專業・精密・耐用

億錡專業CNC刀具

E-CHEE MACHINE TOOLS



Tooling/Cutter/Accessory

Professional
Precision
Durable

ISO 9001

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TOOLING SYSTEM 刀桿系統

P1~67



P1
BT MILLING CHUCK / KCH
BT 強力型精密銑刀夾頭



P2
SK MILLING CHUCK / KCH
SK 強力型精密銑刀夾頭



P2
NT MILLING COLLET CHUCK SET / KCH
NT 強力型精密銑刀夾頭組



P2
C STRAIGHT COLLETS
直筒夾



P3
WRENCH 扳手



P3
MILLING CHUCK MAS 403
立銑刀夾頭



P4
HSK POWER MILLING CHUCK
HSK 強力銑刀刀把



P4
PFC/HY COLLETER 筒夾



P4
PFC SPANNER for TOOL HOLDER
PFC 刀把扳手



P5
COLLET CHUCK / ER
ER 彈性筒夾刀桿



P6
COLLET CHUCK / ER
ER 彈性筒夾刀桿



P7
SK COLLET CHUCK / ER
ER 銑刀夾頭



P7
STRAIGHT SHANK COLLET CHUCK
直柄 ER 夾頭



P8
NT ER COLLET CHUCK SET
ER 銑刀夾頭套組



P9
ER SPRING COLLET KIT
ER 筒夾組



P10-11
ER SPRING COLLET SYSTEM
ER 筒夾



P12
ER COLLET CHUCK NUT (DIN6499)
ER 螺帽



P12
ER COLLET CHUCK WRENCH
ER 扳手



P13
BT TAPPING HOLDER / TER
ER 伸縮攻牙器



P13
TAPPING HOLDER / TER
ER 伸縮攻牙器



P14
HSK-A ER COLLET CHUCK
HSK-A ER 筒夾刀把



P14
HSK-E ER COLLET CHUCK
HSK-E ER 筒夾刀把



P15
HSK-A ER COLLET CHUCK
(HIGH SPEED BEARING NUT)
HSK-A ER 高速鋼珠螺帽刀把



P16
HSK-E ER COLLET CHUCK
(HIGH SPEED BEARING NUT)
HSK-E ER 高速鋼珠螺帽刀把



P16
ER BALL BEARING NUT
ER 鋼珠螺帽



P16
SPANNER FOR ERB / ERBR NUT
ERB / ERBR 螺帽扳手



P17-18
BT-SK COLLET CHUCK SYSTEM
BT-SK 刀桿



P19
SET OF SK COLLETS AND MAS BT CHUCK
SK 筒夾組



P20
SK NUT / WRENCH 螺帽/扳手



P20
NUT / WRENCH
單向軸承螺帽/ 扳手



P21
HSK-A PFK COLLET CHUCK
HSK-A PFK 筒夾刀把



P22
HSK-E PFK COLLET CHUCK
HSK-E PFK 筒夾刀把



P22
PFK NUT 螺帽



P22
PFK SPANNER NUT 螺帽扳手



P23
SHRINK FIT DEVICE
熱縮燒結機



P23
COOLING SYSTEM
刀把冷卻機



P24
BT HEAT SHRINK ARBOR / ISK
BT 燒結式刀柄



P25
HSK HEAT SHRINK ARBOR / ISK
HSK 燒結式刀柄



P26
BT HIGH SPEED COLLET CHUCK - BACK PULL
BT 後拉式高速筒夾刀柄

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HSK HIGH SPEED COLLET CHUCK-BACK PULL
HSK 後拉式高速筒夾刀柄


P26
IDS COLLET
後拉式筒夾


P27-28
BT SIDE LOCK MILLING ARBOR / SLA
BT 側固式立銑刀柄


P29
SK SIDE LOCK MILLING ARBOR / SLA
SK 側固式立銑刀柄


P30
NT SIDE LOCK MILLING ARBOR / SLA
NT 側固式立銑刀柄


P31
HSK-A SLE SIDE LOCK HOLDER
HSK-A SLE 側固刀把


P32
BT MORSE TAPER ARBOR / MTA
BT 斜柄鑽頭套筒刀柄


P33
BT MORSE TAPER ARBOR / MTB
BT 斜柄鑽頭套筒刀柄


P33
EXTENSION PULL STUD 長拉頭


P34
SK MORSE TAPER ARBOR / MTA
SK 斜柄鑽頭套筒刀柄


P34
NT MORSE TAPER ARBOR / MTA
NT 斜柄鑽頭套筒刀柄


P35
MORSE EXTENSION TAPER SLEEVE
莫氏錐度延長套筒


P35
DRILL CHUCK SLEEVE 鑽頭套筒


P36
HYDRAULIC CHUCK
油壓式刀把


P37
BT CNC DRILL CHUCKS / CHU
BT 直結式鑽夾頭


P37
SK CNC DRILL CHUCKS / CHU
SK 直結式鑽夾頭


P38
NT (ISO) CNC DRILL CHUCKS / CHU
NT (ISO) 直結式鑽夾頭


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INTEGRATED KEYLESS CHUCK
(SPECIAL HEAVY DUTY)
整體式自動夾頭附勾扳手

伸縮緩衝加長型

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QUICK CHANGE TAPPING CHUCKS
快換式絲攻刀桿

伸縮緩衝型

P39
QUICK CHANGE TAPPING CHUCKS
快換式絲攻刀桿

伸縮緩衝型/莫氏錐度型



P40

QUICK CHANGE TAPPING CHUCKS
快換式絲攻刀桿

伸縮緩衝型/直柄型



P40

QUICK CHANGE TAPPING CHUCKS
快換式絲攻刀桿



P41

QUICK CHANGE TAPPING CHUCKS
快換式絲攻刀桿

直柄型-筒夾專用



P41

QUICK CHANGE TAPPING CHUCKS
快換式絲攻刀桿

直柄型-側固及CNC車床專用



P42

QUICK CHANGE TAPPING CHUCKS
快換式絲攻刀桿

莫氏錐度型



P42

QUICK CHANGE TAPPING CHUCKS
快換式絲攻刀桿



P43

TAP CHUCK REDUCER
絲攻轉接頭



P43

ADJUSTABLE PIN WRENCHES
調整扳手

扭力型
Overload clutch



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QUICK CHANGE TAP COLLETS SERIES
快換式絲攻夾頭系列

剛性
Rigid type



P49-54

QUICK CHANGE TAP COLLETS SERIES
快換式絲攻系列



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DRILL TAPPING SET
旋臂鑽床攻牙組



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DT33 / 52 SIZE OF TAP COLLETS
絲攻筒夾規格



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BT FACE MILL A TYPE / FMA
BT 平面銑刀柄



P59-60

NT FACE MILL A TYPE / FMA
NT 平面銑刀柄



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NT FACE MILL A TYPE / FMA / FMB
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SK FACE MILL A TYPE / FMA / FMB
SK平面銑刀柄



P63

HSK-A FMB FACE MILL ARBOR (METRIC SIZE)
HSK-A FMB 面銑刀用刀把



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BT SIDE CUTTER ARBOR / SCA
BT 側銑刀架



P64

NT SIDE CUTTER ARBOR / SCA
NT 側銑刀架



P65

OSL OIL - FEED HOLDER
OSL 油路刀把

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OSL STRAIGHT SLEEVES
OSL 套筒



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THROW-AWAY HIGH SPEED DRILL
WC 刀片/捨棄式快速鑽頭

2D~5D



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HIGH SPEED DRILL
快速鑽頭



P80

HIGH-SPEED ROUNGH ENDMILL
快削型端銑刀



P81

HIGH-SPEED ROUNGH ENDMILL
快削型端銑刀



P81

FACE MILLING CUTTER
快削型平面銑刀



P82

TPR SHOULDER ENDMILL
直角端銑刀



P83

HIGH-SPEED FACE MILLING CUTTER
45° 高速平面殼型銑刀



P83

HIGH-SPEED FACE MILLING CUTTER
45°高速平面殼型銑刀



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45° FACE MILLING CUTTER
45°平面銑刀



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TPR SHOULDER FACE MILLING CUTTER
直角平面銑刀



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POWERFUL FACE MILLING CUTTER
強力平面銑刀



P85

RADIUS FACE MILLING CUTTER
R角平面銑刀



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RADIUS ENDMILL
R角端銑刀



P87

45° CHAMFERING ENDMILL
45°倒角刀



P87

BOLT COUNTERSINK ENDMILL
螺絲頭沈孔銑刀

ACCESSORIES SYSTEM
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P89~108

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P89-90

CONSTANT HYDRAULIC ANGLE LOCK VISE (BACK-TENSION)
MC 定壓式增壓角固虎鉗



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MECHANICAL ANGLE LOCK VISE
機械增壓倍力式角固虎鉗



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HYDRAULIC MACHINE VISE (BUILT-IN TYPE)
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SIMPLE INDEXING SPACER
簡易型快速分度盤



P94
SUPER INDEXING SPACER
強力型快速分度盤



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SUPER HORIZONTAL AND VERTICAL ROTARY TABLE
橫立兩用分度盤



P95
UNIVERSAL TILTING ROTARY TABLE
萬能型傾斜式分度盤



P95
BT TYPE TAPER WIPER
BT 型 擦拭棒



P96
TOOL HOLDER LOCKING DEVICE
鎖刀座



P96
TOOL HOLDER LOCKING DEVICE / HSK TYPE
鎖刀座 / HSK 型



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HSK TYPE TAPER WIPER
HSK型 擦拭棒



P97
52 PCS CLAMPING KITS
52 件萬能夾具



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TOOL STAND-TABLETOP
桌上型刀具架



P98
TOOL STAND
刀具架 – 單面&雙面



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TOOL TROLLEY
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TOUCH POINT SENSOR
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P99
TOUCH POINT SENSOR
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CERAMIC EDGE FINDER
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P100
INTERCHANGEABLE MEDIUM-DUTY CENTER
MT4 中重負荷迴轉頂針



P101
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MT5 中重負荷迴轉頂針

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P102

DIAL GAUGE TOOL LENGTH SETTER
Z 軸高度設定器



P103

END MILL GRINDER
銑刀研磨機



P104

DRILL RE - SHARPENING MACHINE
鑽頭研磨機

DH-3300



DH-4400



P105

CONTACT TYPE TOOL PRESETTER - FIXED SPINDLE. SIMPLIFIED STRUCTURE
接觸式刀具設定儀–固定式主軸簡易型

DH-4400E



DH-6600E



P105

CONTACT TYPE TOOL PRESETTER - ROTATING SPINDLE. PROFESSIONAL.
接觸式刀具設定儀 – 旋轉式主軸專業型

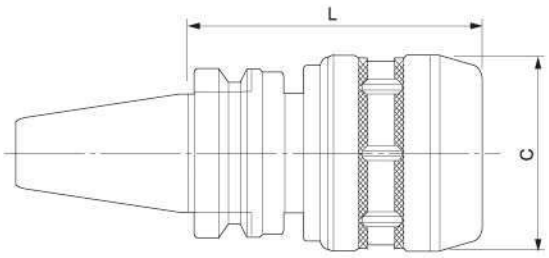
刀桿系統
TOOLING SYSTEM

精密銑刀夾頭	POWERGRIP MILLING CHUCK
筒夾	SPRING CHUCK
螺帽/扳手	COLLET CHUCK NUT / WRENCH
精密刀桿	POWERGRIP ARBOR
熱縮燒結機	SHRINK FIT DEVICE
刀把冷卻機	COOLING SYSTEM
燒結式刀柄	HEAT SHRINK ARBOR
直結式鑽夾頭	CNC DRILL CHUCKS
絲攻刀桿	TAPPING CHUCKS
平面銑刀柄	FACE MILL
側銑刀架	BT SIDE CUTTER ADAPTOR

PROFESSIONAL TOOLING SYSTEM



BT MILLING CHUCK / KCH
BT 強力型精密銑刀夾頭





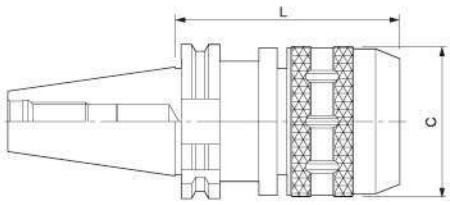
Dynamic Balance (rpm)	BT30	BT40	BT50
Without Balancing	8000	8000	8000
With Balancing	30000	15000	10000

Model No.	Clamping Range (mm)	L (mm)	C (mm)	Collet	Weight (kgs)
BT30-KCH12-70	4-12	70	35	C12	1.00
BT30-KCH16-70	4-16	70	42	C16	1.19
BT30-KCH20-80	6-20	80	52	C20	1.19
BT30-KCH25-80	6-25	80	60	C25	1.30
BT40-KCH12-75	4-12	75	35	C12	1.50
BT40-KCH12-90	4-12	90	35	C12	1.65
BT40-KCH12-105	4-12	105	35	C12	2.00
BT40-KCH16-75	4-16	75	42	C16	1.40
BT40-KCH16-90	4-16	90	42	C16	1.50
BT40-KCH16-105	4-16	105	42	C16	1.70
BT40-KCH20-75	6-20	75	52	C20	1.60
BT40-KCH20-90	6-20	90	52	C20	2.30
BT40-KCH20-105	6-20	105	52	C20	1.80
BT40-KCH20-135	6-20	135	52	C20	2.80
BT40-KCH25-75	6-25	75	60	C25	2.00
BT40-KCH25-90	6-25	90	60	C25	2.20
BT40-KCH25-105	6-25	105	60	C25	2.20
BT40-KCH32-95	4-32	95	68	C32	2.34
BT40-KCH32-105	4-32	105	68	C32	2.70
BT40-KCH32-135	4-32	135	68	C32	3.50
BT50-KCH16-105	4-16	105	42	C16	4.44
BT50-KCH16-135	4-16	135	42	C16	4.99
BT50-KCH16-165	4-16	165	42	C16	5.54
BT50-KCH16-200	4-16	200	42	C16	5.68
BT50-KCH16-250	4-16	250	42	C16	6.35

Model No.	Clamping Range (mm)	L (mm)	C (mm)	Collet	Weight (kgs)
BT50-KCH20-105	6-20	105	52	C20	4.69
BT50-KCH20-135	6-20	135	52	C20	5.24
BT50-KCH20-165	6-20	165	52	C20	5.77
BT50-KCH20-200	6-20	200	52	C20	6.34
BT50-KCH20-250	6-20	250	52	C20	7.14
BT50-KCH20-300	6-20	300	52	C20	8.38
BT50-KCH20-350	6-20	350	52	C20	8.88
BT50-KCH20-400	6-20	400	52	C20	9.56
BT50-KCH25-105	6-25	105	60	C25	4.86
BT50-KCH25-135	6-25	135	60	C25	5.41
BT50-KCH25-165	6-25	165	60	C25	5.96
BT50-KCH25-200	6-25	200	60	C25	7.15
BT50-KCH25-250	6-25	250	60	C25	8.30
BT50-KCH25-300	6-25	300	60	C25	9.61
BT50-KCH25-350	6-25	350	60	C25	10.31
BT50-KCH32-105	4-32	105	68	C32	5.64
BT50-KCH32-135	4-32	135	68	C32	6.25
BT50-KCH32-165	4-32	165	68	C32	7.35
BT50-KCH32-200	4-32	200	68	C32	7.13
BT50-KCH32-250	4-32	250	68	C32	8.45
BT50-KCH32-300	4-32	300	68	C32	9.80
BT50-KCH32-350	4-32	350	68	C32	9.13
BT50-KCH42-105	6-42	105	87	C42	7.50
BT50-KCH42-135	6-42	135	87	C42	8.70
BT50-KCH42-165	6-42	165	87	C42	9.90
BT50-KCH42-200	6-42	200	87	C42	8.01

※隨附扳手。 ※The wrench is enclosed.

SK MILLING CHUCK / KCH
SK 強力型精密銑刀夾頭





Model No.	Clamping Range (mm)	L (mm)	C (mm)	Collet	Weight (kgs)
SK40-KCH16-90	4-16	90	42	C16	1.5
SK40-KCH20-90	6-20	90	52	C20	2.0
SK40-KCH25-90	6-25	90	60	C25	2.0
SK40-KCH32-105	4-32	105	68	C32	2.7
SK50-KCH16-105	4-16	105	42	C16	4.5
SK50-KCH20-105	6-20	105	52	C20	4.7
SK50-KCH20-135	6-20	135	52	C20	4.5
SK50-KCH20-165	6-20	165	52	C20	5.0

Model No.	Clamping Range (mm)	L (mm)	C (mm)	Collet	Weight (kgs)
SK50-KCH20-200	6-20	200	52	C20	5.46
SK50-KCH25-105	6-25	105	60	C25	4.60
SK50-KCH25-135	6-25	135	60	C25	4.87
SK50-KCH25-165	6-25	165	60	C25	5.56
SK50-KCH25-200	6-25	200	60	C25	6.51
SK50-KCH32-105	4-32	105	68	C32	4.50
SK50-KCH32-135	4-32	135	68	C32	5.55
SK50-KCH32-165	4-32	165	68	C32	5.95
SK50-KCH42-105	6-42	105	87	C42	5.70

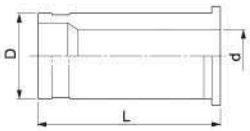
NT MILLING COLLET CHUCK SET / KCH
NT 強力型精密銑刀夾頭組





Model No.	Capacity (mm)	Collet Set	Weight (kgs)
NT30-KCH20-75	6-20	6, 8, 10, 12, 16	1.5
NT40-KCH32-85	4-32	6, 8, 10, 12, 16, 20, 25	2.6
NT50-KGH32-90	4-32	6, 8, 10, 12, 16, 20, 25	4.5
MT5-KCH32-90	4-32	6, 8, 10, 12, 16, 20, 25	7.2
NT50-KCH42-105	6-42	6, 8, 10, 12, 16, 20, 25, 32	5.5

C STRAIGHT COLLETS
直筒夾





Model No.	ØD (mm)	Ød (mm)	L (mm)	Weight (kgs)
C16	16	4, 6, 8, 10, 12	48	0.08
C20	20	6, 8, 10, 12, 16	57	0.10
C25	25	6, 8, 10, 12, 16, 20	60	0.20
C32	32	6, 8, 10, 12, 16, 20, 25 4, 5, 7, 9, 11, 13, 14, 15, 17, 18, 19, 21, 22, 23, 24 1/4", 5/16" ,3/8", 1/2", 5/8", 3/4",1"	67	0.30
C42	42	6, 8, 10, 12, 16, 20, 25, 32	76	0.40

WRENCH 扳手

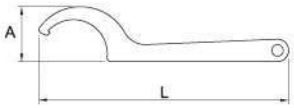


FIG.1

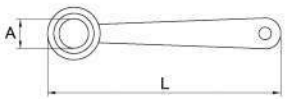


FIG.2



Model No.	Fig.	L (mm)	A (mm)	Weight (kgs)
KCH12 (軸承型)	2	200	35	0.70
KCH16	1	210	40.7	0.20
KCH16 (軸承型)	2	210	40	0.90
KCH20	1	230	42	0.22

Model No.	Fig.	L (mm)	A (mm)	Weight (kgs)
KCH25	1	250	52	0.22
KCH32	1	270	53	0.33
KGH32	1	285	52	0.33
KCH42	1	310	68	0.35

MILLING CHUCK MAS 403
立銑刀夾頭

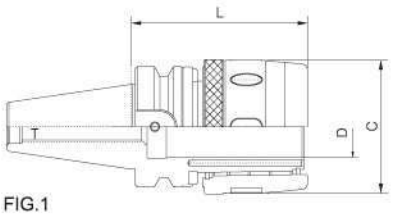


FIG.1

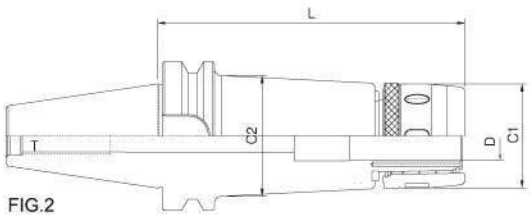


FIG.2

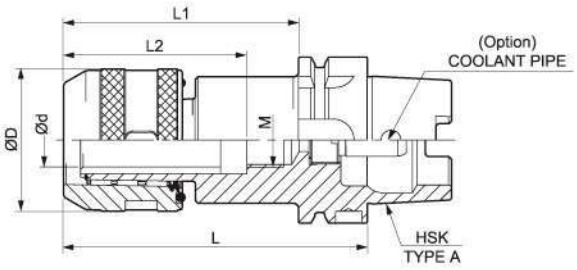


Model No.	Fig	D	C1	C2	L	Spanner	Weight (kgs)	Draw Bar G
BT30-IMC20-75	1	20	53	-	75	IMC20-T	1.19	M12-P1.75
BT40-IMC20-75	1	20	53	-	75	IMC20-T	1.60	M16-P2.0
BT40-IMC32-90	1	32	70	-	90	IMC32-T	2.34	
BT40-IMC32-105	1	32	70	-	105	IMC32-T	2.70	
BT40-IMC32-135	1	32	70	-	135	IMC32-T	3.50	
BT50-IMC32-105	1	32	70	-	105	IMC32-T	5.64	M24-P3.0
BT50-IMC32-135	2	32	70	80	135	IMC32-T	6.25	
BT50-IMC32-165	2	32	70	88	165	IMC32-T	7.35	
BT50-IMC32-200	2	32	70	88	200	IMC32-T	9.70	
BT50-IMC32-250	2	32	70	88	250	IMC32-T	12.0	
BT50-IMC42-105	1	42	100	-	105	IMC42-T	7.50	
BT50-IMC42-135	1	42	100	-	135	IMC42-T	8.70	
BT50-IMC42-165	1	42	100	-	165	IMC42-T	9.90	
BT50-IMC42-200	1	42	100	-	200	IMC42-T	12.0	
BT50-IMC42-250	1	42	100	-	250	IMC42-T	15.0	

※隨附扳手。 ※The wrench is enclosed.

HSK POWER MILLING CHUCK
HSK 強力銑刀刀把

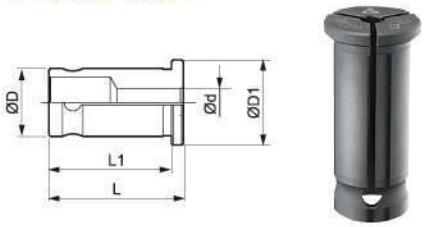




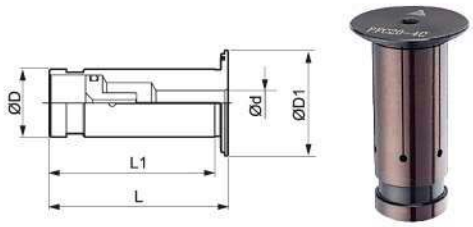


Model No.		Ød (mm)	ØD (mm)	M	L (mm)	L1 (mm)	Tool Clamping Depth L2 (mm)	Collet	Wrench
HSK63A	PFC20-105	20	52	M18 x 1.5	105	79	63	PFC20	PHS-ER32
	PFC32-135	32	69	M28 x 1.5	135	109	77	PFC32	PHS-PFC32
HSK100A	PFC20-120	20	52	M18 x 1.5	120	91	63	PFC20	PHS-ER32
	PFC32-150	32	69	M28 x 1.5	150	121	77	PFC32	PHS-PFC32

PFC/HY COLLET
PFC/HY 筒夾



一般型 Normal Type

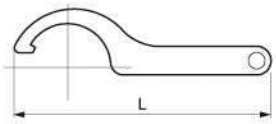


中心出水型(型式C) Coolant Through Type (-C)

Model No.	Precidion Class	ØD (mm)	Ød	ØD1 (mm)	L (mm)	L1 (mm)
PFC20	一般級 Normal	20	4,5,6,7,8,9, 10,12,14,16	25	51.5	49.5
PFC20-A	精密級 A Class					
PFC20-C	-			31	52.5	50.5
PFC32	一般級 Normal	32	6,8,10,12,14, 16,18,20,25	37.5	64	61.5
PFC32-A	精密級 A Class					
PFC32-C	-			45	63.5	60.5

PFC SPANNER FOR TOOL HOLDER
PFC 刀把扳手





Model No.	L (mm)	Tool Holder
PHS-ER32	205	PFC20
PHS-PFC32	242.8	PFC32

COLLET CHUCK / ER
ER 彈性筒夾刀桿



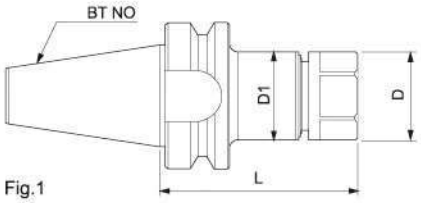


Fig.1

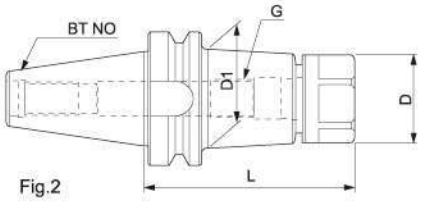


Fig.2

Dynamic Balance (rpm)	BT30	BT40	BT50
Without Balancing	8000	8000	3000 ~ 4000
With Balancing	30000	25000	20000

刀桿精度：0.005mm以上

Model No.	Fig.	Range Ø (mm)	ØD (mm)	ØD1 (mm)	L (mm)	G	Nut	Wrench	Weight (kgs)
BT30-ER11-060	1	1~7	19	19	60	M08 x P1.0	ER11A	ER11A	0.50
BT30-ER11-100	2	1~7	19	22	100	M08 x P1.0	ER11A	ER11A	0.55
BT30-ER16-060	1	1~10	28	28	60	M11 x P1.0	ER16A	ER16A	0.50
BT30-ER16-070	1	1~10	28	28	70	M11 x P1.0	ER16A	ER16A	0.55
BT30-ER16-100	1	1~10	28	28	100	M11 x P1.0	ER16A	ER16A	0.70
BT30-ER20-060	1	1~13	34	34	60	M14 x P1.0	ER20A	ER20A	0.55
BT30-ER20-070	1	1~13	34	34	70	M14 x P1.0	ER20A	ER20A	0.62
BT30-ER20-100	1	1~13	34	34	100	M14 x P1.0	ER20A	ER20A	0.80
BT30-ER25-060	3	1~13	42	42	60	M18 x P1.5	ER25UM	ER25UM	0.60
BT30-ER25-100	3	1~13	42	42	100	M18 x P1.5	ER25UM	ER25UM	0.63
BT30-ER32-060	3	3~20	50	50	60	M24 x P1.5	ER32UM	ER32UM	0.65
BT30-ER32-100	3	3~20	50	50	100	M24 x P1.5	ER32UM	ER32UM	1.00
BT40-ER11-070	1	1~7	19	19	70	M08 x P1.0	ER11A	ER11A	1.00
BT40-ER11-100	1	1~7	19	19	100	M08 x P1.0	ER11A	ER11A	1.10
BT40-ER16-070	1	1~10	28	28	70	M11 x P1.0	ER16A	ER16A	1.10
BT40-ER16-100	1	1~10	28	28	100	M11 x P1.0	ER16A	ER16A	1.20
BT40-ER16-125	1	1~10	28	28	125	M11 x P1.0	ER16A	ER16A	1.36
BT40-ER16-150	2	1~10	28	32	150	M11 x P1.0	ER16A	ER16A	1.54
BT40-ER16-200	2	1~10	28	34	200	M11 x P1.0	ER16A	ER16A	2.10
BT40-ER20-070	1	1~13	34	34	70	M14 x P1.0	ER20A	ER20A	1.20
BT40-ER20-100	1	1~13	34	34	100	M14 x P1.0	ER20A	ER20A	1.40
BT40-ER20-125	1	1~13	34	34	125	M14 x P1.0	ER20A	ER20A	1.60
BT40-ER20-150	2	1~13	34	40	150	M14 x P1.0	ER20A	ER20A	1.70
BT40-ER20-200	2	1~13	34	42	200	M14 x P1.0	ER20A	ER20A	2.35
BT40-ER25-070	3	2~16	42	42	70	M18 x P1.5	ER25UM	ER25UM	1.20
BT40-ER25-080	3	2~16	42	42	80	M18 x P1.5	ER25UM	ER25UM	1.30
BT40-ER25-100	3	2~16	42	42	100	M18 x P1.5	ER25UM	ER25UM	1.45
BT40-ER25-125	3	2~16	42	42	125	M18 x P1.5	ER25UM	ER25UM	1.80
BT40-ER25-150	4	2~16	42	48	150	M18 x P1.5	ER25UM	ER25UM	1.90
BT40-ER25-200	4	2~16	42	50	200	M18 x P1.5	ER25UM	ER25UM	2.85
BT40-ER32-070	3	3~20	50	50	70	M24 x P1.5	ER32UM	ER32UM	1.30
BT40-ER32-100	3	3~20	50	50	100	M24 x P1.5	ER32UM	ER32UM	1.50
BT40-ER32-125	3	3~20	50	50	125	M24 x P1.5	ER32UM	ER32UM	1.99
BT40-ER32-150	4	3~20	50	55	150	M24 x P1.5	ER32UM	ER32UM	2.00
BT40-ER32-200	4	3~20	50	55	200	M24 x P1.5	ER32UM	ER32UM	2.50

※適用於：一般銑削/鑽孔加工/剛性攻牙。 ※Application: General milling / drilling / rigid tapping.

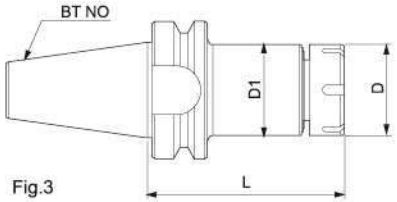


Fig.3

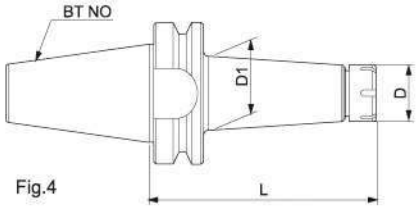


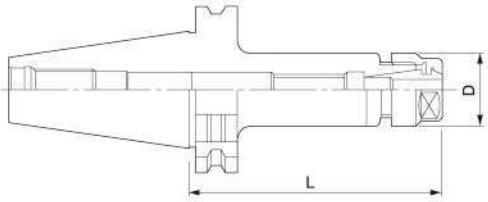
Fig.4



Model No.	Fig.	Range Ø (mm)	ØD (mm)	ØD1 (mm)	L (mm)	G	Nut	Wrench	Weight (kgs)
BT40-ER40-080	3	3~26	63	63	80	M28 x P1.5	ER40UM	ER40UM	1.55
BT40-ER40-100	3	3~26	63	63	100	M28 x P1.5	ER40UM	ER40UM	1.80
BT40-ER40-120	3	3~26	63	63	120	M28 x P1.5	ER40UM	ER40UM	2.50
BT40-ER40-150	3	3~26	63	63	150	M28 x P1.5	ER40UM	ER40UM	3.10
BT40-ER40-200	3	3~26	63	63	200	M28 x P1.5	ER40UM	ER40UM	3.63
BT50-ER16-100	1	1~10	28	28	100	M11 x P1.0	ER16A	ER16A	3.80
BT50-ER16-125	1	1~10	28	28	125	M11 x P1.0	ER16A	ER16A	4.35
BT50-ER16-150	2	1~10	28	32	150	M11 x P1.0	ER16A	ER16A	4.00
BT50-ER16-200	2	1~10	28	34	200	M11 x P1.0	ER16A	ER16A	4.30
BT50-ER16-250	2	1~10	28	36	250	M11 x P1.0	ER16A	ER16A	4.70
BT50-ER20-100	1	1~13	34	34	100	M14 x P1.0	ER20A	ER20A	3.90
BT50-ER20-125	1	1~13	34	34	125	M14 x P1.0	ER20A	ER20A	4.50
BT50-ER20-150	2	1~13	34	40	150	M14 x P1.0	ER20A	ER20A	4.20
BT50-ER20-200	2	1~13	34	42	200	M14 x P1.0	ER20A	ER20A	4.50
BT50-ER20-250	2	1~13	34	45	250	M14 x P1.0	ER20A	ER20A	5.10
BT50-ER20-300	2	1~13	34	48	300	M14 x P1.0	ER20A	ER20A	5.30
BT50-ER25-100	3	2~16	42	42	100	M18 x P1.5	ER25UM	ER25UM	4.00
BT50-ER25-125	3	2~16	42	42	125	M18 x P1.5	ER25UM	ER25UM	4.50
BT50-ER25-150	3	2~16	42	42	150	M18 x P1.5	ER25UM	ER25UM	4.80
BT50-ER25-200	4	2~16	42	46	200	M18 x P1.5	ER25UM	ER25UM	4.90
BT50-ER25-250	4	2~16	42	48	250	M18 x P1.5	ER25UM	ER25UM	5.30
BT50-ER25-300	4	2~16	42	52	300	M18 x P1.5	ER25UM	ER25UM	5.70
BT50-ER32-080	3	3~20	50	50	80	M24 x P1.5	ER32UM	ER32UM	4.70
BT50-ER32-100	3	3~20	50	50	100	M24 x P1.5	ER32UM	ER32UM	4.30
BT50-ER32-125	3	3~20	50	50	125	M24 x P1.5	ER32UM	ER32UM	4.75
BT50-ER32-150	3	3~20	50	50	150	M24 x P1.5	ER32UM	ER32UM	5.30
BT50-ER32-200	4	3~20	50	55	200	M24 x P1.5	ER32UM	ER32UM	6.00
BT50-ER32-250	4	3~20	50	58	250	M24 x P1.5	ER32UM	ER32UM	6.60
BT50-ER32-300	4	3~20	50	60	300	M24 x P1.5	ER32UM	ER32UM	6.70
BT50-ER40-080	3	3~26	63	63	80	M28 x P1.5	ER40UM	ER40UM	4.30
BT50-ER40-100	3	3~26	63	63	100	M28 x P1.5	ER40UM	ER40UM	4.40
BT50-ER40-125	3	3~26	63	63	125	M28 x P1.5	ER40UM	ER40UM	5.15
BT50-ER40-150	3	3~26	63	63	150	M28 x P1.5	ER40UM	ER40UM	5.50
BT50-ER40-200	4	3~26	63	66	200	M28 x P1.5	ER40UM	ER40UM	6.20
BT50-ER40-250	4	3~26	63	68	250	M28 x P1.5	ER40UM	ER40UM	7.90

※適用於：一般銑削/鑽孔加工/剛性攻牙。 ※Application: General milling / drilling / rigid tapping.

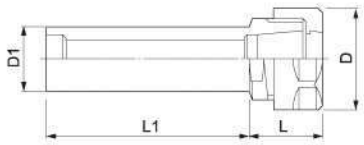
SK COLLET CHUCK / ER
ER 銑刀夾頭





Model No.	Clamping Range (mm)	L (mm)	ØD (mm)	Collet	Weight (kgs)
SK40-ER16-70	0.5-10	70	28	ER-16	1.0
SK40-ER16-100	0.5-10	100	28	ER-16	1.2
SK40-ER20-70	1-13	70	34	ER-20	1.1
SK40-ER20-100	1-13	100	34	ER-20	1.3
SK40-ER25-80	1-16	80	42	ER-25	1.2
SK40-ER25-100	1-16	100	42	ER-25	1.0
SK40-ER32-70	2-20	70	50	ER-32	1.2
SK40-ER32-100	2-20	100	50	ER-32	1.3
SK40-ER40-80	3-26	80	63	ER-40	1.4
SK40-ER40-100	3-26	100	63	ER-40	1.8
SK50-ER16-100	0.5-10	100	28	ER-16	3.5
SK50-ER20-100	1-13	100	34	ER-20	3.5
SK50-ER25-100	1-16	100	42	ER-25	3.7
SK50-ER32-100	2-20	100	50	ER-32	3.7
SK50-ER40-100	3-26	100	63	ER-40	4.3

STRAIGHT SHANK COLLET CHUCK
直柄ER夾頭





Model No.	L1 (mm)	L (mm)	ØD (mm)	ØD1 (mm)	Weight (kgs)
Ø16-ER11 x 50	50	25	19	16	0.15
Ø16-ER11 x 100	100	25	19	16	0.18
Ø20-ER16 x 50	50	30	28	20	0.17
Ø20-ER16 x 60	60	30	28	20	0.25
Ø20-ER16 x 100	100	30	28	20	0.30
Ø20-ER16 x 150	110	40	28	20	0.43
Ø20-ER16 x 200	125	75	28	20	0.60
Ø20-ER20 x 50	50	35	34	20	0.22
Ø20-ER20 x 75	75	35	34	20	0.50
Ø20-ER20 x 100	100	35	34	20	0.33
Ø20-ER20 x 150	150	35	34	20	0.44
Ø20-ER20 x 200	200	35	34	20	0.62
Ø20-ER20 x 250	150	100	34	20	0.72
Ø20-ER20 x 300	180	120	34	20	0.85

Model No.	L1 (mm)	L (mm)	ØD (mm)	ØD1 (mm)	Weight (kgs)
Ø25-ER16 x 50	50	30	28	25	0.27
Ø25-ER16 x 100	100	30	28	25	0.45
Ø25-ER20 x 50	50	35	34	25	0.27
Ø25-ER20 x 75	75	35	34	25	0.30
Ø25-ER20 x 100	100	35	34	25	0.70
Ø25-ER20 x 150	150	35	34	25	0.62
Ø25-ER25 x 75	75	35	42	25	0.29
Ø25-ER25 x 100	100	35	42	25	0.50
Ø32-ER25 x 75	75	35	42	32	0.45
Ø32-ER25 x 100	100	35	42	32	0.74
Ø32-ER32 x 100	100	40	50	32	0.91
Ø32-ER32 x 150	150	40	50	32	1.16
Ø32-ER32 x 200	150	50	50	32	1.47

NT ER COLLET CHUCK SET
ER 銑刀夾頭套組



NT40-ER20-76 / 12PCS



NT40-ER40-60 / 23PCS

Model No.	Set Range (mm)	Collect	Draw Bar G	Weight (kgs)
NT30-ER16-76-10	1-10	ER16 10PCS		1.7
NT30-ER20-76-12	2-13	ER20 12PCS	1. M12 x 1.75P	1.8
NT30-ER25-55-15	2-16	ER25 15PCS	2. 1/2" - 12	2.8
NT30-ER25-55-7	4-16	ER25 7PCS		2.4
NT30-ER32-55-18	3-20	ER32 18PCS		4.2
NT30-ER32-55-11	4-20	ER32 11PCS		3.2
NT30-ER32-55-6	6-20	ER32 6PCS	1. M12 x 1.75P	2.8
NT30-ER40-70-23	4-26	ER40 23PCS	2. 1/2" - 12	7.3
NT30-ER40-70-15	4-26	ER40 15PCS	3. 1/2" - 13UNC	6.0
NT30-ER40-70-7	6-25	ER40 7PCS		4.6
NT40-ER16-76-10	1-10	ER16 10PCS		2.4
NT40-ER20-76-12	2-13	ER20 12PCS	1. M16 x 2.0P	2.5
NT40-ER25-50-15	2-16	ER25 15PCS	2. 5/8" - 11	3.3
NT40-ER25-50-7	4-16	ER25 7PCS		3.0
NT40-ER32-50-18	3-20	ER32 18PCS		4.8
NT40-ER32-50-11	4-20	ER32 11PCS		3.8
NT40-ER32-50-6	6-20	ER32 6PCS	1. M16 x 2.0P	3.4
NT40-ER40-60-23	4-26	ER40 23PCS	2. 5/8" - 11	8.2
NT40-ER40-60-15	4-26	ER40 15PCS		6.9
NT40-ER40-60-7	6-25	ER40 7PCS		5.2
NT50-ER32-60-18	3-20	ER32 18PCS		6.4
NT50-ER32-60-11	4-20	ER32 11PCS		5.4
NT50-ER32-60-6	6-20	ER32 6PCS	1. M24x3.0P	5.0
NT50-ER40-65-23	4-26	ER40 23PCS	2. 1" - 8	9.8
NT50-ER40-65-15	4-26	ER40 15PCS		8.5
NT50-ER40-65-7	6-25	ER40 7PCS		7.0

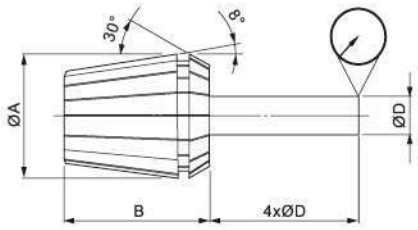
ER SPRING COLLET KIT
ER 筒夾組



Model No.	Collet Type	Set (pcs)	Range Size (mm)	Packing	Weight (kgs)
ER08-09	ER08	9 PCS	1, 1.5, 2, 2.5, 3, 3.5 , 4, 4.5, 5	Plactic box	0.08
ER11-07	ER11	7 PCS	1, 2, 3, 4, 5, 6, 7	Paper box	0.20
ER11-13	ER11	13 PCS	1, 1.5, 2, 2.5, 3, 3.5 , 4, 4.5, 5, 5.5, 6, 6.5, 7	Wooden tray	0.30
ER16-08	ER16	8 PCS	3, 4 ,5, 6, 7, 8, 9, 10	Paper box	0.60
ER16-10	ER16	10 PCS	1, 2, 3, 4, 5, 6, 7, 8, 9, 10	Wooden tray	0.70
ER20-10	ER20	10 PCS	4, 5, 6, 7, 8, 9, 10, 11, 12, 13	Paper box	0.80
ER20-12	ER20	12 PCS	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	Wooden tray	0.90
ER25-07	ER25	7 PCS	4, 6, 8, 10, 12, 14, 16	Paper box	0.35
ER25-15	ER25	15 PCS	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	Wooden box	1.30
ER32-06	ER32	6 PCS	6, 8, 10, 12, 16, 20	Paper box	0.90
ER32-11	ER32	11 PCS	4, 5, 6, 8, 10, 12, 13, 15, 16, 18, 20	Plastic box	2.80
ER32-18	ER32	18 PCS	3 ,4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	Plastic box	3.30
ER40-07	ER40	7 PCS	6, 8, 10, 12, 16, 20, 25	Paper box	2.00
ER40-15	ER40	15 PCS	4, 5, 6, 8, 10, 12, 13, 15, 16, 18, 20, 21, 22, 25, 26	Plastic box	4.20
ER40-23	ER40	23 PCS	4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26	Plastic box	6.50
ER50-12	ER50	12 PCS	12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34	Wooden tray	6.50

ER SPRING COLLET SYSTEM
ER 筒夾





Dimension

Type	A	B	Weight (kgs)
ER08	8.5	13.5	0.005
ER11	11.5	18	0.01
ER16	17	27	0.02
ER20	21	31	0.05
ER25	26	35	0.08
ER32	33	40	0.17
ER40	41	46	0.30
ER50	52	60	0.45

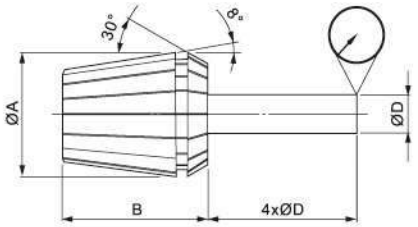
Accuracy (at 4xD length)

Standard Precision	A Class	AA Class
0.015	0.01	0.005

ER08 A/AA		ER11 A/AA		ER16 A/AA		ER20 A/AA	
ØD (mm)	Clamping Range (mm)	ØD (mm)	Clamping Range (mm)	ØD (mm)	Clamping Range (mm)	ØD (mm)	Claiping Range (mm)
1.0	1.0~0.5	1.0	1.0~0.5	1.0	1.0~0.5	1.0	1.0~0.5
1.5	1.5~1.0	1.5	1.5~1.0	1.5	1.5~1.0	1.5	1.5~1.0
2.0	2.0~1.5	2.0	2.0~1.5	2.0	2.0~1.5	2.0	2.0~1.5
2.5	2.5~2.0	2.5	2.5~2.0	2.5	2.5~2.0	2.5	2.5~2.0
3.0	3.0~2.5	3.0	3.0~2.5	3.0	3.0~2.5	3.0	3.0~2.5
3.5	3.5~3.0	3.5	3.5~3.0	3.5	3.5~3.0	3.5	3.5~3.0
4.0	4.0~3.5	4.0	4.0~3.5	4.0	4.0~3.5	4.0	4.0~3.5
4.5	4.5~4.0	4.5	4.5~4.0	4.5	4.5~4.0	4.5	4.5~4.0
5.0	5.0~4.5	5.0	5.0~4.5	5.0	5.0~4.5	5.0	5.0~4.5
		5.5	5.5~5.0	5.5	5.5~5.0	5.5	5.5~5.0
		6.0	6.0~5.5	6.0	6.0~5.5	6.0	6.0~5.5
		6.5	6.5~6.0	6.5	6.5~6.0	6.5	6.5~6.0
		7.0	7.0~6.5	7.0	7.0~6.5	7.0	7.0~6.5
				7.5	7.5~7.0	7.5	7.5~7.0
				8.0	8.0~7.5	8.0	8.0~7.5
				8.5	8.5~8.0	8.5	8.5~8.0
				9.0	9.0~8.5	9.0	9.0~8.5
				9.5	9.5~9.0	9.5	9.5~9.0
				10.0	10.0~9.5	10.0	10.0~9.5
						10.5	10.5~10.0
						11.0	11.0~10.5
						11.5	11.5~11.0
						12.0	12.0~11.5
						12.5	12.5~12.0
						13.0	13.0~12.5

ER SPRING COLLET SYSTEM
ER 筒夾





Dimension

Type	A	B	Weight (kgs)
ER08	8.5	13.5	0.005
ER11	11.5	18	0.01
ER16	17	27	0.02
ER20	21	31	0.05
ER25	26	35	0.08
ER32	33	40	0.17
ER40	41	46	0.30
ER50	52	60	0.45

Accuracy (at 4xD length)

Standard Precision	A Class	AA Class
0.015	0.01	0.005

ER25 A/AA	
ØD (mm)	Clamping Range (mm)
1	1.0~0.5
2	2.0~1.0
3	3.0~2.0
4	4.0~3.0
5	5.0~4.0
6	6.0~5.0
7	7.0~6.0
8	8.0~7.0
9	9.0~8.0
10	10.0~9.0
11	11.0~10.0
12	12.0~11.0
13	13.0~12.0
14	14.0~13.0
15	15.0~14.0
16	16.0~15.0

ER32 A/AA	
ØD (mm)	Clamping Range (mm)
2	2.0~1.0
3	3.0~2.0
4	4.0~3.0
5	5.0~4.0
6	6.0~5.0
7	7.0~6.0
8	8.0~7.0
9	9.0~8.0
10	10.0~9.0
11	11.0~10.0
12	12.0~11.0
13	13.0~12.0
14	14.0~13.0
15	15.0~14.0
16	16.0~15.0
17	17.0~16.0
18	18.0~17.0
19	19.0~18.0
20	20.0~19.0

ER40 A/AA	
ØD (mm)	Clamping Range (mm)
3	3.0~2.0
4	4.0~3.0
5	5.0~4.0
6	6.0~5.0
7	7.0~6.0
8	8.0~7.0
9	9.0~8.0
10	10.0~9.0
11	11.0~10.0
12	12.0~11.0
13	13.0~12.0
14	14.0~13.0
15	15.0~14.0
16	16.0~15.0
17	17.0~16.0
18	18.0~17.0
19	19.0~18.0
20	20.0~19.0
21	21.0~20.0
22	22.0~21.0
23	23.0~22.0
24	24.0~23.0
25	25.0~24.0
26	26.0~25.0

ER50 A/AA	
ØD (mm)	Clamping Range (mm)
12	12.0~10.0
14	14.0~12.0
16	16.0~14.0
18	18.0~16.0
20	20.0~18.0
22	22.0~20.0
24	24.0~22.0
26	26.0~24.0
28	28.0~26.0
30	30.0~28.0
32	32.0~30.0
34	34.0~32.0

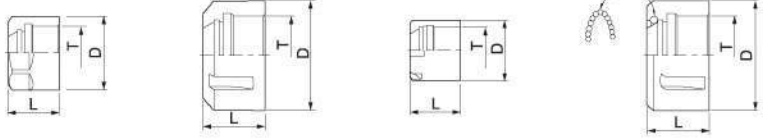
ER COLLET CHUCK NUT (DIN6499)
ER 螺帽


Fig.1


Fig.2


Fig.3


Fig.4



	Model No.	Fig.	ØD (mm)	L (mm)	T	Collet Type	Weight (kgs)
Standard Nut 普通螺帽	ER11A-NUT	1	19	11.3	M14 x 0.75P	ER11	0.01
	ER16A-NUT	1	28	18.5	M22 x 1.5P	ER16	0.04
	ER20A-NUT	1	34	20.0	M25 x 1.5P	ER20	0.07
	ER25UM-NUT	2	42	21.5	M32 x 1.5P	ER25	0.11
	ER32UM-NUT	2	50	23.0	M40 x 1.5P	ER32	0.15
	ER40UM-NUT	2	63	29.0	M50 x 1.5P	ER40	0.30
	ER50UM-NUT	2	78	35.0	M64 x 2.0P	ER50	0.50
M Type Nut M型螺帽	ER08M-NUT	3	12	10.8	M10 x 0.75P	ER08	0.01
	ER11M-NUT	3	16	12.0	M13 x 0.75P	ER11	0.01
	ER16M-NUT	3	22	17.0	M19 x 1.0P	ER16	0.02
	ER20M-NUT	3	28	19.0	M24 x 1.0P	ER20	0.03
Bearing Nut 鋼珠螺帽	ER16KM-NUT	4	32	19.0	M22 x 1.5P	ER16	0.07
	ER20KM-NUT	4	36	21.0	M25 x 1.5P	ER20	0.09
	ER25KM-NUT	4	43	22.5	M32 x 1.5P	ER25	0.13
	ER32KM-NUT	4	51	23.0	M40 x 1.5P	ER32	0.16
	ER40KM-NUT	4	63	28.0	M50 x 1.5P	ER40	0.31
	ER50KM-NUT	4	78	34.0	M64 x 2.0P	ER50	0.58

ER COLLET CHUCK WRENCH
ER 扳手



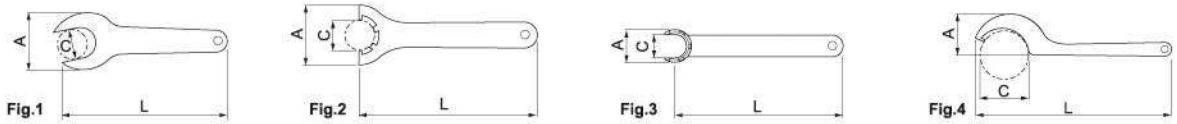
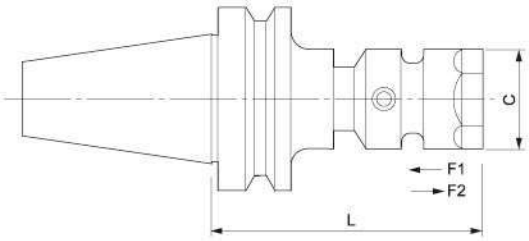


Fig.1 Fig.2 Fig.3 Fig.4

	Model No.	Fig.	L (mm)	A (mm)	C (mm)	Suit for	Weight (kgs)
Standard Wrench 普通扳手	ER11(A)	1	140	29	17	ER11	0.08
	ER16 (A)	1	142	45	25	ER16	0.12
	ER20 (A)	1	162	54	30	ER20	0.17
	ER25 (UM)	2	206	65	37	ER25	0.22
	ER32 (UM)	2	253	75	46.5	ER32	0.30
	ER40 (UM)	2	289	90	58	ER40	0.36
	ER50 (UM)	2	350	110	-	ER50	0.70

	Model No.	Fig.	L (mm)	A (mm)	C (mm)	Suit for	Weight (kgs)
M Type Wrench M型扳手	ER08(M)	3	75	13	-	ER08	0.02
	ER11(M)	3	95	17	8.5	ER11	0.03
	ER16(M)	3	117	22.5	12.5	ER16	0.05
	ER20(M)	3	127	28.5	15.5	ER20	0.07
C Type Wrench (for bearing nut) C型扳手 (鋼珠螺帽用)	ER16(KM/RD)	4	205	-	30~32	ER16	0.16
	ER20(KM/RD)	4	215	-	36~38	ER20	0.18
	ER25(KM/RD)	4	220	-	43~45	ER25	0.21
	ER32(KM/RD)	4	230	-	50~53	ER32	0.22
	ER40(KM/RD)	4	260	-	60~63	ER40	0.25
	ER50(KM/RD)	4	285	-	76~78	ER50	0.90

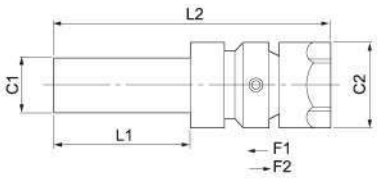
BT TAPPING HOLDER / TER
ER 伸縮攻牙器





Model No.	Tapping Range	C (mm)	L (mm)	F1 (mm)	F2 (mm)	Weight (kgs)
BT30-TER16-75	M3-M12	28	75	4	8	0.62
BT30-TER20-100	M4-M16	34	100	4	8	1.20
BT30-TER32-120	M8-M27	50	120	4	8	1.39
BT40-TER16-75	M3-M12	28	75	4	8	1.23
BT40-TER16-100	M3-M12	28	100	4	8	1.32
BT40-TER20-80	M4-M16	34	80	4	8	1.00
BT40-TER20-100	M4-M16	34	100	4	8	1.00
BT40-TER20-150	M4-M16	34	150	4	8	1.67
BT40-TER32-100	M8-M27	50	100	4	10	1.78
BT40-TER32-150	M8-M27	50	150	4	10	1.90
BT50-TER16-100	M3-M12	28	100	4	8	4.01
BT50-TER16-125	M3-M12	28	125	4	8	4.20
BT50-TER16-150	M3-M12	28	150	4	8	4.30
BT50-TER20-120	M4-M16	34	120	4	8	4.23
BT50-TER20-150	M4-M16	34	150	4	8	4.30
BT50-TER32-100	M8-M27	50	100	4	10	4.32
BT50-TER32-150	M8-M27	50	150	4	10	5.00

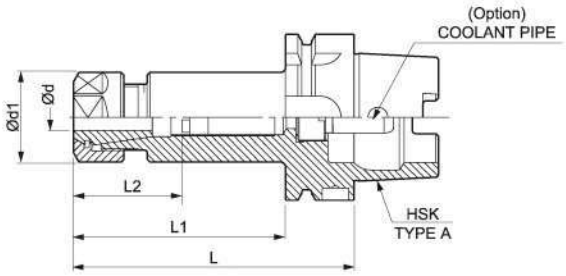
TAPPING HOLDER / TER
ER 伸縮攻牙器





Model No.	Tapping Range	L1 (mm)	L2 (mm)	C1 (mm)	C2 (mm)	F1 (mm)	F2 (mm)	Weight (kgs)
C20-TER16-80	M3-M12	80	130	20	28	4	8	0.69
C20-TER20-80	M4-M16	80	150	20	34	4	8	0.86
C25-TER16-80	M3-M12	80	130	25	28	4	8	0.68
C25-TER20-80	M4-M16	80	150	25	34	4	8	0.85
C32-TER32-80	M8-M27	80	170	32	50	4	10	1.19
SL20-TER16-80	M3-M12	80	130	20	28	4	8	0.69
SL20-TER20-80	M4-M16	80	150	20	34	4	8	0.84
SL25-TER16-80	M3-M12	80	130	25	28	4	8	0.81
SL25-TER20-80	M4-M16	80	150	25	34	4	10	0.95
SL32-TER32-80	M8-M27	80	170	32	50	4	10	1.38
SL32-TER32-150	M8-M27	80	170	32	50	4	10	1.55
SL40-TER32-80	M8-M27	80	170	32	50	4	10	1.50

HSK-A ER COLLET CHUCK
HSK-A ER 筒夾刀把

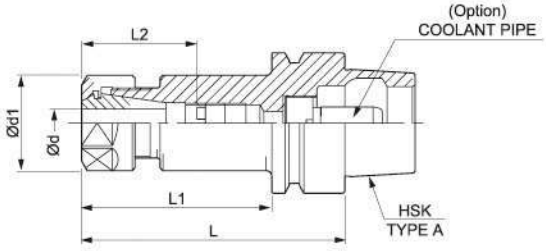






Model No.		Range Ød	Ød1 (mm)	L (mm)	L1 (mm)	Tool Clamping Depth L2	Nut	Screw	Collet	Wrench
HSK50A	ER16-100	0.6~10	28	100	74	29~58	ER16	ER-M11	ER16	ER16(A)
HSK50A	ER32-100	0.6~20	50	100	74	41~56	ER32	ER-M22	ER32	ER32(UM)
HSK63A	ER16-100	0.6~10	28	100	74	29~58	ER16	ER-M11	ER16	ER16(A)
HSK63A	ER16-160	0.6~10	28	160	134	29~58	ER16	ER-M11	ER16	ER16(A)
HSK63A	ER25-100	0.6~16	42	100	54	35~55	ER25	ER-M18	ER25	ER25(UM)
HSK63A	ER25-160	0.6~16	42	160	134	35~73	ER25	ER-M18	ER25	ER25(UM)
HSK63A	ER32-100	1.6~20	50	100	74	41~54	ER32	ER-M22	ER32	ER32(UM)
HSK63A	ER32-160	1.6~20	50	160	134	41~78	ER32	ER-M22	ER32	ER32(UM)
HSK63A	ER40-120	2.6~26	63	120	94	50~68	ER40	ER-M28	ER40	ER40(UM)
HSK100A	ER16-100	0.6~10	28	100	71	29~58	ER16	ER-M1	ER16	ER16(A)
HSK100A	ER16-160	0.6~10	28	160	131	29~58	ER16	ER-M11	ER16	ER16(A)
HSK100A	ER25-100	0.6~16	42	100	71	35~53	ER25	ER-M18	ER25	ER25(UM)
HSK100A	ER25-160	0.6~16	42	160	131	35~73	ER25	ER-M18	ER25	ER25(UM)
HSK100A	ER32-100	1.6~20	50	100	71	41~49	ER32	ER-M22	ER32	ER32(UM)
HSK100A	ER32-160	1.6~20	50	160	131	41~78	ER32	ER-M22	ER32	ER32(UM)
HSK100A	ER40-120	2.6~26	63	120	97	50~68	ER40	ER-M28	ER40	ER40(UM)

HSK-E ER COLLET CHUCK
HSK-E ER 筒夾刀把







Model No.		Range Ød	Ød1 (mm)	L (mm)	L1 (mm)	Tool Clamping Depth L2	Nut	Screw	Collet	Wrench
HSK40E	ER20-080	0.6~13	34	80	60	32~41	ER20	ER-M14	ER20	ER20(A)
HSK40E	ER25-080	0.6~16	42	80	60	35~40	ER25	ER-M18	ER25	ER25(UM)
HSK50E	ER16-100	0.6~10	28	100	74	29~58	ER16	ER-M11	ER16	ER16(A)
HSK50E	ER20-100	0.6~13	34	100	74	32~59	ER20	ER-M14	ER20	ER20(A)
HSK50E	ER25-100	0.6~16	42	100	74	35~73	ER25	ER-M18	ER25	ER25(UM)
HSK50E	ER32-100	1.6~20	50	100	74	41~78	ER32	ER-M22	ER32	ER32(UM)

HSK-A ER COLLET CHUCK (HIGH SPEED BEARING NUT)
HSK-A ER 高速鋼珠螺帽刀把

RUN-OUT

5μm

BALANCING

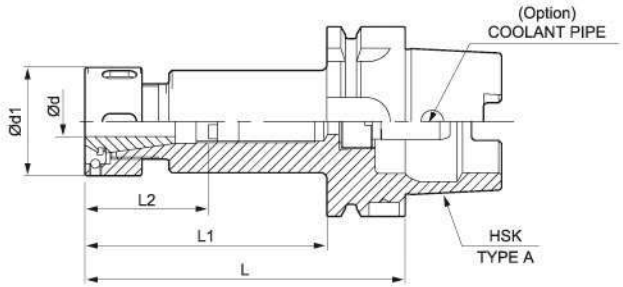
G6.3
25,000 rpm
or U ≤1 gmm

G2.5
25,000 rpm
or U ≤1 gmm
選配Option



APPLICATION





Model No.		Range Ød	Ød1 (mm)	L (mm)	L1 (mm)	Tool Clamping Depth L2	Nut	Screw	Collet	Wrench
HSK50A	ER16-100BR	1~10	32	100	74	29~58	CAP-ER16BR	ER-M11	ER16	PHS-ER16B
HSK50A	ER32-100BR	2~20	51	100	74	41~56	CAP-ER32BR	ER-M22	ER32	PHS-ER32
HSK63A	ER16-100BR	1~10	32	100	74	29~58	CAP-ER16BR	ER-M11	ER16	PHS-ER16B
HSK63A	ER16-160BR	1~10	32	160	134	29~58	CAP-ER16BR	ER-M11	ER16	PHS-ER16B
HSK63A	ER25-100BR	1~16	43	100	74	35~55	CAP-ER25BR	ER-M18	ER25	PHS-ER25
HSK63A	ER25-160BR	1~16	43	160	134	35~73	CAP-ER25BR	ER-M18	ER25	PHS-ER25
HSK63A	ER32-100BR	2~20	51	100	74	41~55	CAP-ER32BR	ER-M22	ER32	PHS-ER32
HSK63A	ER32-160BR	2~20	51	160	134	41~78	CAP-ER32BR	ER-M22	ER32	PHS-ER32
HSK100A	ER16-100BR	1~10	32	100	71	29~58	CAP-ER16BR	ER-M11	ER16	PHS-ER16B
HSK100A	ER16-160BR	1~10	32	160	131	29~58	CAP-ER16BR	ER-M11	ER16	PHS-ER16B
HSK100A	ER25-100BR	1~16	43	100	71	35~53	CAP-ER25BR	ER-M18	ER25	PHS-ER25
HSK100A	ER25-160BR	1~16	43	160	131	35~73	CAP-ER25BR	ER-M18	ER25	PHS-ER25
HSK100A	ER32-100BR	2~20	51	100	71	41~49	CAP-ER32BR	ER-M22	ER32	PHS-ER32
HSK100A	ER32-160BR	2~20	51	160	131	41~78	CAP-ER32BR	ER-M22	ER32	PHS-ER32

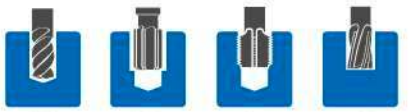
HSK-E ER COLLET CHUCK (HIGH SPEED BEARING NUT)
HSK-E ER 高速鋼珠螺帽刀把

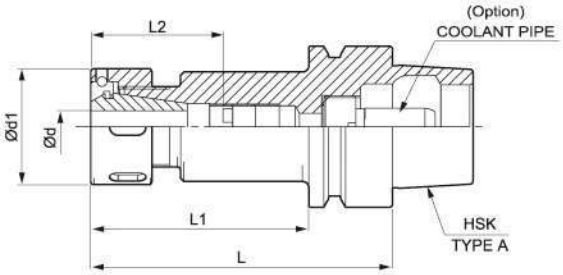


BALANCING

G6.3	G2.5
30,000 rpm or U ≤1 gmm	30,000 rpm or U ≤1 gmm 選配Option

APPLICATION





Model No.		Range Ød	Ød1 (mm)	L (mm)	L1 (mm)	Tool Clamping Depth L2	Nut	Screw	Collet	Wrench
HSK40E	ER20-080BR	1~13	36	80	60	32~41	CAP-ER20BR	ER-M14	ER20-HP	PHS-ER20B
HSK40E	ER25-080BR	1~16	43	80	60	35~40	CAP-ER25BR	ER-M18	ER25-HP	PHS-ER25
HSK50E	ER16-100BR	1~10	32	100	74	29~58	CAP-ER16BR	ER-M11	ER16-HP	PHS-ER16B
HSK50E	ER20-100BR	1~13	36	100	74	32~59	CAP-ER20BR	ER-M14	ER20-HP	PHS-ER20B
HSK50E	ER25-100BR	1~16	43	100	74	35~57	CAP-ER25BR	ER-M18	ER25-HP	PHS-ER25
HSK50E	ER32-100BR	2~20	51	100	74	41~56	CAP-ER32BR	ER-M22	ER32-HP	PHS-ER32

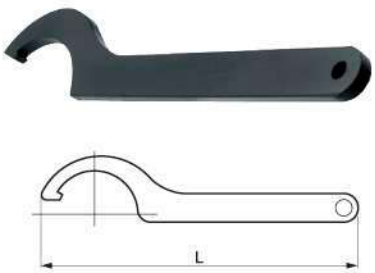
ER BALL BEARING NUT
ER 鋼珠螺帽

Model No.		ØD (mm)	L (mm)	M	SPANNER
Normal	High Speed				
CAP-ER16B	CAP-ER16BR	32	17	M22 x 1.5	PHS-ER16B
CAP-ER20B	CAP-ER20BR	36	19	M25 x 1.5	PHS-ER20B
CAP-ER25B	CAP-ER25BR	43	20	M32 x 1.5	PHS-ER25
CAP-ER32B	CAP-ER32BR	51	22.3	M40 x 1.5	PHS-ER32



SPANNER FOR ERB/ERBR NUT
ERB/ERBR 螺帽扳手

Model No.	L (mm)	Nut
PHS-ER16B	136	CAP-ER16B / CAP-ER16BR
PHS-ER20B	171	CAP-ER20B / CAP-ER20BR
PHS-ER25	170	CAP-ER25B / CAP-ER25BR
PHS-ER32	205	CAP-ER32B / CAP-ER32BR



BT-SK COLLET CHUCK SYSTEM
BT-SK 刀桿

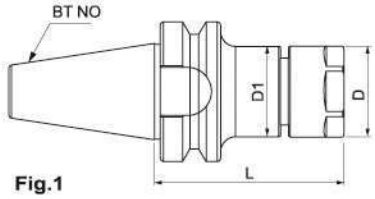


Fig.1

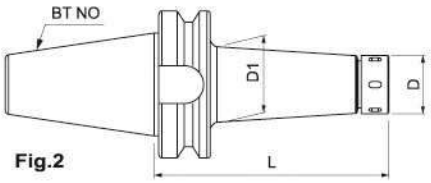


Fig.2





Dynamic Balance (rpm)	BT30	BT40
Without Balancing	8000	8000
With Balancing	30000	25000

Model No.	Fig.	Collet Range	L (mm)	ØD1	ØD	夾持深度	Collet	Weight (kgs)
BT30-SK06-60	1	2 - 6	60	20	20	60	SK06	0.90
BT30-SK06-90	1	2 - 6	90	20	20	80	SK06	1.15
BT30-SK10-45	1	2 - 10	45	30	30	50	SK10	0.80
BT30-SK10-60	1	2 - 10	60	30	30	60	SK10	0.54
BT30-SK10-90	1	2 - 10	90	30	30	80	SK10	0.75
BT30-SK10-130	1	2 - 10	130	30	30	100	SK10	1.30
BT30-SK13-60	1	3 - 13	60	35	37	65	SK13	1.10
BT30-SK13-75	1	3 - 13	75	35	37	75	SK13	1.25
BT30-SK13-90	1	3 - 13	90	35	37	85	SK13	0.76
BT30-SK16-60	1	3 - 16	60	35	37	65	SK16	0.56
BT30-SK16-90	1	3 - 16	90	40	42	85	SK16	0.84
BT30-SK20-60	1	3 - 20	60	40	42	65	SK20	0.70
BT30-SK20-90	1	3 - 20	90	50	51	75	SK20	1.20
BT30-SK25-90	1	4 - 25	90	55	56	85	SK25	0.97
BT40-SK06-60	1	2 - 6	60	20	20	60	SK06	1.00
BT40-SK06-90	1	2 - 6	90	20	20	100	SK06	1.15
BT40-SK10-60	1	2 - 10	60	30	30	70	SK10	1.15
BT40-SK10-90	1	2 - 10	90	30	30	80	SK10	1.10
BT40-SK10-120	1	2 - 10	120	30	30	100	SK10	1.20
BT40-SK10-150	2	2 - 10	150	30	30	100	SK10	1.30
BT40-SK10-165	2	2 - 10	165	36	30	100	SK10	1.40

Model No.	Fig.	Collet Range	L (mm)	ØD1	ØD	夾持深度	Collet	Weight (kgs)
BT40-SK10-200	2	2 - 10	200	36	30	100	SK10	1.50
BT40-SK13-60	1	3 - 13	60	35	37	70	SK13	1.20
BT40-SK13-90	1	3 - 13	90	35	37	80	SK13	1.40
BT40-SK13-120	1	3 - 13	120	35	37	100	SK13	1.60
BT40-SK13-150	2	3 - 13	150	35	37	100	SK13	1.70
BT40-SK13-165	2	3 - 13	165	42	37	100	SK13	1.84
BT40-SK13-200	2	3 - 13	200	42	37	100	SK13	2.00
BT40-SK16-60	1	3 - 16	60	40	42	70	SK16	1.00
BT40-SK16-90	1	3 - 16	90	40	42	75	SK16	1.09
BT40-SK16-120	1	3 - 16	120	40	42	130	SK16	1.68
BT40-SK16-150	1	3 - 16	150	40	42	150	SK16	1.90
BT40-SK16-165	2	3 - 16	165	50	42	150	SK16	2.08
BT40-SK16-200	2	3 - 16	200	50	42	150	SK16	2.10
BT40-SK20-60	1	3 - 20	60	50	51	80	SK20	1.30
BT40-SK20-90	1	3 - 20	90	50	51	100	SK20	1.56
BT40-SK20-120	1	3 - 20	120	50	51	120	SK20	1.93
BT40-SK20-150	1	3 - 20	150	50	51	120	SK20	2.39
BT40-SK20-200	1	3 - 20	200	50	51	120	SK20	2.20
BT40-SK25-80	1	4 - 25	80	55	56	95	SK25	1.65
BT40-SK25-120	1	4 - 25	120	55	56	120	SK25	1.80
BT40-SK25-150	1	4 - 25	150	55	56	120	SK25	2.64
BT40-SK25-200	1	4 - 25	200	55	56	120	SK25	3.50

※刀桿另有含動平衡系列可選購。 ※Optional for dynamic the balance series.

BT-SK COLLET CHUCK SYSTEM
BT-SK 刀桿

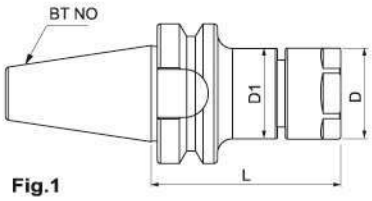


Fig.1



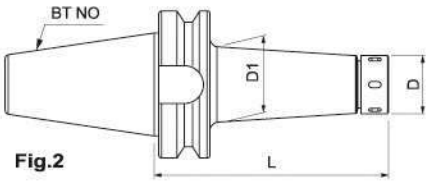


Fig.2



Dynamic Balance (rpm)	BT30	BT40
Without Balancing	8000	8000
With Balancing	30000	25000

Model No.	Fig.	Collet Range	L (mm)	ØD1	ØD	夾持深度	Collet	Weight (kgs)
BT50-SK10-105	1	2 - 10	105	30	30	100	SK10	3.83
BT50-SK10-135	1	2 - 10	135	30	30	100	SK10	4.26
BT50-SK10-150	2	2 - 10	150	34	30	120	SK10	4.60
BT50-SK10-165	2	2 - 10	165	34	30	120	SK10	4.17
BT50-SK10-200	2	2 - 10	200	36	30	120	SK10	4.33
BT50-SK13-105	1	3 - 13	105	35	37	100	SK13	4.50
BT50-SK13-135	1	3 - 13	135	35	37	120	SK13	4.14
BT50-SK13-150	2	3 - 13	150	40	37	130	SK13	4.34
BT50-SK13-165	2	3 - 13	165	40	37	150	SK13	4.45
BT50-SK13-200	2	3 - 13	200	42	37	150	SK13	4.79
BT50-SK16-65	1	3 - 16	65	40	42	80	SK16	3.97
BT50-SK16-105	1	3 - 16	105	40	42	120	SK16	4.50
BT50-SK16-135	1	3 - 16	135	40	42	130	SK16	4.23
BT50-SK16-150	1	3 - 16	150	40	42	150	SK16	4.39
BT50-SK16-165	2	3 - 16	165	46	42	150	SK16	4.63
BT50-SK16-200	2	3 - 16	200	46	42	150	SK16	5.03
BT50-SK16-250	2	3 - 16	250	48	42	180	SK16	5.51
BT50-SK16-300	2	3 - 16	300	52	42	180	SK16	6.41

Model No.	Fig.	Collet Range	L (mm)	ØD1	ØD	夾持深度	Collet	Weight (kgs)
BT50-SK20-105	1	3 - 20	105	50	51	100	SK20	4.19
BT50-SK20-135	1	3 - 20	135	50	51	120	SK20	4.60
BT50-SK20-150	1	3 - 20	150	50	51	150	SK20	4.70
BT50-SK20-165	1	3 - 20	165	50	51	180	SK20	5.00
BT50-SK20-200	1	3 - 20	200	50	51	180	SK20	5.40
BT50-SK20-250	2	3 - 20	250	58	51	180	SK20	6.10
BT50-SK20-300	2	3 - 20	300	58	51	180	SK20	7.83
BT50-SK25-105	1	4 - 25	105	55	56	120	SK25	4.25
BT50-SK25-135	1	4 - 25	135	55	56	120	SK25	4.73
BT50-SK25-150	1	4 - 25	150	55	56	150	SK25	4.97
BT50-SK25-165	1	4 - 25	165	55	56	150	SK25	5.50
BT50-SK25-200	1	4 - 25	200	55	56	150	SK25	5.67
BT50-SK25-250	2	4 - 25	250	62	56	150	SK25	6.89
BT50-SK25-300	2	4 - 25	300	62	56	150	SK25	8.35

※刀桿另有含動平衡系列可選購。 ※Optional for dynamic the balance series.

SK SPRING COLLET SYSTEM AA CLASS
SK 筒夾

The gripping range of Dia. Below 3mm is 0.25mm.
The gripping range of Dia. Over 3mm is 0.5mm.
The runout of AA collet is 5μ.



Type	D	L	Weight (kgs)
SK06	11	25	0.020
SK10	16	30	0.025
SK13	20	39	0.040
SK16	25	45	0.075
SK20	30	50	0.140
SK25	36	57	0.130

SK06 (AA Class)		SK10 (AA Class)		SK13 (AA Class)		SK16 (AA Class)		SK20 (AA Class)	
ØD (mm)	Clamping Range(mm)	ØD (mm)	Clamping Range(mm)	ØD (mm)	Clamping Range(mm)	ØD (mm)	Clamping Range(mm)	ØD (mm)	Clamping Range(mm)
3	3~2.75	2	2~1.75	3	3~2.75	3	3~2.75	3	3~2.75
3.175	3.175~2.7	2.5	2.5~2.25	3.175	3.175~2.7	3.175	3.175~2.7	4	4~3.5
3.5	3.5~3	3	3~2.75	3.5	3.5~3	3.5	3.5~3	6	6~5.5
4	4~3.5	3.175	3.175~2.7	4	4~3.5	4	4~3.5	8	8~7.5
4.5	4.5~4	3.5	3.5~3	4.5	4.5~4	4.5	4.5~4	10	10~9.5
5	5~4.5	4	4~3.5	5	5~4.5	5	5~4.5	12	12~11.5
5.5	5.5~5	4.5	4.5~4	5.5	5.5~5	5.5	5.5~5	14	14~13.5
6	6~5.5	5	5~4.5	6	6~5.5	6	6~5.5	16	16~15.5
		5.5	5.5~5	6.5	6.5~6	6.5	6.5~6	18	18~17.5
		6	6~5.5	7	7~6.5	7	7~6.5	20	20~19.5
		6.5	6.5~6	7.5	7.5~7	7.5	7.5~7		
		7	7~6.5	8	8~7.5	8	8~7.5		
		7.5	7.5~7	8.5	8.5~8	8.5	8.5~8		
		8	8~7.5	9	9~8.5	9	9~8.5		
		8.5	8.5~8	9.5	9.5~9	9.5	9.5~9		
		9	9~8.5	10	10~9.5	10	10~9.5		
		9.5	9.5~9	10.5	10.5~10	10.5	10.5~10		
		10	10~9.5	11	11~10.5	11	11~10.5		
				11.5	11.5~11	11.5	11.5~11		
				12	12~11.5	12	12~11.5		
				12.5	12.5~12	12.5	12.5~12		
				13	13~12.5	13	13~12.5		
						13.5	13.5~13		
						14	14~13.5		
						14.5	14.5~14		
						15	15~14.5		
						15.5	15.5~15		
						16	16~15.5		

SK25 (AA Class)	
ØD (mm)	Clamping Range(mm)
4	4~3.5
6	6~5.5
8	8~7.5
10	10~9.5
12	12~11.5
14	14~13.5
16	16~15.5
18	18~17.5
20	20~19.5

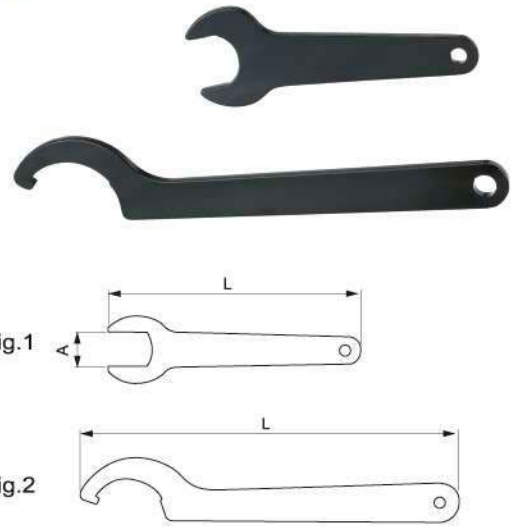
SK NUT
SK 螺帽



Fig.1 Fig.2

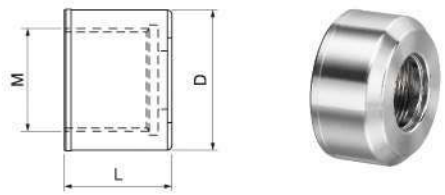
Model No.	Fig	Type	ØD	H (mm)	M	Weight (kgs)
SN0601	1	SK06	20	15.0	M15.5x1.0P	0.02
SN1001	1	SK10	30	18.0	M22x1.25P	0.05
SN1301	1	SK13	37	21.0	M28x1.5P	0.06
SN1601	1	SK16	42	24.8	M32x1.5P	0.08
SN2001	2	SK20	51	25.0	M40x1.5P	0.10
SN2501	2	SK25	56	26.0	M45x1.5P	0.12

WRENCH
扳手



Model No.	Fig	Type	A (mm)	L (mm)	Weight (kgs)
SW0601	1	SK06	17.3	130	0.07
SW1001	1	SK10	26.3	147	0.08
SW1301	1	SK13	33.3	175	0.25
SW1601	1	SK16	38.3	177	0.20
SW2001	2	SK20	ØD 50-53	230	0.22
SW2501	2	SK25	ØD 60-63	260	0.22

NUT
高速全圓螺帽



Model No.	ØD (mm)	H (mm)	M	Weight (kgs)
SN06G	20	15.0	M15.5 x 1.0P	0.02
SN10G	30	18.0	M22 x 1.25P	0.06
SN13G	35	21.0	M28 x 1.5P	0.06
SN16G	40	25.0	M32 x 1.5P	0.11
SN20G	50	25.0	M40 x 1.5P	0.14

WRENCH
全圓扳手



Model No.	A (mm)	L (mm)	Weight (kgs)
SW06G	20	125	0.39
SW10G	30	145	0.40
SW13G	35	155	0.45
SW16G	40	175	0.64
SW20G	50	195	0.69

HSK-A PFK COLLET CHUCK
HSK-A PFK 筒夾刀把

RUN-OUT

5μm

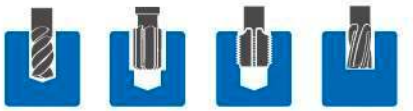
BALANCING

G6.3
25,000 rpm
or U ≤1 gmm

G2.5
25,000 rpm
or U ≤1 gmm
選配Option



APPLICATION



鑽孔 DRILLING　絞孔 REAMING　攻牙 TAPPING　銑削 ENDMILLING

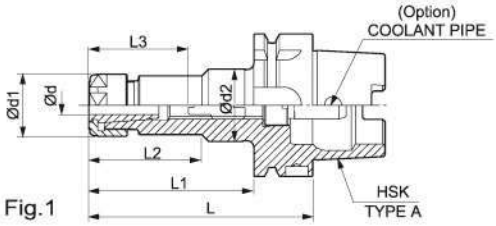


Fig.1

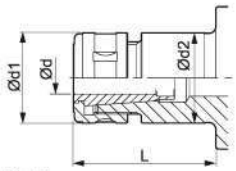


Fig.2

Model No.		Fig.	Range Ød	Ød1 (mm)	Ød2 (mm)	L (mm)	L1 (mm)	L2 (mm)	Tool Clamping Depth L3	Nut	Screw	Collet	Wrench
HSK50A	PFK6-100	1	0.7~6	19.5	32	100	74	63	21~35	CAP-PFK6	PFK-M8	SK6	PHS-PFK6
HSK50A	PFK10-100	2	1.75~10	27.5	27.5	100	74	-	30~40	CAP-PFK10	PFK-M12	SK10	PHS-PFK10
HSK50A	PFK16-100	2	2.75~16	40	40	100	74	-	40~48	CAP-PFK16	PFK-M12	SK16	PHS-PFK16
HSK63A	PFK6-100	1	0.7~6	19.5	32	100	74	63	21~35	CAP-PFK6	PFK-M8	SK6	PHS-PFK6
HSK63A	PFK10-105	2	1.75~10	27.5	27.5	105	79	-	30~40	CAP-PFK10	PFK-M12	SK10	PHS-PFK10
HSK63A	PFK16-105	2	2.75~16	40	40	105	79	-	40~48	CAP-PFK16	PFK-M12	SK16	PHS-PFK16
HSK63A	PFK25-120	2	16~25.4	55	55	120	94	-	50~61	CAP-PFK25	PFK-M12	SK25	PHS-PFK25

HSK-E PFK COLLET CHUCK
HSK-E PFK 筒夾刀把

RUN-OUT

5μm

BALANCING

G6.3 30,000 rpm or U ≤1 gmm

G2.5 30,000 rpm or U ≤1 gmm 選配Option



APPLICATION



鑽孔 DRILLING　絞孔 REAMING　銑削 ENDMILLING　攻牙 TAPPING

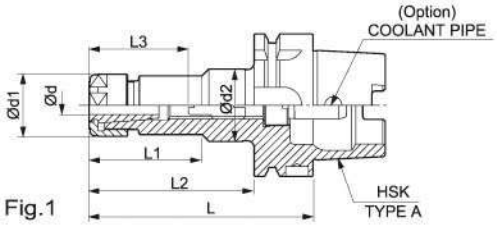


Fig.1

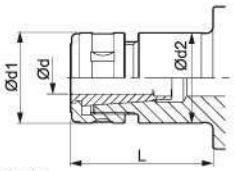


Fig.2

Model No.		Fig.	Range Ød	Ød1 (mm)	Ød2 (mm)	L (mm)	L1 (mm)	L2 (mm)	Tool Clamping Depth L3	Nut	Screw	Collet	Wrench
HSK40E	PFK6-080	2	0.7~6	19.5	19.5	80	-	60	21~30	CAP-PFK6	PFK-M8	SK6	PHS-PFK6
HSK40E	PFK10-080	2	1.75~10	27.5	27.5	80	-	60	max 58.5	CAP-PFK10	-	SK10	PHS-PFK10
HSK40E	PFK16-080	2	2.75~16	40	40	80	-	60	max 49.5	CAP-PFK16	-	SK16	PHS-PFK16
HSK50E	PFK6-100	1	0.7~6	19.5	32	100	63	74	21~35	CAP-PFK6	PFK-M8	SK6	PHS-PFK6
HSK50E	PFK10-100	2	1.75~10	27.5	27.5	100	-	74	30~40	CAP-PFK10	PFK-M12	SK10	PHS-PFK10
HSK50E	PFK16-100	2	2.75~16	40	40	100	-	74	40~48	CAP-PFK16	PFK-M12	SK16	PHS-PFK16

PFK NUT
PFK 螺帽

Model No.	Fig.	ØD (mm)	L (mm)	M	SPANNER
CAP-PFK6	1	19.5	15	M15.5 x 1.0	PHS-PFK6
CAP-PFK10	1	27.5	17	M21.5 x 1.0	PHS-PFK10
CAP-PFK16	2	40	24	M32 x 1.5	PHS-PFK25
CAP-PFK25	2	55	30	M45 x 1.5	PHS-PFK32

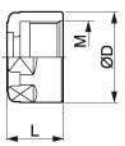


Fig.1

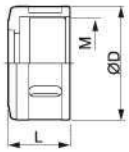


Fig.2



PFK SPANNER NUT
PFK 螺帽扳手



Model No.	Fig.	A (mm)	H (mm)	L (mm)	Nut
PHS-PFK6	1	39	18.1	152.8	CAP-PFK6
PHS-PFK10	1	50	25.5	174.5	CAP-PFK10
PHS-PFK25	2	-	-	170	CAP-PFK16
PHS-PFK32	2	-	-	205	CAP-PFK25

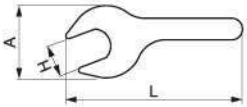


Fig.1

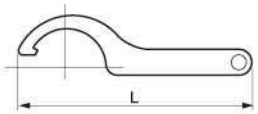


Fig.2

SHRINK FIT DEVICE 熱縮燒結機



GIS-6000A



GIS-10000A

	GIS-6000A	GIS-10000A
Voltage 電源	220V, 1 phase / 單相 220V	220V, 3 phase / 三相 220V
Current 電流	24A ± 5A	24A ± 5A
Air pressure 空壓	5kg	5kg
Frequency 頻率	20-30Khz ± 5khz	20-30Khz ± 5khz
Dimension 尺寸	520 x 410 x 740mm	650 x 630 x 700mm
Output power 輸出功率	4kw	10kw
Weight 重量	21kg	37kg
Suitable adaptor 適用刀桿底座	BT30-50, HSK40, 50, 63, 80, 100	BT30-50, HSK40, 50, 63, 80, 100
Tools 適用刀直徑	Solid carbide and HSS from Ø3-16mm, max. tool length 300mm 鎢鋼材質和HSS材質，Ø3-16mm，最長長度300mm	Solid carbide and HSS from Ø3-50mm, max. tool length 300mm 鎢鋼材質和HSS材質，Ø3-50mm，最長長度300mm
Standard accessories 標準配件	BT50 & BT40 adaptor x1, induction ring Ø6-12mm & Ø14-16mm x1, plier x1 BT50 & BT40刀桿底座各一個、導熱環Ø6-12mm和Ø14-16mm各一個，夾子一支	

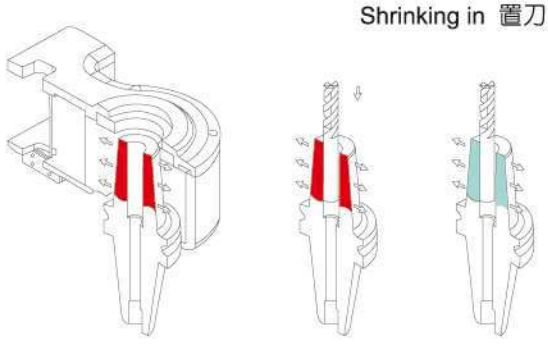
COOLING SYSTEM 刀把冷卻機



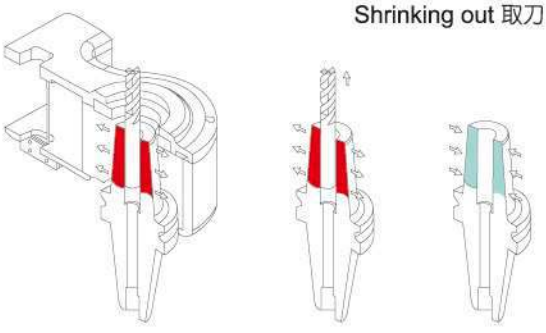
	GCS-1
Capacity 容量	15L
Weight 重量	21kg
Dimension 尺寸	400 x 560 x 480 (210)mm
Output current 輸出電流	0.26A
Power consumption 消耗功率	57W
Voltage 電源	220V/110V 單相 1 phase
Standard accessories 標準配件	BT50 & BT40 adaptor x2, water shieldx1 BT50 & BT40底座環X2、噴水桶X1

PRINCIPLE DRAWING 應用原理圖

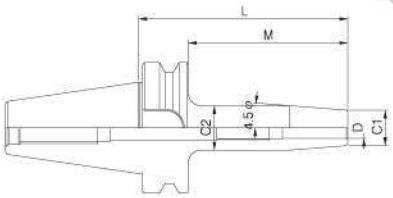
Shrinking in 置刀



Shrinking out 取刀



BT HEAT SHRINK ARBOR / ISK
BT 燒結式刀柄



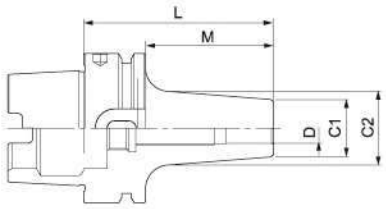


Dynamic Balance (rpm)	BT30	BT40	BT50
With Balancing	30000	30000	10000

Model No.	C1 (mm)	ØD (mm)	C2 (mm)	L (mm)	M (mm)	Weight (kgs)
BT40-ISK04-90S	10	4	-	90	63	1.0
BT40-ISK06-90S	21	6	27	90	63	1.1
BT40-ISK06-130S	21	6	27	130	103	1.5
BT40-ISK06-160S	21	6	27	160	133	1.5
BT40-ISK06-200S	21	6	27	200	173	2.0
BT40-ISK08-90S	21	8	27	90	63	1.15
BT40-ISK08-130S	21	8	27	130	103	1.5
BT40-ISK08-160S	21	8	27	160	133	1.6
BT40-ISK08-200S	21	8	27	200	173	2.2
BT40-ISK10-90S	24	10	32	90	63	1.2
BT40-ISK10-130S	24	10	32	130	103	1.6
BT40-ISK10-160S	24	10	32	160	133	1.6
BT40-ISK10-200S	24	10	32	200	173	2.3
BT40-ISK10-90H	27	10	34	90	63	1.2
BT40-ISK12-90S	24	12	32	90	63	1.2
BT40-ISK12-130S	24	12	32	130	103	1.7
BT40-ISK12-160S	24	12	32	160	133	1.6
BT40-ISK12-200S	24	12	32	200	173	2.3
BT40-ISK12-90H	27	12	34	90	63	1.25
BT40-ISK14-90S	27	14	34	90	63	1.25
BT40-ISK14-130S	27	14	34	130	103	1.7
BT40-ISK14-160S	27	14	34	160	133	1.85
BT40-ISK14-200S	27	14	34	200	173	2.4
BT40-ISK14-90H	33	14	42	90	63	1.3
BT40-ISK16-90S	27	16	34	90	63	1.25
BT40-ISK16-130S	27	16	34	130	103	1.8
BT40-ISK16-160S	27	16	34	160	133	1.8
BT40-ISK16-200S	27	16	34	200	173	2.4
BT40-ISK16-90H	33	16	42	90	63	1.4
BT40-ISK18-90S	33	18	42	90	63	1.3
BT40-ISK18-130S	33	18	42	130	103	1.8
BT40-ISK18-160S	33	18	42	160	133	2.05
BT40-ISK18-200S	33	18	42	200	173	2.5
BT40-ISK18-90H	44	18	53	90	63	1.4
BT40-ISK20-90S	33	20	42	90	63	1.5
BT40-ISK20-130S	33	20	42	130	103	1.9
BT40-ISK20-160S	33	20	42	160	133	2.05
BT40-ISK20-200S	33	20	42	200	173	2.6
BT40-ISK20-90H	44	20	53	90	63	1.6
BT40-ISK25-100S	44	25	53	100	73	1.8
BT40-ISK25-130S	44	25	53	130	103	2.0
BT40-ISK25-160S	44	25	53	160	133	2.85
BT40-ISK25-200S	44	25	53	200	173	3.0
BT40-ISK32-100S	44	32	53	100	73	2.0
BT40-ISK32-130S	44	32	53	130	103	2.2
BT40-ISK32-160S	44	32	53	160	133	2.2
BT40-ISK32-200S	44	32	53	200	173	3.5

Model No.	C1 (mm)	ØD (mm)	C2 (mm)	L (mm)	M (mm)	Weight (kgs)
BT50-ISK06-100S	21	6	27	100	62	2.5
BT50-ISK06-130S	21	6	27	130	92	2.8
BT50-ISK06-160S	21	6	27	160	122	3.2
BT50-ISK06-200S	21	6	27	200	162	3.7
BT50-ISK08-100S	21	8	27	100	62	2.5
BT50-ISK08-130S	21	8	27	130	92	2.8
BT50-ISK08-160S	21	8	27	160	122	3.2
BT50-ISK08-200S	21	8	27	200	162	3.7
BT50-ISK10-100S	24	10	32	100	62	2.7
BT50-ISK10-130S	24	10	32	130	92	2.9
BT50-ISK10-160S	24	10	32	160	122	3.3
BT50-ISK10-200S	24	10	32	200	162	3.7
BT50-ISK10-100H	27	10	34	100	62	2.7
BT50-ISK12-100S	24	12	32	100	62	2.7
BT50-ISK12-130S	24	12	32	130	92	3.0
BT50-ISK12-160S	24	12	32	160	122	3.4
BT50-ISK12-200S	24	12	32	200	162	3.7
BT50-ISK12-100H	27	12	34	100	62	2.7
BT50-ISK14-100S	27	14	34	100	62	2.9
BT50-ISK14-130S	27	14	34	130	92	3.1
BT50-ISK14-160S	27	14	34	160	122	3.4
BT50-ISK14-200S	27	14	34	200	162	3.7
BT50-ISK14-100H	33	14	42	100	62	2.9
BT50-ISK16-100S	27	16	34	100	62	2.9
BT50-ISK16-130S	27	16	34	130	92	3.1
BT50-ISK16-160S	27	16	34	160	122	3.5
BT50-ISK16-200S	27	16	34	200	162	2.9
BT50-ISK16-100H	33	16	42	100	162	3.7
BT50-ISK18-100S	33	18	42	100	62	3.0
BT50-ISK18-130S	33	18	42	130	92	3.2
BT50-ISK18-160S	33	18	42	160	122	3.6
BT50-ISK18-200S	33	18	42	200	162	3.7
BT50-ISK18-100H	44	18	53	100	62	3.0
BT50-ISK20-100S	33	20	42	100	62	3.1
BT50-ISK20-130S	33	20	42	130	92	3.3
BT50-ISK20-160S	33	20	42	160	122	3.6
BT50-ISK20-200S	33	20	42	200	162	3.7
BT50-ISK20-100H	44	20	53	100	62	3.1
BT50-ISK25-100S	44	25	53	100	62	3.5
BT50-ISK25-130S	44	25	53	130	92	3.7
BT50-ISK25-160S	44	25	53	160	122	4.0
BT50-ISK25-200S	44	25	53	200	162	3.7
BT50-ISK32-100S	44	32	53	100	62	3.9
BT50-ISK32-130S	44	32	53	130	92	4.1
BT50-ISK32-160S	44	32	53	160	122	4.4
BT50-ISK32-200S	44	32	53	200	162	3.7
BT50-ISK32-100H	58	32	67	110	72	3.5
BT50-ISK40-120H	78	40	90	120	82	3.9
BT50-ISK50-120H	78	50	90	120	82	3.4

HSK HEAT SHRINK ARBOR / ISK
HSK 燒結式刀柄



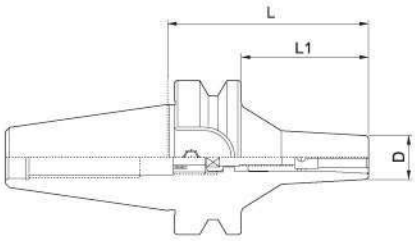


Model No.	ØD (mm)	C1 (mm)	C2 (mm)	L (mm)	Weight (kgs)
HSK40E-ISK04-70	4	10	18.5	70	0.25
HSK40E-ISK06-80	6	21	27	80	0.32
HSK40E-ISK08-80	8	21	27	80	0.42
HSK40E-ISK10-80	10	27	34	80	0.47
HSK50E-ISK04-60S	4	10	-	60	0.7
HSK50E-ISK06-80S	6	21	27	80	0.7
HSK50E-ISK06-130S	6	21	27	130	0.8
HSK50E-ISK06-160S	6	21	27	160	1.0
HSK50E-ISK08-80S	8	21	27	80	0.75
HSK50E-ISK08-130S	8	21	27	130	0.8
HSK50E-ISK08-160S	8	21	27	160	1.0
HSK50E-ISK10-85S	10	24	32	85	0.8
HSK50E-ISK10-130S	10	24	32	130	0.9
HSK50E-ISK10-160S	10	24	32	160	1.1
HSK50E-ISK12-90S	12	24	32	90	0.8
HSK50E-ISK12-130S	12	24	32	130	0.9
HSK50E-ISK12-160S	12	24	32	160	1.1
HSK50E-ISK16-95S	16	27	34	65	0.9
HSK50E-ISK16-130S	16	27	34	130	1.1
HSK50E-ISK16-160S	16	27	34	160	1.2

Model No.	ØD (mm)	C1 (mm)	C2 (mm)	L (mm)	Weight (kgs)
HSK63A-ISK04-80S	4	10	-	80	1.0
HSK63A-ISK06-80S	6	21	27	80	1.0
HSK63A-ISK06-130S	6	21	27	130	1.05
HSK63A-ISK06-160S	6	21	27	160	1.3
HSK63A-ISK08-80S	8	21	27	80	1.0
HSK63A-ISK08-130S	8	21	27	130	1.05
HSK63A-ISK08-160S	8	21	27	160	1.4
HSK63A-ISK10-85S	10	24	32	85	1.0
HSK63A-ISK10-130S	10	24	32	130	1.2
HSK63A-ISK10-160S	10	24	32	160	1.5
HSK63A-ISK12-90S	12	24	32	90	1.0
HSK63A-ISK12-130S	12	24	32	130	1.15
HSK63A-ISK12-160S	12	24	32	160	1.5
HSK63A-ISK16-95S	16	27	34	95	1.0
HSK63A-ISK16-130S	16	27	34	130	1.2
HSK63A-ISK16-160S	16	27	34	160	1.7
HSK63A-ISK20-100S	20	33	42	100	1.15
HSK63A-ISK20-130S	20	33	42	130	1.45
HSK63A-ISK20-160S	20	33	42	160	1.8
HSK63A-ISK25-115S	25	44	53	115	1.3
HSK63A-ISK25-130S	25	44	53	130	2.0
HSK63A-ISK25-160S	25	44	53	160	1.9
HSK63A-ISK32-120S	32	44	53	120	1.6
HSK63A-ISK32-160S	32	44	53	160	1.9

Model No.	ØD (mm)	C1 (mm)	C2 (mm)	L (mm)	Weight (kgs)
HSK100A-ISK04-180	4	9	22	180	2.3
HSK100A-ISK06-180	6	13	26	180	2.6
HSK100A-ISK08-180	8	15	28	180	2.6
HSK100A-ISK10-160	10	17	28	160	2.68
HSK100A-ISK10-180	10	17	30	180	2.8
HSK100A-ISK12-160	12	19	30	160	2.66
HSK100A-ISK12-180	12	19	32	180	2.78
HSK100A-ISK16-120	16	23	30	120	2.5
HSK100A-ISK16-180	16	23	36	180	2.8
HSK100A-ISK20-155	20	33	44.5	155	3.0
HSK100A-ISK20-180	20	33	47.5	180	3.4

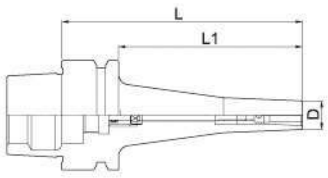
BT HIGH SPEED COLLET CHUCK - BACK PULL
BT 後拉式高速筒夾刀柄





Model No.	D (mm)	L (mm)	L1 (mm)	Wrench
BT30-IDS06-60	13	60	38	T型 M04
BT30-IDS06-90	13	90	68	
BT30-IDS08-60	16	55	33	
BT30-IDS08-90	16	75	53	
BT30-IDS12-80	23	80	58	T型 M08
BT30-IDS12-110	23	110	88	
BT40-IDS06-60	13	60	33	T型 M04
BT40-IDS06-100	13	100	73	
BT40-IDS06-150	13	150	123	
BT40-IDS08-65	16	65	38	
BT40-IDS08-90	16	90	58	
BT40-IDS08-105	16	105	78	
BT40-IDS12-90	23	90	63	T型 M08
BT40-IDS12-135	23	135	108	
BT50-IDS08-95	16	95	57	T型 M04
BT50-IDS08-110	16	110	72	
BT50-IDS12-100	23	100	62	T型 M08
BT50-IDS12-150	23	150	112	

HSK HIGH SPEED COLLET CHUCK - BACK PULL
HSK 後拉式高速筒夾刀柄





Model No.	D (mm)	L (mm)	L1 (mm)
HSK40E-IDS06-75	13	75	55
HSK50E-IDS06-80	13	80	54
HSK63E-IDS06-110	13	110	84
HSK63A-IDS06-80	13	80	54
HSK63A-IDS06-110	13	110	84
HSK63A-IDS06-120	13	120	94

Model No.	D (mm)	L (mm)	L1 (mm)
HSK63A-IDS08-90	16	90	64
HSK63A-IDS08-120	16	120	94
HSK63A-IDS12-100	23	100	74
HSK100-IDS08-110	16	110	81
HSK100-IDS08-170	16	170	140

IDS COLLET
後拉式筒夾



Model No.	d (mm)	Extemal Diameter (mm)
IDS06-AA	3~6	9.5
IDS08-AA	3~8	12
IDS12-AA	3~12	22

BT SIDE LOCK MILLING ARBOR / SLA
BT 側固式立銑刀柄



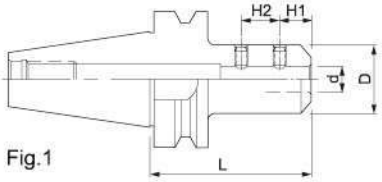


Fig.1

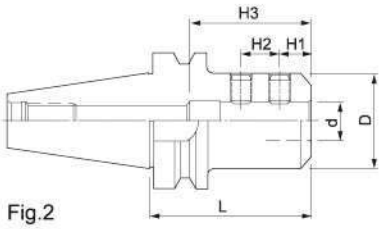


Fig.2

Model No.	Fig	Ød (mm)	ØD (mm)	ØD1 (mm)	L (mm)	H1 (mm)	H2 (mm)	H3 (mm)	G	Weight (kgs)
BT30-SLA6-60	1	6	25	-	60	9	10	-	M6	0.60
BT30-SLA8-60	1	8	30	-	60	12	12	-	M8	0.60
BT30-SLA10-60	3	10	34	-	60	15	12	40	M8	0.70
BT30-SLA12-60	3	12	38	-	60	18	16	46	M10	0.70
BT30-SLA16-70	3	16	45	-	70	20	18	50	M10	0.80
BT30-SLA20-75	3	20	45	-	75	25	20	60	M12	0.80
BT30-SLA25-75	3	25	48	-	75	24	25	66	M12	1.20
BT40-SLA6-75	1	6	25	-	75	9	10	-	M6	1.10
BT40-SLA6-105	2	6	20	25	105	9	10	-	M6	1.26
BT40-SLA6-120	2	6	20	25	120	9	10	-	M6	1.32
BT40-SLA6-150	2	6	20	30	150	9	10	-	M6	1.45
BT40-SLA8-75	1	8	30	-	75	12	12	-	M8	1.20
BT40-SLA8-105	2	8	25	30	105	12	12	-	M8	1.30
BT40-SLA8-120	2	8	25	30	120	12	12	-	M8	1.39
BT40-SLA8-150	2	8	25	32	150	12	12	-	M8	1.42
BT40-SLA10-75	1	10	34	-	75	15	12	-	M8	1.30
BT40-SLA10-105	2	10	28	32	105	12	12	-	M8	1.48
BT40-SLA10-120	2	10	28	32	120	15	12	-	M8	1.76
BT40-SLA10-150	2	10	28	35	150	15	12	-	M8	1.82
BT40-SLA12-75	1	12	38	-	75	18	16	-	M10	1.40
BT40-SLA12-105	2	12	35	38	105	18	16	-	M10	1.63
BT40-SLA12-120	2	12	35	40	120	18	16	-	M10	1.76
BT40-SLA12-150	2	12	35	40	150	18	16	-	M10	1.85
BT40-SLA16-75	3	16	45	-	75	20	18	50	M10	1.50
BT40-SLA16-120	4	16	40	45	120	20	18	50	M10	1.89
BT40-SLA16-150	4	16	40	45	150	20	18	50	M10	1.93
BT40-SLA20-90	2	20	50	-	90	25	20	60	M12	1.80
BT40-SLA20-120	4	20	47	52	120	25	20	60	M12	2.30
BT40-SLA20-150	4	20	47	52	150	25	20	60	M12	2.41
BT40-SLA25-90	3	25	57	-	90	24	25	66	M16	2.10
BT40-SLA25-120	4	25	55	60	120	24	25	66	M16	2.50
BT40-SLA25-150	4	25	55	60	150	24	25	66	M16	2.99
BT40-SLA32-90	3	32	60	-	90	24	28	70	M16	2.00
BT40-SLA32-120	3	32	60	-	120	24	28	70	M16	2.50
BT40-SLA32-150	3	32	60	-	150	24	28	70	M16	3.00
BT40-SLA40-105	3	40	72	-	105	24	28	78	M16	2.90
BT40-SLA42-105	3	42	72	-	105	24	28	78	M16	2.95

※G為側固螺絲規格。 ※G: Specification for the side set screw.

BT SIDE LOCK MILLING ARBOR / SLA
BT 側固式立銑刀柄



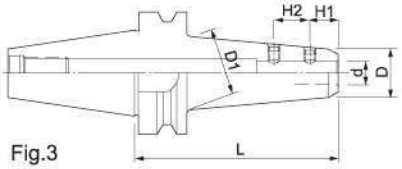


Fig.3

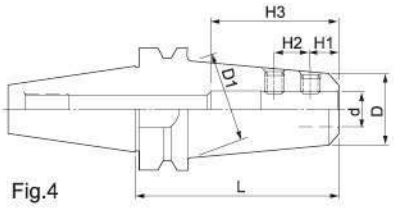


Fig.4

Model No.	Fig	Ød (mm)	ØD (mm)	ØD1 (mm)	L (mm)	H1 (mm)	H2 (mm)	H3 (mm)	G	Weight (kgs)
BT50-SLA8-105	1	8	28	-	105	12	12	-	M8	3.7
BT50-SLA8-150	2	8	25	30	150	12	12	-	M8	4.15
BT50-SLA8-200	2	8	25	35	200	12	12	-	M8	4.65
BT50-SLA10-105	1	10	34	-	105	15	12	-	M8	3.9
BT50-SLA10-150	2	10	30	35	150	15	12	-	M8	4.3
BT50-SLA10-200	2	10	30	40	200	15	12	-	M8	5.1
BT50-SLA12-105	1	12	40	-	105	18	16	-	M10	3.9
BT50-SLA12-150	2	12	35	40	150	18	16	-	M10	4.6
BT50-SLA12-200	2	12	35	45	200	18	16	-	M10	5.3
BT50-SLA16-105	1	16	45	-	105	20	18	-	M10	4.1
BT50-SLA16-150	2	16	40	45	150	20	18	-	M10	5.0
BT50-SLA16-200	2	16	40	50	200	20	18	-	M10	5.6
BT50-SLA16-250	2	16	40	50	250	20	18	-	M10	6.6
BT50-SLA20-105	2	20	50	-	105	25	20	60	M12	4.8
BT50-SLA20-150	3	20	45	50	150	25	20	80	M12	5.2
BT50-SLA20-200	3	20	45	55	200	25	20	80	M12	6.1
BT50-SLA20-250	3	20	45	55	250	25	20	80	M12	7.1
BT50-SLA20-300	3	20	45	55	300	25	20	80	M12	7.75
BT50-SLA25-105	2	25	60	-	105	24	24	66	M16	5.0
BT50-SLA25-150	3	25	55	60	150	24	24	80	M16	6.1
BT50-SLA25-200	3	25	55	65	200	24	24	80	M16	7.3
BT50-SLA25-250	3	25	55	65	250	24	24	80	M16	9.0
BT50-SLA25-300	3	25	55	65	300	24	24	80	M16	9.5
BT50-SLA32-105	2	32	62	-	105	24	28	75	M16	5.1
BT50-SLA32-150	2	32	62	-	150	24	28	100	M16	6.5
BT50-SLA32-200	3	32	60	65	200	24	28	100	M16	8.1
BT50-SLA32-250	3	32	60	65	250	24	28	100	M16	9.8
BT50-SLA32-300	3	32	60	65	300	24	28	100	M16	10.3
BT50-SLA40-120	2	40	80	-	120	30	32	90	M20	6.5
BT50-SLA40-150	2	40	80	-	150	30	32	90	M20	7.0
BT50-SLA40-200	2	40	80	-	200	30	32	90	M20	9.0
BT50-SLA42-120	2	42	85	-	120	30	32	80	M20	6.5
BT50-SLA42-150	2	42	85	-	150	30	32	100	M20	7.0
BT50-SLA42-200	2	42	85	-	200	30	32	100	M20	8.9
BT50-SLA50.8-120	2	50.8	95	-	120	30	32	90	M20	7.2
BT50-SLA50.8-160	2	50.8	95	-	160	30	32	90	M20	8.7

※G為側固螺絲規格。 ※G: Specification for the side set screw.

SK SIDE LOCK MILLING ARBOR / SLA
SK 側固式立銑刀柄

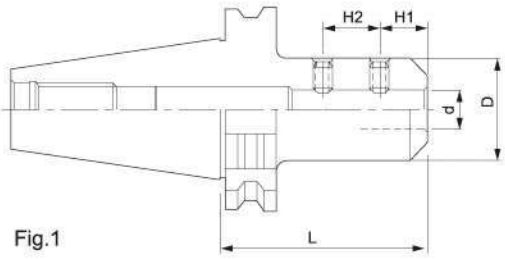


Fig.1

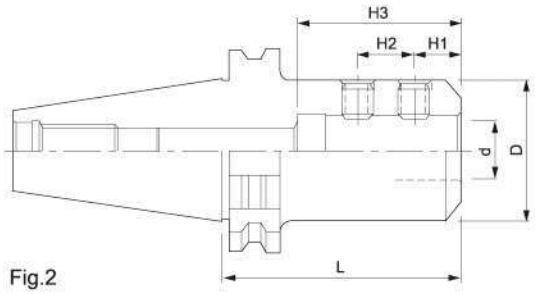


Fig.2



Model No.	Fig	Ød (mm)	ØD (mm)	L (mm)	H1 (mm)	H2 (mm)	H3 (mm)	G	Weight (kgs)
SK40-SLA6-60	1	6	25	60	9	10	-	M6	0.9
SK40-SLA8-60	1	8	30	60	12	12	-	M8	1.0
SK40-SLA10-60	1	10	34	60	15	12	-	M8	1.1
SK40-SLA12-63	1	12	38	63	18	16	-	M10	1.15
SK40-SLA16-63	2	16	45	63	20	18	50	M10	1.35
SK40-SLA20-63	2	20	50	63	25	20	60	M12	1.4
SK40-SLA25-100	2	25	57	100	24	25	66	M16	2.2
SK40-SLA32-100	2	32	60	100	24	28	70	M16	2.6
SK50-SLA10-75	1	10	34	75	15	12	-	M8	3.3
SK50-SLA12-75	1	12	40	75	18	16	-	M10	3.5
SK50-SLA16-75	1	16	45	75	20	18	-	M10	3.5
SK50-SLA20-75	2	20	50	75	25	20	60	M12	3.6
SK50-SLA25-80	2	25	60	80	24	24	66	M16	4.3
SK50-SLA32-100	2	32	62	100	24	28	75	M16	5.1
SK50-SLA40-100	2	40	80	100	30	32	90	M20	5.8

NT SIDE LOCK MILLING ARBOR / SLA
NT 側固式立銑刀柄

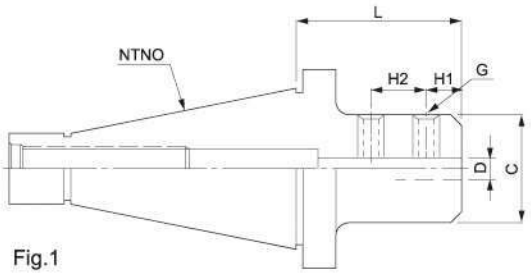


Fig.1

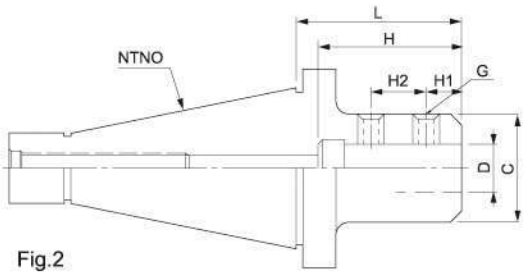


Fig.2



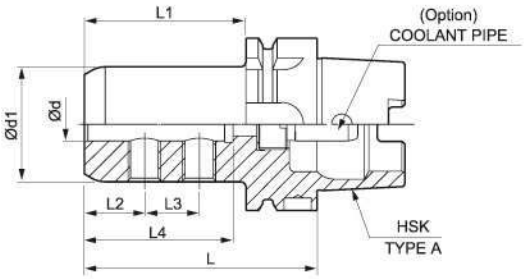
Model No.	Fig	ØD (mm)	ØC (mm)	H (mm)	L (mm)	H1 (mm)	H2 (mm)	G	Weight (kgs)
NT30-SLA6-55	1	6	25	25	55	9	10	M6	0.5
NT30-SLA8-60	1	8	30	30	60	12	12	M8	0.5
NT30-SLA10-60	1	10	35	35	60	15	12	M8	0.5
NT30-SLA12-55	2	12	40	45	55	20	16	M10	0.6
NT30-SLA16-60	2	16	45	50	60	22	8	M10	0.7
NT30-SLA20-65	2	20	50	60	65	25	20	M12	0.8
NT30-SLA25-75	2	25	50	65	75	25	22	M12	1.0
NT40-SLA6-55	1	6	25	25	55	9	10	M6	1.2
NT40-SLA8-60	1	8	30	30	60	12	12	M8	1.2
NT40-SLA10-60	1	10	35	35	60	15	12	M8	1.2
NT40-SLA12-75	1	12	40	45	75	20	16	M10	1.2
NT40-SLA16-75	2	16	45	50	75	22	18	M10	1.3
NT40-SLA20-75	2	20	50	60	75	25	20	M12	1.3
NT40-SLA25-75	2	25	63	65	75	24	25	M16	1.5
NT40-SLA32-90	2	32	63	70	90	-	28	M16	1.7
NT40-SLA42-105	2	42	80	80	105	30	32	M16	2.2
NT50-SLA8-75	1	8	30	30	75	12	12	M8	3.0
NT50-SLA10-75	1	10	35	35	75	15	12	M8	3.0
NT50-SLA12-80	1	12	40	40	80	20	16	M10	3.0
NT50-SLA16-80	1	16	45	50	80	22	18	M10	3.1
NT50-SLA20-80	2	20	50	60	80	22	20	M12	3.2
NT50-SLA25-80	2	25	60	65	80	24	25	M16	3.3
NT50-SLA32-90	2	32	60	75	90	24	28	M20	3.5
NT50-SLA42-105	2	42	80	80	105	30	32	M20	4.0
NT50-SLA50.8-105	2	50.8	95	90	105	30	35	M20	5.0

HSK-A SLE SIDE LOCK HOLDER
HSK-A SLE 側固刀把

APPLICATION



銑削
ENDMILLING





Model No.		Range Ød	Ød1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	Screw
HSK50A	SLE06-065	6	25	65	39	18	-	36	SLA-M6
HSK50A	SLE08-065	8	28	65	39	18	-	40	SLA-M8
HSK50A	SLE10-080	10	35	80	54	20	-	50	SLA-M10
HSK50A	SLE12-080	12	42	80	54	22.5	-	55	SLA-M12
HSK50A	SLE16-080	16	48	80	54	24	-	55	SLA-M12
HSK50A									
	SLE20-080	20	52	80	54	25	-	55	SLA-M16
HSK63A	SLE06-065	6	25	65	39	18	-	36	SLA-M6
HSK63A	SLE08-065	8	28	65	39	18	-	40	SLA-M8
HSK63A	SLE10-080	10	35	80	54	20	-	50	SLA-M10
HSK63A	SLE12-080	12	42	80	54	22.5	-	55	SLA-M12
HSK63A	SLE16-080	16	48	80	54	24	-	55	SLA-M12
HSK63A	SLE20-080	20	52	80	54	25	-	55	SLA-M12
HSK100A	SLE16-100	16	48	100	71	24	-	60	SLA-M12
HSK100A	SLE20-100	20	52	100	71	25	-	60	SLA-M16
HSK100A	SLE25-100	25	57	100	71	24	25	65	SLA-M16
HSK100A	SLE32-100	32	63	100	71	24	28	70	SLA-M16
HSK100A	SLE40-120	40	82	120	91	30	32	80	SLA-M20

BT MORSE TAPER ARBOR / MTA
BT 斜柄鑽頭套筒刀柄

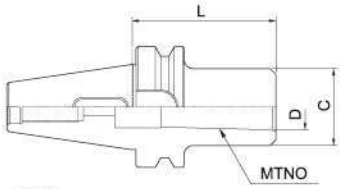


Fig.1

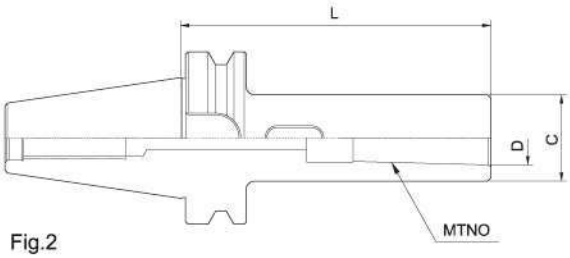


Fig.2



Model No.	Fig	C/Capacity	D (mm)	L (mm)	C (mm)	Weight (kgs)
BT30-MTA1-48	1	2.0~14.0	12.065	48	25	0.55
BT30-MTA1-105	2	2.0~14.0	12.065	105	25	1.25
BT30-MTA2-60	1	14.1~23.0	17.780	60	32	0.9
BT30-MTA2-120	2	14.1~23.0	17.780	120	32	1.45
BT30-MTA3-75	1	23.1~32.0	23.825	75	40	0.9
BT30-MTA3-135	2	23.1~32.0	23.825	135	40	1.55
BT40-MTA1-45	1	2.0~14.0	12.065	45	25	1.2
BT40-MTA1-120	2	2.0~14.0	12.065	120	25	2.2
BT40-MTA2-45	1	14.1~23.0	17.780	45	32	1.6
BT40-MTA2-120	2	14.1~23.0	17.780	120	32	2.2
BT40-MTA3-75	1	23.1~32.0	23.825	75	40	1.8
BT40-MTA3-135	2	23.1~32.0	23.825	135	40	2.2
BT40-MTA4-90	1	32.1~50.0	31.267	90	50	2.4
BT40-MTA4-160	2	32.1~50.0	31.267	160	50	2.8
BT50-MTA1-45	1	2.0~14.0	12.065	45	25	4.1
BT50-MTA1-120	2	2.0~14.0	12.065	120	25	4.3
BT50-MTA1-180	2	2.0~14.0	12.065	180	25	4.5
BT50-MTA2-45	1	14.1~23.0	17.780	45	32	4.3
BT50-MTA2-135	2	14.1~23.0	17.780	135	32	4.5
BT50-MTA2-180	2	14.1~23.0	17.780	180	32	4.8
BT50-MTA3-60	1	23.1~32.0	23.825	60	40	4.0
BT50-MTA3-150	2	23.1~32.0	23.825	150	40	4.9
BT50-MTA3-180	2	23.1~32.0	23.825	180	40	5.2
BT50-MTA4-75	1	32.1~50.0	31.267	75	50	4.8
BT50-MTA4-180	2	32.1~50.0	31.267	180	50	5.5
BT50-MTA5-105	1	50.0~70.0	44.399	105	65	5.2
BT50-MTA5-210	2	50.0~70.0	44.399	210	65	6.5

BT MORSE TAPER ARBOR / MTB
BT 斜柄鑽頭套筒刀柄

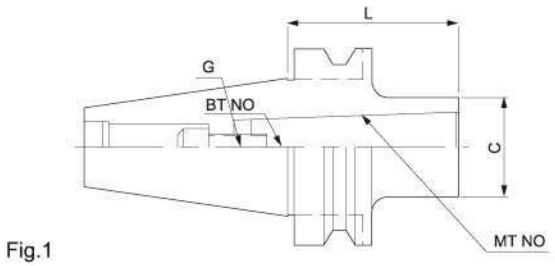


Fig.1

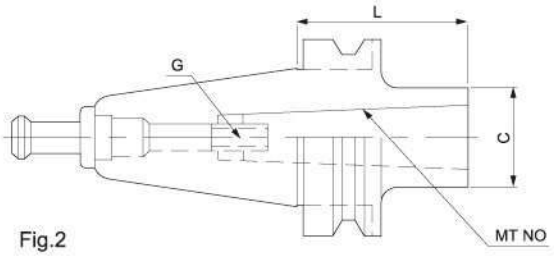


Fig.2



Model No.	Fig	L (mm)	C (mm)	G	MT No.	Weight (kgs)
BT30-MTB1-45	1	45	25	M6	1	0.6
BT30-MTB2-60	1	60	32	M10	2	0.9
BT40-MTB1-45	1	45	25	M6	1	1.2
BT40-MTB2-45	1	45	32	M10	2	1.3
BT40-MTB3-75	1	75	40	M12	3	1.9
BT40-MTB4-90	2	90	50	M16	4	2.5
BT50-MTB1-45	1	45	25	M6	1	4.1
BT50-MTB2-45	1	45	32	M10	2	4.3
BT50-MTB3-60	1	60	40	M12	3	4.3
BT50-MTB4-75	1	75	50	M16	4	4.6
BT50-MTB5-105	2	105	70	M20	5	6.5

※以上刀桿皆附螺絲。 ※The screw is included in Arbor.
※Fig.2的長拉頭另外選購。 ※The extension pull stud on Fig.2 is not included.

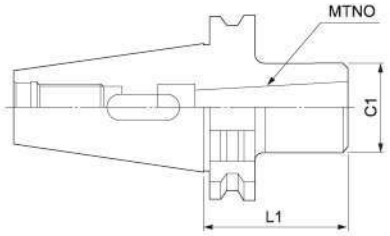
EXTENSION PULL STUD
長拉頭





Model No.	MT No.	G (mm)	Weight (kgs)
BT40-45-MTB4*M16	MTB4	M16 x 2.0	0.2
BT50-45-MTB5*M20	MTB5	M20 x 2.5	0.5

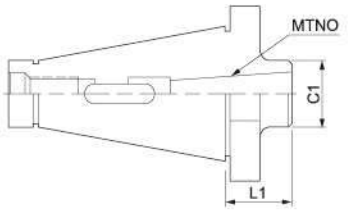
SK MORSE TAPER ARBOR / MTA
SK 斜柄鑽頭套筒刀柄

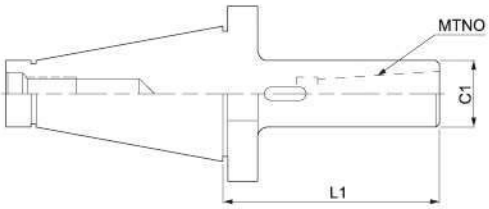




Model No.	MT No.	C1 (mm)	L1 (mm)	Weight (kgs)
SK40-MTA1-45	MT1	25	45	1.20
SK40-MTA2-50	MT2	32	50	1.10
SK40-MTA3-70	MT3	40	70	1.20
SK40-MTA4-95	MT4	50	95	1.35
SK50-MTA2-60	MT2	32	60	3.10
SK50-MTA3-65	MT3	40	65	3.30
SK50-MTA4-95	MT4	50	95	3.45
SK50-MTA5-105	MT5	65	105	3.70

NT MORSE TAPER ARBOR / MTA
NT 斜柄鑽頭套筒刀柄

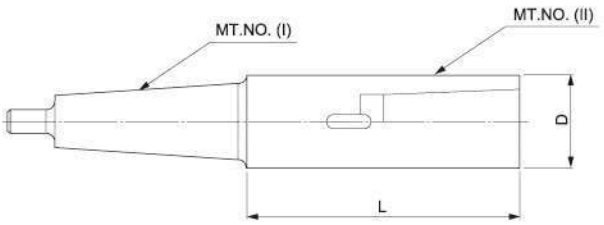






Model No.	MT No.	C1 (mm)	L1 (mm)	Weight (kgs)
NT30-MTA1	MTA1	25	25	0.50
NT30-MTA2	MTA2	32	50	0.50
NT30-MTA3	MTA3	35	65	0.60
NT40-MTA1	MTA1	25	30	0.60
NT40-MTA2	MTA2	32	40	0.80
NT40-MTA3	MTA3	40	45	1.20
NT40-MTA4	MTA4	50	90	1.30
NT50-MTA2	MTA2	32	30	2.80
NT50-MTA3	MTA3	40	30	2.80
NT50-MTA3-160	MTA3	40	160	4.00
NT50-MTA4	MTA4	50	60	3.00
NT50-MTA4-180	MTA4	50	180	4.20
NT50-MTA5	MTA5	65	105	3.65
NT50-MTA5-200	MTA5	65	200	6.00

MORSE TAPER EXTENSION
延長鑽頭套筒





Model No.	MT. No. (I)	MT. No. (II)	D (mm)	L (mm)	Weight (kgs)
MT3 x MT2-150	MT3	MT2	25	150	0.95
MT3 x MT2-200	MT3	MT2	25	200	1.2
MT3 x MT2-250	MT3	MT2	25	250	1.4
MT4 x MT3-150	MT4	MT3	32	150	1.29
MT4 x MT3-200	MT4	MT3	32	200	1.6
MT4 x MT3-250	MT4	MT3	32	250	1.92
MT4 x MT3-300	MT4	MT3	32	300	2.24
MT4 x MT4-150	MT4	MT4	40	150	1.44
MT4 x MT4-200	MT4	MT4	40	200	1.95
MT4 x MT4-250	MT4	MT4	40	250	2.53
MT4 x MT4-300	MT4	MT4	40	300	3.04
MT5 x MT4-150	MT5	MT4	45	150	2.75
MT5 x MT4-200	MT5	MT4	45	200	3.48
MT5 x MT4-250	MT5	MT4	45	250	4.1
MT5 x MT4-300	MT5	MT4	45	300	4.72

DRILL CHUCK SLEEVE
鑽頭套筒



Feature

- Standard type drill collet is made of "Carbon Steel" under heat treatment HRC45°~50°.
- Body is under interior and exterior precise grinding process.
- Inside and outside Morse Taper complies with DIN2185.

- 標準型鑽頭套筒使用"中碳鋼"材質，且經過熱處理，其硬度為HRC45°~50°。
- 本體均經過內、外精密研磨處理。
- 內外斜柄採用DIN2185規格。

Model No.	Morse Taper	Length (mm)	Weight (kgs)
TC-201	1 x 2	92	0.09
TC-202	1 x 3	99	0.22
TC-203	2 x 3	112	0.19
TC-204	1 x 4	124	0.53
TC-205	2 x 4	124	0.45
TC-206	3 x 4	140	0.4

Model No.	Morse Taper	Length (mm)	Weight (kgs)
TC-207	1 x 5	156	1.4
TC-208	2 x 5	156	1.33
TC-209	3 x 5	156	1.18
TC-210	4 x 5	171	0.98
TC-211	4 x 6	218	3.6
TC-212	5 x 6	218	2.8

HYDRAULIC CHUCK
油壓式刀把





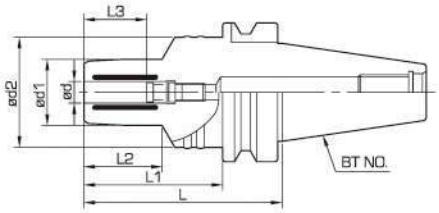


Fig. 1

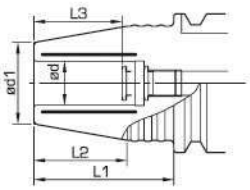


Fig. 2

Model No.	Fig	Ød (mm)	Ød1 (mm)	Ød2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	Screw	Collet
BT30-HY06-075	1	6	26	45.5	75	53	24.5	31~36	HY06-M5	-
BT30-HY08-075	1	8	28	45.5	75	53	25.5	31~36	HY08-M6	-
BT30-HY10-075	1	10	30	45.5	75	53	35.5	35~40	HY08-M6	-
BT30-HY12-090	1	12	32	45.5	90	68	40	39~45	HY08-M6	HY12-C
BT30-HY16-090	1	16	38	45.5	90	68	40	42~48	HY14-M8	-
BT30-HY20-090	2	20	37	51	90	68	42	44~50	HY18-M12	HY20-C
BT40-HY03-090	1	3	32	50	90	63	40	20~25	HY03-M5	-
BT40-HY04-090	1	4	32	50	90	63	40	20~25	HY03-M5	-
BT40-HY06-090	1	6	26	50	90	63	24.5	31~36	HY06-M5	-
BT40-HY08-090	1	8	28	50	90	63	25.5	31~36	HY08-M6	-
BT40-HY10-090	1	10	30	50	90	63	35.5	35~40	HY08-M6	-
BT40-HY12-090	1	12	32	50	90	63	40	39~45	HY08-M6	HY12-C
BT40-HY14-090	1	14	34	50	90	63	40	39~45	HY14-M8	-
BT40-HY16-090	1	16	38	50	90	63	40	42~48	HY14-M8	-
BT40-HY18-090	1	18	40	50	90	63	40	42~48	HY18-M12	-
BT40-HY20-090	2	20	37	53	90	63	42	44~50	HY18-M12	HY20-C
BT40-HY25-100	2	25	43	57	100	73	37	50~56	HY25-M16	-
BT40-HY32-105	2	32	50.5	62.5	105	78	31.5	53~60	HY25-M16	HY32-C
BT50-HY06-100	1	6	26	49	100	62	24.5	31~36	HY06-M5	-
BT50-HY08-100	1	8	28	49	100	62	25.5	31~36	HY06-M5	-
BT50-HY10-100	1	10	30	50	100	62	35.5	35~40	HY08-M6	-
BT50-HY12-100	1	12	32	50	100	62	40	39`45	HY08-M6	HY12-C
BT50-HY14-100	1	14	34	50	100	62	40	39~45	HY14-M8	-
BT50-HY16-100	1	16	38	50	100	62	40	42~48	HY14-M8	-
BT50-HY18-105	1	18	40	50	105	67	40	42~48	HY18-M12	-
BT50-HY20-105	2	20	37	53	105	67	42	44~50	HY18-M12	HY20-C
BT50-HY25-115	2	25	43	57	115	77	37	50~56	HY25-M16	-
BT50-HY32-115	2	32	50.5	62.5	115	77	31.5	53~60	HY25-M16	HY32-C

備註 Remark: 1. 直接夾持精度 Direct Clamping. 2.刀具柄徑公差 h6(h6 Tooling Diameter Tolerance)

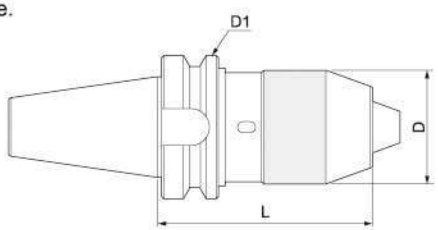
BT CNC DRILL CHUCKS / CHU
BT 直結式鑽夾頭

Application

- The product can be adapted for the general lathe or the drilling processing whose machines center can supply with NT spindle.
- 適用於傳統銑床或其他提供NT主軸界面之工作母機作鑽孔加工。

Feature

- 3 times better clamping capacity comparing to keyless drill chuck.
- The drill bit won't be loosen or falling off.
- Twice precision than the keyless drill chuck.
- The drill chuck is interchangeable.
- 比普通夾頭多3倍的夾持力。
- 鑽頭不會鬆脫或掉落。
- 比普通夾頭多出2倍精準。
- 可替換式的夾頭。



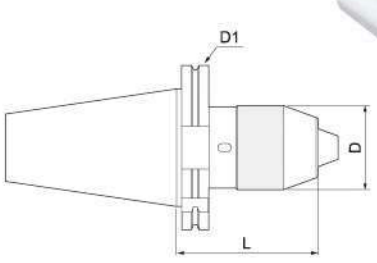


Model No.	L (mm)	ØD (mm)	ØD1 (mm)	Spanner No.	Weight (kgs)
BT30 - CHU 8 - 75	75	37	46	12802	1.0
BT30 - CHU13 - 90	90	50	46	12806	1.5
BT40 - CHU 8 - 85	85	37	63	12802	2.0
BT40 - CHU13 - 95	95	50	63	12806	2.5
BT40 - CHU13 - 130	130	50	63	12806	2.6
BT40 - CHU13 - 150	150	50	63	12806	2.7
BT40 - CHU16 - 120	120	57	63	12808	3.0
BT50 - CHU13 - 110	110	50	100	12806	4.4
BT50 - CHU13 - 150	150	50	100	12806	5.5
BT50 - CHU16 - 110	110	57	100	12808	4.4
BT50 - CHU16 - 130	130	57	100	12808	5.5
BT50 - CHU16 - 145	145	57	100	12808	5.5

SK CNC DRILL CHUCKS / CHU
SK 直結式鑽夾頭

Feature

- 3 times better clamping capacity comparing to keyless drill chuck.
- The drill bit won't be loosen or falling off.
- Twice precision than the keyless drill chuck.
- The drill chuck is interchangeable.
- 比普通夾頭多3倍的夾持力。
- 鑽頭不會鬆脫或掉落。
- 比普通夾頭多出2倍精準。
- 可替換式的夾頭





Model No.	L (mm)	ØD (mm)	ØD1 (mm)	Spanner No.	Weight (kgs)
SK30 x CHU8 - 80	80	37	50	12802	0.90
SK30 x CHU13 - 100	100	50	50	12806	1.60
SK30 x CHU16 - 125	125	57	50	12808	1.78
SK40 x CHU8 - 75	75	37	63.55	12802	1.30
SK40 x CHU13 - 100	100	50	63.55	12806	1.70
SK40 x CHU16 - 115	115	57	63.55	12808	2.00
SK50 x CHU13 - 100	100	50	97.5	12806	4.10
SK50 x CHU16 - 105	105	57	97.5	12808	4.30

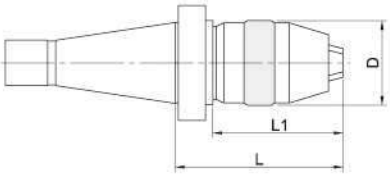
NT (ISO) CNC DRILL CHUCKS
NT (ISO) 直結式鑽夾頭

Feature

- 3 times better clamping capacity comparing to keyless drill chuck.
- The drill bit won't be loosen or falling off.
- Twice precision than the keyless drill chuck.
- The drill chuck is interchangeable.
- 比普通夾頭多3倍的夾持力。
- 鑽頭不會鬆脫或掉落。
- 比普通夾頭多出2倍精準。
- 可替換式的夾頭

Application

- The product can be adapted for the general lathe or the drilling processing whose machines center can supply with NT spindle.
- 適用於傳統銑床或其他提供NT主軸界面之工作母機作鑽孔加工。





Model No.	Capacity (mm)	L (mm)	L1 (mm)	ØD (mm)	Weight (kgs)
NT30 - APU13	1~13	110	86.5	50.5	1.5
NT40 - APU13	1~13	105	83.5	50.5	1.8
NT40 - APU16	3~16	115	93.5	57	2.2
NT50 - APU13	1~13	110	81	50.5	2.5
NT50 - APU16	3~16	120	91	57	2.8

INTEGRATED KEYLESS CHUCK (SPECIAL HEAVY DUTY)
整體式自動夾頭附勾扳手

Feature

- The integrated design is solid and highly precise and accurate.
- Suitable for CNC machines and machining center.
- All parts are ground, heat treated, surface treated and under specific QC condition.
- 整體式設計，構造堅固，減少公差質。
- 適用於CNC鑽床、銑床設備及重負荷使用。
- 所有零件都經處理及精密研磨。



D-TYPE MT-TYPE R8-TYPE

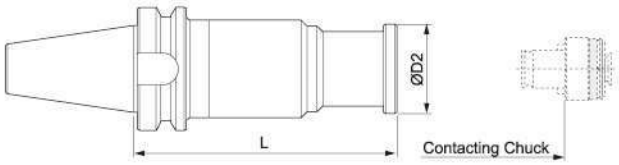
Model No.	Size	Capacity (mm)	Capacity (inch)	Taper Mount No. DIN or Jacobs	Length (mm) Open	Length (mm) Closed	Outer Dia. (mm)	Weight (kgs)
3S-D12	3S	0.3~3	1/64~1/8	D12	89	92	24	0.140
6S-D16	6S	0.3~6	1/64~1/4	D16	104	110	33	0.335
8S-D20	8S	0.3~8	1/64~5/16	D20	126	135	38	0.520
13S-D20	13S	0.3~13	1/64~1/2	D20	145	157	50	1.000
13S-D25	13S	0.3~13	1/64~1/2	D25	160	172	50	0.130
13S-D32	13S	0.3~13	1/64~1/2	D32	168	181	50	1.380
16S-D20	16S	3~16	1/8~5/8	D20	150	162	58	1.280
16S-D25	16S	3~16	1/8~5/8	D25	165	177	58	1.410
16S-D32	16S	3~16	1/8~5/8	D32	165	188	58	1.610
8S-MT2	8S	0.3~8	1/64~5/16	MT2	138	147	38	0.465
13S-MT2	13S	0.3~13	1/64~1/2	MT2	160	172	50	0.940
13S-MT3	13S	0.3~13	1/64~1/2	MT3	180	192	50	1.090
13S-MT4	13S	0.3~13	1/64~1/2	MT4	209	223	50	1.750
16S-MT3	16S	3~16	1/8~5/8	MT3	180	192	58	1.560
16S-MT4	16S	3~16	1/8~5/8	MT4	220	232	58	1.840
13S-R8	13S	0.3~13	1/64~1/2	R8	183	195	50	1.130
16S-R8	16S	3~16	1/8~5/8	R8	188	200	58	1.670

QUICK CHANGE TAPPING CHUCKS / WITH LENGTH COMPENSATION / EXTRA LENGTH
快換式絲攻刀桿 / 伸縮緩衝加長型

Application

- Quick change of tap adapters.
- Length compensation could prevent tap from breaking while tapping.
- 快換式絲攻連接桿
- 緩衝可預防在攻牙時斷落





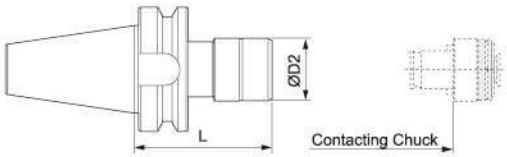
Model No.	Capacity	L (mm)	ØD2 (mm)	Collets	Weight (kgs)
BT40-WFE12-135	M3~M12	135	38	TC312 TC312B	2.0
BT40-WFE12-165	M3~M12	165	38	TC312 TC312B	2.3
BT50-WFE12-135	M3~M12	135	38	TC312 TC312B	4.4
BT50-WFE12-165	M3~M12	165	38	TC312 TC312B	4.7
BT50-WFE12-195	M3~M12	195	38	TC312 TC312B	5.0

QUICK CHANGE TAPPING CHUCKS / WITH LENGTH COMPENSATION
快換式絲攻刀桿 / 伸縮緩衝型

Application

- Quick change of tap adapters.
- Length compensation could prevent tap from breaking while tapping.
- 快換式絲攻連接桿
- 緩衝可預防在攻牙時斷落





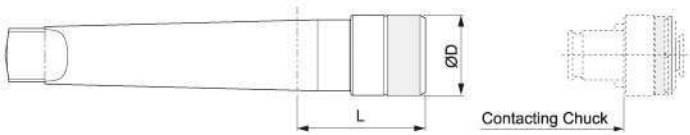
Model No.	Capacity	L (mm)	ØD2 (mm)	Collets	Weight (kgs)
BT30-WF12	M3~M12	70	36	TC312 TC312B	2.5
BT40-WF12	M3~M12	75	36	TC312 TC312B	3.5
BT50-WF12	M3~M12	85	36	TC312 TC312B	4.5
BT30-WF20	M8~M20	105	53	TC820 TC820B	2.5
BT40-WF20	M8~M20	95	53	TC820 TC820B	3.5
BT50-WF20	M8~M20	105	53	TC820 TC820B	4.5
BT40-WF33	M14~M33	160	78	TC1433 TC1433B	3.5
BT50-WF33	M14~M33	150	78	TC1433 TC1433B	4.5

QUICK CHANGE TAPPING CHUCKS / WITH LENGTH COMPENSATION / MORSE TAPER SHANK
快換式絲攻刀桿 / 伸縮緩衝型 / 莫氏錐度型

Application

- The products are suitable for radial drilling machines, CNC turning centers, high-speed center lathes, drilling machines, radial drilling machines, air tapping machines, milling machines and other machines with reversible spindles.
- 此產品適用於旋臂式鑽床、高速車床、直立式鑽床、銑床及其他可反轉的主軸。





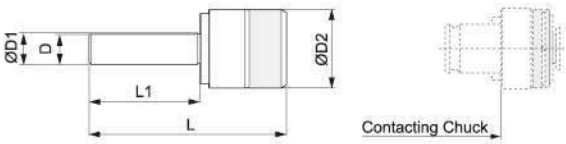
Model No.	Capacity	L (mm)	ØD2 (mm)	Collets	Weight (kgs)
MT2-WF12	M3~M12	47.5	36	TC312 TC312B	0.4
MT3-WF12	M3~M12	47.5	36	TC312 TC312B	0.5
MT4-WF12	M3~M12	49	36	TC312 TC312B	0.8
MT2-WF20	M8~M20	70	53	TC820 TC820B	0.4
MT3-WF20	M8~M20	70	53	TC820 TC820B	0.9
MT4-WF20	M8~M20	70	53	TC820 TC820B	1.2
MT4-WF33	M14~M33	110	78	TC1433 TC1433B	3.0

QUICK CHANGE TAPPING CHUCKS / WITH LENGTH COMPENSATION / STRAIGHT SHANK-SIDE-LOCK & CNC LATHE
快換式絲攻刀桿 / 伸縮緩衝型 / 直柄型-側固及CNC車床專用

Application

- Quick change of tap adapters.
- Length compensation could prevent tap from breaking after tapping.
- 快換式絲攻連接桿
- 緩衝可預防在攻牙時斷落



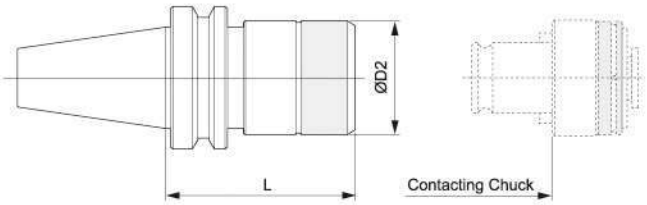


Model No.	Capacity	L (mm)	L1 (mm)	ØD (mm)	ØD1 (mm)	ØD2 (mm)	Collets	Weight (kgs)
D20A-WF12	M3~M12	113	70	19	20	36	TC312 TC312B	0.40
D32A-WF12	M3~M12	113	70	31	32	36	TC312 TC312B	0.61
D20A-WF20	M8~M20	135	70	19	20	53	TC820 TC820B	0.80
D32A-WF20	M8~M20	135	70	31	32	53	TC820 TC820B	1.10
D32A-WF33	M14~M33	183	80	31	32	78	TC1433B	2.30

QUICK CHANGE TAPPING CHUCKS
快換式絲攻刀桿

Application

- Quick change of tap adapters.
- Special designed for tapping.
- 快換式絲攻連接桿
- 絲攻專用



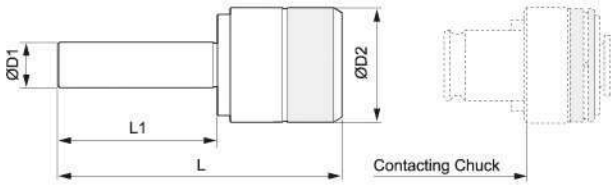


Model No.	Capacity	L (mm)	ØD2 (mm)	Collets	Weight (kgs)
BT40-SF12	M3~M12	60	32	TC312 TC312B	1.1
BT50-SF12	M3~M12	75	32	TC312 TC312B	3.6
BT40-SF20	M8~M20	82	50	TC820 TC820B	1.5
BT50-SF20	M8~M20	93	50	TC820 TC820B	4.0
BT40-SF33	M14~M36	115	76	TC1433 TC1433B	3.5

QUICK CHANGE TAPPING CHUCKS / STRAIGHT SHANK
快換式絲攻刀桿 / 直柄型-筒夾專用

Application

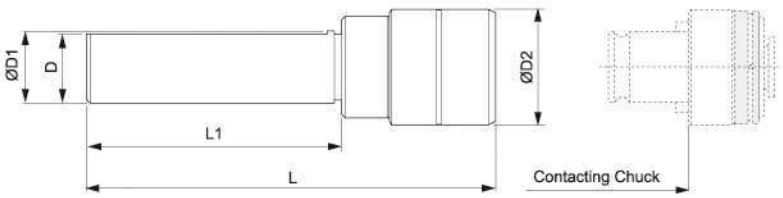
- Quick change of tap adapters.
- Special designed for tapping.
- 快換式絲攻連接桿
- 絲攻專用





Model No.	Capacity	L (mm)	L1 (mm)	ØD1 (mm)	ØD2 (mm)	Collets	Weight (kgs)
D20-SF12	M3~M12	104	36	20	32	TC312 TC312B	0.3
D32-SF12	M3~M12	106	36	32	32	TC312 TC312B	0.57
D20-SF20	M8~M20	124	70	25	50	TC820 TC820B	0.66
D32-SF20	M8~M20	124	36	32	50	TC820 TC820B	-
D25-SF33	M14~M33	169	70	25	76	TC1433 TC1433B	-
D30-SF33	M14~M33	169	60	30	76	TC1433 TC1433B	-
D32-SF33	M14~M33	169	70	32	76	TC1433 TC1433B	2.7

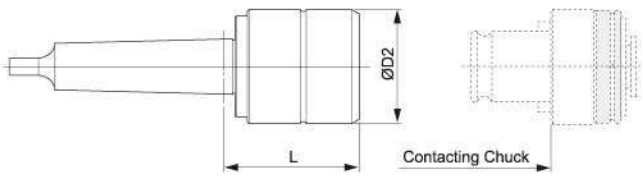
QUICK CHANGE TAPPING CHUCKS / STRAIGHT SHANK - SIDE - LOCK & CNC LATHE
快換式絲攻刀桿 / 直柄型-側固及CNC車床專用





Model No.	Capacity	L (mm)	L1 (mm)	ØD (mm)	ØD1 (mm)	ØD2 (mm)	Collets	Weight (kgs)
D20A-SF12	M3~M14	104	70	19	20	32	TC312 TC312B	-
D32A-SF12	M3~M14	106	70	31	32	32	TC312 TC312B	0.57
D20A-SF20	M8~M24	124	70	19	20	50	TC820 TC820B	0.66
D32A-SF20	M8~M24	124	70	31	32	50	TC820 TC820B	-
D25A-SF33	M14~M36	169	70	24	25	76	TC1433 TC1433B	2.492
D32A-SF33	M14~M36	169	70	31	32	76	TC1433 TC1433B	-

QUICK CHANGE TAPPING CHUCKS / MORSE TAPER SHANK
快換式絲攻刀桿 / 莫氏錐度型





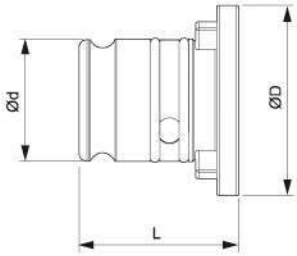
Model No.	Capacity	L (mm)	ØD2 (mm)	Collets	Weight (kgs)
MT2-SF12	M3~M14	39	32	TC312 TC312B	0.240
MT3-SF12	M3~M14	39	32	TC312 TC312B	0.385
MT4-SF12	M3~M14	34	32	TC312 TC312B	0.713
MT2-SF20	M8~M24	59	50	TC820 TC820B	0.615
MT3-SF20	M8~M24	59	50	TC820 TC820B	0.751
MT4-SF20	M8~M24	55	50	TC820 TC820B	1.070
MT3-SF33	M14~M36	104	76	TC1433 TC1433B	2.470
MT4-SF33	M14~M36	105	76	TC1433 TC1433B	2.800

TAP CHUCK REDUCER
絲攻轉接頭

Feature

- The tap chuck adapter is designed for transferring variety tapping machine system. It is easy to quick change for user and apply in different system tools.
- 絲攻轉接頭之設計目的，是為了轉換各種不同系統的絲攻機台，使用者可容易快換並節省工具成本。

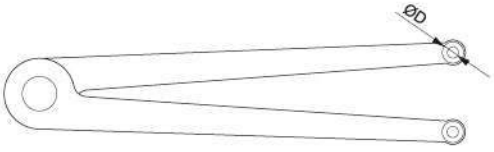






Model No.	Type	L (mm)	ØD (mm)	Ød (mm)	Collets	Weight (kgs)
TC820/312	TC820 → TC312	40.4	48	31	TC312 TC312B	0.176
TC1433/820	TC1433 → TC820	62.6	69	48	TC820 TC820B	0.558

ADJUSTABLE PIN WRENCHES
調整扳手



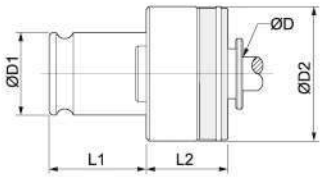


Model No.	Spec.	ØD (mm)	Collets	Weight (kgs)
STA0001	7 - 40	2.5	TC312 TC820	0.035
STA0002	11 - 60	4	TC1433	0.035

JIS TYPE - QUICK CHANGE TAP COLLETS WITH OVERLOAD CLUTCH
JIS 快換式絲攻夾頭-扭力型

Feature

- Overload clutch is designed to prevent tap from breaking after tapping.
- 扭力型絲攻設計可預防在攻牙時，絲攻斷裂。





Model No.	TC312 JIS Tap			Tap Shank絲攻尺寸 ØD柄徑	Tap Shank絲攻尺寸 □四方孔	Capacity 攻牙能力	L1 (mm)	L2 (mm)	ØD1 (mm)	ØD2 (mm)	Weight (kgs)
35201	M2	-	-	3.0	2.5	M3~M14	22	25	19	32	
35200	M3	-	#5, #6	4.0	3.2	M3~M14	22	25	19	32	
35202	M4	M4.5	#8	5.0	4.0	M3~M14	22	25	19	32	
35204	M5	M5.5	#10	5.5	4.5	M3~M14	22	25	19	32	
35206	M6	-	UNC 1/4	6.0	4.5	M3~M14	22	25	19	32	
35208	-	-	UNC 5/16	6.1	5.0	M3~M14	22	25	19	32	0.2
35210	M8	M7	-	6.2	5.0	M3~M14	22	25	19	32	
35212	M10	M9	UNC3/8	7.0	5.5	M3~M14	22	25	19	32	
35213	-	M11	UNC 7/16	8.0	6.0	M3~M14	22	25	19	32	
35214	M12	-	-	8.5	6.5	M3~M14	22	25	19	32	
35216	-	-	UNC1/2	9.0	7.0	M3~M14	22	25	19	32	
35218	M14	M15	UNC 9/16	10.5	8.0	M3~M14	22	25	19	32	

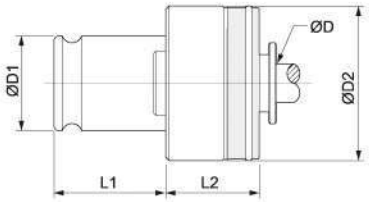
Model No.	TC820 JIS Tap			Tap Shank絲攻尺寸 ØD柄徑	Tap Shank絲攻尺寸 □四方孔	Capacity 攻牙能力	L1 (mm)	L2 (mm)	ØD1 (mm)	ØD2 (mm)	Weight (kgs)
35107	M5	M5.5	#10	5.5	4.5	M8~M24	36	30.5	31	50	
35105	M6	-	UNC 1/4	6.0	4.5	M8~M24	36	30.5	31	50	
35101	-	-	UNC 5/16	6.1	5.0	M8~M24	36	30.5	31	50	
35100	M8	M7	-	6.2	5.0	M8~M24	36	30.5	31	50	
35102	M10	M9	UNC 3/8	7.0	5.5	M8~M24	36	30.5	31	50	
35103	-	M11	UNC 7/16	8.0	6.0	M8~M24	36	30.5	31	50	
35104	M12	-	-	8.5	6.5	M8~M24	36	30.5	31	50	
35106	-	-	UNC 1/2	9.0	7.0	M8~M24	36	30.5	31	50	0.5
35108	M14	M15	UNC 9/16	10.5	8.0	M8~M24	36	30.5	31	50	
35110	-	-	UNC 5/8	12.0	9.0	M8~M24	36	30.5	31	50	
35112	M16	-	-	12.5	10.0	M8~M24	36	30.5	31	50	
35113	-	M17	-	13.0	10.0	M8~M24	36	30.5	31	50	
35114	M18	-	UNC 3/4	14.0	11.0	M8~M24	36	30.5	31	50	
35116	M20	-	-	15.0	12.0	M8~M24	36	30.5	31	50	
35118	M22	-	UNC 7/8	17.0	13.0	M8~M24	36	30.5	31	50	
35120	M24	M25	-	19.0	15.0	M8~M24	36	30.5	31	50	

Model No.	TC1433 JIS Tap			Tap Shank絲攻尺寸 ØD柄徑	Tap Shank絲攻尺寸 □四方孔	Capacity 攻牙能力	L1 (mm)	L2 (mm)	ØD1 (mm)	ØD2 (mm)	Weight (kgs)
35300	M14	M15	UNC 9/16	10.5	8.0	M14~M36	56	45	48	72	
35302	-	-	UNC 5/8	12.0	9.0	M14~M36	56	45	48	72	
35304	M16	-	-	12.5	10.0	M14~M36	56	45	48	72	
35306	-	M17	-	13.0	10.0	M14~M36	56	45	48	72	
35308	M18	-	UNC 3/4	14.0	11.0	M14~M36	56	45	48	72	
35310	M20	-	-	15.0	12.0	M14~M36	56	45	48	72	
35312	M22	-	UNC 7/8	17.0	13.0	M14~M36	56	45	48	72	
35314	M24	M25	-	19.0	15.0	M14~M36	56	45	48	72	1.6
35316	M27	M26	UNC 1	20.0	15.0	M14~M36	56	45	48	72	
35318	M28	-	-	21.0	17.0	M14~M36	56	45	48	72	
35320	-	-	UNC 1-1/8	22.0	17.0	M14~M36	56	45	48	72	
35322	M30	-	-	23.0	17.0	M14~M36	56	45	48	72	
35324	M32	-	UNC 1-1/4	24.0	19.0	M14~M36	56	45	48	72	
35326	M33	-	-	25.0	19.0	M14~M36	56	45	48	72	
35328	M35	M34	UNC 1-3/8	26.0	21.0	M14~M36	56	45	48	72	
35330	M36	-	-	28.0	21.0	M14~M36	56	45	48	72	

DIN371 TYPE - QUICK CHANGE TAP COLLETS WITH OVERLOAD CLUTCH
DIN371 快換式絲攻夾頭-扭力型

Feature

- Overload clutch is designed to prevent tap from breaking after tapping.
- 扭力型絲攻設計可預防在攻牙時，絲攻斷裂。

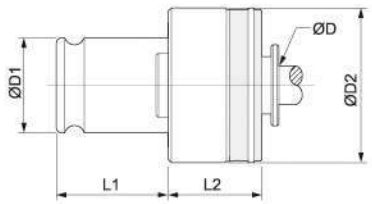




Model No.	TC312 DIN371 Tap	Tap Shank絲攻尺寸		Capacity 攻牙能力	L1 (mm)	L2 (mm)	ØD1 (mm)	ØD2 (mm)	Weight (kgs)
		ØD柄徑	□四方孔						
35223	M1~M1.8	2.5	2.1	M3~M14	22	25	19	32	0.2
35224	M2~M2.5	2.8	2.1	M3~M14	22	25	19	32	
35225	M3	3.5	2.7	M3~M14	22	25	19	32	
35226	M3.5	4.0	3.0	M3~M14	22	25	19	32	
35227	M4	4.5	3.4	M3~M14	22	25	19	32	
35228	M4.5	6.0	4.9	M3~M14	22	25	19	32	
35229	M5	6.0	4.9	M3~M14	22	25	19	32	
35230	M6	6.0	4.9	M3~M14	22	25	19	32	
35231	M8	8.0	6.2	M3~M14	22	25	19	32	
35232	M10	10.0	8.0	M3~M14	22	25	19	32	

Model No.	TC820 DIN371 Tap	Tap Shank絲攻尺寸		Capacity 攻牙能力	L1 (mm)	L2 (mm)	ØD1 (mm)	ØD2 (mm)	Weight (kgs)
		ØD柄徑	□四方孔						
35130	M5	6.0	4.9	M8~M24	36	30.5	31	50	0.5
35131	M6	6.0	4.9	M8~M24	36	30.5	31	50	
35132	M8	8.0	6.2	M8~M24	36	30.5	31	50	
35133	M10	10.0	8.0	M8~M24	36	30.5	31	50	

DIN376 TYPE - QUICK CHANGE TAP COLLETS WITH OVERLOAD CLUTCH
DIN376 快換式絲攻夾頭-扭力型



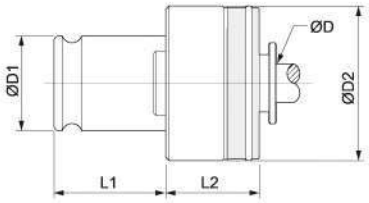


Model No.	TC312 DIN376 Tap	Tap Shank絲攻尺寸		Capacity 攻牙能力	L1 (mm)	L2 (mm)	ØD1 (mm)	ØD2 (mm)	Weight (kgs)
		ØD柄徑	□四方孔						
35240	M3.5	2.5	2.1	M3~M14	22	25	19	32	0.2
35242	M4	2.8	2.1	M3~M14	22	25	19	32	
35244	M4.5	3.5	2.7	M3~M14	22	25	19	32	
35246	M5	3.5	2.7	M3~M14	22	25	19	32	
35248	M6	4.5	3.4	M3~M14	22	25	19	32	
35250	M7	5.5	4.3	M3~M14	22	25	19	32	
35252	M8	6.0	4.9	M3~M14	22	25	19	32	
35254	M10	7.0	5.5	M3~M14	22	25	19	32	
35256	M12	9.0	7.0	M3~M14	22	25	19	32	
35258	M14	11.0	9.0	M3~M14	22	25	19	32	

Model No.	TC820 DIN376 Tap	Tap Shank絲攻尺寸		Capacity 攻牙能力	L1 (mm)	L2 (mm)	ØD1 (mm)	ØD2 (mm)	Weight (kgs)
		ØD柄徑	□四方孔						
35134	M8	6.0	4.9	M8~M24	36	30.5	31	50	0.5
35136	M10	7.0	5.5	M8~M24	36	30.5	31	50	
35138	M12	9.0	7.0	M8~M24	36	30.5	31	50	
35140	M14	11.0	9.0	M8~M24	36	30.5	31	50	
35142	M16	12.0	9.0	M8~M24	36	30.5	31	50	
35144	M18	14.0	11.0	M8~M24	36	30.5	31	50	
35146	M20	16.0	12.0	M8~M24	36	30.5	31	50	
35148	M22	18.0	14.5	M8~M24	36	30.5	31	50	
35150	M24	18.0	14.5	M8~M24	36	30.5	31	50	

Model No.	TC1433 DIN376 Tap	Tap Shank絲攻尺寸		Capacity 攻牙能力	L1 (mm)	L2 (mm)	ØD1 (mm)	ØD2 (mm)	Weight (kgs)
		ØD柄徑	□四方孔						
35336	M14	11.0	9.0	M14~M36	56	45	48	72	1.6
35338	M16	12.0	9.0	M14~M36	56	45	48	72	
35340	M18	14.0	11.0	M14~M36	56	45	48	72	
35342	M20	16.0	12.0	M14~M36	56	45	48	72	
35344	M22	18.0	14.5	M14~M36	56	45	48	72	
35346	M24	18.0	14.5	M14~M36	56	45	48	72	
35348	M27	20.0	16.0	M14~M36	56	45	48	72	
35350	M30	22.0	18.0	M14~M36	56	45	48	72	
35352	M33	25.0	20.0	M14~M36	56	45	48	72	
35354	M36	28.0	22.0	M14~M36	56	45	48	72	

ISO529 TYPE - QUICK CHANGE TAP COLLETS WITH OVERLOAD CLUTCH
ISO529 快換式絲攻夾頭-扭力型

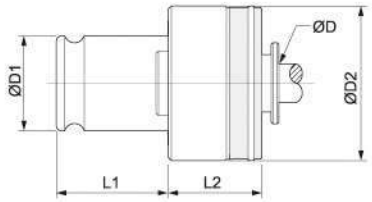




Model No.	TC312 ISO529 Tap	Tap Shank絲攻尺寸		Capacity 攻牙能力	L1 (mm)	L2 (mm)	ØD1 (mm)	ØD2 (mm)	Weight (kgs)
		ØD柄徑	□四方孔						
35261	M1~M2	2.5	2.0	M3~M14	22	25	19	32	0.2
35262	M2.2~M2.5	2.8	2.24	M3~M14	22	25	19	32	
35263	M3	3.15	2.5	M3~M14	22	25	19	32	
35264	M3.5	3.55	2.8	M3~M14	22	25	19	32	
35265	M4	4.0	3.15	M3~M14	22	25	19	32	
35266	M4.5	4.5	3.55	M3~M14	22	25	19	32	
35267	M5	5.0	4.0	M3~M14	22	25	19	32	
35268	M6	6.3	5.0	M3~M14	22	25	19	32	
35269	M7	7.1	5.6	M3~M14	22	25	19	32	
35270	M8	8.0	6.3	M3~M14	22	25	19	32	
35271	M9	9.0	7.1	M3~M14	22	25	19	32	
35272	M10	10.0	8.0	M3~M14	22	25	19	32	

Model No.	TC820 ISO529 Tap	Tap Shank絲攻尺寸		Capacity 攻牙能力	L1 (mm)	L2 (mm)	ØD1 (mm)	ØD2 (mm)	Weight (kgs)
		ØD柄徑	□四方孔						
35151	M6	6.3	5.0	M8~M24	36	30.5	31	50	0.5
35152	M7	7.1	5.6	M8~M24	36	30.5	31	50	
35153	M8	8.0	6.3	M8~M24	36	30.5	31	50	
35154	M9	9.0	7.1	M8~M24	36	30.5	31	50	
35155	M10	10.0	8.0	M8~M24	36	30.5	31	50	

ISO529/2283 TYPE - QUICK CHANGE TAP COLLETS WITH OVERLOAD CLUTCH
ISO529/2283 快換式絲攻夾頭-扭力型



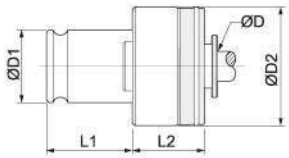


Model No.	TC312 ISO529/2283 Tap	Tap Shank絲攻尺寸 ØD柄徑	Tap Shank絲攻尺寸 □四方孔	Capacity 攻牙能力	L1 (mm)	L2 (mm)	ØD1 (mm)	ØD2 (mm)	Weight (kgs)
35275	M3	2.24	1.8	M3~M14	22	25	19	32	0.2
35276	M3.5	2.5	2.0	M3~M14	22	25	19	32	
35277	M4	3.15	2.5	M3~M14	22	25	19	32	
35278	M4.5	3.55	2.8	M3~M14	22	25	19	32	
35279	M5	4.0	3.15	M3~M14	22	25	19	32	
35280	M6	4.5	3.55	M3~M14	22	25	19	32	
35281	M7	5.6	4.5	M3~M14	22	25	19	32	
35282	M8	6.3	5.0	M3~M14	22	25	19	32	
35283	M9	7.1	5.6	M3~M14	22	25	19	32	
35284	M10	8.0	6.3	M3~M14	22	25	19	32	
35285	M12	9.0	7.1	M3~M14	22	25	19	32	
35286	M14	11.2	9.0	M3~M14	22	25	19	32	

Model No.	TC820 ISO529/2283 Tap	Tap Shank絲攻尺寸 ØD柄徑	Tap Shank絲攻尺寸 □四方孔	Capacity 攻牙能力	L1 (mm)	L2 (mm)	ØD1 (mm)	ØD2 (mm)	Weight (kgs)
35156	M8	6.3	5.0	M8~M24	36	30.5	31	50	0.5
35158	M9	7.1	5.6	M8~M24	36	30.5	31	50	
35160	M10	8.0	6.3	M8~M24	36	30.5	31	50	
35162	M12	9.0	7.1	M8~M24	36	30.5	31	50	
35164	M14	11.2	9.0	M8~M24	36	30.5	31	50	
35166	M16	12.5	10.0	M8~M24	36	30.5	31	50	
35168	M18	14.0	11.2	M8~M24	36	30.5	31	50	
35170	M20	14.0	11.2	M8~M24	36	30.5	31	50	
35172	M22	16.0	12.5	M8~M24	36	30.5	31	50	
35174	M24	18.0	14.0	M8~M24	36	30.5	31	50	

Model No.	TC1433 ISO529/2283 Tap	Tap Shank絲攻尺寸 ØD柄徑	Tap Shank絲攻尺寸 □四方孔	Capacity 攻牙能力	L1 (mm)	L2 (mm)	ØD1 (mm)	ØD2 (mm)	Weight (kgs)
35356	M14	11.2	9.0	M14~M36	56	45	48	72	1.6
35358	M16	12.5	10.0	M14~M36	56	45	48	72	
35360	M18	14.0	11.2	M14~M36	56	45	48	72	
35362	M20	14.0	11.2	M14~M36	56	45	48	72	
35364	M22	16.0	12.5	M14~M36	56	45	48	72	
35366	M24	18.0	14.0	M14~M36	56	45	48	72	
35368	M27	20.0	16.0	M14~M36	56	45	48	72	
35370	M30	20.0	16.0	M14~M36	56	45	48	72	
35372	M33	22.4	18.0	M14~M36	56	45	48	72	
35374	M36	25.0	20.0	M14~M36	56	45	48	72	

JIS TYPE - QUICK CHANGE TAP COLLETS WITH OVERLOAD CLUTCH
JIS 快換式絲攻夾頭-扭力型



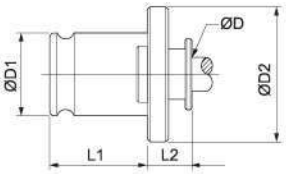


Model No.	TC312 JIS Tap	Tap Shank絲攻尺寸 ØD柄徑	Tap Shank絲攻尺寸 □四方孔	Capacity 攻牙能力	L1 (mm)	L2 (mm)	ØD1 (mm)	ØD2 (mm)	Weight (kgs)
35219	PT 1/8	8.0	6.0	PT1/8~PT 1/4	22	25	19	32	0.2
35220	PT 1/4	11.0	9.0	PT1/8~PT 1/4	22	25	19	32	

Model No.	TC820 JIS Tap	Tap Shank絲攻尺寸 ØD柄徑	Tap Shank絲攻尺寸 □四方孔	Capacity 攻牙能力	L1 (mm)	L2 (mm)	ØD1 (mm)	ØD2 (mm)	Weight (kgs)
35121	PT 1/8	8.0	6.0	PT1/8~PT 1/2	36	30.5	31	50	0.5
35122	PT 1/4	11.0	9.0	PT1/8~PT 1/2	36	30.5	31	50	
35123	PT 3/8	14.0	11.0	PT1/8~PT 1/2	36	30.5	31	50	
35124	PT 1/2	18.0	14.0	PT1/8~PT 1/2	36	30.5	31	50	

Model No.	TC1433 JIS Tap	Tap Shank絲攻尺寸 ØD柄徑	Tap Shank絲攻尺寸 □四方孔	Capacity 攻牙能力	L1 (mm)	L2 (mm)	ØD1 (mm)	ØD2 (mm)	Weight (kgs)
35331	PT 1/4	11.0	9.0	PT1/4~PT 1"	56	45	48	72	1.6
35332	PT 3/8	14.0	11.0	PT1/4~PT 1"	56	45	48	72	
35333	PT 1/2	18.0	14.0	PT1/4~PT 1"	56	45	48	72	
35334	PT 3/4	23.0	17.0	PT1/4~PT 1"	56	45	48	72	
35335	PT 1	26.0	21.0	PT1/4~PT 1"	56	45	48	72	

JIS TYPE - QUICK CHANGE TAP COLLETS - RIGID TYPE
JIS 快換式絲攻-剛性





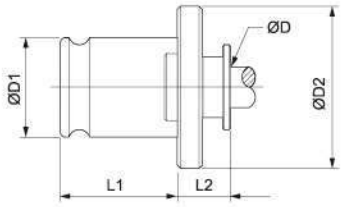
Model No.	TC308B JIS Tap	Tap Shank絲攻尺寸 ØD柄徑	Tap Shank絲攻尺寸 □四方孔	Capacity 攻牙能力	L1 (mm)	L2 (mm)	ØD1 (mm)	ØD2 (mm)	Weight (kgs)
35818	PT 1/8	8.0	6.0	PT1/8~PT 1/4	19.5	7	12.65	22	0.2
35820	PT 1/4	11.0	9.0	PT1/8~PT 1/4	19.5	7	12.65	22	

Model No.	TC312B JIS Tap	Tap Shank絲攻尺寸 ØD柄徑	Tap Shank絲攻尺寸 □四方孔	Capacity 攻牙能力	L1 (mm)	L2 (mm)	ØD1 (mm)	ØD2 (mm)	Weight (kgs)
35419	PT 1/8	8.0	6.0	PT1/8~PT 1/4	22	7	19	30	0.2
35420	PT 1/4	11.0	9.0	PT1/8~PT 1/4	22	7	19	30	

Model No.	TC820B JIS Tap	Tap Shank絲攻尺寸 ØD柄徑	Tap Shank絲攻尺寸 □四方孔	Capacity 攻牙能力	L1 (mm)	L2 (mm)	ØD1 (mm)	ØD2 (mm)	Weight (kgs)
35521	PT 1/8	8.0	6.0	PT1/8~PT 1/2	36	11	31	48	0.5
35522	PT 1/4	11.0	9.0	PT1/8~PT 1/2	36	11	31	48	
35523	PT 3/8	14.0	11.0	PT1/8~PT 1/2	36	11	31	48	
35524	PT 1/2	18.0	14.0	PT1/8~PT 1/2	36	11	31	48	

Model No.	TC1433B JIS Tap	Tap Shank絲攻尺寸 ØD柄徑	Tap Shank絲攻尺寸 □四方孔	Capacity 攻牙能力	L1 (mm)	L2 (mm)	ØD1 (mm)	ØD2 (mm)	Weight (kgs)
35631	PT 1/4	11.0	9.0	PT1/4~PT 1"	56	14	48	70	1.6
35632	PT 3/8	14.0	11.0	PT1/4~PT 1"	56	14	48	70	
35633	PT 1/2	18.0	14.0	PT1/4~PT 1"	56	14	48	70	
35634	PT 3/4	23.0	17.0	PT1/4~PT 1"	56	14	48	70	
35635	PT 1	26.0	21.0	PT1/4~PT 1"	56	14	48	70	

JIS TYPE - QUICK CHANGE TAP COLLETS - RIGID TYPE
JIS 快換式絲攻-剛性



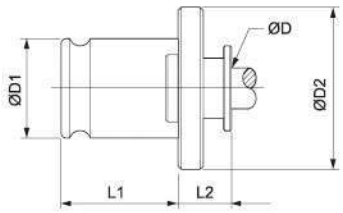


Model No.	TC312B JIS Tap			Tap Shank絲攻尺寸 ØD柄徑	Tap Shank絲攻尺寸 □四方孔	Capacity 攻牙能力	L1 (mm)	L2 (mm)	ØD1 (mm)	ØD2 (mm)	Weight (kgs)
35401	M2	-	-	3.0	2.5	M3~M14	22	7	19	30	
35400	M3	-	#5, #6	4.0	3.2	M3~M14	22	7	19	30	
35402	M4	M4.5	#8	5.0	4.0	M3~M14	22	7	19	30	
35404	M5	M5.5	#10	5.5	4.5	M3~M14	22	7	19	30	
35406	M6	-	UNC 1/4	6.0	4.5	M3~M14	22	7	19	30	
35408	-	-	UNC 5/16	6.1	5.0	M3~M14	22	7	19	30	0.2
35410	M8	M7	-	6.2	5.0	M3~M14	22	7	19	30	
35412	M10	M9	UNC 3/8	7.0	5.5	M3~M14	22	7	19	30	
35413	-	M11	UNC 7/16	8.0	6.0	M3~M14	22	7	19	30	
35414	M12	-	-	8.5	6.5	M3~M14	22	7	19	30	
35416	-	-	UNC 1/2	9.0	7.0	M3~M14	22	7	19	30	
35418	M14	M15	UNC 9/16	10.5	8.0	M3~M14	22	7	19	30	

Model No.	TC820B JIS Tap			Tap Shank絲攻尺寸 ØD柄徑	Tap Shank絲攻尺寸 □四方孔	Capacity 攻牙能力	L1 (mm)	L2 (mm)	ØD1 (mm)	ØD2 (mm)	Weight (kgs)
35500	M8	M7	-	6.2	5.0	M8~M24	36	11	31	48	
35502	M10	M9	UNC 3/8	7.0	5.5	M8~M24	36	11	31	48	
35503	-	M11	UNC 7/16	8.0	6.0	M8~M24	36	11	31	48	
35504	M12	-	-	8.5	6.5	M8~M24	36	11	31	48	
35506	-	-	UNC 1/2	9.0	7.0	M8~M24	36	11	31	48	
35508	M14	M15	UNC 9/16	10.5	8.0	M8~M24	36	11	31	48	
35510	-	-	UNC 5/8	12.0	9.0	M8~M24	36	11	31	48	0.5
35512	M16	-	-	12.5	10.0	M8~M24	36	11	31	48	
35513	-	M17	-	13.0	10.0	M8~M24	36	11	31	48	
35514	M18	-	UNC 3/4	14.0	11.0	M8~M24	36	11	31	48	
35516	M20	-	-	15.0	12.0	M8~M24	36	11	31	48	
35518	M22	-	UNC 7/8	17.0	13.0	M8~M24	36	11	31	48	
35520	M24	M25	-	19.0	15.0	M8~M24	36	11	31	48	

Model No.	TC1433B JIS Tap			Tap Shank絲攻尺寸 ØD柄徑	Tap Shank絲攻尺寸 □四方孔	Capacity 攻牙能力	L1 (mm)	L2 (mm)	ØD1 (mm)	ØD2 (mm)	Weight (kgs)
35600	M14	M15	UNC 9/16	10.5	8.0	M14~M36	56	14	48	70	
35602	-	-	UNC 5/8	12.0	9.0	M14~M36	56	14	48	70	
35604	M16	-	-	12.5	10.0	M14~M36	56	14	48	70	
35606	-	M17	-	13.0	10.0	M14~M36	56	14	48	70	
35608	M18	-	UNC 3/4	14.0	11.0	M14~M36	56	14	48	70	
35610	M20	-	-	15.0	12.0	M14~M36	56	14	48	70	
35612	M22	-	UNC 7/8	17.0	13.0	M14~M36	56	14	48	70	
35614	M24	M25	-	19.0	15.0	M14~M36	56	14	48	70	
35616	M27	M26	UNC 1	20.0	15.0	M14~M36	56	14	48	70	1.6
35618	M28	-	-	21.0	17.0	M14~M36	56	14	48	70	
35620	-	-	UNC 1-1/8	22.0	17.0	M14~M36	56	14	48	70	
35622	M30	-	-	23.0	17.0	M14~M36	56	14	48	70	
35624	M32	-	UNC 1-1/4	24.0	19.0	M14~M36	56	14	48	70	
35626	M33	-	-	25.0	19.0	M14~M36	56	14	48	70	
35628	M35	M34	UNC 1-3/8	26.0	21.0	M14~M36	56	14	48	70	
35630	M36	-	-	28.0	21.0	M14~M36	56	14	48	70	

DIN371 TYPE - QUICK CHANGE TAP COLLETS - RIGID TYPE
DIN371 快換式絲攻-剛性



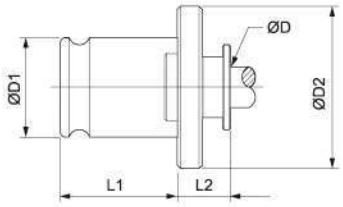


Model No.	TC308B DIN371 Tap	Tap Shank絲攻尺寸		Capacity 攻牙能力	L1 (mm)	L2 (mm)	ØD1 (mm)	ØD2 (mm)	Weight (kgs)
		ØD柄徑	□四方孔						
35824	M1~M1.8	2.5	2.1	M3~M8	19.5	7	12.65	22	
35825	M2~M2.5	2.8	2.1	M3~M8	19.5	7	12.65	22	
35826	M3	3.5	2.7	M3~M8	19.5	7	12.65	22	
35827	M3.5	4.0	3.0	M3~M8	19.5	7	12.65	22	
35828	M4	4.5	3.4	M3~M8	19.5	7	12.65	22	0.2
35829	M4.5	6.0	4.9	M3~M8	19.5	7	12.65	22	
35830	M5	6.0	4.9	M3~M8	19.5	7	12.65	22	
35831	M6	6.0	4.9	M3~M8	19.5	7	12.65	22	
35832	M8	8.0	6.2	M3~M8	19.5	7	12.65	22	

Model No.	TC312B DIN371 Tap	Tap Shank絲攻尺寸		Capacity 攻牙能力	L1 (mm)	L2 (mm)	ØD1 (mm)	ØD2 (mm)	Weight (kgs)
		ØD柄徑	□四方孔						
35423	M1~M1.8	2.5	2.1	M3~M14	22	7	19	30	
35424	M2~M2.5	2.8	2.1	M3~M14	22	7	19	30	
35425	M3	3.5	2.7	M3~M14	22	7	19	30	
35426	M3.5	4.0	3.0	M3~M14	22	7	19	30	
35427	M4	4.5	3.4	M3~M14	22	7	19	30	0.2
35428	M4.5	6.0	4.9	M3~M14	22	7	19	30	
35429	M5	6.0	4.9	M3~M14	22	7	19	30	
35430	M6	6.0	4.9	M3~M14	22	7	19	30	
35431	M8	8.0	6.2	M3~M14	22	7	19	30	
35432	M10	10.0	8.0	M3~M14	22	7	19	30	

Model No.	TC820B DIN371 Tap	Tap Shank絲攻尺寸		Capacity 攻牙能力	L1 (mm)	L2 (mm)	ØD1 (mm)	ØD2 (mm)	Weight (kgs)
		ØD柄徑	□四方孔						
35529	M4.5	6.0	4.9	M8~M24	36	11	31	48	
35530	M5	6.0	4.9	M8~M24	36	11	31	48	
35531	M6	6.0	4.9	M8~M24	36	11	31	48	0.5
35532	M8	8.0	6.2	M8~M24	36	11	31	48	
35533	M10	10.0	8.0	M8~M24	36	11	31	48	

DIN376 TYPE - QUICK CHANGE TAP COLLETS - RIGID TYPE
DIN376 快換式絲攻-剛性





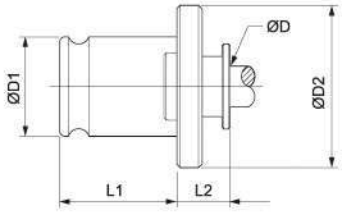
Model No.	TC308B DIN376 Tap	Tap Shank絲攻尺寸		Capacity 攻牙能力	L1 (mm)	L2 (mm)	ØD1 (mm)	ØD2 (mm)	Weight (kgs)
		ØD柄徑	□四方孔						
35836	M3.5	2.5	2.1	M3~M8	19.5	7	12.65	22	0.2
35838	M4	2.8	2.1	M3~M8	19.5	7	12.65	22	
35840	M4.5	3.5	2.7	M3~M8	19.5	7	12.65	22	
35842	M5	3.5	2.7	M3~M8	19.5	7	12.65	22	
35844	M6	4.5	3.4	M3~M8	19.5	7	12.65	22	
35846	M7	5.5	4.3	M3~M8	19.5	7	12.65	22	
35848	M8	6.0	4.9	M3~M8	19.5	7	12.65	22	
35850	M10	7.0	5.5	M3~M8	19.5	7	12.65	22	
35852	M12	9.0	7.0	M3~M8	19.5	7	12.65	22	
35854	M14	11.0	9.0	M3~M8	19.5	7	12.65	22	
35856	M16	12.0	9.0	M3~M8	19.5	7	12.65	22	

Model No.	TC312B DIN376 Tap	Tap Shank絲攻尺寸		Capacity 攻牙能力	L1 (mm)	L2 (mm)	ØD1 (mm)	ØD2 (mm)	Weight (kgs)
		ØD柄徑	□四方孔						
35440	M3.5	2.5	2.1	M3~M14	22	7	19	30	0.2
35442	M4	2.8	2.1	M3~M14	22	7	19	30	
35444	M4.5	3.5	2.7	M3~M14	22	7	19	30	
35446	M5	3.5	2.7	M3~M14	22	7	19	30	
35448	M6	4.5	3.4	M3~M14	22	7	19	30	
35450	M7	5.5	4.3	M3~M14	22	7	19	30	
35452	M8	6.0	4.9	M3~M14	22	7	19	30	
35454	M10	7.0	5.5	M3~M14	22	7	19	30	
35456	M12	9.0	7.0	M3~M14	22	7	19	30	
35458	M14	11.0	9.0	M3~M14	22	7	19	30	

Model No.	TC820B DIN376 Tap	Tap Shank絲攻尺寸		Capacity 攻牙能力	L1 (mm)	L2 (mm)	ØD1 (mm)	ØD2 (mm)	Weight (kgs)
		ØD柄徑	□四方孔						
35534	M8	6.0	4.9	M8~M24	36	11	31	48	0.5
35536	M10	7.0	5.5	M8~M24	36	11	31	48	
35538	M12	9.0	7.0	M8~M24	36	11	31	48	
35540	M14	11.0	9.0	M8~M24	36	11	31	48	
35542	M16	12.0	9.0	M8~M24	36	11	31	48	
35544	M18	14.0	11.0	M8~M24	36	11	31	48	
35546	M20	16.0	12.0	M8~M24	36	11	31	48	
35548	M22	18.0	14.5	M8~M24	36	11	31	48	
35550	M24	18.0	14.5	M8~M24	36	11	31	48	

Model No.	TC1433B DIN376 Tap	Tap Shank絲攻尺寸		Capacity 攻牙能力	L1 (mm)	L2 (mm)	ØD1 (mm)	ØD2 (mm)	Weight (kgs)
		ØD柄徑	□四方孔						
35636	M14	11.0	9.0	M14~M36	56	14	48	70	1.6
35638	M16	12.0	9.0	M14~M36	56	14	48	70	
35640	M18	14.0	11.0	M14~M36	56	14	48	70	
35642	M20	16.0	12.0	M14~M36	56	14	48	70	
35644	M22	18.0	14.5	M14~M36	56	14	48	70	
35646	M24	18.0	14.5	M14~M36	56	14	48	70	
35648	M27	20.0	16.0	M14~M36	56	14	48	70	
35650	M30	22.0	18.0	M14~M36	56	14	48	70	
35652	M33	25.0	20.0	M14~M36	56	14	48	70	
35654	M36	28.0	22.0	M14~M36	56	14	48	70	

ISO529 TYPE - QUICK CHANGE TAP COLLETS - RIGID TYPE
ISO529 快換式絲攻-剛性

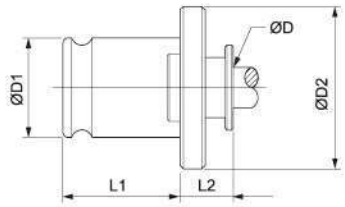




Model No.	TC312B ISO529 Tap	Tap Shank絲攻尺寸		Capacity 攻牙能力	L1 (mm)	L2 (mm)	ØD1 (mm)	ØD2 (mm)	Weight (kgs)
		ØD柄徑	□四方孔						
35461	M1~M2	2.5	2.0	M3~M14	22	7	19	30	0.2
35462	M2.2~M2.5	2.8	2.24	M3~M14	22	7	19	30	
35463	M3	3.15	2.5	M3~M14	22	7	19	30	
35464	M3.5	3.55	2.8	M3~M14	22	7	19	30	
35465	M4	4.0	3.15	M3~M14	22	7	19	30	
35466	M4.5	4.5	3.55	M3~M14	22	7	19	30	
35467	M5	5.0	4.0	M3~M14	22	7	19	30	
35468	M6	6.3	5.0	M3~M14	22	7	19	30	
35469	M7	7.1	5.6	M3~M14	22	7	19	30	
35470	M8	8.0	6.3	M3~M14	22	7	19	30	
35471	M9	9.0	7.1	M3~M14	22	7	19	30	
35472	M10	10.0	8.0	M3~M14	22	7	19	30	

Model No.	TC820B ISO529 Tap	Tap Shank絲攻尺寸		Capacity 攻牙能力	L1 (mm)	L2 (mm)	ØD1 (mm)	ØD2 (mm)	Weight (kgs)
		ØD柄徑	□四方孔						
35551	M6	6.3	5.0	M8~M24	36	11	31	48	0.5
35552	M7	7.1	5.6	M8~M24	36	11	31	48	
35553	M8	8.0	6.3	M8~M24	36	11	31	48	
35554	M9	9.0	7.1	M8~M24	36	11	31	48	
35555	M10	10.0	8.0	M8~M24	36	11	31	48	

ISO529/2283 TYPE - QUICK CHANGE TAP COLLETS-RIGID TYPE
ISO529/2283 快換式絲攻-剛性





Model No.	TC312B ISO529/2283 Tap	Tap Shank絲攻尺寸 ØD柄徑	Tap Shank絲攻尺寸 □四方孔	Capacity 攻牙能力	L1 (mm)	L2 (mm)	ØD1 (mm)	ØD2 (mm)	Weight (kgs)
35475	M3	2.24	1.8	M3~M14	22	7	19	30	0.2
35476	M3.5	2.5	2.0	M3~M14	22	7	19	30	
35477	M4	3.15	2.5	M3~M14	22	7	19	30	
35478	M4.5	3.55	2.8	M3~M14	22	7	19	30	
35479	M5	4.0	3.15	M3~M14	22	7	19	30	
35480	M6	4.5	3.55	M3~M14	22	7	19	30	
35481	M7	5.6	4.5	M3~M14	22	7	19	30	
35482	M8	6.3	5.0	M3~M14	22	7	19	30	
35483	M9	7.1	5.6	M3~M14	22	7	19	30	
35484	M10	8.0	6.3	M3~M14	22	7	19	30	
35485	M12	9.0	7.1	M3~M14	22	7	19	30	
35486	M14	11.2	9.0	M3~M14	22	7	19	30	

Model No.	TC820B ISO529/2283 Tap	Tap Shank絲攻尺寸 ØD柄徑	Tap Shank絲攻尺寸 □四方孔	Capacity 攻牙能力	L1 (mm)	L2 (mm)	ØD1 (mm)	ØD2 (mm)	Weight (kgs)
35556	M8	6.3	5.0	M8~M24	36	11	31	48	0.5
35558	M9	7.1	5.6	M8~M24	36	11	31	48	
35560	M10	8.0	6.3	M8~M24	36	11	31	48	
35562	M12	9.0	7.1	M8~M24	36	11	31	48	
35564	M14	11.2	9.0	M8~M24	36	11	31	48	
35566	M16	12.5	10.0	M8~M24	36	11	31	48	
35568	M18	14.0	11.2	M8~M24	36	11	31	48	
35570	M20	14.0	11.2	M8~M24	36	11	31	48	
35572	M22	16.0	12.5	M8~M24	36	11	31	48	
35574	M24	18.0	14.0	M8~M24	36	11	31	48	

Model No.	TC1433B ISO529/2283 Tap	Tap Shank絲攻尺寸 ØD柄徑	Tap Shank絲攻尺寸 □四方孔	Capacity 攻牙能力	L1 (mm)	L2 (mm)	ØD1 (mm)	ØD2 (mm)	Weight (kgs)
35656	M14	11.2	9.0	M14~M36	56	14	48	70	1.6
35658	M16	12.5	10.0	M14~M36	56	14	48	70	
35660	M18	14.0	11.2	M14~M36	56	14	48	70	
35662	M20	14.0	11.2	M14~M36	56	14	48	70	
35664	M22	16.0	12.5	M14~M36	56	14	48	70	
35666	M24	18.0	14.0	M14~M36	56	14	48	70	
35668	M27	20.0	16.0	M14~M36	56	14	48	70	
35670	M30	20.0	16.0	M14~M36	56	14	48	70	
35672	M33	22.4	18.0	M14~M36	56	14	48	70	
35674	M36	25.0	20.0	M14~M36	56	14	48	70	

DRILL TAPPING SET
旋臂鑽床攻牙組

Standard Set

- Taper holder (body) x 1 pc
- Tap sleeves x 2 pcs
- Tap collets x 6 pcs
- L type adjusting wrench x 1 pc

- 旋臂攻牙本體 x 1pc
- 絲攻套筒 x 2 pcs
- 絲攻筒夾 x 6 pcs
- L型調整扳手 1 pc





DT33 Standard Set:

Model No.	Tap Holder	Standard Size	Weight (kgs)
DT33 MAT3 - 10 PCS/SET	DT33 MTA3 Holder	JTA6 + 13HTP DT-33 - M8, M10, M12, M16, M20, M24 DT-33 - MT2, DT-33 - MT3	11.3
DT33 MAT4 - 10 PCS/SET	DT33 MTA4 Holder		11.7
DT33 MAT5 - 10 PCS/SET	DT33 MTA5 Holder		12.6

Model No.	Model No.	Weight (kgs)
Tap Holder	DT33-MT3	3.15
	DT33-MT4	3.48
	DT33-MT5	4.38
Taper Sleeve	DT33-MT1	0.6
	DT33-MT2	0.7
	DT33-MT3	0.7
	DT33-MT4	0.7
Tap Collet	M5(3/16), M6 (W1/4) , M8, M10 (W3/8) , M12 , M14 , M16, M18 (W3/4 , PT3/8), M20, M22 (W7/8) , M24 , M27 (W1) , M28 , M30 , M32 (W1-1/4, PT7/8) , M33 , M35 (1-3/8, PT1) , M36 (PT1-1/8), W1/2 , W5/8 , W1-1/8 , PT1/8 , PT1/2	0.6

Model No.	Model No.	Weight (kgs)
Tap Holder	DT52-MT5	7.43
Taper Sleeve	DT52-MT2	2.2
	DT52-MT3	2.2
	DT52-MT4	2.2
	DT52-MT5	1.7
Tap Collet	M20 , M22 (W7/8) , M24 , M27 (W1) , M30 , M32 (W1-1/4, PT7/8) , M33 , M35 (W1-3/8, PT1) , M36 (PT1-1/8), M40 (W1-1/2) M42 (PT1-1/4), M45 (W1-3/4, PT1-3/8) , M48 (PT1-1/2) , M52 (PT1-3/4) , M56 , M60 (PT2) , M64 (W2-1/2), W2 , W1-1/8	2.3

Feature

- DT33 taper holder could be ordered with standard set or choice each size separately.
- 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/□).**

- DT33攻牙組可選擇標準組整組訂購，也可依照需求分別購買。
- 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。
- 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/□)。**

DT33 / 52 SIZE OF TAP COLLETS
絲攻筒夾規格

DT33 TAP SIZE SPECIFICATION 絲攻筒夾											
JIS	Ød	□	ISO	Ød	□	DIN371	Ød	□	DIN376	Ød	□
DT33 M06 W1/4	6	4.5	DT33 M08	8	6.3	DT33 M08	8	6.2	DT33 M08	6	4.9
DT33 M08	6.2	5	DT33 M10	10	8	DT33 M10	10	8	DT33 M10	7	5.5
DT33 M10 W3/8	7	5.5	DT33 M12	9	7.1				DT33 M12	9	7
DT33 M12	8.5	6.5	DT33 M14	11.2	9				DT33 M14	11	9
DT33 M14	10.5	8	DT33 M16	12.5	10				DT33 M16	12	9
DT33 M16	12.5	10	DT33 M18 M20	14	11.2				DT33 M18	14	11
DT33 M18 W3/4 PT3/8	14	11	DT33 M22	16	12.5				DT33 M20	16	12
DT33 M20	15	12	DT33 M24	18	14				DT33 M22 M24	18	14.5
DT33 M22 W7/8	17	13	DT33 M27 M30	20	16				DT33 M27	20	16
DT33 M24	19	15	DT33 M33	22.4	18				DT33 M30	22	18
DT33 M27 W1" PT5/8	20	15	DT33 M36	25	20				DT33 M33	25	20
DT33 M30 PT3/4	23	17							DT33 M36	28	22
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 W1-18	22	17									
DT33 PT1/4	11	9									
DT33 PT1/2	18	14									

DT52 TAP SIZE SPECIFICATION 絲攻筒夾								
JIS	Ød	□	ISO	Ød	□	DIN376	Ød	□
DT52 M20	15	12	DT52 M20	14	11.2	DT52 M20	16	12
DT52 M22 W7/8	17	13	DT52 M22	16	12.5	DT52 M22 M24 W1"	18	14.5
DT52 M24 M25	19	15	DT52 M24	18	14	DT52 M27	20	16
DT52 M27 W1 PT5/8	20	15	DT52 M27 M30	20	16	DT52 M30	22	18
DT52 M30 PT3/4	23	17	DT52 M33	22.4	18	DT52 M33	25	20
DT52 M32 W1-14 PT7/8	24	19	DT52 M36	25	20	DT52 M36	28	22
DT52 M33	25	19	DT52 M39 M42	28	22.4	DT52 M39 M42	32	24
DT52 M34 M35 W1-3/8 PT1	26	21	DT52 M45 M48	31.5	25	DT52 M45 M48	36	29
DT52 M36 PT1-1/8	28	21	DT52 M52	35.5	28	DT52 M52	40	32
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						

BT FACE MILL A TYPE / FMA
BT 平面銑刀柄

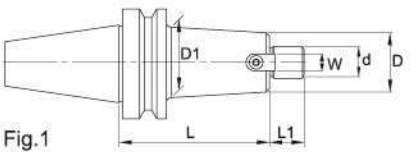


Fig.1

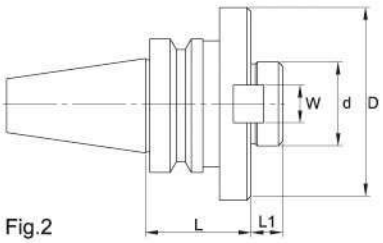
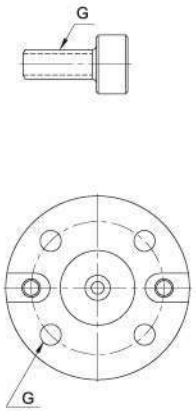


Fig.2





Model No.	Fig	Ød (mm)	L (mm)	L1 (mm)	G	W (mm)	ØD (mm)	ØD1 (mm)	Weight (kgs)
BT30-FMA25.4-45	1	25.4	45	19	M12	9.5	45	-	0.80
BT30-FMA25.4-60	1	25.4	60	19	M12	9.5	45	-	0.80
BT40-FMA25.4-45	1	25.4	45	19	M12	9.5	55	-	1.50
BT40-FMA25.4-60	1	25.4	60	19	M12	9.5	55	-	2.00
BT40-FMA25.4-75	1	25.4	75	19	M12	9.5	55	57	2.15
BT40-FMA25.4-90	1	25.4	90	19	M12	9.5	55	57	2.20
BT40-FMA25.4-105	1	25.4	105	19	M12	9.5	56	58	2.60
BT40-FMA25.4-125	1	25.4	125	19	M12	9.5	56	58	3.20
BT40-FMA25.4-150	1	25.4	150	19	M12	9.5	56	58	3.80
BT40-FMA25.4-200	1	25.4	200	19	M12	9.5	56	58	4.97
BT40-FMA31.75-45	1	31.75	45	21	M12	12.7	60	-	1.70
BT40-FMA31.75-60	1	31.75	60	21	M12	12.7	60	-	2.30
BT40-FMA31.75-75	1	31.75	75	21	M12	12.7	60	-	2.45
BT40-FMA31.75-90	1	31.75	90	21	M12	12.7	60	-	2.70
BT40-FMA31.75-105	1	31.75	105	21	M12	12.7	60	-	3.30
BT40-FMA31.75-125	1	31.75	125	21	M12	12.7	60	-	3.51
BT40-FMA31.75-150	1	31.75	150	21	M12	12.7	60	-	4.44
BT40-FMA38.1-60	1	38.1	60	23	M16	15.9	78	-	2.50
BT50-FMA25.4-45	1	25.4	45	19	M12	9.5	63	-	4.00
BT50-FMA25.4-60	1	25.4	60	19	M12	9.5	58	-	4.50
BT50-FMA25.4-75	1	25.4	75	19	M12	9.5	58	-	4.50
BT50-FMA25.4-90	1	25.4	90	19	M12	9.5	58	-	5.00
BT50-FMA25.4-105	1	25.4	105	19	M12	9.5	60	-	5.20
BT50-FMA25.4-125	1	25.4	125	19	M12	9.5	60	-	5.60
BT50-FMA25.4-150	1	25.4	150	19	M12	9.5	60	-	6.30
BT50-FMA25.4-175	1	25.4	175	19	M12	9.5	60	-	6.80
BT50-FMA25.4-200	1	25.4	200	19	M12	9.5	59	61	6.30
BT50-FMA25.4-225	1	25.4	225	19	M12	9.5	59	61	6.80

Model No.	Fig	Ød (mm)	L (mm)	L1 (mm)	G	W (mm)	ØD (mm)	ØD1 (mm)	Weight (kgs)
BT50-FMA25.4-250	1	25.4	250	19	M12	9.5	59	61	7.10
BT50-FMA25.4-275	1	25.4	275	19	M12	9.5	59	61	8.01
BT50-FMA25.4-300	1	25.4	300	19	M12	9.5	59	61	9.30
BT50-FMA25.4-350	1	25.4	350	19	M12	9.5	59	61	10.20
BT50-FMA25.4-400	1	25.4	400	19	M12	9.5	59	61	11.20
BT50-FMA25.4-450	1	25.4	450	19	M12	9.5	59	61	12.96
BT50-FMA25.4-500	1	25.4	500	19	M12	9.5	59	61	12.21
BT50-FMA25.4-600	1	25.4	600	19	M12	9.5	59	61	14.01
BT50-FMA31.75-45	1	31.75	45	21	M16	12.7	76	-	4.20
BT50-FMA31.75-75	1	31.75	75	21	M16	12.7	70	-	5.00
BT50-FMA31.75-90	1	31.75	90	21	M16	12.7	70	-	5.50
BT50-FMA31.75-105	1	31.75	105	21	M16	12.7	70	-	5.70
BT50-FMA31.75-125	1	31.75	125	21	M16	12.7	71	73	6.50
BT50-FMA31.75-150	1	31.75	150	21	M16	12.7	71	73	6.90
BT50-FMA31.75-175	1	31.75	175	21	M16	12.7	71	73	8.28
BT50-FMA31.75-200	1	31.75	200	21	M16	12.7	71	73	7.70
BT50-FMA31.75-225	1	31.75	225	21	M16	12.7	70	73	9.68
BT50-FMA31.75-250	1	31.75	250	21	M16	12.7	72	74	10.30
BT50-FMA31.75-275	1	31.75	275	21	M16	12.7	82	86	9.52
BT50-FMA31.75-300	1	31.75	300	21	M16	12.7	82	86	11.40
BT50-FMA31.75-325	1	31.75	325	21	M16	12.7	82	86	10.71
BT50-FMA31.75-350	1	31.75	350	21	M16	12.7	82	86	13.60
BT50-FMA31.75-375	1	31.75	375	21	M16	12.7	82	86	12.11
BT50-FMA31.75-400	1	31.75	400	21	M16	12.7	82	86	12.36
BT50-FMA31.75-450	1	31.75	450	21	M16	12.7	82	86	13.56
BT50-FMA31.75-500	1	31.75	500	21	M16	12.7	80	85	14.16
BT50-FMA31.75-600	1	31.75	600	21	M16	12.7	80	85	16.53
BT50-FMA38.1-45	1	38.1	45	23	M16	15.9	85	-	4.50
BT50-FMA38.1-75	1	38.1	75	23	M16	15.9	85	-	5.30
BT50-FMA38.1-105	1	38.1	105	23	M16	15.9	85	-	7.10
BT50-FMA38.1-125	1	38.1	125	23	M16	15.9	82	85	8.30
BT50-FMA38.1-150	1	38.1	150	23	M16	15.9	82	85	8.70
BT50-FMA38.1-200	1	38.1	200	23	M16	15.9	82	85	10.90
BT50-FMA50.8-45	1	50.8	45	24	M16	19	97	-	6.50
BT50-FMA50.8-75	1	50.8	75	24	M16	19	97	-	7.00
BT50-FMA50.8-105	1	50.8	105	24	M16	19	97	-	10.30
BT50-FMA50.8-125	1	50.8	125	24	M16	19	97	-	9.32
BT50-FMA50.8-150	1	50.8	150	24	M16	19	97	-	10.72
BT50-FMA50.8-200	1	50.8	200	24	M16	19	100	-	11.20
BT50-FMA50.8-250	1	50.8	250	24	M16	19	100	-	12.00
BT50-FMA50.8-300	1	50.8	300	24	M16	19	100	-	13.51
BT50-FMA47.625-75	2	47.625	75	32	M16	25.4	128	-	7.00

BT FACE MILL B TYPE / FMB
BT 平面銑刀柄

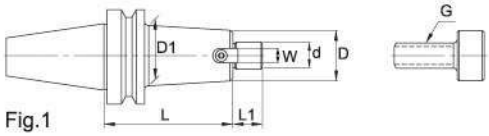


Fig.1

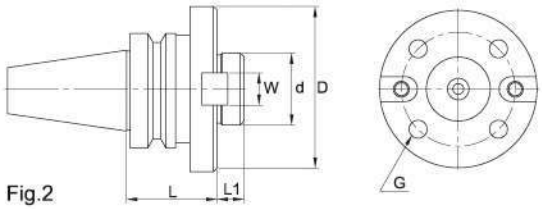


Fig.2



Model No.	Fig	L (mm)	L1 (mm)	d (mm)	D (mm)	D1 (mm)	W (mm)	G	Weight (kgs)
BT30-FMB16-45	1	45	17	16	32	-	8	M8	0.60
BT30-FMB22-45	1	45	18	22	45	-	10	M10	0.70
BT30-FMB22-60	1	60	18	22	45	-	10	M10	0.95
BT30-FMB27-45	1	45	20	27	45	-	12	M12	0.80
BT30-FMB27-60	1	60	20	27	45	-	12	M12	1.11
BT40-FMB22-45	1	45	18	22	45	-	10	M10	1.40
BT40-FMB22-60	1	60	18	22	45	-	10	M10	1.60
BT40-FMB22-75	1	75	18	22	45	48	10	M10	1.75
BT40-FMB22-90	1	90	18	22	47	50	10	M10	2.10
BT40-FMB22-105	1	105	18	22	47	50	10	M10	2.40
BT40-FMB22-125	1	125	18	22	47	50	10	M10	2.60
BT40-FMB22-150	1	150	18	22	47	49	10	M10	2.80
BT40-FMB22-200	1	200	18	22	47	49	10	M10	3.50
BT40-FMB27-45	1	45	20	27	55	-	12	M12	1.10
BT40-FMB27-60	1	60	20	27	55	-	12	M12	1.20
BT40-FMB27-75	1	75	20	27	58	60	12	M12	2.15
BT40-FMB27-90	1	90	20	27	58	60	12	M12	2.60
BT40-FMB27-105	1	105	20	27	58	60	12	M12	3.00
BT40-FMB27-150-LS	1	150	20	27	58	-	12	M12	3.76
BT40-FMB32-45	1	45	21	32	60	-	14	M16	1.80
BT40-FMB32-60	1	60	21	32	60	-	14	M16	2.10
BT40-FMB32-75	1	75	21	32	60	-	14	M16	2.25
BT40-FMB32-90	1	90	21	32	60	-	14	M16	3.00
BT40-FMB32-105	1	105	21	32	60	-	14	M16	3.30
BT40-FMB32-150	1	150	21	43	76	-	14	M16	4.29
BT40-FMB40-60	1	60	21	40	78	-	15.9	M16	2.70
BT50-FMB16-125	1	125	17	16	38	-	8	M8	4.52
BT50-FMB16-150	1	150	17	16	38	-	8	M8	4.73
BT50-FMB16-200	1	200	17	16	38	-	8	M8	5.24
BT50-FMB16-250	1	250	17	16	38	-	8	M8	5.67
BT50-FMB22-60	1	60	18	22	45	-	10	M10	4.00
BT50-FMB22-75	1	75	18	22	45	48	10	M10	4.30
BT50-FMB22-90	1	90	18	22	45	-	10	M10	4.60
BT50-FMB22-105	1	105	18	22	47	49	10	M10	5.00

BT FACE MILL B TYPE / FMB
BT 平面銑刀柄

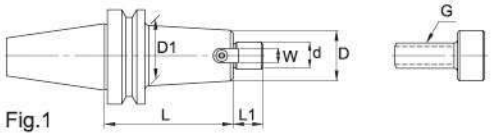


Fig.1

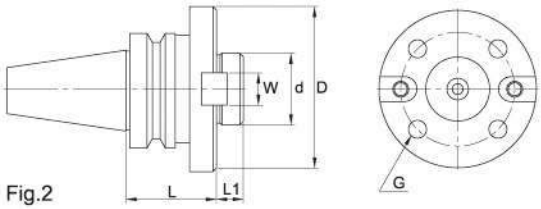


Fig.2



Model No.	Fig	L (mm)	L1 (mm)	d (mm)	D (mm)	D1 (mm)	W (mm)	G	Weight (kgs)
BT50-FMB22-125	1	125	18	22	47	49	10	M10	5.20
BT50-FMB22-150	1	150	18	22	47	49	10	M10	5.80
BT50-FMB22-175	1	175	18	22	47	49	10	M10	6.00
BT50-FMB22-200	1	200	18	22	47	49	10	M10	6.30
BT50-FMB22-225	1	225	18	22	47	49	10	M10	6.50
BT50-FMB22-250	1	250	18	22	47	49	10	M10	8.00
BT50-FMB22-300	1	300	18	22	47	49	10	M10	7.00
BT50-FMB22-350	1	350	18	22	47	49	10	M10	7.70
BT50-FMB22-400	1	400	18	22	45	50	10	M10	8.30
BT50-FMB22-450	1	450	18	22	45	50	10	M10	9.04
BT50-FMB27-45	1	45	20	27	70	-	12	M12	4.10
BT50-FMB27-60	1	60	20	27	60	-	12	M12	4.60
BT50-FMB27-75	1	75	20	27	60	-	12	M12	4.70
BT50-FMB27-90	1	90	20	27	60	63	12	M12	5.40
BT50-FMB27-105	1	105	20	27	60	62	12	M12	5.50
BT50-FMB27-125	1	125	20	27	60	63	12	M12	5.90
BT50-FMB27-150	1	150	20	27	60	63	12	M12	6.70
BT50-FMB27-200	1	200	20	27	60	62	12	M12	8.90
BT50-FMB27-250	1	250	20	27	60	65	12	M12	11.00
BT50-FMB27-300	1	300	20	27	60	62	12	M12	9.85
BT50-FMB32-60	1	60	21	32	70	-	14	M16	4.62
BT50-FMB32-75	1	75	21	32	70	-	14	M16	5.30
BT50-FMB32-90	1	90	21	32	70	-	14	M16	5.80
BT50-FMB32-105	1	105	21	32	70	73	14	M16	6.30
BT50-FMB32-125	1	125	21	32	70	73	14	M16	6.72
BT50-FMB32-150	1	150	21	32	70	73	14	M16	8.30
BT50-FMB32-200	1	200	21	32	70	73	14	M16	9.70
BT50-FMB32-250	1	250	21	32	72	74	14	M16	8.31
BT50-FMB40-60	1	60	21	40	80	-	16	M16	5.07
BT50-FMB40-75	1	75	21	40	80	-	16	M16	5.90
BT50-FMB40-75-F	2	75	21	40	90	-	16	M12	6.09
BT50-FMB40-90	1	90	21	40	80	-	16	M16	6.24
BT50-FMB40-105	1	105	21	40	80	-	16	M16	6.90
BT50-FMB40-125	1	125	21	40	81	85	16	M16	7.82
BT50-FMB40-150	1	150	21	40	81	85	16	M16	8.60
BT50-FMB60-75	2	75	32	60	128	-	25.4	M16	7.30

NT FACE MILL A TYPE / FMA / FMB
NT 平面銑刀柄

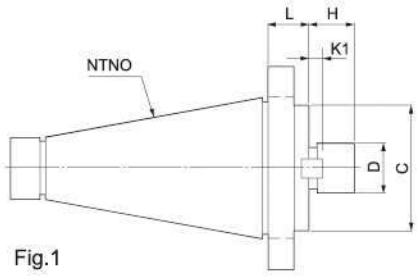


Fig.1



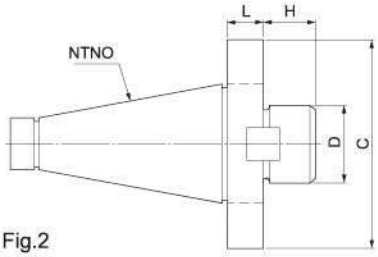
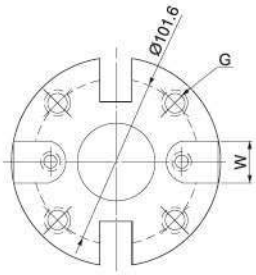


Fig.2



Model No.	Fig	Cutter Diameter	D (mm)	L (mm)	H (mm)	W (mm)	G	Weight (kgs)
NT30-FMA25.4-20	1	76	25.4	20	20	9.5	M12	0.55
NT30-FMA31.75-15	1	100	31.75	15	22	12.7	M12	0.75
NT30-FMA38.1-20	1	125	38.1	20	28	15.9	M16	2.10
NT40-FMA25.4-20	1	76	25.4	20	20	9.5	M12	1.45
NT40-FMA31.75-20	1	100	31.75	20	22	12.7	M12	1.75
NT40-FMA38.1-20	1	125	38.1	20	28	15.9	M16	2.00
NT40-FMA50.8-20	1	150	50.8	20	28	19.05	M16	2.55
NT40-FMA47.625-20	2	200	47.625	20	33	25.4	-	3.50
NT50-FMA25.4-20	1	76	25.4	20	20	9.5	M12	3.30
NT50-FMA31.75-20	1	100	31.75	20	22	12.7	M12	3.40
NT50-FMA38.1-20	1	125	38.1	20	28	15.9	M16	3.60
NT50-FMA50.8-20	1	150	50.8	20	28	19.05	M16	3.90
NT50-FMA47.625-20	2	200	47.625	20	33	25.4	-	4.20
NT30-FMB22-20	1	60	22	20	18	10	M10	0.40
NT30-FMB27-15	1	80	27	15	20	12	M12	0.50
NT30-FMB32-15	1	100	32	15	20	14	M16	0.70
NT40-FMB22-20	1	60	22	20	18	10	M10	0.98
NT40-FMB27-20	1	80	27	20	20	12	M12	1.00
NT40-FMB32-20	1	100	32	20	20	14	M16	1.40
NT40-FMB40-20	1	125	40	20	22	16	M16	1.75
NT40-FMB40F-20	2	150	40	20	22	16	-	3.20
NT40-FMB60-20	2	200	60	20	30	25.4	-	3.80
NT50-FMB22-20	1	60	22	20	18	10	M10	3.20
NT50-FMB27-20	1	80	27	20	20	12	M12	3.30
NT50-FMB32-20	1	100	32	20	20	14	M16	3.40
NT50-FMB40-20	1	125	40	20	22	16	M16	3.90
NT50-FMB40F-20	2	150	40	20	22	16	-	4.50
NT50-FMB60-20	2	200	60	20	30	25.4	-	4.80

SK FACE MILL ARBOR / FMA / FMB
SK 平面銑刀柄

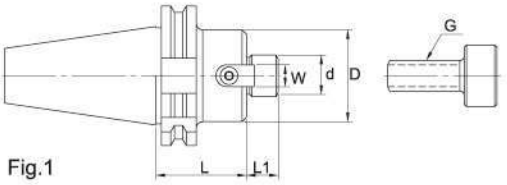


Fig.1

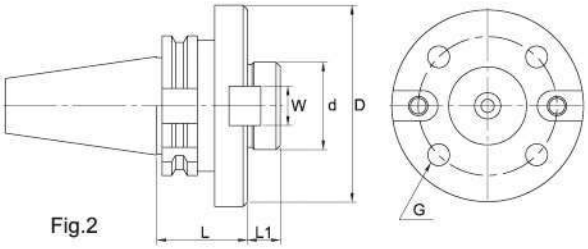


Fig.2



Model No.	Fig	L (mm)	L1 (mm)	Ød (mm)	ØD (mm)	W (mm)	G	Weight (kgs)
SK40-FMA25.4-55	1	55	19	25.4	55	9.5	M12	1.63
SK40-FMA31.75-60	1	60	21	31.75	60	12.7	M12	6.96
SK50-FMA31.75-150	1	150	21	31.75	70	12.7	M12	8.53
SK50-FMA31.75-200	1	200	21	31.75	70	12.7	M12	7.17
SK50-FMA47.625-75	2	75	32	47.625	128	25.4	M16	7.17

Model No.	Fig	L (mm)	L1 (mm)	Ød (mm)	ØD (mm)	W (mm)	G	Weight (kgs)
SK40-FMB16-40	1	40	17	16	38	8	M8	1.10
SK40-FMB22-40	1	40	18	22	45	10	M10	1.19
SK40-FMB22-100	1	100	18	22	45	10	M10	2.00
SK40-FMB27-55	1	55	20	27	55	12	M12	1.66
SK40-FMB32-60	1	60	21	32	60	14	M16	2.14
SK40-FMB40-60	1	60	21	40	78	16	M16	2.62
SK40-FMB40-60-F	2	60	21	40	78	16	M12	2.60
SK50-FMB16-40	1	40	17	16	-	8	M8	3.12
SK50-FMB22-40	1	40	18	22	45	10	M10	3.04
SK50-FMB22-75	1	75	18	22	45	10	M10	3.55
SK50-FMB27-40	1	40	20	27	60	12	M12	3.47
SK50-FMB27-75	1	75	20	27	60	12	M12	4.13
SK50-FMB32-60	1	60	21	32	70	14	M16	4.21
SK50-FMB40-60	1	60	21	40	80	16	M16	4.74

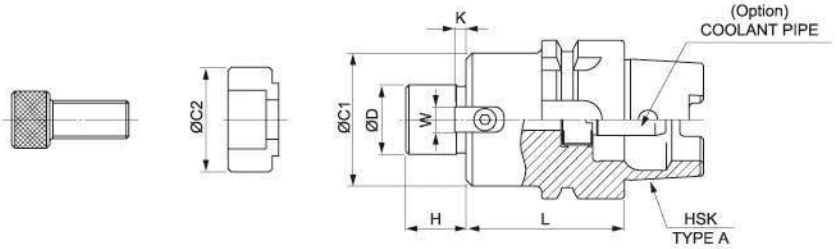
HSK-A FMB FACE MILL ARBOR (METRIC SIZE)
HSK-A FMB 面銑刀用刀把

APPLICATION



面銑
FACE MILLING

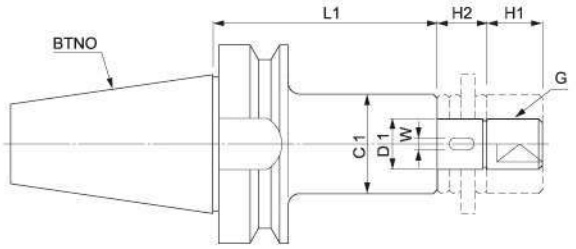




Model No.		ØD (mm)	ØC1 (mm)	ØC2 (mm)	L (mm)	H (mm)	K (mm)	W (mm)
HSK50A	FMB16-045S★	16	32	20	45	17	3.8	8
HSK50A	FMB22-050	22	48	28	50	18	5	10
HSK50A	FMB22-050S★	22	40	28	50	18	5	10
HSK50A	FMB27-055	27	58	33	55	20	6	12
HSK50A	FMB27-055S★	27	48	33	55	20	6	12
HSK63A	FMB16-045S★	16	32	20	45	17	3.8	8
HSK63A	FMB22-050	22	48	28	50	18	5	10
HSK63A	FMB22-050S★	22	40	28	50	18	5	10
HSK63A	FMB27-055	27	58	33	55	20	6	12
HSK63A	FMB27-055S★	27	48	33	55	20	6	12
HSK63A	FMB32-055	32	78	40	55	22	7	14
HSK63A	FMB32-055S★	32	58	40	55	22	7	14
HSK100A	FMB22-075	22	48	28	50	18	5	10
HSK100A	FMB27-075	27	58	33	55	20	6	12
HSK100A	FMB32-075	32	78	40	55	22	7	14
HSK100A	FMB40-075	40	89	50	60	26	8.5	15.9

★配合SANDVIK面銑刀之刀把規格尺寸。 ★ Apply to SANDVIK'S face miller.

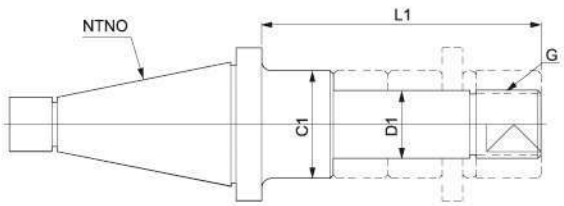
BT SIDE CUTTER ARBOR / SCA
BT 側銑刀架





Model No.	ØD1 (mm)	ØC1 (mm)	W (mm)	L1 (mm)	H2 (mm)	H1 (mm)	G	Weight (kgs)
BT40-SCA25.4-75	25.4	40	6.35	75	25	27	1" x W16	1.70
BT40-SCA25.4-120	25.4	40	6.35	120	25	27	1" x W16	2.30
BT40-SCA25.4-150	25.4	40	6.35	150	25	27	1" x W16	2.65
BT40-SCA25.4-180	25.4	40	6.35	180	25	27	1" x W16	4.70
BT50-SCA25.4-90	25.4	40	6.35	90	25	27	1" x W16	5.10
BT50-SCA25.4-135	25.4	40	6.35	135	25	27	1" x W16	5.70
BT50-SCA25.4-150	25.4	40	6.35	150	25	27	1" x W16	5.72
BT50-SCA25.4-180	25.4	40	6.35	180	25	27	1" x W16	6.28

NT SIDE CUTTER ARBOR / SCA
NT 側銑刀架

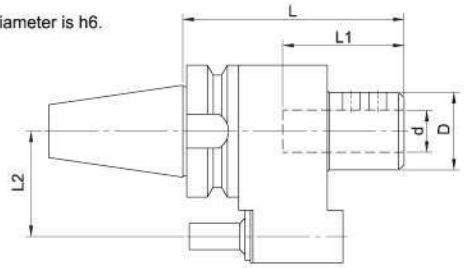




Model No.	ØD1 (mm)	ØC1 (mm)	G	L1 (mm)
NT30-SCA3"	25.4	40	1" x W16	3", 4", 5", 6"
NT40-SCA3"	25.4	40	1" x W16	3", 4", 5", 6", 7", 8"
NT50-SCA3"	25.4	40	1" x W16	3", 4", 5", 6", 7", 8"

OSL OIL - FEED HOLDER
OSL 油路刀把

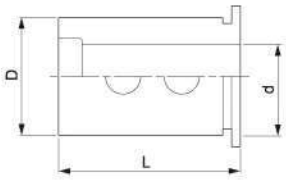
- Used for machines w/o center or side coolant and achieve coolant through tools.
- The tolerance requirement of tool shank diameter is h6.
- Max. revolution: BT40: 8000 rpm
  BT30: 10000 rpm
- 適用於沒有中心出水或側邊給水的機台，使切削液可由刀具出水。
- 請搭配使用柄徑公差為h6的刀具。
- 最高轉速：BT40: 8000rpm
  BT30: 10000rpm





Model No.	d (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	Weight (kgs)
BT30-OLT25-130	LT25	58	130	-	55	2.58
BT40-OSL20-165	20	50	165	50	65	3.80
BT40-OSL25-165	25	50	165	56	65	4.00
BT40-OSL32-165	32	50	165	60	65	4.10
BT50-OSL16-165	16	48	165	48	80	7.10
BT50-OSL20-165	20	48	165	50	80	7.20
BT50-OSL25-165	25	55	165	56	80	7.50
BT50-OSL32-165	32	60	165	60	80	7.60
BT50-OSL40-170	40	60	170	70	80	7.80
BT50-OSL40(B)-170	40	90	170	70	80	9.18
BT40-OLR32-150	LR32	50	150	-	65	4.08
BT50-OLR32-160	LR32	50	160	-	80	7.72

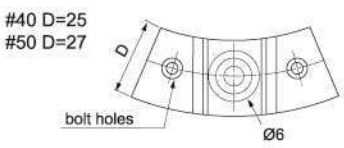
OSL STRAIGHT SLEEVES
OSL 套筒

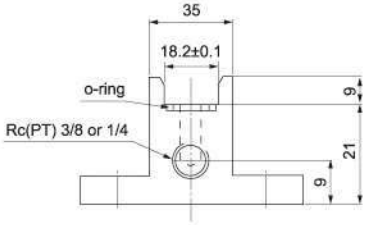




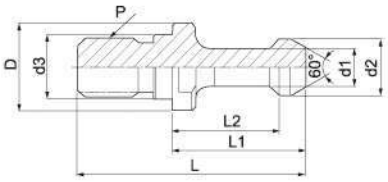
Model No.	D (mm)	d (mm)	L (mm)	N.W. (kgs)
OSL32-10	32	10	60	0.4
OSL32-12	32	12	60	0.4
OSL32-16	32	16	60	0.5
OSL32-20	32	20	60	0.4
OSL32-25	32	25	60	0.3
OSL40-20	40	20	65	0.8
OSL40-25	40	25	65	0.6
OSL40-32	40	32	65	0.5

POSITIONING BLOCK
止動塊





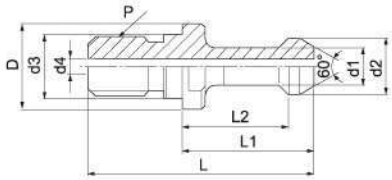
BT PULL STUD
BT 拉桿/拉頭





Model No.	D (mm)	d1 (mm)	d2 (mm)	d3 (mm)	L (mm)	L1 (mm)	L2 (mm)	SW (mm)	P	Package	Weight (kgs)
BT30-45°	16.5	7	11	12.5	43	23	18	13	M12 x 1.75	50/100 pcs	0.04
BT30-60°	16.5	7	11	12.5	43	23	18	13	M12 x 1.75	50/100 pcs	0.04
BT30-90°	16.5	7	11	12.5	43	23	18	13	M12 x 1.75	50/100 pcs	0.04
BT40-45°	23	10	15	17	60	35	28	19	M16 x 2.0	50/100 pcs	0.11
BT40-60°	23	10	15	17	60	35	28	19	M16 x 2.0	50/100 pcs	0.10
BT40-90°	23	10	15	17	60	35	28	19	M16 x 2.0	50/100 pcs	0.10
BT50-45°	38	17	23	25	85	45	35	30	M24 x 3.0	25/50 pcs	0.30
BT50-60°	38	17	23	25	85	45	35	30	M24 x 3.0	25/50 pcs	0.30
BT50-90°	38	17	23	25	85	45	35	30	M24 x 3.0	25/50 pcs	0.30

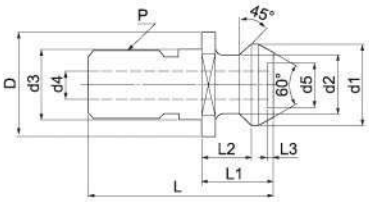
BT PULL STUD-CTS (COOLANT THROUGH SPINDLE)
BT 拉桿/拉頭-中心出水





Model No.	D (mm)	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	L (mm)	L1 (mm)	L2 (mm)	SW (mm)	P	Package	Weight (kgs)
BT30-45° (2x3)	16.5	7	11	12.5	2 x 3	43	23	18	13	M12 x 1.75	50/100 pcs	0.03
BT30-60° (2x3)	16.5	7	11	12.5	2 x 3	43	23	18	13	M12 x 1.75	50/100 pcs	0.03
BT30-90° (2x3)	16.5	7	11	12.5	2 x 3	43	23	18	13	M12 x 1.75	50/100 pcs	0.03
BT40-45° (4)	23	10	15	17	4	60	35	28	19	M16 x 2.0	50/100 pcs	0.08
BT40-60° (4)	23	10	15	17	4	60	35	28	19	M16 x 2.0	50/100 pcs	0.08
BT40-90° (4)	23	10	15	17	4	60	35	28	19	M16 x 2.0	50/100 pcs	0.08
BT40-45° (5)	23	10	15	17	5	60	35	28	19	M16 x 2.0	50/100 pcs	0.08
BT40-60° (5)	23	10	15	17	5	60	35	28	19	M16 x 2.0	50/100 pcs	0.08
BT50-45° (7)	38	17	23	25	7	85	45	35	30	M24 x 3.0	25/50 pcs	0.28
BT50-60° (7)	38	17	23	25	7	85	45	35	30	M24 x 3.0	25/50 pcs	0.28
BT50-90° (7)	38	17	23	25	7	85	45	35	30	M24 x 3.0	25/50 pcs	0.28

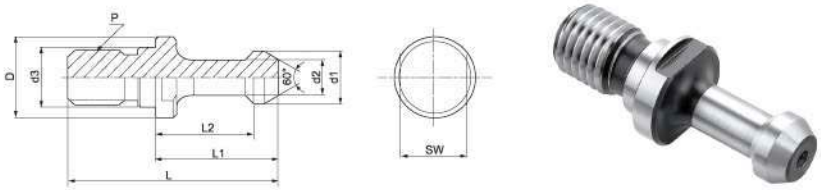
MAZAK PULL STUD
MAZAK 拉桿/拉頭





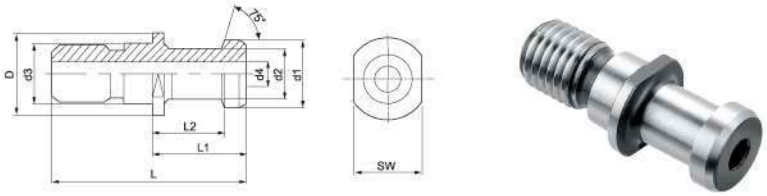
Model No.	D (mm)	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	d5 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	SW (mm)	P	Package	Weight (kgs)
MAZAK-BT40	22	18.8	12.45	17	7	-	44.1	19.1	14	-	19	M16 x 2.0	50 pcs	0.50
MAZAK-BT50	37	28.95	20.83	25	10	16	65.2	25.2	17.58	1.8	30	M24 x 3.0	25 pcs	0.19
MAZAK-CAT40	22	18.8	12.45	17	7	-	41.1	16.1	11	-	19	M16 x 2.0	50 pcs	0.50

BT PULL STUD
強化 BT 拉桿/拉頭



Model No.	D (mm)	d1 (mm)	d2 (mm)	d3 (mm)	L (mm)	L1 (mm)	L2 (mm)	SW (mm)	P	Package	Weight (kgs)
BT30-45° S	16.5	7	11	12.5	43	23	18	13	M12 x 1.75	50 pcs	0.03
BT30-60° S	16.5	7	11	12.5	43	23	18	13	M12 x 1.75	50 pcs	0.03
BT40-45° S	23	10	15	17	60	35	28	19	M16 x 2.0	50 pcs	0.07
BT40-60° S	23	10	15	17	60	35	28	19	M16 x 2.0	50 pcs	0.07

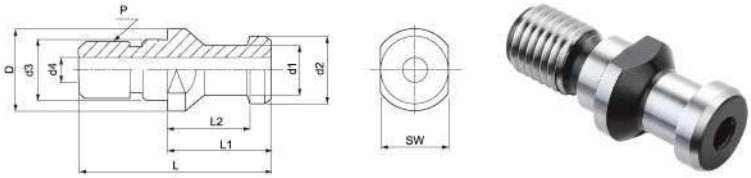
ISO PULL STUD
ISO 拉桿/拉頭



Model No.	D (mm)	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	L (mm)	L1 (mm)	L2 (mm)	SW (mm)	P	Package	Weight (kgs)
ISO40-A	23	19	14	17	7	54	26	20	19	M16 x 2.0	50/100 pcs	0.07
ISO50-A	36	28	21	25	11.5	74	34	25	30	M24 x 3.0	25/50 pcs	0.2
ISO40-B	22.5	18.95	12.95	17	7.3	44.5	16.4	11.15	19	M16 x 2.0	50/100 pcs	0.05
ISO50-B	37	29.1	19.6	25	11.5	65.5	25.5	17.95	30	M24 x 3.0	25/50 pcs	0.18

DIN PULL STUD A TYPE
DIN 拉桿/拉頭 A 型

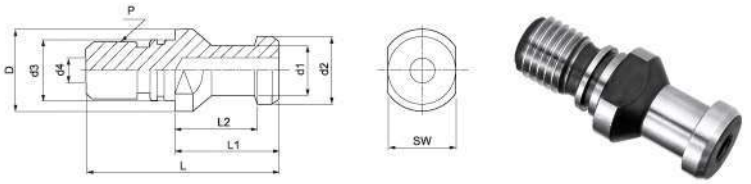
- 全通孔，有中心出水。
- Full through bore, with CTS.



Model No.	D (mm)	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	L (mm)	L1 (mm)	L2 (mm)	SW (mm)	P	Package	Weight (kgs)
DIN30-A	17	9	13	13	3	44	24	19	14	M12 x 1.75	100 pcs	0.036
DIN40-A	23	14	19	17	7	54	26	20	19	M16 x 2.0	100 pcs	0.07
DIN40-A-L	23	14	19	17	7	54	29	23	19	M16 x 2.0	100 pcs	0.073
DIN50-A	36	21	28	25	11.5	74	34	25	30	M24 x 3.0	50 pcs	0.22

DIN PULL STUD B TYPE
DIN 拉桿/拉頭 B 型

- 半通孔，無中心出水。
- Half through bore, without CTS.



Model No.	D (mm)	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	L (mm)	L1 (mm)	L2 (mm)	SW (mm)	P	Package	Weight (kgs)
DIN30-B	17	9	13	13	-	44	24	19	14	M12 x 1.75	100 pcs	0.035
DIN40-B	23	14	19	17	7	54	26	20	19	M16 x 2.0	100 pcs	0.077
DIN40-B-L	23	14	19	17	7	54	29	23	19	M16 x 2.0	100 pcs	0.083
DIN50-B	36	21	28	25	11.5	74	34	25	30	M24 x 3.0	50 pcs	0.24

RBH®

銑刀系統
CUTTING SYSTEM

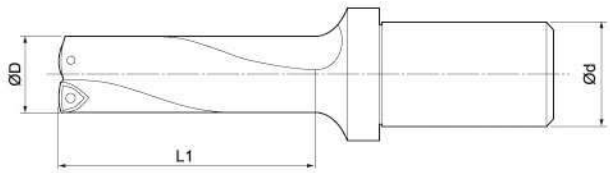
捨棄式快速鑽頭	THROW-AWAY HIGH SPEED DRILL
快削型端銑刀	HIGH-SPEED ROUNGH ENDMILL
直角端銑刀	TPR SHOULDER ENDMILL
高速平面殼型銑刀	HIGH-SPEED FACE MILLING CUTTER
平面銑刀	FACE MILLING CUTTER
直角平面銑刀	TPR SHOULDER FACE MILLING CUTTER
強力平面銑刀	POWERFUL FACE MILLING CUTTER
CRT型R角平面銑刀	RADIUS FACE MILLING CUTTER
CRT型R角端銑刀	CRS RADIUS ENDMILL
倒角刀	CHAMFERING ENDMILL
螺絲頭沈孔銑刀	BOLT COUNTERSINK ENDMILL

PROFESSIONAL CUTTING SYSTEM

CUTTING SYSTEM



THROW-AWAY HIGH SPEED DRILL / 2D
WC 刀片/捨棄式快速鑽頭 (2倍長)

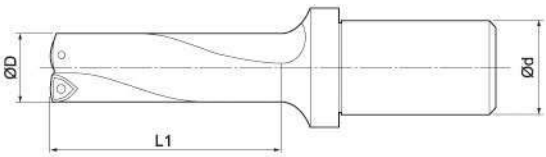




Model No.	Dimensions (mm)			Teeth	Inserts Size	Screw	Wrench	Weight (kgs)
	D	d	L1					
EXD-15X2-25	15	25	30	2	WCMX0302	SCR-EXD2.5	T8	0.35
EXD-16X2-25	16	25	32	2	WCMX0302	SCR-EXD2.5	T8	0.35
EXD-17X2-25	17	25	34	2	WCMX0302	SCR-EXD2.5	T8	0.36
EXD-18X2-25	18	25	36	2	WCMX0302	SCR-EXD2.5	T8	0.37
EXD-19X2-25	19	25	38	2	WCMX0302	SCR-EXD2.5	T8	0.38
EXD-20X2-25	20	25	40	2	WCMX0402	SCR-EXD2.5	T8	0.39
EXD-21X2-32	21	32	42	2	WCMX0402	SCR-EXD2.5	T8	0.59
EXD-22X2-32	22	32	44	2	WCMX0402	SCR-EXD2.5	T8	0.61
EXD-23X2-32	23	32	46	2	WCMX0402	SCR-EXD2.5	T8	0.61
EXD-24X2-32	24	32	48	2	WCMX0402	SCR-EXD2.5	T8	0.62
EXD-25X2-32	25	32	50	2	WCMX0402	SCR-EXD2.5	T8	0.65
EXD-26X2-32	26	32	52	2	WCMX0503	SCR-EXD3	T8	0.71
EXD-27X2-32	27	32	54	2	WCMX0503	SCR-EXD3	T8	0.74
EXD-28X2-32	28	32	56	2	WCMX0503	SCR-EXD3	T8	0.77
EXD-29X2-32	29	32	58	2	WCMX0503	SCR-EXD3	T8	0.78
EXD-30X2-32	30	32	60	2	WCMX0503	SCR-EXD3	T8	0.84
EXD-31X2-32	31	32	62	2	WCMX06T3	SCR-EXD3.5	T15	0.91
EXD-32X2-32	32	32	64	2	WCMX06T3	SCR-EXD3.5	T15	0.99
EXD-33X2-32	33	32	66	2	WCMX06T3	SCR-EXD3.5	T15	1.18
EXD-34X2-32	34	32	68	2	WCMX06T3	SCR-EXD3.5	T15	1.01
EXD-35X2-32	35	32	70	2	WCMX06T3	SCR-EXD3.5	T15	0.97

※建議使用刀片 Insert: ISO Code

THROW-AWAY HIGH SPEED DRILL / 3D
WC 刀片/捨棄式快速鑽頭 (3倍長)

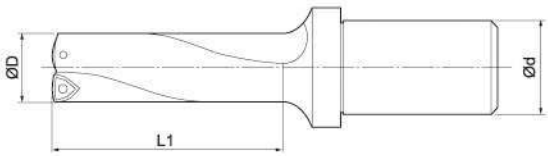




Model No.	Dimensions (mm)			Teeth	Inserts Size	Screw	Wrench	Weight (kgs)
	D	d	L1					
EXD-14X3-25	14	25	42	2	WCMX0302	SCR-EXD2.5	T8	0.32
EXD-15X3-25	15	25	45	2	WCMX0302	SCR-EXD2.5	T8	0.34
EXD-16X3-25	16	25	48	2	WCMX0302	SCR-EXD2.5	T8	0.34
EXD-17X3-25	17	25	51	2	WCMX0302	SCR-EXD2.5	T8	0.35
EXD-18X3-25	18	25	54	2	WCMX0302	SCR-EXD2.5	T8	0.35
EXD-19X3-25	19	25	57	2	WCMX0302	SCR-EXD2.5	T8	0.36
EXD-20X3-25	20	25	60	2	WCMX0302	SCR-EXD2.5	T8	0.39
EXD-21X3-32	21	32	63	2	WCMX0402	SCR-EXD2.5	T8	0.59
EXD-22X3-32	22	32	66	2	WCMX0402	SCR-EXD2.5	T8	0.61
EXD-23X3-32	23	32	69	2	WCMX0402	SCR-EXD2.5	T8	0.61
EXD-24X3-32	24	32	72	2	WCMX0402	SCR-EXD2.5	T8	0.62
EXD-25X3-32	25	32	75	2	WCMX0402	SCR-EXD2.5	T8	0.65
EXD-26X3-32	26	32	78	2	WCMX0503	SCR-EXD3	T8	0.71
EXD-27X3-32	27	32	81	2	WCMX0503	SCR-EXD3	T8	0.74
EXD-28X3-32	28	32	84	2	WCMX0503	SCR-EXD3	T8	0.77
EXD-29X3-32	29	32	87	2	WCMX0503	SCR-EXD3	T8	0.78
EXD-30X3-32	30	32	90	2	WCMX0503	SCR-EXD3	T8	0.84
EXD-31X3-32	31	32	93	2	WCMX06T3	SCR-EXD3.5	T15	0.91
EXD-32X3-32	32	32	96	2	WCMX06T3	SCR-EXD3.5	T15	0.99
EXD-33X3-32	33	32	99	2	WCMX06T3	SCR-EXD3.5	T15	1.18
EXD-34X3-32	34	32	102	2	WCMX06T3	SCR-EXD3.5	T15	1.01
EXD-35X3-32	35	32	105	2	WCMX06T3	SCR-EXD3.5	T15	1.04
EXD-36X3-32	36	32	108	2	WCMX06T3	SCR-EXD3.5	T15	1.12
EXD-37X3-32	37	32	111	2	WCMX06T3	SCR-EXD3.5	T15	1.17
EXD-38X3-32	38	32	114	2	WCMX06T3	SCR-EXD3.5	T15	1.18
EXD-39X3-32	39	32	117	2	WCMX06T3	SCR-EXD3.5	T15	1.25
EXD-41X3-40	41	40	123	2	WCMX06T3	SCR-EXD3.5	T15	1.68
EXD-42X3-40	42	40	126	2	WCMX06T3	SCR-EXD3.5	T15	1.83
EXD-43X3-40	43	40	129	2	WCMX0804	SCR-EXD4	T15	-
EXD-44X3-40	44	40	132	2	WCMX0804	SCR-EXD4	T15	2.05
EXD-45X3-40	45	40	135	2	WCMX0804	SCR-EXD4	T15	2.18
EXD-46X3-40	46	40	138	2	WCMX0804	SCR-EXD4	T15	-
EXD-47X3-40	47	40	141	2	WCMX0804	SCR-EXD4	T15	2.32
EXD-48X3-40	48	40	144	2	WCMX0804	SCR-EXD4	T15	-
EXD-49X3-40	49	40	147	2	WCMX0804	SCR-EXD4	T15	2.51
EXD-50X3-40	50	40	150	2	WCMX0804	SCR-EXD4	T15	-
EXD-51X3-40	51	40	153	2	WCMX0804	SCR-EXD4	T15	-
EXD-52X3-40	52	40	156	2	WCMX0804	SCR-EXD4	T15	-
EXD-53X3-40	53	40	159	2	WCMX0804	SCR-EXD4	T15	-
EXD-54X3-40	54	40	162	2	WCMX0804	SCR-EXD4	T15	-
EXD-55X3-40	55	40	165	2	WCMX06T3	SCR-EXD3.5	T15	-
EXD-56X3-40	56	40	168	2	WCMX06T3	SCR-EXD3.5	T15	-
EXD-57X3-40	57	40	171	2	WCMX06T3	SCR-EXD3.5	T15	-
EXD-58X3-40	58	40	174	2	WCMX06T3	SCR-EXD3.5	T15	-
EXD-59X3-40	59	40	177	2	WCMX06T3	SCR-EXD3.5	T15	-
EXD-60X3-40	60	40	180	2	WCMX06T3	SCR-EXD3.5	T15	-

※建議使用刀片 Insert: ISO Code

THROW-AWAY HIGH SPEED DRILL / 4D
WC 刀片/捨棄式快速鑽頭 (4倍長)

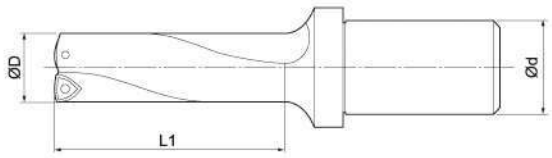




Model No.	Dimensions (mm)			Teeth	Inserts Size	Screw	Wrench	Weight (kgs)
	D	d	L1					
EXD-15X4-25	15	25	60	2	WCMX0302	SCR-EXD2.5	T8	0.36
EXD-16X4-25	16	25	64	2	WCMX0302	SCR-EXD2.5	T8	0.36
EXD-17X4-25	17	25	68	2	WCMX0302	SCR-EXD2.5	T8	0.35
EXD-18X4-25	18	25	72	2	WCMX0302	SCR-EXD2.5	T8	0.38
EXD-19X4-25	19	25	76	2	WCMX0302	SCR-EXD2.5	T8	0.39
EXD-20X4-25	20	25	80	2	WCMX0302	SCR-EXD2.5	T8	0.41
EXD-21X4-32	21	32	84	2	WCMX0402	SCR-EXD2.5	T8	0.44
EXD-22X4-32	22	32	88	2	WCMX0402	SCR-EXD2.5	T8	0.65
EXD-23X4-32	23	32	92	2	WCMX0402	SCR-EXD2.5	T8	0.65
EXD-24X4-32	24	32	96	2	WCMX0402	SCR-EXD2.5	T8	0.72
EXD-25X4-32	25	32	100	2	WCMX0402	SCR-EXD2.5	T8	0.73
EXD-26X4-32	26	32	104	2	WCMX0503	SCR-EXD3	T8	0.78
EXD-27X4-32	27	32	108	2	WCMX0503	SCR-EXD3	T8	0.81
EXD-28X4-32	28	32	112	2	WCMX0503	SCR-EXD3	T8	0.85
EXD-29X4-32	29	32	116	2	WCMX0503	SCR-EXD3	T8	0.84
EXD-30X4-32	30	32	120	2	WCMX0503	SCR-EXD3	T8	0.95
EXD-31X4-32	31	32	124	2	WCMX06T3	SCR-EXD3.5	T15	-
EXD-32X4-32	32	32	128	2	WCMX06T3	SCR-EXD3.5	T15	1.11
EXD-33X4-32	33	32	132	2	WCMX06T3	SCR-EXD3.5	T15	1.08
EXD-34X4-32	34	32	136	2	WCMX06T3	SCR-EXD3.5	T15	1.14
EXD-35X4-32	35	32	140	2	WCMX06T3	SCR-EXD3.5	T15	1.20
EXD-36X4-32	36	32	144	2	WCMX06T3	SCR-EXD3.5	T15	-
EXD-37X4-32	37	32	148	2	WCMX06T3	SCR-EXD3.5	T15	-

※建議使用刀片 Insert: ISO Code

THROW-AWAY HIGH SPEED DRILL / 4D
WC 刀片/捨棄式快速鑽頭 (4倍長)

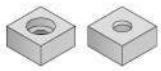


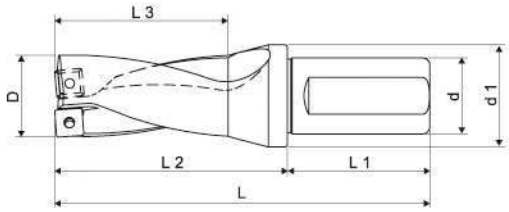


Model No.	Dimensions (mm)			Teeth	Inserts Size	Screw	Wrench	Weight (kgs)
	D	d	L1					
EXD-38X4-32	38	32	152	2	WCMX06T3	SCR-EXD3.5	T15	1.31
EXD-39X4-32	39	32	156	2	WCMX06T3	SCR-EXD3.5	T15	1.42
EXD-40X4-40	40	40	160	2	WCMX06T3	SCR-EXD3.5	T15	2.33
EXD-41X4-40	41	40	164	2	WCMX06T3	SCR-EXD3.5	T15	1.92
EXD-42X4-40	42	40	168	2	WCMX06T3	SCR-EXD3.5	T15	-
EXD-43X4-40	43	40	172	2	WCMX0804	SCR-EXD4	T15	-
EXD-44X4-40	44	40	176	2	WCMX0804	SCR-EXD4	T15	-
EXD-45X4-40	45	40	180	2	WCMX0804	SCR-EXD4	T15	2.56
EXD-46X4-40	46	40	184	2	WCMX0804	SCR-EXD4	T15	-
EXD-47X4-40	47	40	188	2	WCMX0804	SCR-EXD4	T15	2.71
EXD-48X4-40	48	40	192	2	WCMX0804	SCR-EXD4	T15	-
EXD-49X4-40	49	40	196	2	WCMX0804	SCR-EXD4	T15	2.95
EXD-50X4-40	50	40	200	2	WCMX0804	SCR-EXD4	T15	-
EXD-51X4-40	51	40	204	2	WCMX0804	SCR-EXD4	T15	-
EXD-52X4-40	52	40	208	2	WCMX0804	SCR-EXD4	T15	-
EXD-53X4-40	53	40	212	2	WCMX0804	SCR-EXD4	T15	-
EXD-54X4-40	54	40	216	2	WCMX0804	SCR-EXD4	T15	-
EXD-55X4-40	55	40	220	2	WCMX06T3	SCR-EXD3.5	T15	-
EXD-56X4-40	56	40	224	2	WCMX06T3	SCR-EXD3.5	T15	-
EXD-57X4-40	57	40	228	2	WCMX06T3	SCR-EXD3.5	T15	-
EXD-58X4-40	58	40	232	2	WCMX06T3	SCR-EXD3.5	T15	-
EXD-59X4-40	59	40	236	2	WCMX06T3	SCR-EXD3.5	T15	-
EXD-60X4-40	60	40	240	2	WCMX06T3	SCR-EXD3.5	T15	-

※建議使用刀片 Insert: ISO Code

2D HIGH SPEED DRILL
2D 快速鑽頭

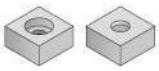


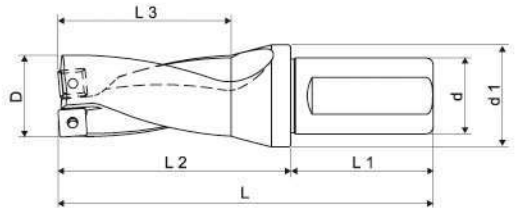




Model No.	Dimensions (mm)							Inserts Size	Screw	Wrench
	D	d	d1	L	L3	L2	L1			
DDR2125-20T2-05	12.5	20	27	94	26	44	50	SPMG050204	TS2003	T6
DDR2130-20T2-05	13	20	27	94	26	44	50	SPMG050204	TS2003	T6
DDR2135-20T2-05	13.5	20	27	96	28	46	50	SPMG050204	TS2003	T6
DDR2140-20T2-05	14	20	27	96	28	46	50	SPMG050204	TS2003	T6
DDR2145-20T2-05	14.5	20	27	99	30	49	50	SPMG050204	TS2003	T6
DDR2150-20T2-05	15	20	27	99	30	49	50	SPMG050204	TS2003	T6
DDR2155-25T2-06	15.5	25	33	108	32	52	56	SPMG060204	TS2205	T6
DDR2160-25T2-06	16	25	33	108	32	52	56	SPMG060204	TS2205	T6
DDR2165-25T2-06	16.5	25	33	110	34	54	56	SPMG060204	TS2205	T6
DDR2170-25T2-06	17	25	33	110	34	54	56	SPMG060204	TS2205	T6
DDR2175-25T2-06	17.5	25	33	113	36	57	56	SPMG060204	TS2205	T6
DDR2180-25T2-06	18	25	33	113	36	57	56	SPMG060204	TS2205	T6
DDR2185-25T2-06	18.5	25	33	115	38	59	56	SPMG060204	TS2205	T6
DDR2190-25T2-06	19	25	33	115	38	59	56	SPMG060204	TS2205	T6
DDR2195-25T2-06	19.5	25	33	119	40	63	56	SPMG060204	TS2205	T6
DDR2200-25T2-06	20	25	33	119	40	63	56	SPMG060204	TS2205	T6
DDR2205-25T2-06	20.5	25	33	121	42	65	56	SPMG060204	TS2205	T6
DDR2210-25T2-06	21	25	33	121	42	65	56	SPMG060204	TS2205	T6
DDR2215-25T2-06	21.5	25	33	123	44	67	56	SPMG060204	TS2205	T6
DDR2220-25T2-07	22	25	33	123	44	67	56	SPMG07T308	TS2511	T6
DDR2225-32T2-07	22.5	32	43	131	46	71	60	SPMG07T308	TS2511	T6
DDR2230-32T2-07	23	32	43	131	46	71	60	SPMG07T308	TS2511	T6
DDR2235-32T2-07	23.5	32	43	134	48	74	60	SPMG07T308	TS2511	T6
DDR2240-32T2-07	24	32	43	134	48	74	60	SPMG07T308	TS2511	T6
DDR2245-32T2-07	24.5	32	43	137	50	77	60	SPMG07T308	TS2511	T6
DDR2250-32T2-07	25	32	43	137	50	77	60	SPMG07T308	TS2511	T6
DDR2255-32T2-07	25.5	32	43	139	52	79	60	SPMG07T308	TS2511	T6
DDR2260-32T2-07	26	32	43	139	52	79	60	SPMG07T308	TS2511	T6

2D HIGH SPEED DRILL
2D 快速鑽頭

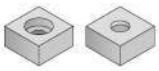


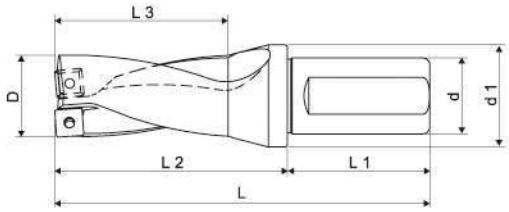




Model No.	Dimensions (mm)							Inserts Size	Screw	Wrench
	D	d	d1	L	L3	L2	L1			
DDR2265-32T2-07	26.5	32	43	142	54	81	60	SPMG07T308	TS2511	T08
DDR2270-32T2-07	27	32	43	142	54	81	60	SPMG07T308	TS2511	T08
DDR2275-32T2-07	27.5	32	43	144	56	84	60	SPMG07T308	TS2511	T08
DDR2280-32T2-09	28	32	43	144	56	84	60	SPMG090408	TS3504	T15
DDR2285-32T2-09	28.5	32	43	146	58	86	60	SPMG090408	TS3504	T15
DDR2290-32T2-09	29	32	43	146	58	86	60	SPMG090408	TS3504	T15
DDR2295-32T2-09	29.5	32	43	148	60	88	60	SPMG090408	TS3504	T15
DDR2300-32T2-09	30	32	43	148	60	88	60	SPMG090408	TS3504	T15
DDR2305-32T2-09	30.5	32	43	150	62	90	60	SPMG090408	TS3504	T15
DDR2310-32T2-09	31	32	43	150	62	90	60	SPMG090408	TS3504	T15
DDR2315-32T2-09	31.5	32	43	152	64	92	60	SPMG090408	TS3504	T15
DDR2320-32T2-09	32	32	43	152	64	92	60	SPMG090408	TS3504	T15
DDR2325-32T2-09	32.5	32	43	154	66	94	60	SPMG090408	TS3504	T15
DDR2330-32T2-09	33	32	43	154	66	94	60	SPMG090408	TS3504	T15
DDR2340-32T2-11	34	32	43	156	68	96	60	SPMG110408	TS4006	T15
DDR2350-32T2-11	35	32	43	158	70	98	60	SPMG110408	TS4006	T15
DDR2360-32T2-11	36	32	43	160	72	100	60	SPMG110408	TS4006	T15
DDR2370-32T2-11	37	32	43	162	74	102	60	SPMG110408	TS4006	T15
DDR2380-32T2-11	38	32	43	164	76	104	60	SPMG110408	TS4006	T15
DDR2390-32T2-11	39	32	43	166	78	106	60	SPMG110408	TS4006	T15
DDR2400-40T2-11	40	40	53	185	80	115	60	SPMG110408	TS4006	T15
DDR2410-40T2-11	41	40	53	187	82	117	60	SPMG110408	TS4006	T15
DDR2420-40T2-14	42	40	53	189	84	119	70	SPMG140512	TS5009	T20
DDR2430-40T2-14	43	40	53	191	86	121	70	SPMG140512	TS5009	T20
DDR2440-40T2-14	44	40	53	193	88	123	70	SPMG140512	TS5009	T20
DDR2450-40T2-14	45	40	53	195	90	125	70	SPMG140512	TS5009	T20
DDR2460-40T2-14	46	40	53	197	92	127	70	SPMG140512	TS5009	T20
DDR2470-40T2-14	47	40	53	199	94	129	70	SPMG140512	TS5009	T20
DDR2480-40T2-14	48	40	53	201	96	131	70	SPMG140512	TS5009	T20
DDR2490-40T2-14	49	40	53	203	98	133	70	SPMG140512	TS5009	T20
DDR2500-40T2-14	50	40	53	205	100	135	70	SPMG140512	TS5009	T20

3D HIGH SPEED DRILL
3D 快速鑽頭

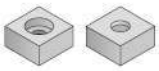


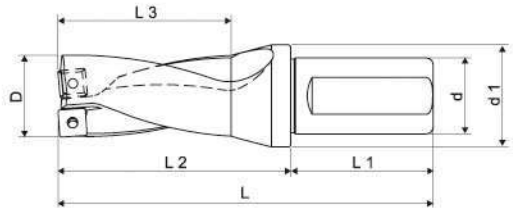




Model No.	Dimensions (mm)							Inserts Size	Screw	Wrench
	D	d	d1	L	L3	L2	L1			
DDR3125-20T2-05	12.5	20	27	107	39	57	50	SPMG050204	TS2003	T6
DDR3130-20T2-05	13	20	27	107	39	57	50	SPMG050204	TS2003	T6
DDR3135-20T2-05	13.5	20	27	110	42	60	50	SPMG050204	TS2003	T6
DDR3140-20T2-05	14	20	27	110	42	60	50	SPMG050204	TS2003	T6
DDR3145-20T2-05	14.5	20	27	114	45	64	50	SPMG050204	TS2003	T6
DDR3150-20T2-05	15	20	27	114	45	64	50	SPMG050204	TS2003	T6
DDR3155-25T2-06	15.5	25	33	124	48	68	56	SPMG060204	TS2205	T6
DDR3160-25T2-06	16	25	33	124	48	68	56	SPMG060204	TS2205	T6
DDR3165-25T2-06	16.5	25	33	127	51	71	56	SPMG060204	TS2205	T6
DDR3170-25T2-06	17	25	33	127	51	71	56	SPMG060204	TS2205	T6
DDR3175-25T2-06	17.5	25	33	131	54	75	56	SPMG060204	TS2205	T6
DDR3180-25T2-06	18	25	33	131	54	75	56	SPMG060204	TS2205	T6
DDR3185-25T2-06	18.5	25	33	134	57	78	56	SPMG060204	TS2205	T6
DDR3190-25T2-06	19	25	33	134	57	78	56	SPMG060204	TS2205	T6
DDR3195-25T2-06	19.5	25	33	139	60	83	56	SPMG060204	TS2205	T6
DDR3200-25T2-06	20	25	33	139	60	83	56	SPMG060204	TS2205	T6
DDR3205-25T2-06	20.5	25	33	142	63	86	56	SPMG060204	TS2205	T6
DDR3210-25T2-06	21	25	33	142	63	86	56	SPMG060204	TS2205	T6
DDR3215-25T2-06	21.5	25	33	145	66	89	56	SPMG060204	TS2205	T6
DDR3220-25T2-07	22	25	33	145	66	89	56	SPMG07T308	TS2511	T8
DDR3225-32T2-07	22.5	32	43	154	69	94	60	SPMG07T308	TS2511	T8
DDR3230-32T2-07	23	32	43	154	69	94	60	SPMG07T308	TS2511	T8
DDR3235-32T2-07	23.5	32	43	158	72	98	60	SPMG07T308	TS2511	T8
DDR3240-32T2-07	24	32	43	158	72	98	60	SPMG07T308	TS2511	T8
DDR3245-32T2-07	24.5	32	43	162	75	102	60	SPMG07T308	TS2511	T8
DDR3250-32T2-07	25	32	43	162	75	102	60	SPMG07T308	TS2511	T8
DDR3255-32T2-07	25.5	32	43	165	78	105	60	SPMG07T308	TS2511	T8
DDR3260-32T2-07	26	32	43	165	78	105	60	SPMG07T308	TS2511	T8

3D HIGH SPEED DRILL
3D 快速鑽頭

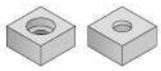


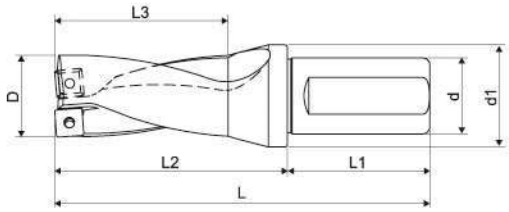




Model No.	Dimensions (mm)							Inserts Size	Screw	Wrench
	D	d	d1	L	L3	L2	L1			
DDR3265-32T2-07	26.5	32	43	169	81	108	60	SPMG07T308	TS2511	T08
DDR3270-32T2-07	27	32	43	169	81	108	60	SPMG07T308	TS2511	T08
DDR3275-32T2-07	27.5	32	43	172	84	112	60	SPMG07T308	TS2511	T08
DDR3280-32T2-09	28	32	43	172	84	112	60	SPMG090408	TS3504	T15
DDR3285-32T2-09	28.5	32	43	175	87	115	60	SPMG090408	TS3504	T15
DDR3290-32T2-09	29	32	43	175	87	115	60	SPMG090408	TS3504	T15
DDR3295-32T2-09	29.5	32	43	178	90	118	60	SPMG090408	TS3504	T15
DDR3300-32T2-09	30	32	43	178	90	118	60	SPMG090408	TS3504	T15
DDR3305-32T2-09	30.5	32	43	181	93	121	60	SPMG090408	TS3504	T15
DDR3310-32T2-09	31	32	43	181	93	121	60	SPMG090408	TS3504	T15
DDR3315-32T2-09	31.5	32	43	184	96	124	60	SPMG090408	TS3504	T15
DDR3320-32T2-09	32	32	43	184	96	124	60	SPMG090408	TS3504	T15
DDR3325-32T2-09	32.5	32	43	187	99	127	60	SPMG090408	TS3504	T15
DDR3330-32T2-09	33	32	43	187	99	127	60	SPMG090408	TS3504	T15
DDR3340-32T2-11	34	32	43	190	102	130	60	SPMG110408	TS4006	T15
DDR3350-32T2-11	35	32	43	193	105	133	60	SPMG110408	TS4006	T15
DDR3360-32T2-11	36	32	43	196	108	136	60	SPMG110408	TS4006	T15
DDR3370-32T2-11	37	32	43	199	111	139	60	SPMG110408	TS4006	T15
DDR3380-32T2-11	38	32	43	202	114	142	60	SPMG110408	TS4006	T15
DDR3390-32T2-11	39	32	43	205	117	145	60	SPMG110408	TS4006	T15
DDR3400-40T2-11	40	40	53	225	120	155	60	SPMG110408	TS4006	T15
DDR3410-40T2-11	41	40	53	228	123	158	60	SPMG110408	TS4006	T15
DDR3420-40T2-14	42	40	53	231	126	161	70	SPMG140512	TS5009	T20
DDR3430-40T2-14	43	40	53	234	129	164	70	SPMG140512	TS5009	T20
DDR3440-40T2-14	44	40	53	237	132	167	70	SPMG140512	TS5009	T20
DDR3450-40T2-14	45	40	53	240	135	170	70	SPMG140512	TS5009	T20
DDR3460-40T2-14	46	40	53	243	138	173	70	SPMG140512	TS5009	T20
DDR3470-40T2-14	47	40	53	246	141	176	70	SPMG140512	TS5009	T20
DDR3480-40T2-14	48	40	53	249	144	179	70	SPMG140512	TS5009	T20
DDR3490-40T2-14	49	40	53	252	147	182	70	SPMG140512	TS5009	T20
DDR3500-40T2-14	50	40	53	255	150	185	70	SPMG140512	TS5009	T20

4D HIGH SPEED DRILL
4D 快速鑽頭

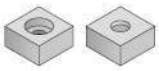


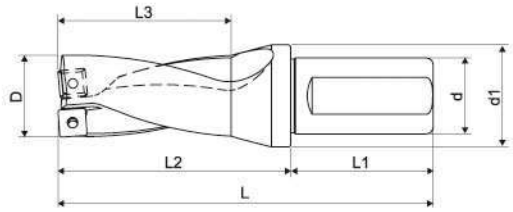




Model No.	Dimensions (mm)							Inserts Size	Screw	Wrench
	D	d	d1	L	L3	L2	L1			
DDR4125-20T2-05	12.5	20	27	120	52	70	50	SPMG050204	TS2003	T6
DDR4130-20T2-05	13	20	27	120	52	70	50	SPMG050204	TS2003	T6
DDR4135-20T2-05	13.5	20	27	124	56	74	50	SPMG050204	TS2003	T6
DDR4140-20T2-05	14	20	27	124	56	74	50	SPMG050204	TS2003	T6
DDR4145-20T2-05	14.5	20	27	129	60	79	50	SPMG050204	TS2003	T6
DDR4150-20T2-05	15	20	27	129	60	79	50	SPMG050204	TS2003	T6
DDR4155-25T2-06	15.5	25	33	140	64	84	56	SPMG060204	TS2205	T6
DDR4160-25T2-06	16	25	33	140	64	84	56	SPMG060204	TS2205	T6
DDR4165-25T2-06	16.5	25	33	144	68	88	56	SPMG060204	TS2205	T6
DDR4170-25T2-06	17	25	33	144	68	88	56	SPMG060204	TS2205	T6
DDR4175-25T2-06	17.5	25	33	148	72	92	56	SPMG060204	TS2205	T6
DDR4180-25T2-06	18	25	33	148	72	92	56	SPMG060204	TS2205	T6
DDR4185-25T2-06	18.5	25	33	152	76	96	56	SPMG060204	TS2205	T6
DDR4190-25T2-06	19	25	33	152	76	96	56	SPMG060204	TS2205	T6
DDR4195-25T2-06	19.5	25	33	156	80	100	56	SPMG060204	TS2205	T6
DDR4200-25T2-06	20	25	33	156	80	100	56	SPMG060204	TS2205	T6
DDR4205-25T2-06	20.5	25	33	160	84	104	56	SPMG060204	TS2205	T6
DDR4210-25T2-06	21	25	33	160	84	104	56	SPMG060204	TS2205	T6
DDR4215-25T2-06	21.5	25	33	164	88	108	56	SPMG060204	TS2205	T6
DDR4220-25T2-07	22	25	33	164	88	108	56	SPMG07T308	TS2511	T8
DDR4225-32T2-07	22.5	32	43	177	92	117	60	SPMG07T308	TS2511	T8
DDR4230-32T2-07	23	32	43	177	92	117	60	SPMG07T308	TS2511	T8
DDR4235-32T2-07	23.5	32	43	181	96	121	60	SPMG07T308	TS2511	T8
DDR4240-32T2-07	24	32	43	181	96	121	60	SPMG07T308	TS2511	T8
DDR4245-32T2-07	24.5	32	43	185	100	125	60	SPMG07T308	TS2511	T8
DDR4250-32T2-07	25	32	43	185	100	125	60	SPMG07T308	TS2511	T8
DDR4255-32T2-07	25.5	32	43	189	104	129	60	SPMG07T308	TS2511	T8
DDR4260-32T2-07	26	32	43	189	104	129	60	SPMG07T308	TS2511	T8

4D HIGH SPEED DRILL
4D 快速鑽頭

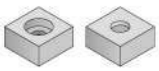


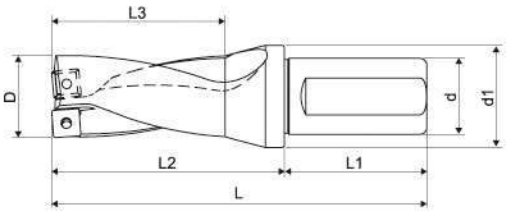




Model No.	Dimensions (mm)							Inserts Size	Screw	Wrench
	D	d	d1	L	L3	L2	L1			
DDR4265-32T2-07	26.5	32	43	196	108	136	60	SPMG07T308	TS2511	T08
DDR4270-32T2-07	27	32	43	196	108	136	60	SPMG07T308	TS2511	T08
DDR4275-32T2-07	27.5	32	43	200	112	140	60	SPMG07T308	TS2511	T08
DDR4280-32T2-09	28	32	43	200	112	140	60	SPMG090408	TS3504	T15
DDR4285-32T2-09	28.5	32	43	204	116	144	60	SPMG090408	TS3504	T15
DDR4290-32T2-09	29	32	43	204	116	144	60	SPMG090408	TS3504	T15
DDR4295-32T2-09	29.5	32	43	208	120	148	60	SPMG090408	TS3504	T15
DDR4300-32T2-09	30	32	43	208	120	148	60	SPMG090408	TS3504	T15
DDR4305-32T2-09	30.5	32	43	212	124	152	60	SPMG090408	TS3504	T15
DDR4310-32T2-09	31	32	43	212	124	152	60	SPMG090408	TS3504	T15
DDR4315-32T2-09	31.5	32	43	216	128	156	60	SPMG090408	TS3504	T15
DDR4320-32T2-09	32	32	43	216	128	156	60	SPMG090408	TS3504	T15
DDR4325-32T2-09	32.5	32	43	220	132	160	60	SPMG090408	TS3504	T15
DDR4330-32T2-09	33	32	43	220	132	160	60	SPMG090408	TS3504	T15
DDR4340-32T2-11	34	32	43	224	136	164	60	SPMG110408	TS4006	T15
DDR4350-32T2-11	35	32	43	228	140	168	60	SPMG110408	TS4006	T15
DDR4360-32T2-11	36	32	43	232	144	172	60	SPMG110408	TS4006	T15
DDR4370-32T2-11	37	32	43	236	148	176	60	SPMG110408	TS4006	T15
DDR4380-32T2-11	38	32	43	240	152	180	60	SPMG110408	TS4006	T15
DDR4390-32T2-11	39	32	43	244	156	184	60	SPMG110408	TS4006	T15
DDR4400-40T2-11	40	40	53	265	160	195	60	SPMG110408	TS4006	T15
DDR4410-40T2-11	41	40	53	269	164	199	60	SPMG110408	TS4006	T15
DDR4420-40T2-14	42	40	53	273	168	203	70	SPMG140512	TS5009	T20
DDR4430-40T2-14	43	40	53	277	172	207	70	SPMG140512	TS5009	T20
DDR4440-40T2-14	44	40	53	281	176	211	70	SPMG140512	TS5009	T20
DDR4450-40T2-14	45	40	53	285	180	215	70	SPMG140512	TS5009	T20
DDR4460-40T2-14	46	40	53	289	184	219	70	SPMG140512	TS5009	T20
DDR4470-40T2-14	47	40	53	293	188	223	70	SPMG140512	TS5009	T20
DDR4480-40T2-14	48	40	53	297	192	227	70	SPMG140512	TS5009	T20
DDR4490-40T2-14	49	40	53	301	196	231	70	SPMG140512	TS5009	T20
DDR4500-40T2-14	50	40	53	305	200	235	70	SPMG140512	TS5009	T20

5D HIGH SPEED DRILL
5D 快速鑽頭

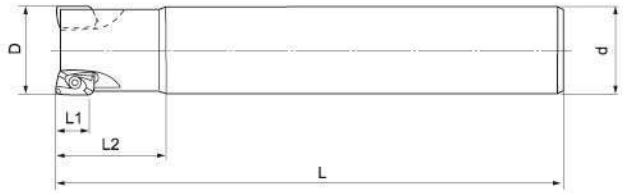






Model No.	Dimensions (mm)							Inserts Size	Screw	Wrench
	D	d	d1	L	L3	L2	L1			
DDR5130-20T2-05	13	20	27	133	65	83	50	SPMG050204	TS2003	T6
DDR5140-20T2-05	14	20	27	138	70	88	50	SPMG050204	TS2003	T6
DDR5150-20T2-05	15	20	27	144	75	94	50	SPMG050204	TS2003	T6
DDR5160-25T2-06	16	25	33	156	80	100	56	SPMG060204	TS2205	T6
DDR5170-25T2-06	17	25	33	161	85	105	56	SPMG060204	TS2205	T6
DDR5180-25T2-06	18	25	33	166	90	110	56	SPMG060204	TS2205	T6
DDR5190-25T2-06	19	25	33	171	95	115	56	SPMG060204	TS2205	T6
DDR5200-25T2-06	20	25	33	176	100	120	56	SPMG060204	TS2205	T6
DDR5210-25T2-06	21	25	33	181	105	125	56	SPMG060204	TS2205	T6
DDR5220-25T2-07	22	25	33	186	110	130	56	SPMG07T308	TS2511	T8
DDR5230-32T2-07	23	32	43	200	115	140	60	SPMG07T308	TS2511	T8
DDR5240-32T2-07	24	32	43	205	120	145	60	SPMG07T308	TS2511	T8
DDR5250-32T2-07	25	32	43	210	125	150	60	SPMG07T308	TS2511	T8
DDR5260-32T2-07	26	32	43	215	130	155	60	SPMG07T308	TS2511	T8
DDR5270-32T2-07	27	32	43	223	135	163	60	SPMG07T308	TS2511	T8
DDR5280-32T2-09	28	32	43	228	140	168	60	SPMG090408	TS3504	T15
DDR5290-32T2-09	29	32	43	233	145	173	60	SPMG090408	TS3504	T15
DDR5300-32T2-09	30	32	43	238	150	178	60	SPMG090408	TS3504	T15
DDR5310-32T2-09	31	32	43	243	155	183	60	SPMG090408	TS3504	T15
DDR5320-32T2-09	32	32	43	248	160	188	60	SPMG090408	TS3504	T15
DDR5330-32T2-09	33	32	43	253	165	193	60	SPMG090408	TS3504	T15
DDR5340-32T2-11	34	32	43	258	170	198	60	SPMG090408	TS4006	T15
DDR5350-32T2-11	35	32	43	263	175	203	60	SPMG090408	TS4006	T15
DDR5360-32T2-11	36	32	43	268	180	208	60	SPMG090408	TS4006	T15
DDR5440-40T2-14	44	40	53	325	220	255	70	SPMG140512	TS5009	T20

CAP300R HIGH-SPEED ROUNGH ENDMILL
CAP300R 快削型端銑刀

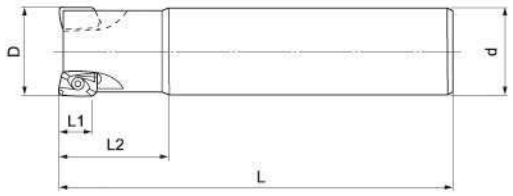




Model No.	Dimensions (mm)					Teeth	Inserts Size	Screw	Wrench
	D	d	L1	L2	L				
CAP300R-1010X100	10	10	9	25	100	1	APMT 1135PDER	SCR-CAP2.5	T8
CAP300R-1016X100	10	16	9	25	100	1	APMT 1135PDER	SCR-CAP2.5	T8
CAP300R-1212X100	12	12	9	25	100	1	APMT 1135PDER	SCR-CAP2.5	T8
CAP300R-1216X100	12	16	9	25	100	1	APMT 1135PDER	SCR-CAP2.5	T8
CAP300R-1312X100	13	12	9	25	100	1	APMT 1135PDER	SCR-CAP2.5	T8
CAP300R-1616X120	16	16	9	25	120	2	APMT 1135PDER	SCR-CAP2.5	T8
CAP300R-1616X160	16	16	9	25	160	2	APMT 1135PDER	SCR-CAP2.5	T8
CAP300R-1716x160	17	16	9	25	160	2	APMT 1135PDER	SCR-CAP2.5	T8
CAP300R-2020X120	20	20	9	30	120	2	APMT 1135PDER	SCR-CAP2.5	T8
CAP300R-2020X150	20	20	9	30	150	2	APMT 1135PDER	SCR-CAP2.5	T8
CAP300R-2020X200	20	20	9	30	200	2	APMT 1135PDER	SCR-CAP2.5	T8
CAP300R-2120x200	21	20	9	30	200	2	APMT 1135PDER	SCR-CAP2.5	T8
CAP300R-2525X150	25	25	9	35	150	4	APMT 1135PDER	SCR-CAP2.5	T8
CAP300R-2525X200	25	25	9	35	200	4	APMT 1135PDER	SCR-CAP2.5	T8
CAP300R-2525X250	25	25	9	35	250	4	APMT 1135PDER	SCR-CAP2.5	T8

※建議使用刀片 Insert: MITSUBISHI

CAP400R HIGH-SPEED ROUNGH ENDMILL
CAP400R 快削型端銑刀

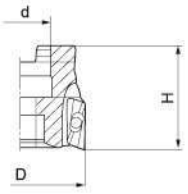


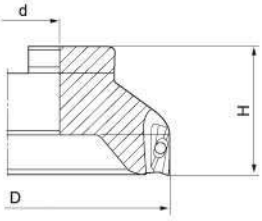


Model No.	Dimensions (mm)					Teeth	Inserts Size	Screw	Wrench	Weight (kgs)
	D	d	L1	L2	L					
CAP400R-2525X150	25	25	14	35	150	2	APMT 1604PDER	SCR-CAP4	T15	0.54
CAP400R-2525X200	25	25	14	35	200	2	APMT 1604PDER	SCR-CAP4	T15	0.73
CAP400R-2525X250	25	25	14	35	250	2	APMT 1604PDER	SCR-CAP4	T15	0.94
CAP400R-3025X150	30	25	14	45	150	2	APMT 1604PDER	SCR-CAP4	T15	0.59
CAP400R-3025X200	30	25	14	45	200	2	APMT 1604PDER	SCR-CAP4	T15	0.81
CAP400R-3025X250	30	25	14	45	250	2	APMT 1604PDER	SCR-CAP4	T15	1.00
CAP400R-3232X150	32	32	14	45	150	3	APMT 1604PDER	SCR-CAP4	T15	0.87
CAP400R-3232X200	32	32	14	60	200	3	APMT 1604PDER	SCR-CAP4	T15	1.19
CAP400R-3232X250	32	32	14	60	250	3	APMT 1604PDER	SCR-CAP4	T15	1.51
CAP400R-3232X300	32	32	14	60	300	3	APMT 1604PDER	SCR-CAP4	T15	1.85
CAP400R-3532X150	35	32	14	45	150	3	APMT 1604PDER	SCR-CAP4	T15	0.91
CAP400R-3532X200	35	32	14	45	200	3	APMT 1604PDER	SCR-CAP4	T15	1.25
CAP400R-3532X250	35	32	14	45	250	3	APMT 1604PDER	SCR-CAP4	T15	1.56
CAP400R-3532X300	35	32	14	45	300	3	APMT 1604PDER	SCR-CAP4	T15	1.90
CAP400R-4032X150	40	32	14	45	150	3	APMT 1604PDER	SCR-CAP4	T15	1.02
CAP400R-4032X200	40	32	14	45	200	3	APMT 1604PDER	SCR-CAP4	T15	1.35
CAP400R-5032X150	50	32	14	45	150	4	APMT 1604PDER	SCR-CAP4	T15	1.28
CAP400R-5032X200	50	32	14	45	200	4	APMT 1604PDER	SCR-CAP4	T15	1.47
CAP400R-5042X150	50	42	14	45	150	4	APMT 1604PDER	SCR-CAP4	T15	1.75

※建議使用刀片 Insert: MITSUBISHI

CAP400R FACE MILLING CUTTER
CAP400R 快削型平面銑刀



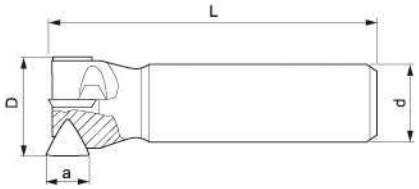




Model No.	Dimensions (mm)				Teeth	Inserts	Screw	Wrench	Weight (kgs)
	D	d	d*	H					
CAP400R-FM50	50	25.4	22	40	4	APMT1604	SCR-CAP4	T15	0.34
CAP400R-FM63	63	25.4	22	40	5	APMT1604	SCR-CAP4	T15	0.57
CAP400R-FM80	80	25.4	27	50	6	APMT1604	SCR-CAP4	T15	1.15
CAP400R-FM100	100	31.75	32	50	7	APMT1604	SCR-CAP4	T15	1.83
CAP400R-FM125	125	38.1	40	50	8	APMT1604	SCR-CAP4	T15	2.99
CAP400R-FM160	160	38.1	40	50	10	APMT1604	SCR-CAP4	T15	5.07

※建議使用刀片 Insert: MITSUBISHI

TPR SHOULDER ENDMILL
直角端銑刀

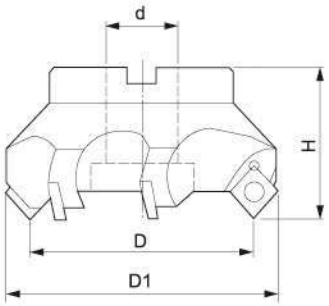




Model No.	Dimensions (mm)			Teeth	Inserts Size	Screw	Wrench	Weight (kgs)
	D	d	L1					
TPR-1616X110	16	16	110	1	TPMN1103	SCR-W3/16	WRN-M3L	0.17
TPR-2020X110	20	20	110	2	TPMN1103	SCR-W3/16	WRN-M3L	0.25
TPR-2520X110	25	20	110	2	TPMN1103	SCR-W3/16	WRN-M3L	0.25
TPR-2525X110	25	25	110	2	TPMN1103	SCR-W3/16	WRN-M3L	0.29
TPR-3020X130	30	20	130	2	TPMN1603	SCR-W1/4	WRN-M4L	0.35
TPR-3025X130	30	25	130	2	TPMN1603	SCR-W1/4	WRN-M4L	0.48
TPR-3520X130	35	20	130	2	TPMN1603	SCR-W1/4	WRN-M4L	0.39
TPR-3525X130	35	25	130	2	TPMN1603	SCR-W1/4	WRN-M4L	0.53
TPR-3532X150	35	32	150	2	TPMN1603	SCR-W1/4	WRN-M4L	0.91
TPR-4020X130	40	20	130	3	TPMN1603	SCR-W1/4	WRN-M4L	0.44
TPR-4025X130	40	25	130	3	TPMN1603	SCR-W1/4	WRN-M4L	0.57
TPR-4032X150	40	32	150	3	TPMN1603	SCR-W1/4	WRN-M4L	0.93
TPR-4520X130	45	20	130	3	TPMN1603	SCR-W1/4	WRN-M4L	0.52
TPR-4525X130	45	25	130	3	TPMN1603	SCR-W1/4	WRN-M4L	0.66
TPR-4532X150	45	32	150	3	TPMN1603	SCR-W1/4	WRN-M4L	1.02
TPR-5020X130	50	20	130	3	TPMN1603	SCR-W1/4	WRN-M4L	0.61
TPR-5025X130	50	25	130	3	TPMN1603	SCR-W1/4	WRN-M4L	0.76
TPR-5032X150	50	32	150	3	TPMN1603	SCR-W1/4	WRN-M4L	1.06
TPR-5032X200	50	32	200	3	TPMN1603	SCR-W1/4	WRN-M4L	1.43
TPR-6332X150	63	32	150	4	TPMN1603	SCR-W1/4	WRN-M4L	1.47
TPR22-5032X150	50	32	150	3	TPMN2204	SCR-W5/16	WRN-M5L	1.03
TPR22-6332X150	63	32	150	3	TPMN2204	SCR-W5/16	WRN-M5L	1.40

※建議使用刀片 Insert: ISO Code

HIGH-SPEED FACE MILLING CUTTER
45°高速平面殼型銑刀

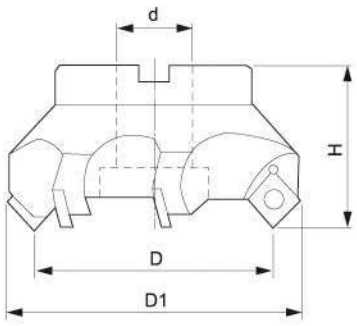




Model No.	Dimensions (mm)					Teeth	Inserts	Screw	Shim	Wrench	Weight (kgs)
	D	D1	d	d*	H						
SE-50	50	60	-	22	45	4	SEKT1204	SCR-SE5	ST-T	T20	0.53
SE-63	63	75	25.4	27	50	5	SEKT1204	SCR-SE5	ST-T	T20	0.83
SE-80	80	96	25.4	27	55	6	SEKT1204	SCR-SE5	ST-T	T20	1.24
SE-100	100	116	31.75	32	55	6	SEKT1204	SCR-SE5	ST-T	T20	1.83
SE-125	125	141	38.1	40	60	8	SEKT1204	SCR-SE5	ST-T	T20	3.09
SE-150	150	158	50.8	40	60	10	SEKT1204	SCR-SE5	ST-T	T20	4.06
SE-200	200	212	47.625	60	60	12	SEKT1204	SCR-SE5	ST-T	T20	7.68
SE-250	250	268	47.625	-	60	12	SEKT1204	SCR-SE5	ST-T	T20	14.0

※建議使用刀片 Insert: ISO Code

HIGH-SPEED FACE MILLING CUTTER
45°高速平面殼型銑刀

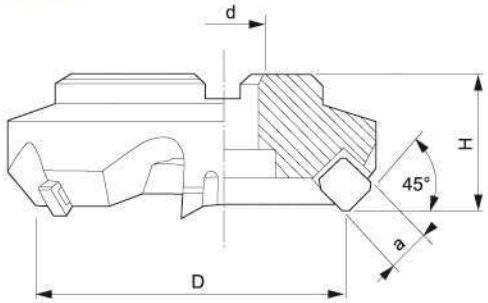




Model No.	Dimensions (mm)					Teeth	Inserts	Screw	Wrench	Weight (kgs)
	D	D1	d	d*	H					
SE13-50	50	60	X	22	45	4	SEMT13T3	SCR-SE4	T15	0.54
SE13-63	63	75	25.4	22	50	5	SEMT13T3	SCR-SE4	T15	0.84
SE13-80	80	96	25.4	27	55	6	SEMT13T3	SCR-SE4	T15	1.24
SE13-100	100	116	31.75	32	55	6	SEMT13T3	SCR-SE4	T15	1.83
SE13-125	125	141	38.1	40	60	8	SEMT13T3	SCR-SE4	T15	3.07
SE13-150	150	158	50.8	40	60	10	SEMT13T3	SCR-SE4	T15	3.82
SE13-200	200	212	47.625	60	60	12	SEMT13T3	SCR-SE4	T15	7.88
SE13-250	250	268	47.625	-	60	12	SEMT13T3	SCR-SE4	T15	-

※建議使用刀片 Insert: MITSUBISHI, SANDVIK

45° FACE MILLING CUTTER
45°平面銑刀



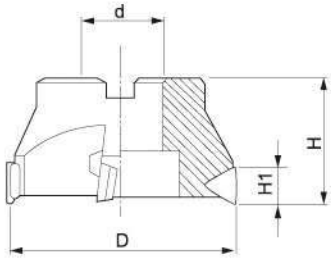


Model No.	Dimensions (mm)				Teeth	Inserts	Clamp	Clamp Screw	Shim	Shim Screw	Wrench	Weight (kgs)
	D	d	d*	H								
545-3	80	25.4	27	50	5	SEKN-1504	CL5-S	SCR-CL5/16	ST-S	SCR-ST-S4	WRN-M4T	1.80
545-4	100	31.75	32	55	5		CL5-S	SCR-CL5/16	ST-S	SCR-ST-S4	WRN-M4T	2.89
545-5	125	38.1	40	60	6		CL5-S	SCR-CL5/16	ST-S	SCR-ST-S4	WRN-M4T	4.81
545-6	160	50.8	40	60	8		CL5-S	SCR-CL5/16	ST-S	SCR-ST-S4	WRN-M4T	7.00
545-8	200	47.625	60	60	10		CL5-S	SCR-CL5/16	ST-S	SCR-ST-S4	WRN-M4T	9.69
545-10	250	47.625	60	60	12		CL5-S	SCR-CL5/16	ST-S	SCR-ST-S4	WRN-M4T	17.0
545-12	300	47.625	60	60	14		CL5-S	SCR-CL5/16	ST-S	SCR-ST-S4	WRN-M4T	27.0

Model No.	Dimensions (mm)				Teeth	Inserts	Clamp	Clamp Screw	Shim	Shim Screw	Wrench	Weight (kgs)
	D	d	d*	H								
445-3	80	25.4	27	50	5	SEKN-1203	CL4-S	SCR-CL5/16	ST-S	SCR-ST-S4	WRN-M4T	1.78
445-4	100	31.75	32	55	5		CL4-S	SCR-CL5/16	ST-S	SCR-ST-S4	WRN-M4T	2.91
445-5	125	38.1	40	60	6		CL4-S	SCR-CL5/16	ST-S	SCR-ST-S4	WRN-M4T	4.83
445-6	160	50.8	40	60	8		CL4-S	SCR-CL5/16	ST-S	SCR-ST-S4	WRN-M4T	6.99
445-8	200	47.625	60	60	10		CL4-S	SCR-CL5/16	ST-S	SCR-ST-S4	WRN-M4T	9.73
445-10	250	47.625	60	60	12		CL4-S	SCR-CL5/16	ST-S	SCR-ST-S4	WRN-M4T	17.0
445-12	300	47.625	60	60	14		CL4-S	SCR-CL5/16	ST-S	SCR-ST-S4	WRN-M4T	27.0

※建議使用刀片 Insert: ISO Code

TPR SHOULDER FACE MILLING CUTTER
直角平面銑刀

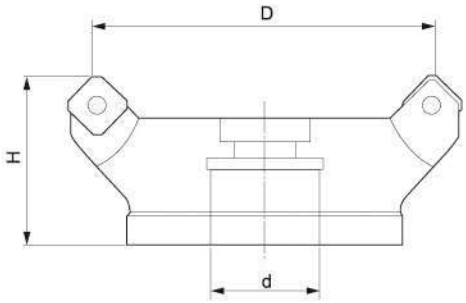




Model No.	Dimensions (mm)					Teeth	Inserts	Insert Screw	Shim	Shim Screw	Wrench	Weight (kgs)
	D	d	d*	H1	H							
TPR-63	63	25.4	27	22	50	3	TPMN2204,TPKN2204PPR	SCR-W5/16	ST-T	SCR-ST-T4	WRN-M5L	0.62
TPR-3	80	25.4	27	22	50	4	TPMN2204,TPKN2204PPR	SCR-W5/16	ST-T	SCR-ST-T4	WRN-M5T	1.04
TPR-4	100	31.75	32	22	55	5	TPMN2204,TPKN2204PPR	SCR-W5/16	ST-T	SCR-ST-T4	WRN-M5T	1.82
TPR-5	125	38.1	40	22	60	6	TPMN2204,TPKN2204PPR	SCR-W5/16	ST-T	SCR-ST-T4	WRN-M5T	3.21
TPR-6	160	50.8	40	22	60	7	TPMN2204,TPKN2204PPR	SCR-W5/16	ST-T	SCR-ST-T4	WRN-M5T	5.38
TPR-8	200	47.625	60	22	60	8	TPMN2204,TPKN2204PPR	SCR-W5/16	ST-T	SCR-ST-T4	WRN-M5T	7.61
TPR-10	250	47.625	60	22	60	9	TPMN2204,TPKN2204PPR	SCR-W5/16	ST-T	SCR-ST-T4	WRN-M5T	17.0
TPR-12	300	47.625	60	22	60	10	TPMN2204,TPKN2204PPR	SCR-W5/16	ST-T	SCR-ST-T4	WRN-M5T	27.0

※建議使用刀片 Insert: ISO Code

POWERFUL FACE MILLING CUTTER
強力平面銑刀

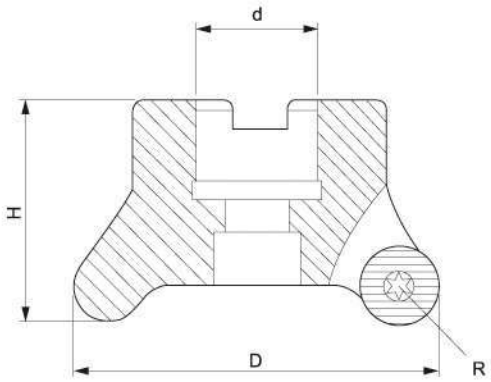




Model No.	Dimensions (mm)				Teeth	Inserts	Screw	Wrench	Weight (kgs)
	D	d	d*	H					
C4033-50	50	-	22	40	4	SNMX1205, SNGX1205	SCR-SN4	T15	0.47
C4033-63	63	25.4	22	50	6	SNMX1205, SNGX1205	SCR-SN4	T15	1.19
C4033-80	80	25.4	27	50	6	SNMX1205, SNGX1205	SCR-SN4	T15	1.55
C4033-100	100	31.75	32	63	8	SNMX1205, SNGX1205	SCR-SN4	T15	1.92
C4033-125	125	38.1	40	63	10	SNMX1205, SNGX1205	SCR-SN4	T15	3.96
C4033-160	160	50.8	40	63	12	SNMX1205, SNGX1205	SCR-SN4	T15	5.39
C4033-200	200	47.625	60	63	18	SNMX1205, SNGX1205	SCR-SN4	T15	7.66

※建議使用刀片 Insert: WALTER

RADIUS FACE MILLING CUTTER
CRT 型R角平面銑刀

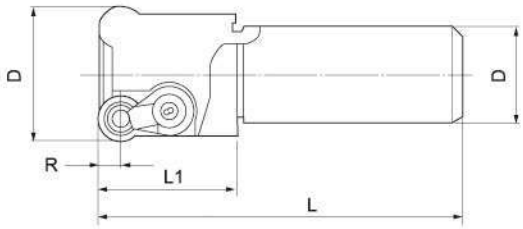




Model No.	Dimensions (mm)				Teeth	Inserts	Insert Screw	Clamp	Clamp Screw	Wrench	Weight (kgs)
	D	d	d*	H							
CRT-6R50	50	-	22	45	4	RPMT1204MO	SCR-CRT4	CL-CRT	SCR-CRT3.5	T15	0.32
CRT-6R63	63	25.4	22	50	5	RPMT1204MO	SCR-CRT4	CL-CRT	SCR-CRT3.5	T15	0.66
CRT-6R80	80	25.4	27	50	6	RPMT1204MO	SCR-CRT4	CL-CRT	SCR-CRT3.5	T15	1.04
CRT-6R100	100	31.75	32	55	7	RPMT1204MO	SCR-CRT4	CL-CRT	SCR-CRT3.5	T15	1.83

※建議使用刀片 Insert: MITSUBISHI

CRS RADIUS ENDMILL
CRS型R角端銑刀

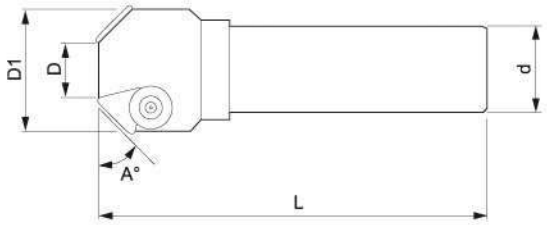




Model No.	Dimensions (mm)					Teeth	Weight (kgs)	Inserts Size	Inserts Scr.	Clamp	Clamp Scr.	Wrench
	D	d	R	L1	L							
CRS-4R12X150	12	12	4	70	150	1	0.14	RDMT0802	SCR-CRS3	CL-4R	SCR-CRS3.5	T10/T15
CRS-4R16X120	16	16	4	35	120	1-2	0.19					
CRS-4R16X150	16	16	4	35	150	2	0.24					
CRS-4R17X150	17	16	4	70	150	2	0.24			-	-	T10
CRS-4R20X150	20	20	4	50	150	2	0.37			CL-4R	SCR-CRS3.5	T10/T15
CRS-4R20X200	20	20	4	70	200	2	0.49					
CRS-4R21X150	21	20	4	70	150	2	0.38					
CRS-5R25X150	25	25	5	60	150	2	0.55	RDMT10T3	SCR-CRS4	CL-5R	SCR-CRS3.5	T15
CRS-5R25X200	25	25	5	120	200	2	0.76					
CRS-5R25X250	25	25	5	120	250	2	0.95					
CRS-5R25X300	25	25	5	140	300	2	1.18					
CRS-5R30X150	30	25	5	50	150	2	0.58					
CRS-5R30X200	30	25	5	50	200	2	0.79					
CRS-5R30X250	30	25	5	50	250	2	0.99					
CRS-5R30X300	30	25	5	50	300	2	1.18					
CRS-5R32X150	32	32	5	70	150	3	0.89					
CRS-5R32X200	32	32	5	120	200	3	1.22					
CRS-5R32X250	32	32	5	140	250	3	1.54					
CRS-5R35X150	35	32	5	50	150	3	0.91					
CRS-5R35X200	35	32	5	50	200	3	1.24					
CRS-5R35X250	35	32	5	50	250	3	1.54					
CRS-5R35X300	35	32	5	50	300	3	1.91					
CRS-5R40X150	40	32	5	50	150	3	0.99					
CRS-5R40X200	40	32	5	50	200	3	1.31					
CRS-6R35X150	35	32	6	50	150	3	0.96	RDMT1204MOTN	SCR-CRS4L	CL-6R	SCR-CRS3.5	
CRS-6R35X200	35	32	6	50	200	3	-					
CRS-6R40X150	40	32	6	50	150	3	-					
CRS-6R40X200	40	32	6	50	200	3	1.27					

※建議使用刀片 Insert: HITACHI

45° CHAMFERING ENDMILL
45°倒角刀

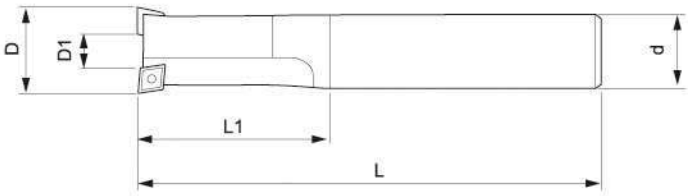




Model No.	Dimensions (mm)					Teeth	Inserts	Screw	Wrench	Weight (kgs)
	D	D1	d	A°	L					
CM45-0521X16	5	21	16	45	120	1	TPUN1603	SCR-W1/4	WRN-M4L	0.19
CM45-0521X20	5	21	20	45	120	1	TPUN1603	SCR-W1/4	WRN-M4L	0.28
CM45-1031X20	10	31	20	45	120	2	TPUN1603	SCR-W1/4	WRN-M4L	0.34
CM45-2050X25	20	50	25	45	130	3	TPUN2204	SCR-W5/16	WRN-M5L	0.64
CM45-2050X32	20	50	32	45	150	3	TPUN2204	SCR-W5/16	WRN-M5L	0.97
CM45-0632X32	6	32	32	45	150	1	TPUN2204	SCR-W5/16	WRN-M5L	0.88
CM45-3563X25	35	63	25	45	150	3	TPUN2204	SCR-W5/16	WRN-M5L	1.05
CM45-3563X32	35	63	32	45	150	3	TPUN2204	SCR-W5/16	WRN-M5L	1.30

※建議使用刀片 Insert: ISO Code

BOLT COUNTERSINK ENDMILL
螺絲頭沈孔銑刀





Model No.	Dimensions (mm)					Teeth	Inserts	Screw	Wrench	Weight (kgs)
	D	D1	d	L1	L					
CH-8-14-25	14	2.9	25	21	108	1	CCMT060204	SCR-CH2.5	T8	0.32
CH-10-17.5-25	17.5	5.3	25	26	115	2	CCMT060204	SCR-CH2.5	T8	0.37
CH-12-20-25	20	7.8	25	30	120	2	CCMT060204	SCR-CH2.5	T8	0.39
CH-14-23-25	23	10.8	25	34.5	126	2	CCMT060204	SCR-CH2.5	T8	0.43
CH-16-26-32	26	8.5	32	39	132	2	CPMT090308	SCR-CH4	T15	0.64
CH-20-32-32	32	14.5	32	59	144	2	CPMT090308	SCR-CH4	T15	0.79

※建議使用刀片 Insert: HITACHI / ISO Code

配件系統
ACCESSORIES SYSTEM

角固虎鉗	ANGLE LOCK VISE
兩用分度盤	ROTARY TABLE
鎖刀座	TOOL HOLDER LOCKING DEVICE
擦拭棒	TAPER WIPER
萬能夾具	CLAMPING KITS
刀具架/車	TOOL STAND / TROLLEY
尋邊器	TOUCH POINT SENSOR
測試棒	TEST BAR
高度設定器	DIAL GAUGE TOOL LENGTH SETTER
研磨機	GRINDER
接觸式刀具設定儀	CONTACT TYPE TOOL PRESETTER

PROFESSIONAL NC ACCESSORIES SYSTEM



ACCESSORIES SYSTEM

MC PRESSURE - CONSTANT HYDRAULIC ANGLE LOCK VISE (BACK-TENSION)
MC 定壓式增壓角固虎鉗(後拉式)

特點:

- 角固式配合"半圓球體"下鎖之力，可防止工件上浮。
- 增壓式與機械式兩種使用方法。
- 虎鉗本台採用球狀石墨化鑄鐵FCD-60材質。
- 虎鉗滑動面均經硬化熱處理HRC45° ，堅固耐用確保精度。
- 虎鉗本體的高度與導正鍵槽皆做定寸管制，可以2、3、4台一起使用。
- 虎鉗有四種不同的夾持方式，供您選擇。



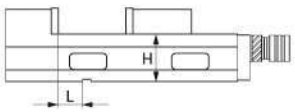
★虎鉗可側立使用
VISE CAN SIDE-LOCK TO WORK.

Feature:

- Down thrust with " semi-sphere " to prevent workpiece lift.
- Mechanical / Hydraulic. Two operate methods.
- Vise body is made of ductile iron FCD-60.
- Vise bed hardened to HRC45°and maintain accuracy for long.
- Vise bed height-size and the guide block side are all made with full control, it can be combined with 2, 3, or 4 vises to perform a job at a time.
- Vise have 4 ways of clamping. For your choice.

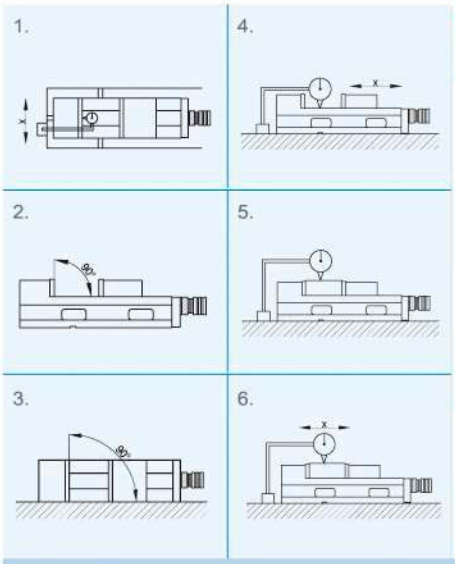
★每台虎鉗的高度與導正鍵槽皆做定寸管制。
The height and the guide block side of every vise are all made with full control.

L-尺寸公差限度0.02或少於
L- Dimension tolerance 0.02 or less.



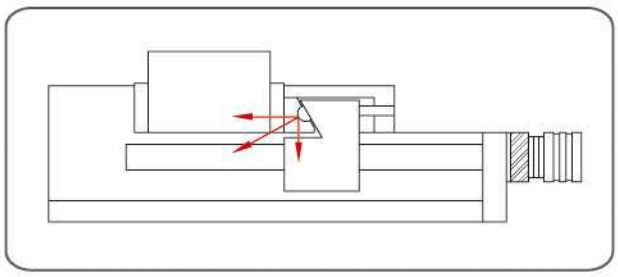
H-尺寸公差限度0.02或少於。
H- Dimension tolerance 0.02 or less.





No.	檢查項目 Inspection Item (100mm)	容許值 Allowance	
		E CHEE	JIS CLASS
1	鉗口面對本台底面導正鍵槽之平行度 Parallelism of guide block side of body bottom face and fixed jaw clamp face.	0.01	0.015
2	鉗口面對滑動面之垂直度 Squareness of fixed jaw clamp face and jaw slideway.	0.015	0.03
3	雙側面對滑動面之垂直度 Vise side-lock on bottom with the slide way in vertical.	0.02	0.02
4	本台滑動面對底面之平行度 Parallelism of body bottom face and jaw slideway.	0.01	0.015
5	工件夾緊後之上浮量 Top face lift of test block in clamping.	0.02	0.03
6	工件夾緊後之平行度 Parallelism of top face of clamped test block in clamping.	0.015	0.02

MC PRESSURE - CONSTANT HYDRAULIC ANGLE LOCK VISE (BACK-TENSION)
MC 定壓式增壓角固虎鉗(後拉式)





- 角固式配合"半圓球體"下鎖之力，可防止工件上浮。
- Down thrust with"semi-sphere" to prevent workpiece lift.

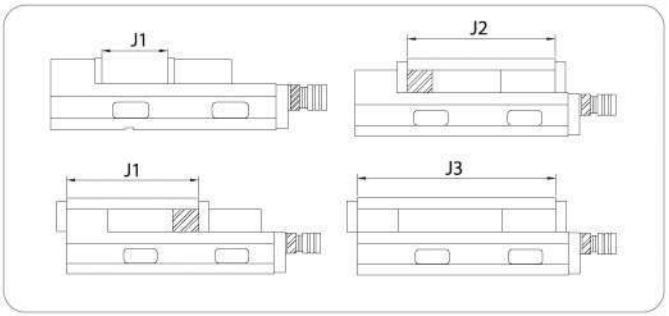


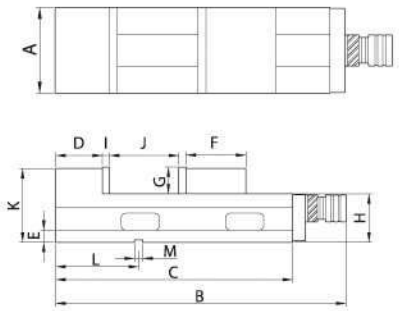
增壓式夾緊系統 Hydraulic System



機械式夾緊系統 Mechanical System

- 夾緊系統：增壓式與機械式兩種使用方法。
- Clamping System: Hydraulic / Mechanical Two operate methods.





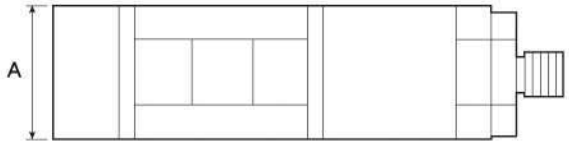
虎鉗有四種不同的夾持方式，供您選擇。
Vise have 4 ways of clamping. For your choice.

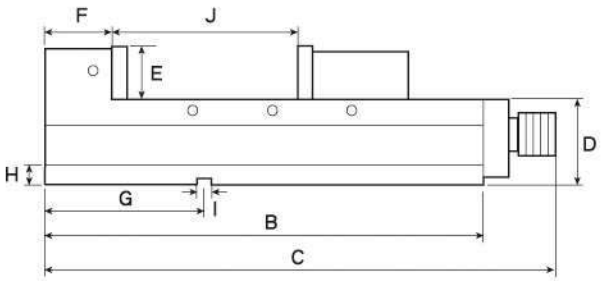
Model No.	A	B	C	D	E	F	G	H	I	J	J1	J2	J3	K	L	M	N.W. (Kgs)	Clamping Force (Scale)
MHV-100	102	475	340	65	25	102	47	85	15	125	125-190	125-230	125-320	130	125	16	27	3000kgf
MHV-130	132	558	423	70	25	110	54	95	15	200	200-260	200-300	200-410	147	165	18	40	4400kgf
MHV-160	162	632	497	85	25	130	57	105	15	240	240-315	240-360	240-470	160	165	18	60	5000kgf
MHV-160A	162	692	557	85	25	130	57	105	15	300	300-375	300-420	300-530	160	165	18	65	5000kgf
MHV-200	202	710	570	90	25	139	62	110	18	300	300-375	300-425	300-560	170	190	18	80	7000kgf

- 標準附件：1. 把手一組。 2. 導正鍵2只/ 螺絲 x 2只(M6 x 12L) 。 3. 虎鉗固定塊4只。 4. 螺絲M16 x 75L x 4支。 5. T型螺帽M16 x 4只。 6. 華司M16 x 4片
- 特殊附件：特殊虎口板(大開口用的虎口板)
- Standard Accessories：1. Handle x 1pc. 2. Guide Key x 2pcs / M6×12L x 2pcs. 3.Vise Locked Block x 4pcs. 4. Screw M16 x 75L x 4pcs. 5. T-Type Screw M16 x 4pcs. 6.Washer M16 x 4pcs.
- Optional Accessories： Special Application Jaw Plates.

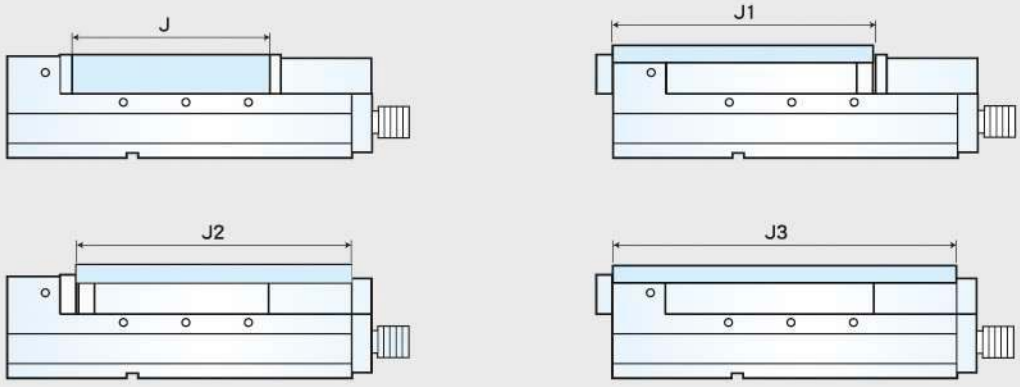
MECHANICAL ANGLE LOCK VISE
機械增壓倍力式角固虎鉗







4種夾持方式 Four clamping ways for choice



MODEL	A	B	C	D	E	F	G	H	I	J	J1	J2	J3	Clamping Force	N.W
MMV-100	100	395	533	85	50	60	105	25	18	200	260	300	390	4000 kgf	36 Kg
MMV-130	130	470	608	95	50	75	140	25	18	250	340	370	460	4500 kgf	49 Kg
MMV-160	160	545	683	100	60	85	200	25	18	300	370	400	530	5500 kgf	67 Kg
MMV-200	200	605	743	110	60	95	225	25	18	330	430	490	590	6000 kgf	105 Kg

- 標準附件：1. 把手一組。 2. 導正鍵2只/ 螺絲 x 2只(M6 x 12L) 。 3. 虎鉗固定塊4只。 4. 螺絲M16 x 75L x 4支。
  5. T型螺帽M16 x 4只。 6. 華司M16用 x 4片。
- Standard Accessories：1. Handle x 1pc. 2. Guide Key x 2pcs / M6×12L x 2pcs. 3.Vise Locked Block x 4pcs.
  4. Screw M16 x 75L x 4pcs. 5. T-Type Screw M16 x 4pcs. 6.Washer M16 use x 4pcs.

HYDRAULIC MACHINE VISE (BUILT-IN TYPE)
內藏式增壓虎鉗

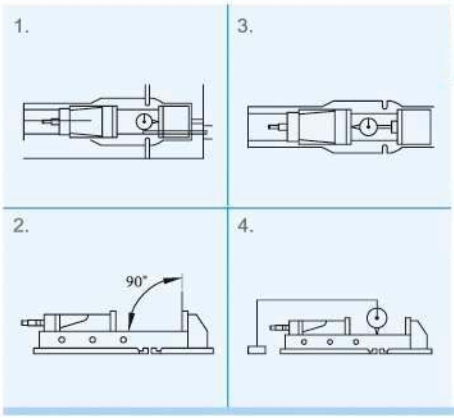
特點：

- 適合立式綜合切削加工機，銑床使用。
- 虎鉗本台使用高延展性鑄鐵，防止變形。
- 本壓力系統只須小小施力，便可發揮強大的夾持力。
- 三個夾持範圍設計，可快速變換且操作簡便。

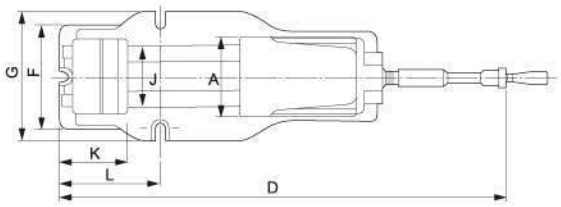
Feature:

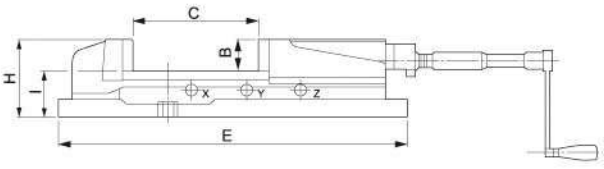
- Most suitable for vertical machine center, milling machine.
- Vise body is made of high quality ductile cast iron resists bending.
- Pressure system for maximum clamping pressure with minimum force.
- 3 clamping ranges design:Quick to change and easy to operate.
- Vise pressure system with one year guarantee.





No.	檢查項目 Inspection Item (100mm)	容許值 Allowance	
		E CHEE	JIS CLASS
1	鉗口面對本台底面導正鍵槽之平行度 Parallelism of guide block side of body bottom face and fixed jaw clamp face.	0.01	0.015
2	鉗口面對滑動面之垂直度 Squareness of fixed jaw clamp face and jaw slideway.	0.02	0.03
3	兩邊鉗口之平行度 Both jaw plate parallelism. 0.015	0.015	0.02
4	本台滑動面對底面之平行度 Parallelism of body bottom face and jaw slideway..	0.01	0.015





Model No.	A	B	C	D	E	F	G	H	I	J	K	L	Clamping range			Clamping Force (kgf)	Weight (Kgs)	
													X position	Y position	Z position		Table	Disk Rotary
HV-100	105	36	170	695	400	135	170	95	58	80	95	147	0-57	55-114	112-170	2500	21	7
HV-130	130	48	220	840	550	175	207	120	70.5	97	107	195	0-73	72-146	145-220	3500	38	8
HV-150	150	53	300	970	620	182	225	135	82.5	116	117	210	0-100	98-200	198-300	4500	53	11
HV-200	200	62	300	1070	680	260	280	162	100	160	150	260	0-100	99-200	198-300	8000	95	13

TILTING HYDRAULIC VISE
傾斜式增壓虎鉗

特點:

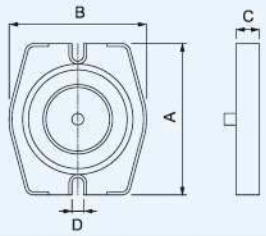
- 本虎鉗不同於一般的銑床虎鉗，可依不同需求直接調整出加工角度，其垂直方向調整角度可從0至45度自由調整，刻劃的度數極為精確，可直接調整出加工角度。

Feature:

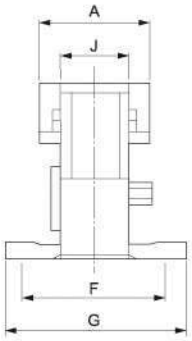
- The vise is different from general vise use for miller. It can be adjusted the angle for processing requirement, and its vertical angle can be adjusted freely 0-45.The graduation is very precise. You may read the processing angle clearly from the scale.

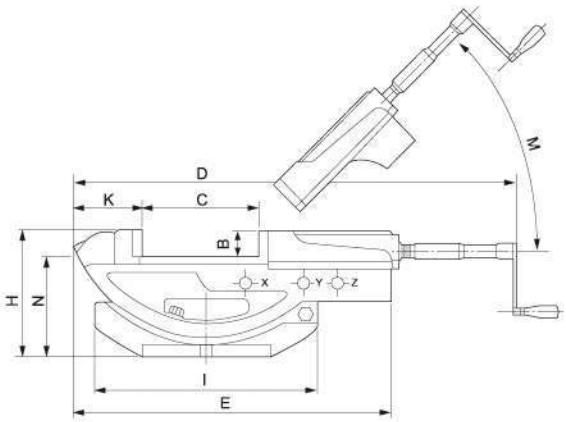


SWIVEL BASE 迴轉底盤



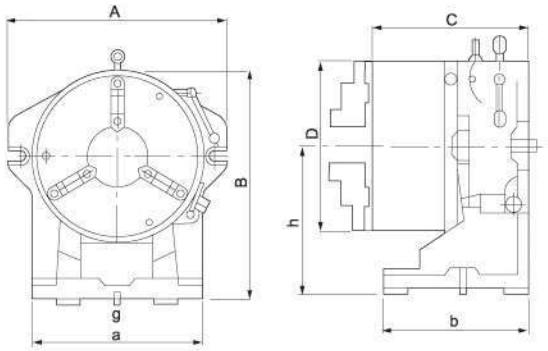
Model No.	A	B	C	D	G.W. (kgs)
HS-4	270	240	40.7	15	7
HS-5	292	267	44	17	8
HS-6	330	300	40.8	17	11
HS-8	380	345	42.2	19	13





Model No.	A	B	C	D	E	F	G	H	I	J	K	M	N	Clamping Force (kgf)	Weight (kgs)	
															Body	Swivel Base
THV-100	105	36	0-170	547	420	106	165	191	340	80	92	0-45°	160	2500	26	7
THV-150	150	53	0-300	790	600	165	230	250	435	116	123	0-45°	197	4500	70	11

SIMPLE INDEXING SPACER
簡易型快速分度盤



OPTIONAL ACCESSORY:
6" 3-Jaw Chuck for CC-6",
8" 3-Jaw Chuck for CC-8"

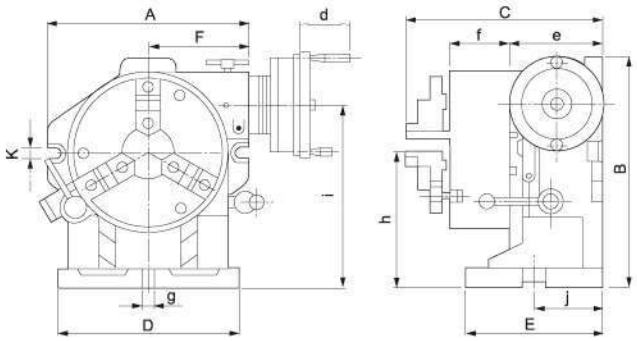


Model No.	Direct Dividing	A (mm)	B (mm)	C (mm)	D (mm)	a (mm)	b (mm)	h (mm)
CC-6	2, 3, 4, 6,8 ,12, 24	260	218	156	167	220	130	130
CC-8	2, 3, 4, 6,8 ,12, 24	318	318	177	210	228	140	150

Three Jaw	Width of Key(s) (g)	Outside Jaw	Inside Hole	Inside Hole of Ratary Tower	Weight (kgs)
4-42	16	10-156	44	36	32
4-62	16	10-180	63	63	70

SUPER INDEXING SPACER
強力型快速分度盤

OPTIONAL ACCESSORY:
6" 3-Jaw Chuck for CS-6",
8" 3-Jaw Chuck for CS-8"

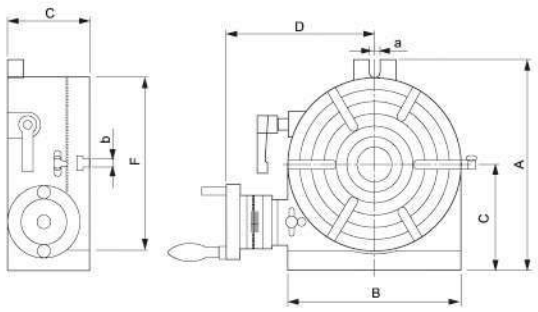




Model No.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	d (mm)	e (mm)	f (mm)	g (mm)	h (mm)	i (mm)	j (mm)	k (mm)	Weight (kgs)
CS-6	250	235	221	220	150	117	82	112	66	16	130	186	80	18	35
CS-8	315	292	243	225	160	142	110	125	75	16	157	241	90	18	70

Model No.	Direct Dividing	Outside Dia. of disc	Inside Jaw	Outside Jaw	Dia. of Central Hole	Outside Dia.	Thickness
CS-6	2, 3, 4, 6, 8, 12, 24	167	4-42	10-156	44	203	50
CS-8	2, 3, 4, 6, 8, 12,24	210	4-62	10-180	33	254	58

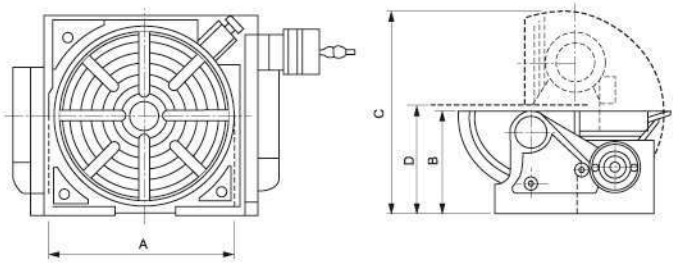
SUPER HORIZONTAL AND VERTICAL ROTARY TABLE
橫立兩用分度盤





Model No.	A(mm)	B(mm)	C(mm)	D(mm)	E	F(mm)	G(mm)	a(mm)	b(mm)	Weight (kgs)
HV-8	280	200	150	215	50(MT4)	200	120	16	12	33
HV-10	310	250	155	217	50(MT4)	250	120	16	12	43
HV-12	365	300	180	252	50(MT4)	300	120	16	15	57

UNIVERSAL TILTING ROTARY TABLE
萬能型傾斜式分度盤





Model No.	Index no.	Center	A(mm)	B(mm)	C(mm)	D(mm)	Gear Ratio	Weight (kgs)
HUT-300	24	MT#3	305	172	366	192	90 : 1	97

BT TYPE TAPER WIPER BT型 擦拭棒

Feature

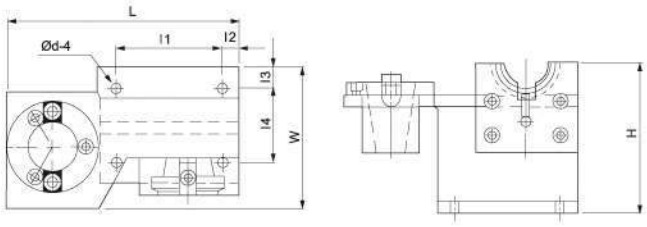
- 可清理主軸內部，不傷主軸，防止靜電產生，延長主軸使用壽命。
- It can clean inside slides of spindles to prevention of static electricity and to extend spindles and tapers durable life.



Model No.	Taper	N.W. (kgs)	G.W. (kgs)	Shipment Size(cm)	Material
W-30	#30	0.06	0.08	41 x 26.5 x 18	Non-woven fabric
W-40	#40	0.07	0.10	41 x 26.5 x 18	Non-woven fabric
W-50	#50	0.16	0.20	41 x 26.5 x 18	Non-woven fabric
W-30P	#30	0.06	0.08	41 x 26.5 x 18	Lambskin
W-40P	#40	0.07	0.10	41 x 26.5 x 18	Lambskin
W-50P	#50	0.16	0.20	41 x 26.5 x 18	Lambskin

TOOL HOLDER LOCKING DEVICE
鎖刀座

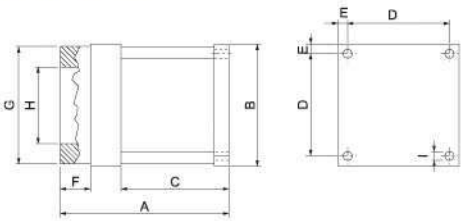
Feature
- 主體為鑄鐵，立式刀座為鋁製品。
- Cast Iron body, Aluminum vertical tool rest.





Model No.	Type	L (mm)	l1 (mm)	l2 (mm)	l3 (mm)	l4 (mm)	H (mm)	W (mm)	N.W. (kgs)	G.W. (kgs)	Shipment Size (cm)
LD-BT30A	BT30	210	95	10	15	67	130	100	3.6	3.7	22 x 11.5 x 14
LD-BT40A	BT40	210	95	10	15	67	130	100	3.7	3.9	22 x 11.5 x 14
LD-BT50A	BT50	275	113	20	24	105	200	150	11.0	11.4	29.5 x 17 x 21
LD-DIN40A	DIN40	210	95	10	15	67	130	100	3.6	3.8	22 x 11.5 x 14
LD-DIN50A	DIN50	275	113	20	24	105	200	150	10.8	11.2	29.5 x 17 x 21
LD-CAT40A	CAT40	210	95	10	15	67	130	100	3.6	3.8	22 x 11.5 x 14
LD-CAT50A	CAT50	272	113	20	24	105	200	150	10.8	11.2	29.5 x 17 x 21

TOOL HOLDER LOCKING DEVICE / HSK TYPE
鎖刀座/ HSK 型





Model No.	Type	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	N.W. (kgs)	G.W. (kgs)	Shipment Size (cm)
LDC-HSK32	HSK32	141	100	89	84	8	27	80	32	7	2.8	3.0	22 x 11.5 x 14
LDC-HSK40	HSK40	141	100	89	84	8	27	80	40	7	2.7	2.9	22 x 11.5 x 14
LDC-HSK50	HSK50	147	100	89	84	8	33	95	50	7	2.8	3.0	22 x 11.5 x 14
LDC-HSK63	HSK63	139	-	89	84	8	25	96.5	63	7	2.9	3.1	22 x 11.5 x 14

HSK TYPE TAPER WIPER
HSK型 擦拭棒



Model No.	Taper	N.W. (kgs)	G.W. (kgs)	Shipment Size (cm)
W-HSK40A	HSK40	0.08	0.10	41 x 29.5 x 20
W-HSK50H	HSK50 / HSK63F	0.08	0.12	41 x 29.5 x 20
W-HSK63H	HSK63	0.10	0.13	41 x 29.5 x 20
W-HSK100H	HSK100	0.50	0.70	41 x 29.5 x 20

52 PCS CLAMPING KITS
52 件萬能夾具

Contents

- 24 pcs. Stud each size x 4 pcs: 3", 4", 5", 6", 7", 8"
- 6 pcs Table slots (T-slot)
- 6 pcs Flanged nuts (4 pcs for CK-18, CK-20)
- 4 pcs Coupling nuts
- 6 pcs Step clamps
- 6 sets Step blocks
- 英制螺絲桿規格長度有：3", 4", 5", 6", 7", 8"各4支
- 6個T型螺帽
- 6個法蘭螺帽 (CK-18, CK-20 4個)
- 4個接頭螺帽
- 6個齒型壓板
- 6組齒型墊板



Model No.	T-Slot	Stud Size	Step Block Width	Weight (kgs)
CK-103A	7/16	3/8" - 16	1" (STB14, STB24, STB34)	7.00
CK-103B	1/2			7.00
CK-103C	9/16			7.00
CK-104A	9/16	1/2" - 12 or 1/2" - 13	1" or 1-1/4" (STB14, STB24, STB34) or (STB15, STB25, STB35)	10.5
CK-104B	5/8			10.5
CK-104C	11/16			10.5
CK-105A	11/16	5/8" - 11	1" or 1-1/4" (STB14, STB24, STB34) or (STB15, STB25, STB35)	12.5
CK-105B	3/4			12.5
CK-105C	13/16			12.5

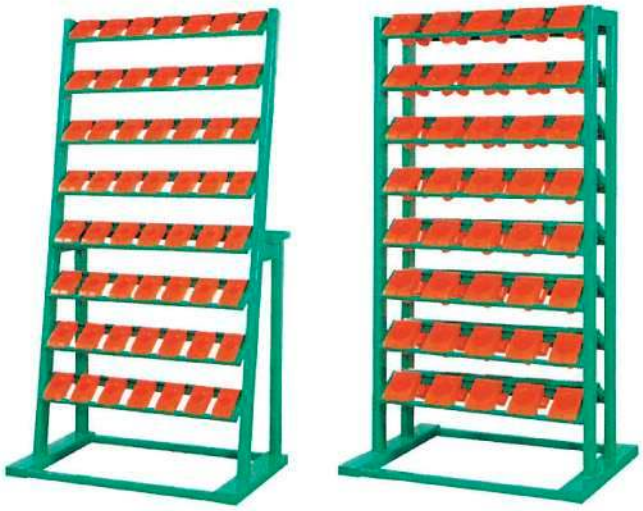
Model No.	T-Slot	Stud Size	Step Block Width	Weight (kgs)
CK-08	10	M8 x 1.25P	1" (STB14, STB24, STB34)	7.30
CK-10	12	M10 x 1.50P		8.00
CK-12A	14	M12 x 1.75P		10.0
CK-12B	16			10.0
CK-12C	18			10.0
CK-14	16	M14 x 2.0P		11.5
CK-16	18	M16 x 2.0P		13.0
CK-18	20	M18 x 2.5P	1-1/2"	25.7
CK-20	22	M20 x 2.5P		27.7

TOOL STAND-TABLETOP
桌上型刀具架



Model No.	斜度	Size (cm)	Tool Capacity (刀具盒)	Tool Capacity
GA-1S1L-3	ISO30	59 x 14 x 22	8	BT/NT/CAT/NC30
GA-1S1L-4	ISO40	59 x 14 x 22	7	BT/NT/CAT/NC40
GA-1S1L-5	ISO50	59 x 14 x 22	5	BT/NT/CAT/NC50

TOOL STAND
刀具架 - 單面&雙面



Packing: Bubble wrap.

Model No.	Shank Size	Size (mm)	Tool Capacity	N. W.(kgs)	G. W.(kgs)
GA-8S1L-3	ISO30	645 x 380 x 1720	64PCS	50	53
GA-8S1L-4	ISO40	645 x 380 x 1720	56 PCS	50	53
GA-8S1L-5	ISO50	645 x 380 x 1720	40 PCS	50	53
GA-8S2L-3	ISO30	645 x 380 x 1720	128 PCS	75	80
GA-8S2L-4	ISO40	645 x 380 x 1720	112 PCS	75	80
GA-8S2L-5	ISO50	645 x 380 x 1720	80 PCS	75	80

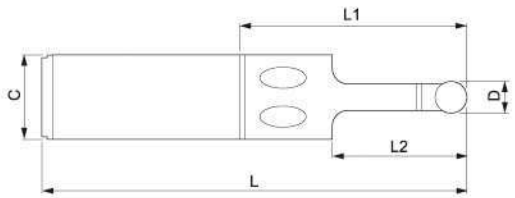
TOOL TROLLEY
刀具車



Packing: Carton

Model No.	Shank Size	Tool Capacity (刀具盒)	Drawer (附抽屜)	Size (mm)	N. W. (kgs)	G. W. (kgs)
#30 TOOL TROLLEY (刀具車)-FIG.1	BT/NT/CAT/NC30	32PCS	x	1050 x 600 x 800	37	40
#40 TOOL TROLLEY (刀具車)-FIG.1	BT/NT/CAT/NC40	28 PCS	x	1050 x 600 x 800	37	40
#50 TOOL TROLLEY (刀具車)-FIG.1	BT/NT/CAT/NC50	20 PCS	x	1050 x 600 x 800	37	40
#30 TOOL TROLLEY (刀具車)-FIG.2	BT/NT/CAT/NC30	32 PCS	2-SET	1050 x 600 x 800	55	60
#40 TOOL TROLLEY (刀具車)-FIG.2	BT/NT/CAT/NC40	28 PCS	2-SET	1050 x 600 x 800	55	60
#50 TOOL TROLLEY (刀具車)-FIG.2	BT/NT/CAT/NC50	20 PCS	2-SET	1050 x 600 x 800	55	60

TOUCH POINT SENSOR
光電式尋邊器





Accuracy: ±0.005

Model No.	C (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	Weight (kgs)
TS20	20	10	160	85	50	0.5
TS32	32	10	160	85	50	1
TS-B20	20	10	160	85	50	0.5
TS-B32	32	10	160	85	50	1

TOUCH POINT SENSOR
偏心式尋邊器



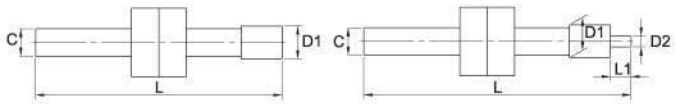


FIG.1 FIG.2 FIG.3

Model No.	Fig.	C (mm)	D1 (mm)	D2 (mm)	L (mm)	L1 (mm)
TS2-1020	1	10	10	-	82	-
TS2-0420	2	10	10	4	90	7.5
TS2-0610	3	10	-	6	65	11

CERAMIC EDGE FINDER
陶瓷尋邊器

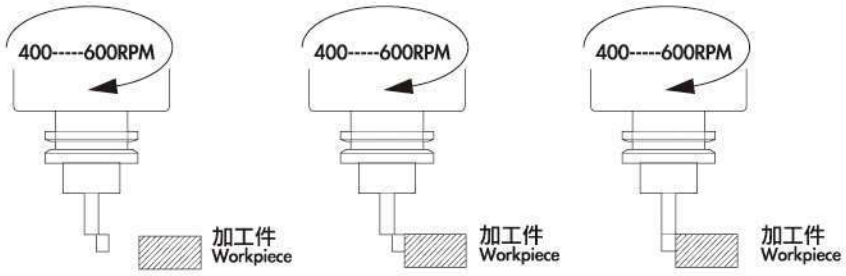
- 主軸迴轉後尋邊器慢慢靠近加工物
- 側定面慢慢移動至中心後急速偏出點就是測定值。
- 移送測定端子(10mm)的一半(5mm)即主軸與加工面之端面是同一面。
- After spindle rotate, edge tool approach work piece slowly.
- After side set face moving slowly to center, rapid excursion point is the measured data.
- Half of the transferred measured terminal is the same with the terminal of spindle.



CME-1020



CME-1010



MT4-001A INTERCHANGEABLE MEDIUM-DUTY CENTER
尖部替換式中重負荷迴轉頂針

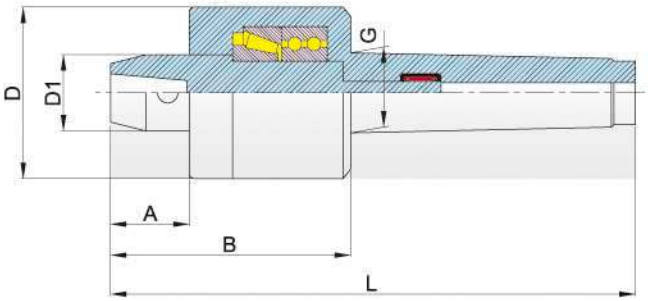
適用 APPLICATION
CNC 車床，高速車床。
CNC Lathes, High Speed Turning

精準度 ACCURACY
0.005以內 0.005m/m

配件 ACCESSORIES
標配 Included tips

結構 CONSTRUCTION
圓錐滾子軸承，複列角接觸滾珠軸承，薄殼型針狀軸承。
The center use precision angular contact ball bearing, thrust bearing & needle bearing.

用途 PURPOSE
適用長度500m/m以內軸心中重車削加工。
Applicable to medium and heavy loads for CNC lathes, shaft length within 500mm.

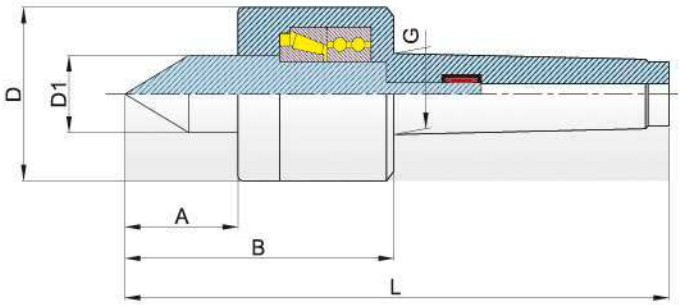




單位:mm

型式/外表尺寸 MODEL	A	B	D	D1	G	L	軸承最高轉數 MAX R.P.M	軸承徑向力(載重)	軸承軸向力(推力)
MT4-001A	31.5	96.5	67.5	30.0	31.65 (MT4)	208	4500 rpm	2.930 kg	2,100 kg

MT4-001B MEDIUM-DUTY LATHE CENTER
尖部固定式中重負荷迴轉頂針





單位:mm

型式/外表尺寸 MODEL	A	B	D	D1	G	L	軸承最高轉數 MAX R.P.M	軸承徑向力(載重)	軸承軸向力(推力)
MT4-001B	49	113	67.5	30.0	31.65 (MT4)	224	4500 rpm	2.930 kg	2,250 kg

MT5-002A INTERCHANGEABLE MEDIUM-DUTY CENTER
尖部替換式中重負荷迴轉頂針

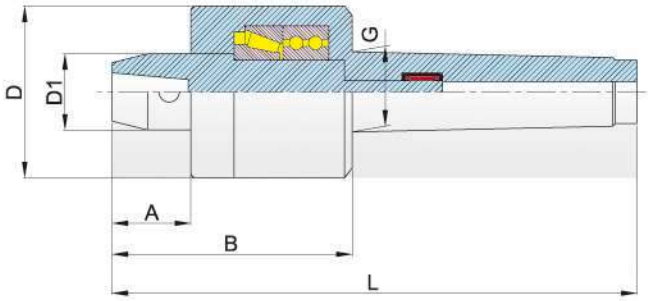
適用 APPLICATION
CNC 車床，高速車床。
CNC Lathes, High Speed Turning

精準度 ACCURACY
0.005以內 0.005m/m

配件 ACCESSORIES
標配 Included tips

結構 CONSTRUCTION
圓錐滾子軸承，複列角接觸滾珠軸承，薄殼型針狀軸承。
The center use precision angular contact ball bearing, thrust bearing & needle bearing.

用途 PURPOSE
適用長度500m/m以內軸心中重車削加工。
Applicable to medium and heavy loads for CNC lathes, shaft length within 500mm.

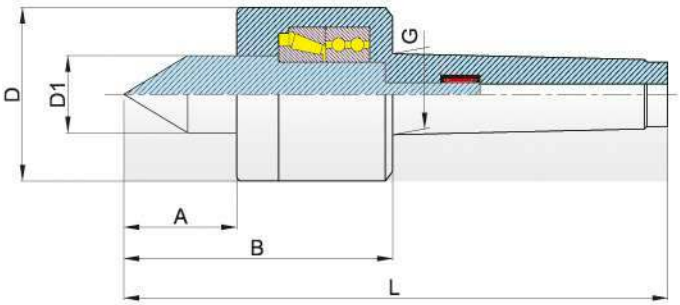




單位:mm

型式/外表尺寸 MODEL	A	B	D	D1	G	L	軸承最高轉數 MAX R.P.M	軸承徑向力(載重)	軸承軸向力(推力)
MT5-002A	31.5	96.5	67.5	30.0	44.85 (MT5)	232	4500 rpm	2.930 kg	2,100 kg

MT5-002B MEDIUM-DUTY LATHE CENTER
尖部固定式中重負荷迴轉頂針

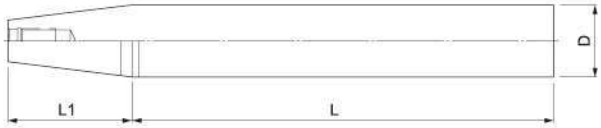




單位:mm

型式/外表尺寸 MODEL	A	B	D	D1	G	L	軸承最高轉數 MAX R.P.M	軸承徑向力(載重)	軸承軸向力(推力)
MT5-002B	49	113	67.5	30.0	44.85 (MT4)	248	4500 rpm	2.930 kg	2,250 kg

TEST BAR
測試棒





Model No.	ØD (mm)	L (mm)	L1 (mm)	Roundness	Concentricity
ISO30-32-150	32	150	49.95	<0.0015	<0.003
ISO30-32-200	32	200	49.95	<0.0015	<0.003
ISO30-32-250	32	250	49.95	<0.002	<0.004
ISO30-32-300	32	300	49.95	<0.002	<0.004
ISO40-45-150	45	150	67.85	<0.0015	<0.003
ISO40-45-200	45	200	67.85	<0.0015	<0.003
ISO40-45-250	45	250	67.85	<0.002	<0.004
ISO40-45-300	45	300	67.85	<0.002	<0.004
ISO40-45-350	45	350	67.85	<0.002	<0.005
ISO50-60-200	60	200	105	<0.0015	<0.003
ISO50-60-250	60	250	105	<0.002	<0.004
ISO50-60-300	60	300	105	<0.002	<0.004
ISO50-60-350	60	350	105	<0.002	<0.005
ISO50-60-400	60	400	105	<0.002	<0.005

DIAL GAUGE TOOL LENGTH SETTER
Z 軸高度設定器

特點:

- 常用在電腦銑床/車床上設定刀。
- 測量高度：50.00±0.005mm。
- 彈簧力較小，可避免小銑刀或鑽頭斷裂。
- 用研磨過的平行板即可簡單設定。
- 可用六角扳手調整側台高度。
- 可用六角扳手調整指針歸零。
- 新型Z軸設定器出場時已經校正設定完成，下刀行程是1mm，客戶使用起來更方便。

台灣專利字號：TW PAT. M376374
TW PAT. M379484
中國專利字號：ZL 2009 2 0251699.3





Model No.	Accuracy	Weight (kgs)	Package Size(mm)	備註 Remarks
NZH-50A	50mm ±0.005mm	1.3	50 x 63 x 63	底部有磁性 Magnetic bottom
NZH-50B	50mm ±0.005mm	1.3	50 x 63 x 63	底部無磁性 Non-magnetic bottom

END MILL GRINDER
銑刀研磨機



銑刀研磨附件
END mill grinding attachment



鑽頭研磨附件
Twist drill grinding attachment



車刀研磨附件
Lathe tool grinding attachment



鑽石砂輪
Diamond grinding wheel



U2

規格表 Technical date	Model no : U2
最大夾持直徑 Max. collet capacity	Ø18mm
最大研磨直徑 Max. frinding dia.	Ø25mm
推拔角度 Taper angle	0° ~ 180°
離隙角 Relief angle	0° ~ 45°
負推拔角度 Negative angle	0° ~ 26°
主軸轉速 Grinding spindle	3600 r.p.m.
皿型砂輪直徑 Cup grinding wheel	100 x 50 x 20mm
馬達 Motor	1/3 HP 220V 50/60HZ
淨重 Net weight	45 Kgs
機械尺寸 Machine dimensions (LxW H)	45 x 40 x 35 cm
包裝材積 Packing dimensions (LxWxH)	55 x 45 x 47 cm

由於特殊之設計，萬能分度頭除有推拔角，離隙角之設置外，亦可提供360°, 180°之旋轉，研磨各種圓、半圓、正斜度、倒錐度、直角之單鋒刀具。此外分度頭亦可作每隔15°之設定，研磨各種方形、菱形、三角形之刀具沖子等。加上特殊配件並可研磨端銑刀之螺旋刃口，標準鉆頭及車刀等。

For grinding HSS and carbide engraving cutter as well as single lip or multiple lip cutters of various shapes such as radiused cutters or negative taper angle of cutters.

The universal index head is provided at 24 position so that any particular angle or shape can be obtained, both 360° or 180° rotation is allowed for grinding End Mills. Twist Drill, Lathe Tools, only replace the attachment to the index head without any complex setup.

標準附件 Standard Accessory

1. 鑽石修刀 Wheel dresser with diamond 1pc
2. 砂輪法蘭 Wheel flange (mounted) 1 pc
3. 砂輪 Grinding wheel 1 pc
4. 筒夾 Collect Ø4 , 6 , 8 , 10 , 12 mm 5 pcs
5. 校直器 Aligning finger (4 , 6 , 8 , 10 , 12mm) 1 pc
6. 皮帶 Drive belt 1 pc
7. 裝砂輪固定梢 Lock pin 1 pc
8. 固定砂輪工具 Tools 1 pc

特別附件 Optional Accessory

1. 鑽頭研磨附件 Twist drill grinding attachment
2. 銑刀研磨附件 END mill grinding attachment
3. 車刀研磨附件 Lathe tool grinding attachment
4. 砂輪平衡架 Grinding wheel balancing stand
5. 筒夾 Collect (extra 1, 2, 2.5, 3, 5, 7, 9, 18, 20, 25mm and1/8", 3/16", 1/4", 5/16", 3/8", 1/2", 5/8")
6. 鑽石砂輪 Diamond grinding wheel
7. 刀具研磨附件 Ø20 , 25 Cutter
8. 工具櫃 Tool cabinet

DRILL RE - SHARPENING MACHINE
鑽頭研磨機

特點：

- 本機有CE安全認證。
- 操作簡單快速，品質穩定。
- 先端角由 90°~ 135° (一般適用118°)。
- 靜點研磨，可以依需求做調整。(一般適用0.7mm)。
- 首創上下擺動研磨方式，磨出來的鑽頭最鋒利、最耐用。



Feature

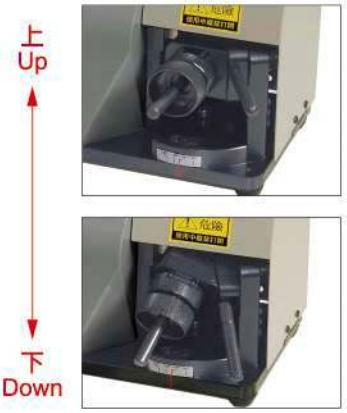
- This machine has the " CE safety authentication ".
- Operates is fast and simple. The quality is stable.
- Point Angle 90° ~ 135°. (Generally is suitable 118°)
- Chisel edge grinding. Can adjusting by your demand. (Generally is suitable 0.7mm).
- It's the first to research and development "up to down" swinging grinding way. The finished drill is sharpest, and the most durable.



- 本公司研發上下擺動磨出來的鑽頭，非常鋒利。
- Our company's new research, swing the drill grinding from up to down, very sharp.



- 一般左右轉動研磨出來的鑽頭，比較鈍。
- Generally rotate the drill grind left to right, it's blunt.



首創上下擺動的研磨方式
First to research and development "Up to Down" swinging grinding way

- 研磨鑽頭的方式，上下擺動為最標準的的研磨方法，磨出來的鑽頭最鋒利、最耐用。
- The way to grind drill, swing for the most standard, method of grinding from up to down. The finished drill is sharpest and the most durable.

項目 Item	JD-213	JD-1326
鑽頭直徑 Drill Diameter	Ø2 ~ Ø13mm	Ø13 ~ Ø26mm
先端角 Point Angle	90° ~ 135°	90° ~ 135°
電源 Power Supply	單相 Single phase AC110V AV220V	單相 Single phase AC110V AV220V
回轉 R.P.M. of motor	5100 rpm	4200 rpm
鑽石砂輪 Grinding Wheel	CBN#200 (一般HSS鑽頭專用)	CBN#150 (一般HSS鑽頭專用)
重量 Net Weight	8 kgs	26 kgs
尺寸 Size	31 x 17 x 19 cm	31 x 17 x 19 cm
標準附件 Standard Accessories	筒夾Collet ×11pcs 夾頭組holder×1set 六角板手Hexagon wrench 4mm/6mm各一支	筒夾 Collet ×14pcs 夾頭組 Holder×1set 六角板手 Hexagon wrench 4mm/6mm各一支

CONTACT TYPE TOOL PRESETTER - FIXED SPINDLE. SIMPLIFIED STRUCTURE
接觸式刀具設定儀 - 固定式主軸簡易型

標準配備
試棒:1隻 (D40, L200)
百分錶:2只
六角扳手:1組
防塵套:1件

選購配備
套筒:
ISO40#, 30#
HSK-63, 50, 40

Standard
Test Arbor:1 PC (D40, L200)
Dial Gauge: 2 PCS
Hex. Wrench: 1 SET
Dust Cover: 1 PC

Optional
Sleeve:
ISO40#, 30#
HSK-63, 50, 40



DH-3300



DH-4400

項目 Item	DH-3300 無快速位移 No fast traverse	DH-4400 快速位移 Fast traverse
規格 Specification	ISO-40# / ISO-50#	ISO-40# / ISO-50#
行程 Range of measurement	D: Ø300, L: 60~300	D: Ø300, L: 60~400
解析度 Resolution	0.005	0.005
淨重/公斤 N.W./kgs	43	85
毛重/公斤 G.W./kgs	65	130
木箱尺寸/公分 CTN	73 x 46 x 86 cm	73 x 93 x 120 cm

CONTACT TYPE TOOL PRESETTER - ROTATING SPINDLE. PROFESSIONAL.
接觸式刀具設定儀 - 旋轉式主軸專業型

標準配備
1.試棒:1隻 (D40, L200)
2.百分錶:2只
3.六角扳手:1組
4.防塵套:1件

選購配備
1.套筒:
ISO40#, 30#
HSK-63, 50, 40
2.真空拉緊氣壓
3.RS232界面
4.連線軟體

Standard
1. Test Bar:1 PC (D40, L200)
2. Dial Gauge: 2 PCS
3. Hex. Wrench: 1 SET
4. Dust Cover: 1 PC

Optional
1.Sleeve:
Taper:
ISO40#, 30#
HSK-63, 50, 40
2.Tooling vacuum locking device.
3.RS232 Interface
4.Standard sofware



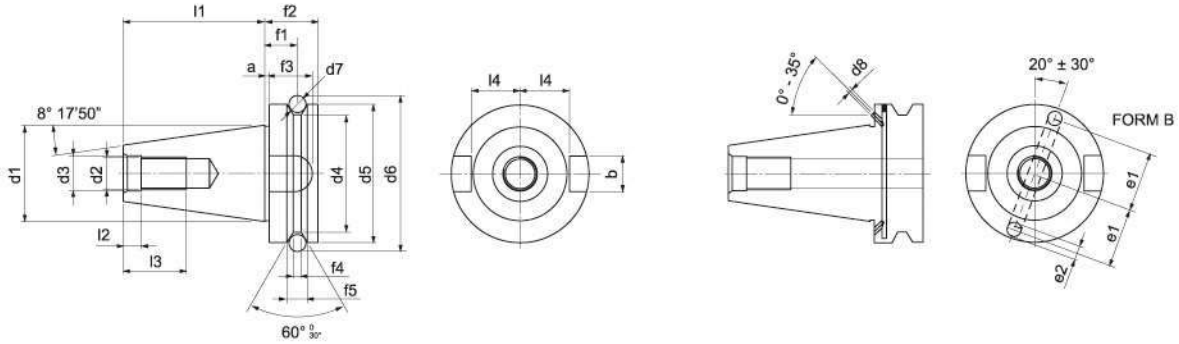
DH-4400E



DH6600E

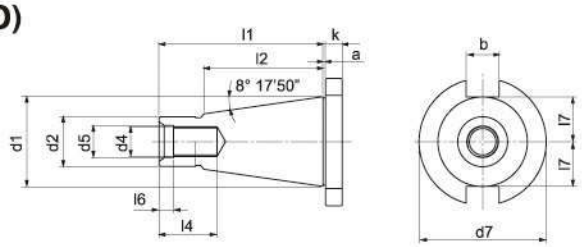
項目 Item	DH-4400E 快速位移 Fast traverse	DH-6600E 快速位移 Fast traverse
規格 Specification	ISO-50#	ISO-50#
行程 Range of measurement	D: Ø300, L: 60~400	D: Ø500, L: 60~600
解析度 Resolution	0.001	0.001
淨重/公斤 N.W./kgs	100	150
毛重/公斤 G.W./kgs	150	215
木箱尺寸/公分 CTN	73 x 93 x 120 cm	90 x 105 x 140 cm

BT SHANK (MAS403)



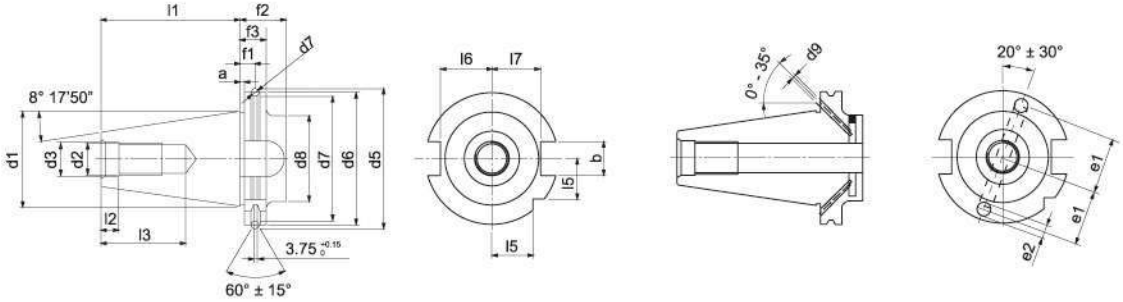
SHANK SIZE	a	b	d1	d2	d3	d4	d5	d6	d7	d8	e1	e2	f1	f2	f3	f4	f5	l1	l2	l3	l4
BT30	2	16.1	31.75	M12	12.5	38	45	53.144	8	4	21	5	13.6	22	17	4	8	48.4	7	24	16.3
BT40	2	16.1	44.45	M16	17	53	63	75.379	10	4	27	5	16.6	27	21	5	10	65.4	9	30	22.6
BT50	3	25.7	69.85	M24	25	85	100	113.013	15	6	42	7	23.2	38	31	7	15	101.8	13	45	35.4

NT SHANK (DIN2080)



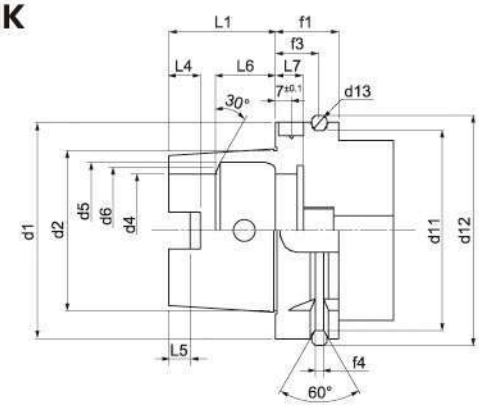
SHANK SIZE	a	b	d1	d2	d4	d5	d7	k	l1	l2	l4	l6	l7
NT30	1.6	16.1	31.75	17.4	1/2" - 12 M12 x 1.75P	13	50	8	68.4	48.4	24	5.5	16.2
NT40	1.6	16.1	44.45	25.3	5/8" - 11 M16 x 2.0P	17	63	10	93.4	65.4	32	8.2	22.5
NT50	3.2	25.7	69.85	39.6	1" - 8 M24 x 3.0P	26	97.5	12	126.8	101.8	47	11.5	35.3

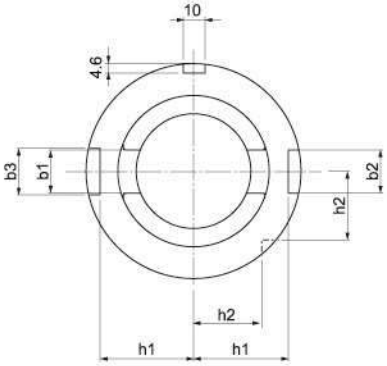
SK SHANK (DIN6987IA)

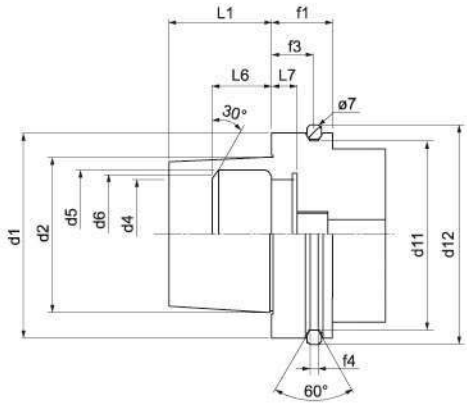


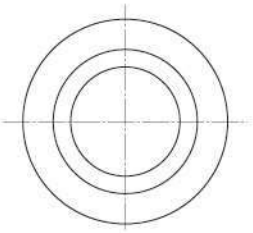
SHANK SIZE	a	b	d1	d2	d3	d5	d6	d7	d8	d9	e1	e2	f1	f2	f3	l1	l2	l3	l5	l6	l7
SK30	3.2	16.1	31.75	M12	13	59.3	50	44.3	45	4	21	5	11.1	35	19.1	47.8	5.5	24	15	16.4	19
SK40	3.2	16.1	44.45	M16	17	72.3	63.55	53.25	50	4	27	5	11.1	35	19.1	68.4	8.2	32	18.5	22.8	25
SK50	3.2	25.7	69.85	M24	25	107.25	97.5	81.25	80	6	42	7	11.1	35	19.1	101.75	11.5	47	30	35.5	37.7

HSK-A E SHANK (DIN69893)

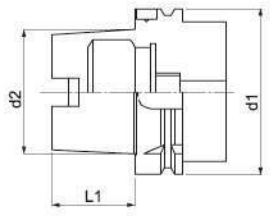






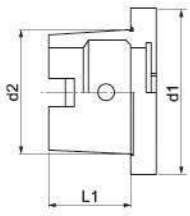


SHANK SIZE	b1	b2	b3	d1	d2	d4	d5	d6	d11	d12	d13	f1	f3	f4	h1	h2	L1	L4	L5	L6	L7
HSK32	7.05	7	9	32	24	17	21	13	26.5	37	4	20	16	2	13	9.5	16	5	3	8.92	8
HSK40	8.05	9	11	40	30	21	25.5	23	34.8	45	4	20	16	2	17	12	20	6	3.5	11.42	8
HSK50	10.54	12	14	50	38	26	32	29	43	59.3	7	26	18	3.75	21	15.5	25	7.5	4.5	14.13	10
HSK63	12.54	16	18	63	48	34	40	37	55	72.3	7	26	18	3.75	26.5	20	32	10	6	18.13	10
HSK100	20.02	20	22	100	75	53	63	53	92	109.75	7	29	20	3.75	44	31.5	50	15	10	28.56	12.5



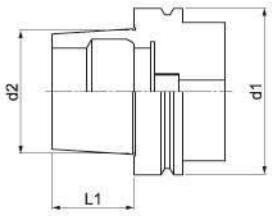
HSK-A

HSK-A	d1	d2	L1
32	32	24	16
40	40	30	20
50	50	38	25
63	63	48	32
100	100	75	50



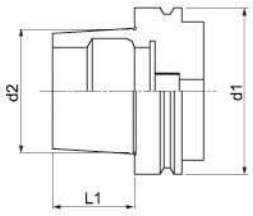
HSK-C

HSK-C	d1	d2	L1
32	32	24	16
40	40	30	20
50	50	38	25
63	63	48	32
100	100	75	50



HSK-E

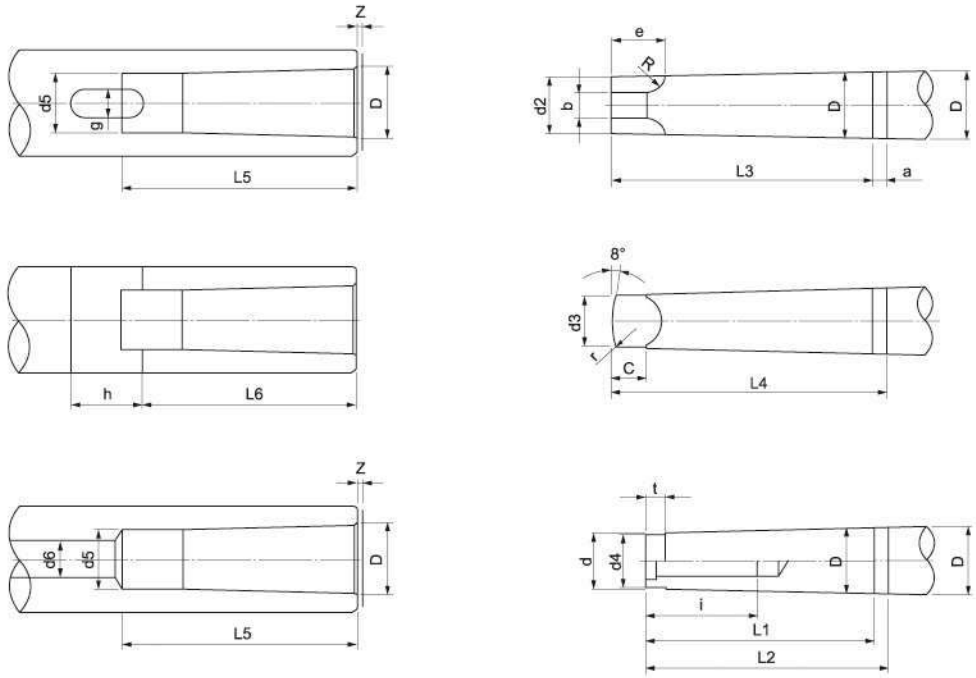
HSK-E	d1	d2	L1
32	32	24	16
40	40	30	20
50	50	38	25
63	63	48	32



HSK-F

HSK-F	d1	d2	L1
50	50	30	20
63	63	38	25

TECHNICAL INFORMATION OF MT. SHANK (DIN228 A & B)
莫式錐度/斜度鑽頭



		莫式錐度(MTNO)							
		0	1	2	3	4	5	6	7
	錐 度	1:19.212 =0.052 05	1:20.047 =0.049 88	1:20.020 =0.049 95	1:19.922 =0.050 20	1:19.254 =0.051 94	1:19.002 =0.052 63	1:19.180 =0.052 14	1:19.231 =0.052 00
	D	9.045	12.065	17.78	23.825	31.267	44.399	63.348	83.058
	a	3	3.5	5	5	6.5	6.5	8	10
	D1	9.2	12.2	18	24.1	31.6	44.7	63.8	83.6
	d	6.4	9.4	14.6	19.8	25.9	37.6	53.9	70
	d1	-	M6	M10	M12	M16	M20	M24	M33
	d2	6.1	9	14	19.1	25.2	36.5	52.4	68.2
	d3 max.	6	8.7	13.5	18.5	24.5	35.7	51	66.8
	d4 max.	6	9	14	19	25	35.7	51	65
外	L1 max.	50	53.5	64	81	102.5	129.5	182	250
	L2 max.	53	57	69	85	109	136	190	260
側	L3 max.	56.5	62	75	94	117.5	149.5	210	286
	L4 max.	59.5	65.5	80	99	124	156	218	296
直	bh13	3.9	5.2	6.3	7.9	11.9	15.9	19	28.6
	c	6.5	8.5	10	13	16	19	27	35
徑	e max.	10.5	13.5	16	20	24	29	40	54
	i min.	-	16	24	28	32	40	50	80
	R max.	4	5	6	7	8	10	13	19
	r.	1	1.2	1.6	2	2.5	3	4	5
	t max.	4	5	5	7	9	9	12	18.5
	d5 H11	6.7	9.7	14.9	20.2	26.5	38.2	54.6	71.7
	d6	-	7	11.5	14	18	23	27	30
	L5 max.	52	56	67	84	107	135	188	258
	L6 max.	49	52	62	78	98	125	177	241
	g A13	4.1	5.4	6.6	8.2	12.2	16.2	19.3	28.8
	h	15	19	22	27	32	38	47	69
	z	1	1	1	1	1.5	1.5	2	2

億錡專業CNC工具

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