	WASK10	1.30
QSK16-090	40	59.5	90	29.3	33.7	SK16	WASK16	1.50
BT40 QSK10-090	27	48.5	90	29.3	33.7	SK10	WASK10	1.50
QSK16-090	40	59.5	90	29.3	33.7	SK16	WASK16	1.80
BT50 QSK10-105	27	48.5	105	29.3	48.7	SK10	WASK10	4.50
QSK16-105	40	59.5	105	29.3	48.7	SK16	WASK16	5.00

Unit: mm

Features

- Stable runout, more smooth surface for working material.
- Simple design, easy to adjust runout.
- Compensate for increased runout by machine spindle bearing aging.
- Extending tools lifetime.
- Reamer ONLY.
- 實現孔徑加工的穩定性，降低表面粗糙度
- 結構簡單並能快速在機台上直接調整刀尖跳動精度
- 簡單有效的修正因機台主軸老化而引起的跳動偏擺問題
- 刀具壽命延長
- 絞刀專用



- 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



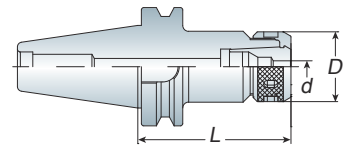
- Wrench must be ordered separately.
- OZ 扳手為另購品



P38- Wrench P38- OZ Collet P38- OZ Nut

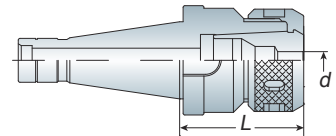
Collet Chuck

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

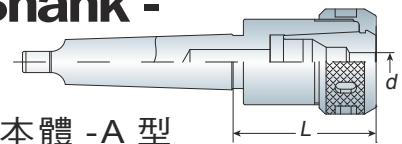


Model No.	d	L	Collet Type	Draw Bolt	Weight (kg)
NT30 OZ25-070	3~25	70	OZ25	1/2"-12	1.10
OZ32-100	6~32	100	OZ32	M12x1.75P	1.60
NT40 OZ25-070	3~25	70	OZ25	5/8"-11	1.60
OZ32-080	6~32	80	OZ32	M16x2.0P	2.20
NT50 OZ25-080	3~25	80	OZ25	1"-8	3.80
OZ32-080	6~32	80	OZ32	M24x3.0P	4.30

Unit: mm

Morse Taper Shank - Tang Type

莫氏錐度重切削筒夾本體 -A 型

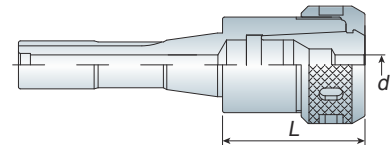


Model No.	d	L	Collet Type	Weight (kg)
MTA5 OZ25-075	3~25	75	OZ25	2.80
OZ32-075	6~32	75	OZ32	3.00

Unit: mm

R8 Taper Shank

R8 重切削筒夾本體



Model No.	d	L	Collet Type	Weight (kg)
R8 OZ25	3~25	70	OZ25	1.25
OZ32	6~32	87	OZ32	2.20

Unit: mm

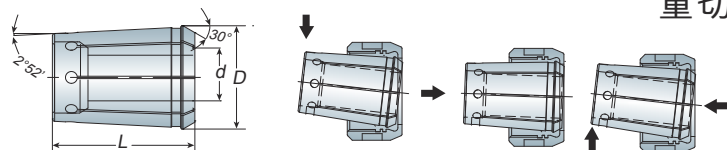
Collet

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	35.05	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	35.05	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



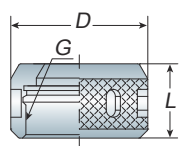
Collet Set

重切削筒夾組

OZ25		Model No.	Specification	PCS/SET	Weight (kg)
Metric Size 公制	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)
Metric Size 公制	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		Model No.	Specification	PCS/SET	Weight (kg)
Metric Size 公制	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,		15PCS/SET	6.50
Inch Size 英制		Model No.	Specification	PCS/SET	Weight (kg)
Metric Size 公制	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

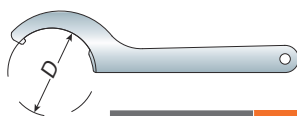


Nut

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



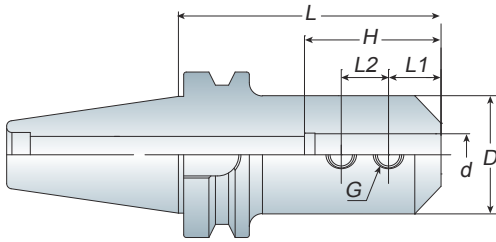
Wrench

重切削扳手

Model No.	D	Suit For	Weight (kg)
WOZ25	60	BN25	0.30
WOZ32	72~84	BN32	0.40

Unit: mm





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	18	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	30	22	80	M16	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

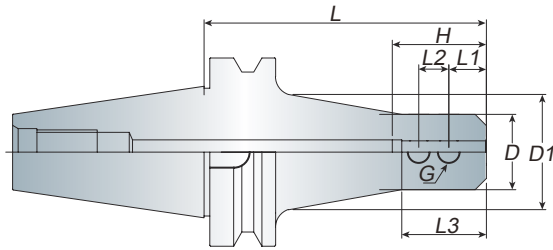
Unit: mm

End Mill Holder - T Type

側固端銑刀桿 -T 型

SLA

BT / NT
series



Features

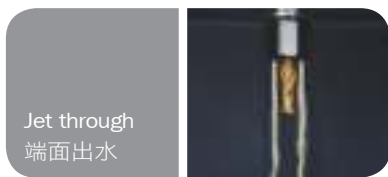
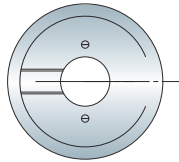
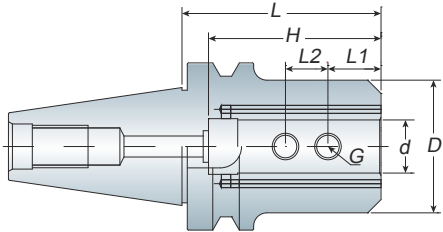
- For straight shank end mill.
- The holder's shank is with the taper design to make it will the better rigidity. End mill holder comes equipped with set screws.
- End mill is held by two set screws.
- End mill holder comes equipped with set screws.
- 適用於夾持直柄銑刀，可用在一般銑削加工
- 刀柄本身錐度型設計，使其擁有較佳的剛性
- 夾持銑刀之固定螺絲共 2 個
- 刀桿本身已裝配固定螺絲

Model No.	d	D	D1	L	L1	L2	L3	H	G	Weight (kg)
BT50 SLA06-150T	6	25	30	150	12	10	35	28	M6	3.90
-200T	6	25	32	200	12	10	35	28	M6	4.20
SLA08-150T	8	28	33	150	14	12	40	36	M8	3.90
-200T	8	28	35	200	14	12	40	36	M8	4.30
SLA10-150T	10	35	40	150	15	14	40	40	M10	4.30
-200T	10	35	42	200	15	14	40	40	M10	4.70
SLA12-150T	12	40	45	150	20	16	45	45	M10	4.50
-200T	12	40	47	220	20	16	45	45	M10	5.10
SLA16-150T	16	45	50	150	22	18	50	55	M10	4.70
-200T	16	45	52	220	22	18	50	55	M10	5.40
SLA20-150T	20	52	57	150	25	20	55	60	M12	5.10
-200T	20	52	57	200	25	20	55	60	M12	5.90
SLA25-150T	25	55	60	150	25	22	60	65	M12	5.40
-200T	25	55	60	200	25	22	60	65	M12	6.40
-250T	25	55	62	250	25	22	60	65	M12	7.50
SLA32-150T	32	60	65	150	30	22	65	70	M16	5.60
-200T	32	60	65	200	30	22	65	70	M16	6.70
-250T	32	60	67	250	30	22	65	70	M16	8.10

Unit: mm

End Mill Holder - Jet Through Coolant Type

側固端銑刀桿 - 端面出水型



Jet through
端面出水

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

End Mill Holder

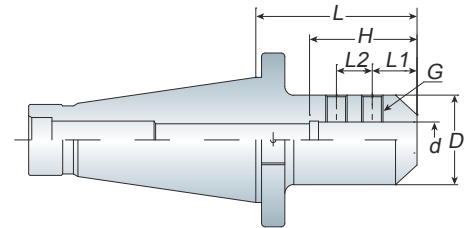
側固端銑刀桿

SLA

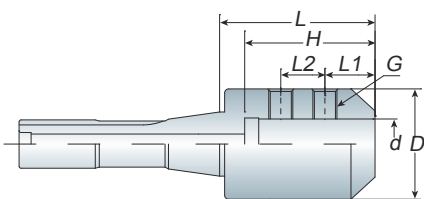
BT / NT series

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	15	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



- 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



R8 Taper Shank

R8 側固端銑刀桿

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



- 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

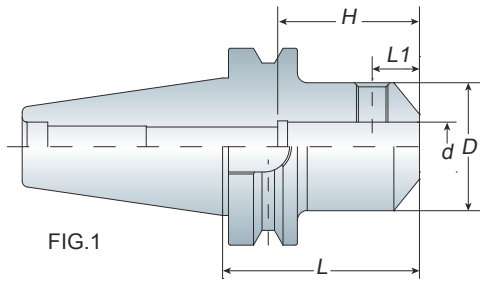


FIG.1

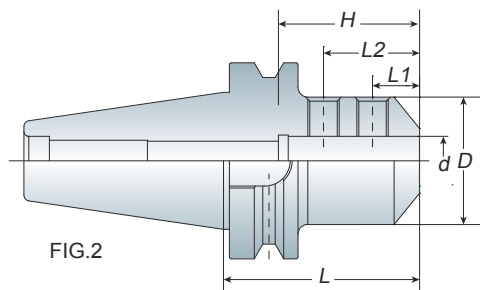


FIG.2



Features

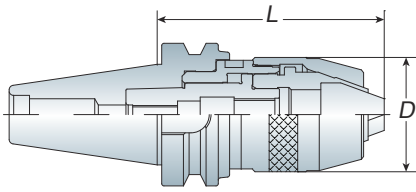
- For straight shank end mill.
- End mill is held by one (FIG.1) or two (FIG.2) set screws.
- End mill holder comes equipped with set screws.
- 適用於夾持直柄銑刀，可用在一般銑削加工
- 夾持銑刀之固定螺絲分為一個 (FIG.1) 或兩個 (FIG.2)
- 刀桿本身已裝配固定螺絲

Model No.	FIG.	d	D	L	L1	L2	H	Weight (kg)
BT30 EM06-050	1	6	25	50	18	-	27	0.55
EM08-050	1	8	28	50	18	-	32	0.60
EM10-050	1	10	35	50	20	-	35	0.70
EM12-050	1	12	42	50	22.5	-	42	0.75
EM16-063	1	16	48	63	24	-	50	0.90
EM20-070	1	20	52	70	25	-	60	1.10
BT40 EM06-050	1	6	25	50	18	-	28	1.15
EM08-050	1	8	28	50	18	-	32	1.15
EM10-063	1	10	35	63	20	-	35	1.30
EM12-063	1	12	42	63	22.5	-	42	1.40
EM16-063	1	16	48	63	24	-	50	1.40
EM20-063	1	20	52	63	25	-	60	1.45
EM25-090	2	25	65	90	24	49	65	2.20
EM32-100	2	32	72	100	24	52	70	2.70
BT50 EM06-063	1	6	25	63	18	-	28	3.90
EM08-063	1	8	28	63	18	-	32	3.90
EM10-063	1	10	35	63	20	-	35	4.00
EM12-080	1	12	42	80	22.5	-	42	4.20
EM16-080	1	16	48	80	24	-	50	4.30
EM20-080	1	20	52	80	25	-	60	4.35
EM25-100	2	25	65	100	24	49	65	4.90
EM32-105	2	32	72	105	24	52	72	5.30
EM40-110	2	40	90	110	30	62	80	5.70

Unit: mm

Drill Chuck Holder

直截式鑽夾頭刀桿



Model No.	Clamping Range	D	L		Weight (kg)
			Min.	Max.	
BT30 APU08-080	0.3~8	37.5	75	82	1.00
APU13-100	0.3~13	50.5	97	104.5	1.50
BT40 APU08-085	0.3~8	37.5	79	86.5	1.50
APU13-110	0.3~13	50.5	98	109	2.00
APU16-130	3~16	57	116	130	2.60
BT50 APU08-095	0.3~8	37.5	90	97.5	4.20
APU13-120	0.3~13	50.5	109	120	4.70
-180	0.3~13	50.5	169	180	5.80
APU16-130	3~16	57	116	130	5.10
-190	3~16	57	176	190	6.20

Unit: mm

APU

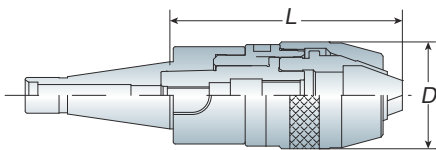
BT / NT series



- 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

直截式鑽夾頭刀桿



Model No.	Clamping Range	D	L		Draw Bolt	Weight (kg)
			Min.	Max.		
NT30 APU08-080	0.3~8	37.5	75	82	1/2"-12	0.90
APU13-100	0.3~13	50.5	94	104.5	M12x1.75P	1.65
NT40 APU08-085	0.3~8	37.5	79	86.5	5/8"-11 M16x2.0P	1.50
APU13-110	0.3~13	50.5	98	109		2.10
APU16-130	3~16	57	116	130		2.50
NT50 APU08-095	0.3~8	37.5	90	97.5	1"-8 M24x3.0P	3.80
APU13-120	0.3~13	50.5	109	120		4.10
-180	0.3~13	50.5	169	180		4.80
APU16-130	3~16	57	116	130		4.50
-190	3~16	57	176	190		5.80

Unit: mm



- 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

BT / NT
series

APU

Morse Taper Shank

莫氏錐度鑽夾頭刀桿



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	37.5	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	50.5	12806	1.25
MTA3 APU13	12602	13S	0.3~13	1/64~1/2	MTA3	180	81	50.5	12806	1.40
MTA4 APU13	12603	13S	0.3~13	1/64~1/2	MTA4	206	81	50.5	12806	1.70
MTA3 APU16	12604	16S	3~16	1/8~5/8	MTA3	186	85	57	12808	1.70
MTA4 APU16	12605	16S	3~16	1/8~5/8	MTA4	212	85	57	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	37.5	12802	0.70
C20 APU13	12607	13S	0.3~13	1/64~1/2	C20	141	81	50.5	12806	1.30
C25 APU13	12608	13S	0.3~13	1/64~1/2	C25	161	81	50.5	12806	1.40
C32 APU13	12609	13S	0.3~13	1/64~1/2	C32	162	81	50.5	12806	1.65
C20 APU16	12610	16S	3~16	1/8~5/8	C20	145	85	57	12808	1.55
C25 APU16	12611	16S	3~16	1/8~5/8	C25	165	85	57	12808	1.70
C32 APU16	12612	16S	3~16	1/8~5/8	C32	167	85	57	12808	1.90

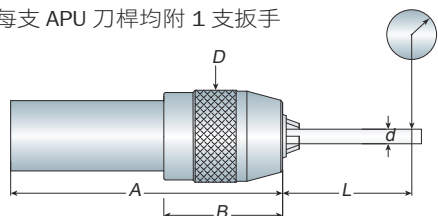
Unit: mm



R8 Taper Shank

R8 鑽夾頭刀桿

- 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



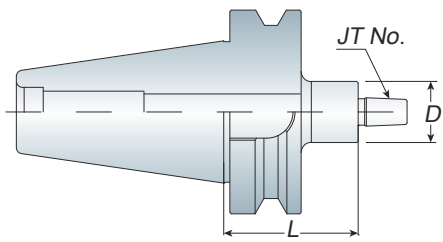
Model No.	Code No.	Size Type	Clamping Range		Taper Type	A	B	D	Wrench	Weight (kg)
			mm	inch						
R8 APU13	12613	13S	0.3~13	1/64~1/2	R8	182	81	50.5	12806	1.50
R8 APU16	12614	16S	3~16	1/8~5/8	R8	188	85	57	12808	1.80

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	
8S	6	35	0.05
	8	50	
10S	5	35	0.05
	6	35	
13S	10	58	0.05
	6	55	
16S	10	55	0.05
	13	75	
16S	6	55	0.05
	10	55	
	16	80	

Unit: mm



Drill Chuck Holder

鑽夾頭刀桿

JTA

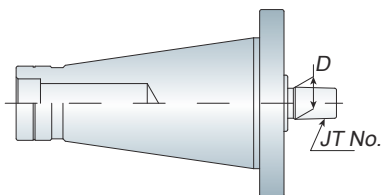
BT / NT series

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

Unit: mm



- 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	Draw Bolt	Weight (kg)
NT30 JTA1	JTA1	9.754	1/2"-12 M12x1.75P	0.50
	JTA2	13.94		0.50
	JTA6	17.17		0.50
NT40 JTA1	JTA1	9.754	5/8"-11 M16x2.0P	1.00
	JTA2	13.94		1.00
	JTA6	17.17		1.00
NT50 JTA1	JTA1	9.754	1"-8 M24x3.0P	2.90
	JTA2	13.94		3.00
	JTA6	17.17		3.00

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



P47/48- Keyless Drill Mount



- 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。



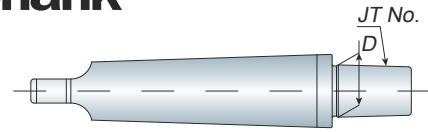
P47/48- Keyless Drill Mount



- 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

Morse Taper Shank

莫氏錐度鑽夾頭刀桿

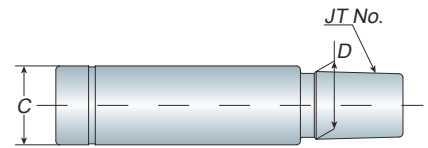


Model No.	JT.No.	D	Weight (kg)
MTA2 JTA6	6	17-7	0.30
MTA3 JTA6	6	17-7	0.35
MTA4 JTA6	6	17-7	0.70
MTA5 JTA6	6	17-7	1.65

Unit: mm

Straight Shank

直柄鑽夾頭刀桿

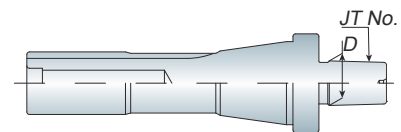


Model No.	JT.No.	C	D	Weight (kg)
C20 JTA1	1	20	9.754	0.15
JTA2	2	20	13.94	0.20
JTA6	6	20	17.17	0.30
C25 JTA1	1	25	9.754	0.25
JTA2	2	25	13.94	0.30
JTA6	6	25	17.17	0.35

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

#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	50.5	1.00
16S-JT6	12205-1	16S	3~16	1/8~5/8	JT6	97	110	57	1.35

Unit: mm

#123 Keyless Drill Mount - Heavy Duty Type

#123 鑽夾頭重型系列

JTA

BT / NT series

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	50.5	0.95
16H-JT6	12305-1	16H	3~16	1/8~5/8	JT6	97	110	57	1.30

Unit: mm



- 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

Morse Taper Holder

莫氏錐度刀桿 -A 型

MTA

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

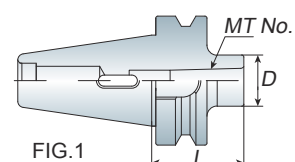


FIG.1

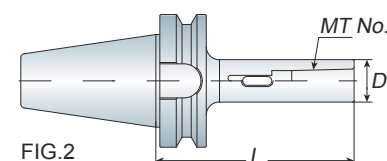


FIG.2



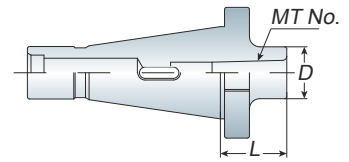
- The tool holder for morse taper shank with internal tang.

BT / NT
series

MTA

Morse Taper Holder

莫氏錐度刀桿 -A 型



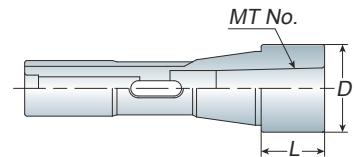
- The tool holder for morse taper shank with internal tang.
- When ordering, please specify the draw bolt with inch size or metric size.
- 請於訂購時，確認刀桿為英制或公制

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

R8 Taper Shank

R8 莫氏錐度刀桿 -A 型



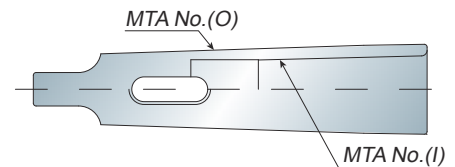
- The tool holder for morse taper shank with internal tang.

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

Unit: mm

Morse Taper Sleeve

莫氏鑽頭套筒



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

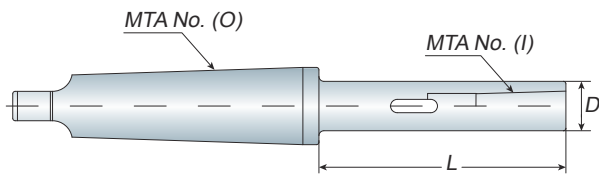
Model No.	MTA No. (O)	MTA No. (I)	Weight (kg)
MTA3-MTA1	MTA3	MTA1	0.25
-MTA2	MTA3	MTA2	0.20
MTA4-MTA1	MTA4	MTA1	0.55
-MTA2	MTA4	MTA2	0.50
-MTA3	MTA4	MTA3	0.45
MTA5-MTA1	MTA5	MTA1	1.50
-MTA2	MTA5	MTA2	1.45
-MTA3	MTA5	MTA3	1.30
-MTA4	MTA5	MTA4	1.10

Morse Taper Extension

莫氏延長鑽頭套筒

MTA

BT / NT series



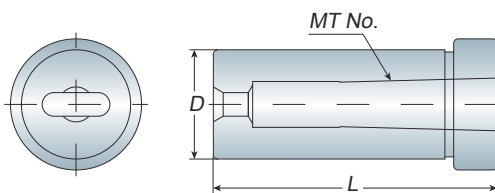
Model No.	MTA No. (O)	MTA No. (I)	D	L	Weight (kg)
MTA3-MTA1-L	MTA3	MTA1	20	100,150	0.65/0.85
MTA3-MTA2-L		MTA2	25	100,150	0.70/0.95
MTA3-MTA3-L		MTA3	32	150,200	0.70/1.10/1.10
MTA4-MTA2-L	MTA4	MTA2	25	100,150,200	0.90/1.20/1.40
MTA4-MTA3-L		MTA3	32	120,170,220	1.20/1.40/1.80
MTA4-MTA4-L		MTA4	38	150,200,250	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

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

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



Stop screw / 止付螺絲

- 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

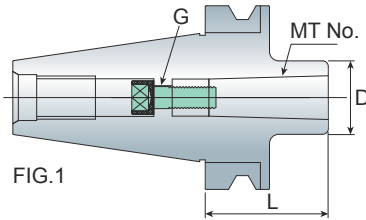


FIG.1

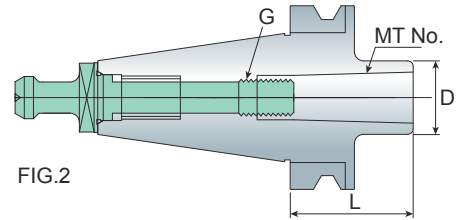


FIG.2

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
	1	MTB2	45	32	M10x1.5P	14~23	14.5~23	16~22	1.10
	1	MTB3	75	40	M12x1.75P	23~32	24~32	24~32	1.30
	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
	1	MTB2	45	32	M10x1.5P	14~23	14.5~23	16~22	3.85
	1	MTB3	60	40	M12x1.75P	23~32	24~32	24~32	3.90
	1	MTB4	75	50	M16x2.0P	32~50	32~50	35~50	4.00
	2	MTB5	120	70	M20x2.5P	50~75	50	40~75	4.90

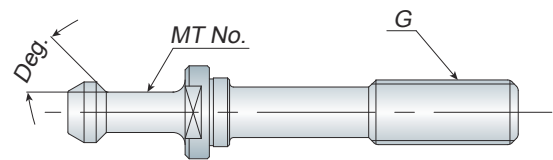
Unit: mm



Extension Pull Stud

長拉頭

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

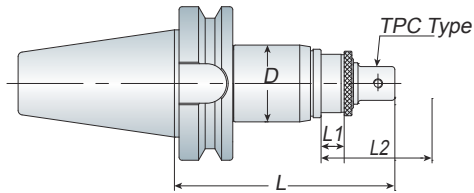


Model No.	MT. No.	G	Deg.	Weight (kg)
MTB4 (M16)	MTB4	M16x2.0P	45/60/90	0.15
MTB5 (M20)	MTB5	M20x2.5P		0.45

Unit: mm

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	50	140	10	20	M3~M16	TPC316	1.20
BT40 TPM316	50	140	10	20	M3~M16	TPC316	1.70
BT50 TPM316	50	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

TPM

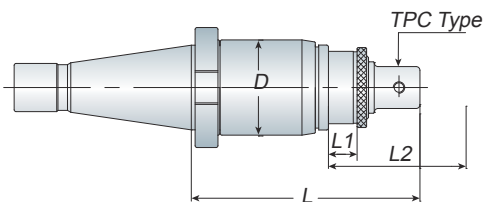
BT / NT series



- 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	Draw Bolt	Weight (kg)
NT30 TPM316	50	140	10	20	M3~M16	TPC316	1/2"-12 M12x1.75P	1.30
NT40 TPM316	50	130	10	20	M3~M16	TPC316	5/8"-11 M16x2.0P	1.50
NT50 TPM316	50	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



- 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



P53- TPC Collet

BT / NT
series

TPM



- 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.



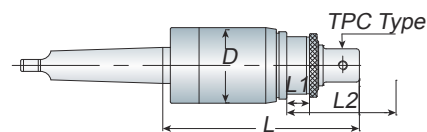
- When ordering, please advice shank diameter ($\varnothing d$) and square size (SQ/□). For more detail info about shank diameter ($\varnothing d$) and square size (SQ/□), please refer to P.52.
- 請於訂購時，確認絲攻筒夾的柄徑 ($\varnothing d$) 和四角孔 (SQ/□)。更多詳細資料，請參考 P.52



- 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

Morse Taper Shank

莫氏錐度扭力伸縮攻牙本體

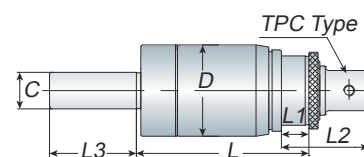


Model No.	D	L	L1	L2	Tapping Range	Collet Type	Weight (kg)
MTA2 TPM316	50	130	10	20	M3~M16	TPC316	1.20
MTA3 TPM316	50	130	10	20	M3~M16	TPC316	1.30
MTA4 TPM316	50	130	10	20	M3~M16	TPC316	1.60
MTA5 TPM316	50	130	10	20	M3~M16	TPC316	2.50
MTA3 TPM830	66	160	10	25	M8~M30	TPC830	2.20
MTA4 TPM830	66	160	10	25	M8~M30	TPC830	2.60
MTA5 TPM830	66	160	10	25	M8~M30	TPC830	3.50

Unit: mm

Straight Shank

直柄扭力伸縮攻牙本體

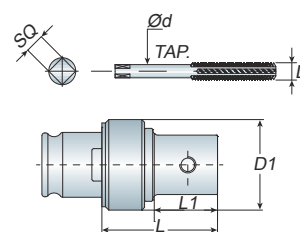


Model No.	C	D	L	L1	L2	L3	Tapping Range	Collet Type	Weight (kg)
C20 TPM316	20	50	130	10	20	65	M3~M16	TPC316	1.20
C25 TPM830	25	66	160	10	25	65	M8~M30	TPC830	2.10
C32 TPM830	32	66	160	10	25	65	M8~M30	TPC830	2.40

Unit: mm

Tap Collet

扭力絲攻筒夾



Model No.	Tap Diameter (D)	D1	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	27	47	TPM316	0.25
TPC316	W1/2,W5/8, PT1/8,PT1/4	33	27	47	TPM316	0.25
TPC830	M8,M10,M12,M14 M16,W5/16,W3/4 W7/16,W1/2,W5/8	51	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	43	62	TPM830	0.60

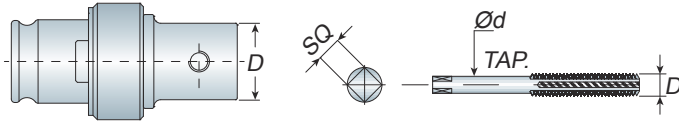
Unit: mm

Tap Collet Specification

絲攻筒夾規格表

TPC

BT / NT series



TPC316

JIS	Ød	□	D
TPC316 M03 W1/8	4	3.2	14
TPC316 M04	5	4	15
TPC316 M05 W3/16	5.5	4.5	16
TPC316 M06 W1/4	6	4.5	16
TPC316 M08	6.2	5	16
TPC316 M10 W3/8	7	5.5	18
TPC316 M12	8.5	6.5	19
TPC316 M14	10.5	8	20
TPC316 M16	12.5	10	22
TPC316 W5/16	6.1	5	15
TPC316 W7/16 PT1/8	8	6	17
TPC316 W1/2	9	7	18
TPC316 W5/8	12	9	22
TPC316 PT1/4	11	9	20

Unit: mm

ISO	Ød	□	D
TPC316 M03	3.15	2.5	14
TPC316 M04	4	3.15	14
TPC316 M05	5	4	15
TPC316 M06	6.3	5	16
TPC316 M08	8	6.3	18
TPC316 M10	10	8	19
TPC316 M12	9	7.1	18
TPC316 M14	11.2	9	20
TPC316 M16	12.5	10	22

Unit: mm

DIN371	Ød	□	D
TPC316 M03	3.5	2.7	14
TPC316 M04	4.5	3.4	14
TPC316 M05	6	4.9	16
TPC316 M06	6	4.9	16
TPC316 M08	8	6.2	18
TPC316 M10	10	8	19

Unit: mm

DIN376	Ød	□	D
TPC316 M04	2.8	2.1	12
TPC316 M05	3.5	2.7	13
TPC316 M06	4.5	3.4	15
TPC316 M08	6	4.9	16
TPC316 M10	7	5.5	18
TPC316 M12	9	7	18
TPC316 M14	11	9	20
TPC316 M16	12	9	22

Unit: mm

TPC830

JIS	Ød	□	D
TPC830 M08	6.2	5	16
TPC830 M10 W3/8	7	5.5	18
TPC830 M12	8.5	6.5	20
TPC830 M14	10.5	8	22
TPC830 M16	12.5	10	23
TPC830 M18 W3/4 PT3/8	14	11	24
TPC830 M20	15	12	26
TPC830 M22 W7/8	17	13	28
TPC830 M24	19	15	29
TPC830 M27 W1 PT5/8	20	15	30
TPC830 M30 PT3/4	23	17	34
TPC830 W5/16	6.1	5	16
TPC830 W7/16 PT1/8	8	6	18
TPC830 W1/2	9	7	20
TPC830 W5/8	12	9	23
TPC830 PT1/4	11	9	22
TPC830 PT1/2	18	14	29

Unit: mm

ISO	Ød	□	D
TPC830 M08	8	6.3	18
TPC830 M10	10	8	19
TPC830 M12	9	7.1	19
TPC830 M14	11.2	9	21
TPC830 M16	12.5	10	23
TPC830 M18	14	11.2	27
TPC830 M20	14	11.2	27
TPC830 M22	16	12.5	28
TPC830 M24	18	14	29
TPC830 M27	20	16	30
TPC830 M30	20	16	34
TPC830 PT1/2	18	12	29

Unit: mm

DIN371	Ød	□	D
TPC830 M08	8	6.2	18
TPC830 M10	10	8	23

Unit: mm

DIN376	Ød	□	D
TPC830 M08	6	4.9	16
TPC830 M10	7	5.5	16
TPC830 M12	9	7	18
TPC830 M14	11	9	20
TPC830 M16	12	9	21
TPC830 M18	14	11	24
TPC830 M20	16	12	27
TPC830 M22	18	14.5	28
TPC830 M24	18	14.5	28
TPC830 M27	20	16	31
TPC830 M30	22	18	34

Unit: mm

Tap Holder

簡式攻牙本體

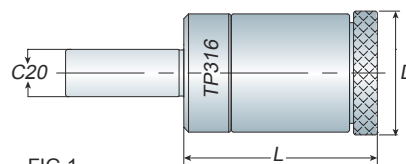


FIG.1

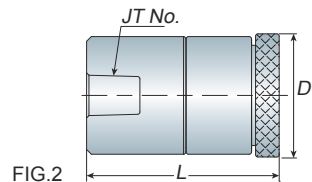


FIG.2



- 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

Model No.	FIG.	L	D	Tapping Range	Collet Type	Weight (kg)
C20 TP316	1	50	42	M3~M16	TPC316	0.40
JT2 TP316	2	75	42	M3~M16	TPC316	0.50
JT6 TP316	2	75	42	M3~M16	TPC316	0.40

Unit: mm

Tension & Compression Tap Holder

伸縮攻牙本體

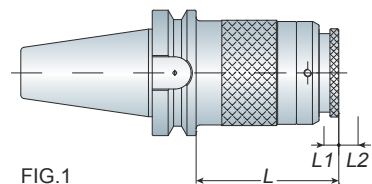


FIG.1

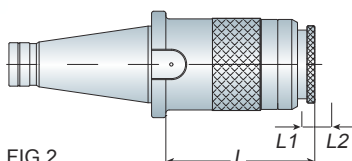


FIG.2

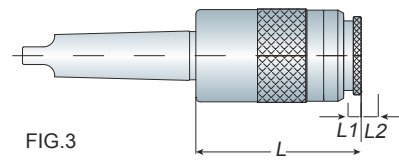


FIG.3

- 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

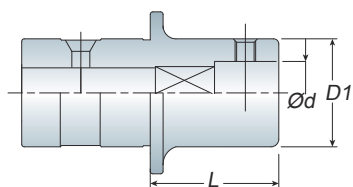
Model No.	FIG.	L	L1	L2	Tapping Range	Collet Type	Weight (kg)
BT50 TPG875	1	115	15	80	M8~M30	TPC830	7.30
			15	80	M32~M75	TPG875	
NT50 TPG875	2	140	10	80	M8~M30	TPC830	7.30
			10	80	M32~M75	TPG875	
MTA5 TPG875	3	161	15	80	M8~M30	TPC830	6.50
			15	80	M32~M75	TPG875	

Unit: mm



P53-TPC830 Collet

P56-TPG875 Collet



TPG875 Tap Collet

TPG875 絲攻筒夾

TPG

BT / NT
series

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	□
TPG875 M32 W1-1/4 PT7/8	24	19	TPG875 M33	22.4	18
TPG875 M33	25	19	TPG875 M36	25	20
TPG875 M34 M35 W1-3/8 PT1	26	21	TPG875 M39 M42	28	22.4
TPG875 M36 PT1-1/8	28	21	TPG875 M45 M48	31.5	25
TPG875 M39 M40 W1-1/2	30	23	TPG875 M52	35.5	28
TPG875 M42 W1-5/8	32	26	Unit: mm		
TPG875 M45 M46 W1-3/4 PT1-3/8	35	26	DIN376	Ød	□
TPG875 M48 W1-7/8 PT1-1/2	38	29	TPG875 M33	25	20
TPG875 M50 W2	40	32	TPG875 M36	28	22
TPG875 M52 PT1-3/4	42	32	TPG875 M39 M42	32	24
TPG875 M56	44	35	TPG875 M45 M48	36	29
TPG875 M60 PT2	46	35	TPG875 M52	40	32
TPG875 M64 W2-1/2	48	38	Unit: mm		
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.
- 此轉換器為裝配於 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



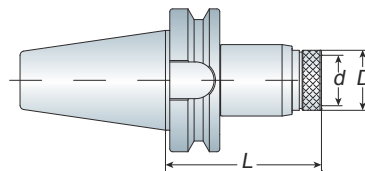
- ATC312 tap collet (FIG.1) could be chosen according to your request. (refer to P.51)
- 扭力絲攻筒夾尺寸可任選 (請參考 P.51)

BT / NT series

ART

Rigid Tap Holder

剛性攻牙本體



- 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

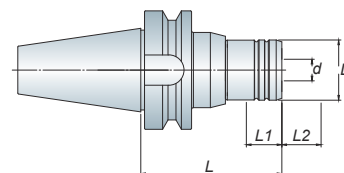
Model No.	d	D	L	Tapping Range	Collet Type	Weight (kg)
BT30 ART312	19	36	60	M3~M12	ATC312	0.60
BT40 ART312	19	36	65	M3~M12	ATC312	1.20
BT50 ART312	19	36	80	M3~M12	ATC312	4.00
BT40 ART822	31	53	85	M8~M22	ATC822	1.60
BT50 ART822	31	53	95	M8~M22	ATC822	4.40

Unit: mm

ATP

Tension & Compression Tap Holder

伸縮攻牙本體



- 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

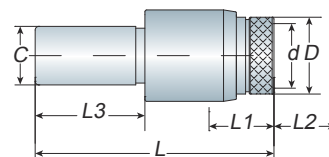
Model No.	d	D	L	L1	L2	Tapping Range	Collet Type	Weight (kg)
BT30 ATP312	19	36	70	6~10	6~10	M3~M12	ATC312	0.70
BT40 ATP312	19	36	75	6~10	6~10	M3~M12	ATC312	1.20
BT40 ATP312-135	19	36	135	6~10	6~10	M3~M12	ATC312	1.80
BT50 ATP312	19	36	85	6~10	6~10	M3~M12	ATC312	4.00
BT50 ATP312-120	19	36	120	6~10	6~10	M3~M12	ATC312	4.20
BT50 ATP312-150	19	36	150	6~10	6~10	M3~M12	ATC312	4.50
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



Straight Shank

直柄伸縮攻牙本體



- 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

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

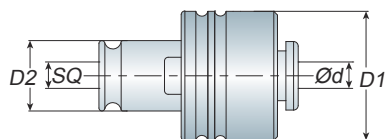
Unit: mm



P58/59-ATC Collet

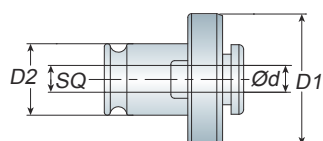
ATC312 Tap Collet Torque Control Type (Fig.1)

扭力絲攻筒夾 - FIG.1



Positive Drive Type (Fig.2)

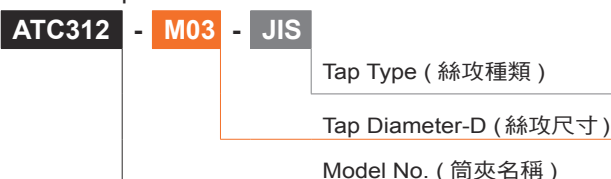
剛性絲攻筒夾 - FIG.2



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:



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

ATC312 Tap Collet Specification

ATC312 絲攻筒夾規格表

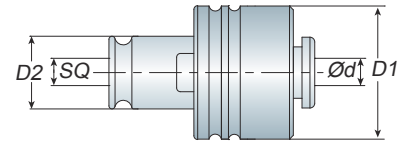
JIS	Ød	□	ISO	Ød	□	DIN371	Ød	□	DIN376	Ød	□
ATC312 M03 W1/8	4	3.2	ATC312 M03	3.15	2.5	ATC312 M03	3.5	2.7	ATC312 M04	2.8	2.1
ATC312 M04	5	4	ATC312 M04	4	3.15	ATC312 M04	4.5	3.4	ATC312 M05	3.5	2.7
ATC312 M05 W3/16	5.5	4.5	ATC312 M05	5	4	ATC312 M05 M06	6	4.9	ATC312 M06	4.5	3.4
ATC312 M06 W1/4	6	4.5	ATC312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

BT / NT
series

ATC

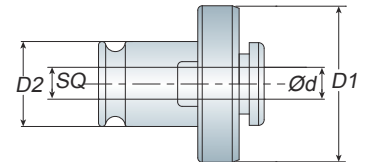
ATC822 Tap Collet Torque Control Type (Fig.1)

扭力絲攻筒夾 - FIG.1



Positive Drive Type (Fig.2)

剛性絲攻筒夾 - FIG.2

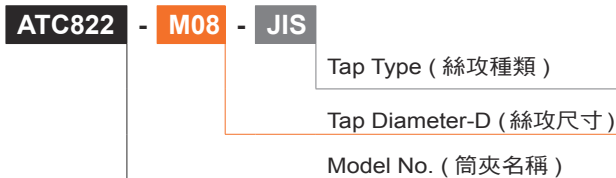


- When ordering, please specify the tap collet for torque control type (FIG.1) or positive drive type (FIG.2).
- Please also check the shank diameter ($\varnothing d$) and square size (SQ/□).
- 請於訂購時，確認筒夾為扭力絲攻筒夾 (FIG.1) 或剛性絲攻筒夾 (FIG.2) 以及筒夾之柄徑 ($\varnothing d$) 和四角孔 (SQ/□)

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:



- 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	$\varnothing d$	□
ATC822 M08	6.2	5
ATC822 M10 W3/8	7	5.5
ATC822 M12	8.5	6.5
ATC822 M14	10.5	8
ATC822 M16	12.5	10
ATC822 M18 W3/4 PT3/8	14	11
ATC822 M20	15	12
ATC822 M22 W7/8	17	13
ATC822 W1/2	9	7
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

ISO	$\varnothing d$	□
ATC822 M08	8	6.3
ATC822 M10	10	8
ATC822 M12	9	7.1
ATC822 M14	11.2	9
ATC822 M16	12.5	10
ATC822 M18 M20	14	11.2
ATC822 M22	16	12.5

Unit: mm

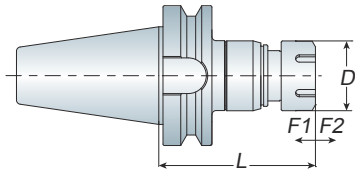
DIN371	$\varnothing d$	□
ATC822 M08	8	6.2
ATC822 M10	10	8

Unit: mm

DIN376	$\varnothing d$	□
ATC822 M08	6	4.9
ATC822 M10	7	5.5
ATC822 M12	9	7
ATC822 M14	11	9
ATC822 M16	12	9
ATC822 M18	14	11
ATC822 M20	16	12
ATC822 M22 M24	18	14.5

Unit: mm

Tension & Compression Tap Holder



剛性伸縮攻牙本體

TER

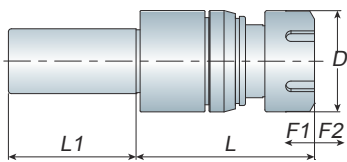
BT / NT series

Model No.	D	L	F1	F2	Tapping Range	Collet Type	Weight (kg)
BT30 TER16	28	95	8	8	M3~M10	ER16GB	0.70
TER20	34	95	8	8	M3~M12	ER20GB	0.80
BT40 TER16	28	85	8	8	M3~M10	ER16GB	1.20
TER20	34	90	8	8	M3~M12	ER20GB	1.30
TER25	42	100	8	8	M4~M16	ER25GB	1.60
TER32	50	105	8	8	M4~M22	ER32GB	1.70
TER40	63	125	8	8	M6~M30	ER40GB	2.60
BT50 TER16	28	95	8	8	M3~M10	ER16GB	3.90
TER20	34	95	8	8	M3~M12	ER20GB	4.00
TER25	42	105	8	8	M4~M16	ER25GB	4.20
TER32	50	105	8	8	M4~M22	ER32GB	4.30
TER40	63	120	8	8	M6~M30	ER40GB	4.90

Unit: mm



- TER tap holder uses the ER-GB tap 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-GB 攻牙筒夾做使用
- 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	F1	F2	Tapping Range	Collet Type	Weight (kg)
C20 TER16	28	75	55	5	12	M3~M10	ER16GB	0.40
TER20	34	80	55	5	12	M3~M12	ER20GB	0.50
TER25	42	80	55	5	12	M4~M16	ER25GB	0.80
C25 TER16	28	75	65	5	12	M3~M10	ER16GB	0.50
TER20	34	80	65	5	12	M3~M12	ER20GB	0.60
TER25	42	80	65	5	12	M4~M16	ER25GB	0.90
TER32	50	80	65	5	8	M4~M22	ER32GB	1.10
C32 TER16	28	75	70	5	12	M3~M10	ER16GB	0.70
TER20	34	80	70	5	12	M3~M12	ER20GB	0.80
TER25	42	80	70	5	12	M4~M16	ER25GB	1.00
TER32	50	80	70	5	8	M4~M22	ER32GB	1.20
C40 TER16	28	75	70	5	12	M3~M10	ER16GB	1.00
TER20	34	80	70	5	12	M3~M12	ER20GB	1.00
TER25	42	80	70	5	12	M4~M16	ER25GB	1.20
TER32	50	80	70	5	8	M4~M22	ER32GB	1.50

Unit: mm



- TER tap holder uses the ER-GB tap 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-GB 攻牙筒夾做使用
- 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



P16- ER Nut

P14-ER GB Collet

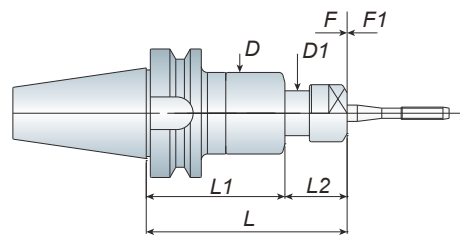
P17- Wrench

BT / NT
series

WER

Synchro Tap Holder

同步攻牙本體



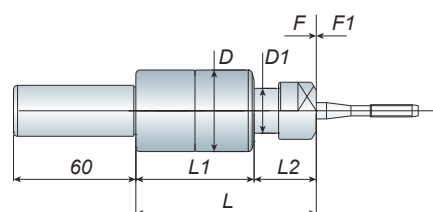
Model No.	D	D1	L	L1	L2	F	F1	Tapping Range	Collet Type
BT30 WER11-090 -120	35	14	90 120	66	24 54	0.5	0.5	M1~M6	ER11
WER16-095 -120 -150	40	22	95 120 150	63	32 57 87	0.5	0.5	M3~M10	ER16GB
WER20-095 -120 -150	46	25	95 120 150		32 57 87	0.5	0.5	M3~M12	ER20GB
BT40 WER11-090 -120	35	14	90 120	66	24 54	0.5	0.5	M1~M6	ER11
WER16-100 -125 -155	40	22	100 125 155	68	32 57 87	0.5	0.5	M3~M10	ER16GB
WER20-100 -125 -155	46	25	100 125 155		32 57 87	0.5	0.5	M3~M12	ER20GB
BT50 WER11-120 -150	35	14	120 150	96	24 54	0.5	0.5	M1~M6	ER11
WER16-125 -150 -180	40	22	125 150 180	93	32 57 87	0.5	0.5	M3~M10	ER16GB
WER20-125 -150 -180	46	25	125 150 180		32 57 87	0.5	0.5	M3~M12	ER20GB

Unit: mm



Straight Shank

直柄同步攻牙本體



Model No.	D	D1	L	L1	L2	F	F1	Tapping Range	Collet Type
C25 WER16-090	40	22	90	61	32	0.5	0.5	M3~M10	ER16GB

Unit: mm

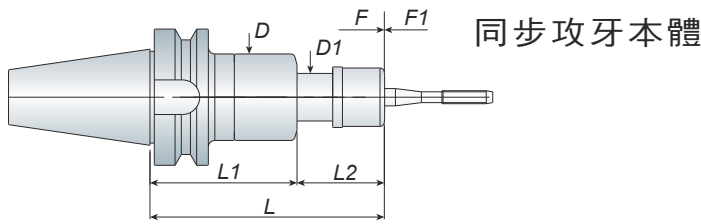


- Compression and tension compensation at 0.5mm to make an accurate thread is maintained
- Internal buffer of compression compensation reduce the pressure of torque for taps by 1/3
- Tension compensation reduce the torque that increases the quantity and accuracy of tapped hole
- Special design make good tapping accuracy and have long term tapping
- 壓縮與伸長方向皆能補償 0.5mm，能補正攻牙誤差
- 壓縮方向補償可以使攻牙負荷降低至普通同步攻牙負荷的 1/3
- 拉伸方向補償可降低反轉時的扭力以增加質量與精度
- 特殊結構設計，提升攻牙的精度及耐長期使用

Synchro Tap Holder

WASK

BT / NT series

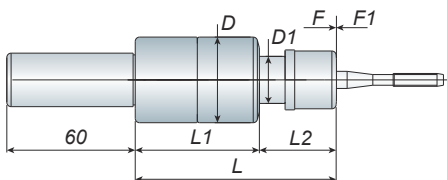


Model No.	D	D1	L	L1	L2	F	F1	Tapping Range	Collet Type
BT30 WASK06-090 -120	35	19	90 120	66	24 54	0.5	0.5	M1~M6	ASK06
WASK10-095 -120 -150	40	24	95 120 150	63	32 57 87	0.5	0.5	M3~M12	ASK10 ASK10E
WASK13-095 -120 -150	46	29	95 120 150		32 57 87	0.5	0.5	M3~M14	ASK13 ASK13E
BT40 WASK06-090 -120	35	19	90 120	66	24 54	0.5	0.5	M1~M6	ASK06
WASK10-100 -125 -155	40	24	100 125 155	68	32 57 87	0.5	0.5	M3~M12	ASK10 ASK10E
WASK13-100 -125 -155	46	29	100 125 155		32 57 87	0.5	0.5	M3~M14	ASK13 ASK13E
BT50 WASK06-120 -150	35	19	120 150	96	24 54	0.5	0.5	M1~M6	ASK06
WASK10-125 -150 -180	40	24	125 150 180	93	32 57 87	0.5	0.5	M3~M12	ASK10 ASK10E
WASK13-125 -150 -180	46	29	125 150 180		32 57 87	0.5	0.5	M3~M14	ASK13 ASK13E

Unit: mm

Straight Shank

直柄同步攻牙本體



Model No.	D	D1	L	L1	L2	F	F1	Tapping Range	Collet Type
C25 WASK10-090	40	22	90	58	32	0.5	0.5	M3~M12	ASK10 ASK10E

Unit: mm

- Compression and tension compensation at 0.5mm to make an accurate thread is maintained
- Internal buffer of compression compensation reduce the pressure of torque for taps by 1/3
- Tension compensation reduce the torque that increases the quantity and accuracy of tapped hole
- Special design make good tapping accuracy and have long term tapping
- 壓縮與伸長方向皆能補償 0.5mm，能補正攻牙誤差
- 壓縮方向補償可以使攻牙負荷降低至普通同步攻牙負荷的 1/3
- 拉伸方向補償可降低反轉時的扭力以增加質量與精度
- 特殊結構設計，提升攻牙的精度及耐長期使用



DT24 / DT33 Drill Taper Set
Consists:

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



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
- 鑽頭套筒 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



- Optional: DT33 APU13
- 另有 DT33 APU13 可供選購

Taper Holder Sleeve

旋臂攻牙本體絲攻套筒

Model No.	Weight (kg)
DT24 MTA2 Holder	1.85
MTA3 Holder	1.95
MTA4 Holder	2.30
MTA5 Holder	3.20
DT33 MTA3 Holder	3.35
MTA4 Holder	3.65
MTA5 Holder	4.60

Unit: mm

Model No.	Weight (kg)
DT24-MT1	0.40
-MT2	0.40
-MT3	0.70
DT33-MT1	0.60
-MT2	0.70
-MT3	0.70
-MT4	0.70

Unit: mm

Tap Collet

絲攻筒夾

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	M6, M8,M10,M12,M14,M16,M18,M20,M22,M24,M27,M30,M32,M33,M34,M36 W1/4,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

- 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/ □)

Tap Collet Specification

絲攻筒夾規格表

DT24

BT / NT
series

JIS	Ød	□
DT24 M04	5	4
DT24 M05 W3/16	5.5	4.5
DT24 M06 W1/4	6	4.5
DT24 M08	6.2	5
DT24 M10 W3/8	7	5.5
DT24 M12	8.5	6.5
DT24 M14	10.5	8
DT24 M16	12.5	10
DT24 M18 W3/4 PT3/8	14	11
DT24 M20	15	12
DT24 M22 W7/8	17	13
DT24 M24	19	15
DT24 W5/16	6.1	5
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

Unit: mm

ISO	Ød	□
DT24 M04	4	3.15
DT24 M05	5	4
DT24 M06	6.3	5
DT24 M08	8	6.3
DT24 M10	10	8
DT24 M12	9	7.1
DT24 M14	11.2	9
DT24 M16	12.5	10
DT24 M18 M20	14	11.2
DT24 M22	16	12.5
DT24 M24	18	14

Unit: mm

DIN371	Ød	□
DT24 M04	4.5	3.4
DT24 M05	6	4.9
DT24 M06	6	4.9
DT24 M08	8	6.2
DT24 M10	10	8

Unit: mm

DIN376	Ød	□
DT24 M04	2.8	2.1
DT24 M05	3.5	2.7
DT24 M06	4.5	3.4
DT24 M08	6	4.9
DT24 M10	7	5.5
DT24 M12	9	7
DT24 M14	11	9
DT24 M16	12	9
DT24 M18	14	11
DT24 M20	16	12
DT24 M22	18	14.5
DT24 M24	18	14.5

Unit: mm

Tap Collet Specification

絲攻筒夾規格表

DT33

JIS	Ød	□
DT33 M06 W1/4	6	4.5
DT33 M08	6.2	5
DT33 M10 W3/8	7	5.5
DT33 M12	8.5	6.5
DT33 M14	10.5	8
DT33 M16	12.5	10
DT33 M18 W3/4 PT3/8	14	11
DT33 M20	15	12
DT33 M22 W7/8	17	13
DT33 M24	19	15
DT33 M27 W1 PT5/8	20	15
DT33 M30 PT3/4	23	17
DT33 M32 PT7/8 W1-1/4	24	19
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

Unit: mm

ISO	Ød	□
DT33 M08	8	6.3
DT33 M10	10	8
DT33 M12	9	7.1
DT33 M14	11.2	9
DT33 M16	12.5	10
DT33 M18 M20	14	11.2
DT33 M22	16	12.5
DT33 M24	18	14
DT33 M27 M30	20	16
DT33 M33	22.4	18
DT33 M36	25	20

Unit: mm

DIN371	Ød	□
DT33 M08	8	6.2
DT33 M10	10	8

Unit: mm

DIN376	Ød	□
DT33 M08	6	4.9
DT33 M10	7	5.5
DT33 M12	9	7
DT33 M14	11	9
DT33 M16	12	9
DT33 M18	14	11
DT33 M20	16	12
DT33 M22 M24	18	14.5
DT33 M27	20	16
DT33 M30	22	18
DT33 M33	25	20
DT33 M36	28	22

Unit: mm



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

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/□)

DT52

Tap Collet Specification

絲攻筒夾規格表

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

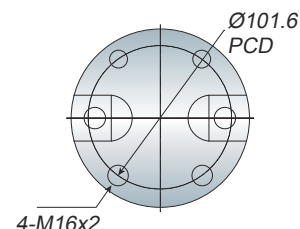
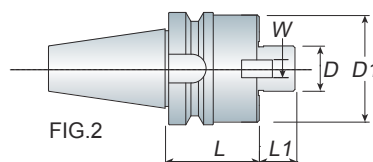
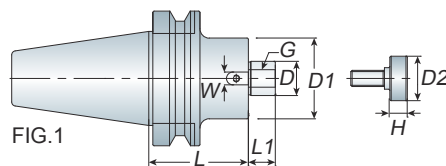
Face Mill Holder - Inch

平面銑刀桿

FMA

BT / NT

series



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	H	G	Weight (kg)
BT30 FMA25.4-045	1	25.4	45	33	45	20	9.5	13	M12	0.90
-060	1	25.4	45	33	60	20	9.5	13	M12	1.20
FMA31.75-045	1	31.75	58	40	45	22	12.7	13.5	M12	1.30
BT40 FMA25.4-045/060	1	25.4	60	33	45/60	20	9.5	13	M12	1.70/2.00
-090/105	1	25.4	60	33	90/105	20	9.5	13	M12	2.60/2.90
-125/150	1	25.4	60	33	125/150	20	9.5	13	M12	3.20/3.80
FMA31.75-045/060	1	31.75	70	40	45/60	22	12.7	13.5	M12	1.80/2.30
-090/105	1	31.75	70	40	90/105	22	12.7	13.5	M12	3.20/3.30
FMA38.1-045	1	38.1	85	50	45	23	15.9	15	M16	2.60
-060/090	1	38.1	85	50	60/90	23	15.9	15	M16	2.80/3.40
BT50 FMA25.4-045/075	1	25.4	60	33	45/75	20	9.5	13	M12	4.20/4.90
-045S/075S	1	25.4	48	33	45/75	20	9.5	13	M12	4.00/4.50
-105/125	1	25.4	60	33	105/125	20	9.5	13	M12	5.30/5.60
-105S/125S	1	25.4	48	33	105/125	20	9.5	13	M12	4.80/5.20
-150/200	1	25.4	60	33	150/200	20	9.5	13	M12	6.10/7.30
-150S/200S	1	25.4	48	33	150/200	20	9.5	13	M12	5.60/6.00
-250/300	1	25.4	60	33	250/300	20	9.5	13	M12	8.20/9.30
-250S/300S	1	25.4	48	33	250/300	20	9.5	13	M12	6.90/7.20
-350/400	1	25.4	60	33	350/400	20	9.5	13	M12	10.20/11.20
FMA31.75-045/075	1	31.75	70	40	45/75	22	12.7	13.5	M12	4.40/5.30
-105/125	1	31.75	70	40	105/125	22	12.7	13.5	M12	6.20/6.50
-150/200	1	31.75	70	40	150/200	22	12.7	13.5	M12	7.30/8.60
-250/300	1	31.75	70	40	250/300	22	12.7	13.5	M12	10.30/11.40
FMA38.1-045	1	38.1	85	50	45	23	15.9	15	M16	4.50
-075/105	1	38.1	85	50	75/105	23	15.9	15	M16	5.90/7.10
-125/150	1	38.1	85	50	125/150	23	15.9	15	M16	8.30/9.50
-175/200	1	38.1	85	50	175/200	23	15.9	15	M16	10.30/10.90
FMA50.8-045	1	50.8	95	65	45	24	19.05	16	M16	5.00
-075/105	1	50.8	95	65	75/105	24	19.05	16	M16	6.60/8.60
-150/200	1	50.8	95	65	150/200	24	19.05	16	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

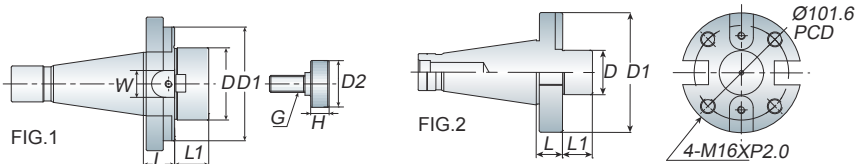
Unit: mm

BT / NT
series

FMA

Face Mill Holder - Inch

平面銑刀桿



- 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

Model No.	FIG.	D	D1	D2	L	L1	W	H	G	Draw Bolt	Weight (kg)
NT30 FMA25.4-020	1	25.4	65	33	20	20	9.5	13	M12	1/2"-12 M12x1.75P	0.80
FMA31.75-020	1	31.75	73	40	20	22	12.7	13.5	M12		0.90
FMA38.1-020	1	38.1	82	50	20	23	15.9	15	M16		1.20
NT40 FMA25.4-020	1	25.4	65	33	20	20	9.5	13	M12	5/8"-11 M16x2.0P	1.40
FMA31.75-020	1	31.75	73	40	20	22	12.7	13.5	M12		1.50
FMA38.1-020	1	38.1	82	50	20	23	15.9	15	M16		2.10
FMA50.8-020	1	50.8	95	65	20	24	19.05	16	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	13	M12	1"-8 M24x3.0P	3.30
FMA31.75-020	1	31.75	73	40	20	22	12.7	13.5	M12		3.30
FMA38.1-020	1	38.1	82	50	20	23	15.9	15	M16		3.60
FMA50.8-020	1	50.8	95	65	20	24	19.05	16	M16		4.20
FMA47.625-024	2	47.625	128.57	-	24	32	25.4	-	-		5.30

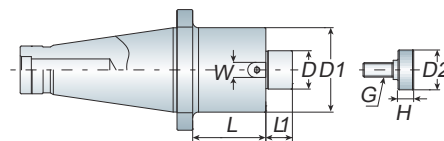
Unit: mm



- 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

Long Type

加長型



Model No.	D	D1	D2	L	L1	W	H	G	Draw Bolt
NT40 FMA25.4-L	25.4	60	33	50/75 100	20	9.5	13	M12	5/8"-11 M16x2.0P
FMA31.75-L	31.75	70	40		M12				
FMA38.1-L	38.1	85	50		M16				
FMA50.8-L	50.8	95	65		M16				
NT50 FMA25.4-L	25.4	60	33	50/75 100/125 150/200 300	20	9.5	13	M12	1"-8 M24x3.0P
FMA31.75-L	31.75	70	40		M12				
FMA38.1-L	38.1	85	50		M16				
FMA50.8-L	50.8	95	65		M16				
FMA47.625-L	47.625	128.57	-		32	25.4	-	-	

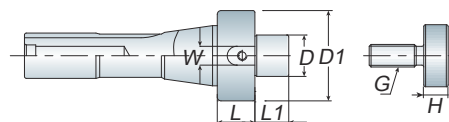
Unit: mm



- 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.

R8 Taper Shank

R8 平面銑刀桿



Model No.	D	D1	L	L1	W	H	G	Weight (kg)
R8 FMA25.4-020	25.4	48	20	20	9.5	13	M12	0.90
FMA31.75-020	31.75	54	20	22	12.7	13.5	M12	1.40

Unit: mm



P227/228
Face Mill Cutter

- 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

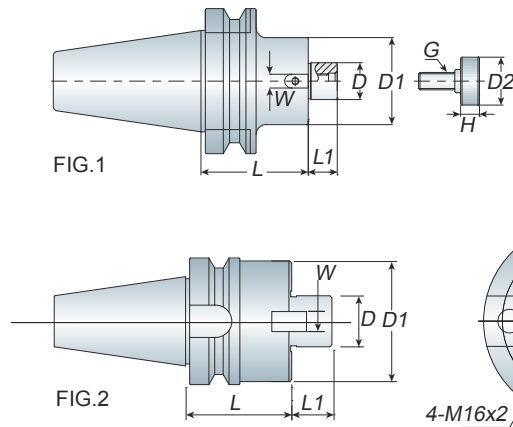
Face Mill Holder - Metric

平面銑刀桿

FMB

BT / NT

series



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



Model No.	FIG.	D	D1	D2	L	L1	W	H	G	Weight (kg)
BT30 FMB22-045	1	22	46	-	45	18	10	-	M10	0.80
FMB27-045	1	27	60	32	45	20	12	13	M12	1.00
BT40 FMB16-045	1	16	38	-	45	15	8	-	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	13	M12	1.70
-060	1	27	60	32	60	20	12	13	M12	2.00
-090/105	1	27	60	32	90/105	20	12	13	M12	2.60/3.00
FMB32-045	1	32	63	41	45	21	14	16	M16	1.80
-060	1	32	63	41	60	21	14	16	M16	2.10
-090/105	1	32	63	41	90/105	21	14	16	M16	3.00/3.30
FMB40-045	1	40	68	47	45	23	16	15	M16	2.00
-060	1	40	68	47	60	23	16	15	M16	2.70
BT50 FMB16-045	1	16	38	-	45	15	8	-	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	13	M12	4.30
-075	1	27	65	32	75	20	12	13	M12	5.00
-090/105	1	27	65	32	90/105	20	12	13	M12	5.40/5.80
-150/200	1	27	65	32	150/200	20	12	13	M12	7.20/8.90
FMB32-045	1	32	73	41	45	21	14	16	M16	4.40
-075/105	1	32	73	41	75/105	21	14	16	M16	5.40/6.60
-150/200	1	32	73	41	150/200	21	14	16	M16	8.00/9.70
FMB40-045	1/2	40	85	47	45	23	16	15	M16	4.60
-075	1/2	40	85	47	75	23	16	15	M16	5.90
-105/150	1/2	40	85	47	105/150	23	16	15	M16	6.90/8.60
FMB60-075	2	60	128.57	-	75	32	25.4	-	-	7.30

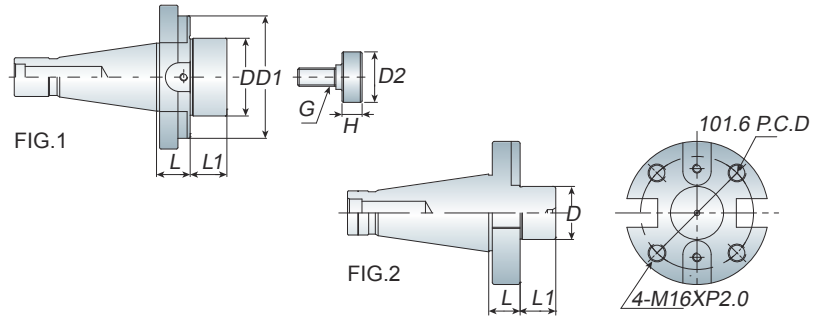
Unit: mm

BT / NT
series

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.
- 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

Model No.	FIG.	D	D1	D2	L	L1	H	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	32	20	20	13	M12		0.80
FMB32-020	1	32	59	41	20	21	16	M16		1.00
NT40 FMB22-020	1	22	60	-	20	18	-	M10	5/8"-11 M16x2.0P	1.20
FMB27-020	1	27	58	32	20	20	13	M12		1.40
FMB32-020	1	32	69	41	20	21	16	M16		1.40
FMB40-020	1	40	80	47	20	24	15	M16		1.80
FMB60-024	2	60	128	-	24	32	-	-		4.00
NT50 FMB22-020	1	22	48	-	20	18	-	M10	1"-8 M24x3.0P	3.10
FMB27-020	1	27	70	31	20	20	13	M12		3.30
FMB32-020	1	32	76	41	20	21	16	M16		3.40
FMB40-020	1	40	88	47	20	24	15	M16		3.70
FMB60-024	2	60	128	-	24	32	-	-		5.50

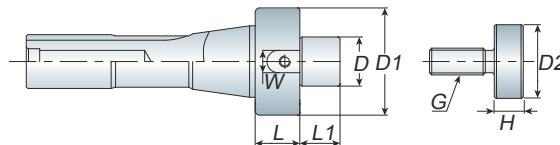
Unit: mm



R8 Taper Shank

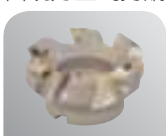
R8 平面銑刀桿

- 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	D2	L	L1	W	H	G	Weight (kg)
R8 FMB22-020	22	48	-	20	18	10	-	M10	0.80
FMB27-020	27	54	32	20	20	12	13	M12	1.00

Unit: mm



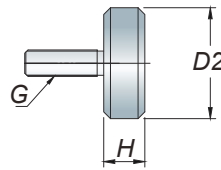
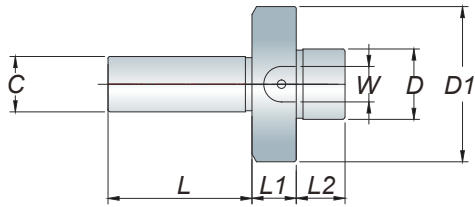
P227/228
Face Mill Cutter

Straight Shank

直柄平面銑刀桿

FMA FMB

BT / NT series



FMA Type

Model No.	C	D	D1	D2	L	L1	L2	W	H	G	Weight (kg)
C20 FMA25.4-020	20	25.4	48	33	60	20	20	9.5	13	M12	0.85
C25 FMA25.4-020	25	25.4	48	33	65	20	20	9.5	13	M12	0.90
FMA31.75-020	25	31.75	54	40	65	20	22	12.7	13.5	M12	1.00
C32 FMA25.4-020	32	25.4	48	33	70	20	20	9.5	13	M12	1.10
FMA31.75-020	32	31.75	54	40	70	20	22	12.7	13.5	M12	1.20

Unit: mm

FMB Type

Model No.	C	D	D1	D2	L	L1	L2	W	H	G	Weight (kg)
C20 FMB22-020	20	22	48	-	60	20	18	10	-	M10	0.60
C25 FMB22-020	25	22	48	-	65	20	18	10	-	M10	0.65
C32 FMB22-020	32	22	48	-	70	20	18	10	-	M10	0.90

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

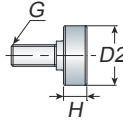
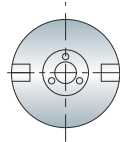
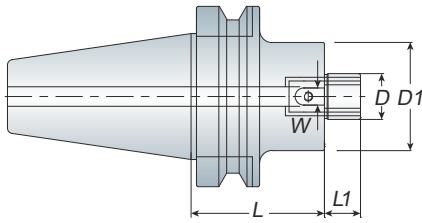


BT / NT
series

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	H	G	Weight (kg)
BT30 FMH25.4-045	25.4	45	33	45	20	9.5	13	M12	0.90
-060	25.4	45	33	60	20	9.5	13	M12	1.20
FMH31.75-045	31.75	58	40	45	22	12.7	13.5	M12	1.30
FMH22-045	22	48	-	45	18	10	-	M10	0.80
FMH27-045	27	60	32	45	20	12	13	M12	1.00
BT40 FMH25.4-045	25.4	60	33	45	20	9.5	13	M12	1.70
-060	25.4	60	33	60	20	9.5	13	M12	2.00
FMH31.75-045	31.75	70	40	45	22	12.7	13.5	M12	2.30
-060	31.75	70	40	60	22	12.7	13.5	M12	2.60
FMH38.1-060	38.1	85	50	60	23	15.9	15	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	16	M16	1.80
-060	32	63	41	60	21	14	16	M16	2.10
BT50 FMH25.4-045	25.4	60	33	45	20	9.5	13	M12	4.20
-075/105/150	25.4	60	33	75/105/150	20	9.5	13	M12	4.90/5.30/6.10
FMH31.75-045	31.75	70	40	45	22	12.7	13.5	M12	4.40
-075/105/150	31.75	70	40	75/105/150	22	12.7	13.5	M12	5.30/6.20/7.30
FMH38.1-045	38.1	85	50	45	23	15.9	15	M16	4.50
-075/105/150	38.1	85	50	75/105/150	23	15.9	15	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	13	M12	4.30
-075/105/150	27	65	32	75/105/150	20	12	13	M12	5.00/5.80/7.20
FMH32-045	32	73	41	45	21	14	16	M16	4.40
-075/105/150	32	73	41	75/105/150	21	14	16	M16	5.40/6.60/9.70
FMH40-045	40	85	47	45	23	16	15	M16	4.60
-075/105	40	85	47	75/105	23	16	15	M16	5.90/6.90

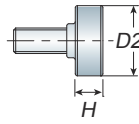
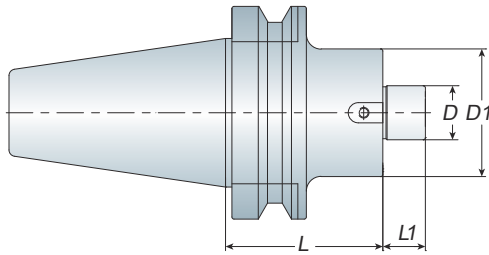
Unit: mm

Shell Mill Holder

筒狀銑刀桿

SMA

BT / NT
series



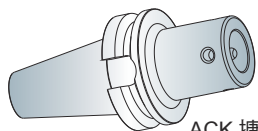
Features

- 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

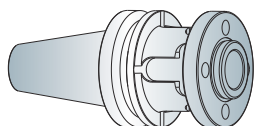
Model No.	D	D1	D2	L	L1	H	G	Weight (kg)
BT30 SMA15.875/16-045	15.875/16	34	20	45	17	-	M8	0.70
SMA22.225/22-045	22.225/22	42	28	45	27	-	M10	0.80
SMA25.4/27-045	25.4/27	50	33	45	36	13	M12	1.00
-060	25.4/27	50	33	60	36	13	M12	1.30
BT40 SMA15.875/16-060	15.875/16	34	20	60	17	-	M8	1.30
-120	15.875/16	34	20	120	17	-	M8	1.90
SMA22.225/22-060	22.225/22	42	28	60	27	-	M10	1.50
-120	22.225/22	42	28	120	27	-	M10	2.10
-180	22.225/22	42	28	180	27	-	M10	2.80
SMA25.4/27-045	25.4/27	50	33	45	36	13	M12	1.60
-060	25.4/27	50	33	60	36	13	M12	1.80
-105	25.4/27	50	33	105	36	13	M12	2.60
-150	25.4/27	50	33	150	36	13	M12	3.20
SMA31.75/32-045	31.75/32	60	40	45	38	13.5	M12	1.90
-060	31.75/32	60	40	60	38	13.5	M12	2.10
-090	31.75/32	60	40	90	38	13.5	M12	2.70
SMA38.1/40-060	38.1/40	80	50	60	38	15	M16	2.60
-090	38.1/40	80	50	90	38	15	M16	3.20
BT50 SMA15.875/16-075	15.875/16	34	20	75	17	-	M8	4.00
-120	15.875/16	34	20	120	17	-	M8	4.60
SMA22.225/22-075	22.225/22	42	28	75	27	-	M10	4.30
-120	22.225/22	42	28	120	27	-	M10	5.00
-180	22.225/22	42	28	180	27	-	M10	5.50
SMA25.4/27-045	25.4/27	50	33	45	36	13	M12	4.30
-075	25.4/27	50	33	75	36	13	M12	4.70
-105	25.4/27	50	33	105	36	13	M12	5.20
-150	25.4/27	50	33	150	36	13	M12	6.00
SMA31.75/32-045	31.75/32	60	40	45	38	13.5	M12	4.50
-075	31.75/32	60	40	75	38	13.5	M12	5.10
-105	31.75/32	60	40	105	38	13.5	M12	5.50
SMA38.1/40-045	38.1/40	80	50	45	38	15	M16	4.50
-075	38.1/40	80	50	75	38	15	M16	5.60

Unit: mm

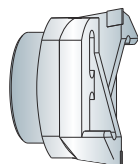
BT / NT series



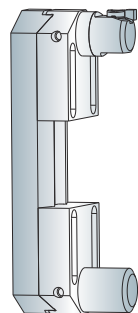
ACK 搪孔刀桿
(ACK Boring Holder)



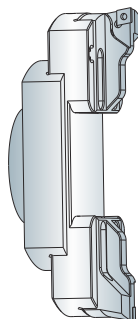
BST 搪孔刀桿
(BST Boring Holder)



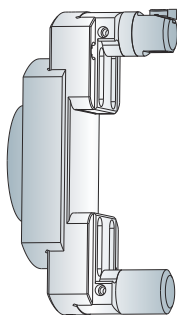
ACK 大孔徑雙刃粗搪刀頭
($\text{Ø}120\sim500$)



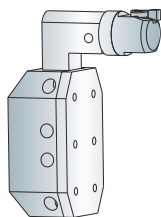
BCK 大孔徑精搪刀頭
($\text{Ø}200\sim600$)



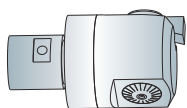
ZACK 大孔徑排齒可調式粗搪刀頭
($\text{Ø}200\sim550$)



ZBCK 大孔徑排齒可調式精搪刀頭
($\text{Ø}200\sim620$)



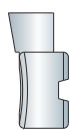
BCK 大孔徑方型精搪刀盤



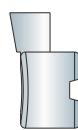
BCK 微調精搪刀頭
(Ø20~203)



(H-1)



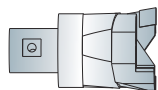
(H-2)



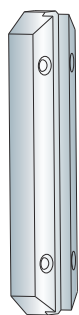
(H-3)



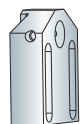
ZACK 排齒可調式粗搪刀頭
(Ø20~120)



ACK 雙刃粗搪刀頭
(Ø19~122)



BCK 橫向滑板



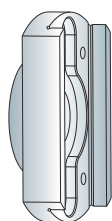
BCK 微調滑塊



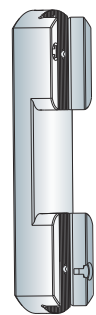
BCK41 精搪頭



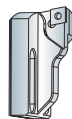
平衡塊



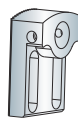
ZACK / ZBCK 連接盤



ZACK / ZBCK 排齒式橫向滑板



ZACK 排齒式刀片座



ZBCK 排齒式微調滑塊



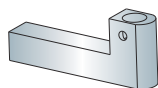
BCK41 精搪頭



平衡塊



BCK 精搪頭



方型精搪刀桿

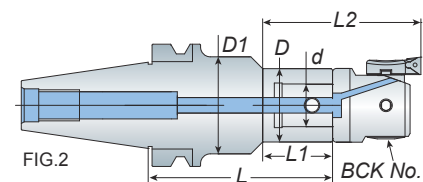
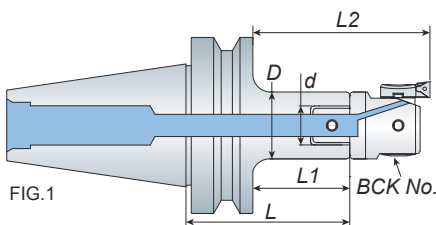
BT / NT
series

BCK

Boring System

ACK Boring Holder + BCK Boring Head

ACK 搪孔刀桿 + BCK 精搪頭



Features

- BCK20 ~ BCK100 boring range is from 20mm ~ 203mm.
- The ACK holder is coolant type
- The cutter and insert must be ordered separately.
- BCK20 ~ BCK100 其搪孔範圍：20mm ~ 203mm
- 標準刀桿皆有中心出水功能
- 搪頭及刀片為另購品



Model No.	FIG.	D	D1	d	L	L1	L2	BCK No.	Boring Range	Weight (kg)
BT30 ACK1-070	2	19	31	11	70	40	72.5	BCK20	20~36	0.60
ACK2-040/080	1	24	-	14	40/80	18/58	53.5/93.5	BCK25	25~47	0.40/0.70
ACK3-040/075	1	31	-	18	40/75	18/58	58/93	BCK32	32~60	0.70/0.90
ACK4-040/075	1	39	-	22	40/75	18/58	65/100	BCK41	41~74	0.90/1.20
ACK5-065	1	50	-	28	65	43	100	BCK53	53~95	1.90
ACK6-065	1	64	-	36	65	43	114	BCK68 BCK100	68~150 100~203	1.00
BT40 ACK1-060/080	1	19	-	11	60/80	33/53	65.5/85.5	BCK20	20~36	1.10/1.20
-120/170	2	19	40	11	120/170	40	72.5			1.30/1.60
ACK2-060/080	1	24	-	14	60/80	33/53	68.5/88.5			1.20/1.20
-100/120	1	24	-	14	100/120	73/93	108.5/128.5	BCK25	25~47	1.30/1.40
-125/175	2	24	45	14	125/175	53	88.5			1.45/1.90
ACK3-060/080	1	31	-	18	60/80	33/53	73/93			1.20/1.20
-100/120	1	31	-	18	100/120	73/93	113/133	BCK32	32~60	1.30/1.50
-150/200	2	31	50	18	150/200	58	98			1.80/2.30
ACK4-080/100	1	39	-	22	80/100	53/73	100/120			1.40/1.60
-125	1	39	-	22	125	98	145	BCK41	41~74	1.80
-145/195	2	39	50	22	145/195	56	103			1.90/2.10
ACK5-080/100	1	50	-	28	80/100	53/73	110/130			1.60/2.00
-135	1	50	-	28	135	108	165	BCK53	53~95	2.50
ACK6-055	1	64	-	36	55	28	99	BCK68 BCK100	68~150 100~203	1.40
BT50 ACK1-100/125	1	19	-	11	100/125	62/87	94.5/119.5	BCK20	20~36	3.90/4.10
-170/220	2	19	40	11	170/220	40	73			4.50/4.90
ACK2-090/125	1	24	-	14	90/125	52/87	87.5/122.5	BCK25	25~47	4.00/4.10
-175/225	2	24	45	14	175/225	65	100.5			4.55/4.95
ACK3-090/125	1	31	-	18	90/125	52/87	92/127	BCK32	32~60	4.00/4.30
-200/240	2	31	50	18	200/240	80	120			4.95/5.30
ACK4-115/175	1	39	-	22	115/175	77/137	124/184			4.40/5.00
-195/235	2	39	50	22	195/235	80	127	BCK41	41~74	5.20/5.60
ACK5-090/135	1	50	-	28	90/135	52/97	109/154			4.20/5.20
-195	1	50	-	28	195	157	214	BCK53	53~95	6.10
ACK6-110	1	64	-	36	110	72	143			4.90
-170	1	64	-	36	170	132	203			6.10
-215	1	64	-	36	215	177	248	BCK68 BCK100	68~150 100~203	7.50
-255	1	64	-	36	255	217	288			9.00
-300	1	64	-	36	300	262	333			9.60
-350	1	64	-	36	350	312	383			11.50

Unit: mm

Boring System

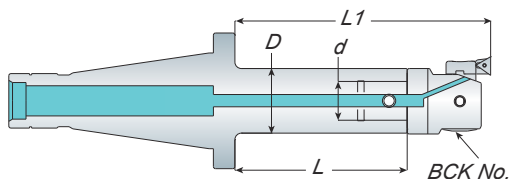
ACK Boring Holder + BCK Boring Head

ACK 搪孔刀桿 + BCK 精搪頭

BCK

BT / NT

series



Features

- When ordering, please specify the draw bolt with inch size or metric size.
- BCK20 ~ BCK100 boring range is from 20mm ~ 203mm.
- The ACK holder is coolant type
- The cutter and insert must be ordered separately.
- 請於訂購時，確認刀桿為英制或公制
- BCK20 ~ BCK100 其搪孔範圍為：20mm ~ 203mm
- 標準刀桿皆有中心出水功能
- 搪頭及刀片為另購品

Model No.	D	d	L	L1	BCK No.	Boring Range	Draw Bolt	Weight (kg)
NT40 ACK1-060/080	19	11	60/80	92.5/112.5	BCK20	20~36	5/8"-11 M16x2.0P	0.80/1.00
ACK2-060/080	24	14	60/80	95.5/115.5	BCK25	25~47		1.00/1.10
-100/120	24	14	100/120	135.5/155.5				1.20/1.30
ACK3-060/080	31	18	60/80	100/120	BCK32	32~60		1.10/1.30
-100/120	31	18	100/120	140/160				1.40/1.50
ACK4-080/100	39	22	80/100	127/147	BCK41	41~74		1.50/1.70
-125	39	22	125	172			1.90	
ACK5-080/100	50	28	80/100	137/157	BCK53	53~95	2.00/2.40	
-135	50	28	135	192			2.80	
ACK6-055	64	36	55	126	BCK68 BCK100	68~150 100~203	1.60	
NT50 ACK2-090/125	24	14	90/125	125.5/160.5	BCK25	25~47	1"-8 M24x3.0P	3.30/4.00
ACK3-090/125	31	18	90/125	130/165	BCK32	32~60		3.40/4.00
ACK4-115/175	39	22	115/175	162/222	BCK41	41~74		3.60/4.20
ACK5-090/135	50	28	90/135	147/192	BCK53	53~95		3.90/4.50
-195	50	28	195	252				5.40
ACK6-110	64	36	110	181	BCK68 BCK100	68~150 100~203		4.40
-170	64	36	170	241			5.70	
-215	64	36	215	286			7.20	
-255	64	36	255	326			7.60	

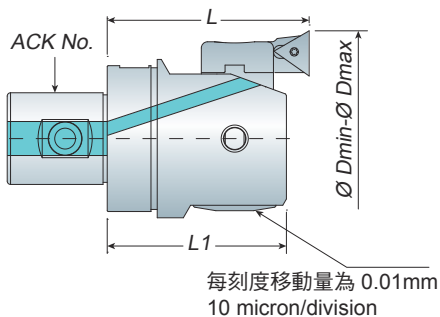
Unit: mm



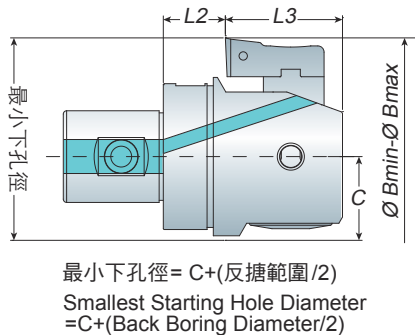
P77-BCK Cutter

P81-Adapter

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					

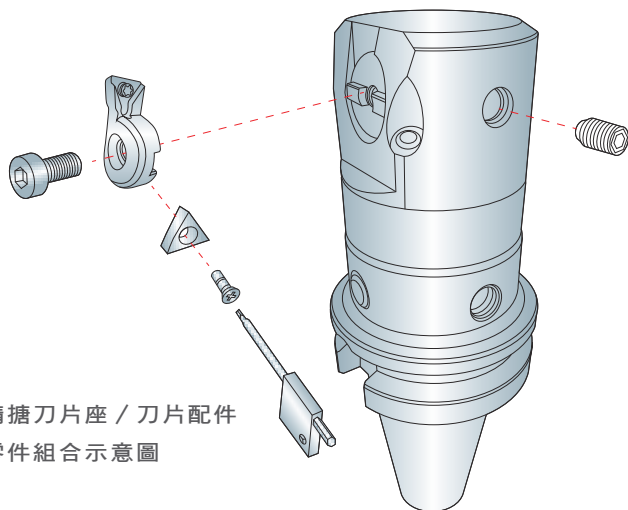
Unit: mm

Insert Holder / Insert / Spare Parts

刀片坐 / 刀片 / 備用零件

BCK

BT / NT series






精搪刀片座 / 刀片配件
零件組合示意圖



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								
BCK H1-2	BCK20-M3	2272.542						
BCK H1-3								
BCK H2-1								
BCK H2-2	BCK25-M3	2272.542	TP..0802	MS2205A	T7			
BCK H2-3								
BCK H3-1								
BCK H3-2	BCK32-M4	2272.552						
BCK H3-3								
BCK H4-1								
BCK H4-2	BCK41-M5	2272.562				CC..0602	MS2506A	T9
BCK H4-3								
BCK H5-1								
BCK H5-2	BCK53-M5	2272.582	TC..1102	MS2506A	T9			
BCK H5-3								
BCK H6-1								
BCK H6-2	BCK68-M8	2272.602				CC..09T3	MS4011A	T15
BCK H6-3								
BCK H6-1								
BCK H6-2	BCK100-M8	2272.602						
BCK H6-3								

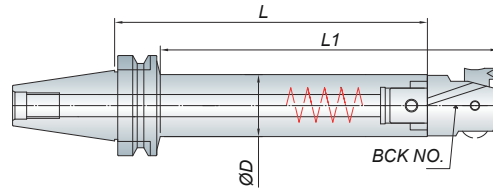
Unit: mm

BT / NT
series

ACK-
SD

Silent Damping Holder

內藏減震刀桿

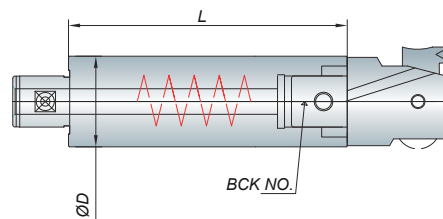


- Coolant through design.
- Suitable for using with the 6D cutting depth.
- Silent Damping special design could reduce the cutting vibration of the deep working process.
- Please do NOT combine with ANY extension adapter.
- The boring head and inserts must be ordered separately.
- 具中心出水功能
- 適用於，當加工深度為 D 的 6 倍
- 減震設計能有效的降低刀桿深孔加工時所產生的振動
- 不建議搭配一般延長桿及減震延長桿使用
- 塘頭和刀片為另購品

Model No.	BCK No.	D	L	L1	Weight (kg)
BT50 ACK3-220SD	BCK32	31	220	215	4.90
ACK4-252SD	BCK41	39	252	246	5.70
ACK5-315SD	BCK53	50	315	318	7.80
ACK6-380SD	BCK68	64	380	408	12.30

Unit: mm

Silent Damping Extension Adapter 減震延長桿



- Coolant through design
- Please do NOT combine with Silent Damping holder. Using with general ACK holder ONLY.
- 具中心出水功能
- 不建議搭配減震刀桿使用，請搭配一般 ACK 刀桿

Model No.	BCK No.	D	L	Weight (kg)
ACK3-110SD	BCK32	31	110	0.70
ACK4-120SD	BCK41	39	120	1.30
ACK5-150SD	BCK53	50	150	2.60
ACK6-180SD	BCK68	64	180	5.30

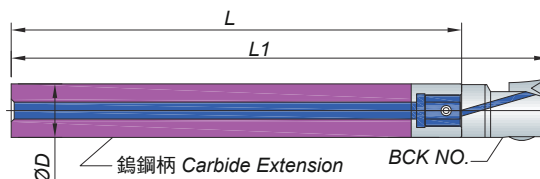
Unit: mm

Carbide Extension Adapter

鎢鋼延長接桿

ACK- W

BT / NT
series

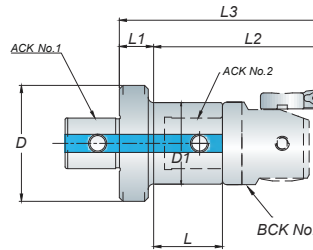
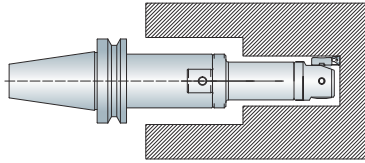


Features

- Coolant through design.
- L1 is the reference when boring head is mounted.
- 中心出水設計
- L1 為裝上搪頭之參考值

Model No.	BCK No.	D	L	L1	Weight (kg)
ST19-ACK1-110W	BCK20	19	110	142.50	0.45
-140W			140	172.50	0.60
-190W			190	222.50	0.80
-240W			240	272.50	1.00
ST24-ACK2-160W	BCK25	24	160	195.50	1.00
-220W			220	255.50	1.40
-290W			290	325.50	1.80
ST31-ACK3-200W	BCK32	31	200	210.00	2.20
-280W			280	320.00	3.00
-350W			350	390.00	3.70

Unit: mm



Features

- Coolant through design
- L2 (Effective Boring Depth) & L3 are numerical reference when boring head is mounted.
- 中心出水設計
- L2(有效加工深) & L3 為裝上搪頭之參考值



型號 Model No.	ACK No.1	ACK No.2	D	D1	L	L1	L2	L3	BCK No.	Weight (kg)
ACK2-ACK1-22	ACK2	ACK1	24	19	22.5	13.5	55	68.5	BCK20	0.10
ACK3-ACK1-27	ACK3	ACK1	31	19	27.5	13	60	73	BCK20	0.14
-ACK2-24	ACK3	ACK2	31	24	24.5	10	60	70	BCK25	0.16
ACK4-ACK1-42	ACK4	ACK1	39	19	42.5	15	75	90	BCK20	0.25
-ACK2-39	ACK4	ACK2	39	24	39.5	12	75	87	BCK25	0.28
-ACK3-35	ACK4	ACK3	39	31	35	12	75	87	BCK32	0.32
ACK5-ACK1-37	ACK5	ACK1	50	19	37.5	20	70	90	BCK20	0.38
-ACK2-34	ACK5	ACK2	50	24	34.5	17	70	87	BCK25	0.40
-64	ACK5	ACK2	50	24	64.5	17	100	117	BCK25	0.51
-ACK3-30	ACK5	ACK3	50	31	30	17	70	87	BCK32	0.54
-60	ACK5	ACK3	50	31	60	17	100	117	BCK32	0.64
-ACK4-23	ACK5	ACK4	50	39	23	17	70	87	BCK41	0.47
-53	ACK5	ACK4	50	39	53	17	100	117	BCK41	0.82
ACK6-ACK1-32	ACK6	ACK1	64	19	32.5	34	65	99	BCK20	0.84
-ACK2-44	ACK6	ACK2	64	24	44.5	16	80	96	BCK25	0.70
-79	ACK6	ACK2	64	24	79.5	16	115	131	BCK25	1.00
-ACK3-40	ACK6	ACK3	64	31	40	16	80	96	BCK32	0.75
-75	ACK6	ACK3	64	31	75	16	115	131	BCK32	1.12
-ACK4-33	ACK6	ACK4	64	39	33	16	80	96	BCK41	0.80
-68	ACK6	ACK4	64	39	68	16	115	131	BCK41	1.30
-ACK5-23	ACK6	ACK5	64	50	23	16	80	96	BCK53	0.90
-58	ACK6	ACK5	64	50	58	16	115	131	BCK53	1.30

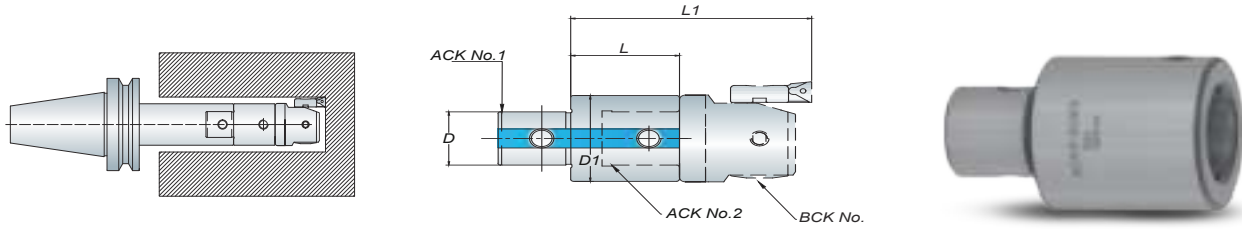
Unit: mm

ACK Extension Adapter + BCK Micro Boring Head

ACK 延長接桿 + BCK 精搪頭

ADAPTER

BT / NT
series



Features

- Coolant through design
- Notice: The possible vibration will be exist when the L/D1 rate is rising.
- 中心出水設計
- 請注意：當 L 除以 D1 的比率增加，可能會有震刀的情況產生



P77-BCK Cutter

型號 Model No.	ACK No.1	ACK No.2	D	D1	L	L1	BCK No.	Weight (kg)
ACK1-ACK1-20	ACK1	ACK1	11	19	20	52.5	BCK20	0.05
-30	ACK1	ACK1	11	19	30	62.5	BCK20	0.07
ACK2-ACK2-30	ACK2	ACK2	14	24	30	65.5	BCK25	0.10
-45	ACK2	ACK2	14	24	45	75.5	BCK25	0.15
ACK3-ACK3-30	ACK3	ACK3	18	31	30	70	BCK32	0.17
-45	ACK3	ACK3	18	31	45	85	BCK32	0.25
ACK4-ACK4-45	ACK4	ACK4	22	39	45	92	BCK41	0.40
-60	ACK4	ACK4	22	39	60	107	BCK41	0.53
ACK5-ACK5-60	ACK5	ACK5	28	50	60	117	BCK53	0.88
-90	ACK5	ACK5	28	50	90	147	BCK53	1.30
ACK6-ACK6-60	ACK6	ACK6	36	64	60	131	BCK68/BCK100	1.38
-100	ACK6	ACK6	36	64	100	171	BCK68/BCK100	2.30

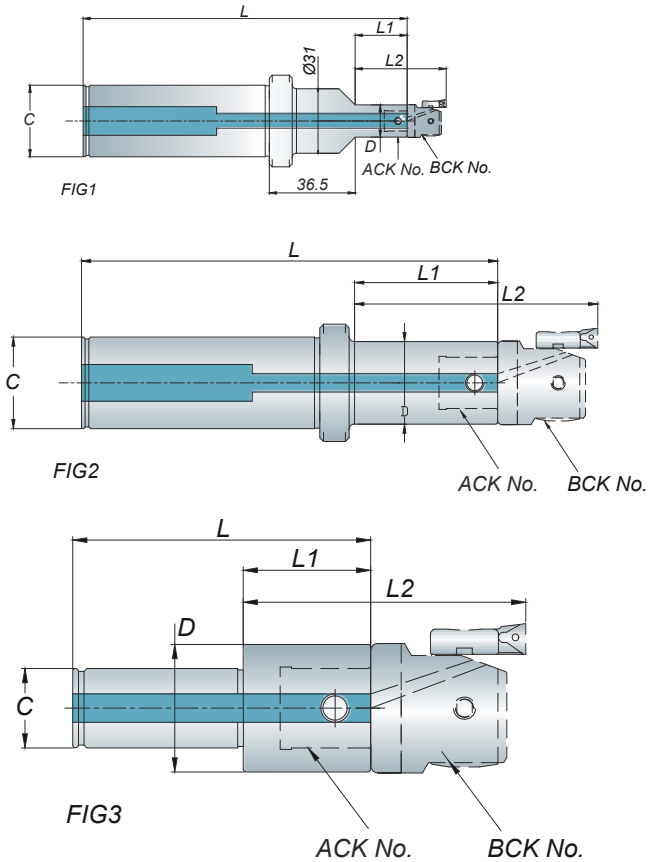
Unit: mm

BT / NT
series

ADAPTER

ACK Straight Shank Adapter + BCK Micro Boring Head

ACK 延長接桿 + BCK 精搪頭



Features

- Coolant through design
- Notice: The possible vibration will be exist when the L/D1 rate is rising.
- 中心出水設計
- 請注意：當 L 除以 D1 的比率增加，可能會有震刀的情況產生

型號 Model No.	FIG.	C	ACK No.	D	L	L1	L2	BCK No.	Weight (kg)
C32 ACK1-50	1	32	ACK1	19	157	50.5	83	BCK20	0.80
ACK2-70	2	32	ACK2	24	152.5	70.5	106	BCK25	0.80
ACK3-90	2	32	ACK3	31	149	90	130	BCK32	0.90
ACK4-85	3	32	ACK4	39	138	85	132	BCK41	1.00
ACK5-75	3	32	ACK5	50	128	75	132	BCK53	1.00
ACK6-60	3	32	ACK6	64	139	60	131	BCK68/BCK100	1.60
C42 ACK1-50	1	42	ACK1	19	157	50.5	83	BCK20	1.10
ACK2-70	2	42	ACK2	24	152.5	70.5	106	BCK25	1.10
ACK3-90	2	42	ACK3	31	149	90	130	BCK32	1.20
ACK4-85	3	42	ACK4	39	138	85	132	BCK41	1.30
ACK5-75	3	42	ACK5	50	128	75	132	BCK53	1.40
ACK6-60	3	42	ACK6	64	139	60	131	BCK68/BCK100	1.90

Unit: mm



P77-BCK Cutter

Large Micro Boring System

大孔徑精搪系列 Ø200~Ø620mm

BCK

BT / NT series

ZBCK Type



BCK Type



Boring Holder

大孔徑搪刀桿

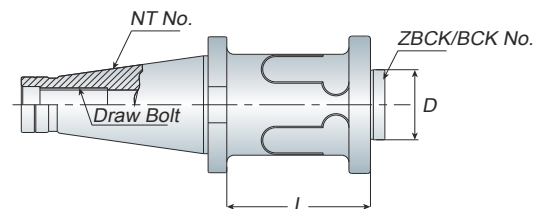
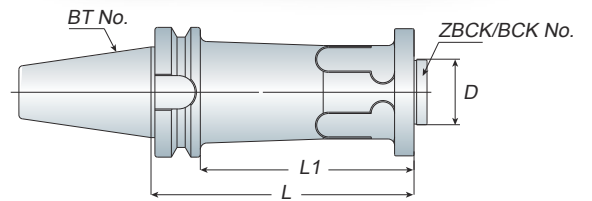


型號 Model No.	D	L	L1	適用刀頭 ZBCK/BCK No.	Weight (kg)
BT50 BST100	50	100	62		5.00
BST125	50	125	87	ZBCK200	5.30
BST150	50	150	112	ZBCK270	6.70
BST175	50	175	137	ZBCK340	7.30
BST200	50	200	162	ZBCK410	7.60
BST225	50	225	187	ZBCK480	8.30
BST250	50	250	212	ZBCK550	9.50
BST275	50	275	237	BCK200	9.90
BST300	50	300	262	BCK300	10.80
BST350	50	350	312	BCK400	13.50
BST400	50	400	362	BCK500	15.80

Unit: mm

型號 Model No.	D	L	適用刀頭 ZBCK/BCK No.	內孔牙 Draw Bolt	Weight (kg)
NT50 BST100	50	100			4.80
BST125	50	125	ZBCK200	1"-8 M24x3.0P	5.10
BST150	50	150	ZBCK270		6.50
BST175	50	175	ZBCK340		6.80
BST200	50	200	ZBCK410		7.30
BST225	50	225	ZBCK480		7.90
BST250	50	250	ZBCK550		8.70
BST275	50	275	BCK200		9.00
BST300	50	300	BCK300		9.90
BST350	50	350	BCK400		12.60
BST400	50	400	BCK500		13.50

Unit: mm



BT / NT
series

ZBCK

Large Micro Boring Head

大孔徑排齒式可調精搪刀頭



型號 Model No.	搪孔範圍 Boring Range	適用刀桿 BST Holder	L	連接盤 Connector	橫向滑板 Extension Slide	微調滑塊 Finish Slide	平衡塊 Balance Block	精搪頭 Micro Boring Head	刀片 Inserts
ZBCK200 (8.55kgs)	200~270	BST	135	CL180 (3.2kgs)	ES200-270 (3.2kgs)	ZFS200-620 2PCS/SET 2個1組 (1.3kgs)	BS41 (0.45kgs)	BCK41 (0.4kgs)	TC..1102
ZBCK270 (9.45kgs)	270~340				ES270-340 (4.1kgs)				
ZBCK340 (9.65kgs)	340~410				ES340-410 (4.3kgs)				
ZBCK410 (10.25kgs)	410~480				ES410-480 (4.9kgs)				
ZBCK480 (10.95kgs)	480~550				ES480-550 (5.6kgs)				
ZBCK550 (13.65kgs)	550~620	CL220 (4.8kgs)	ES550-620 (6.7kgs)						

Unit: mm

BCK

Large Micro Boring Head

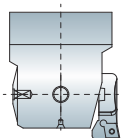
大孔徑精搪刀頭



型號 Model No.	搪孔範圍 Boring Range	適用刀桿 Holder	L	橫向滑板 Extension Slide	微調滑塊 Finish Slide	平衡塊 Balance Block	精搪頭 Micro Boring Head	刀片 Inserts
BCK200 (5.75kgs)	200~300	BST	106.5	ES-BCK200 (2.7kgs)	FS200-600 2PCS/SET 2個1組 (2.2kgs)	BS41 (0.45kgs)	BCK41 (0.4kgs)	TC..1102
BCK300 (7.85kgs)	300~400			ES-BCK300 (4.8kgs)				
BCK400 (8.75kgs)	400~500			ES-BCK400 (5.7kgs)				
BCK500 (10.05kgs)	500~600			ES-BCK500 (7.0kgs)				

Unit: mm

- 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



標準配件
BCKH4-1

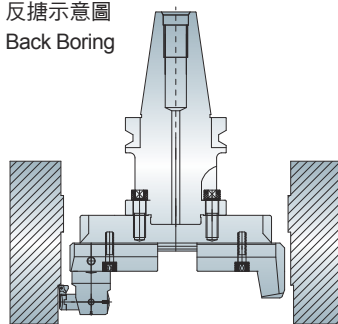


另購品
BCKH4-2
+Ø9

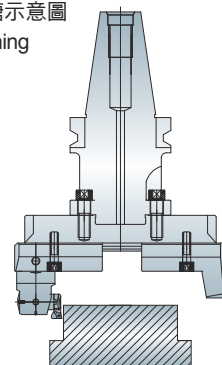


另購品
BCKH4-3
+Ø11

反搪示意圖
Back Boring



外搪示意圖
Turning



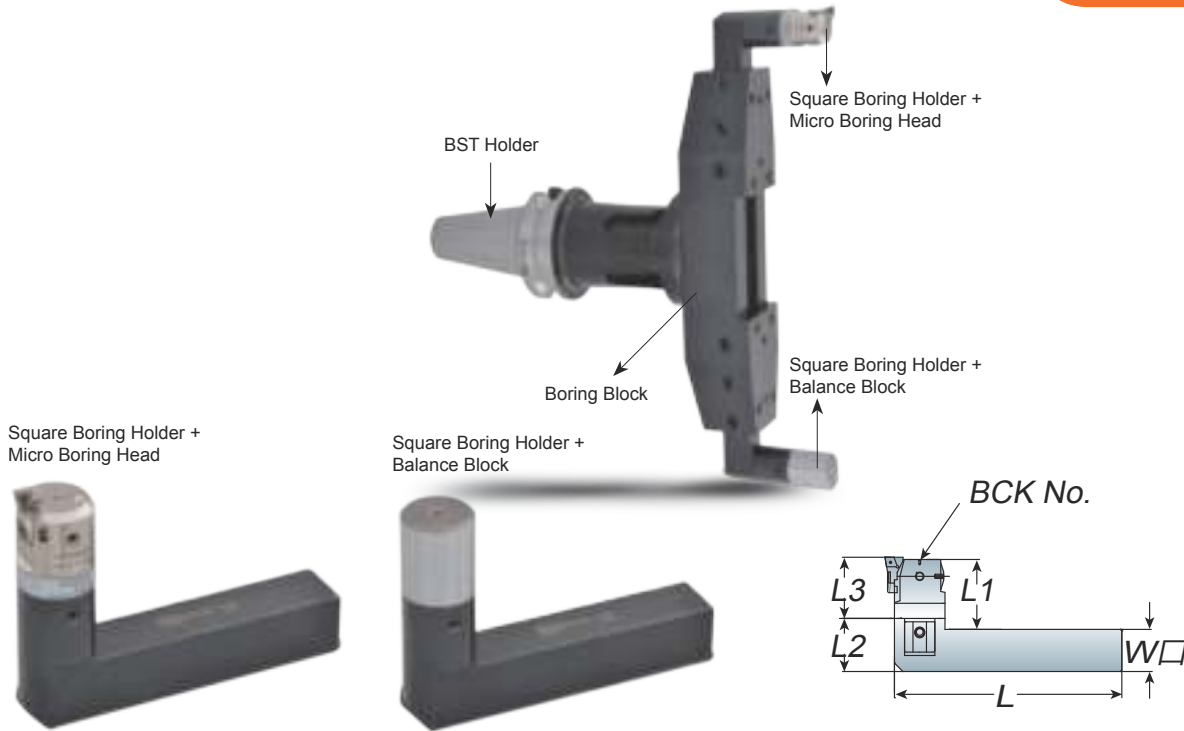
P84-BST Holder

Square Boring Holder

方型精搪刀桿

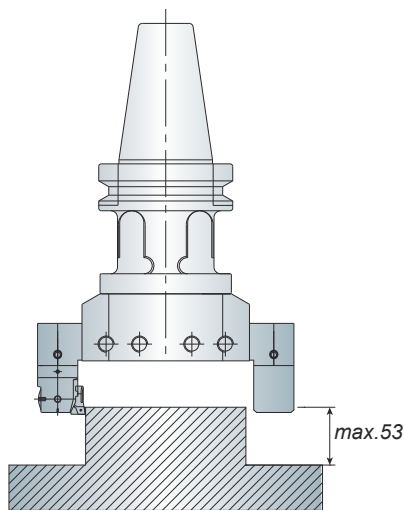
BCK

BT / NT
series

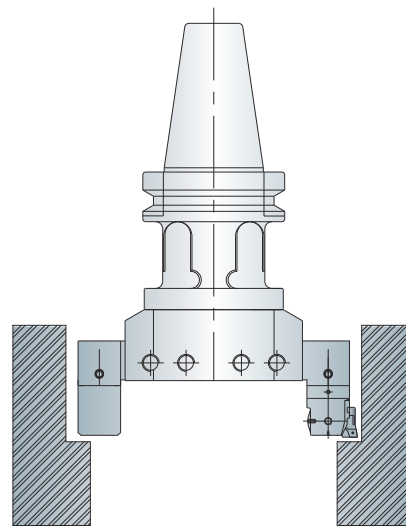


Model No.	L	L1	L2	L3	W □	Micro Boring Head	Balance Block	Inserts
S19-BCK25-135	135	51	34.5	35.5	19	BCK25	BS25	TP..0802..
S25-BCK25-135	135	45	34.5	35.5	25	BCK25	BS25	
S25-BCK32-135	135	71.5	56.5	40	25	BCK32	BS32	

Unit: mm



Turning
旋削外徑

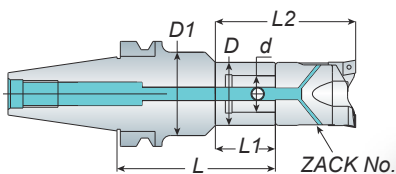
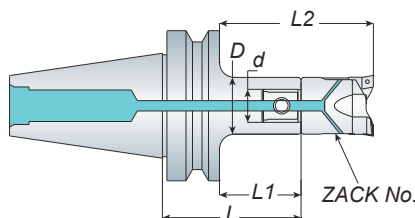


Turning
旋削內徑



P84-BST Holder P113-BST Boring Block

- Need to use with BST Boring Holder and Block together
- 需配合 BST 刀桿與刀盤做使用
- Micro Boring Head and Balance Block must be ordered separately
- 精搪頭與平衡塊為另購品



Features

- ZACK20 ~ ZACK90 boring range is from 20mm ~ 120mm.
- The ACK holder is coolant type.
- The cutter and insert must be ordered separately.
- ZACK20 ~ ZACK90 其搪孔範圍為：20mm ~ 120mm
- 標準刀桿皆有中心出水功能
- 搪頭和刀片為另購品



P89-ZACK Cutter

P90-Adapter

Model No.	FIG.	D	D1	d	L	L1	L2	ZACK No.	Boring Range	Weight (kg)
BT30 ACK1-070	2	19	31	11	70	40	78	ZACK20	20~26	0.60
ACK2-040/080	1	24	-	14	40/80	18/58	63/103	ZACK25	25~33	0.40/0.70
ACK3-040/075	1	31	-	18	40/75	18/53	68/103	ZACK32	32~42	0.70/0.90
ACK4-040/075	1	39	-	22	40/75	18/53	83/118	ZACK41	41~54	0.90/1.20
ACK5-065	1	50	-	28	65	43	113	ZACK53	53~70	1.90
ACK6-065	1	64	-	36	65	43	123/133	ZACK68 ZACK90	68~90 90~120	1.00
BT40 ACK1-060/080	1	19	-	11	60/80	33/53	71/91	ZACK20	20~26	1.10/1.20
-120/170	2	19	40	11	120/170	40	78	ZACK20	20~26	1.30/1.60
ACK2-060/080	1	24	-	14	60/80	33/53	78/98	ZACK25	25~33	1.20/1.20
-100/120	1	24	-	14	100/120	73/93	118/138	ZACK25	25~33	1.30/1.40
-125/175	2	24	45	14	125/175	53	98	ZACK25	25~33	1.45/1.90
ACK3-060/080	1	31	-	18	60/80	33/53	83/103	ZACK32	32~42	1.20/1.20
-100/120	1	31	-	18	100/120	73/93	123/143	ZACK32	32~42	1.30/1.50
-150/200	2	31	50	18	150/200	58	108	ZACK32	32~42	1.80/2.30
ACK4-080/100	1	39	-	22	80/100	53/73	118/138	ZACK41	41~54	1.40/1.60
-125	1	39	-	22	125	98	163	ZACK41	41~54	1.80
-145/195	2	39	50	22	145/195	56	121	ZACK41	41~54	1.90/2.10
ACK5-080/100	1	50	-	28	80/100	53/73	123/143	ZACK53	53~70	1.60/2.00
-135	1	50	-	28	135	108	178	ZACK53	53~70	2.50
ACK6-055	1	64	-	36	55	28	108/118	ZACK68 ZACK90	68~90 90~120	1.40
BT50 ACK1-100/125	1	19	-	11	100/125	62/87	100/125	ZACK20	20~26	3.90/4.10
-170/220	2	19	40	11	170/220	40	78	ZACK20	20~26	4.50/4.90
ACK2-090/125	1	24	-	14	90/125	52/87	97/132	ZACK25	25~33	4.00/4.10
-175/225	2	24	45	14	175/225	65	110	ZACK25	25~33	4.55/4.95
ACK3-090/125	1	31	-	18	90/125	52/87	102/137	ZACK32	32~42	4.00/4.30
-200/240	2	31	50	18	200/240	80	130	ZACK32	32~42	4.95/5.30
ACK4-115/175	1	39	-	22	115/175	77/137	142/202	ZACK41	41~54	4.40/5.00
-195/235	2	39	50	22	195/235	80	145	ZACK41	41~54	5.20/5.60
ACK5-090/135	1	50	-	28	90/135	52/97	122/170	ZACK53	53~70	4.20/5.20
-195	1	50	-	28	195	157	227	ZACK53	53~70	6.10
ACK6-110	1	64	-	36	110	72	152/162	ZACK68 ZACK90	68~90 90~120	4.90
-170	1	64	-	36	170	132	212/222	ZACK68 ZACK90	68~90 90~120	6.10
-215	1	64	-	36	215	177	257/267	ZACK68 ZACK90	68~90 90~120	7.50
-255	1	64	-	36	255	217	297/307	ZACK68 ZACK90	68~90 90~120	9.00
-300	1	64	-	36	300	262	342/352	ZACK68 ZACK90	68~90 90~120	9.60
-350	1	64	-	36	350	312	392/402	ZACK68 ZACK90	68~90 90~120	11.50

Unit:mm

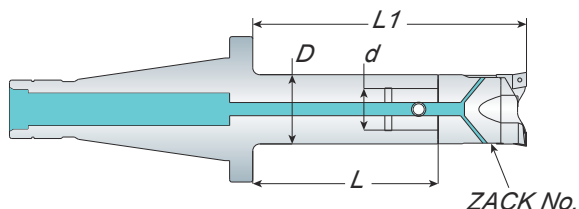
Boring System

ACK Boring Holder + ZACK Boring Head

ZACK

BT / NT series

ACK 搪孔刀桿 + ZACK 搪頭



Features

- ZACK20~ ZACK90 boring range is from 20mm ~ 120mm.
- The ACK holder is coolant type.
- The cutter and insert must be ordered separately.
- ZACK20 ~ ZACK90 其搪孔範圍為：20mm ~ 120mm
- 標準刀桿皆有中心出水功能
- 搪頭和刀片為另購品

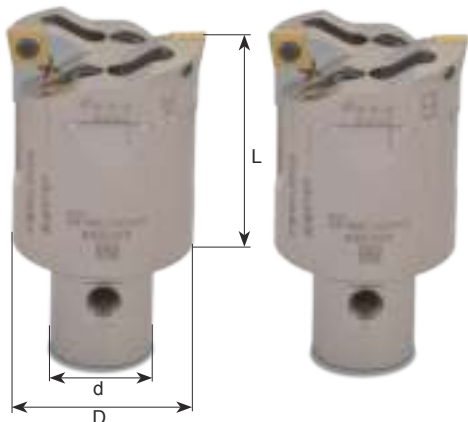


P89-ZACK Cutter

P90-Adapter

Model No.	D	d	L	L1	ZACK No.	Boring Range	Draw Bolt	Weight (kg)
NT40 ACK1-060/080	19	11	60/80	98/118	ZACK20	20~26	5/8"-11 M16x2.0P	0.80/1.00
ACK2-060/080	24	14	60/80	105/125	ZACK25	25~33		1.00/1.10
-100/120	24	14	100/120	145/165				1.20/1.30
ACK3-060/080	31	18	60/80	110/130	ZACK32	32~42		1.10/1.30
-100/120	31	18	100/120	150/170				1.40/1.50
ACK4-080/100	39	22	80/100	145/165	ZACK41	41~54		1.50/1.70
-125	39	22	125	190				1.90
ACK5-080/100	50	28	80/100	150/170	ZACK53	53~70		2.00/2.40
-135	50	28	135	205				2.80
ACK6-055	64	36	55	135	ZACK68 ZACK90	68~90 90~120		1.60
NT50 ACK2-090/125	24	14	90/125	135/170	ZACK25	25~33	1"-8 M24x3.0P	3.30/4.00
ACK3-090/125	31	18	90/125	140/175	ZACK32	32~42		3.40/4.00
ACK4-115/175	39	22	115/175	180/240	ZACK41	41~54		3.60/4.20
ACK5-090/135	50	28	90/135	160/205	ZACK53	53~70		3.90/4.50
-195	50	28	195	265				5.40
ACK6-110	64	36	110	190/200	ZACK68 ZACK90	68~90 90~120		4.40
-170	64	36	170	250/260				5.70
-215	64	36	215	295/305				7.20
-255	64	36	255	335/345				7.60

Unit:mm



型號 Model No.	搪孔範圍 Boring Range	d	D	L	適用刀桿 Tool Holder	刀片 Inserts	Weight (kg)
ZACK20	20~26	11	19	38	ACK1	CC..060208	0.13
ZACK25	25~33	14	24	45	ACK2	CC..060208	0.25
ZACK32	32~42	18	31	50	ACK3	CC..060208	0.30
ZACK41	41~54	22	39	65	ACK4	CC..09T308	0.56
ZACK53	53~70	28	50	70	ACK5	CC..09T308	0.98
ZACK68	68~90	36	64	80	ACK6	CC..120408	1.90
ZACK90	90~120	36	64	90	ACK6	CC..120408	2.80

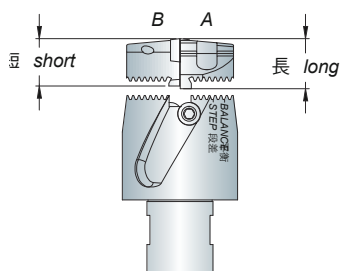
Unit:mm



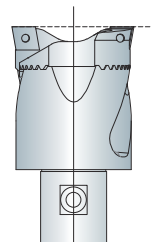
- ZACK 20~90: Coolant type boring head
- ZACK 20~90: 為出水型搪頭

Features

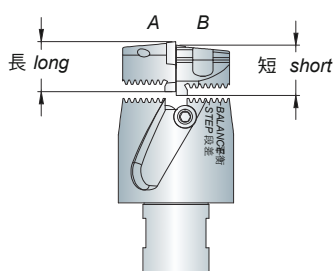
- Serrated design make good rigidity and suit for heavy cutting.
- Easy and speedy to adjust diameter smoothly by only 1 wrench
- Suitable for both of balanced cutting and stepped cutting
- For working material, the inserts divides the most common used 3 types: 1. IRON: KC850, 2. CAST IRON: KC5010, 3. ALUM: KC313.
- When ordering, please specify the material code. For example: CCMT 060208 KC850
- 排齒式設計具高剛性並適合重切削
- 一支扳手即可輕易快速的做直徑調整
- 適合平衡式與段差式兩種切削方式
- 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



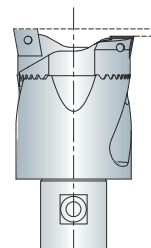
Balanced Cutting
平衡式切削



Make sure to align the ling to "BALANCE" mark
確認線條對齊「平衡」字樣上的線條



Stepped Cutting
段差式切削



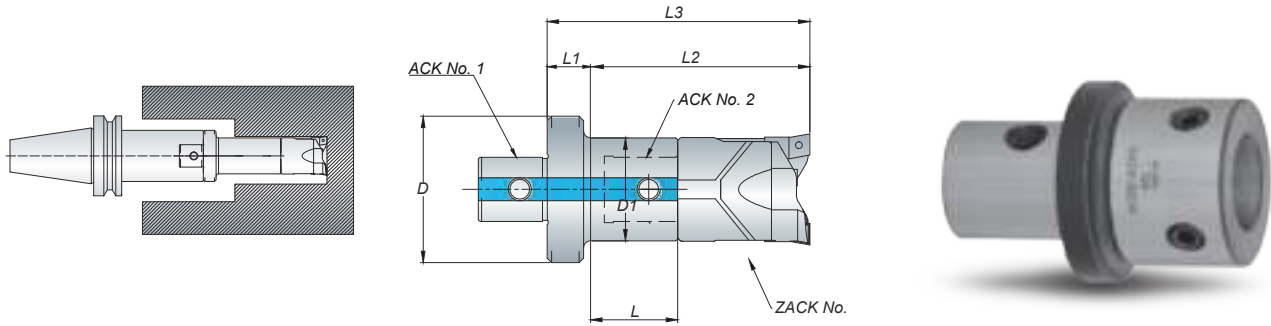
Make sure to align the ling to "STEP" mark
確認線條對齊「段差」字樣上的線條

ACK Stepped Adapter + ZACK Boring Head

ACK 縮徑接桿 + ZACK 粗搪頭

ADAPTER

BT / NT
series



Features

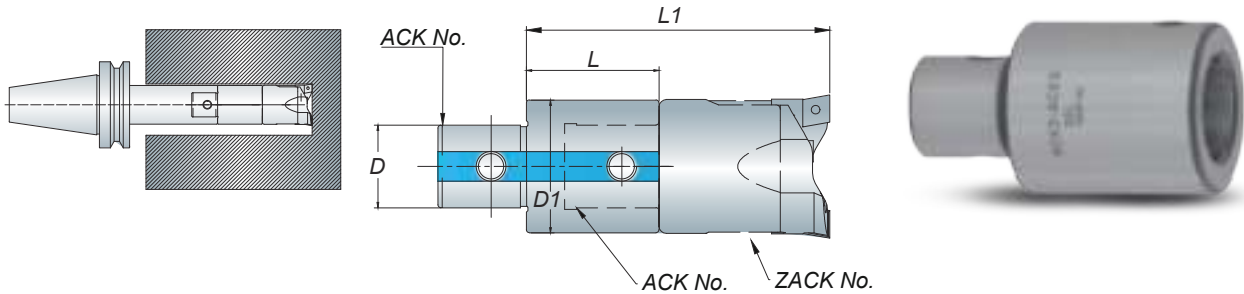
- Coolant through design L2 (Effective Boring Depth) & L3 are numerical reference when boring head is mounted.
- 中心出水設計 L2(有效加工深) & L3 為裝上搪頭之參考值



P89-ZACK Cutter

型號 Model No.	ACK No.1	ACK No.2	D	D1	L	L1	L2	L3	ZACK No.	Weight (kg)
ACK2-ACK1-22	ACK2	ACK1	24	19	22.5	13.5	60.5	74	ZACK20	0.10
ACK3-ACK1-27	ACK3	ACK1	31	19	27.5	13	65.5	78.5	ZACK20	0.14
-ACK2-24	ACK3	ACK2	31	24	24.5	10	69.5	79.5	ZACK25	0.16
ACK4-ACK1-42	ACK4	ACK1	39	19	42.5	15	80.5	95.5	ZACK20	0.25
-ACK2-39	ACK4	ACK2	39	24	39.5	12	84.5	96.5	ZACK25	0.28
-ACK3-35	ACK4	ACK3	39	31	35	12	85	97	ZACK32	0.32
ACK5-ACK1-37	ACK5	ACK1	50	19	37.5	20	75.5	95.5	ZACK20	0.38
-ACK2-34	ACK5	ACK2	50	24	34.5	17	79.5	96.5	ZACK25	0.40
-64	ACK5	ACK2	50	24	64.5	17	109.5	126.5	ZACK25	0.51
-ACK3-30	ACK5	ACK3	50	31	30	17	80	97	ZACK32	0.54
-60	ACK5	ACK3	50	31	60	17	110	127	ZACK32	0.64
-ACK4-23	ACK5	ACK4	50	39	23	17	88	105	ZACK41	0.47
-53	ACK5	ACK4	50	39	53	17	118	135	ZACK41	0.82
ACK6-ACK1-32	ACK6	ACK1	64	19	32.5	34	70.5	104.5	ZACK20	0.84
-ACK2-44	ACK6	ACK2	64	24	44.5	16	89.5	105.5	ZACK25	0.70
-79	ACK6	ACK2	64	24	79.5	16	124.5	140.5	ZACK25	1.00
-ACK3-40	ACK6	ACK3	64	31	40	16	90	106	ZACK32	0.75
-75	ACK6	ACK3	64	31	75	16	125	141	ZACK32	1.12
-ACK4-33	ACK6	ACK4	64	39	33	16	98	114	ZACK41	0.80
-68	ACK6	ACK4	64	39	68	16	133	149	ZACK41	1.30
-ACK5-23	ACK6	ACK5	64	50	23	16	93	109	ZACK53	0.90
-58	ACK6	ACK5	64	50	58	16	128	144	ZACK53	1.30

Unit: mm



Features

- Coolant through design
- Notice: The possible vibration will be exist when the L/D1 rate is rising.
- 中心出水設計
- 請注意：當 L 除以 D1 的比率增加，可能會有震刀的情況產生

型號 Model No.	ACK No.1	ACK No.2	D	D1	L	L1	ZACK No.	Weight (kg)
ACK1-ACK1-20	ACK1	ACK1	11	19	20	58	ZACK20	0.05
-30	ACK1	ACK1	11	19	30	68	ZACK20	0.07
ACK2-ACK2-30	ACK2	ACK2	14	24	30	75	ZACK25	0.10
-45	ACK2	ACK2	14	24	45	90	ZACK25	0.15
ACK3-ACK3-30	ACK3	ACK3	18	31	30	80	ZACK32	0.17
-45	ACK3	ACK3	18	31	45	95	ZACK32	0.25
ACK4-ACK4-45	ACK4	ACK4	22	39	45	110	ZACK41	0.40
-60	ACK4	ACK4	22	39	60	125	ZACK41	0.53
ACK5-ACK5-60	ACK5	ACK5	28	50	60	130	ZACK53	0.88
-90	ACK5	ACK5	28	50	90	60	ZACK53	1.30
ACK6-ACK6-60	ACK6	ACK6	36	64	60	140/150	ZACK68/ZACK100	1.38
-100	ACK6	ACK6	36	64	100	180/190	ZACK68/ZACK100	2.30

Unit: mm



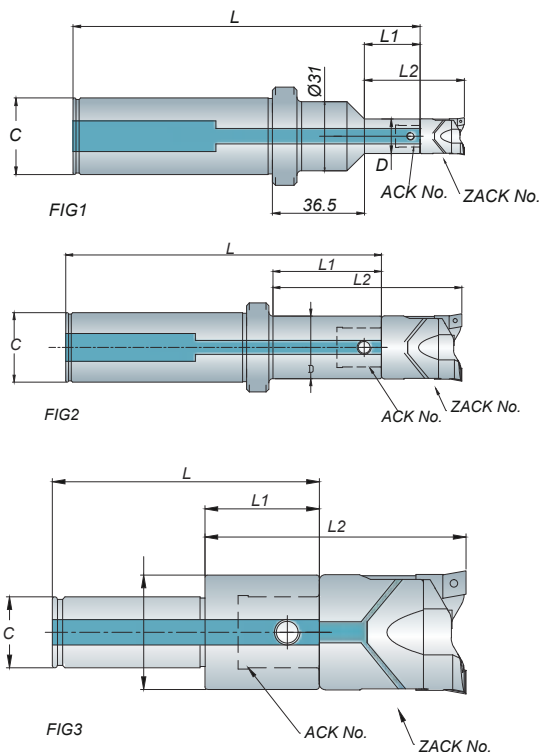
P89-ZACK Cutter

ACK Straight Shank Adapter + ZACK Boring Head

ACK 直柄接桿 + ZACK 粗搪頭

ADAPTER

BT / NT
series



Features

- Coolant through design
- Notice: The possible vibration will be exist when the L/D1 rate is rising.
- 中心出水設計
- 請注意：當 L 除以 D1 的比率增加，可能會有震刀的情況產生

型號 Model No.	FIG.	C	ACK No.	D	L	L1	L2	ZACK No.	Weight (kg)
C32 ACK1-50	1	32	ACK1	19	157	40.5	78.5	ZACK20	0.70
ACK2-70	2	32	ACK2	24	152.5	64.5	109.5	ZACK25	0.70
ACK3-90	2	32	ACK3	31	149	60	110	ZACK32	0.80
ACK4-85	3	32	ACK4	39	138	58	123	ZACK41	0.90
ACK5-75	3	32	ACK5	50	128	48	118	ZACK53	0.90
ACK6-60	3	32	ACK6	64	139	59	139/149	ZACK68/ZACK90	1.50
C42 ACK1-50	1	42	ACK1	19	157	40.5	79.5	ZACK20	1.00
ACK2-70	2	42	ACK2	24	152.5	64.5	109.5	ZACK25	1.00
ACK3-90	2	42	ACK3	31	149	60	110	ZACK32	1.10
ACK4-85	3	42	ACK4	39	138	58	123	ZACK41	1.20
ACK5-75	3	42	ACK5	50	128	48	118	ZACK53	1.30
ACK6-60	3	42	ACK6	64	139	59	139/149	ZACK68/ZACK90	1.80

Unit: mm



P89-ZACK Cutter

Ø120~Ø200mm

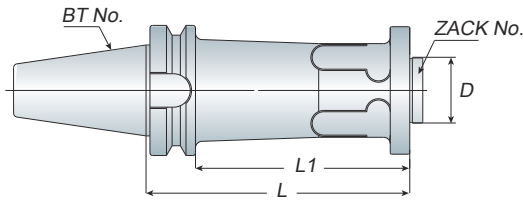


Ø200~Ø620mm



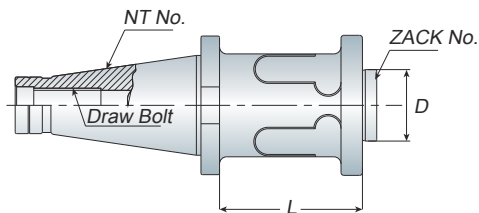
Boring Holder

大孔徑搪刀桿



Model No.	D	L	L1	ZACK No.	Weight (kg)
BT50 BST100	50	100	62		5.00
BST125	50	125	87		5.30
BST150	50	150	112		6.70
BST175	50	175	137	ZACK120	7.30
BST200	50	200	162	ZACK160	7.60
BST225	50	225	187	ZACK200	8.30
BST250	50	250	212	ZACK270	9.50
BST275	50	275	237	ZACK340	9.90
BST300	50	300	262	ZACK410	10.80
BST350	50	350	312	ZACK480	13.50
BST400	50	400	362	ZACK550	15.80

Unit:mm



Model No.	D	L	ZACK No.	Draw Bolt	Weight (kg)
NT50 BST100	50	100			4.80
BST125	50	125			5.10
BST150	50	150			6.50
BST175	50	175	ZACK120		6.80
BST200	50	200	ZACK160		7.30
BST225	50	225	ZACK200		7.90
BST250	50	250	ZACK270	1"-8	8.70
BST275	50	275	ZACK340	M24x3.0P	9.00
BST300	50	300	ZACK410		9.90
BST350	50	350	ZACK480		12.60
BST400	50	400	ZACK550		13.50

Unit:mm



Adjustable Balance Cutter

大孔徑排齒式可調粗搪刀頭

ZACK

BT / NT
series



ZACK120~160



ZACK200~550"

Features

- Serrated design make good rigidity and suit for heavy cutting.
- Easy and speedy to adjust diameter smoothly by only 1 wrench
- Suitable for both of balanced cutting and stepped cutting
- 排齒式設計具高剛性並適合重切削
- 一支扳手即可輕易快速的做直徑調整
- 適合平衡式與段差式兩種切削方式

型號 Model No.	搪孔範圍 Boring Range	適用刀桿 Holder	L	連接盤 Connector	橫向滑塊 Extension Slide	刀片座 Insert Holder	刀片 Inserts		
ZACK120 (4.0kgs)	120~160	BST	95	-	-	-	CC..120408		
ZACK160 (5.2kgs)	160~200			-	-	-			
ZACK200 (7.8kgs)	200~270			CL180 (3.2kgs)	ES200-270 (3.2kgs)	ZAK200-620 2PCS/SET 2個1組 (1.4kgs)			
ZACK270 (8.7kgs)	270~340							ES270-340 (4.1kgs)	
ZACK340 (8.9kgs)	340~410								ES340-410 (4.3kgs)
ZACK410 (9.5kgs)	410~480								
ZACK480 (10.2kgs)	480~550			CL220 (4.8kgs)	ES480-550 (5.6kgs)	ES550-620 (6.7kgs)			
ZACK550 (12.9kgs)	550~620							ES550-620 (6.7kgs)	

Unit:mm



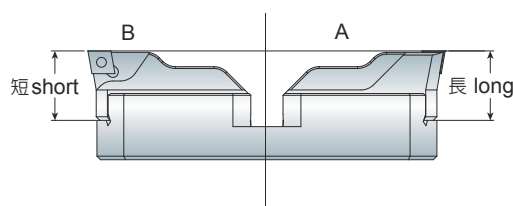
P93-BST Holder

Balanced Cutting

平衡式切削



Make sure to align the line to "BALANCE" mark
確認線條對齊 "平衡" 字樣上的線條

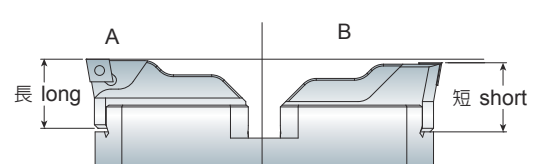


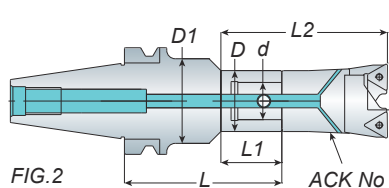
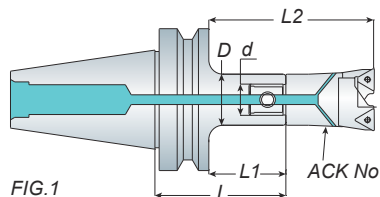
Stepped Cutting

段差式切削



Make sure to align the line to "STEP" mark
確認線條對齊 "段差" 字樣上的線條





Features

- ACK19 ~ ACK90 boring range is from 19mm ~ 122mm.
- The ACK holder is coolant type
- The cutter and insert must be ordered separately.
- ACK19 ~ ACK90 其搪孔範圍為：19mm ~ 122mm
- 標準刀桿皆有中心出水功能
- 搪頭和刀片為另購品



Model No.	FIG.	D	D1	d	L	L1	L2	ACK No.	Boring Range	Weight (kg)
BT30 ACK1-070	2	19	31	11	70	40	78	ACK19	19~25	0.60
ACK2-040/080	1	24	-	14	40/80	18/58	63/103	ACK25	25~33	0.40/0.70
ACK3-040/075	1	31	-	18	40/75	18/53	68/103	ACK32	32~42	0.70/0.90
ACK4-040/075	1	39	-	22	40/75	18/53	83/118	ACK40	40~55	0.90/1.20
ACK5-065	1	50	-	28	65	43	113	ACK52	52~70	1.90
ACK6-065	1	64	-	36	65	43	123 133	ACK68 ACK90	68~92 90~122	1.00
BT40 ACK1-060/080	1	19	-	11	60/80	33/53	71/91	ACK19	19~25	1.10/1.20
-120/170	2	19	40	11	120/170	40	78			1.30/1.6
ACK2-060/080	1	24	-	14	60/80	33/53	78/98			1.20/1.20
-100/120	1	24	-	14	100/120	73/93	118/138	ACK25	25~33	1.30/1.40
-125/175	2	24	45	14	125/175	53	98			1.45/1.90
ACK3-060/080	1	31	-	18	60/80	33/53	83/103			1.20/1.20
-100/120	1	31	-	18	100/120	73/93	123/143	ACK32	32~42	1.30/1.50
-150/200	2	31	50	18	150/200	58	108			1.80/2.30
ACK4-080/100	1	39	-	22	80/100	53/73	118/138			1.40/1.60
-125	1	39	-	22	125	98	163	ACK40	40~55	1.80
-145/195	2	39	50	22	145/195	56	121			1.90/2.10
ACK5-080/100	1	50	-	28	80/100	53/73	123/143	ACK52	52~70	1.60/2.00
-135	1	50	-	28	135	108	178			2.50
ACK6-055	1	64	-	36	55	28	108 118	ACK68 ACK90	68~92 90~122	1.40
BT50 ACK1-100/125	1	19	-	11	100/125	62/87	100/125	ACK19	19~25	3.90/4.10
-170/220	2	19	40	11	170/220	40	78			4.50/4.90
ACK2-090/125	1	24	-	14	90/125	52/87	97/132			4.00/4.10
-175/225	2	24	45	14	175/225	65	110	ACK25	25~33	4.55/4.95
ACK3-090/125	1	31	-	18	90/125	52/87	102/137			4.00/4.30
-200/240	2	31	50	18	200/240	80	130	ACK32	32~42	4.95/5.30
ACK4-115/175	1	39	-	22	115/175	77/137	142/202			4.40/5.00
-195/235	2	39	50	22	195/235	80	145	ACK40	40~55	5.20/5.60
ACK5-090/135	1	50	-	28	90/135	52/97	122/167	ACK52	52~70	4.20/5.20
-195	1	50	-	28	195	157	227			6.10
ACK6-110	1	64	-	36	110	72	152 162			4.90
-170	1	64	-	36	170	132	212 222			6.10
-215	1	64	-	36	215	177	257 267	ACK68 ACK90	68~92 90~122	7.50
-255	1	64	-	36	255	217	297 307			9.00
-300	1	64	-	36	300	262	342 352			9.60
-350	1	64	-	36	350	312	392 402			11.50

Unit:mm

Boring System

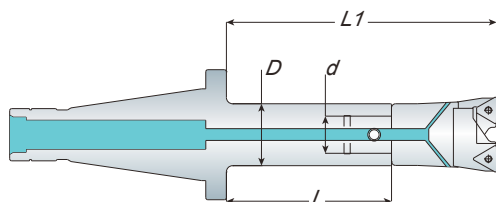
ACK Boring Holder + ACK Boring Head

ACK 搪孔刀桿 + ACK 搪頭

ACK

BT / NT

series



Features

- ACK19 ~ ACK90 boring range is from 19mm ~ 122mm.
- The ACK holder is coolant type
- The cutter and insert must be ordered separately.
- ACK19 ~ ACK90 其搪孔範圍為：19mm ~ 122mm
- 標準刀桿皆有中心出水功能
- 搪頭和刀片為另購品



P97- ACK Cutter

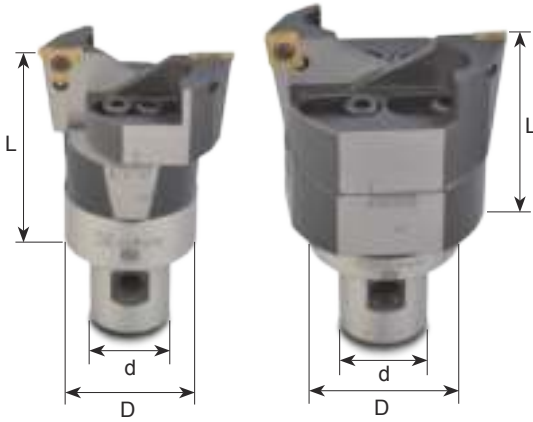
P98 - Adapter

Model No.	D	d	L	L1	ACK No.	Boring Range	Draw Bolt	Weight (kg)
NT40 ACK1-060/080	19	11	60/80	98/118	ACK19	19~25	5/8"-11 M16x2.0P	0.80/1.00
ACK2-060/080	24	14	60/80	105/125	ACK25	25~33		1.00/1.10
-100/120	24	14	100/120	145/165				1.20/1.30
ACK3-060/080	31	18	60/80	110/130	ACK32	32~42		1.10/1.30
-100/120	31	18	100/120	150/170				1.40/1.50
ACK4-080/100	39	22	80/100	145/165	ACK40	40~55		1.50/1.70
-125	39	22	125	190				1.90
ACK5-080/100	50	28	80/100	150/170	ACK52	52~70		2.00/2.40
-135	50	28	135	205				2.80
ACK6-055	64	36	55	135 145	ACK68 ACK90	68~92 90~122		1.60
NT50 ACK2-090/125	24	14	90/125	135/170	ACK25	25~33	1"-8 M24x3.0P	3.30/4.00
ACK3-090/125	31	18	90/125	140/175	ACK32	32~42		3.40/4.00
ACK4-115/175	39	22	115/175	180/240	ACK40	40~55		3.60/4.20
ACK5-090/135	50	28	90/135	160/205	ACK52	52~70		3.90/4.50
-195	50	28	195	265				5.40
ACK6-110	64	36	110	190 200	ACK68 ACK90	68~92 90~122		4.40
-170	64	36	170	250 260				5.70
-215	64	36	215	295 305				7.20
-255	64	36	255	335 345				7.60

Unit:mm

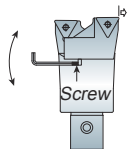
Adjustable Balance Cutter

雙刃粗搪刀頭 Ø19 ~ Ø122mm



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.



型號 Model No.	搪孔範圍 Boring Range		d	D	L	適用刀桿 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，確認刀高為 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

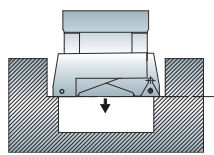


FIG.1

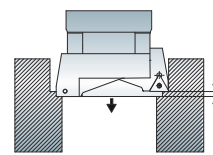
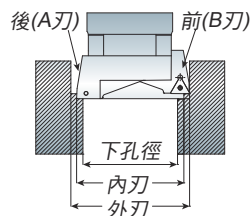


FIG.2



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:

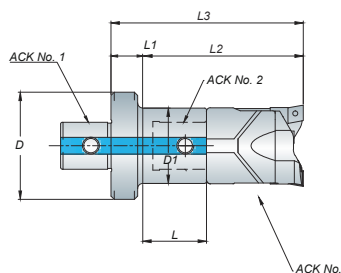
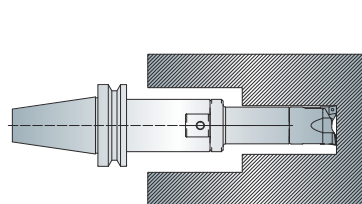
AB Type will be approx double removal than
AA Type.

ACK Stepped Adapter + ACK Boring Head

ACK 縮徑接桿 + ACK 粗搪頭

ADAPTER

BT / NT
series



Features

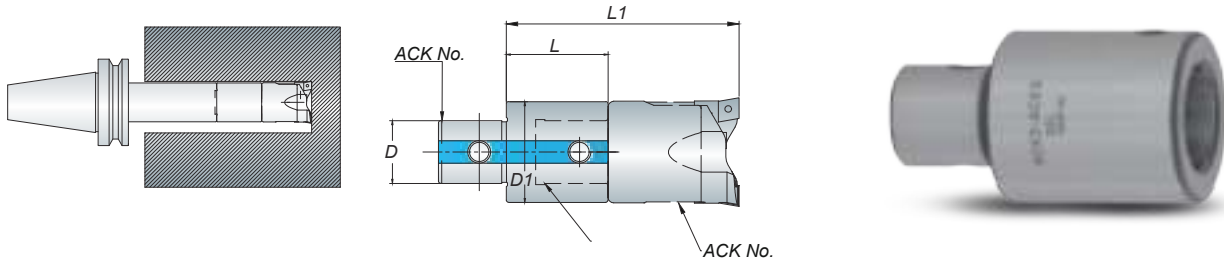
- Coolant through design
- L2 (Effective Boring Depth) & L3 are numerical reference when boring head is mounted.
- 中心出水設計
- L2(有效加工深) & L3 為裝上搪頭之參考值



P97- ACK Cutter

型號 Model No.	ACK No.1	ACK No.2	D	D1	L	L1	L2	L3	ACK No.	Weight (kg)
ACK2-ACK1-22	ACK2	ACK1	24	19	22.5	13.5	60.5	74	ACK19	0.10
ACK3-ACK1-27	ACK3	ACK1	31	19	27.5	13	65.5	78.5	ACK19	0.14
-ACK2-24	ACK3	ACK2	31	24	24.5	10	69.5	79.5	ACK25	0.16
ACK4-ACK1-42	ACK4	ACK1	39	19	42.5	15	80.5	95.5	ACK19	0.25
-ACK2-39	ACK4	ACK2	39	24	39.5	12	84.5	96.5	ACK25	0.28
-ACK3-35	ACK4	ACK3	39	31	35	12	85	97	ACK32	0.32
ACK5-ACK1-37	ACK5	ACK1	50	19	37.5	20	75.5	95.5	ACK19	0.38
-ACK2-34	ACK5	ACK2	50	24	34.5	17	79.5	96.5	ACK25	0.40
-64	ACK5	ACK2	50	24	64.5	17	109.5	126.5	ACK25	0.51
-ACK3-30	ACK5	ACK3	50	31	30	17	80	97	ACK32	0.54
-60	ACK5	ACK3	50	31	60	17	110	127	ACK32	0.64
-ACK4-23	ACK5	ACK4	50	39	23	17	88	105	ACK40	0.47
-53	ACK5	ACK4	50	39	53	17	118	135	ACK40	0.82
ACK6-ACK1-32	ACK6	ACK1	64	19	32.5	34	70.5	104.5	ACK19	0.84
-ACK2-44	ACK6	ACK2	64	24	44.5	16	89.5	105.5	ACK25	0.70
-79	ACK6	ACK2	64	24	79.5	16	124.5	140.5	ACK25	1.00
-ACK3-40	ACK6	ACK3	64	31	40	16	90	106	ACK32	0.75
-75	ACK6	ACK3	64	31	75	16	125	141	ACK32	1.12
-ACK4-33	ACK6	ACK4	64	39	33	16	98	114	ACK40	0.80
-68	ACK6	ACK4	64	39	68	16	133	149	ACK40	1.30
-ACK5-23	ACK6	ACK5	64	50	23	16	93	109	ACK53	0.90
-58	ACK6	ACK5	64	50	58	16	128	144	ACK53	1.30

Unit: mm



Features

- Coolant through design
- Notice: The possible vibration will be exist when the L/D1 rate is rising.
- 中心出水設計
- 請注意：當 L 除以 D1 的比率增加，可能會有震刀的情況產生



P97- ACK Cutter

型號 Model No.	ACK No.1	ACK No.2	D	D1	L	L1	ACK No.	Weight (kg)
ACK1-ACK1-20	ACK1	ACK1	11	19	20	58	ACK19	0.05
-30	ACK1	ACK1	11	19	30	68	ACK19	0.07
ACK2-ACK2-30	ACK2	ACK2	14	24	30	75	ACK25	0.10
-45	ACK2	ACK2	14	24	45	90	ACK25	0.15
ACK3-ACK3-30	ACK3	ACK3	18	31	30	80	ACK32	0.17
-45	ACK3	ACK3	18	31	45	95	ACK32	0.25
ACK4-ACK4-45	ACK4	ACK4	22	39	45	110	ACK40	0.40
-60	ACK4	ACK4	22	39	60	125	ACK40	0.53
ACK5-ACK5-60	ACK5	ACK5	28	50	60	130	ACK53	0.88
-90	ACK5	ACK5	28	50	90	60	ACK53	1.30
ACK6-ACK6-60	ACK6	ACK6	36	64	60	140/150	ACK68/ ACK90	1.38
-100	ACK6	ACK6	36	64	100	180/190	ACK68/ ACK90	2.30

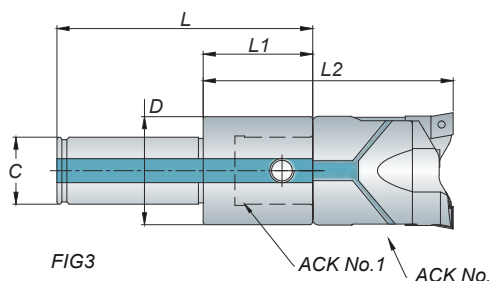
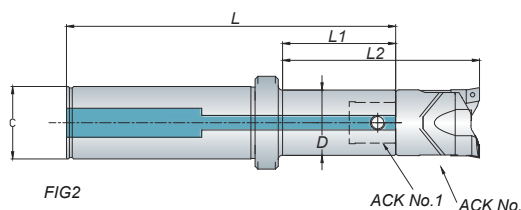
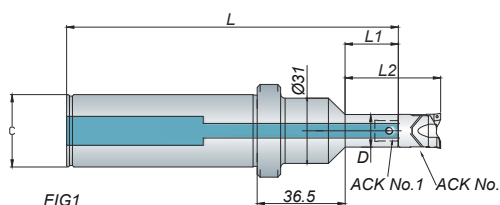
Unit: mm

ACK Straight Shank Adapter + ACK Boring Head

ACK 直柄接桿 + ACK 粗搪頭

ADAPTER

BT / NT
series



Features

- Coolant through design
- Notice: The possible vibration will be exist when the L/D1 rate is rising.
- 中心出水設計
- 請注意：當 L 除以 D1 的比率增加，可能會有震刀的情況產生

型號 Model No.	FIG.	C	ACK No. 1	D	L	L1	L2	ACK No.	Weight (kg)
C32 ACK1-50	1	32	ACK1	19	157	40.5	78.5	ACK19	0.70
ACK2-70	2	32	ACK2	24	152.5	64.5	109.5	ACK25	0.70
ACK3-90	2	32	ACK3	31	149	60	110	ACK32	0.80
ACK4-85	3	32	ACK4	39	138	58	123	ACK40	0.90
ACK5-75	3	32	ACK5	50	128	48	118	ACK53	0.90
ACK6-60	3	32	ACK6	64	139	59	139/149	ACK68/ACK90	1.50
C42 ACK1-50	1	42	ACK1	19	157	40.5	79.5	ACK19	1.00
ACK2-70	2	42	ACK2	24	152.5	64.5	109.5	ACK25	1.00
ACK3-90	2	42	ACK3	31	149	60	110	ACK32	1.10
ACK4-85	3	42	ACK4	39	138	58	123	ACK40	1.20
ACK5-75	3	42	ACK5	50	128	48	118	ACK53	1.30
ACK6-60	3	42	ACK6	64	139	59	139/149	ACK68/ACK90	1.80

Unit: mm



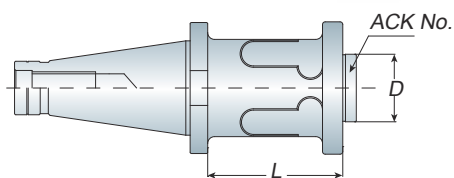
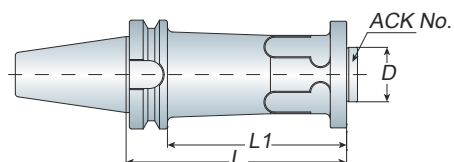
P97-ACK Cutter

BT / NT
series

BST

Adjustable Balance Cutter Tool Holder

大口徑雙刀粗搪刀桿



- 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

Model No.	D	L	L1	ACK Cutter No.	Weight (kg)
BT50 BST100	50	100	62		5.00
BST125	50	125	87		5.30
BST150	50	150	112		6.70
BST175	50	175	137	ACK120	7.30
BST200	50	200	162	ACK160	7.60
BST225	50	225	187	ACK200	8.30
BST250	50	250	212	ACK300	9.50
BST275	50	275	237	ACK400	9.90
BST300	50	300	262		10.80
BST350	50	350	312		13.50
BST400	50	400	362		15.80

Unit: mm

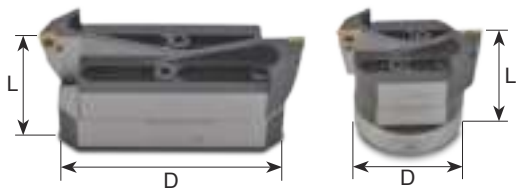
Model No.	D	L	ACK Cutter No.	Draw Bolt	Weight (kg)
NT50 BST100	50	100			4.80
BST125	50	125			5.10
BST150	50	150			6.50
BST175	50	175	ACK120		6.80
BST200	50	200	ACK160		7.30
BST225	50	225	ACK200	1"-8	7.90
BST250	50	250	ACK300	M24x3.0P	8.70
BST275	50	275	ACK400		9.00
BST300	50	300			9.90
BST350	50	350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

Unit: mm

ACK

Adjustable Balance Cutter

大口徑雙刀粗搪刀頭 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，確認刀高為 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	170	75		5.20
ACK200-T	200	300	170	75		5.20
ACK300-C	300	400	270	75		7.90
ACK300-T	300	400	270	75		7.90
ACK400-C	400	500	370	75		9.70
ACK400-T	400	500	370	75		9.70

Unit: mm

Insert For ACK Adjustable Balance Cutter

刀片 - ACK 粗搪刀頭適用

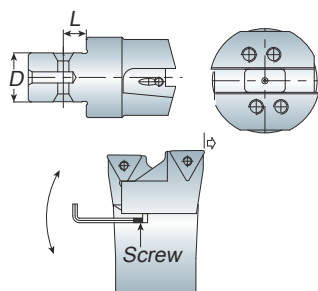
TIPS

BT / NT
series

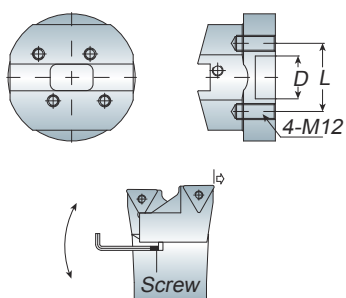


- For working material, the inserts divides the most common used 3 types: 1. IRON: KC850, 2. CAST IRON: KC5010, 3. ALUM: KC313.
- When ordering, please specify the material code. For example: CCMT 060208 KC850
- 依加工材質，刀片可區分為三種：
1. 鐵：KC850，2. 鑄鐵：KC5010，3. 鋁：KC313
- 訂購時，請註明材質編號
例：CCMT 060208 KC850

ACK19~90 TYPE



ACK120~400 TYPE



Side lock screw for ACK holder

ACK 刀桿側邊固定螺絲

Model No.	ACK No.	L
ACK1-M5	1	6
ACK2-M6	2	6
ACK3-M6	3	8
ACK4-M8	4	12
ACK5-M10	5	14
ACK6-M12	6	18

Unit: mm

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

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

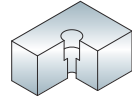
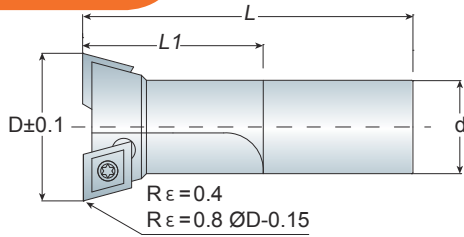
Unit: mm

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	Model No.	L	Dimension			Teeth	Insert 
									D R ϵ =0.4	d	L1		
12	TB12-S16-120		TB12-S16-160		TB12-S16-200				11.8			1	
13	TB13-S16-120	120	TB13-S16-160	160	TB13-S16-200	200			12.8	16	30		
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		TB16-S16-160		TB16-S16-200				15.8				
17	TB17-S16-120		TB17-S16-160		TB17-S16-200				16.8			2	CC..060204
18	TB18-S16-120		TB18-S16-160		TB18-S16-200		TB18-S16-250		17.8				
19	TB19-S16-120	120	TB19-S16-160	160	TB19-S16-200	200	TB19-S16-250	250	18.8	16	30		
20	TB20-S16-120		TB20-S16-160		TB20-S16-200		TB20-S16-250		19.8				
21	TB21-S16-120		TB21-S16-160		TB21-S16-200		TB21-S16-250		20.8				
22	TB22-S16-120		TB22-S16-160		TB22-S16-200		TB22-S16-250		21.8				
23	TB23-S20-130		TB23-S20-160		TB23-S20-200		TB23-S20-250		22.8			2	
24	TB24-S20-130	130	TB24-S20-160	160	TB24-S20-200	200	TB24-S20-250	250	23.8	20	30		
25	TB25-S20-130		TB25-S20-160		TB25-S20-200		TB25-S20-250		24.8				
26	TB26-S20-130		TB26-S20-160		TB26-S20-200		TB26-S20-250		25.8				
27	TB27-S20-130	130	TB27-S20-160	160	TB27-S20-200	200	TB27-S20-250	250	26.8	20	30		
28	TB28-S20-130		TB28-S20-160		TB28-S20-200		TB28-S20-250		27.8			2	
29	TB29-S20-130		TB29-S20-160		TB29-S20-200		TB29-S20-250		28.8				
30	TB30-S25-160		TB30-S25-200		TB30-S25-250		TB30-S25-300		29.8				
31	TB31-S25-160		TB31-S25-200		TB31-S25-250		TB31-S25-300		30.8				
32	TB32-S25-160		TB32-S25-200		TB32-S25-250		TB32-S25-300		31.8				
33	TB33-S25-160		TB33-S25-200		TB33-S25-250		TB33-S25-300		32.8				
34	TB34-S25-160		TB34-S25-200		TB34-S25-250		TB34-S25-300		33.8			2	
35	TB35-S25-160	160	TB35-S25-200	200	TB35-S25-250	250	TB35-S25-300	300	34.8	25	40		
36	TB36-S25-160		TB36-S25-200		TB36-S25-250		TB36-S25-300		35.8				
37	TB37-S25-160		TB37-S25-200		TB37-S25-250		TB37-S25-300		36.8				
38	TB38-S25-160		TB38-S25-200		TB38-S25-250		TB38-S25-300		37.8				
39	TB39-S25-160		TB39-S25-200		TB39-S25-250		TB39-S25-300		38.8				
40	TB40-S25-160		TB40-S25-200		TB40-S25-250		TB40-S25-300		39.8			2	CC..09T304
41	TB41-S32-200		TB41-S32-250		TB41-S32-300		TB41-S32-300		40.8				
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	200	TB45-S32-250	250	TB45-S32-300	300		350	44.8	32	45		
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		TB51-S32-250		TB51-S32-300				50.8			2	
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	200	TB54-S32-250	250	TB54-S32-300	300			53.8	32	45		
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				

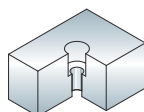
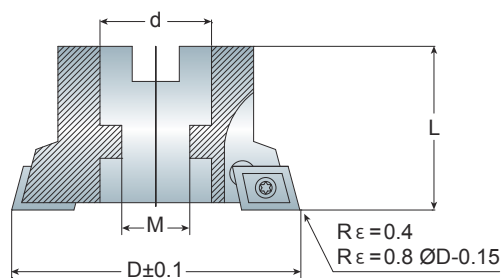
Unit: mm

Fixed Rough Boring Bar

固定式粗搪刀桿

TB

BT / NT
series








Boring/孔加工



Features

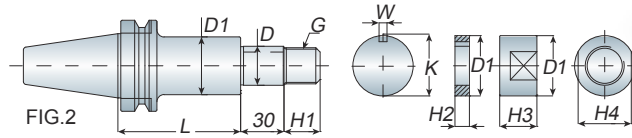
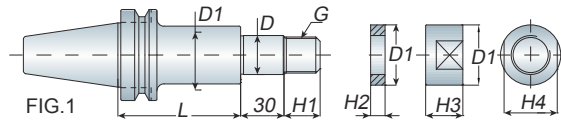
- For working material, the inserts divide the most common used 3 types: 1. IRON: KC850, 2. CAST IRON: KC5010, 3. ALUM: KC313
- When ordering, please specify the material code. For example: CCMT120404 KC850
- 依加工材質，刀片可區分為三種：1. 鐵：KC850，2. 鑄鐵：KC5010，3. 鋁：KC313
- 訂購時，請註明材質編號例：CCMT120404 KC850

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		CC..09T304		CC..120404	44.8	2
46	TB46-22.0-CC09					45.8	
47	TB47-22.0-CC09					46.8	
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	CC..09T304		CC..120404	50.8	2
52	TB52-22.0-CC09	TB52-25.4-CC09				51.8	
55	TB55-22.0-CC09	TB55-25.4-CC09				54.8	
57	TB57-22.0-CC09	TB57-25.4-CC09				56.8	
59	TB59-22.0-CC09	TB59-25.4-CC09				58.8	
60	TB60-22.0-CC09	TB60-25.4-CC09	CC..09T304	TB60-22.0-CC12	CC..120404	59.8	2
62	TB62-22.0-CC09	TB62-25.4-CC09		TB62-25.4-CC12		61.8	
63	TB63-22.0-CC09	TB63-25.4-CC09		TB63-25.4-CC12		62.8	
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	
69	TB69-22.0-CC09	TB69-25.4-CC09	CC..09T304	TB69-25.4-CC12	CC..120404	68.8	2
70	TB70-22.0-CC09	TB70-25.4-CC09		TB70-25.4-CC12		69.8	
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	
76		TB76-25.4-CC09	CC..09T304	TB76-25.4-CC12	CC..120404	75.8	2
78		TB78-25.4-CC09		TB78-25.4-CC12		77.8	
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	CC..09T304	TB84-25.4-CC12	CC..120404	83.8	2
85		TB85-25.4-CC09		TB85-25.4-CC12		84.8	
88		TB88-25.4-CC09		TB88-25.4-CC12		87.8	
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

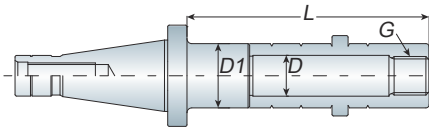
Unit: mm



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

Side Cutter Holder

側銑刀桿



Model No.	D	D1	L	G	Draw Bolt
NT30 SCA25.4-L	25.4	40	75, 100, 125, 150	M25x1.5P	1/2"-12
SCA31.75-L	31.75	46	75, 100, 125, 150	M31x2.0P	M12x1.75P
NT40 SCA25.4-L	25.4	40	75, 100, 125, 150 175, 200	M25x1.5P	5/8"-11
SCA31.75-L	31.75	46	75, 100, 125, 150 175, 200	M31x2.0P	M16x2.0P
NT50 SCA25.4-L	25.4	40	75, 100, 125, 150 175, 200	M25x1.5P	1"-8 M24x3.0P
SCA31.75-L	31.75	46	75, 100, 125, 150 175, 200	M31x2.0P	
SCA38.1-L	38.1	55	75, 100, 125, 150 175, 200	M36x2.0P	

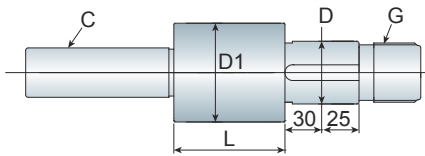
Unit: mm

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)



Straight Shank

直柄側銑刀桿

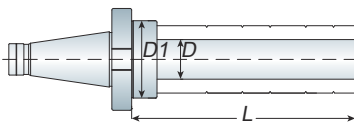
Model No.	C	D	D1	L	G
C20 SCA25.4-075/100	20	25.4	40	20/45	M25x1.5P
-125/150	20	25.4	40	70/95	
C25 SCA25.4-075/100	25	25.4	40	20/45	
-125	25	25.4	40	70	
C32 SCA25.4-075/100	32	25.4	40	20/45	
-125/150	32	25.4	40	70/95	

Unit: mm



Horizontal Mill Arbor

橫銑刀桿



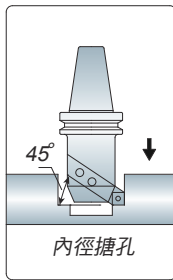
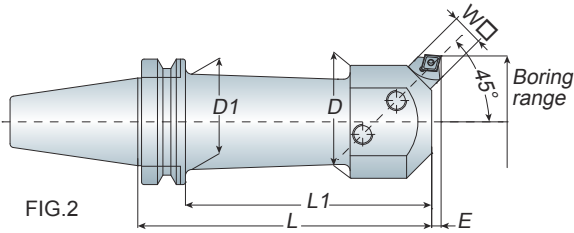
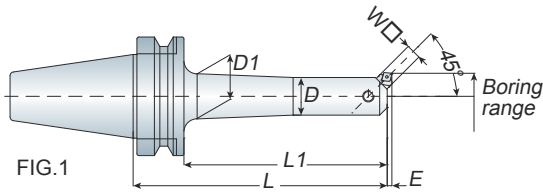
Model No.	D	D1	L	Spacer thickness	Draw Bolt
NT40 HMA25.4/22/27-L	25.4 22 27	40	500 600	5, 10, 20, 40, 60, 80	5/8"-11 M16x2.0P
HMA31.75/32-L	31.75 32	46	500 600	5, 10, 20, 40, 60, 80	
NT50 HMA25.4/27-L	25.4 27	40	600	5, 10, 20, 40, 60, 80	1"-8 M24x3.0P
HMA31.75/32-L	31.75 32	46	600	5, 10, 20, 40, 60, 80	
HMA38.1-L	38.1	55	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 □ .
- 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



P114 Boring Cutter

Model No.	FIG.	Boring Range		D	D1	L	L1	E	W □	Weight (kg)
		Min.	Max.							
BT40 BSA025-135	1	25	38	20	24	135	108	1	8	1.40
BSA030-150	1	30	42	24	28	150	123	1.6	8	1.60
BSA038-165	1	38	52	30	36	165	138	2.6	10	2.00
BSA050-165	1	50	65	40	48	165	138	3	13	2.50
-210	1	50	65	40	48	210	183	3	13	2.90
BSA062-165	1	62	90	50	58	165	138	2	16	3.20
-225	1	62	90	50	58	225	198	2	16	4.20
BSA072-165	2	72	110	60	60	165	138	2.4	19	3.90
-225	2	72	110	60	60	225	198	2.4	19	5.20
BSA090-165	2	90	125	75	75	165	138	4	19	4.60
-210	2	90	125	75	75	210	183	4	19	5.30
BT50 BSA025-135	1	25	38	20	24	135	97	1	8	4.20
BSA030-165	1	30	42	24	28	165	127	1.6	8	4.40
BSA038-180	1	38	52	30	36	180	142	2.6	10	4.80
-230	1	38	52	30	36	230	192	2.6	10	5.10
BSA042-210	1	42	56	34	38	210	172	2	10	5.20
-240	1	42	56	34	38	240	202	2	10	5.60
BSA050-180	1	50	65	40	48	180	142	3	13	5.40
-240	1	50	65	40	48	240	202	3	13	6.20
-270	1	50	65	40	48	270	232	3	13	6.50
-300	1	50	65	40	48	300	262	3	13	6.80
BSA062-195	1	62	90	50	58	195	157	2	16	6.40
-240	1	62	90	50	58	240	202	2	16	7.20
-270	1	62	90	50	58	270	232	2	16	7.80
-300	1	62	90	50	58	300	262	2	16	8.30
BSA072-195	1	72	110	60	68	195	157	2.4	19	7.30
-240	1	72	110	60	68	240	202	2.4	19	8.50
-285	1	72	110	60	68	285	247	2.4	19	9.60
-320	1	72	110	60	68	320	282	2.4	19	9.70
BSA090-210	1	90	125	75	74	210	172	4	19	8.60
-250	1	90	125	75	74	250	212	4	19	9.80
-300	1	90	125	75	74	300	262	4	19	11.10
BSA105-195	2	105	160	90	76	195	157	3	25	8.60
-285	2	105	160	90	76	285	247	3	25	11.60

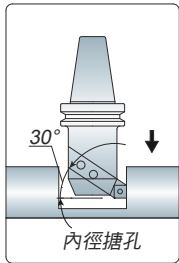
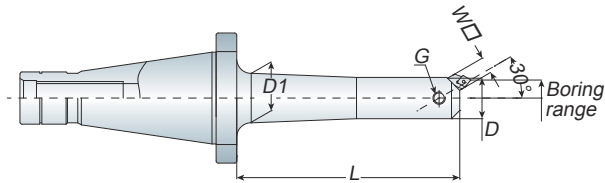
Unit: mm

Rough Boring Holder

粗搪刀桿

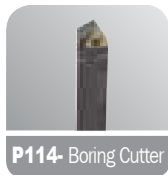
BSA

BT / NT series



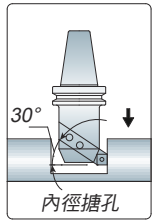
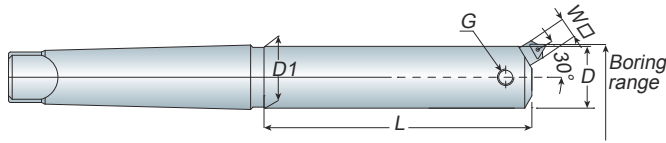
Features

- 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



Model No.	Boring Range		D	D1	L	W □	G	Draw Bolt	Weight (kg)
	Min.	Max.							
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



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 □ .
- MTA-BSA is produced by order.
- 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
- MTA-BSA 為訂單生產

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



P114 Boring Cutter

Rough Boring Holder

粗搪刀桿

BSB

BT / NT
series

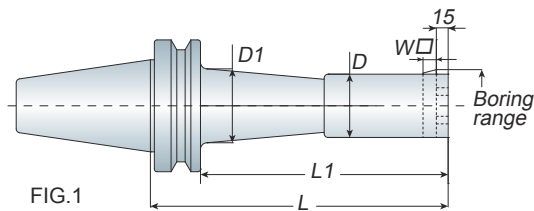


FIG.1

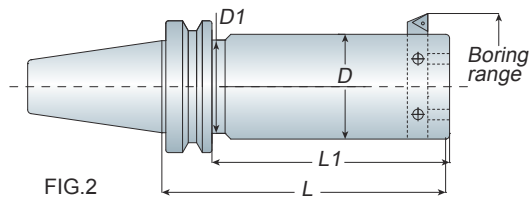
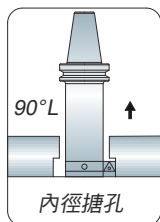


FIG.2



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



P114 Boring Cutter

Model No.	FIG.	Boring Range		D	D1	L	L1	W □	Weight (kg)
		Min.	Max.						
BT40 BSB025-135	1	25	38	20	24	135	108	8	1.40
BSB038-165	1	38	52	30	36	165	138	10	2.00
BSB050-165	1	50	65	40	48	165	138	13	2.80
-210	1	50	65	40	48	210	183	13	3.40
BSB062-165	1	62	90	50	56	165	138	16	3.20
-225	1	62	90	50	56	225	198	16	4.50
BSB072-165	2	72	110	60	60	165	138	19	4.40
-225	2	72	110	60	60	225	198	19	5.30
BSB090-165	2	90	125	75	75	165	138	19	5.10
-210	2	90	125	75	75	210	183	19	6.30
BT50 BSB025-135	1	25	38	20	24	135	97	8	4.20
BSB038-180	1	38	52	30	38	180	142	10	4.90
-230	1	38	52	30	38	230	192	10	5.30
BSB042-210	1	42	56	34	38	210	172	10	5.40
-240	1	42	56	34	38	240	202	10	5.60
BSB050-180	1	50	65	40	48	180	142	13	5.60
-240	1	50	65	40	48	240	202	13	6.10
-270	1	50	65	40	48	270	232	13	6.70
-300	1	50	65	40	48	300	262	13	7.20
BSB062-195	1	62	90	50	58	195	157	16	6.40
-240	1	62	90	50	58	240	202	16	7.50
-270	1	62	90	50	58	270	232	16	7.70
-300	1	62	90	50	58	300	262	16	8.00
-330	1	62	90	50	58	330	292	16	8.40
BSB072-195	1	72	110	60	68	195	157	19	8.00
-240	1	72	110	60	68	240	202	19	8.60
-285	1	72	110	60	68	285	247	19	9.60
BSB090-210	1	90	125	75	80	210	172	19	8.90
-250	1	90	125	75	80	250	212	19	10.80
-300	1	90	125	75	80	300	262	19	12.40
BSB105-195	2	105	160	90	80	195	157	25	9.50
-285	2	105	160	90	80	285	247	25	12.20

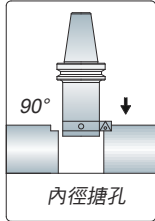
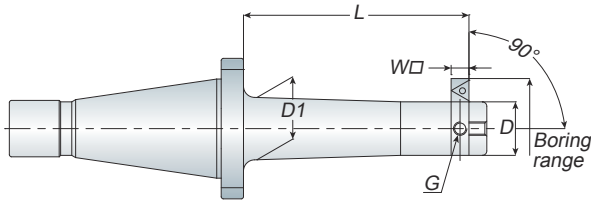
Unit: mm

BT / NT
series

BSB

Rough Boring Holder

粗搪刀桿



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



P114- Boring Cutter

Model No.	Boring Range		D	D1	L	W □	G	Draw Bolt	Weight (kg)
	Min.	Max.							
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	

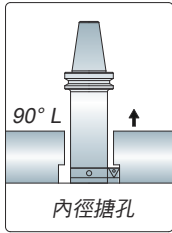
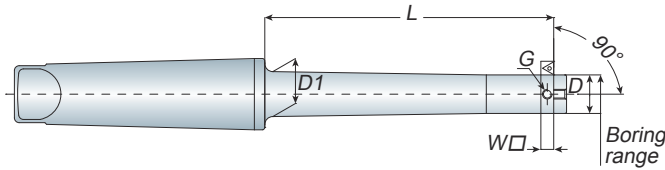
Unit: mm

Rough 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 □ .
- MTA-BSB is produced by order.
- 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
- MTA-BSA 為訂單生產



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

BT / NT
series

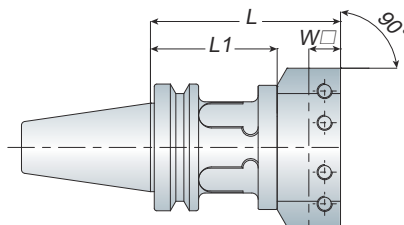
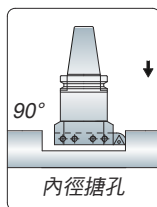
BST

Large Size Rough Boring Holder

大孔徑粗搪刀桿



- 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

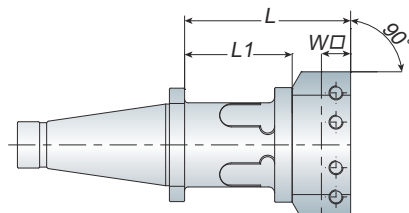
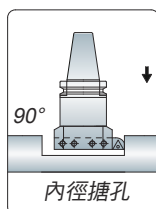


Model No.	L1	L	Weight (kg)
BT50 BST100	100	150	5.00
BST150	150	200	6.70
BST200	200	250	7.60
BST250	250	300	9.50
BST300	300	350	10.80
BST350	350	400	13.50

Unit: mm



- 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



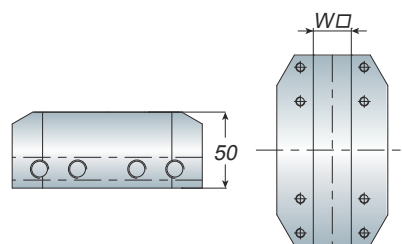
Model No.	L1	L	Draw Bolt	Weight (kg)
NT50 BST100	100	150	1"-8 M24x3.0P	4.80
BST150	150	200		6.50
BST200	200	250		7.30
BST250	250	300		8.70
BST300	300	350		9.90
BST350	350	400		12.60

Unit: mm



Boring Block

刀盤



- 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		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

- Also has Aluminum boring block type, it is suitable for fine boring
- 另有鋁製刀盤可供選購，適用於精修



P114 Boring Cutter

Throw Away Boring Cutter

捨棄式搪刀架

TBS TSBS SBS

BT / NT
series

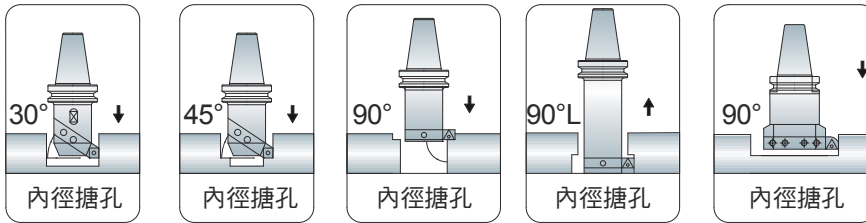
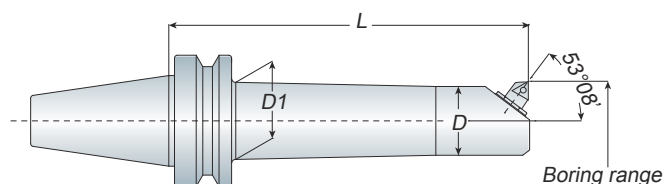


FIG.	Insert Shape	FIG. 1	Insert	FIG. 2	Insert	FIG. 2	Insert	Dimension		
		Model No.		Model No.		Model No.		H	W	L
1		TBS306	CC..0602..	TSBS306	TC..0902..	SBS306	TP..0902..	6	6	55
		TBS308	CC..0602..	TSBS308	TC..0902..	SBS308	TP..0902..	8	8	55
		TBS310	CC..0602..	TSBS310	TC..0902..	SBS310	TP..0902..	10	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
		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
		TBS919	CC..1204..	TSBS919	TC..16T3..	SBS919	TP..1603..	19	19	140
		TBS925	CC..1204..	TSBS925	TC..16T3..	SBS925	TP..1603..	25	25	150
2		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
		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



- Boring head must be ordered separately.

- 精搪頭為另購品



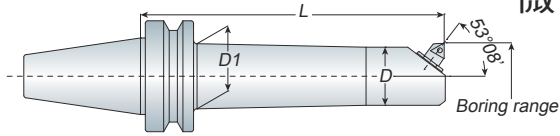
P118- Fine Boring Head

Model No.	Boring Range		D	D1	L	Boring Head	Weight (kg)
	Min.	Max.					
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

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



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



P118 Fine Boring Head



Square Micro Boring Holder

方型精搪刀桿

MBT

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

Unit: mm



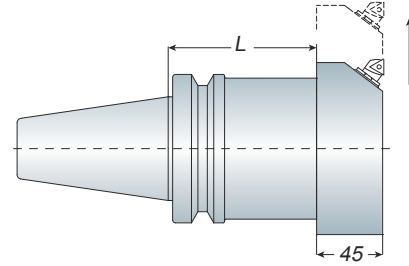
- Boring head must be ordered separately.
- 精搪頭為另購品

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

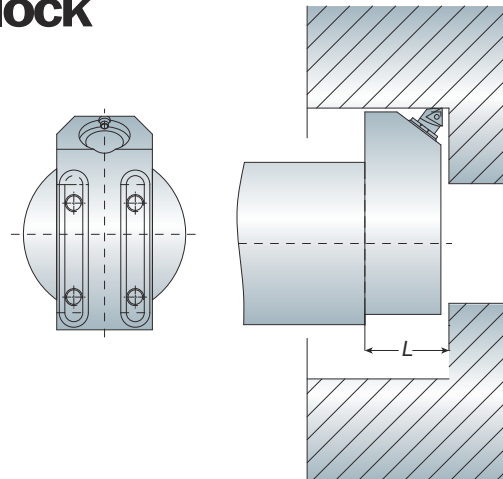
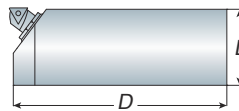
Unit: mm



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

Boring Block

刀盤



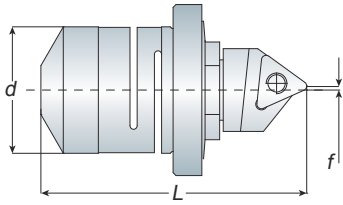
P118-Fine Boring Head

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

TSA

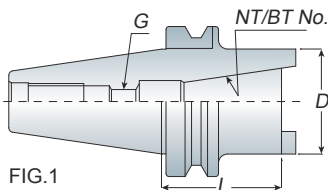


FIG.1

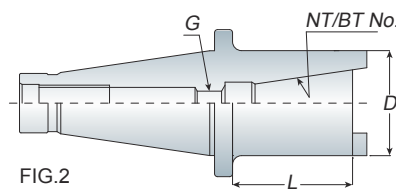


FIG.2

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



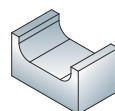
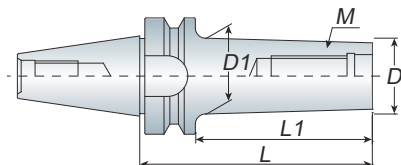
- Use the adapter to switch the taper shank.
- When ordering, please specify the draw bolt of NT shank with inch size or metric size.
- 使用轉接器作錐度轉換
- 請於訂購時，確認 NT 刀桿為英制或公制

BT / NT
series

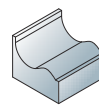
AMD

Screw-in Endmill Holder

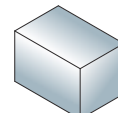
圓刀銑刀桿



R角加工



曲面加工



平面加工



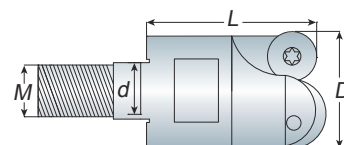
Model No.	M	D	D1	L1	L	Weight (kg)
BT40 AMD122-080	6	11	12	53	80	1.10
-100	6	11	12	73	100	1.20
AMD123-080	6	11	12	53	80	1.20
AMD162-080	8	13	16	53	80	1.20
-100	8	13	16	73	100	1.30
AMD202-080	10	18	20	53	80	1.20
-100	10	18	20	73	100	1.30
AMD253-080	12	21	25	53	80	1.30
-100	12	21	25	73	100	1.40
AMD354-080	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..	MS2004A	-	-	T6
RD072-D162-MD14-23	8.5	16	8	23	2					
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	RD..0702..	MS2506E	-	-	T8
RD072-D254-MD23-35	12.5	25	12	35	4					
RD072-D264-MD23-35	12.5	26	12	35	4					
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..	MS3509A	MC35-143	MS3509A	T15

Unit: mm



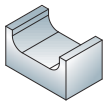
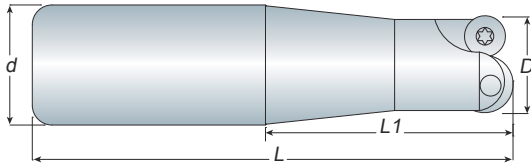
P121- Inserts

Corner Rounding End Mills

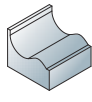
圓刃銑刀

RD

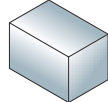
BT / NT
series



R角加工



曲面加工



平面加工



P121- Inserts

Model No.	Dimension				Teeth	Insert	Screw	Wrench
	d	D	L	L1				
RD051-D092-S08-100	8	9	100	12	2	RD..0501..	MS2003A	T6
RD051-D102-S10-100	10	10	100	18	2			
RD051-D112-S10-100	10	11	100	15	2	RD..0501..	MS2004A	T6
RD051-D122-S12-100	12	12	100	22	2			
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			
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..	MS2506E	T8
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-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-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-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			

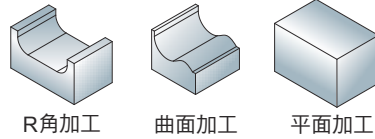
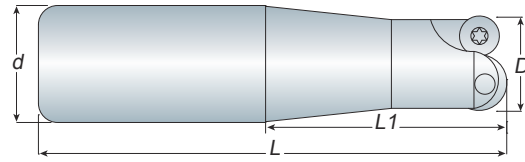
Unit: mm

BT / NT
series

RD

Corner Rounding End Mills

圓刃銑刀



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					
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..	MS3509A	-	-	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..	MS3509A	MC35-143	MS3509A	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

Inserts For Corner Rounding End Mills

刀片 - RD 圓刃銑刀適用



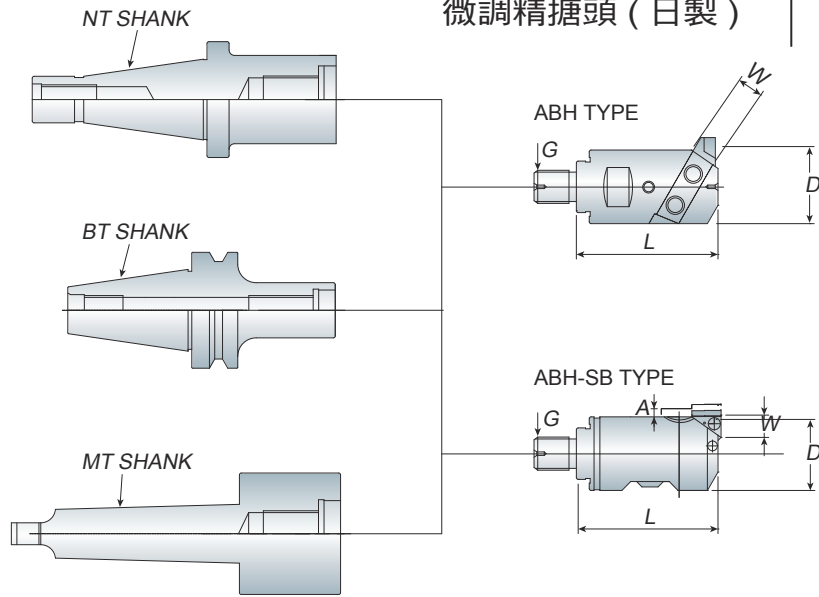
- Safety Insert recommended.

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

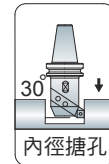
Fine Boring Head (KKS)

微調精搪頭 (日製)



ABH

BT / NT series



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

- 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

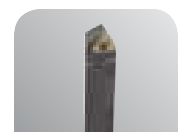
ABH-SB Type

Model No.	Boring Range		A	D	L	W	G	Insert	Weight (kg)
	Min.	Max.							
ABH-SB18(Fine)	20	25	2.5	18	40		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	8.2	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



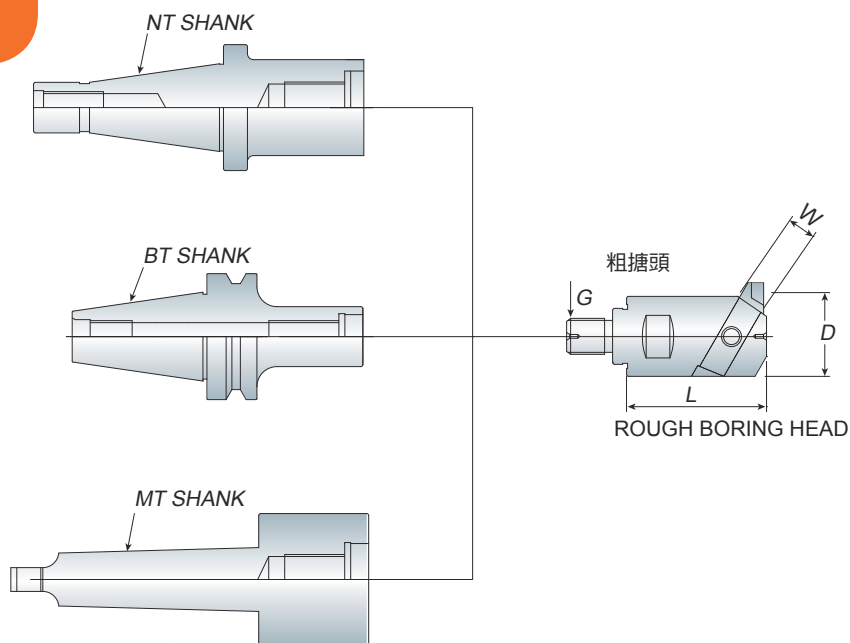
- ABH-SB fine boring head is coolant type.
- Fine boring head is made in Japan(KKS).
- Adjust graduation: 0.01mm
- ABH-SB 精搪頭具有中心出水功能
- ABH-SB 精搪頭為日製 (KKS)
- 調整刻度 : 0.01mm



P114 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



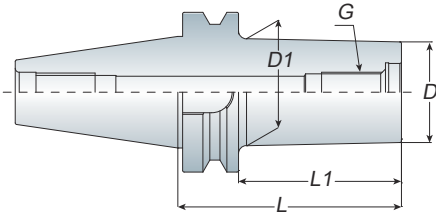
P114 Boring Cutter

Micro Boring Holder

微調精搪刀桿

ABH

BT / NT series



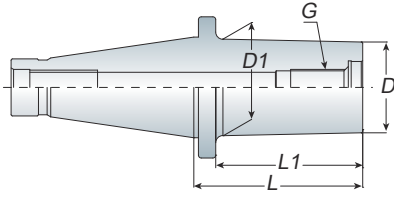
Features

- 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.						
BT40 ABH18-060	22	32	18	24	33	60	M10x1.5P	1.20
-080/100	22	32	18	24	53/73	80/100	M10x1.5P	1.30/1.40
ABH23-080	28	46	23	29	53	80	M12x1.75P	1.30
-120	28	46	23	29	93	120	M12x1.75P	1.50
ABH30-080	36	60	30	36	53	80	M16x2.0P	1.40
-105/130	36	60	30	36	78/103	105/130	M16x2.0P	1.50/1.60
ABH40-080	46	80	40	48	53	80	M18x2.5P	1.50
-105	46	80	40	48	78	105	M18x2.5P	1.90
-125/150	46	80	40	48	98/123	125/150	M18x2.5P	2.10/2.40
ABH-SB50-080	55	73	53	53	53	80	M22x2.5P	1.80
-105/130	55	73	53	53	78/103	105/130	M22x2.5P	2.20/2.60
ABH63-080	70	130	63	63	53	80	M25x2.0P	2.20
-105/150	70	130	63	63	78/123	105/150	M25x2.0P	2.90/3.70
BT50 ABH18-080	22	32	18	24	42	80	M10x1.5P	4.00
-120	22	32	18	24	82	120	M10x1.5P	4.20
ABH23-080	28	46	23	29	42	80	M12x1.75P	3.90
-120	28	46	23	29	82	120	M12x1.75P	4.20
ABH30-080	36	60	30	36	42	80	M16x2.0P	4.10
-105/130	36	60	30	36	67/92	105/130	M16x2.0P	4.20/4.40
ABH40-080	46	80	40	48	42	80	M18x2.5P	4.20
-105/125	46	80	40	48	67/87	105/125	M18x2.5P	4.40/4.80
-150/180	46	80	40	48	112/142	150/180	M18x2.5P	5.20/5.40
ABH-SB50-080	55	73	53	53	42	80	M22x2.5P	4.50
-105/125	55	73	53	53	67/87	105/125	M22x2.5P	4.90/5.10
-150/180	55	73	53	53	112/142	150/180	M22x2.5P	5.70/6.00
ABH63-080	70	130	63	63	42	80	M25x2.0P	4.50
-105	70	130	63	68	67	105	M25x2.0P	5.30
-150/180	70	130	63	68	112/142	150/180	M25x2.0P	6.70/7.50
-200/230	70	130	63	68	162/192	200/230	M25x2.0P	8.00/8.40
ABH83-080	90	160	83	83	42	80	-	4.80
-105	90	160	83	58	67	105	-	5.80
-150/210	90	160	83	63/83	112/172	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



Model No.	Boring Range		D	D1	L	L1	G	Draw Bolt
	Min.	Max.						
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	-	

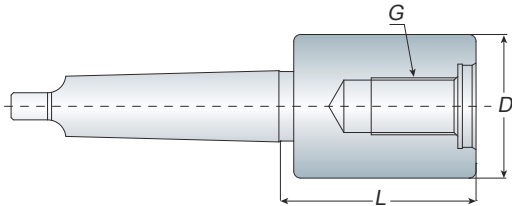
Unit: mm

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.
- MTA-ABH is produced by order.
- ABH (粗 / 精搪頭) / ABH-SB 精搪頭為另購品
- MTA-ABH 為訂單生產



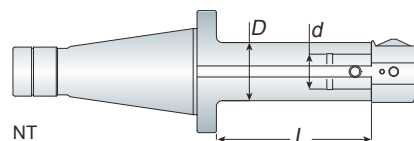
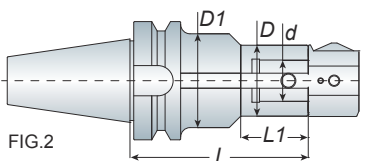
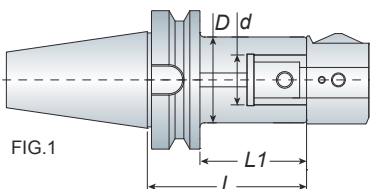
Model No.	Boring Range		D	L	G
	Min.	Max.			
MTA4 ABH18-060	22	32	18	60	M10x1.5P
-100	22	32	18	100	M10x1.5P
ABH23-080	28	46	23	80	M12x1.75P
-120	28	46	23	120	M12x1.75P
ABH30-080	36	60	30	80	M16x2.0P
-130	36	60	30	130	M16x2.0P
ABH40-080	46	80	40	80	M18x2.5P
-150	46	80	40	150	M18x2.5P
ABH63-080	70	130	63	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

Boring System

ACK Boring Holder + ABJ Boring Head

ACK 搪孔刀桿 + ABJ 精搪頭



Model No.	FIG.	D	d	L	L1	Weight (kg)
BT40 ACK4-080/100	1	39	22	80/100	53/73	1.40/1.60
-125	1	39	22	125	98	1.80
-145/195	2	39	22	145/195	56	1.90/2.10
ACK5-080/100	1	50	28	80/100	53/73	1.60/2.00
-135	1	50	28	135	108	2.50
ACK6-055	1	64	36	55	28	1.40
BT50 ACK4-115/175	1	39	22	115/175	77/137	4.40/5.00
-195/235	2	39	22	195/235	80	5.20/5.60
ACK5-090/135	1	50	28	90/135	52/97	4.20/5.20
-195	1	50	28	195	157	6.10
ACK6-110/170	1	64	36	110/170	72/132	4.90/6.10
-215/255	1	64	36	215/255	177/217	7.50/9.00
-300/350	1	64	36	300/350	262/312	9.60/11.50

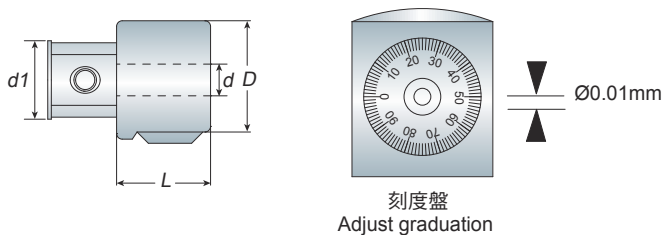
Unit: mm

Model No.	D	d	L	Draw Bolt	Weight (kg)
NT40 ACK4-080/100	39	22	80/100	5/8"-11 M16x2.0P	1.50/1.70
-125	39	22	125		1.90
ACK5-080/100	50	28	80/100		2.00/2.40
-135	50	28	135		2.80
ACK6-055	64	36	55		1.60
NT50 ACK4-115/175	39	22	115/175	1"-8 M24x3.0P	3.60/4.20
ACK5-090/135	50	28	90/135		3.90/4.50
-195	50	28	195		5.40
ACK6-110/170	64	36	110/170		4.40/5.70
-215/255	64	36	215/255		7.20/7.60

Unit: mm

Modular Micro Boring Head

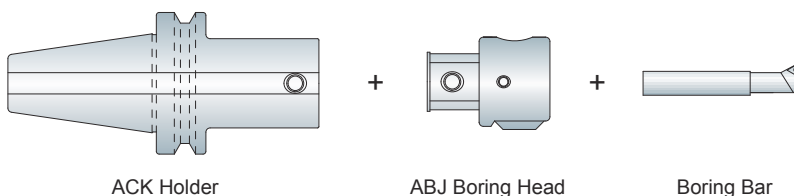
小徑微調搪孔頭



- 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
- Boring holder and boring bar must be ordered separately. => refer to P.128
- 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.
- 搪孔刀桿及搪刀為另購品 => 請參考 P.128

Model No.	Boring Range	d	d1	D	L	Holder / Adapter Type	Weight (kg)
ABJ10	6~25	10	22	39	29	ACK4	0.4
ABJ12	6~32	12	28	50	36	ACK5	0.6
ABJ16	6~50	16	36	64	45	ACK6	1.2

Unit: mm



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

搪刀 / 搪刀組

BJ

BT / NT
series

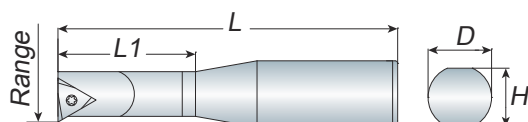
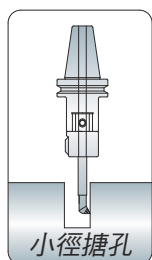


FIG.1

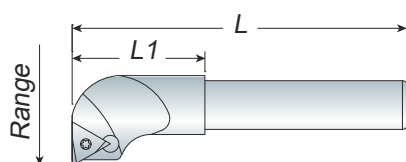


FIG.2



Model No.	Dimension					Insert	Screw	Wrench	Weight (kg)
	D	Range	L	L1	H				
BJ10B06-24		6~8	64	24		WBGTO601..L	MS2003A	T6	0.03
BJ10B08-32		8~10	64	32		TBGTO601..L	MS2004A		0.03
BJ10B10-40		10~12	72	40			MS2005A		0.04
BJ10B12-45	10	12~16	77	22	9	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

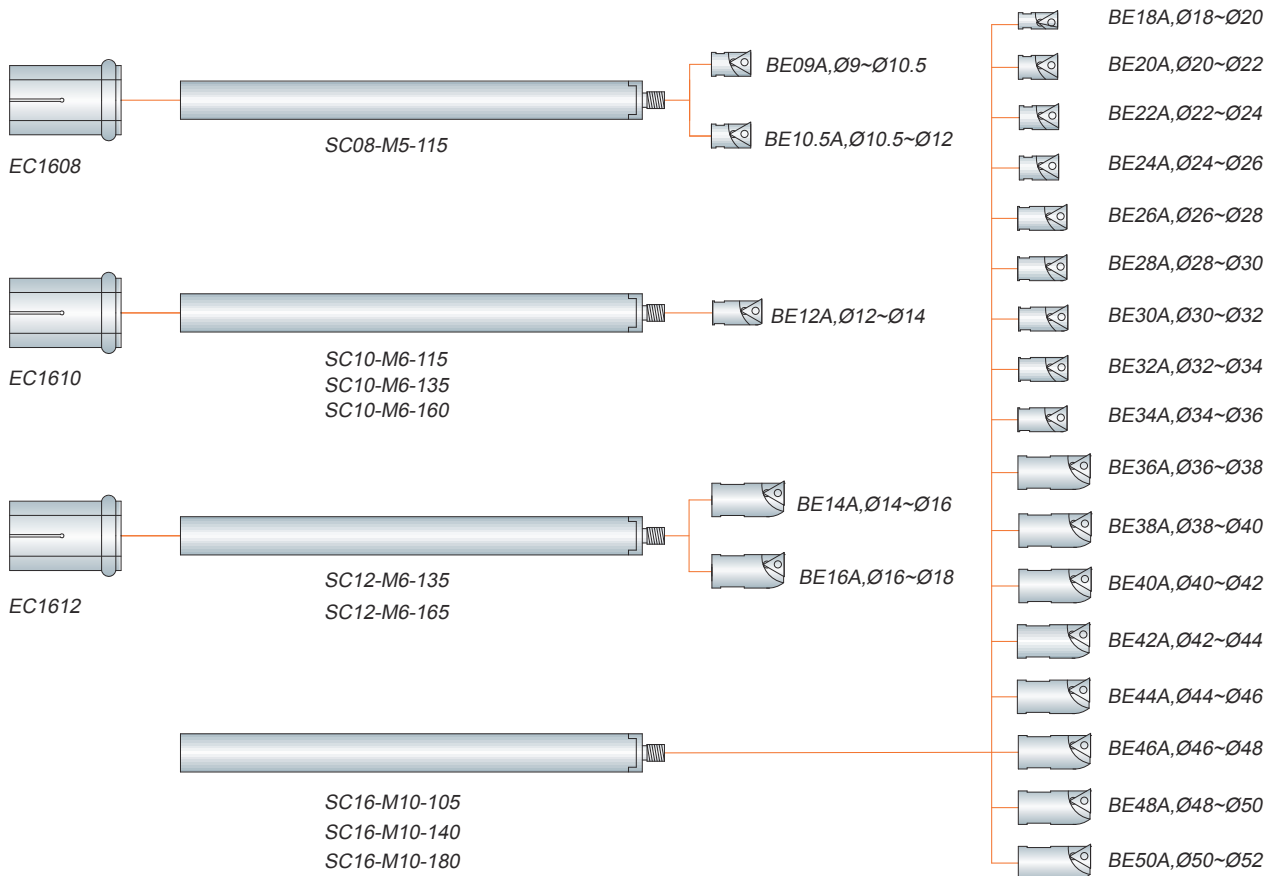
Model No.	Dimension					Insert	Screw	Wrench	Weight (kg)
	D	Range	L	L1	H				
BJ12B06-24		6~8	64	24		WBGTO601..L	MS2003A	T6	0.03
BJ12B08-32		8~10	64	32		TBGTO601..L	MS2004A		0.03
BJ12B10-40		10~12	72	40			MS2005A		0.05
BJ12B12-45	12	12~16	77	45	11	TPGH0902..L	MS2506A	T9	0.05
BJ12B16-45		16~20	77	22					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

- 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.129
- 刀片為另購品
- 搪孔刀桿可另外選購搪孔頭、套筒及鎢鋼柄搪刀桿使用 => 請參考 P.129

Model No.	Dimension					Insert	Screw	Wrench	Weight (kg)
	D	Range	L	L1	H				
BJ1606-24		6~8	68	24		WBGTO601..L	MS2003A	T6	0.15
BJ1608-32		8~10	74	32		TBGTO601..L	MS2004A		0.15
BJ1610-40		10~12	75	40			MS2005A		0.15
BJ1612-53	16	12~16	85	53	15	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



- For the detail size and info, please refer P.130.
- 詳細規格及資料，請參考 P.130

Boring Head / Spare Parts

搪孔刀頭 / 配件

ABJ

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...

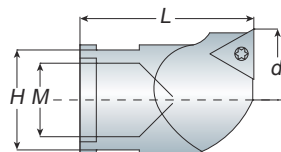
Unit: mm



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..	MS2205A	T7
BE10.5A	10.5				10.5~12			
BE12A	12	23	10	M06	12~14	TP.. 0802..	MS2206A	
BE14A	14				14~16			
BE16A	16				16~18			
BE18A	18				27			
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



BM1625 Micro Boring Holder

BM1625 精搪刀桿

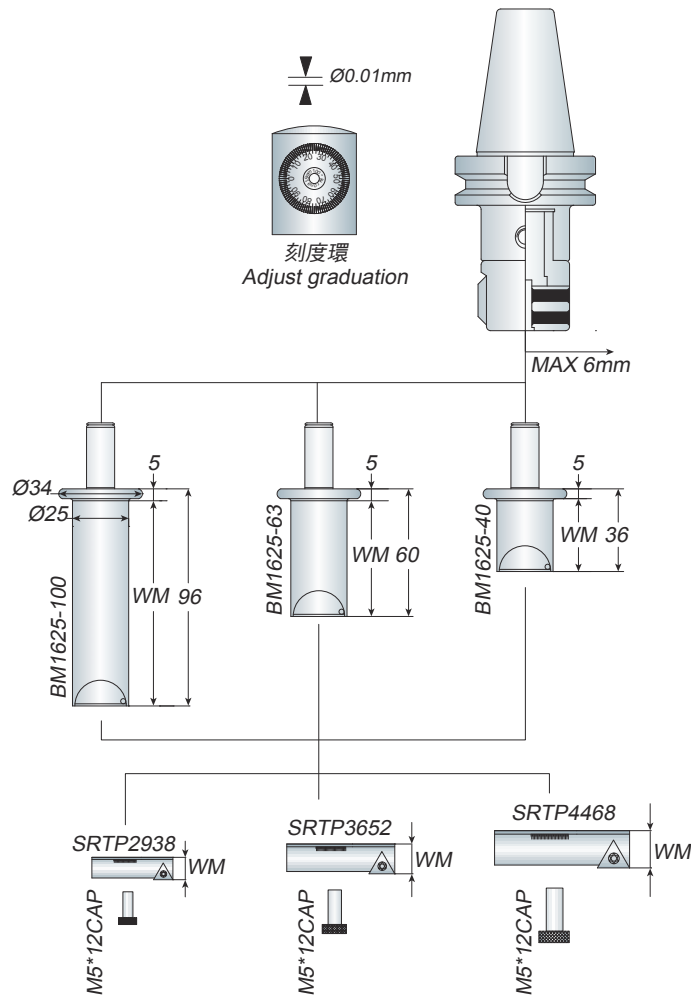


Features

- 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

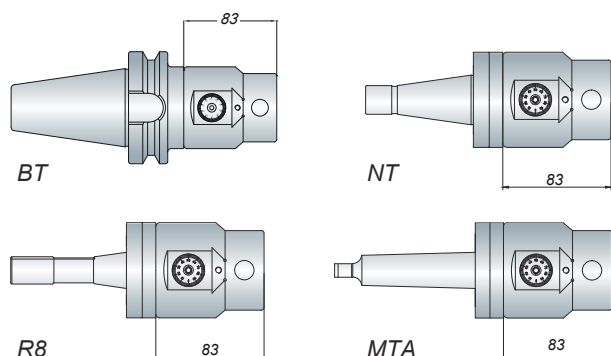


NBH2084 Micro Boring System

NBH2084 微調搪孔系統

NBH

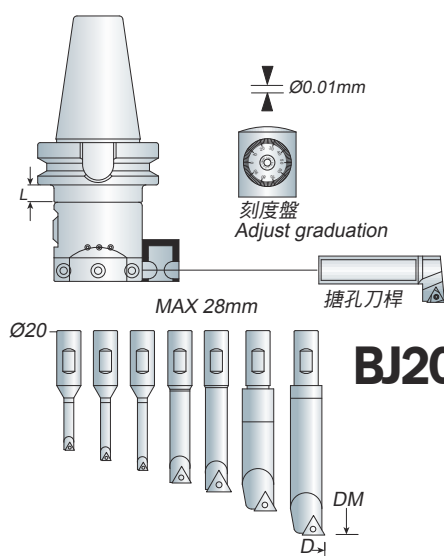
BT / NT series



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
R8 NBH2084/SET	8~280	R8 NBH2084	7/16"x20UNF	6.20

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	MS2004A	T6	0.15
BJ2010-40	10~13	40		MS2005A		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	TPGH1103..L	MS3008A	T9	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

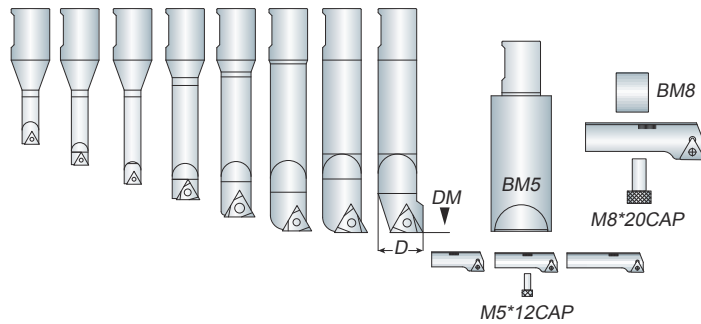
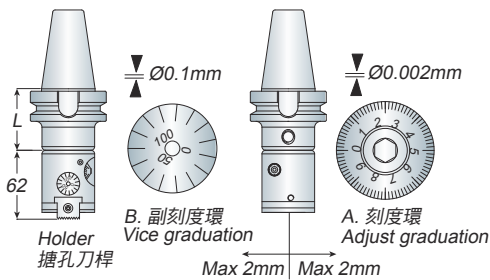
- Insert must be ordered separately.
- 刀片為另購品

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 HBOR50-093	45	8.00
BT40 HBOR50/SET	6~90	BT40 HBOR50-102	50	8.80
BT50 HBOR50/SET	6~90	BT50 HBOR50-102	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				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	+ SRTP5790			M8x20CAP	○6	0.03
SRTP5790	57~90	+20	TPGH1103..L	SB-3TR-M3	T8	0.15

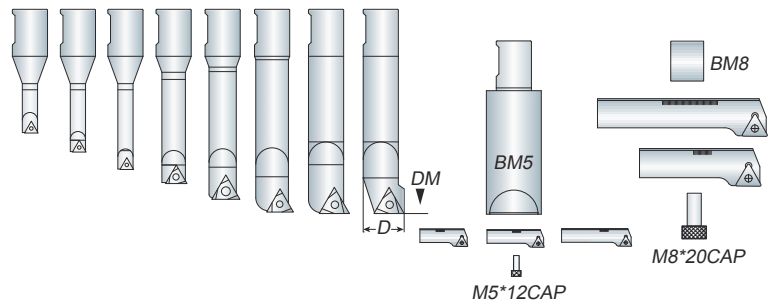
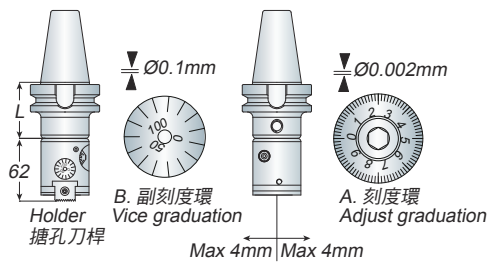
Unit: mm

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.135
- 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.135
- 刀片為另購品

Model No.	Boring Range	Holder	L	Draw Bolt	Weight (kg)
BT40 HBOR63/SET	6~150	BT40 HBOR63-102	55	-	9.70
BT50 HBOR63/SET	6~150	BT50 HBOR63-122	65	-	12.30
			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

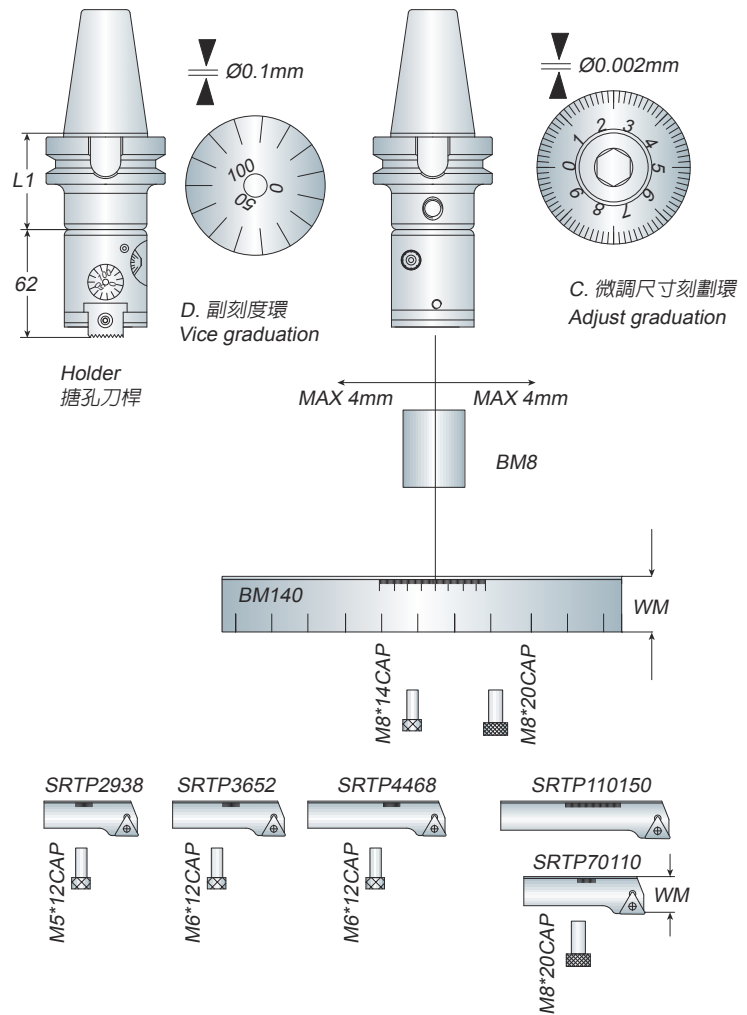
Model No.	Boring Range (D Min.~D Max.)	Dimension (DM)	Insert	Screw	Wrench	Weight (kg)
BR1606-21	6~9	21	WBGTO601..L	SB-1STR-M2	T6	0.10
BR1608-28	8~11	28	TBGT0601..L	SB-1STR-M2	T6	0.10
BR1610-35	10~13	35				0.10
BR1612-42	12~15	42				0.10
BR1614-50	14~17	50	TPGH0902..L	SB-2TR-M2.5	T8	0.15
BR1616-60	16~20	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



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



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

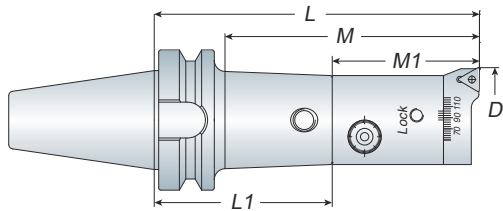
Unit: mm

Micro Boring Holder

極細微調精搪孔刀桿

HBOR

BT / NT
series



Model No. (Boring range Min.~Max.)	M	L	Micro Boring and Cutting System					Weight (kg)
			Holder (L1)	Boring Head	Connector	Insert Holder	M1	
BT30 HBOR25-075 (M29-38)	75	105	BT30 HBOR25-055	HBOR25	M5	SRTP2938	50	1.20
HBOR32-093 (M36-52)	93	118	BT30 HBOR32-055	HBOR32	M6	SRTP3652	63	1.40
HBOR40-093 (M44-68)		118	BT30 HBOR40-055	HBOR40		SRTP4468	63	1.70
HBOR50-093 (BM57-90)		125	BT30 HBOR50-045	HBOR50	BM8	SRTP5790	80	2.00
HBOR63-093 (BM70-110)		145	BT30 HBOR63-065	HBOR63		SRTP70110	80	3.10
BT40 HBOR25-090 (M29-38)	90	122	BT40 HBOR25-072	HBOR25	M5	SRTP2938	50	1.90
HBOR32-102 (M36-52)	102	135	BT40 HBOR32-072	HBOR32	M6	SRTP3652	63	2.20
HBOR40-102 (M44-68)		135	BT40 HBOR40-072	HBOR40		SRTP4468	63	2.40
HBOR50-102 (BM57-90)		130	BT40 HBOR50-050	HBOR50	BM8	SRTP5790	80	3.00
HBOR63-102 (BM70-110)		135	BT40 HBOR63-050	HBOR63		SRTP70110	80	3.60
HBOR63-102 (BM110-150)	135	BT40 HBOR63-055	HBOR63	SRTP110150		80	3.70	
BT50 HBOR25-102 (M29-38)	102	165	BT50 HBOR25-115	HBOR25	M5	SRTP2938	50	4.70
-127 (M29-38)	127	190	BT50 HBOR25-140					4.80
-152 (M29-38)	152	215	BT50 HBOR25-162					4.90
HBOR32-135 (M36-52)	135	198	BT50 HBOR32-135	HBOR32	M6	SRTP3652	63	5.30
-165 (M36-52)	165	228	BT50 HBOR32-165					5.90
-200 (M36-52)	200	263	BT50 HBOR32-200					6.20
HBOR40-135 (M44-68)	135	198	BT50 HBOR40-135	HBOR40	M6	SRTP4468	63	5.60
-185 (M44-68)	185	248	BT50 HBOR40-185					6.30
-225 (M44-68)	225	288	BT50 HBOR40-225					6.50
-265 (M44-68)	265	328	BT50 HBOR40-265					6.80
HBOR50-102 (BM57-90)	102	145	BT50 HBOR50-065					HBOR50
-202 (BM57-90)	202	245	BT50 HBOR50-165	7.00				
-252 (BM57-90)	252	295	BT50 HBOR50-215	7.40				
-302 (BM57-90)	302	345	BT50 HBOR50-265	8.50				
HBOR63-122 (BM70-110)	122	165	BT50 HBOR63-085	HBOR63	BM8	SRTP70110	80	7.00
-202 (BM70-110)	202	245	BT50 HBOR63-165					8.40
-252 (BM70-110)	252	295	BT50 HBOR63-215					10.00
-302 (BM70-110)	302	345	BT50 HBOR63-265					11.60
HBOR63-122 (BM110-150)	122	165	BT50 HBOR63-085					SRTP110150
-202 (BM110-150)	202	245	BT50 HBOR63-165	8.60				
-252 (BM110-150)	252	295	BT50 HBOR63-215	10.20				
-302 (BM110-150)	302	345	BT50 HBOR63-265	11.80				

Unit: mm

Features

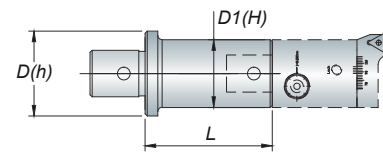
- HBOR SET = holder + boring head + connector + insert holder
- The boring range of HBOR is from 29 ~ 150mm that are according to your request to choice.
- HBOR 極細微調精搪孔刀桿是由搪孔刀桿、精搪刀頭、連接器和精搪刀座組成
- HBOR 極細微調精搪孔刀桿之搪孔範圍為 29 ~ 150mm，可依需求選擇

BT / NT
series

HBOR

Adapter

縮徑接桿

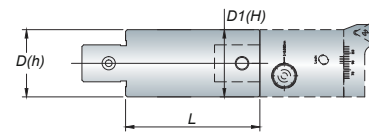


Model No.	D	D1	L	Weight (kg)
h32-H25-025	32	25	32	0.20
h40-H25-030	40	25	40	0.30
-H32-030	40	32	40	0.40
h50-H25-035	50	25	50	0.50
-060	50	25	75	0.60
-H32-035	50	32	50	0.60
-067	50	32	82	0.80
-H40-035	50	40	50	0.70
-075	50	40	90	1.10
h63-H25-040	63	25	63	0.80
-090	63	25	113	1.10
-H32-040	63	32	63	0.90
-100	63	32	127	1.30
-H40-040	63	40	63	1.10
-120	63	40	143	1.80
-H50-040	63	50	63	1.20
-140	63	50	163	2.80

Unit: mm

Extension Adapter

延長接桿

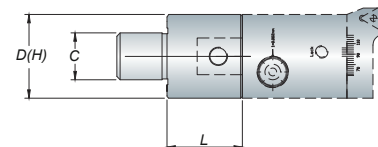


Model No.	D	D1	L	Weight (kg)
h25-H25-025	25	25	25	0.10
-050	25	25	50	0.30
h32-H32-032	32	32	32	0.20
-064	32	32	64	0.60
h40-H40-040	40	40	40	0.40
-080	40	40	80	0.80
h50-H50-050	50	50	50	0.80
-100	50	50	100	1.50
h63-H63-063	63	63	63	1.50
-126	63	63	126	2.80

Unit: mm

Adapter - Straight Shank

直柄接桿



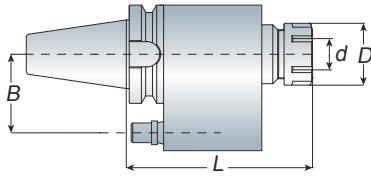
- Suitable for HBOR micro boring head and ACK/BCK boring cutter.
- 適用於 HBOR 極細微調精搪孔頭和 ACK/BCK 刀頭

Model No.	C	D	L	Weight (kg)
C32 H25-035	32	25	53	0.30
H32-040	32	32	40	0.50
H40-040	32	40	40	0.80
H50-040	32	50	40	0.90
H63-055	32	63	55	1.30

Unit: mm

Oil-Feed Holder

油路刀桿



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

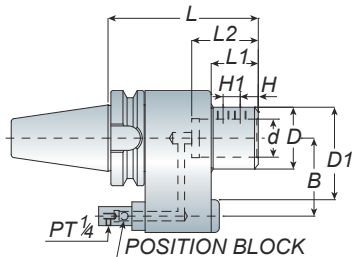
Unit: mm

ERO

BT / NT
series



- ERO oil-feed holder must be used with ER coolant nut and ER coolant collet (refer to P.13).
- 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.13) 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

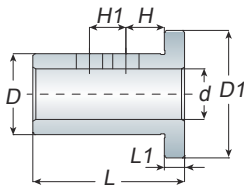
Model No.	d	D	D1	L	L1	L2	H	H1	B (中心距)	Weight (kg)
BT40 SLO32-155	32	53	90	155	50	60	15	15	60/65	4.90
SLO40-155	40	70	90	155	50	70	19	18	60/65	5.00
BT50 SLO32-160	32	54	100	160	50	60	15	15	80/82	8.00
SLO40-160	40	64	100	160	50	70	19	18	80/82	8.40

Unit: mm

SLO



- 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)



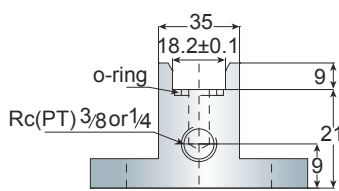
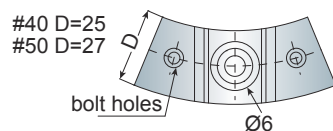
Reducing Sleeve

油路刀套

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

CSO



Positioning Block

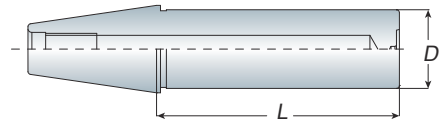
止動塊



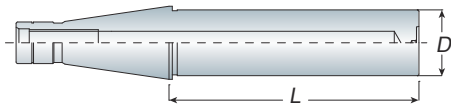
BT / NT series

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 M12x1.75P	2.40
-300	30	300				2.70
NT40 TA40-250	40	250			5/8"-11 M16x2.0P	3.80
-300	40	300				4.20
-350	40	350				5.00
NT50 TA40-300	40	300			1"-8 M24x3.0P	6.20
-350	40	350				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