



ANN WAY
MACHINE TOOLS



Holding Your Future
TOOLING SYSTEM

Holding Your Future

TOOLING SYSTEM

www.annwaytools.com.tw



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

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

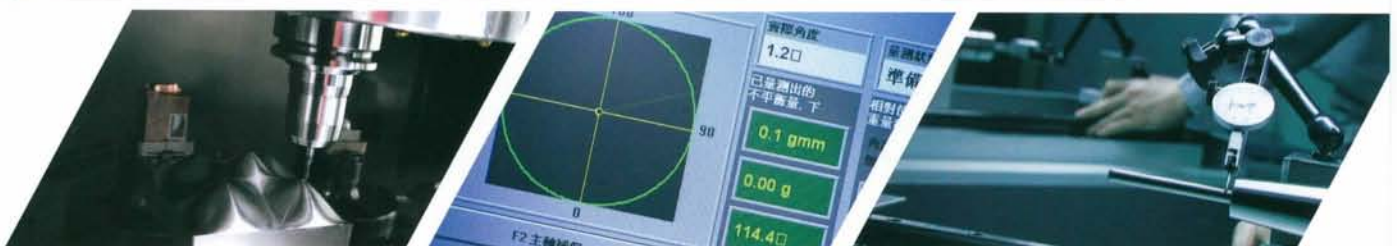
Our ASK, ADS, AVC and ASG series products meet the demands of high speed, high precision machining.

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

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



 **FULL HD ONLINE**





















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

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



CONTENTS (1)

MAS403 BT / NT SERIES

ASG HIGH SPEED MILLING CHUCK  ASG 高轉速精密強力銑刀夾頭	Page 1	ASK HIGH SPEED COLLET CHUCK  BT30,BT40,BT50 高轉速精密筒夾本體	Page 13 14
ASC HIGH SPEED MILLING CHUCK  ASC 高轉速精密強力銑刀夾頭	2	ASK COLLET SET/WRENCH/NUT  ASK 精密筒夾組 WASK 軸承板手 ASK NUT 螺帽	15
ASC MILLING CHUCK  BT30,BT40,BT50 強力銑刀夾頭 NT30/NT40/NT50 強力銑刀夾頭 MT3/MT4/MT5/MT6 莫式錐度強力銑刀夾頭 R8 強力銑刀夾頭	3 4	AVC HIGH SPEED COLLET CHUCK  BT30 / BT40 / BT50 高轉速高精度立銑刀本體	16
STRAIGHT COLLETS / COLLET SET / WRENCH  SC直束筒夾/索咀 直束筒夾組 WASG軸承板手 WASC-C型板手	5	AVC COLLET/ WRENCH/ NUT  AVC COLLET 高精度立銑刀筒夾 AVC WRENCH 軸承板手 AVC NUT 螺帽	17
ER COLLET CHUCK FOR ER COLLET TYPE  BT30,BT40,BT50 彈性筒夾本體 NT30,NT40,NT50 彈性筒夾本體 MT2,MT3,MT4,MT5 莫式錐度彈性筒夾本體	6 7	ADS HIGH SPEED COLLET CHUCK  BT30, BT40, BT50 後拉夾頭刀把 COOLANT (CL) TYPE 後拉夾頭刀把-冷卻液貫穿型	18
ER COLLET CHUCK FOR ER COLLET TYPE  C20,C25,C32,C40 直柄彈性筒夾本體 C16,C20,C25(M TYPE) 直柄彈性筒夾本體 R8 彈性筒夾本體 JT 內孔鑽頭彈性筒夾本體	8	STRAIGHT SHANK HIGH SPEED CHUCK & ADS COLLET  C16/C20/C25 直柄後拉夾頭刀把 ADS COLLET 後拉筒夾	19
ERA HIGH SPEED COLLET CHUCK  BT30,BT40,BT50 高速彈性筒夾本體 NUT螺帽 WERA板手	9	ASR SHRINK CHUCK  BT30, BT40, BT50 燒結式刀把	20
ER COLLETS  ER11, ER16, ER20, ER25, ER32, ER40 彈性筒夾 / 索咀	10	INDUCTION SHRINK MACHINE  燒結機・冷卻機	21
ER COLLETS SETS  ER11/ER16/ER20/ER25/ER32/ER40 彈性筒夾組	11	OZ COLLET CHUCK  BT40,BT50 重切削筒夾本體 NT30/NT40/NT50 重切削筒夾本體 MT5 重切削筒夾本體 R8 重切削筒夾本體	22
ER CLAMPING NUTS/BEARING NUT  STANDARD 普通螺帽 STANDARD 普通螺帽 M-TYPE M型螺帽 BEARING 鋼珠螺帽	12	OZ COLLET CHUCK SET/NUT/WRENCH  OZ 重切削筒夾組 OZ 重切削筒夾/索咀 OZ NUT 重切削OZ螺帽 OZ WRENCH 板手	23
ER CLAMPING/WRENCH/BEARING WRENCH  STANDARD 普通螺帽板手 STANDARD 普通螺帽板手 M-TYPE M型螺帽板手 BEARING 鋼珠螺帽板手	12	SLA END MILL HOLDER  BT30,BT40,BT50 側固端銑刀把 NT30, NT40, NT50 側固端銑刀把 R8 側固端銑刀把	24 25



CONTENTS (2)

MAS403 BT / NT SERIES

EM END MILL HOLDER-WELDON  BT30, BT40, BT50 側固端銼刀把	Page 26	TAP HOLDER  C20 筒式攻牙本體  JT2/JT6 筒式攻牙本體  BT50/NT50/MT5 伸縮攻牙本體	Page 39
APU DRILL CHUCK HOLDER  BT30, BT40, BT50 直截式鉗夾頭刀把  NT30, NT40, NT50 直截式鉗夾頭刀把	27	TPG TAP COLLET, ADAPTER / AIR TAPPING MACHINE  TPG875 攻牙筒夾  TPCC875 轉換器  VERTICAL AIR TAPPING MACHINE 萬向氣動攻牙機	40
APU INTERGAL KEYLESS DRILL CHUCK HOLDER  MT2/MT3/MT4 莫氏錐度鉗夾頭刀把  C12/C16/C20/C25/C32 直柄鉗夾頭刀把  R8 鉗夾頭刀把	28	ART RIGID TAP HOLDER / ATP TENSION & COMPRESSION TAP HOLDER  BT30/BT40/BT50 剛性攻牙本體  BT30/BT40/BT50 伸縮攻牙本體	41
JTA DRILL CHUCK HOLDER  BT30, BT40, BT50 鉗夾頭刀把  NT30, NT40, NT50 鉗夾頭刀把	29	ATC 312 & ATC822 TAP COLLET  TORQUE CONTROL TYPE 扭力絲攻筒夾  POSITIVE DRIVE TYPE 剛性絲攻筒夾	42 43
JTA DRILL CHUCK HOLDER & KEY TYPE TAPER MOUNT #113  MT2/MT3/MT4 莫氏錐度鉗夾頭刀把  C20/C25 直柄鉗夾頭刀把  R8 鉗夾頭刀把 #113 Key Type Taper Mount" data-bbox="405 415 495 450"/> #113 鉗夾頭	30	TER TAP HOLDER-TENSION & COMPRESSION TAP HOLDER  BT30/BT40/BT50 伸縮攻牙本體  C20, C25, C32, C40 直柄伸縮攻牙本體	44
KEYLESS DRILL MOUNT #122 & #123  #122 Special Heavy Duty Model 鉗夾頭-特重型系列  #123 Heavy Duty Model 鉗夾頭-重型系列	31	DT24/ DT33 DRILL TAPER SET  DT33/ DT24旋臂鑽床攻牙組	45 46
MTA MORSE TAPER HOLDER  BT30, BT40, BT50 莫氏斜度刀把A型  NT30, NT40, NT50 莫氏斜度刀把A型  R8 莫氏斜度刀把A型	32 33	DT52 DRILL TAPER SET  DT52旋臂鑽床攻牙組	47
MTA MORSE TAPER SLEEVE & EXTENSION  MT3, MT4, MT5 莫氏鉗頭套筒  MT3, MT4, MT5 莫氏延長鉗頭套筒  MT3, MT4, MT5 直柄莫氏斜度套筒	34	FMA FACE MILL HOLDER-INCH  BT30/BT40/BT50 平面銼刀把  NT30/NT40/NT50 平面銼刀把  Long Type 平面銼刀把-加長  R8 平面銼刀把	48 49
MTB MORSE TAPER HOLDER  BT30, BT40, BT50 莫氏斜度刀把B型  MTB PULL STUD 長拉頭	35	FMB FACE MILL HOLDER-METRIC  BT30/BT40/BT50 平面銼刀把  NT30/NT40/NT50 平面銼刀把  R8 平面銼刀把	50 51
TPM TAP HOLDER-TENSION & COMPRESSION TAPER HOLDER  BT30, BT40, BT50 扭力伸縮攻牙本體  NT30, NT40, NT50 扭力伸縮攻牙本體	36	HMA HORIZONTAL MILL ARBOR  NT40/NT50 橫銼刀把	51
TPM TAP HOLDER / TPC316 & TPC830 TAP COLLET  MT3, MT4, MT5 扭力伸縮攻牙本體  TAP COLLET/ TPC316 & TPC830 扭力絲攻筒夾	37 38	SMA SHELL MILL HOLDER  BT30/BT40/BT50 殼銼刀把	52



CONTENTS (3)

MAS403 BT / NT SERIES

BCK MICRO BORING HEAD



BCK微調精磨頭

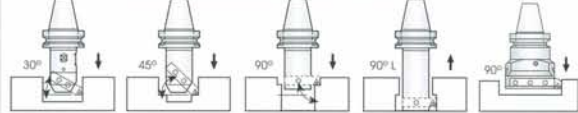


BCK微調精磨頭

Page

53

THROW AWAY BORING CUTTER



捨棄式刀刃磨孔刀架

Page

71

ACK/BCK ADJUSTABLE BALANCE CUTTER TOOL HOLDER



BT30/BT40/BT50
磨孔刀柄



NT40/NT50
磨孔刀柄

54

55

BCA MICRO BORING BAR



BT30/BT40
微調精磨刀把



BT50
微調精磨刀把

72

73

ACK ADJUSTABLE BALANCE CUTTER & EXTENSION ADAPTER



雙刃粗磨刀頭
Ø19~Ø122mm



雙刃刀頭延長桿

56

BCA / MBT SQUARE MICRO BORING BAR



MBT16/MBT19/MBT25
方型精磨刀桿

73

TIPS APPLICABLE INSERT TIP FOR ACK BALANCE CUTTER



CCMT 刀片



TCMT 刀片

57

BCT LARGE MICRO BORING BAR WITH SLIDE BLOCK



BT50
大孔徑滑板式精磨刀桿



BCT
刀盤

74

BST ADJUSTABLE BALANCE CUTTER TOOL HOLDER



BT50
大口徑雙刃粗磨刀柄



NT50
大口徑雙刃粗磨刀柄



大口徑雙刃粗磨刀頭
Ø120~Ø500mm

58

SANDVIK T-MAX U FINE BORING UNIT & ADAPTER / TSA



SANDVIK
精磨頭 (瑞典)



TSA
轉接器

75

TIPS APPLICABLE INSERT TIP FOR ACK BALANCE CUTTER



CCMT 刀片



TCMT 刀片

59

AMD SCREW-IN ENDMILL ARBOR



BT40/BT50
圓刃銑刀把



CORNER ROUNDING END MILLS
圓刃銑刀把



76

FIXED ROUGH BORING BAR



固定式粗磨刀桿



60

61

CORNER ROUNDING END MILLS (RD)



RD圓刃銑刀



RD刀片



77

78

SCA SIDE CUTTER ARBOR



BT30/BT40/BT50
側銑刀把



NT30/NT40/NT50
側銑刀把

62

63

ABH / ABH-SB BORING HEAD UNIT



ABH微調精磨頭-日製



ABH-SB微調精磨頭-日製

NT SHANK



BT SHANK



MT SHANK

79

BSA BORING BAR



BT30/BT40/BT50
粗磨刀把



NT30/NT40/NT50
粗磨刀把



MT3/MT4/MT5/MT6
粗磨刀把

64

66

ABH FINE / ROUGH BORING HEAD UNIT



ROUGH BORING HEAD
粗磨頭-台製

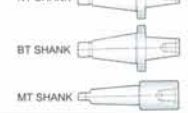


FINE BORING HEAD
微調精磨頭-台製

NT SHANK



BT SHANK



MT SHANK

80

BSB BORING BAR



BT30/BT40/BT50
粗磨刀把



NT30/NT40/NT50
粗磨刀把



MT3/MT4/MT5/MT6
粗磨刀把

67

69

ABH MICRO BORING BAR



BT30/BT40/BT50
微調精磨刀桿



NT30/NT40/NT50
微調精磨刀桿



MT4/MT5/MT6
微調精磨刀桿

81

83

BST LARGE SIZE BORING BAR & BORING BLOCK



BT50大孔徑粗磨刀柄



NT50大孔徑粗磨刀柄



BST刀盤

70

NBJ16 MICRO BORING BAR



NBJ16
微調磨孔系統



BJ16 BORING BAR SET
磨刀組

84



CONTENTS (4)

BT/NT/NBT SERIES & HSK SERIES E/A TYPE

BORING HEAD & BORING PART  搪孔刀頭 & 配件	Page 85	TA TEST BAR  BT40/BT50 測試棒 NT30/NT40/NT50 測試棒 R8 測試棒	Page 96
BORING HEAD & BORING PART  搪孔頭 套筒 鎢鋼柄搪刀桿	Page 86	ISO TAPER ISO 20/25/30 BALANCED TOOL HOLDER  ISO20/25/30-CNC 木工機 / 雕刻機 ER TYPE ASK TYPE	Page 97
NBJ16 MICRO BORING BAR SYSTEM  NBJ16-BM1625 MICRO BORING BAR Ø29-Ø68 精搪刀桿	Page 87	ISO TAPER ISO 30 BALANCED TOOL HOLDER  ISO30 木工機 / 雕刻機 OZ COLLET CHUCK 重切削筒夾體 FMA TYPE	Page 98
NBH2084 MICRO BORING BAR  NBH2084 微調搪孔系統 BJ20 BORING BAR SET 搪刀組	Page 88	NBT HOLDER WITHOUT KEYWAY / NBT30 無鍵槽刀桿  ER COLLET CHUCK 彈性筒夾本體 ASK HIGH SPEED COLLET 彈性筒夾本體	Page 99
HBOR50 MICRO BORING BAR  HBOR50 微調搪孔系統組	Page 89	ASK / ADS HIGH SPEED COLLET CHUCK  HSK40E/HSK50E 高轉速精密筒夾本體 HSK40E/HSK50E 後拉夾頭刀把	Page 100
HBOR63 MICRO BORING BAR  HBOR63 微調搪孔系統組	Page 90	ER COLLET CHUCK ASR SHRINK CHUCK  HSK40E/HSK50E 彈性筒夾本體 HSK40E/HSK50E 燒結式刀把	Page 101
HBOR63 MICRO BORING BAR SYSTEM  HBOR63 微調精搪孔系統 HBOR63-BM140 MICRO BORING BAR Ø150-Ø280-B140精搪刀桿	Page 91	ASG/ASC MILLING CHUCK  HSK50A/HSK63A/HSK100A ASG-強力銑刀夾頭 HSK50A/HSK63A/HSK100A ASC-強力銑刀夾頭	Page 102
HBOR SERIES MICRO BORING BAR  HBOR 極細微調精搪孔刀	Page 92	ASC MILLING CHUCK ASR SHRINK CHUCK  HSK63A/HSK100A 強力銑刀夾頭 HSK63A 燒結式刀把	Page 103
HBOR/ACK EXTENSION ADAPTER  HBOR / ACK 縮徑接柄 / 延長接柄 / 直柄	Page 93	ASK/ADS HIGH SPEED COLLET CHUCK  HSK40A/HSK50A/HSK63A/HSK100A 高轉速精密筒夾本體 HSK50A/HSK63A/HSK100A 後拉夾頭刀把	Page 104
ERO OIL-FEED HOLDER  BT40/BT50-ERO 油路刀把 ER COOLANT COLLET 止水型筒夾	Page 94	ERA HIGH SPEED COLLET CHUCK  HSK50A/HSK63A/HSK100A 高速彈性筒夾本體 ERA NUT & WRENCH 螺帽、板手	Page 105
SLO OIL-FEED HOLDER  BT40/BT50-SLO 油路刀把 CSO 油路刀套 POSITIONING BLOCK 止動塊	Page 95	ER COLLET CHUCK  HSK50A/HSK63A/HSK100A 彈性筒夾本體	Page 106



CONTENTS (5)

HSK SERIES A TYPE & SK SERIES DIN69871A

SLA/EM END MILL HOLDER  HSK50A/HSK63A SLA 側固端銑刀把 HSK50A/HSK63A EM 側固端銑刀把	Page 107	MTA MORSE TAPER HOLDER MTB MORSE TAPER HOLDER  SK30/SK40/SK50-DIN69871A 莫氏斜度刀把A型 SK40/SK50-DIN69871A 莫氏斜度刀把B型 MTB PULL STUD 長拉頭	Page 118
APU DRILL CHUCK HOLDER MTA MORSE TAPER HOLDER  HSK50A/HSK63A/HSK100A 直截式鑽夾頭刀把  HSK50A/HSK63A 莫氏斜度刀把  HSK50A/HSK63A 面銑刀柄	Page 108	TPM TAP HOLDER-TENSION & COMPRESSION TAPER HOLDER  SK40/SK50-DIN69871A 扭力伸縮攻牙本體  TAP COLLET/ TPC316 & TPC830 扭力絲攻筒夾	Page 119
SCREW-IN ENDMILL ARBOR -AMD / NBJ16 MICRO BORING BAR  HSK50A/HSK63A 圓刀銑刀把  NBJ16 微調磨孔系統	Page 109	ART RIGID TAP HOLDER ATP TENSION & COMPRESSION TAP HOLDER  SK30/SK40/SK50-DIN69871A 剛性攻牙本體  SK30/SK40/SK50-DIN69871A 伸縮攻牙本體	Page 120
HBOR50 MICRO BORING BAR HBOR63 MICRO BORING BAR  HBOR50 SET微調磨孔系統組  HBOR63 SET微調磨孔系統組	Page 110	TER TAP HOLDER-TENSION & COMPRESSION TAP HOLDER  SK40/SK50-DIN69871A 伸縮攻牙本體  C20/C25/C32/C40 直柄伸縮攻牙本體	Page 121
TA / TEST BAR TOOL LOCKING DEVICE HSK63A ACCESSORIES  HSK50A/HSK63A/ HSK100A 測試棒  HSK50/HSK63/ HSK100-A+C 鎖刀座  HSK40/ HSK50-A+C+E 鎖刀座  HSK63A型 專用冷卻液管  WRENCH 導管板手	Page 111	FMB FACE MILL HOLDER-METRIC CS COMBINED FACE MILL HOLDER  SK40/SK50-DIN69871A 平面銑刀把  SK40/SK50-DIN69871A 殼型銑刀把	Page 122
ASG HIGH SPEED MILLING CHUCK ASC MILLING CHUCK  SK40/SK50-DIN69871A ASG-高轉速精密強力銑刀夾頭  SK40/SK50-DIN69871A ASC-強力銑刀夾頭	Page 112	ACK/BCK ADJUSTABLE BALANCE CUTTER TOOL HOLDER  SK40/SK50-DIN69871A 磨孔刀柄	Page 123
ER COLLET CHUCK FOR ER COLLET TYPE ERA HIGH SPEED COLLET CHUCK  SK40/SK50-DIN69871A 彈性筒夾本體  SK40/SK50-DIN69871A 高轉速彈性筒夾本體	Page 113	BST ADJUSTABLE BALANCE CUTTER TOOL HOLDER  SK50-DIN69871A 大口徑雙刃粗磨刀柄  大口徑雙刃粗磨刀頭 Ø120~Ø500mm	Page 124
ASK HIGH SPEED COLLET CHUCK  SK30/SK40/SK50-DIN69871A 高轉速精密筒夾本體	Page 114	BSA BORING BAR  SK30/SK40/SK50-DIN69871A 粗磨刀把	Page 125
ADS HIGH SPEED COLLET CHUCK OZ COLLET CHUCK  SK40/SK50-DIN69871A 後拉夾頭刀把  SK40/SK50-DIN69871A 重切削筒夾本體	Page 115	BSB BORING BAR  SK30/SK40/SK50-DIN69871A 粗磨刀把	Page 126
EM END MILL HOLDER-WELDON  SK30/SK40/SK50-DIN69871A 側固端銑刀把	Page 116	BCA MICRO BORING BAR  SK30/SK40-DIN69871A 微調粗磨刀把	Page 127
APU DRILL CHUCK HOLDER B TYPE DRILL CHUCK HOLDER B16/B18  SK40/SK50-DIN69871A 直截式鑽夾頭刀把  SK40/SK50-DIN69871A 鑽夾頭刀把	Page 117	BCA MICRO BORING BAR & SQUARE MICRO BORING BAR BCT LARGE MICRO BORING BAR WITH SLIDE BLOCK  SK50-DIN69871A 微調精磨刀把  SK50-DIN69871A 大孔徑滑板式精磨刀桿	Page 128



CONTENTS (6)

SK SERIES DIN69871A & DIN2080 & CAT SERIES

TSA ADAPTER  SK40/SK50-DIN69871A 轉接器	AMD SCREW-IN ENDMILL ARBOR  SK40/SK50-DIN69871A 圓刀銑刀把	Page 129	
ABH MICRO BORING BAR  SK30/SK40/SK50-DIN69871A 微調精磨刀桿		130	
NBJ16 MICRO BORING BAR  SK40/SK50-DIN69871A 微調磨孔系統	NBH2084 MICRO BORING BAR  SK40/SK50-DIN69871A 微調磨孔系統	131	
HBOR50 MICRO BORING BAR  SK40/SK50-DIN69871A 微調磨孔系統組	HBOR63 MICRO BORING BAR  SK40/SK50-DIN69871A 微調磨孔系統組	132	
ERO OIL-FEED HOLDER  SK40/SK50-DIN69871A ERO油路刀把	SLO OIL-FEED HOLDER  SK40/SK50-DIN69871A SLO油路刀把	133	
TA TEST BAR  SK40/SK50-DIN69871A 測試棒	TOOL LOCKING DEVICE  SK/DIN69871A 立臥兩用鎖刀座	134	
ASC MILLING CHUCK  SK40/SK50-DIN2080 強力銑刀夾頭	ER COLLET CHUCK FOR ER COLLET TYPE  SK40/SK50-DIN2080 彈性筒夾本體	135	
OZ COLLET CHUCK  SK40/SK50-DIN2080 重切削筒夾本體	EM END MILL HOLDER-WELDON  SK30/SK40/SK50-DIN2080 側固端銑刀把	136	
APU DRILL CHUCK HOLDER  SK40/SK50-DIN2080 直載式鑽夾頭刀把	B TYPE DRILL CHUCK HOLDER B12/B16/B18  SK40/SK50-DIN2080 鑽夾頭刀把	137	
MTA MORSE TAPER HOLDER  SK30/SK40/SK50-DIN2080 莫氏斜度刀把A型	MTB MORSE TAPER HOLDER  SK40/SK50-DIN2080 莫氏斜度刀把B型	138	
FMB FACE MILL HOLDER -METRIC  SK40/SK50-DIN2080 平面銑刀把	CS-COMBINED FACE MILL HOLDER  SK40/SK50-DIN2080 殼型銑刀把	139	
ASK HIGH SPEED COLLET CHUCK  CAT40/CAT50 高轉速精密筒夾本體		140	
ASC MILLING CHUCK  CAT40/CAT50 強力銑刀夾頭	 SC 直束筒夾/索咀	 WASC-C 型板手	141
ER COLLET CHUCK FOR COLLET TYPE  CAT40/CAT50 彈性筒夾本體	 C3/4"/C1" / C1-1/4" 直柄彈性筒夾本體	 C5/8"/C3/4"/C1" M TYPE 直柄彈性筒夾本體 (M型)	142 143
ERA HIGH SPEED COLLET CHUCK  CAT40/CAT50 高速彈性筒夾本體	 ERA NUT & WRENCH 螺帽、板手		144
OZ / TG COLLET CHUCK & OZ/TG COLLET  CAT40/CAT50 重切削筒夾本體	 TG100 筒夾本體	 TG100 精密筒夾	145
EM END MILL HOLDER  CAT40/CAT50 側固端銑刀把	 CAT40/CAT50 側固端銑刀把	 CAT40/CAT50 側固端銑刀把	146 147
APU DRILL CHUCK HOLDER & JTA DRILL CHUCK HOLDER  CAT40/CAT50 直載式鑽夾頭刀把	JTA DRILL CHUCK HOLDER  CAT40/CAT50 鉗夾頭刀把		148
MTA MORSE TAPER HOLDER  CAT40/CAT50 莫氏斜度刀把	TPM TAP HOLDER-TENSION & COMPRESSION TAPER HOLDER  CAT40/CAT50 扭力伸縮攻牙本體		149
TER TAP HOLDER-RIGID TAPER HOLDER  CAT40/CAT50 剛性攻牙本體	 C3/4"/C1"/C1-1/4"/C1-1/2" 直柄剛性攻牙本體		150
SM SHELL MILL HOLDER  CAT40/CAT50 平面銑刀把			151
ACK/BCK ADJUSTABLE BALANCE CUTTER TOOL HOLDER  CAT40/CAT50 磨孔刀柄			152



CONTENTS (7) CAT SERIES & ACCESSORIES

NBJ16 MICRO BORING BAR  NBJ16 微調磨孔系統 NBH2084 MICRO BORING BAR  NBH2084 微調磨孔系統 Page 153	MODULAR CONCENTRICITY TOOL LOCKING DEVICE SPINDLE TAPER WIPERS  A.T.C.-三點組合模具  BT/SK/CAT 立臥兩用鎖刀座 CA主軸清潔棒 Page 166
HBOR50 MICRO BORING BAR  HBOR50 微調磨孔系統組 HBOR63 MICRO BORING BAR  HBOR63 微調磨孔系統組 Page 154	HYDRAULIC MACHINE VISE  HP 油壓內藏式虎鉗 PRECISION ANGLE LOCK MACHINE VISE  SAV 角固式虎鉗 Page 167
ERO OIL-FEED HOLDER  CAT40/CAT50 ERO油路刀把 ER COOLANT COLLET  ER COOLANT COLLET 止水型筒夾 Page 155	K-TYPE MACHINE VISE  SKV K型虎鉗 CNC MULTI-POWER FIXED ANGLE VISE  HPAC CNC多功能角固式虎鉗 Page 167 ~ 168
TA TEST BAR  CAT40/CAT50 測試棒 TOOL LOCKING DEVICE  CAT 立臥兩用鎖刀座 Page 156	TOOL PRESETTER  AW-HB300-刀具預調儀  AW-H300-刀具預調儀  AW-XZ400-刀具預調儀 Page 169
FACE MILL CUTTER  45°般型銑刀盤  SE545 面銑刀盤  TPR 90° 平面銑刀盤 Page 157	TOOL PRESETTER  Sleeve/轉換套筒  Cabinet-儲存櫃 Page 170
RAPID DRILLS THROW-AWAY INSERTS  捨棄式快速鑽頭-Dx2  捨棄式快速鑽頭-Dx3  捨棄式快速鑽頭-Dx4 Page 158 ~ 160	PULL STUD  BT-拉桿/拉頭  BT-拉桿/拉頭-中心出水 Page 171
MECHANICAL & CERAMIC & ROTARY EDGE FINDER  機械式尋邊器  陶瓷尋邊器  迴轉式尋邊器ME-P1+P2 Page 161	PULL STUD  BT40/BT50-MAZAK 拉桿/拉頭  DIN69872A/B 拉桿/拉頭  ISO7388A/B 拉桿/拉頭 Page 172
PM HIGH SENSITIVE ELECTRONIC EDGE SENSOR  PM20/PM32 光電式尋邊器  PM3/4", PM1-1/4" 光電式尋邊器  3D-SENSORS-HAIMER 3D感測尋邊器 Page 162	PULL STUD -CAT40/CAT50  CAT40/CAT50 拉桿/拉頭  OTT 拉桿 ARTISTIC DRILL RE-SHARPENING MACHINE  精巧钻头研磨機 Page 173
Z-ZERO SETTER ZIP-50A/ASM50/ZAP50 & SM100/ASM100  Z軸測定器  Setting High:50mm  ASM-100  SM-100 Setting High:100mm Page 163	TECHNICAL INFORMATION  BT SHANK  NT SHANK    Page 174
TOOL STAND & TOOL SHEATH  刀具架-單面/雙面  刀具盒  刀具車 Page 164	TECHNICAL INFORMATION  HSKA SHANK  CAT SHANK  SK-DIN2080 SHANK  SK-DIN69871A SHANK Page 175 ~ 176
MOBILE TOOL TROLLEY  TC-特殊活動工具車  CK-CLAMPING KIT-萬能夾具組 52-PCS STEEL CLAMPING KIT Page 165	TECHNICAL INFORMATION    MORSE TAPER DIMENSIONS: Page 177

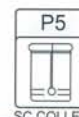
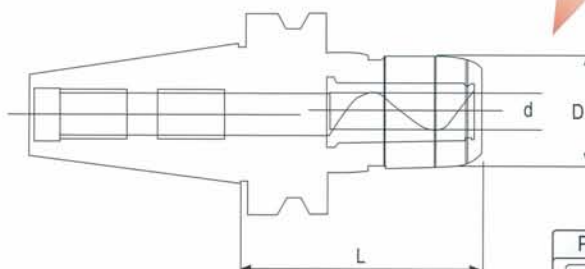


ASG HIGH SPEED MILLING CHUCK

PAT.

HIGH SPEED MILLING CHUCK-ASG- 高轉速精密強力銑刀夾頭 BT30/BT40/BT50

NEW
SUPER POWERGRIP
HIGH RIGIDITY



Model No.	Clamping Range	d	D	L	Collet Type
BT30-ASG12-65	3~12	12	35	65	SC12
BT30-ASG16-70	3~16	16	46	70	SC16
BT30-ASG20-75	4~20	20	54	75	SC20
BT40-ASG12-70	3~12	12	35	70	SC12
BT40-ASG12-95	3~12	12	35	95	SC12
BT40-ASG12-120	3~12	12	35	120	SC12
BT40-ASG16-70	3~16	16	46	70	SC16
BT40-ASG16-105	3~16	16	46	105	SC16
BT40-ASG16-135	3~16	16	46	135	SC16
BT40-ASG20-75	4~20	20	54	75	SC20
BT40-ASG20-105	4~20	20	54	105	SC20
BT40-ASG20-135	4~20	20	54	135	SC20
BT40-ASG32-105	6~32	32	68	105	SC32
BT40-ASG32-135	6~32	32	68	135	SC32
BT50-ASG12-90	3~12	12	35	90	SC12
BT50-ASG12-110	3~12	12	35	110	SC12
BT50-ASG12-135	3~12	12	35	135	SC12
BT50-ASG16-90	3~16	16	46	90	SC16
BT50-ASG16-110	3~16	16	46	110	SC16
BT50-ASG16-135	3~16	16	46	135	SC16
BT50-ASG16-150	3~16	16	46	150	SC16
BT50-ASG20-90	4~20	20	54	90	SC20
BT50-ASG20-110	4~20	20	54	110	SC20
BT50-ASG20-135	4~20	20	54	135	SC20
BT50-ASG20-150	4~20	20	54	150	SC20
BT50-ASG32-110	6~32	32	68	110	SC32
BT50-ASG32-150	6~32	32	68	150	SC32

- ASG tooling systems are suitable for high-speed and high precision cutting.
- WASG12,WASG16,WASG20,WASG32 bearing wrenches are sold separately.
- Dust-proof design: To extend tool holder lifetime.
- Max speed: 30,000 r.p.m G2.5

- ASG 刀具系列用於高轉速、高精密切削加工。切削效果佳。
- ASG12/ASG16/ASG20/ASG32軸承板手為另購品
- 特殊防塵設計,提升刀桿壽命
- Max speed: 30,000r.p.m G2.5



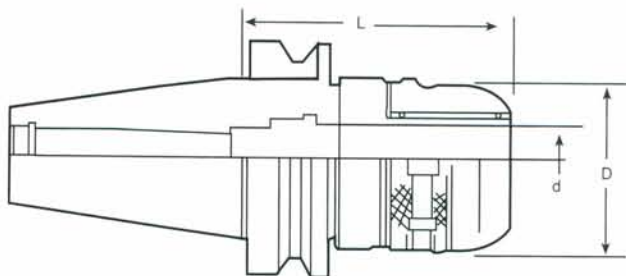


ASC HIGH SPEED MILLING CHUCK

PAT.

MAS403 BT / NT SERIES

HIGH SPEED MILLING CHUCK-ASC- 高轉速精密強力銑刀夾頭 BT30/BT40/BT50



Model No.	Clamping Range	d	D	L	Collet Type
BT30-ASC16-70	3~16	16	46	70	SC16
BT30-ASC20-75	4~20	20	53	75	SC20
BT40-ASC16-70	3~16	16	46	70	SC16
BT40-ASC16-105	3~16	16	46	105	SC16
BT40-ASC16-135	3~16	16	46	135	SC16
BT40-ASC20-75	4~20	20	53	70	SC20
BT40-ASC20-105	4~20	20	53	105	SC20
BT40-ASC20-135	4~20	20	53	135	SC20
BT50-ASC16-90	3~16	16	46	90	SC16
BT50-ASC16-110	3~16	16	46	110	SC16
BT50-ASC16-135	3~16	16	46	135	SC16
BT50-ASC16-150	3~16	16	46	150	SC16
BT50-ASC20-90	4~20	20	53	90	SC20
BT50-ASC20-110	4~20	20	53	110	SC20
BT50-ASC20-135	4~20	20	53	135	SC20
BT50-ASC20-150	4~20	20	53	150	SC20

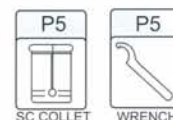
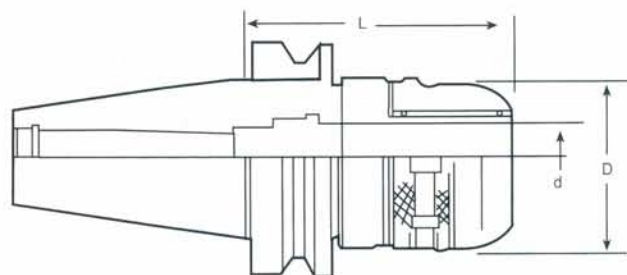
- ASC tooling systems are suitable for high-speed and high precision cutting.
- Each ASC milling chuck attached 1 PC C-type wrench.
- Dust-proof design: To extend tool holder lifetime.
- Max speed: 30,000 r.p.m G2.5

- ASC 刀具系列用於高轉速、高精密切削加工。切削效果佳。
- ASC16/ASC20/ASC25/ASC32刀桿均附C型板手
- 特殊防塵設計,提昇刀桿壽命
- Max speed: 30,000r.p.m G2.5



ASC MILLING CHUCK

MILLING CHUCK-ASC- 強力銑刀夾頭 **BT30/BT40/BT50**



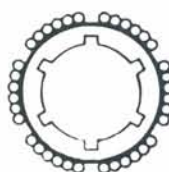
Model No.	Capacity Range	d	D	L	Collet Type
BT30-ASC25-85	6-25	25	58	85	SC25
BT40-ASC25-90	6-25	25	58	90	SC25
BT40-ASC25-130	6-25	25	58	130	SC25
BT40-ASC32-95	6-32	32	68	95	SC32
BT40-ASC32-130	6-32	32	68	130	SC32
BT50-ASC25-95	6-25	25	58	95	SC25
BT50-ASC25-150	6-25	25	58	150	SC25
BT50-ASC32-105	6-32	32	76	105	SC32
BT50-ASC32-150	6-32	32	76	150	SC32
BT50-ASC32-200	6-32	32	76	200	SC32
BT50-ASC32-250	6-32	32	76	250	SC32
BT50-ASC42-110	6-42	42	84	110	SC42
BT50-ASC42-160	6-42	42	84	160	SC42

- Each ASC MILLING CHUCK attached 1PC ASC C-type wrench.
- 每支ASC刀桿均附1支板手

FEATURES:

ADDED CHUCKING FORCE

4 LAYERS 40mm BEARING RETAINER & 7mm NEEDLE ROLLER BEARINGS FOR ASC25 200pcs / ASC32 220pcs / ASC42 280pcs IN THE CHUCK BODY INCREASE ITS FORCE AT THE BORE



ANTI-SLIP FEATURE

6 TAPERED GROOVES PROVIDES BETTER SHRINKAGE OF THE BORE & BETTER FRICTION RESISTANCE AGAINST TOOL PULL-OUT

RUNOUT ACCURACY

THE HIGHEST ACCURACY CAN BE REACHED 0.005mm (TOOL LENGTH 100mm)

EXTREME RIGIDITY

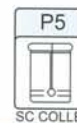
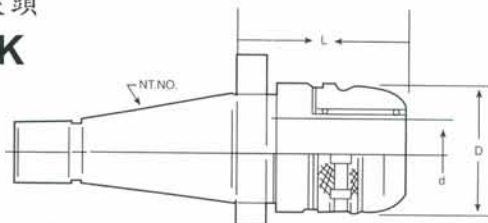
THE DESIGN ASSURES A POWERFUL CLAMPING FORCE CAPABILITY, MINIMIZING VIBRATION & DISTORTION.

SUB-ZERO TREATMENT

SUB-ZERO TREATMENT REMOVES RESIDUAL AUSTENITE.



MILLING CHUCK-ASC- 強力銑刀夾頭 NT30/NT40/NT50 TAPER SHANK

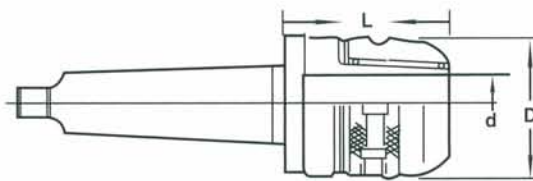


Model No.	Capacity Range	d	D	L	Collet Type	Draw Bolt
NT30-ASC25-80	6~25	25	58	80	SC25	1/2"-12 M12x1.75P
NT30-ASC32-90	6~32	32	68	90	SC32	
NT40-ASC25-80	6~25	25	58	80	SC25	5/8"-11 M16x2.0P
NT40-ASC25-130	6~25	25	58	130	SC25	
NT40-ASC32-85	6~32	32	68	85	SC32	
NT40-ASC32-130	6~32	32	68	130	SC32	1"-8 M24x3.0P
NT50-ASC25-85	6~25	25	58	85	SC25	
NT50-ASC25-150	6~25	25	58	150	SC25	
NT50-ASC32-90	6~32	32	76	90	SC32	
NT50-ASC32-150	6~32	32	76	150	SC32	
NT50-ASC42-95	6~42	42	84	95	SC42	
NT50-ASC42-150	6~42	42	84	150	SC42	

- Each ASC MILLING CHUCK attached 1PC ASC C-type wrench. 每支ASC刀桿均附1支扳手。

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

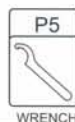
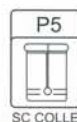
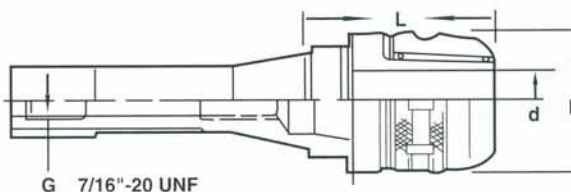
MT3/MT4/MT5/MT6 MORSE TAPER SHANK-莫式錐度強力銑刀夾頭



Model No.	Capacity Range	d	D	L	Collet Type
MT3-ASC25-70	6-25	25	58	70	SC25
MT4-ASC25-70	6-25	25	58	70	SC25
MT4-ASC32-80	6-32	32	76	80	SC32
MT5-ASC25-75	6-25	25	58	75	SC25
MT5-ASC32-80	6-32	32	76	80	SC32
MT5-ASC42-90	6-42	42	84	90	SC42
MT6-ASC25-75	6-25	25	58	75	SC25
MT6-ASC32-80	6-32	32	76	80	SC32
MT6-ASC42-90	6-42	42	84	90	SC42

- Each ASC MILLING CHUCK attached 1PC ASC C-type wrench. 每支ASC刀桿均附1支扳手。

R8 TAPER 強力銑刀夾頭



Model No.	Capacity Range	d	D	L	Collet Type
R8-ASC25-70	6-25	25	58	70	SC25
R8-ASC32-75	6-32	32	68	75	SC32

- Each ASC MILLING CHUCK attached 1PC ASC-C TYPE wrench.

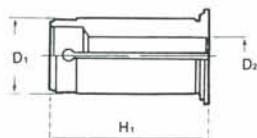
-每支ASC刀桿均附1支扳手。



STRAIGHT COLLETS / COLLET SET / WRENCH

STRAIGHT COLLETS- 直束筒夾/索咀

SC12 / SC16 / SC20 / SC25 / SC32 / SC42



(Unit: mm)

Model No.	D1	D2	H1
SC12	12	3,4,5,6,7,8,9,10	40
SC16	16	3,4,5,6,7,8,9,10,11,12	42
SC20	20	6,8,10,12,14,16	52
SC25	25	6,8,10,12,16,20	63
SC32-Metric	32	6,8,10,12,16,20,25	71
SC32-Inch	32	1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1"	71
SC42	42	6,8,10,12,16,20,25,32	71

SC25 / SC32 / SC42 STRAIGHT COLLET SET- 直束筒夾組



Model No.	SPECIFICATION
SC12 6PCS	3, 4, 5, 6, 8, 10
SC16 6PCS	3, 4, 6, 8, 10, 12
SC20 6PCS	6, 8, 10, 12, 14, 16
SC25 6PCS	6, 8, 10, 12, 16, 20
SC32 7PCS-Metric	6, 8, 10, 12, 16, 20, 25
SC32 7PCS-Inch	1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1"
SC42 8PCS	6, 8, 10, 12, 16, 20, 25, 32

WRENCH FOR ASG/ASC MILLING CHUCK-板手

BEARING TYPE WRENCH-WASG12/WASG16/WASG20 軸承板手



Model No.	D1	SUIT FOR
WASG12	35	ASG12
WASG16	46	ASG16
WASG20	54	ASG20/ASK25
WASG32	68	ASG32

C-TYPE WRENCH WASC16/WASC20/WASC25/WASC32/WASC42-C 型板手



Model No.	D1	ASC TYPE CHUCK
WASC16	46	ASC16
WASC20	53	ASC20
WASC25	55	ASC25
WASC32	68	ASC32(BT30 / BT40)
WASC42	76	ASC42(BT50-ASC32/ASC42)

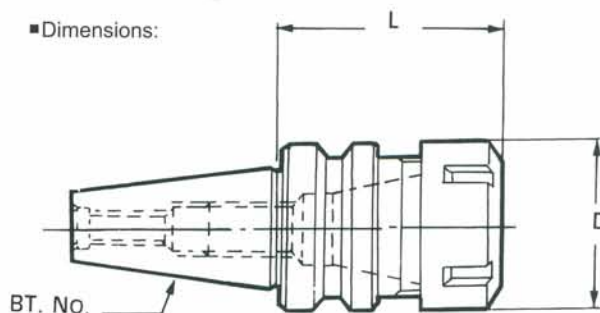


ER COLLET CHUCK FOR ER COLLET TYPE

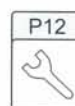
ER COLLET CHUCK- 彈性筒夾本體 BT30 / BT40 / BT50 TAPER SHANK



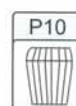
■Dimensions:



Nut



Wrench



ER COLLET

(Unit: mm)

Model No.	Clamping Range	L	D	Collet Type	Wrench
BT30-ER11-60	0.5~7	60	19	ER11	--
BT30-ER16-60	0.5~10	60	28	ER16	WER16
BT30-ER20-60	0.5~13	60	34	ER20	WER20
BT30-ER25-60	0.5~16	60	42	ER25	WER25
BT30-ER32-60	1~20	60	50	ER32	WER32
BT40-ER11-70	0.5~7	70	19	ER11	--
BT40-ER11-100	0.5~7	100	19	ER11	--
BT40-ER16-70	0.5~10	70	28	ER16	WER16
BT40-ER16-100	0.5~10	100	28	ER16	WER16
BT40-ER20-80	0.5~13	80	34	ER20	WER20
BT40-ER20-100	0.5~13	100	34	ER20	WER20
BT40-ER20-150	0.5~13	150	34	ER20	WER20
BT40-ER25-80	0.5~16	80	42	ER25	WER25
BT40-ER25-100	0.5~16	100	42	ER25	WER25
BT40-ER32-60	1~20	60	50	ER32	WER32
BT40-ER32-100	1~20	100	50	ER32	WER32
BT40-ER40-80	2~26	80	63	ER40	WER40
BT40-ER40-100	2~26	100	63	ER40	WER40
BT50-ER16-100	0.5~10	100	28	ER16	WER16
BT50-ER16-150	0.5~10	150	28	ER16	WER16
BT50-ER16-200	0.5~10	200	28	ER16	WER16
BT50-ER20-100	0.5~13	100	34	ER20	WER20
BT50-ER20-150	0.5~13	150	34	ER20	WER20
BT50-ER20-200	0.5~13	200	34	ER20	WER20
BT50-ER20-250	0.5~13	250	34	ER20	WER20
BT50-ER25-100	0.5~16	100	42	ER25	WER25
BT50-ER25-150	0.5~16	150	42	ER25	WER25
BT50-ER25-200	0.5~16	200	42	ER25	WER25
BT50-ER25-250	0.5~16	250	42	ER25	WER25
BT50-ER32-100	1~20	100	50	ER32	WER32
BT50-ER32-150	1~20	150	50	ER32	WER32
BT50-ER32-200	1~20	200	50	ER32	WER32
BT50-ER32-250	1~20	250	50	ER32	WER32
BT50-ER40-80	2~26	80	63	ER40	WER40
BT50-ER40-100	2~26	100	63	ER40	WER40
BT50-ER40-150	2~26	150	63	ER40	WER40
BT50-ER40-200	2~26	200	63	ER40	WER40

-ER COLLET CHUCK with the flexibility and can clamp drill, reamers, end mills and taps.

-ER11 /ER16 /ER20 holder can make M type as your choice.

-ER16 /ER20 /ER25 /ER32 /ER40 are also suitable for ER bearing nut and wrench.

-Wrench not included.

-ER11/ ER16 /ER20 刀桿有M型可供選擇。

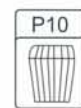
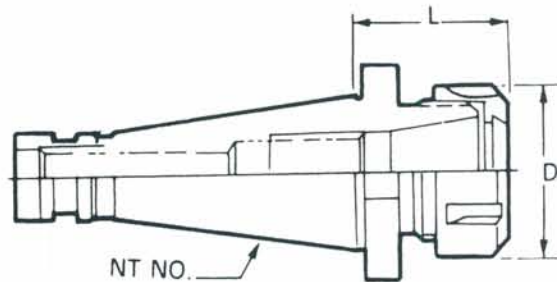
-ER16 /ER20 /ER25 /ER32 /ER40 刀桿可另外選配鋼珠螺帽及板手。

-ER板手為另購品。



ER COLLET CHUCK FOR ER COLLET TYPE

ER COLLET CHUCK- 彈性筒夾本體 NT30 / NT40 / NT50 TAPER SHANK



Nut

Wrench

ER COLLET

(Unit: mm)

Model NO.	L	D	Collet Type	Draw Bar
NT30-ER16-76	76	28	ER16	M12 x 1.75P
NT30-ER32-55	55	50	ER32	1/2"- 12
NT30-ER40-85	85	63	ER40	1/2"- 13UN
NT40-ER16-76	76	28	ER16	M16 x 2.0 P 5/8"- 11
NT40-ER16-100	100	28	ER16	
NT40-ER20-76	76	34	ER20	
NT40-ER20-100	100	34	ER20	
NT40-ER32-50	50	50	ER32	
NT40-ER40-55	55	63	ER40	
NT50-ER16-100	100	28	ER16	M24x3.0P 1"-8
NT50-ER16-150	150	28	ER16	
NT50-ER20-100	100	34	ER20	
NT50-ER20-150	150	34	ER20	
NT50-ER32-58	58	50	ER32	
NT50-ER40-58	58	63	ER40	

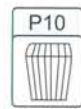
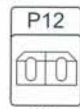
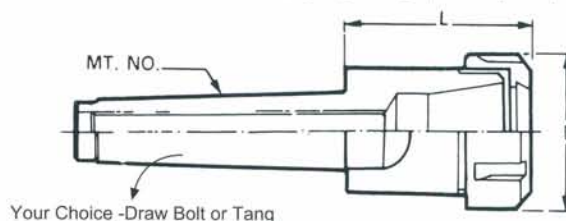
- NT SHANK with ER COLLET CHUCK. When ordering, please specify the draw bolt for inch size or metric size.

- Wrench not included.

- 請於訂購時，確認刀桿為英制或公制。

- ER板手為另購品。

MTB2/MTB3/MTB4/MTB5-MORSE TAPER SHANK- 莫式錐度彈性筒夾本體



Nut

Wrench

ER COLLET

(Unit: mm)

Model NO.	L	D	Collet Type	Draw Bar
MTB2-ER16-40	40	28	ER16	M10 x 1.5 P 3/8"- 16
MTB2-ER20-45	45	34	ER20	
MTB2-ER25-47	47	42	ER25	
MTB3-ER16-40	40	28	ER16	M12 x 1.75P
MTB3-ER32-70	70	50	ER32	M10 x 1.5 P
MTB3-ER40-80	80	63	ER40	1/2"- 12 / 3/8"-16
MTB4-ER32-60	60	50	ER32	M16 x 2.0 P
MTB4-ER40-82	82	63	ER40	5/8"- 11
MTB5-ER40-82	82	63	ER40	M24x3.0 P / 1"- 8

- MORSE TAPER SHANK with ER COLLET CHUCK.

- For your choice-Morse taper shank is DRAW BOLT (MTB) or TANG (MTA).

- Wrench not included.

- 莫式錐度刀桿有MTA.MTB可選擇。

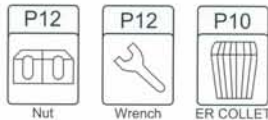
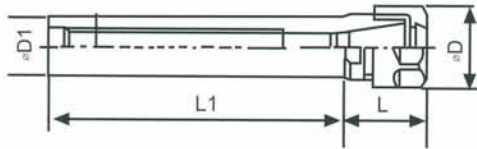
- ER板手為另購品。



ER COLLET CHUCK FOR ER COLLET TYPE

STRAIGHT SHANK- 直柄彈性筒夾本體 C20 / C25 / C32 / C40

(Unit: mm)



ModelNo.	D1	L1	L	D	Collet Type
C20-ER16-50	20	50	30	28	ER16
C20-ER16-100	20	100	30	28	
C20-ER16-150	20	150	30	28	
C20-ER20-50	20	50	36	34	ER20
C20-ER20-100	20	100	36	34	
C20-ER25-50	20	50	46	42	ER25
C20-ER25-100	20	100	46	42	
C20-ER25-150	20	150	46	42	
C25-ER16-100	25	100	30	28	ER16
C25-ER16-150	25	150	30	28	
C25-ER20-150	25	150	36	34	ER20
C25-ER25-100	25	100	46	42	
C25-ER25-150	25	150	46	42	ER25
C25-ER32-80	25	80	54	50	
C25-ER40-100	25	100	55	63	ER40
C32-ER25-60	32	60	46	42	
C32-ER32-100	32	100	54	50	ER32
C32-ER40-100	32	100	55	63	
C40-ER32-100	40	100	54	50	ER32
C40-ER40-100	40	100	55	63	

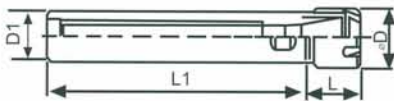
- Straight shank with ER COLLET EXTENSIONS. It could used to extend tooling reach for extended length. Wrench not included.
- ER板手為另購品。

STRAIGHT SHANK-M TYPE 直柄彈性筒夾本體(M型) C20 / C25 / C32 / C40

(Unit: mm)



■Dimensions:

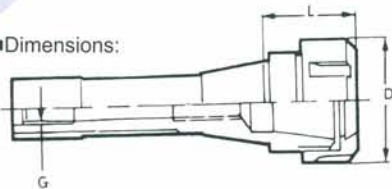


Model No.	D1	L1	L	D	Collet Type
C16-ER11-50(M)	16	50	12	16	ER11
C16-ER11-100(M)	16	100	12	16	
C20-ER16-50(M)	20	50	18	22	ER16
C20-ER16-100(M)	20	100	18	22	
C20-ER16-150(M)	20	150	18	28	
C20-ER20-50(M)	20	50	19	28	ER20
C20-ER20-100(M)	20	100	19	28	
C20-ER20-150(M)	20	150	19	28	
C25-ER20-50(M)	25	50	19	28	ER20
C25-ER20-100(M)	25	100	19	28	
C25-ER20-150(M)	25	150	19	28	

- Straight shank with ER COLLET EXTENSIONS. It could used to extend tooling reach for extended length. Wrench not included.
- ER板手為另購品。

R8 TAPER SHANK-R8 彈性筒夾本體

■Dimensions:

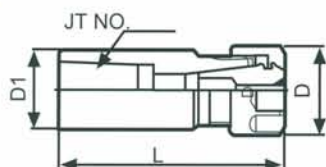


(Unit: mm)

Model No.	Collet Type	L	D	Draw Bar-G
R8-ER16	ER16	38	28	7/16" X 20UNF
R8-ER25	ER25	33	42	
R8-ER32	ER32	40	50	
R8-ER40	ER40	70	63	

- R8 shank with ER COLLET CHUCK. Wrench not included.
- ER板手為另購品。

JACOBS FEMLE TAPER SHANK-JT2/JT6 內孔鑽頭彈性筒夾本體



(Unit: mm)

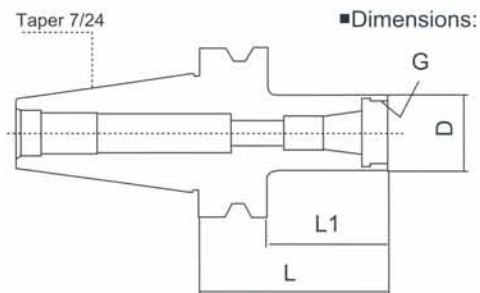
Type of holder	JT	L	D1	D
JT2-ER16-70	JT2	70	25	28
JT6-ER16-70	JT6	70	25	28
JT6-ER20-70	JT6	70	34	34

- Wrench not included.
- ER板手為另購品。



ERA HIGH SPEED COLLET CHUCK

ERA COLLET CHUCK- 高速彈性筒夾本體 BT30 / BT40 / BT50 TAPER SHANK



(Unit: mm)

Model No.	D	L1	L	G
BT30-ERA11-55	22	35	55	M18x1P
BT30-ERA16-65	28	45	65	M24x1P
BT30-ERA20-65	32	45	65	M28x1.5P
BT30-ERA25-60	38	40	60	M32x1.5P
BT40-ERA11-70	22	45	70	M18x1P
BT40-ERA11-100	22	75	100	M18x1P
BT40-ERA16-70	28	45	70	M24x1P
BT40-ERA16-100	28	75	100	M24x1P
BT40-ERA20-80	32	55	80	M28x1.5P
BT40-ERA20-100	32	75	100	M28x1.5P
BT40-ERA25-80	38	55	80	M32x1.5P
BT40-ERA25-100	38	75	100	M32x1.5P
BT40-ERA32-80	46	45	80	M40x1.5P
BT40-ERA32-100	46	75	100	M40x1.5P
BT50-ERA11-80	22	45	80	M18x1P
BT50-ERA11-110	22	75	110	M18x1P
BT50-ERA16-80	28	55	80	M24x1P
BT50-ERA16-110	28	75	110	M24x1P
BT50-ERA20-90	32	55	90	M28x1.5P
BT50-ERA20-110	32	75	110	M28x1.5P
BT50-ERA25-90	38	55	90	M32x1.5P
BT50-ERA25-110	38	75	110	M32x1.5P
BT50-ERA32-90	46	55	90	M40x1.5P
BT50-ERA32-110	46	75	110	M40x1.5P

Features:

- The new holder is available for ER COLLETS and easy to get.
- The clamping nuts for ERA are special designed to be fitted internally into the holder. The special design could provide better cutting conditions and reducing cutting vibrations.
- Max speed: 30,000 r.p.m G2.5
- Wrench not included.
- 特殊內藏式螺帽設計：可降低及減少切削時所產生的阻力與振動，並提昇加工品質及穩定性。
- 板手為另購品。

ERA NUT & WRENCH- 螺帽、板手



(Unit: mm)

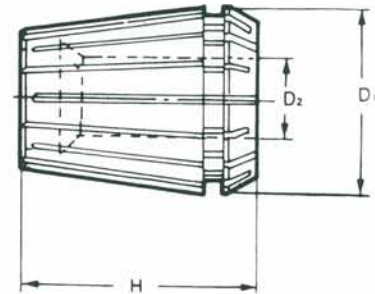
Model NO.	B	C	Collet Type	Flg
ERA11-NUT	6	M 18x1P	ER11	1
ERA16-NUT	8	M 24x1P	ER16	1
ERA20-NUT	11	M 28x1.5P	ER20	1
ERA25-NUT	12.5	M 32x1.5P	ER25	1
ERA32-NUT	14	M 40x1.5P	ER32	1
WEA11	Wrench for ERA11 TOOL HOLDER - ERA11板手			2
WEA16	Wrench for ERA16 TOOL HOLDER - ERA16板手			2
WEA20	Wrench for ERA20 TOOL HOLDER - ERA20板手			2
WEA25	Wrench for ERA25 TOOL HOLDER - ERA25板手			2
WEA32	Wrench for ERA32 TOOL HOLDER - ERA32板手			2



ER COLLETS-ER 彈性筒夾/索咀 ER11/ER16/ER20/ER25/ER32/ER40

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

■Dimensions:



Metric Size:

(Unit: mm)

Model No.	D1	H	D2
ER11	11.5	18	1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7
ER16	17	27	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
ER20	21	31	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
ER25	26	35	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16
ER32	33	40	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20
ER40	41	46	4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26

Inch Size:

Model No.	D1	H	D2
ER11	11.5	18	1/32, 1/16, 3/32, 1/8, 3/16, 7/32, 1/4
ER16	17	27	1/32, 1/16, 3/32, 1/8, 3/16, 7/32, 1/4, 5/16, 11/32, 3/8
ER20	21	31	1/16, 3/32, 1/8, 3/16, 7/32, 1/4, 5/16, 11/32, 3/8, 13/32, 7/16, 1/2
ER25	26	35	1/16, 3/32, 1/8, 3/16, 7/32, 1/4, 5/16, 11/32, 3/8, 13/32, 7/16, 1/2, 17/32, 9/16, 5/8
ER32	33	40	3/32, 1/8, 3/16, 7/32, 1/4, 5/16, 11/32, 3/8, 13/32, 7/16, 1/2, 17/32, 9/16, 5/8, 21/32, 11/16, 3/4, 25/32
ER40	41	46	1/8, 3/16, 7/32, 1/4, 5/16, 11/32, 3/8, 13/32, 7/16, 1/2, 17/32, 9/16, 5/8, 21/32, 11/16, 3/4, 25/32, 13/16, 27/32, 7/8, 15/16, 31/32, 1

(Unit: mm)

ER11		ER16		ER20		ER25		ER32		ER40	
NO.	RANGE mm	NO.	RANGE mm	NO.	RANGE mm	NO.	RANGE mm	NO.	RANGE mm	NO.	RANGE mm
ER11-1	1.0-0.5	ER16-1	1.0-0.5	ER20-2	2.0-1.0	ER25-2	2.0-1.0	ER32-3	3.0-2.0	ER40-4	4.0-3.0
ER11-1.5	1.5-1.0	ER16-2	2.0-1.0	ER20-3	3.0-2.0	ER25-3	3.0-2.0	ER32-4	4.0-3.0	ER40-5	5.0-4.0
ER11-2	2.0-1.5	ER16-3	3.0-2.0	ER20-4	4.0-3.0	ER25-4	4.0-3.0	ER32-5	5.0-4.0	ER40-6	6.0-5.0
ER11-2.5	2.5-2.0	ER16-4	4.0-3.0	ER20-5	5.0-4.0	ER25-5	5.0-4.0	ER32-6	6.0-5.0	ER40-7	7.0-6.0
ER11-3	3.0-2.5	ER16-5	5.0-4.0	ER20-6	6.0-5.0	ER25-6	6.0-5.0	ER32-7	7.0-6.0	ER40-8	8.0-7.0
ER11-3.5	3.5-3.0	ER16-6	6.0-5.0	ER20-7	7.0-6.0	ER25-7	7.0-6.0	ER32-8	8.0-7.0	ER40-9	9.0-8.0
ER11-4	4.0-3.5	ER16-7	7.0-6.0	ER20-8	8.0-7.0	ER25-8	8.0-7.0	ER32-9	9.0-8.0	ER40-10	10-9.0
ER11-4.5	4.5-4.0	ER16-8	8.0-7.0	ER20-9	9.0-8.0	ER25-9	9.0-8.0	ER32-10	10-9.0	ER40-11	11-10
ER11-5	5.0-4.5	ER16-9	9.0-8.0	ER20-10	10-9.0	ER25-10	10-9.0	ER32-11	11-10	ER40-12	12-11
ER11-5.5	5.5-5.0	ER16-10	10-9.0	ER20-11	11-10	ER25-11	11-10	ER32-12	12-11	ER40-13	13-12
ER11-6	6.0-5.5			ER20-12	12-11	ER25-12	12-11	ER32-13	13-12	ER40-14	14-13
ER11-6.5	6.5-6.0			ER20-13	13-12	ER25-13	13-12	ER32-14	14-13	ER40-15	15-14
ER11-7	7.0-6.5					ER25-14	14-13	ER32-15	15-14	ER40-16	16-15
						ER25-15	15-14	ER32-16	16-15	ER40-17	17-16
						ER25-16	16-15	ER32-17	17-16	ER40-18	18-17
								ER32-18	18-17	ER40-19	19-18
								ER32-19	19-18	ER40-20	20-19
								ER32-20	20-19	ER40-21	21-20
										ER40-22	22-21
										ER40-23	23-22
										ER40-24	24-23
										ER40-25	25-24
										ER40-26	26-25



ER COLLET SETS

ER COLLET SETS-ER 彈性筒夾組 ER11/ER16/ER20/ER25/ER32/ER



ER11

Model No.	SPEC	PCS/SET
ER11-7 PCS	1,2,3,4,5,6,7	7PCS/SET
ER11-13 PCS	1,1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7	13PCS/SET



ER16

Model No.	SPEC	PCS/SET
ER16-8 PCS	3,4,5,6,7,8,9,10	8PCS/SET
ER16-10 PCS	1,2,3,4,5,6,7,8,9,10	10PCS/SET



ER20

Model No.	SPEC	PCS/SET
ER20-10 PCS	4,5,6,7,8,9,10,11,12,13	10PCS/SET
ER20-12 PCS	2,3,4,5,6,7,8,9,10,11,12,13	12PCS/SET



ER25

Model No.	SPEC	PCS/SET
ER25-7 PCS	4,6,8,10,12,14,16	7PCS/SET
ER25-15 PCS	2,3,4,5,6,7,8,9,10,11,12,13,14,15,16	15PCS/SET

ER32

Model No.	SPEC	PCS/SET
ER32-6 PCS	6,8,10,12,16,20	6PCS/SET
ER32-11 PCS	4,5,6,8,10,12,13,15,16,18,20	11PCS/SET
ER32-18 PCS	3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	18PCS/SET

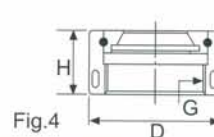
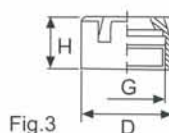
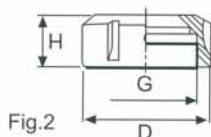
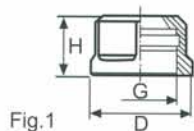
ER40

Model No.	SPEC	PCS/SET
ER40-7 PCS	6,8,10,12,16,20,25	7PCS/SET
ER40-15 PCS	4,5,6,8,10,12,13,15,16,18,20,21,22,25,26	15PCS/SET
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	23PCS/SET



ER CLAMPING NUTS/BEARING NUT & ER WRENCH

ER CLAMPING NUT & BEARING NUT -ER 螺帽&鋼珠螺帽



	Model No.	Fig.	D	H	G	Collet Type
STANDARD NUT 普通螺帽	CN11	1	19	13	M14 x P 0.75	ER11
	CN16	1	28	17.5	M22 x P 1.5	ER16
	CN20	1	34	19	M25 x P 1.5	ER20
	CN25	2	42	20	M32 x P 1.5	ER25
	CN32	2	50	22.5	M40 x P 1.5	ER32
	CN40	2	63	29	M50 x P 1.5	ER40
M-TYPE NUT M型螺帽	Model No.	Fig.	D	H	G	Collet Type
	CNM11(M type)	3	16	12	M13 x P 0.75	ER11
	CNM16(M type)	3	22	18	M19 x P 1.0	ER16
	CNM20(M type)	3	28	19	M24 x P 1.0	ER20
BEARING NUT 鋼珠螺帽	Model No.	Fig.	D	H	G	Collet Type
	CN16-B	4	32	19	M22 x P1.5	ER16
	CN20-B	4	36	21	M25 x P1.5	ER20
	CN25-B	4	43	22	M32 x P1.5	ER25
	CN32-B	4	51	24	M40 x P1.5	ER32
	CN40-B	4	63	29	M50 x P1.5	ER40

ER WRENCH & ER BEARING C TYPE WRENCH -ER 板手

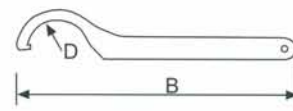
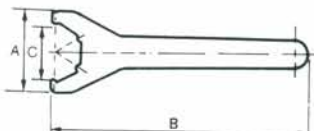
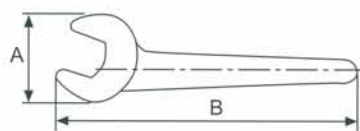
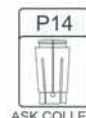
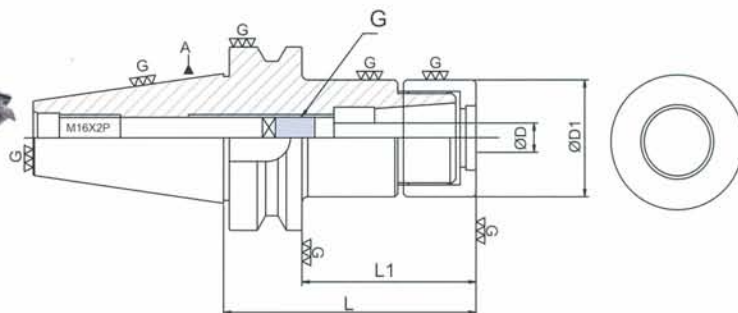


Fig.1	Fig.2	Fig.3	Fig.4			
STANDARD NUT 普通螺帽	Model No.	Fig.	A	C	B	Collet Type
	(WER16)W16	1	45	25	137	ER16
	(WER20)W20	1	54	30	162	ER20
	(WER25)W25	2	65	37	206	ER25
	(WER32)W32	2	75	46.5	253	ER32
	(WER40)W40	2	90	58	289	ER40
M-TYPE NUT M型螺帽	Model No.	Fig.	A	C	B	Collet Type
	WM11(M type)	3	17	8.5	95	ER11
	WM16(M type)	3	22.5	12.5	117	ER16
	WM20(M type)	3	28.5	15.5	127	ER20
BEARING NUT 鋼珠螺帽	Model No.	Fig.	D		B	Collet Type
	WER16B	4	32		205	ER16
	WER20B	4	36		220	ER20
	WER25B	4	43		235	ER25
	WER32B	4	51		255	ER32
	WER40B	4	63		260	ER40



ASK HIGH SPEED COLLET CHUCK

ASK HIGH SPEED COLLET CHUCK 高轉速精密筒夾本體 BT30/BT40/BT50



MODEL NO.	D1	L1	L	CLAMPING RANGE
BT30-ASK06-60	20	40	60	2-6
BT30-ASK06-80	20	60	80	2-6
BT30-ASK10-70	27	50	70	2-10
BT30-ASK10-95	27	75	95	2-10
BT30-ASK16-60	40	35	60	3-16
BT30-ASK16-80	40	60	80	3-16
BT30-ASK16-100	40	80	100	3-16
BT30-ASK25-85	54	65	85	6-25.4
BT40-ASK6-65	20	40	65	2-6
BT40-ASK6-85	20	60	85	2-6
BT40-ASK10-55	27	30	55	2-10
BT40-ASK10-80	27	55	80	2-10
BT40-ASK10-100	27	75	100	2-10
BT40-ASK10-150	27	125	150	2-10
BT40-ASK16-55	40	30	55	3-16
BT40-ASK16-80	40	55	80	3-16
BT40-ASK16-100	40	75	100	3-16
BT40-ASK16-150	40	125	150	3-16
BT40-ASK25-70	54	45	70	6-25.4
BT40-ASK25-95	54	70	95	6-25.4
BT40-ASK25-110	54	85	110	6-25.4
BT50-ASK6-70	20	35	70	2-6
BT50-ASK6-100	20	65	100	2-6
BT50-ASK10-100	27	65	100	2-10
BT50-ASK10-130	27	95	130	2-10
BT50-ASK10-150	27	115	150	2-10
BT50-ASK16-100	40	65	100	3-16
BT50-ASK16-130	40	95	130	3-16
BT50-ASK16-150	40	115	150	3-16
BT50-ASK25-100	54	65	100	6-25.4
BT50-ASK25-130	54	95	130	6-25.4
BT50-ASK25-150	54	115	150	6-25.4

Features:

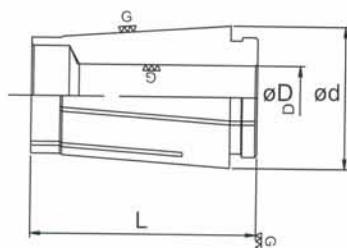
- ASK tooling systems are suitable for high-speed and high precision cutting.
- Special nuts design provided better cutting conditions and reducing cutting vibrations.
- Wrench not included.
- Use the AA grade type ASK collets can be achieve the best cutting condition.
- Max speed: 30,000 r.p.m G2.5
- ASK系列適用於高轉速、高精密切削加工。切削效果佳。
- 螺帽獨特設計：高轉速切削時，降低風阻及切削噪音並提高工作效能
- ASK板手為另購品。
- Max speed: 30,000r.p.m G2.5





ASK HIGH SPEED COLLET

ASK HIGH SPEED COLLET 精密筒夾 ASK06/ASK10/ASK16/ASK25



ASK06

Model NO.	ØD	RANGE	Ød	L
ASK6-2	2	2-1.75		
ASK6-2.5	2.5	2.5-2.25		
ASK6-3	3	3-2.75		
ASK6-3.5	3.5	3.5-3		
ASK6-4	4	4-3.5	10.4	25
ASK6-4.5	4.5	4.5-4		
ASK6-5	5	5-4.5		
ASK6-5.5	5.5	5.5-5		
ASK6-6	6	6-5.5		

ASK10

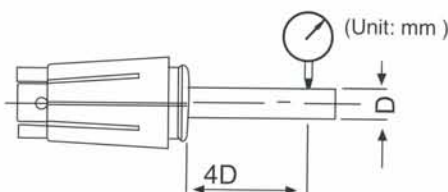
Model NO.	ØD	RANGE	Ød	L
ASK10-2	2	2-1.75		
ASK10-2.5	2.5	2.5-2.25		
ASK10-3	3	3-2.75		
ASK10-3.175	3.175	3.175-2.7		
ASK10-3.5	3.5	3.5-3		
ASK10-4	4	4-3.5		
ASK10-4.5	4.5	4.5-5		
ASK10-5	5	5-4.5	15.6	31
ASK10-5.5	5.5	5.5-5		
ASK10-6	6	6-5.5		
ASK10-6.5	6.5	6.5-6		
ASK10-7	7	7-6.5		
ASK10-7.5	7.5	7.5-7		
ASK10-8	8	8-7.5		
ASK10-8.5	8.5	8.5-8		
ASK10-9	9	9-8.5		
ASK10-9.5	9.5	9.5-9		
ASK10-10	10	10-9.5		

ASK16

Model NO.	ØD	RANGE	Ød	L
ASK16-3	3	3-2.75		
ASK16-3.175	3.175	3.175-2.7		
ASK16-3.5	3.5	3.5-3		
ASK16-4	4	4-3.5		
ASK16-4.5	4.5	4.5-4		
ASK16-5	5	5-4.5		
ASK16-5.5	5.5	5.5-5		
ASK16-6	6	6-5.5		
ASK16-6.5	6.5	6.5-6		
ASK16-7	7	7-6.5		
ASK16-7.5	7.5	7.5-7		
ASK16-8	8	8-7.5		
ASK16-8.5	8.5	8.5-8		
ASK16-9	9	9-8.5		
ASK16-9.5	9.5	9.5-9	24.6	45
ASK16-10	10	10-9.5		
ASK16-10.5	10.5	10.5-10		
ASK16-11	11	11-10.5		
ASK16-11.5	11.5	11.5-11		
ASK16-12	12	12-11.5		
ASK16-12.5	12.5	12.5-12		
ASK16-13	13	13-12.5		
ASK16-13.5	13.5	13.5-13		
ASK16-14	14	14-13.5		
ASK16-14.5	14.5	14.5-14		
ASK16-15	15	15-14.5		
ASK16-15.5	15.5	15.5-15		
ASK16-16	16	16-15.5		

ASK25

Model NO.	ØD	RANGE	Ød	L
ASK25-6	6	6-5.5		
ASK25-8	8	8-7.5		
ASK25-10	10	10-9.5		
ASK25-12	12	12-11.5		
ASK25-14	14	14-13.5		
ASK25-16	16	16-15.5	35.7	57
ASK25-18	18	18-17.5		
ASK25-20	20	20-19.5		
ASK25-22	22	22-21.5		
ASK25-24	24	24-23.5		
ASK25-25	25	25-24.5		
ASK25-25.4	25.4	25.4-25		



筒夾等級	跳動精度/Runout-Max μm
COLLET GRADE	4倍直徑前-4xD
A級	$\leq 10 \mu m$
AA級	$\leq 5 \mu m$

- When ordering, please specify the GRADE for ASK COLLETS is A or AA TYPE .
- The GRIPPING RANGE OF DIA BELOW 3mm is 0.25mm.
- The GRIPPING RANGE OF DIA OVER 3mm is 0.50mm.
- 請於訂購註明AA級或A級=> For example/例 ASK10-06AA
- 筒夾的口徑小於3mm其夾持範圍為0.25mm。口徑大於3mm則為0.50mm



ASK COLLET SET/WRENCH/NUT

ASK COLLET SET-ASK 精密筒夾組

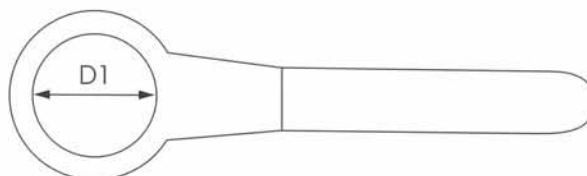
Model NO.	SPEC.
ASK10-8PCS	3,4,5,6,7,8,9,10
ASK16-7PCS	3,4,6,8,10,12,16
ASK25-7PCS	6,8,10,12,16,20,25

- When ordering, please specify the GRADE for ASK COLLETS is A or AA TYPE .
- The GRIPPING RANGE OF DIA BELOW 3mm is 0.25mm.
- The GRIPPING RANGE OF DIA OVER 3mm is 0.50mm.
- 請於訂購註明AA級或A級=> For example/例
ASK10-8PCSAA
- 筒夾的口徑小於3mm其夾持範圍為0.25mm。口徑大於3mm則為0.50mm



ASK WRENCH-軸承板手

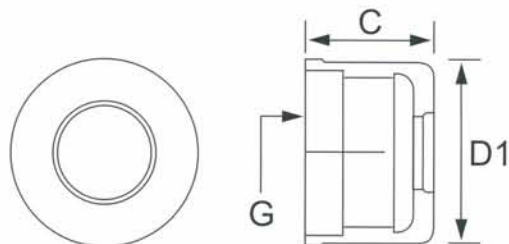
ASK06/ASK10/ASK16/ASK25



Model NO.	D1
WASK06	20
WASK10 (WVC6)	27
WASK16 (WVC12)	40
WASK25 (WASG20)	54

ASK NUT-螺帽

ASK06 / ASK10 / ASK16 / ASK25

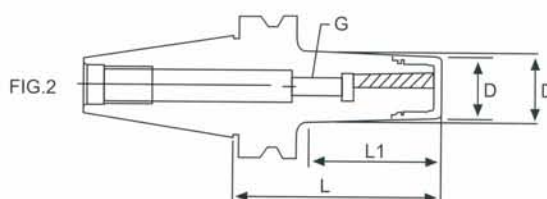
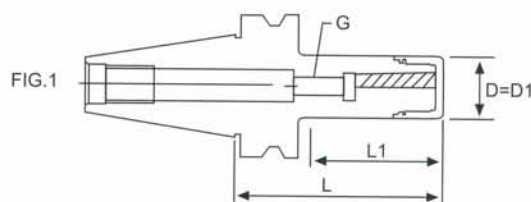


Model NO.	D1	C	G
WASK06-NUT	20	15	M15x1.0P
WASK10-NUT	27	18	M22x1.0P
WASK16-NUT	40	25	M32x1.5P
WASK25-NUT	54	32	M45x1.5P



AVC HIGH SPEED COLLET CHUCK

AVC HIGH SPEED COLLET CHUCK - 高轉速高精度立銑刀本體 BT30 / BT40 / BT50



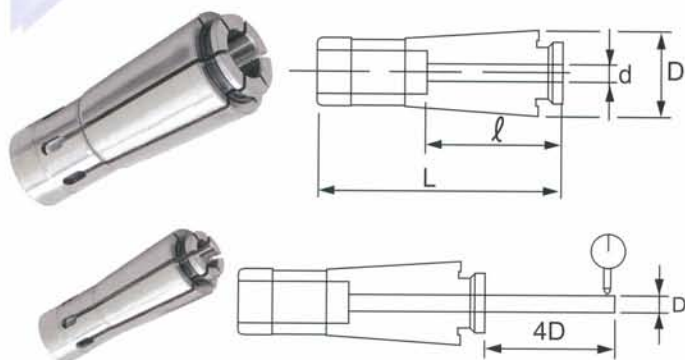
Model No.	D	D1	FIG	L	L1	CLAMPING RANGE
BT30-AVC06-45	27	27	1	45	23	2-6
BT30-AVC06-60	27	29	2	60	35	2-6
BT30-AVC06-90	27	32	2	90	65	2-6
BT30-AVC12-60	40	40	1	60	37	3-12
BT30-AVC12-90	40	40	1	90	67	3-12
BT30-AVC12-120	40	40	1	120	97	3-12
BT40-AVC06-60	27	27	1	60	30	2-6
BT40-AVC06-90	27	31	2	90	60	2-6
BT40-AVC06-120	27	34	2	120	90	2-6
BT40-AVC12-60	40	40	1	60	31	3-12
BT40-AVC12-90	40	44	2	90	60	3-12
BT40-AVC12-120	40	47	2	120	90	3-12
BT50-AVC06-105	27	32	2	105	62	2-6
BT50-AVC06-135	27	35	2	135	92	2-6
BT50-AVC06-165	27	38	2	165	122	2-6
BT50-AVC12-105	40	44	2	105	62	3-12
BT50-AVC12-135	40	47	2	135	92	3-12
BT50-AVC12-165	40	51	2	165	122	3-12

- Long type collets with small angle increase cutting rigidity and clamping force on end mills.
- Special nuts design provided better cutting conditions and reducing cutting vibrations.
- Max speed: 30,000 r.p.m G2.5.
- Wrench not included.
- 8° 長筒夾設計，提昇高夾持力，高剛性及高精度。
- 刀柄壁厚的設計大幅提昇切削剛性。
- Max speed: 30,000 r.p.m G2.5
- 螺帽獨特設計：高轉速切削時降低風阻及切削噪音並提昇工作效能。
- AVC板手為另購品。



AVC COLLET / WRENCH / NUT

AVC COLLET- 高精度立銑刀筒夾



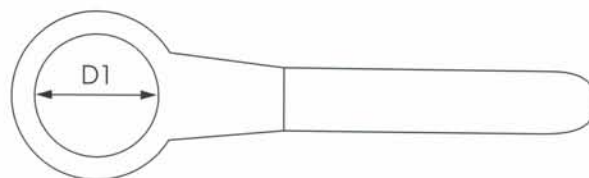
筒夾等級	跳動精度/Runout-Max μm
COLLET GRADE	4倍直徑前-4xD
A級	$\leq 10 \mu\text{m}$
AA級	$\leq 5 \mu\text{m}$

Model No.	Ød	l	L	D
AVC6-2	2	14	40	14
AVC6-3	3	16	40	14
AVC6-4	4	18	40	14
AVC6-5	5	20	40	14
AVC6-6	6	22	40	14
AVC12-3	3	16	54	21
AVC12-4	4	18	54	21
AVC12-5	5	20	54	21
AVC12-6	6	22	54	21
AVC12-7	7	25	54	21
AVC12-8	8	28	54	21
AVC12-9	9	28	54	21
AVC12-10	10	30	54	21
AVC12-11	11	30	54	21
AVC12-12	12	32	54	21

- When ordering, please specify the GRADE for AVC collet is A or AA TYPE .
- The tolerance of the tool shank should be h7
- 請於訂購註明AA級或A級=>

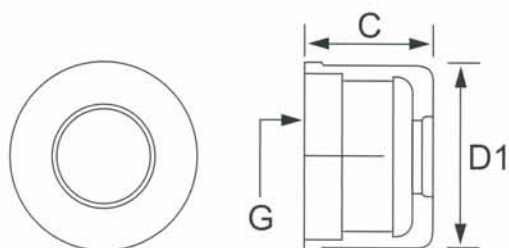
For example/例
AVC12-8AA
- AVC筒夾夾持刀具柄徑公差為h7

AVC WRENCH-軸承板手 AVC06 / AVC12



Model NO.	D1
WAVC6 (WASK10)	27
WAVC12 (WASK16)	40

AVC NUT-螺帽 AVC06 / AVC12



Model NO.	D1	C	G
WAVC6-NUT	27	22	M21.5xP1.0
WAVC12-NUT	40	28	M34xP1.0



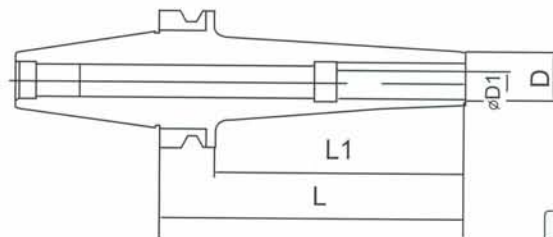
ADS HIGH SPEED COLLET CHUCK

ADS HIGH SPEED COLLET CHUCK-後拉夾頭刀把 BT30/BT40/BT50



ADS06,ADS08:5mm Hex-Wrench
ADS12,ADS16:8mm Hex-Wrench

- 夾持刀具使用5mm六角板手(ADS06,ADS08)
- 夾持刀具使用8mm六角板手(ADS12,ADS16)



(Unit: mm)

Model No.	D	L1	L	ØD1 COLLET
BT30-ADS06-60	13	40	60	Ø2~Ø6
BT30-ADS06-90	13	70	90	Ø2~Ø6
BT30-ADS08-55	16	35	55	Ø3~Ø8
BT30-ADS08-75	16	55	75	Ø3~Ø8
BT30-ADS12-80	23	60	80	Ø3~Ø12
BT30-ADS12-110	23	90	110	Ø3~Ø12
BT40-ADS06-60	13	35	60	Ø2~Ø6
BT40-ADS06-90	13	65	90	Ø2~Ø6
BT40-ADS06-100	13	95	120	Ø2~Ø6
BT40-ADS06-150	13	125	150	Ø2~Ø6
BT40-ADS08-65	16	40	65	Ø3~Ø8
BT40-ADS08-85	16	60	85	Ø3~Ø8
BT40-ADS08-105	16	80	105	Ø3~Ø8
BT40-ADS12-90	23	65	90	Ø3~Ø12
BT40-ADS12-135	23	110	135	Ø3~Ø12
BT40-ADS16-95	28	70	95	Ø8~Ø16
BT40-ADS16-125	28	100	125	Ø8~Ø16
BT50-ADS08-95	16	60	95	Ø3~Ø8
BT50-ADS08-110	16	75	110	Ø3~Ø8
BT50-ADS12-100	23	55	100	Ø3~Ø12
BT50-ADS12-150	23	115	150	Ø3~Ø12
BT50-ADS16-100	28	65	100	Ø8~Ø16
BT50-ADS16-125	28	90	125	Ø8~Ø16

- ADS tooling systems are suitable for high-speed and high precision cutting. Tool holder designed without nut that reduce the vibration of cutting.
- Each ADS tool holder enclosed 1PC wrench.
- Max speed: 30,000 r.p.m G2.5
- ADS 刀桿適用於高速精密加工。無螺帽設計，加工時降低物件干涉。筒夾後拉式設計：裝取簡易操作。
- 每支刀桿附1支板手

ADS HIGH SPEED COLLET CHUCK COOLANT (CL) TYPE (Optional)

-後拉夾頭刀把-冷卻液貫穿型(選購)

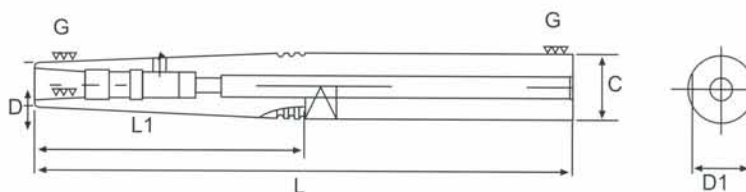


- ADS tool holder special designed for "COOLANT TYPE". When ordering ADS COOLANT TYPE, please add CL to the end of Model No. For example/例 "COOLANT TYPE". ADS12 / ADS16.
BT40 ADS12-90-CL
- ADS 刀把特別設計可供冷卻液貫穿，冷卻液由筒夾間隙貫穿。請於訂購時，在型號後面加-CL。
- 適用於 ADS12 / ADS16 刀把。



ADS STRAIGHT SHANK HIGH SPEED CHUCK & ADS COLLET

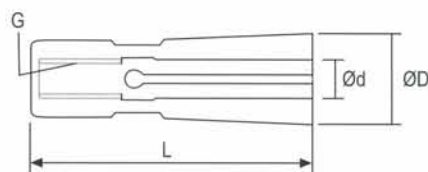
C20/C25-直柄後拉夾頭刀把



Model NO.	C	D	L1	D1	L	ØD1 COLLET
C16-ADS06-150	16	13	38	--	150	Ø2~Ø6
C20-ADS06-200	20	13	70	--	200	Ø2~Ø6
C20-ADS08-150	20	16	50	17	150	Ø3~Ø8
C20-ADS08-200	20	16	100	17	200	Ø3~Ø8
C25-ADS08-150	25	16	50	22	150	Ø3~Ø8
C25-ADS08-200	25	16	100	22	200	Ø3~Ø8

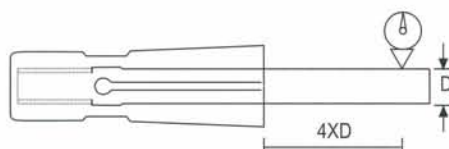
- Straight shank for ADS high speed collet chuck . Each ADS tool holder enclosed 1 PC wrench.
- 每支刀桿附1支板手

ADS COLLET-後拉筒夾



Model NO.	Ød COLLET	D	L	G
ADS06	2,3,3.175,4,5,6	9.6	36	M5X0.8P
ADS08	3,4,5,6,7,8	12	37	M5X0.8P
ADS12	3,4,5,6,7,8,9,10,11,12	18	63	M8X1.25P
ADS16	5,6,7,8,9,10,11,12,13,14,15,16	24	61	M8X1.25P

筒夾等級 COLLET GRADE	跳動精度/Runout-Max μm 4倍直徑前-4xD
A A級	$\leq 5 \mu m$



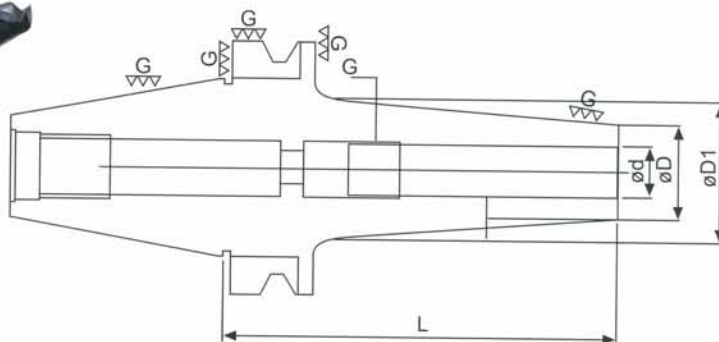
- ADS collet-AA GRADE: RUNOUT:0.005mm(4XD) for optional purchase. When ordering, please specify the GRADE to AA GRADE.
- 另有ADS-AA 級-RUNOUT:0.005mm(4XD)可供選擇。請於訂購時註明AA級。

For example/例
ADS08-06AA



ASR SHRINK CHUCK

ASR SHRINK CHUCK- 燒結式刀把 BT30/BT40/BT50



MODEL NO.	Ød	ØD	ØD1	L
BT30-ASR04-75	4	14	19	75
BT30-ASR05-75	5	16	21	75
BT30-ASR06-75	6	16	21	75
BT30-ASR08-75	8	18	23	75
BT30-ASR10-75	10	22	27	75
BT30-ASR12-75	12	24	29	75
BT30-ASR16-75	16	28	33	75
BT40-ASR04-90	4	14	20	90
BT40-ASR05-90	5	16	22	90
BT40-ASR06-90	6	16	22	90
BT40-ASR08-90	8	18	24	90
BT40-ASR10-90	10	22	28	90
BT40-ASR12-90	12	24	30	90
BT40-ASR16-90	16	28	34	90
BT40-ASR20-100	20	34	41	100
BT40-ASR25-100	25	44	51	100
BT40-ASR32-100	32	44	51	100
BT50-ASR06-105	6	14	21	105
BT50-ASR08-105	8	18	25	105
BT50-ASR10-105	10	22	29	105
BT50-ASR12-105	12	24	31	105
BT50-ASR16-105	16	28	35	105
BT50-ASR20-105	20	34	41	105
BT50-ASR25-105	25	44	51	105
BT50-ASR32-105	32	44	51	105

- Heater specification machine =>refer to p21
- Max speed: 40,000 r.p.m
- 刀把加熱器規格請參考=> p21。
- 刀具限用鎢鋼刀具。



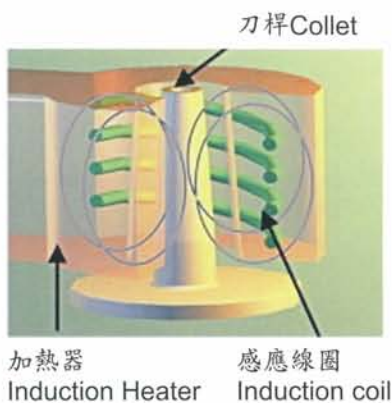
INDUCTION SHRINK MACHINE

INDUCTION SHRINK MACHINE- 燒結機・冷卻機



- 機 型：306MC燒結機・冷卻機
- 加熱方式：電磁感應
- 電 源：220VAC 50/60Hz
- 額定電流：20A
- 消耗電力：3KW
- 尺 寸：232mm(W)X305mm(D)X605mm(H)
- 加熱時間：6-15秒
- 加熱頭內徑：Ø35mm
- 刀把形式：HSK50/ HSK63/ HSK80/ BT40/ BT50 (依需求選配)
- MODEL:306MC INDUCTION SHRINKING UNIT
- HEATING: INDUCTION
- POWER: 220VAC 50/60HZ
- RATED AMPERE: 20A
- POWER CONSUMPTION :3KW
- DIMENSIONS: 232mm(W)X305mm(D)X605mm(H)
- SHRINKING PERIOD: 6-15 SEC.
- INDUCTION HEAD ID: Ø35mm
- HOLDER SUPPORT: HSK50/ HSK63/ HSK80/ BT40/ BT50 (OPIN)

冷卻器控制盒	COOLING UNIT
電源：220VAC 50/60HZ	Power 220VAC 50/60HZ
適用空器壓力：2~5kgf/cm ²	Operation air pressure range:2~5kgf/cm ²
冷卻定時器：0~10分鐘	Cooling timer:0~10min



快速加熱原理

由加熱器內之感應線圈，產生高頻磁力使刀桿感應渦電流而直接發熱，不須熱風傳導，加熱迅速，提昇您的換刀效率。

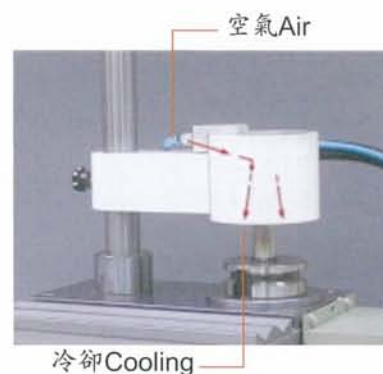
The unit with out hot-air source, The eddy current give out heat form high frequency magnetic field. Shorter cycle time and easily operation.



操作容易

刀桿被加熱到換刀溫度後，加熱器不發燙，讓您輕鬆換刀。

The collet will be given heat from magnetic field to avoid Induction heater too hot when user is changing cutter.



冷卻器功能說明

壓縮空氣由加熱器內緣，以環狀出口由上往下吹氣，以達到快速冷卻效果。

In the shrinking unit is with circular air outlet for cooling air from up side blow to down.

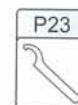
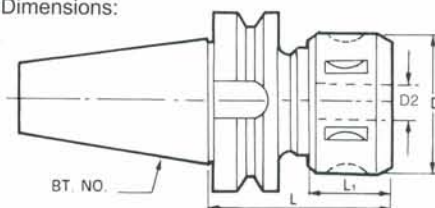


OZ COLLET CHUCK

OZ COLLET CHUCK-重切削筒夾本體 BT30/BT40/BT50



■Dimensions:



Wrench

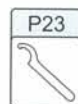
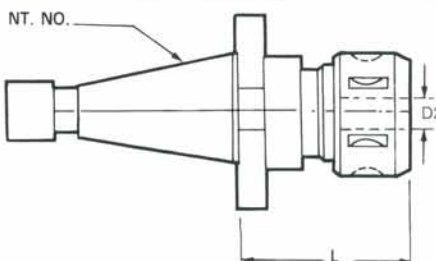
OZ collet

(Unit: mm)

Model NO.	D2	L	D	L1	Collets
BT40-OZ25-80	3-25	80	60	30	OZ25
BT40-OZ25-120	3-25	120	60	30	OZ25
BT40-OZ32-80	6-32	80	72	33	OZ32
BT40-OZ32-150	6-32	150	72	33	OZ32
BT50-OZ25-90	3-25	90	60	30	OZ25
BT50-OZ25-130	3-25	130	60	30	OZ25
BT50-OZ32-105	6-32	105	72	33	OZ32
BT50-OZ32-150	6-32	150	72	33	OZ32

- BTshank for OZ COLLET CHUCK can clamp drills, reamers, end mills and taps. Wrench and OZ collet not included.
- OZ重切削刀桿可用於夾持鉗頭、銑刀及絲攻刀具。

NT30/NT40/NT50



Wrench

OZ collet

(Unit: mm)

Model No.	D2	L	Collet Type	Draw Bar
NT30-OZ25-70	3-25	70	OZ25	M12 x 1.75P
NT30-OZ32-70	6-32	70	OZ32	1/2"-12
NT40-OZ25-70	3-25	70	OZ25	M16 x 2.0P
NT40-OZ32-70	6-32	70	OZ32	5/8"-11
NT50-OZ25-80	3-25	80	OZ25	M24 x 3.0P
NT50-OZ32-80	6-32	80	OZ32	1"-8

- When ordering, please specify the draw bolt for inch size or metric size.請於訂購時確認刀桿為公制或英制牙。

MT5 Morse taper shank

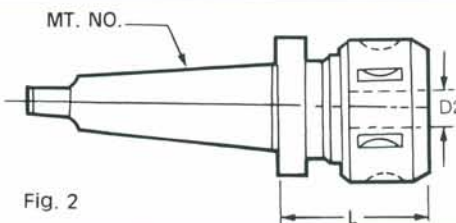
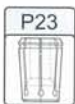
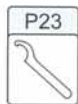


Fig. 2



Wrench

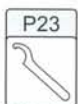
OZ collet

(Unit: mm)

Model No.	D2	L	Collet Type
MT5-OZ25-75	3-25	75	OZ25
MT5-OZ32-75	6-32	75	OZ32

- Wrench and OZ collet not included. 板手及筒夾為另購品。

R8 Taper shank



Wrench

OZ collet

(Unit: mm)

Model No.	D2	L	Collet Type
R8-OZ25	3-25	--	OZ25
R8-OZ32	6-32	--	OZ32

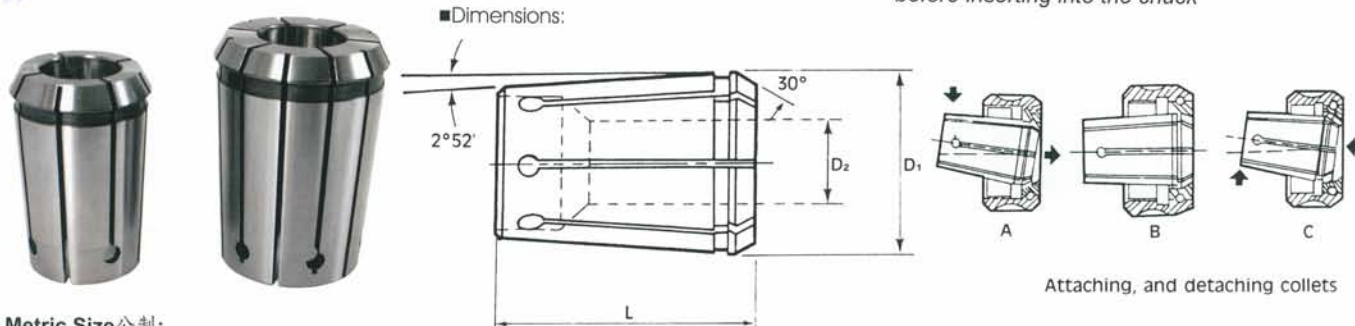
- Wrench and OZ collet not included. 板手及筒夾為另購品。

AN OZ COLLET CHUCK / OZ COLLET CHUCK SET

OZ COLLETS-重切削筒夾/索咀

OZ25/OZ32

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



Metric Size 公制:

Model No.	D1	L	D2
OZ25	35.5	52	3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25
OZ32	44	60	6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32

Inch Size 英制:

Model No.	D1	L	D2 (inch)
OZ25	35.5	52	1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1"
OZ32	44	60	1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1", 1-1/8", 1-1/4"

OZ COLLETS SETS-重切削筒夾組

OZ25 COLLET SETS

Metric Size 公制:

Model No.	SPEC	PCS/SET
OZ25-7 PCS	6,8,10,12,16,20,25	7PCS/SET
OZ25-15 PCS	3,4,5,6,7,8,9,10,11,12,13,16,18,20,25	15PCS/SET

Inch Size 英制:

Model No.	SPEC	PCS/SET
OZ25-7 PCS	1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 1"	7PCS/SET
OZ25-15 PCS	1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1"	15PCS/SET

OZ32 COLLET SETS

Metric Size 公制:

Model No.	SPEC	PCS/SET
OZ32-8 PCS	6,8,10,12,16,20,25,32	8PCS/SET
OZ32-15 PCS	6,8,10,12,13,14,15,16,18,20,22,25,26,30,32	15PCS/SET

Inch Size 英制:

Model No.	SPEC	PCS/SET
OZ32-10 PCS	1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/8", 1-1/4"	10PCS/SET
OZ32-15 PCS	1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1-1/8", 1-1/4"	15PCS/SET



- When ordering, please specify the OZ COLLETS for inch size or metric size.請於訂購時確認筒夾為公制或英制牙。

OZ NUT-重切削 OZ 螺帽

Model No.	C	D1	D3	Collets
BN25	30	60	M48x2	OZ 25
BN32	33	78	M60x2.5	OZ 32

(Unit: mm)



OZ WRENCH-OZ 板手

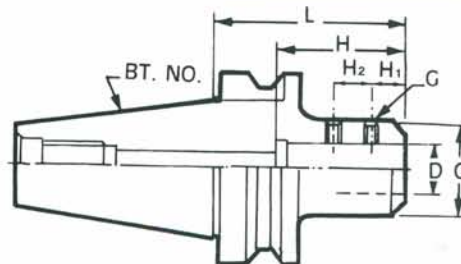


Model No.	D1	Collets
WOZ25	60	OZ 25
WOZ32	78	OZ 32



SLA END MILL HOLDER

SLA END MILL HOLDER-側固端銑刀把 BT30/BT40/BT50



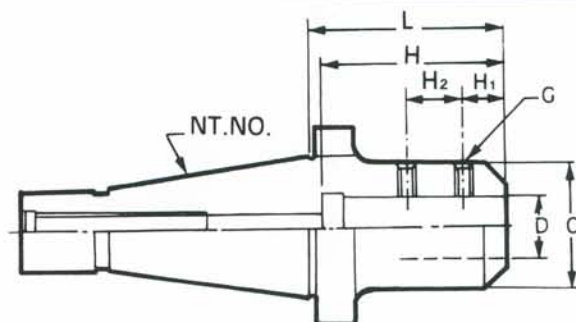
Model NO.	D	C	H	L	H1	H2	G
BT30-SLA 6-60	6	25	32	60	12	10	M6
BT30-SLA 8-60	8	28	36	60	14	12	M8
BT30-SLA10-60	10	35	40	60	15	14	M10
BT30-SLA12-60	12	40	45	60	20	16	M10
BT30-SLA16-75	16	45	50	75	22	18	M10
BT30-SLA20-75	20	50	60	75	25	20	M12
BT30-SLA25-75	25	55	65	75	25	22	M12
BT40-SLA 6-75	6	25	32	75	12	10	M6
BT40-SLA 6-100	6	25	32	100	12	10	M6
BT40-SLA 8-75	8	28	36	75	14	12	M8
BT40-SLA 8-100	8	28	36	100	14	12	M8
BT40-SLA10-75	10	35	40	75	15	14	M10
BT40-SLA10-100	10	35	40	100	15	14	M10
BT40-SLA12-75	12	40	45	75	20	16	M10
BT40-SLA12-100	12	40	45	100	20	16	M10
BT40-SLA14-75	14	42	45	75	18	16	M10
BT40-SLA14-100	14	42	45	100	18	16	M10
BT40-SLA16-75	16	45	50	75	20	18	M10
BT40-SLA16-100	16	45	50	100	20	18	M10
BT40-SLA18-75	18	48	50	75	22	18	M12
BT40-SLA18-100	18	48	50	100	22	18	M12
BT40-SLA20-75	20	50	60	75	25	20	M12
BT40-SLA20-100	20	50	60	100	25	20	M12
BT40-SLA25-75	25	55	65	75	25	22	M12
BT40-SLA25-100	25	55	65	100	25	22	M12
BT40-SLA32-90	32	60	70	90	30	22	M16
BT40-SLA40-105	40	80	80	105	30	22	M16
BT40-SLA42-105	42	80	80	105	35	25	M20
BT50-SLA 6-105	6	25	32	105	12	10	M6
BT50-SLA 8-105	8	28	36	105	14	12	M8
BT50-SLA10-105	10	35	40	105	15	14	M10
BT50-SLA12-105	12	40	45	105	20	16	M10
BT50-SLA14-105	14	42	45	105	18	16	M10
BT50-SLA16-105	16	45	50	105	22	18	M10
BT50-SLA18-105	18	48	55	105	22	18	M10
BT50-SLA20-105	20	50	60	105	25	20	M12
BT50-SLA20-150	20	50	60	150	25	20	M12
BT50-SLA20-200	20	50	60	200	25	20	M12
BT50-SLA25-105	25	55	60	105	25	22	M12
BT50-SLA25-150	25	55	65	150	25	22	M12
BT50-SLA25-200	25	55	65	200	25	22	M12
BT50-SLA25-250	25	55	65	250	25	22	M12
BT50-SLA32-105	32	60	70	105	30	22	M16
BT50-SLA32-150	32	60	70	150	30	22	M16
BT50-SLA32-200	32	60	70	200	30	22	M16
BT50-SLA32-250	32	60	70	250	30	22	M16
BT50-SLA40-105	40	80	80	105	30	22	M16
BT50-SLA42-105	42	80	80	105	35	25	M20
BT50-SLA42-150	42	80	80	150	35	25	M20
BT50-SLA42-200	42	80	80	200	35	25	M20
BT50-SLA50.8-105	50.8	95	90	105	35	25	M20
BT50-SLA50.8-150	50.8	95	90	150	35	25	M20

- For straight shank end mills.
- End mills are held by two set screws.
- End mill holders come equipped with set screws.
- 適用於夾持銑刀可用在一般銑削加工。



SLA END MILL HOLDER

SLA END MILL HOLDER-側固端銑刀把 NT30/NT40/NT50



(Unit: mm)

Model NO.	D	C	H	L	H1	H2	G	Draw Bar
NT30-SLA 6-55	6	25	32	55	12	10	M6	1/2-12 M12x1.75P
NT30-SLA 8-55	8	28	36	55	14	12	M8	
NT30-SLA10-55	10	35	40	55	15	14	M10	
NT30-SLA12-55	12	40	45	55	18	16	M10	
NT30-SLA16-60	16	45	50	60	20	18	M10	
NT30-SLA20-65	20	50	60	65	25	20	M12	
NT30-SLA25-75	25	55	65	75	25	22	M12	5/8-11 M16x2.0P
NT40-SLA 6-55	6	25	32	55	12	10	M6	
NT40-SLA 8-55	8	28	36	55	14	12	M8	
NT40-SLA10-55	10	35	40	55	15	14	M10	
NT40-SLA12-55	12	40	45	55	20	16	M10	
NT40-SLA16-60	16	45	50	60	22	18	M10	
NT40-SLA20-65	20	50	60	65	25	20	M12	
NT40-SLA25-75	25	55	65	75	25	22	M12	
NT40-SLA32-90	32	60	70	90	30	22	M16	1"-8 M24x3.0P
NT40-SLA42-105	42	80	80	105	32	24	M16	
NT50-SLA 6-90	6	25	32	90	12	10	M6	
NT50-SLA 8-90	8	28	36	90	14	12	M8	
NT50-SLA10-90	10	35	40	90	15	14	M10	
NT50-SLA12-90	12	40	45	90	18	16	M10	
NT50-SLA16-90	16	45	50	90	20	18	M10	
NT50-SLA20-90	20	50	60	90	25	20	M12	
NT50-SLA20-150	20	50	60	150	25	20	M12	
NT50-SLA25-90	25	55	65	90	25	22	M12	
NT50-SLA25-150	25	55	65	150	25	22	M12	
NT50-SLA32-90	32	60	70	90	30	22	M16	
NT50-SLA32-150	32	60	70	150	30	22	M16	
NT50-SLA32-200	32	60	70	200	30	22	M16	
NT50-SLA42-105	42	80	80	105	32	24	M16	
NT50-SLA50.8-105	50.8	95	90	105	35	25	M20	

- When ordering, please specify the draw bolt for inch size or metric size.

- For straight shank end mills.

- End mills are held by two set screws.

- End mill holders come equipped with set screws.

- 適用於夾持銑刀可用在一般切削加工。

- 請於訂購時確認刀桿為公制或英制。

R8 Taper shank



(Unit: mm)

Model NO.	D	C	H	L	H1	H2	G
R8-SLA 6-55	6	25	32	55	12	10	M6
R8-SLA 8-55	8	28	36	55	14	12	M8
R8-SLA10-55	10	35	40	55	15	14	M10
R8-SLA12-55	12	40	45	55	18	16	M10
R8-SLA16-60	16	45	50	60	20	18	M10
R8-SLA20-65	20	50	60	65	25	20	M12
R8-SLA25-75	25	55	65	75	25	22	M12

- For straight shank end mills.

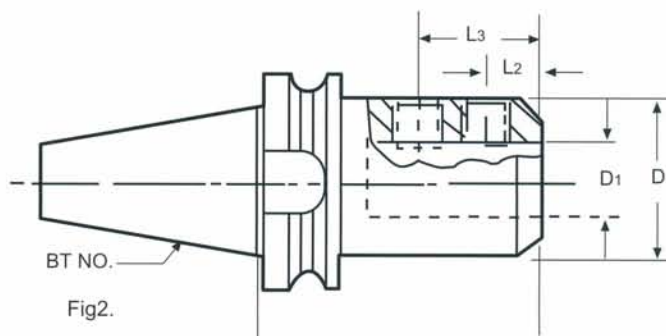
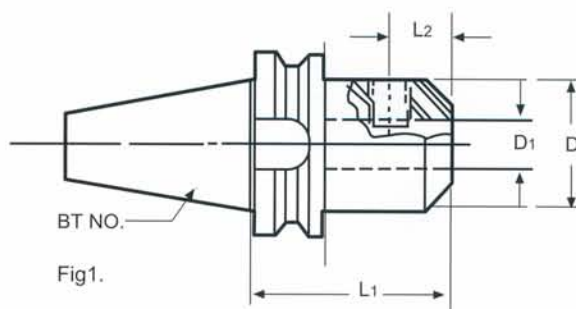
- End mills are held by two set screws.

- End mill holders come equipped with set screws.

- 適用於夾持銑刀可用在一般切削加工。



EM END MILL HOLDER-側固端銑刀把(歐規)



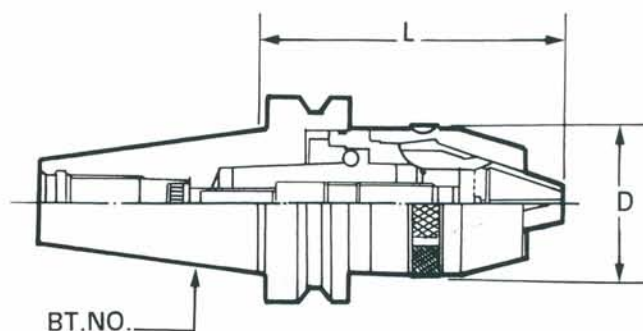
Model No.	Fig.	D1	D	L1	L2	L3
BT30-EM 6-50	1	6	25	50	18	--
BT30-EM 8-50	1	8	28	50	18	--
BT30-EM10-50	1	10	35	50	20	--
BT30-EM12-50	1	12	42	50	22.5	--
BT30-EM16-63	1	16	48	63	24	--
BT30-EM20-70	1	20	52	70	25	--
BT40-EM 6-50	1	6	25	50	18	--
BT40-EM 8-50	1	8	28	50	18	--
BT40-EM10-63	1	10	35	63	20	--
BT40-EM12-63	1	12	42	63	22.5	--
BT40-EM16-63	1	16	48	63	24	--
BT40-EM20-63	1	20	52	63	25	--
BT40-EM25-90	2	25	65	90	24	49
BT40-EM32-100	2	32	72	100	24	52
BT50-EM 6-63	1	6	25	63	18	--
BT50-EM 8- 63	1	8	28	63	18	--
BT50-EM10- 63	1	10	35	63	63	--
BT50-EM12- 80	1	12	42	80	22.5	--
BT50-EM16- 80	1	16	48	80	24	--
BT50-EM20- 80	1	20	52	80	25	--
BT50-EM25-100	2	25	65	100	24	49
BT50-EM32-105	2	32	72	105	24	52
BT50-EM40-110	2	40	90	110	30	62

- For straight shank end mills.
- End mills are held by one or two set screws.
- End mill holders come equipped with set screws.
- 適用於夾持銑刀可用在一般切削加工。



APU DRILL CHUCK HOLDER

APU DRILL CHUCK HOLDER-直截式鉗夾頭刀把 BT30/BT40/BT50

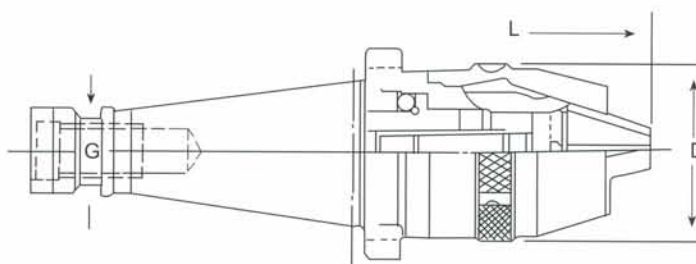


(Unit: mm)

Model NO.	Clamping range (ϕ mm)	D	L	
			Minimum	Maximum
BT30-APU08-80	1-8	36.3	75	82
BT30-APU13-100	1-13	51.5	97	104.5
BT40-APU08-85	1-8	36.3	79	86.5
BT40-APU13-110	1-13	51.5	98	109
BT40-APU16-130	3-16	58	116	130
BT50-APU08-95	1-8	36.3	90	97.5
BT50-APU13-120	1-13	51.5	109	120
BT50-APU13-180	1-13	51.5	169	180
BT50-APU16-130	3-16	58	116	130
BT50-APU16-190	3-16	58	176	190

- The shank and keyless drill chuck are combined together so that to avoid the drill chuck slipping out for heavy-duty and high-speed cutting.
- Each APU drill chuck attached 1 PC APU wrench.
- APU刀桿和鉗夾頭結為一體，用於重型及高速切削時，鉗頭不會掉落或鬆脫，APU刀桿附板手。

NT30/NT40/NT50



(Unit: mm)

Model NO.	Clamping range (ϕ mm)	D	L		Draw Bar
			Minimum	Maximum	
NT30-APU08-80	1-8	36.3	75	82	1/2-12 or M12x1.75P
NT30-APU13-100	1-13	51.5	94	104.5	
NT40-APU08-85	1-8	36.3	79	86.5	5/8-11 or M16x2.0P
NT40-APU13-110	1-13	51.5	98	109	
NT40-APU16-130	3-16	58	116	130	1-8" or M24x3.0P
NT50-APU08-95	1-8	36.3	90	97.5	
NT50-APU13-120	1-13	51.5	109	120	
NT50-APU13-180	1-13	51.5	169	180	
NT50-APU16-130	3-16	58	116	130	
NT50-APU16-190	3-16	58	176	190	

- The shank and keyless drill chuck are combined together so that to avoid the drill chuck slipping out for heavy-duty and high-speed cutting.
- Each APU drill chuck attached 1 PC APU wrench.
- When ordering, please specify the draw bolt for inch size or metric size.
- APU刀桿和鉗夾頭結為一體，用於重型及高速切削時，鉗頭不會掉落或鬆脫，APU刀桿附板手。
- 請於訂購時確認刀桿為公制或英制。



APU INTERGAL KEYLESS DRILL CHUCK HOLDER

APU DRILL CHUCK HOLDER- 鉗夾頭刀把

MT2/MT3/MT4 Morse taper shank- 莫式錐度鉗夾頭刀把



Model No.	Description Code No.	Size	Capacity		Taper Mount No. DIN or Jacobs	Length(m/m)			Weight (g)	Spanner No
			mm	inch		A Open	B Closed	D (mm)		
MTA2-APU08	12601	8S	0.3-8	1/64-5/16	MT2	142	61	37	400	12802
MTA2-APU10	12601-1	10S	0.3-10	1/64-3/8	MT2	151	70	43	700	12804
MTA3-APU13	12602	13S	0.3-13	1/64-1/2	MT3	180	81	50	1140	12806
MTA2-APU13	12602-1	13S	0.3-13	1/64-1/2	MT2	162	81	50	1010	12806
MTA4-APU13	12603	13S	0.3-13	1/64-1/2	MT4	206	81	50	1490	12806
MTA3-APU16	12604	16S	3-16	1/8-5/8	MT3	186	85	58	1445	12808
MTA4-APU16	12605	16S	3-16	1/8-5/8	MT4	212	85	58	1770	12808

C12/C16/C20/C25/C32 Straight shank- 直柄鉗夾頭刀把



Model No.	Description Code No.	Size	Capacity		Taper Mount No. DIN or Jacobs	Length(m/m)			Weight (g)	Spanner No
			mm	inch		A Open	B Closed	D (mm)		
C12-APU03	12605-1	3S	0.3-3	1/64-1/8	D12	88.5	38.5	24	140	
C16-APU06	12605-2	6S	0.3-6	1/64-1/4	D16	104	54	33	334	12801
C20-APU08	12606	8S	0.3-8	1/64-5/16	D20	121	61	37	510	12802
C20-APU13	12607	13S	0.3-13	1/64-1/2	D20	141	81	50	1030	12806
C25-APU13	12608	13S	0.3-13	1/64-1/2	D25	161	81	50	1190	12806
C32-APU13	12609	13S	0.3-13	1/64-1/2	D32	162	81	50	1405	12806
C20-APU16	12610	16S	3-16	1/8-5/8	D20	145	85	58	1330	12808
C25-APU16	12611	16S	3-16	1/8-5/8	D25	165	85	58	1480	12808
C32-APU16	12612	16S	3-16	1/8-5/8	D32	167	85	58	1700	12808

R8 taper shank- R8鉗夾頭刀把



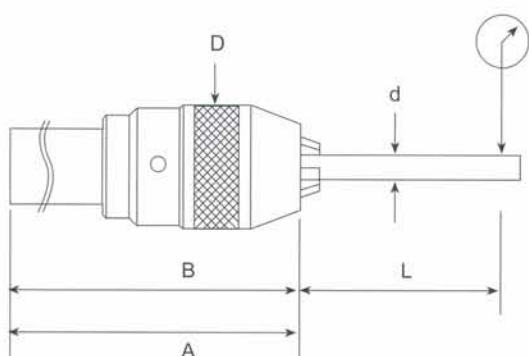
Model No.	Description Code No.	Size	Capacity		Taper Mount No. DIN or Jacobs	Length(m/m)			Weight (g)	Spanner No
			mm	inch		A Open	B Closed	D (mm)		
R8-APU13	12613	13S	0.3-13	1/64-1/2	R8	182	81	50	1260	12806
R8-APU16	12614	16S	3-16	1/8-5/8	R8	188	85	58	1530	12808

* Designed together with arbor structure makes its performance perfect for drilling press and Machined center. Precisely machines and ground components ensure the tolerance and accuracy.

* Each APU drill chuck attached 1PC APU wrench.

附有夾頭柄結構之設計，使得它更適於銑床及綜合切削機且有更趨於完美之表現。

精密的機械工學和堅固耐用的組成確保了耐力及精度。



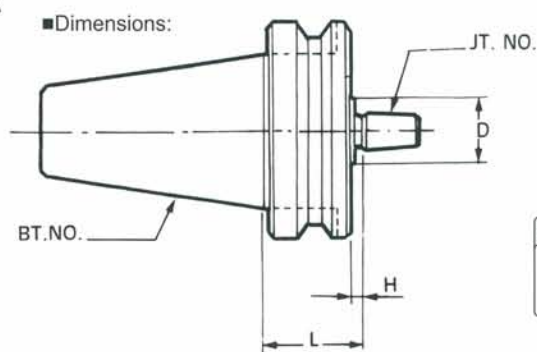
Run Out Inspection Table

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



JTA DRILL CHUCK HOLDER / JTA

JTA DRILL CHUCK HOLDER- 鉗夾頭刀把 BT30/BT40/BT50

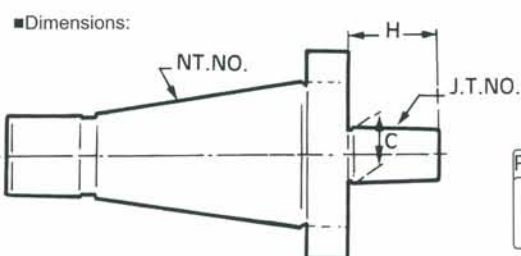


(Unit: mm)

Model NO.	JT.NO.	L	D	H
BT30-JTA1-45	JTA1	45	30	3
BT30-JTA1-90	JTA1	90	30	3
BT30-JTA2S-45	JTA2S	45	30	3
BT30-JTA2S-90	JTA2S	90	30	3
BT30-JTA2-45	JTA2	45	30	4
BT30-JTA2-90	JTA2	90	30	4
BT30-JTA6-45	JTA6	45	30	4
BT30-JTA6-90	JTA6	90	30	4
BT40-JTA1-45	JTA1	45	30	3
BT40-JTA1-90	JTA1	90	30	3
BT40-JTA2S-45	JTA2S	45	30	3
BT40-JTA2S-90	JTA2S	90	30	3
BT40-JTA2-45	JTA2	45	30	4
BT40-JTA2-90	JTA2	90	30	4
BT40-JTA6-45	JTA6	45	30	4
BT40-JTA6-90	JTA6	90	30	4
BT50-JTA1-45	JTA1	45	30	3
BT50-JTA1-105	JTA1	105	30	3
BT50-JTA2S-45	JTA2S	45	30	3
BT50-JTA2S-105	JTA2S	105	30	3
BT50-JTA2-45	JTA2	45	30	4
BT50-JTA2-105	JTA2	105	30	4
BT50-JTA6-45	JTA6	45	30	4
BT50-JTA6-105	JTA6	105	30	4
BT50-JTA3-45	JTA3	45	--	7
BT50-JTA3-105	JTA3	105	35	5

- BT shank with drill chuck holder. Keyless taper mount is sold separately. 鉗夾頭為另購品。

NT30/NT40/NT50 TAPER SHANK



(Unit: mm)

Model NO.	JT.NO.	C	H	Draw Bolt
NT30-JTA1	JTA1	9.754	18	1/2-12"
NT30-JTA2	JTA2	13.94	20	M12x1.75P
NT30-JTA6	JTA6	17.17	26	
NT40-JTA1	JTA1	9.754	18	5/8-11"
NT40-JTA2	JTA2	13.94	20	M16x2.0P
NT40-JTA6	JTA6	17.17	26	
NT50-JTA1	JTA1	9.754	18	1"-8
NT50-JTA2	JTA2	13.94	20	M24x3.0P
NT50-JTA6	JTA6	17.17	26	

- NT shank with drill chuck holder. Keyless taper mount is sold separately.

- When ordering, please specify the draw bolt for inch size or metric size.

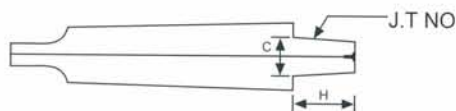
- 鉗夾頭為另購品。

- 請於訂購時確認刀桿為英制或公制。



JTA DRILL CHUCK HOLDER/JTA & KEY TYPE TAPER MOUNT #113

JTA DRILL CHUCK HOLDER- 莫式錐度鉗夾頭刀把 MT2/MT3/MT4/MT5 Morse taper shank

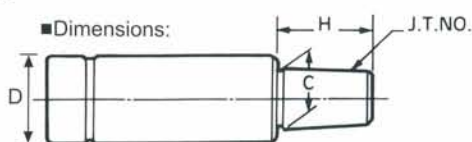


(Unit: mm)

Model NO.	JT.NO	C	H
MT2-JTA6	JTA6	17-7	26
MT3-JTA6	JTA6	17-7	26
MT4-JTA6	JTA6	17-7	26
MT5-JTA6	JTA6	17-7	26

Morse taper shank with drill chuck holder, keyless taper amount is sold separately. 鉗夾頭為另購品。

C20/C25 Straight shank- 直柄鉗夾頭刀把

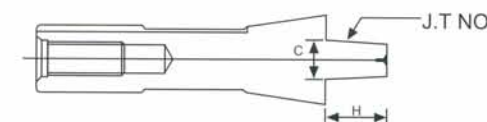


(Unit: mm)

Model NO.	JT.NO.	C	D	H
C20-JTA1	JTA1	9.754	20	18
C20-JTA2	JTA2	13.94	20	20
C20-JTA6	JTA6	17.17	20	26
C25-JTA1	JTA1	9.754	25	18
C25-JTA2	JTA2	13.94	25	20
C25-JTA6	JTA6	17.17	25	26

Straight shank with drill chuck holder, keyless taper amount is sold separately. 鉗夾頭為另購品。

R8 Taper shank- R8鉗夾頭刀把



(Unit: mm)

Model NO.	JT.NO.	C	H
R8-JTA1	JTA1	9.754	18
R8-JTA2	JTA2	13.94	20
R8-JTA6	JTA6	17.17	26

R8 taper shank with drill chuck holder, keyless taper amount is sold separately. 鉗夾頭為另購品。

#113 KEY TYPE TAPER MOUNT- 鉗夾頭



Model No.	Description Code No.	Size	Capacity		Taper Mount No. DIN or Jacobs	Length(m/m)		Outer Dia. (m/m)	Weight (g)	Key Size
			mm	inch		Open	Closed			
6HTP-JT1	11301-1	6HTP	0.3-6.5	1/64-1/4	JT1	50	63	37	250	T2
6HTP-B10	11301-2	6HTP	0.3-6.5	1/64-1/4	B10	50	63	37	250	T2
10HTP-JT2S	11303-1	10HTP	0.3-10	1/64-3/8	JT2S	55	68	45	380	T2-1
10HTP-JT33	11303-2	10HTP	0.3-10	1/64-3/8	JT33	55	68	45	380	T2-1
10HTP-B12	11303-3	10HTP	0.3-10	1/64-3/8	B12	54	68	45	380	T2-1
10HTP-JT1	11303-4	10HTP	0.3-10	1/64-3/8	JT1	54	68	45	380	T2-1
13HTP-JT33	11304-1	13HTP	0.3-13	1/64-1/2	JT33	68.5	84	52	635	T3
13HTP-JT6	11304-2	13HTP	0.3-13	1/64-1/2	JT6	68.5	84	52	635	T3
13HTP-B16	11304-3	13HTP	0.3-13	1/64-1/2	B16	68.5	84	52	635	T3
13HTP-JT2	11304-4	13HTP	0.3-13	1/64-1/2	JT2	68.5	84	52	635	T3
16HTP-JT6	11305-1	16HTP	0.3-16	1/64-5/8	JT6	78	95	55	950	T3
16HTP-JT3	11305-2	16HTP	0.3-16	1/64-5/8	JT3	78	95	55	950	T3
16HTP-B18	11305-3	16HTP	0.3-16	1/64-5/8	B18	78	95	55	950	T3
16HTP-B16	11305-4	16HTP	0.3-16	1/64-5/8	B16	78	95	55	950	T3
19HTP-JT3	11306-1	19HTP	0.3-20	1/64-3/4	JT3	99	120	75	1965	T4
19HTP-JT4	11306-2	19HTP	0.3-20	1/64-3/4	JT4	99	120	75	1965	T4
19HTP-B22	11306-3	19HTP	0.3-20	1/64-3/4	B22	99	120	75	1965	T4

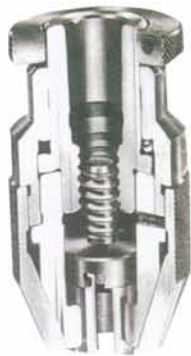
- Heavy duty industrial design with exceptional quality, suitable for high precision machines, like bench, CNC, pedestal drilling machine, milling machine, etc. Totally hardened and ground components ensure high accuracy durability and gripping power. Each key drill chuck enclosed 1PC wrench.

- 附有特別優良品質之工業(工學)設計, 適用於高精密機械, 如: 檯式鑽床、CNC、旋臂鑽床、銑床等, 它完全堅固耐用的組成必能確保高精度, 高耐力且高夾持力之品質。



KEYLESS DRILL MOUNT #122 & #123

#122 Special Heavy Duty Model-鉗夾頭-特重型系列



S Type
Special Heavy duty model #122

Model No.	Description Code No.	Size	Capacity		Taper Mount No. DIN or Jacobs	Length(m/m)		Outer Dia. (m/m)	Weight (g)
			mm	inch		Open	Closed		
3S-JT0	12200-1	3S	0.2-3	1/64-1/8	JT0	44	48.5	24	110
3S-JT1	12200-2	3S	0.3-3	1/64-1/8	JT1	44	48.5	24	110
6S-JT1	12200-3	6S	0.3-6.5	1/64-1/4	JT1	62	68	33	300
6S-B10	12200-5	6S	0.3-6.5	1/64-1/4	B10	62	68	33	300
8S-JT1	12201-1	8S	0.3-8	1/64-5/16	JT1	68	76	38	425
8S-JT2S	12201-2	8S	0.3-8	1/64-5/16	JT2S	68	76	38	425
8S-B10	12201-3	8S	0.3-8	1/64-5/16	B10	68	76	38	425
8S-B12	12201-4	8S	0.3-8	1/64-5/16	B12	68	76	38	425
10S-JT2S	12202-1	10S	0.3-10	1/64-3/8	JT2S	80	92	43	625
10S-JT33	12202-2	10S	0.3-10	1/64-3/8	JT33	80	92	43	625
10S-B10	12202-3	10S	0.3-10	1/64-3/8	B10	80	92	43	625
10S-B12	12202-4	10S	0.3-10	1/64-3/8	B12	80	92	43	625
10S-JT2	12202-5	10S	0.3-10	1/64-3/8	JT2	80	92	43	625
10S-B16	12202-6	10S	0.3-10	1/64-3/8	B16	80	92	43	625
13S-JT2	12203-0	13S	0.3-13	1/64-1/2	JT2	90	102	50	1000
13S-JT33	12203-1	13S	0.3-13	1/64-1/2	JT33	90	102	50	1000
13S-JT6	12203-2	13S	0.3-13	1/64-1/2	JT6	90	102	50	1000
13S-B12	12203-3	13S	0.3-13	1/64-1/2	B12	90	102	50	1000
13S-B16	12203-4	13S	0.3-13	1/64-1/2	B16	90	102	50	1000
16S-JT6	12205-1	16S	3-16	1/8-5/8	JT6	97	110	57	1320
16S-JT3	12205-2	16S	3-16	1/8-5/8	JT3	97	110	57	1320
16S-B16	12205-3	16S	3-16	1/8-5/8	B16	97	110	57	1320
16S-B18	12205-4	16S	3-16	1/8-5/8	B18	97	110	57	1320
16S-JT33	12205-5	16S	3-16	1/8-5/8	JT33	97	110	57	1320

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

#123 Heavy Duty Model-鉗夾頭-重型系列:



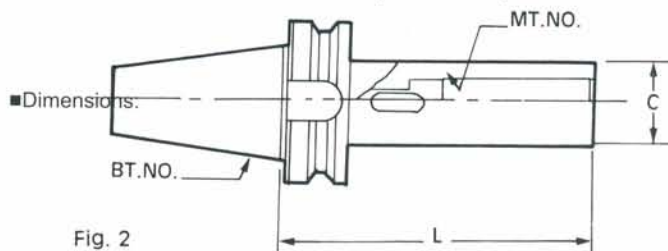
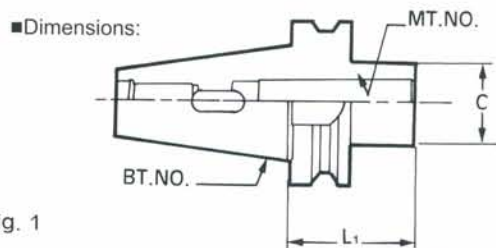
H Type
Heavy duty model #123

Model No.	Description Code No.	Size	Capacity		Taper Mount No. DIN or Jacobs	Length(m/m)		Outer Dia. (m/m)	Weight (g)
			mm	inch		Open	Closed		
6H-JT1	12301-1	6H	0.3-6.5	1/64-1/4	JT1	62	68	33	310
8H-JT1	12302-1	8H	0.3-8	1/64-5/16	JT1	68	76	38	410
8H-JT2S	12302-2	8H	0.3-8	1/64-5/16	JT2S	68	76	38	410
8H-B10	12302-3	8H	0.3-8	1/64-5/16	B10	68	76	38	410
8H-B12	12302-4	8H	0.3-8	1/64-5/16	B12	68	76	38	410
10H-JT2	12303-0	10H	0.3-10	1/64-3/8	JT2	80	92	43	630
10H-JT33	12303-1	10H	0.3-10	1/64-3/8	JT33	80	92	43	630
10H-JT2S	12303-2	10H	0.3-10	1/64-3/8	JT2S	80	92	43	630
10H-B10	12303-3	10H	0.3-10	1/64-3/8	B10	80	92	43	630
10H-B12	12303-4	10H	0.3-10	1/64-3/8	B12	80	92	43	630
13H-JT33	12304-1	13H	0.3-13	1/64-1/2	JT33	90	102	49	940
13H-JT6	12304-2	13H	0.3-13	1/64-1/2	JT6	90	102	49	940
13H-B12	12304-3	13H	0.3-13	1/64-1/2	B12	90	102	49	940
13H-B16	12304-4	13H	0.3-13	1/64-1/2	B16	90	102	49	940
13H-JT2	12304-5	13H	0.3-13	1/64-1/2	JT2	90	102	49	940
16H-JT6	12305-1	16H	3-16	1/8-5/8	JT6	97	110	55	1300
16H-JT3	12305-2	16H	3-16	1/8-5/8	JT3	97	110	55	1300
16H-B16	12305-3	16H	3-16	1/8-5/8	B16	97	110	55	1300
16H-B18	12305-4	16H	3-16	1/8-5/8	B18	97	110	55	1300

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



BT30/BT40/BT50-莫氏斜度刀把A型



(Unit: mm)

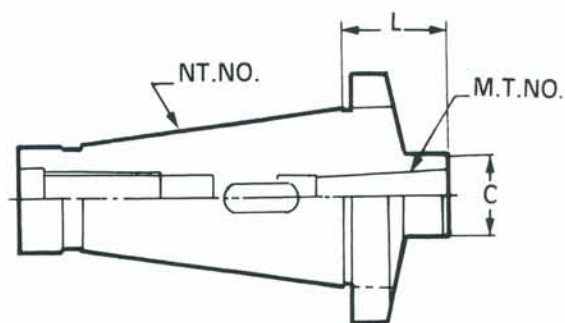
Model No.	Fig	MT.NO.	L	C	Capacity		
					Drill	Reamer	End mill
BT30-MTA1-45	1	1	45	25	ø2•ø14	ø5•ø14	ø10•ø14
BT30-MTA1-120	2	1	120	25	ø2•ø14	ø5•ø14	ø10•ø14
BT30-MTA1-180	2	1	180	25	ø2•ø14	ø5•ø14	ø10•ø14
BT30-MTA2-60	1	2	60	32	ø14•ø23	ø14.5•ø23	ø16•ø22
BT30-MTA2-120	2	2	120	32	ø14•ø23	ø14.5•ø23	ø16•ø22
BT30-MTA2-180	2	2	180	32	ø14•ø23	ø14.5•ø23	ø16•ø22
BT30-MTA3-90	1	3	90	40	ø23•ø32	ø24•ø32	ø24•ø32
BT30-MTA3-135	2	3	135	40	ø23•ø32	ø24•ø32	ø24•ø32
BT40-MTA1-45	1	1	45	25	ø2•ø14	ø5•ø14	ø10•ø14
BT40-MTA1-120	2	1	120	25	ø2•ø14	ø5•ø14	ø10•ø14
BT40-MTA1-180	2	1	180	25	ø2•ø14	ø5•ø14	ø10•ø14
BT40-MTA2-45	1	2	45	32	ø14•ø23	ø14.5•ø23	ø16•ø22
BT40-MTA2-120	2	2	120	32	ø14•ø23	ø14.5•ø23	ø16•ø22
BT40-MTA2-180	2	2	180	32	ø14•ø23	ø14.5•ø23	ø16•ø22
BT40-MTA3-75	1	3	75	40	ø23•ø32	ø24•ø32	ø24•ø32
BT40-MTA3-135	2	3	135	40	ø23•ø32	ø24•ø32	ø24•ø32
BT40-MTA3-180	2	3	180	40	ø23•ø32	ø24•ø32	ø24•ø32
BT40-MTA4-90	1	4	90	50	ø32•ø50	ø32•ø50	ø35•ø50
BT40-MTA4-165	2	4	165	50	ø32•ø50	ø32•ø50	ø35•ø50
BT50-MTA1-45	1	1	45	25	ø2•ø14	ø5•ø14	ø10•ø14
BT50-MTA1-120	2	1	120	25	ø2•ø14	ø5•ø14	ø10•ø14
BT50-MTA1-180	2	1	180	25	ø2•ø14	ø5•ø14	ø10•ø14
BT50-MTA2-45	1	2	45	32	ø14•ø23	ø14.5•ø23	ø16•ø22
BT50-MTA2-135	2	2	135	32	ø14•ø23	ø14.5•ø23	ø16•ø22
BT50-MTA2-180	2	2	180	32	ø14•ø23	ø14.5•ø23	ø16•ø22
BT50-MTA3-45	1	3	45	40	ø23•ø32	ø24•ø32	ø24•ø32
BT50-MTA3-150	2	3	150	40	ø23•ø32	ø24•ø32	ø24•ø32
BT50-MTA3-180	2	3	180	40	ø23•ø32	ø24•ø32	ø24•ø32
BT50-MTA4-75	1	4	75	50	ø32•ø50	ø32•ø50	ø35•ø50
BT50-MTA4-180	2	4	180	50	ø32•ø50	ø32•ø50	ø35•ø50
BT50-MTA5-105	1	5	105	65	ø50•ø75	ø50	ø40•ø75
BT50-MTA5-210	2	5	210	65	ø50•ø75	ø50	ø40•ø75

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



MTA MORSE TAPER HOLDER

NT30/NT40/NT50-莫氏斜度刀把A型

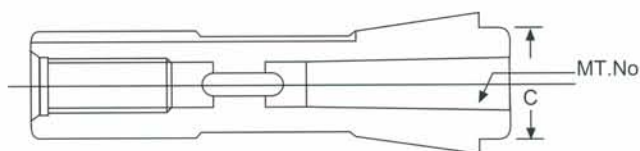


(Unit: mm)

Model No.	MT.NO.	L	C	Draw Bolt
NT30-MTA1-45	MTA1	45	25	1/2"-12 M12X1.0P
NT30-MTA2-50	MTA2	50	32	
NT30-MTA3-65	MTA3	65	40	
NT40-MTA1-30	MTA1	30	25	5/8"-11 M16X2.0P
NT40-MTA2-40	MTA2	40	32	
NT40-MTA3-70	MTA3	70	40	
NT40-MTA4-90	MTA4	90	50	
NT50-MTA2-30	MTA2	30	32	1"-8 M24X3.0P
NT50-MTA3-30	MTA3	30	40	
NT50-MTA4-70	MTA4	70	50	
NT50-MTA5-105	MTA5	105	65	

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

R8 TAPER SHANK



(Unit: mm)

Model No.	MT.NO.	L	C
R8-MTA1-20	MTA1	20	25
R8-MTA2-30	MTA2	30	32
R8-MTA3-50	MTA3	50	40

- R8 tool holder for morse taper shank with internal tang.



MTA MORSE TAPER SLEEVE & EXTENSION

MT3/MT4/MT5 MORSE TAPER SLEEVE-莫氏鑽頭套筒



Model No.	O-Outside	I-Inside
MTA3-MTA1	MTA3	MTA1
MTA3-MTA2	MTA3	MTA2
MTA4-MTA1	MTA4	MTA1
MTA4-MTA2	MTA4	MTA2
MTA4-MTA3	MTA4	MTA3
MTA5-MTA1	MTA5	MTA1
MTA5-MTA2	MTA5	MTA2
MTA5-MTA3	MTA5	MTA3
MTA5-MTA4	MTA5	MTA4

- Morse taper sleeves are used to convert morse taper shank tools.

MT3/MT4/MT5 MORSE TAPER EXTENSION-莫氏延長鑽頭套筒

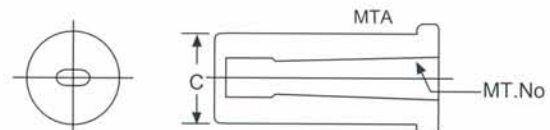


Model No.	MT No.	MT#	C	L
MT3-MT1-L	MT3	MT1	25	100, 150
MT3-MT2-L		MT2	32	100, 150
MT3-MT3-L		MT3	40	100, 150, 200
MT4-MT2-L	MT4	MT2	25	100 150 200
MT4-MT3-L		MT3	32	120, 170, 220
MT4-MT4-L		MT4	40	150, 200, 250
MT5-MT2-L	MT5	MT2	25	100, 150, 200
MT5-MT3-L		MT3	32	120, 150, 200
MT5-MT4-L		MT4	50	150, 200, 250
MT5-MT5-L		MT5	65	180, 200, 250, 300

Note: Please advise length (L) when ordering.- 訂購時，請確認L的長度。

-Morse taper extensions are designed to covert morse taper shanks tools and also be used to extend the lenght of taper shank tools.

STRAIGHT SHANK MORSE TAPER SLEEVE- 直柄莫氏斜度套筒



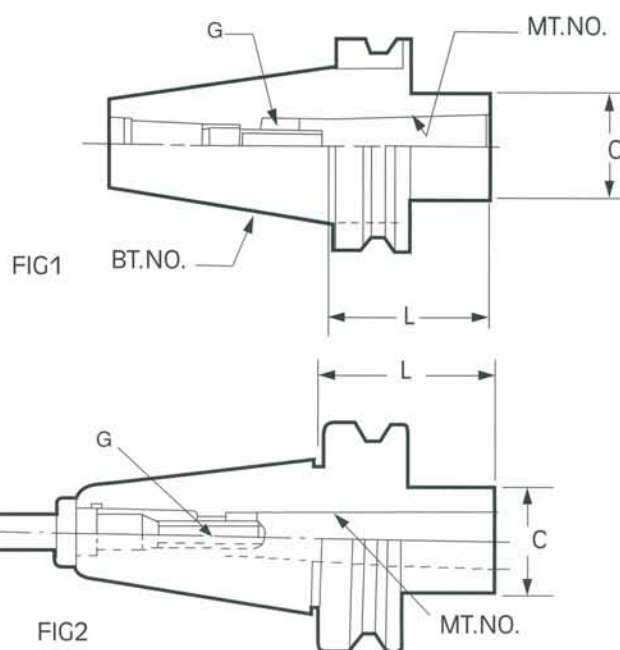
C	Model No.
ø25	C25-MT1,MT2
ø32	C32-MT1,MT2,MT3
ø42	C42-MT1,MT2,MT3,MT4

- Straight shank for morse taper sleeves.



MTB MORSE TAPER HOLDER

BT30/BT40/BT50-莫氏斜度刀把B型



(Unit: mm)

Model No.	MT. NO.	L	C	G	FIG.	Capacity		
						Drill	Reamer	End mill
BT30-MTB1-45	1	45	25	M6	1	ø2-ø14	ø5-ø14	ø10-ø14
BT30-MTB2-60	2	60	32	M10	1	ø14-ø23	ø14.5-ø23	ø16-ø22
BT40-MTB1-45	1	45	25	M6	1	ø2-ø14	ø5-ø14	ø10-ø14
BT40-MTB2-45	1	45	32	M10	1	ø14-ø23	ø14.5-ø23	ø16-ø22
BT40-MTB3-75	3	75	40	M12	1	ø23-ø32	ø24-ø32	ø24-ø32
BT40-MTB4-75	4	75	48	M16	2	ø32-ø50	ø32-ø50	ø35-ø50
BT50-MTB1-45	1	45	25	M6	1	ø2-ø14	ø5-ø14	ø10-ø14
BT50-MTB2-45	2	45	32	M10	1	ø14-ø23	ø14.5-ø23	ø16-ø22
BT50-MTB3-60	3	60	40	M12	1	ø23-ø32	ø24-ø32	ø24-ø32
BT50-MTB4-75	4	75	50	M16	1	ø32-ø50	ø32-ø50	ø35-ø50
BT50-MTB5-120	5	120	70	M20	2	ø50-ø75	ø50	ø40-ø75

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

MTB PULL STUD-MTB長拉頭



(Unit: mm)

Model No.	MT.NO.	G	DEG
MTB4 (M16)	MT4	M16X2.0P	30/45/60/90
MTB5 (M20)	MT5	M20X2.5P	

- NOTE:MTB-FIG2 type should be fitted for extension pull stud. The extension pull stud is optional.

- MTB-Fig2刀桿應使用MTB長拉頭，MTB長拉頭為另購品。

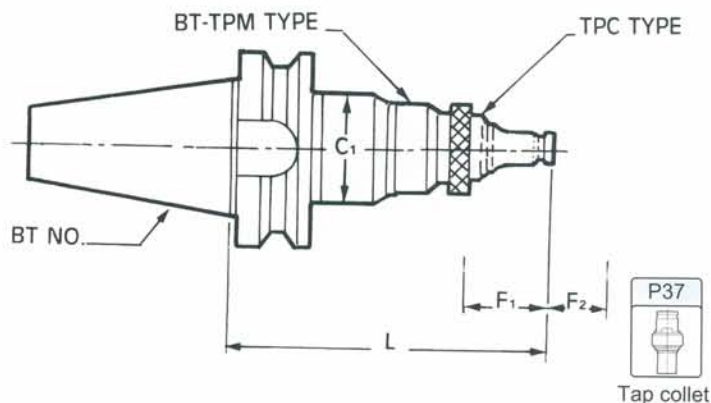


TPM TAP HOLDER-TENSION & COMPRESSION TAPER HOLDER

BT30/BT40/BT50-扭力伸縮攻牙本體

Holder for tension & compression

■Dimensions:



(Unit: mm)

Model No.	C1	F1	F2	L	Tapping range	Adapter type
BT30-TPM316	48	10	20	150	M3-M16	TPC316
BT40-TPM316	48	10	20	150	M3-M16	TPC316
BT50-TPM316	48	10	20	150	M3-M16	TPC316
BT30-TPM 830	66	10	25	195	M8-M30	TPC830
BT40-TPM830	66	10	25	195	M8-M30	TPC830
BT50-TPM830	66	10	25(80)	195	M8-M30	TPC830

Note: F1: Compression, F2: Tension

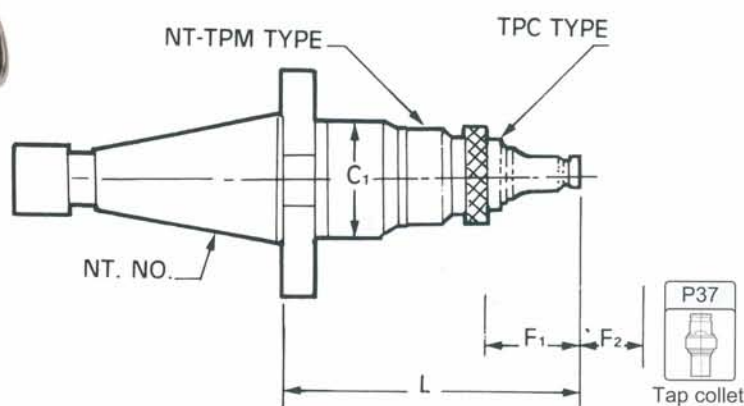
-BT shank with taper tool holder.

-QUICK CHANGE: push back on the holder sleeve, and the tap collet is removable easily.

NT30/NT40/NT50-扭力伸縮攻牙本體

Holder for tension & compression

■Dimensions:



(Unit: mm)

Model NO.	C1	F1	F2	L	Tapping range	Adapter type	Draw Bolt
NT30-TPM316	48	10	20	130	M3-M16	TPC316	1/2-12", M12x1.5P
NT40-TPM316	48	10	20	130	M3-M16	TPC316	5/8-11, M16x2.0P
NT50-TPM316	48	10	20	130	M3-M16	TPC316	1"-8, M24x3.0P
NT30-TPM830	66	10	25	160	M8-M30	TPC830	1/2-12", M12x1.5P
NT40-TPM830	66	10	25	160	M8-M30	TPC830	5/8-11, M16x2.0P
NT50-TPG 830	66	10	100	180	M8-M30	TPC830	1"-8, M24x3.0P

Note: F1: Compression, F2: Tension

-QUICK CHANGE: push back on the holder sleeve, and the tap collet is removable easily.

-NT shank with taper tool holder. When ordering, please specify the draw bolt for inch size or metric size.

訂於訂購時，確認認刀桿為英制或公制。

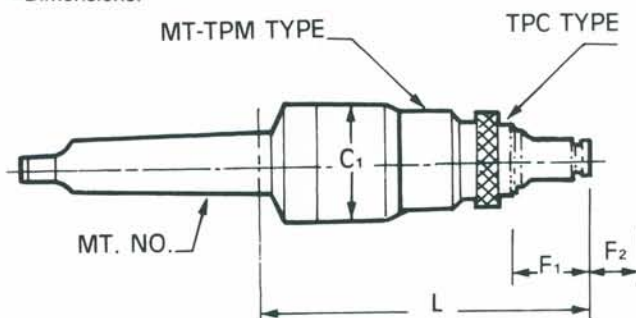


TPM TAP HOLDER-TENSION & COMPRESSION TAPER HOLDER

MT3/MT4/MT5-扭力伸縮攻牙本體



■Dimensions:



(Unit: mm)

Model No.	C1	F1	F2	L	Tapping range	Tap collet
MT2-TPM316	48	10	20	130	M3-M16	TPC316
MT3-TPM316	48	10	20	130	M3-M16	TPC316
MT4-TPM316	48	10	20	130	M3-M16	TPC316
MT5-TPM316	48	10	20	130	M3-M16	TPC316
MT3-TPM830	66	10	25	180	M8-M30	TPC830
MT4-TPM830	66	10	25	180	M8-M30	TPC830
MT5-TPM830	66	10	25	180	M8-M30	TPC830

Note: F1: Compression, F2: Tension

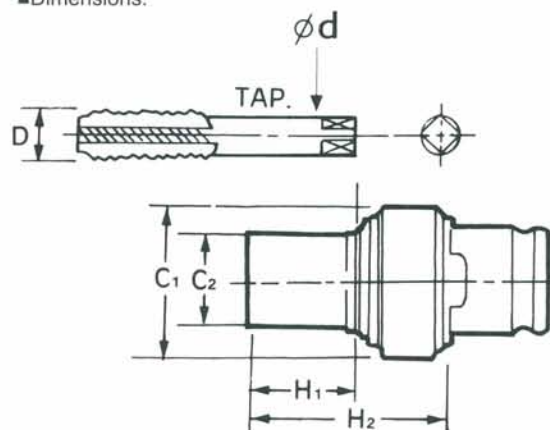
-QUICK CHANGE: Push back on the holder sleeve, and tap collet is removable easily.

-Morse taper shank with taper tool holder.

TAP COLLET/ TPC316 & TPC830-扭力絲攻筒夾



■Dimensions:



(Unit: mm)

Model No	Tap Diameter (D)	H1	H2	C1	C2	Master Holder type
TPC316	M3, M4, M5, M6, M8, M10, M12, M14, M16	27	47	33	20	TPM316
TPC316	W1/4, W1/8, W3/8, W3/16, W5/16, W7/16	27	47	33	20	TPM316
TPC316	W1/2, W5/8, PT1/8, PT1/4	27	47	33	25	TPM316
TPC830	M8, M10, M12, M14, M16, W5/16, W3/4, W7/16, W1/2, W5/8"	43	62	51	30	TPM830
TPC830	M18, M20, M22, M24, M27, M30, W3/4, W7/8, W1, PT1/8, PT3/8, PT1/4, PT1/2, PT5/8, PT3/4	43	62	51	36	TPM830

-Tap diameters which are not shown in the above, please advice shank diameter (d) and square size (SQ) when ordering. For more detail info about shank diameter (d) and square size (SQ), refer to P.38

-TPC tap collet have extended length to choice .

-請於訂購時確認絲攻筒夾的柄徑(d)和四角孔(SQ).關於更多詳細資料。請看P.38

-TPC絲攻筒夾有加長型規格可供選擇。



TPC316/TPC830 TAP COLLET

TPC316-絲攻筒夾規格表

JIS	Ød		ISO	Ød		DIN371	Ød		DIN376	Ød	
TPC316 M03 W1/8	4	3.2	TPC316 M03	3.15	2.5	TPC316 M03	3.5	2.7	TPC316 M03	2.2	--
TPC316 M04	5	4	TPC316 M04	4	3.15	TPC316 M04	4.5	3.4	TPC316 M04	2.8	2.1
TPC316 M05 W3/16	5.5	4.5	TPC316 M05	5	4	TPC316 M05	6	4.9	TPC316 M05	3.5	2.7
TPC316 M06 W1/4	6	4.5	TPC316 M06	6.3	5	TPC316 M06	6	4.9	TPC316 M06	4.5	3.4
TPC316 M08	6.2	5	TPC316 M08	8	6.3	TPC316 M08	8	6.2	TPC316 M08	6	4.9
TPC316 M10 W3/8	7	5.5	TPC316 M10	10	8	TPC316 M10	10	8	TPC316 M10	7	5.5
TPC316 M12	8.5	6.5	TPC316 M12	9	7.1				TPC316 M12	9	7
TPC316 M14	10.5	8	TPC316 M14	11.2	9				TPC316 M14	11	9
TPC316 M16	12.5	10	TPC316 M16	12.5	10				TPC316 M16	12	9
TPC316 W5/16	6.1	5									
TPC316 W7/16 PT1/8	8	6									
TPC316 W1/2	9	7									
TPC316 W5/8	12	9									
TPC316 PT1/4	11	9									

TPC830-絲攻筒夾規格表

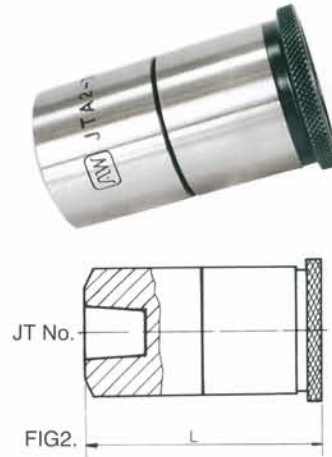
JIS	Ød		ISO	Ød		DIN371	Ød		DIN376	Ød	
TPC830 M08	6.2	5	TPC830 M08	8	6.3	TPC830 M08	8	6.2	TPC830 M08	6	4.9
TPC830 M10 W3/8	7	5.5	TPC830 M10	10	8	TPC830 M10	10	8	TPC830 M10	7	5.5
TPC830 M12	8.5	6.5	TPC830 M12	9	7.1				TPC830 M12	9	7
TPC830 M14	10.5	8	TPC830 M14	11.2	9				TPC830 M14	11	9
TPC830 M16	12.5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



TP TAP HOLDER

C20/JT2/JT6-簡式攻牙本體

Quick- change, without floating



Tap collet

(Unit: mm)

Model NO.	L	Tapping range	Adapter type	Fig
C20-TP316	50	M3-M16	TPC316	1
JT2-TP316	75	M3-M16	TPC316	2
JT6-TP316	75	M3-M16	TPC316	2

- QUICK-CHANGE WITHOUT FLOATING.

- TP tap holder can be used to connect with end mill holder, straight holder and JT drill chuck holder. It's the simple TAP HOLDER without floating and also use TPC316 tap collets.

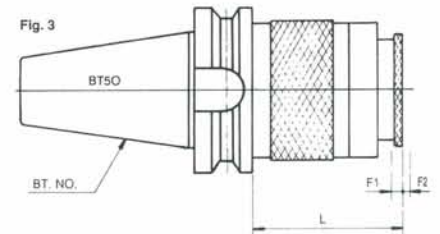
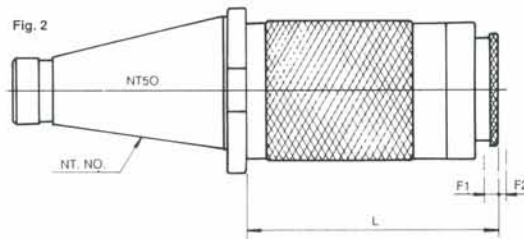
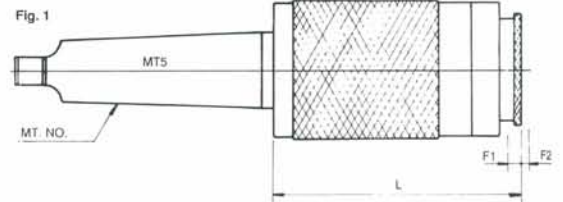
TPG TAP HOLDER-TENSION & COMPRESSION TAP HOLDER

BT50/BT50/MT5-伸縮攻牙本體

Holder for tension & compression



■Dimensions:



(Unit: mm)

Model No.	L	F1	F2	Tapping range	Adapter type	Fig
MT5-TPG875	140	15	80	M8-M30	TPC 830	1
		15	80	M32-M75	TPC 875	
NT50-TPG875	140	10	80	M8-M30	TPC 830	2
		10	80	M32-M75	TPC 875	
BT50-TPG875	105	15	80	M8-M30	TPC 830	3
		15	80	M35-M75	TPC 875	

- Holders for tension & compression. Tapping range is from M8-M75, M8-M30 that must use TPCC875 ADAPTER to switch TPC830 tap collets.

- Tapping range: M32-M75-use TPC875 tap collets.

- Tapping range: M08-M30-use TPC830 tap collets. (refer to P.37)

- TPG875伸縮攻牙本體 - 攻牙範圍為：M8-M75。M8-M30需先用TPCC875轉換器作轉換並搭配TPC875絲攻筒夾。

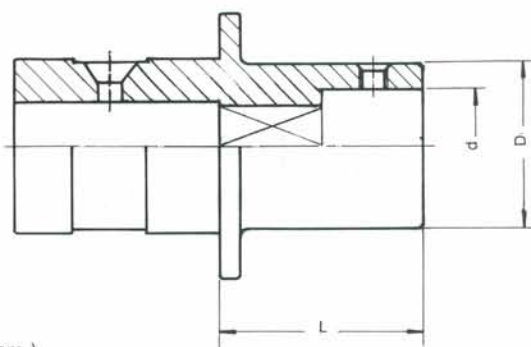
- 攻牙範圍為M32-M75:使用TPC875絲攻筒夾。

- 攻牙範圍為M08-M30:使用TPC830絲攻筒夾。(請參考P.37)



TPG TAP COLLET, ADAPTER

TAP COLLET/TPG875-攻牙筒夾



(Unit: mm)

Tap Holder	D	L
M32~M50	d+16 L	50
PT1"~PT 1 1/2"	d+16 L	50
M52~M75	d+16 L	70
PT1 1/4"~PT 2 1/2"	d+16 L	70

-TPCC 875 ADAPTER : MASTER HOLDER TPG 875

-Tap diameters which are not shown in the above, please advice shank diameter (D) and square size (SQ) when ordering.

TPCC875 ADAPTER- 轉換器

TPCC875-TPM830



-TPCC 875 ADAPTER : MASTER HOLDER TPG 875

-The TPCC875 adapter to switch TPG875 holder be suit for TPC830 TAP COLLETS.

-TPCC875轉換器：用於TPG 875本體作轉換後可夾持TPC830攻牙筒夾。

VERTICAL AIR TAPPING MACHINE- 萬向氣動攻牙機



Model No.	AT-12 / II
For Tap / 攻牙能力	M3~M12
Speed (rpm) / 主軸轉速	400
Work Range / 工作範圍	Rmax1900mm Rmin 200 mm
Weight (kg) / 重量	20kg

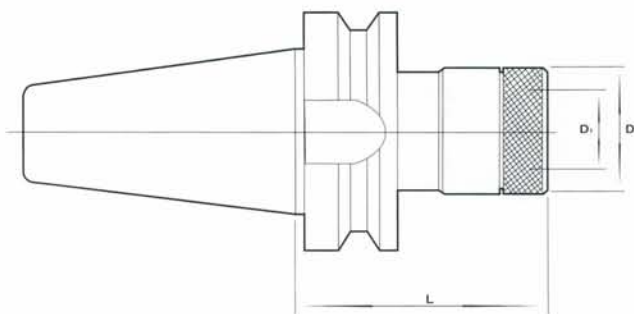
STANDARD ACCESSORIES /

- Air tapping spindle 氣動攻牙機主軸
- Parallel arm 伸長臂
- Table mounting column 固定座
- Air unit 三點組合
- Choose any six safety clutch tapping adapters 絲攻安全扭力筒夾，任選六種
- Radial jib, increases arm reach by 500mm 搖臂，可增強臂力至500mm



ART RIGID TAP HOLDER

BT30/BT40/BT50-剛性攻牙本體

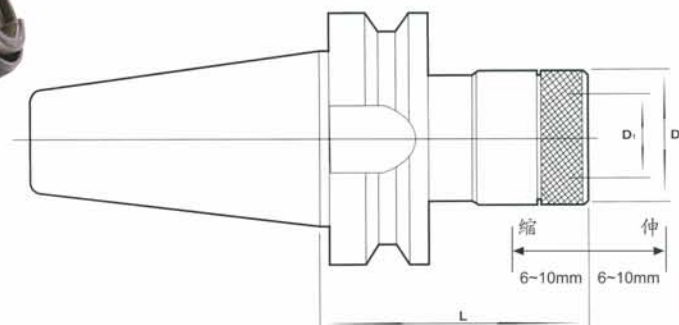


Model No.	D1	D2	L	Tapping Range	Adapte
BT30-ART312	19	36	60	M3-M12	ATC312
BT40-ART312	19	36	72	M3-M12	ATC312
BT50-ART312	19	36	82	M3-M12	ATC312
BT40-ART822	31	53	91	M8-M22	ATC822
BT50-ART822	31	53	101	M8-M22	ATC822

-Tap collets could be changed quickly. Torque control type and positive drive type tap collets can be used for ART TOOL HOLDER.
 -ART刀桿為剛性攻牙本體，不具伸縮功能。扭力絲攻筒夾及剛性絲攻筒夾都可用於ART刀桿。

ATP TENSION & COMPRESSION TAP HOLDER

BT30/BT40/BT50- 伸縮攻牙本體



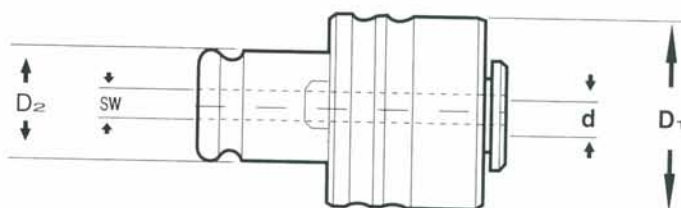
Model No.	D1	D2	L	Tapping Range	Adapte
BT30-ATP312	19	36	61	M3-M12	ATC312
BT40-ATP312	19	36	66	M3-M12	ATC312
BT50-ATP312	19	36	76	M3-M12	ATC312
BT40-ATP822	31	53	93	M8-M22	ATC822
BT50-ATP822	31	53	103	M8-M22	ATC822

-ATP tool holder are for TENSION & COMPRESSION. Torque control type and positive drive type tap collets can be used for ATP TOOL HOLDER.
 -ATP刀桿為伸縮攻牙本體，具有伸縮功能並能延長絲攻使用壽命。扭力絲攻筒夾及剛性絲攻筒夾都可用於ATP刀桿。

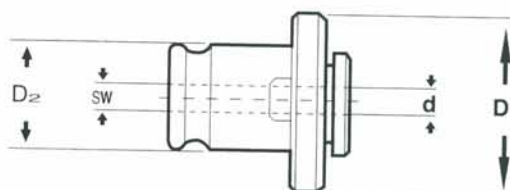


ATC312 TAP COLLET

TORQUE CONTROL TYPE-扭力絲攻筒夾-FIG.1



POSITIVE DRIVE TYPE-剛性絲攻筒夾-FIG.2



Model No.	Tap Diameter (D)	D1	D2
ATC312-D	M3, M4, M5, M6, M8, M10, M12	32	19
ATC312-D	W1/8", W3/16", W1/4", W5/16", W3/8", W7/16"	30	19

-When ordering, please specify the tap collet for TORQUE CONTROL TYPE (FIG.1) or POSITIVE DRIVE TYPE (FIG.2)

-Please also check the SHANK DIAMETER (d) and SQUARE SIZE (SQ)

-請於訂購時確認筒夾為扭力絲攻筒夾(FIG.1)或剛性絲攻筒夾(FIG.2)

以及絲攻筒夾的柄徑(d)和四角孔(SQ)

ATC312 - M3 - JIS

Tap Type (絲攻種類)

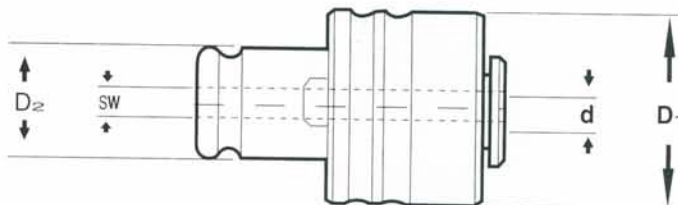
Tap Diameter-D (絲攻尺寸)

Tap Name (筒夾名稱)

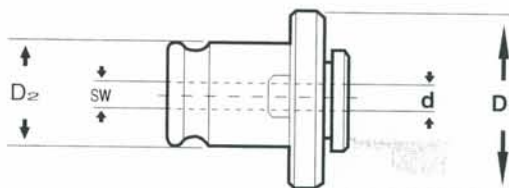
JIS	Ød	□	ISO	Ød	□	DIN371	Ød	□	DIN376	Ød	□
ATC312 M03 W1/8	4	3.2	ATC312 M03	3.15	2.5	ATC312 M03	3.5	2.7	ATC312 M03	2.2	--
ATC312 M04	5	4	ATC312 M04	4	3.15	ATC312 M04	4.5	3.4	ATC312 M04	2.8	2.1
ATC312 M05 W3/16	5.5	4.5	ATC312 M05	5	4	ATC312 M05 M06	6	4.9	ATC312 M05	3.5	2.7
ATC312 M06 W1/4	6	4.5	ATC312 M06	6.5	5	ATC312 M08	8	6.2	ATC312 M06	4.5	3.4
ATC312 M08	6.2	5	ATC312 M08	8	6.3	ATC312 M10	10	8	ATC312 M08	6	4.9
ATC312 M10 W3/8	7	5.5	ATC312 M10	10	8				ATC312 M10	7	5.5
ATC312 M12	8.5	6.5	ATC312 M12	9	7.1				ATC312 M12	9	7
ATC312 W7/16 PT1/8	8	6									
ATC312 W1/2	9	7									
ATC312 W5/16	6.1	5									

ATC822 TAP COLLET

TORQUE CONTROL TYPE-扭力絲攻筒夾-FIG.1



POSITIVE DRIVE TYPE-剛性絲攻筒夾-FIG.2



Model No.	Tap Diameter (D)	D1	D2
ATC822-D	M8, M10, M12, M14, M16, M18, M20, M22	50	31
ATC822-D	W7/16", W1/2", W5/8", W3/4", W7/8", PT1/8", PT1/4", PT3/8"	48	31

-When ordering, please specify the tap collet with TORQUE CONTROL TYPE (FIG.1) or POSITIVE DRIVE TYPE (FIG.2)

-Please also check the SHANK DIAMETER (d) and SQUARE SIZE (SQ)

-請於訂購時確認筒夾為扭力絲攻筒夾(FIG.1)或剛性絲攻筒夾(FIG.2)

以及絲攻筒夾的柄徑(d)和四角孔(SQ)

ATC822 - M8 - JIS

Tap Type (絲攻種類)

Tap Diameter-D (絲攻尺寸)

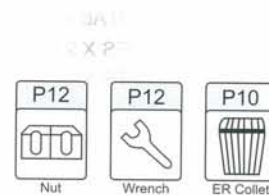
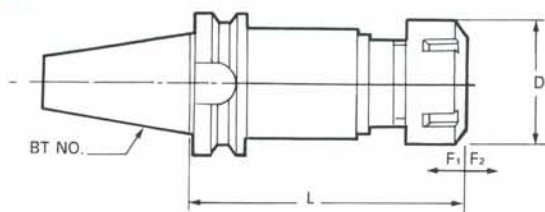
Tap Name (筒夾名稱)

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



TER TAP HOLDER-TENSION & COMPRESSION TAP HOLDER

BT30/BT40/BT50 伸縮攻牙本體



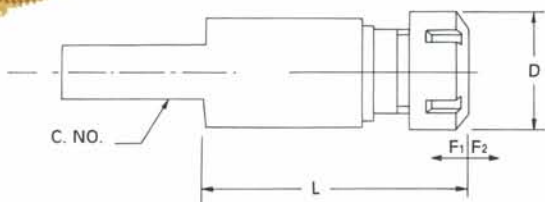
(Unit: mm)

Model No.	Tapping Range	D	L	F1	F2	Collet type
BT30-TER16	M3-M12	28	77	8	8	ER16
BT30-TER20	M4-M16	34	86	8	8	ER20
BT40-TER16	M3-M12	28	77	8	8	ER16
BT40-TER20	M4-M16	34	86	8	8	ER20
BT40-TER25	M5-M20	42	90	8	8	ER25
BT40-TER32	M8-M27	50	94	8	8	ER32
BT40-TER40	M12-M35	63	98	8	8	ER40
BT50-TER16	M3-M12	28	80	8	8	ER16
BT50-TER20	M4-M16	34	99	8	8	ER20
BT50-TER25	M5-M20	42	97	8	8	ER25
BT50-TER32	M8-M27	50	95	8	8	ER32
BT50-TER40	M12-M35	63	117	8	8	ER40

-Tension & compression TER TAP HOLDER. TER tap holder use the ER SPRING COLLET and easy to get. Wrench not included. Nut not over tightening to avoid damage the body and nut.

-TER伸縮攻牙本體。使用時，螺帽請勿過度鎖緊以免造成螺蓋及本體損壞。ER板手為另購品。

C20/C25/C32/C40-Straight shank- 直柄伸縮攻牙本體



(Unit: mm)

Mode No.	Tapping Range	D	L	F1	F2	Collet type
C20-TER16	M3-M12	28	75	5	12	ER16
C20-TER20	M4-M16	34	80	5	12	ER20
C20-TER25	M5-M20	42	80	5	12	ER25
C25-TER16	M3-M12	28	75	5	12	ER16
C25-TER20	M4-M16	34	80	5	12	ER20
C25-TER25	M5-M20	42	80	5	12	ER25
C25-TER32	M8-M27	50	80	5	8	ER32
C32-TER16	M3-M12	28	75	5	12	ER16
C32-TER20	M4-M16	34	80	5	12	ER20
C32-TER25	M5-M20	42	80	5	12	ER25
C32-TER32	M8-M27	50	80	5	8	ER32
C40-TER16	M3-M12	28	75	5	12	ER16
C40-TER20	M4-M16	34	80	5	12	ER20
C40-TER25	M5-M20	42	80	5	12	ER25
C40-TER32	M8-M27	50	80	5	8	ER32

-Tension & compression TER TAP HOLDER with straight shank. TER tap holder use the ER SPRING COLLET and easy to get.

-Wrench not included. Nut not over tightening to avoid damage the body and nut.

-FLAT SHANK for your optional. When ordering please specify "FLAT"

-直柄TER伸縮攻牙本體。使用時，螺帽請勿過度鎖緊以免造成螺蓋及本體損壞。ER板手為另購品。

-另有直柄削平面可供選購。請於購買時，註明"削平面"



DT24/DT33 DRILL TAPER SET

DT24/DT33-旋臂鑽床攻牙組

DT24/DT33 SET OF DRILL TAPPER CONSISTS:

- 1.TAPPER HOLDER (BODY) X 1 PC
- 2.DT24/DT33 JTA6 + 1/2 keyless drill chuck
- 3.TAP SLEEVES X 2 PCS
- 4.TAP COLLETS X 6 PCS
- 5.ADJUSTING WRENCH X 1 PC

DT24/DT33 旋臂鑽床攻牙組:

- 1.旋臂攻牙本體 X 1 PC
- 2.DT24/33+JTA6+1/2普通鑽夾頭 X 1 SET
- 3.DT24/33 絲攻套筒 X 2 PCS
- 4.DT24/33 絲攻筒夾 X 6 PCS
- 5.L型調整扳手 X 1 PC



Model No.	Tapper Holder	Tap Collet	Sleeve
DT24 MTA □-9PCS/SET	DT24-MT2 Holder	M4,M5,M6,M8,M10,M12,M14,M16,M18,M20,M22,M24	DT24-MT1
	DT24-MT3 Holder	W3/16, W1/4, W5/16, W3/8,W7/16, W1/2, W5/8, W3/4, W7/8, W1"	DT24-MT2
	DT24-MT4 Holder	PT1/ 8, PT1/4,PT3/8, PT1/2	DT24-MT3
	DT24-MT5 Holder		
DT33 MTA □-9PCS/SET	DT33-MT3 Holder	M8,M10,M12,M14,M16, M18,M20,M22,M24,M27, M30,M33,M36	DT33-MT1
	DT33-MT4 Holder	W5/16,W3/8, W7/16, W1/2, W5/8, W3/4, W7/8, W1" , W1-1/8, W1-1/4,	DT33-MT2
	DT33-MT5 Holder	PT1/8,PT1/4,PT3/8,PT1/2,PT3/4,PT1"	DT33-MT3
			DT33-MT4

STANDARD SET標準組

Model No.	Standard Size
DT24 MTA □-9PCS/SET	DT24 MTA □ HOLDER, JTA6+1/2, DT24-M6,M8,M10,M12, M16, DT24-MT1,DT24-MT2
DT33 MTA □-9PCS/SET	DT33 MTA □ HOLDER, JTA6+1/2, DT33-M8,M10,M12, M16, M20,DT33-MT2,DT33-MT3
DT33 MTA □-10PCS/SET	DT33 MTA □ HOLDER, JTA6+1/2, DT33-M8,M10,M12, M16, M20,M24,DT33-MT2,DT33-MT3

-DT24/DT33 TAPER HOLDER be sold with standard full set or you can choice buy each size separately.

-According to the tapped material, the drill taper holder could be adjusted the torque with HIGH or LOW.

-DT24/DT33 攻牙組可整組購買也可以依照你的需求分別購買。

-DT24/DT33 攻牙組使用簡單、方便、快速。

-DT24/DT33 本體有調整扭力功能。並可依照攻牙需求做扭力強(H)和弱(L)之調整操作。



DT24/DT33 TAP SIZE SPECIFICATION

DT24 TAP SIZE SPECIFICATION-絲攻筒夾規格表

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

DT33 TAP SIZE SPECIFICATION-絲攻筒夾規格表

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 DRILL TAPER SET

DT52-旋臂鑽床攻牙系列



Model No.	Tap Collet	Sleeve
DT52-MTA5 Holder	M20,M22, M24,M27,M30,M33,M36, M39,M42, M45,M48,M52 W7/8, W1" , W1-1/8, W1-1/4, W1-3/8, W1-1/2, W1-5/8, W1-3/4, W1-7/8, W2"	DT52-MT2 DT52-MT3 DT52-MT4 DT52-MT5

-DT52 TAPER HOLDER NOT be sold with full set.

-According to the tapped material, the drill taper holder could be adjusted the torque with HIGH or LOW.

-DT52 攻牙系列可以依照你的需求分別購買。

-DT52 攻牙刀桿使用簡單、方便、快速。

-DT52 本體有調整扭力功能。並可依照攻牙需求做扭力強(H)和弱(L)之調整操作。

DT52 TAP SIZE SPECIFICATION-絲攻筒夾規格表

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						



BT30/BT40/BT50-平面銑刀把



Fig. 1

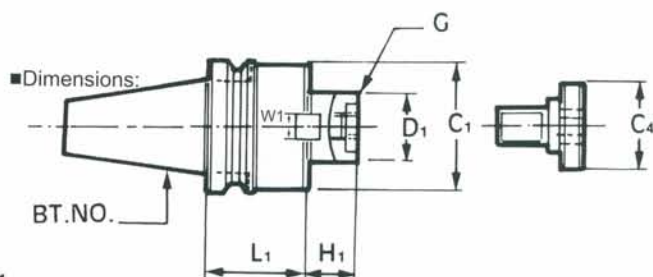
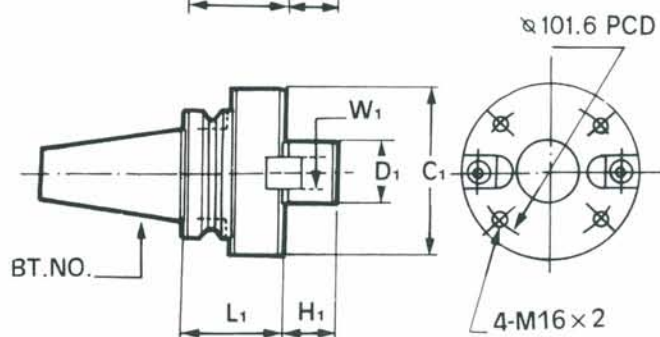


Fig. 2



(Unit: mm)

Model No.	Fig.	D1	L1	H1	G	C1	W1	C4	Cutter dia.
BT30-FMA25.4-45	1	25.4	45	20	M12	45	9.5	33	76
BT30-FMA25.4-60	1	25.4	60	20	M12	45	9.5	33	76
BT40-FMA25.4-45	1	25.4	45	20	M12	60	9.5	33	76
BT40-FMA25.4-60	1	25.4	60	20	M12	60	9.5	33	76
BT40-FMA25.4-105	1	25.4	105	20	M12	60	9.5	33	76
BT40-FMA31.75-45	1	31.75	45	22	M12	70	12.7	40	102
BT40-FMA31.75-60	1	31.75	60	22	M12	70	12.7	40	102
BT40-FMA31.75-90	1	31.75	90	22	M12	70	12.7	40	102
BT40-FMA38.1-60	1	38.1	60	23	M16	85	15.9	50	127
BT40-FMA38.1-90	1	38.1	90	23	M16	85	15.9	50	127
BT50-FMA25.4-45	1	25.4	45	20	M12	60	9.5	33	76 (80)
BT50-FMA25.4-75	1	25.4	75	20	M12	60	9.5	33	76 (80)
BT50-FMA25.4-105	1	25.4	105	20	M12	60	9.5	33	76 (80)
BT50-FMA25.4-125	1	25.4	125	20	M12	60	9.5	33	76 (80)
BT50-FMA25.4-150	1	25.4	150	20	M12	60	9.5	33	76 (80)
BT50-FMA25.4-200	1	25.4	200	20	M12	60	9.5	33	76 (80)
BT50-FMA31.75-45	1	31.75	45	22	M12	70	12.7	40	100 (102)
BT50-FMA31.75-75	1	31.75	75	22	M12	70	12.7	40	100 (102)
BT50-FMA31.75-105	1	31.75	105	22	M12	70	12.7	40	100 (102)
BT50-FMA31.75-125	1	31.75	125	22	M12	70	12.7	40	100 (102)
BT50-FMA31.75-150	1	31.75	150	22	M12	70	12.7	40	100 (102)
BT50-FMA31.75-200	1	31.75	200	22	M12	70	12.7	40	100 (102)
BT50-FMA38.1-45	1	38.1	45	23	M16	85	15.9	50	125
BT50-FMA38.1-75	1	38.1	75	23	M16	85	15.9	50	125
BT50-FMA50.8-45	1	50.8	45	24	M16	95	19.05	65	152
BT50-FMA50.8-75	1	50.8	75	24	M16	95	19.05	65	152
BT50-FMA47.625-75	2	47.625	75	32	--	128.57	25.4	--	200

-Tool Holder with BT shank for clamping face mill cutters. Face mill holders equipped with screws and drive keys to assemble the mill cutter to the holder.

-FACE MILL CUTTER is sold separately.

-FMA刀把適用於平面銑削加工。面銑刀盤為另購品。



FMA FACE MILL HOLDER -INCH

NT30/NT40/NT50-平面銑刀把

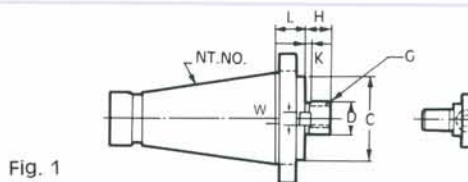


Fig. 1

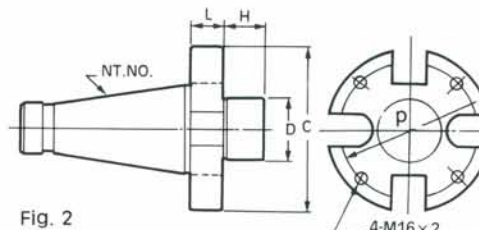


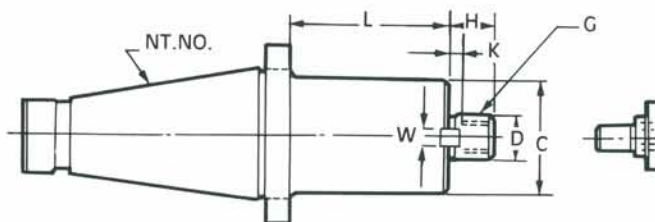
Fig. 2



(Unit: mm)

Model No.	Fig.	D	H	W	K	G	C	L	Draw Bolt
NT30-FMA25.4-20	1	25.4	20	9.57	5	M12	65	20	1/2-12 M12x1.75P
NT30-FMA31.75-20	1	31.75	22	12.75	7	M12	73	20	
NT30-FMA38.1-20	1	38.1	23	15.9	9	M16	82	20	
NT40-FMA25.4-20	1	25.4	20	9.57	5	M12	65	20	5/8-11 M16x2.0P
NT40-FMA31.75-20	1	31.75	22	12.75	7	M12	73	20	
NT40-FMA38.1-20	1	38.1	23	15.9	9	M16	82	20	
NT40-FMA50.8-20	1	50.8	24	19.05	10	M16	95	20	
NT40-FMA47.625-20	2	47.625	32	25.4	12	-	128.57	24	1"-8 M24x3.0P
NT50-FMA25.4-20	1	25.4	20	9.57	5	M12	65	20	
NT50-FMA31.75-20	1	31.75	22	12.75	7	M12	73	20	
NT50-FMA38.1-20	1	38.1	23	15.9	9	M16	82	20	
NT50-FMA50.8-20	1	50.8	24	19.05	10	M16	95	20	
NT50-FMA47.625-24	2	47.625	32	25.4	12	-	128.57	24	

NT30/NT40/NT50-LONG TYPE 平面銑刀把-加長



(Unit: mm)

Model No.	D	H	W	K	G	C	L	Draw Bolt
NT40-FMA25.4 -L	25.4	20	9.57	5	M12	60	50-75-100	5/8-11 M16x2.0P
NT40-FMA 31.75-L	31.75	22	12.75	7	M12	70	50-75-100	
NT40-FMA 38.1 -L	38.1	23	15.9	9	M16	85	50-75-100	
NT40-FMA 50.8 -L	50.8	24	19.05	10	M16	95	50-75-100	
NT50-FMA25.4 -L	25.4	20	9.57	5	M12	60	50-75-100-125-150-200-300	1"-8 M24x3.0P
NT50-FMA31.75 -L	31.75	22	12.75	7	M12	70	50-75-100-125-150-200-300	
NT50-FMA 38.1 -L	38.1	23	15.9	9	M16	85	50-75-100-125-150-200-300	
NT50-FMA 50.8-L	50.8	24	19.05	10	M16	95	50-75-100-125-150-200-300	
NT50-FMA 47.625 -L	47.625	32	25.4	12	-	128.57	50-75-100-125-150-200-300	

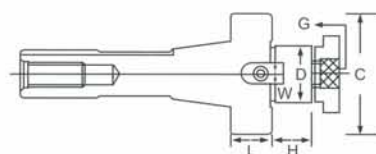
-Tool Holder with NT shank for clamping face mill cutters. When ordering, please specify the draw bolt for inch size or metric size.

-Face mill holders equipped with screws and drive keys to assemble the mill cutter to the holder.

-FACE MILL CUTTER is sold separately.

-FMA刀把適用於平面銑削加工。面銑刀盤為另購品。請於訂購時，確認刀桿為公制或英制。

R8 TAPER SHANK-平面銑刀把



(Unit: mm)

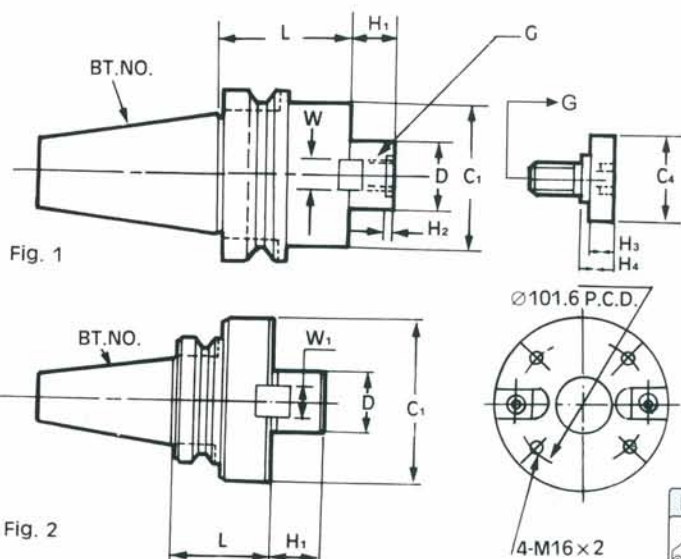
Model No.	D	H	W	G	C	L
R8-FMA25.4-20	25.4	20	9.57	M12	48	20
R8-FMA31.75-20	31.75	22	12.75	M12	54	20

-Tool Holder with R8 taper shank for clamping face mill cutters. Face mill holders equipped with screws and drive keys to assemble the mill cutter to the holder. FACE MILL CUTTER is sold separately.

-FMA刀把適用於平面銑削加工。面銑刀盤為另購品。



BT30/BT40/BT50-平面铣刀把



(Unit: mm)

Model No.	Fig.	D	L	C1	H1	H2	W	G	C4	H3	H4	Cutter dia.
BT30-FMB22-45	1	22	45	56	18	4	10	M10	-	-	-	63
BT30-FMB27-45	1	27	45	64	20	4	12	M12	32	13	17	80
BT40-FMB22-45	1	22	45	48	18	4	10	M10	-	-	-	63
BT40-FMB22-60	1	22	60	48	18	4	10	M10	-	-	-	63
BT40-FMB22-90	1	22	90	48	18	4	10	M10	-	-	-	63
BT40-FMB22-125	1	22	125	48	18	4	10	M10	-	-	-	63
BT40-FMB22-150	1	22	150	48	18	4	10	M10	-	-	-	63
BT40-FMB27-45	1	27	45	60	20	4	12	M12	32	13	17	80
BT40-FMB27-60	1	27	60	60	20	4	12	M12	32	13	17	80
BT40-FMB27-90	1	27	90	60	20	4	12	M12	32	13	17	80
BT40-FMB27-105	1	27	105	60	20	4	12	M12	32	13	17	80
BT40-FMB32-45	1	32	45	63	21	4	14	M16	41	16	20	100
BT40-FMB32-60	1	32	60	63	21	4	14	M16	41	16	20	100
BT40-FMB40-45	1	40	45	68	23	4	16	M16	47	15	20	100-125
BT40-FMB40-60	1	40	60	68	23	4	16	M16	47	15	20	100-125
BT50-FMB22-45	1	22	45	48	18	4	10	M10	-	-	-	63
BT50-FMB22-75	1	22	75	48	18	4	10	M10	-	-	-	63
BT50-FMB22-105	1	22	105	48	18	4	10	M10	-	-	-	63
BT50-FMB22-125	1	22	125	48	18	4	10	M10	-	-	-	63
BT50-FMB22-150	1	22	150	48	18	4	10	M10	-	-	-	63
BT50-FMB22-175	1	22	175	48	18	4	10	M10	-	-	-	63
BT50-FMB22-200	1	22	200	48	18	4	10	M10	-	-	-	63
BT50-FMB22-250	1	22	250	48	18	4	10	M10	-	-	-	63
BT50-FMB22-300	1	22	300	48	18	4	10	M10	-	-	-	63
BT50-FMB22-350	1	22	350	48	18	4	10	M10	-	-	-	63
BT50-FMB22-400	1	22	400	48	18	4	10	M10	-	-	-	63
BT50-FMB27-45	1	27	45	65	20	4	12	M12	32	13	17	80
BT50-FMB27-75	1	27	75	65	20	4	12	M12	32	13	17	80
BT50-FMB27-90	1	27	90	65	20	4	12	M12	32	13	17	80
BT50-FMB32-45	1	32	45	73	21	4	14	M16	41	16	20	100
BT50-FMB32-75	1	32	75	73	21	4	14	M16	41	16	20	100
BT50-FMB40-45	1	40	45	85	23	4	16	M16	47	15	20	100-125
BT50-FMB40-75	1	40	75	85	23	4	16	M16	47	15	20	100-125
BT50-FMB40-105	1	40	105	85	23	4	16	M16	47	15	20	100-125
BT50-FMB60-75	2	60	75	128.57	32	4	25.4	-	-	-	-	200

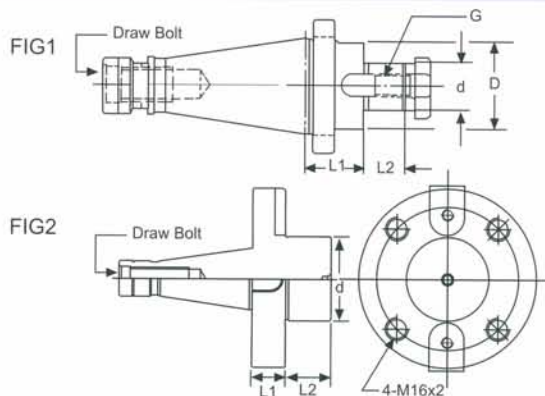
-Tool Holder with BT shank for clamping face mill cutters.Face mill holders equipped with screws and drive keys to assemble the mill cutter to the holder. FACE MILL CUTTER is sold separately.

-FMB刀把適用於平面銑削加工。面銑刀盤為另購品。



FMB FACE MILL HOLDER -METRIC

NT30/NT40/NT50-平面銑刀把

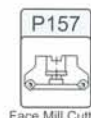
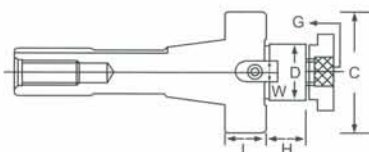


(Unit: mm)

Model No.	Fig.	d	L1	L2	D	G	Draw Bolt
NT30-FMB22-20	1	22	20	18	53	M10	1/2-12 M12x1.75P
NT30-FMB27-20	1	27	20	20	54	M12	
NT30-FMB32-20	1	32	20	21	59	M16	
NT40-FMB22-20	1	22	20	18	60	M10	5/8-11 M16x2.0P
NT40-FMB27-20	1	27	20	20	58	M12	
NT40-FMB32-20	1	32	20	21	69	M16	
NT40-FMB40-20	1	40	20	24	80	M16	
NT40-FMB60-24	2	60	24	32	128	-	1"-8 M24x3.0P
NT50-FMB22-20	1	22	20	18	40	M10	
NT50-FMB27-20	1	27	20	20	70	M12	
NT50-FMB32-20	1	32	20	21	76	M16	
NT50-FMB40-20	1	40	20	24	88	M16	
NT50-FMB60-24	2	60	24	32	128	-	

- Tool Holder with NT shank for clamping face mill cutters. When ordering, please specify the draw bolt for inch size or metric size.
- Face mill holders equipped with screws and drive keys to assemble the mill cutter to the holder.
- FACE MILL CUTTER is sold separately.
- FMB刀把適用於平面銑削加工。面銑刀盤為另購品。請於訂購時，確認刀桿為公制或英制。

R8 TAPER SHANK-平面銑刀把



(Unit: mm)

Model No.	D	H	W	C	L	G
R8-FMB22-20	22	18	10	48	20	M10
R8-FMB27-20	27	20	12	54	20	M12

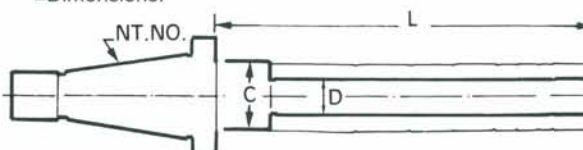
- Tool Holder with R8 taper shank for clamping face mill cutters. Face mill holders equipped with screws and drive keys to assemble the mill cutter to the holder. FACE MILL CUTTER is sold separately.
- FMB刀把適用於平面銑削加工。面銑刀盤為另購品。

HMA HORIZONTAL MILL ARBOR

NT40/NT50- 橫銑刀把



■Dimensions:



(Unit: mm)

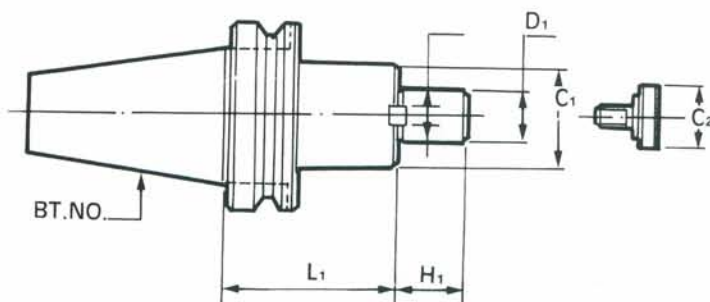
Model No.	(D)	D	L	C	Spacer thickness	Draw Bolt
NT40M-HMA(25.4)22/27-L	25.4	22/27	(500) (600)	40	5, 10, 20, 40, 60, 80	5/8-11
NT40M-HMA(31.75)32-L	31.75	32	(500) (600)	45	5, 10, 20, 40, 60, 80	M16x2.0P
NT50M-HMA(25.4)27-L	25.4	27	(600) (800)	40	5, 10, 20, 40, 60, 80	1"-8 M24x3.0P
NT50M-HMA(31.75)32-L	31.75	32	(600) (800)	45	5, 10, 20, 40, 60, 80	
NT50M-HMA38.1-L	38.1	38.1	(600) (800)	50	5, 10, 20, 40, 60, 80	

- When ordering please specify the D,L and NTshank that draw bolt is inch size and metric size.
- 請於訂購確認D和L以及刀桿為公制或英制。



SMA SHELL MILL HOLDER

BT30/BT40/BT50-殼型銑刀把



(Unit: mm)

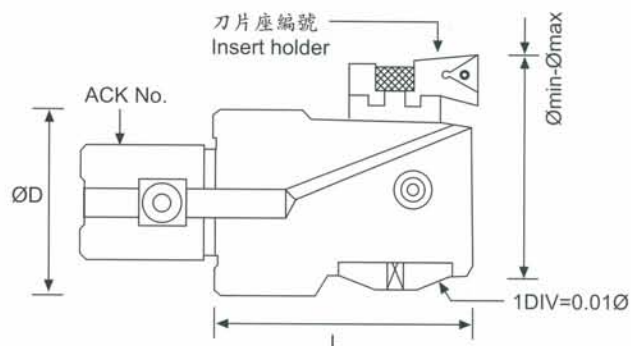
Model No.	D1		L1	H1	C1	C2	Cutter Diameter
BT30-SMA15.875(16)-45	15.875	(16)	45	17	34	20	ø35 ø40
BT30-SMA22.225(22)-45	22.225	(22)	45	27	42	28	ø45 ø50
BT30-SMA25.4(27)-45	25.4	(27)	45	36	50	33	ø60 ø75
BT30-SMA25.4(27)-60	25.4	(27)	60	36	50	33	ø63 ø80
BT40-SMA15.875(16)-60	15.875	(16)	60	17	34	20	ø35 ø40
BT40-SMA15.875(16)-120	15.875	(16)	120	17	34	20	ø35 ø40
BT40-SMA22.225(22)-60	22.225	(22)	60	27	42	28	ø45 ø50
BT40-SMA22.225(22)-120	22.225	(22)	120	27	42	28	ø45 ø50
BT40-SMA22.225(22)-180	22.225	(22)	180	27	42	28	ø45 ø50
BT40-SMA25.4(27)-45	25.4	(27)	45	36	50	33	ø60(63) ø75(80)
BT40-SMA25.4(27)-60	25.4	(27)	60	36	50	33	ø60(63) ø75(80)
BT40-SMA25.4(27)-105	25.4	(27)	105	36	50	33	ø60(63) ø75(80)
BT40-SMA25.4(27)-150	25.4	(27)	150	36	50	33	ø60(63) ø75(80)
BT40-SMA31.75(32)-45	31.75	(32)	45	38	60	40	ø100
BT40-SMA31.75(32)-60	31.75	(32)	60	38	60	40	ø100
BT40-SMA31.75(32)-90	31.75	(32)	90	38	60	40	ø100
BT40-SMA38.1(40)-60	38.1	(40)	60	38	80	50	ø125
BT40-SMA38.1(40)-90	38.1	(40)	90	38	80	50	ø125
BT50-SMA15.875(16)-75	15.875	(16)	75	17	34	20	ø35 ø40
BT50-SMA15.875(16)-120	15.875	(16)	120	17	34	20	ø35 ø40
BT50-SMA22.225(22)-75	22.225	(22)	75	27	42	28	ø45 ø50
BT50-SMA22.225(22)-120	22.225	(22)	120	27	42	28	ø45 ø50
BT50-SMA22.225(22)-180	22.225	(22)	180	27	42	28	ø45 ø50
BT50-SMA25.4(27)-45	25.4	(27)	45	36	50	33	ø60 ø75
BT50-SMA25.4(27)-75	25.4	(27)	75	36	50	33	ø60 ø75
BT50-SMA25.4(27)-105	25.4	(27)	105	36	50	33	ø60 ø75
BT50-SMA25.4(27)-150	25.4	(27)	150	36	50	33	ø60 ø75
BT50-SMA31.75(32)-45	31.75	(32)	45	38	60	40	ø100
BT50-SMA31.75(32)-75	31.75	(32)	75	38	60	40	ø100
BT50-SMA31.75(32)-105	31.75	(32)	105	38	60	40	ø100
BT50-SMA38.1(40)-45	38.1	(40)	45	38	80	50	ø125
BT50-SMA38.1(40)-75	38.1	(40)	75	38	80	50	ø125

- BT shank for clamping face mill cutters.
- Shell mill holders equipped with screws and drive keys to assemble the mill cutter to the holder.
- When ordering please specify the D1 size.
- 請於訂購時，確認D1規格為英制或公制。



BCK MICRO BORING HEAD

BCK 微調精搪頭



BCK MICRO BORING HEAD/ BCK 微調精搪頭

Model No.	ACK NO.	ØD	L	搪孔範圍 Boring Range		刀片座編號 Insert holder
				ØMin.	ØMax.	
BCK30	3	28	40	30	43	BCK H3
BCK42	4	36	50	42	55	BCK H4
BCK52	5	48	55	52	75	BCK H5
BCK68	6	64	60	68	102	BCK H6

INSERT HOLDER/ TIPS 刀片及刀片座

Insert holder / 刀片座	Tips No. / 刀片型號	Screws / 刀片螺絲	Wrench
BCK H3	TBGT 0601...L	MS2005A	T6
BCK H4	TPGT 0802...L	MS2205A	T7
BCK H5	TPGH 0902...L	MS2506A	T9
BCK H6	TPGH 0902...L	MS2056A	T9

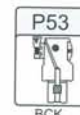
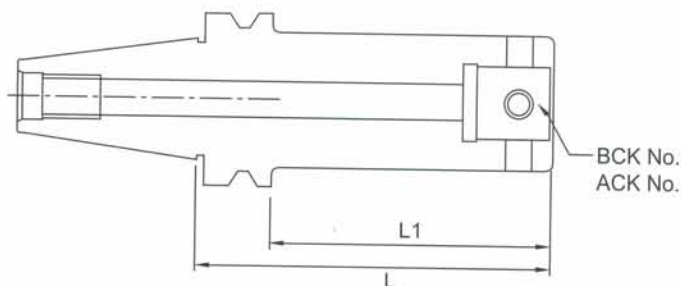
- Fine adjusting available, one graduation on the scale is $\varnothing 0.01$ mm.
- Coolant type boring head.
- It can be applicable for ACK tool holder / extension adapter.
- Boring range: Min. $\varnothing 30$ ~ Max $\varnothing 102$ mm.
- 精度調整，每刻度為 $\varnothing 0.01$ mm。
- 油孔型可供切削液。
- 可連接ACK刀桿 / 延長桿。
- 加工範圍： $\varnothing 30 \sim \varnothing 102$ mm。





ACK/BCK ADJUSTABLE BALANCE CUTTER TOOL HOLDER

BT40/BT50-ACK/BCK 搪孔刀柄



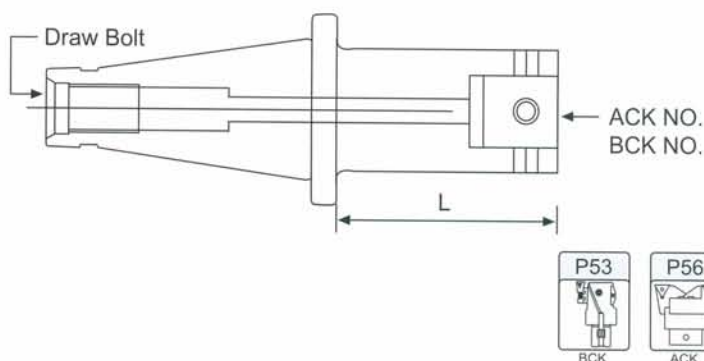
Model No.	L	L1	ADAPTER	ACK No. Cutter	Boring Range	
					Min.	Max.
BT40-ACK1-60	60	35	ACK1	ACK19	19	25
BT40-ACK1-80	80	55	ACK1	ACK19	19	25
BT40-ACK2-60	60	35	ACK2	ACK25	25	33
BT40-ACK2-80	80	55	ACK2	ACK25	25	33
BT40-ACK2-100	100	75	ACK2	ACK25	25	33
BT40-ACK2-120	120	95	ACK2	ACK25	25	33
BT40-ACK3-60	60	35	ACK3	ACK32	32	42
BT40-ACK3-80	80	55	ACK3	ACK32	32	42
BT40-ACK3-100	100	75	ACK3	ACK32	32	42
BT40-ACK3-120	120	95	ACK3	ACK32	32	42
BT40-ACK4-80	80	55	ACK4	ACK40	40	55
BT40-ACK4-100	100	75	ACK4	ACK40	40	55
BT40-ACK4-125	125	100	ACK4	ACK40	40	55
BT40-ACK5-80	80	55	ACK5	ACK52	52	70
BT40-ACK5-100	100	75	ACK5	ACK52	52	70
BT40-ACK5-135	135	110	ACK5	ACK52	52	70
BT40-ACK6-55	55	30	ACK6	ACK68	68	92
BT40-ACK6-55	55	30	ACK6	ACK90	90	122
BT50-ACK2-90	90	55	ACK2	ACK25	25	33
BT50-ACK2-125	125	90	ACK2	ACK25	25	33
BT50-ACK3-90	90	55	ACK3	ACK32	32	42
BT50-ACK3-125	125	90	ACK3	ACK32	32	42
BT50-ACK4-115	115	80	ACK4	ACK40	40	55
BT50-ACK4-175	175	140	ACK4	ACK40	40	55
BT50-ACK5-90	90	55	ACK5	ACK52	52	70
BT50-ACK5-135	135	80	ACK5	ACK52	52	70
BT50-ACK5-195	195	160	ACK5	ACK52	52	70
BT50-ACK6-110	110	75	ACK6	ACK68	68	92
BT50-ACK6-110	110	75	ACK6	ACK90	90	122
BT50-ACK6-170	170	135	ACK6	ACK68	68	92
BT50-ACK6-170	170	135	ACK6	ACK90	90	122
BT50-ACK6-215	215	180	ACK6	ACK68	68	92
BT50-ACK6-215	215	180	ACK6	ACK90	90	122

- ACK19-ACK90 that boring range is from 19mm~122mm
- BCK30-BCK68 that boring range is from 30mm~102mm
- Balance cutting with two carbide inserts that reduce vibration and steady for cutting
- ACK19-ACK90其搪孔範圍為：19mm~122mm
- BCK30-BCK68其搪孔範圍為：30mm~102mm
- ACK刀頭雙層對稱式刀座設計可於加工時降低震動、斷屑容易。



ACK/BCK ADJUSTABLE BALANCE CUTTER TOOL HOLDER

NT40/NT50-ACK/BCK 搪孔刀柄



Model No.	L	ADAPTER	ACK NO. (Cutter)	Boring Range		Draw Bolt
				Min.	Max.	
NT40-ACK1-60	60	ACK1	ACK19	19	25	5/8-11 M16x2.0P
NT40-ACK1 80	80	ACK1	ACK19	19	25	
NT40-ACK2-60	60	ACK2	ACK25	25	33	
NT40-ACK2-80	80	ACK2	ACK25	25	33	
NT40-ACK2-100	100	ACK2	ACK25	25	33	
NT40-ACK2-120	120	ACK2	ACK25	25	33	
NT40-ACK3-60	60	ACK3	ACK32	32	42	
NT40-ACK3 80	80	ACK3	ACK32	32	42	
NT40-ACK3-100	100	ACK3	ACK32	32	42	
NT40-ACK3-120	120	ACK3	ACK32	32	42	
NT40-ACK4-80	80	ACK4	ACK40	40	55	
NT40-ACK4-100	100	ACK4	ACK40	40	55	
NT40-ACK4-125	125	ACK4	ACK40	40	55	
NT40-ACK5-80	80	ACK5	ACK52	52	70	
NT40-ACK5-100	100	ACK5	ACK52	52	70	
NT40-ACK5-135	135	ACK5	ACK52	52	70	
NT40-ACK6-55	55	ACK6	ACK68	68	92	1"-8 M24x3.0P
NT40-ACK6-55	55	ACK6	ACK90	90	122	
NT50-ACK2-90	90	ACK2	ACK25	25	33	
NT50-ACK2-125	125	ACK2	ACK25	25	33	
NT50-ACK3-90	90	ACK3	ACK32	32	42	
NT50-ACK3-125	125	ACK3	ACK32	32	42	
NT50-ACK4-115	115	ACK4	ACK40	40	55	
NT50-ACK4-175	175	ACK4	ACK40	40	55	
NT50-ACK5-90	90	ACK5	ACK52	52	70	
NT50-ACK5-135	135	ACK5	ACK52	52	70	
NT50-ACK5-195	195	ACK5	ACK52	52	70	
NT50-ACK6-110	110	ACK6	ACK68	68	92	
NT50-ACK6-110	110	ACK6	ACK90	90	122	
NT50-ACK6-170	170	ACK6	ACK68	68	92	
NT50-ACK6-170	170	ACK6	ACK90	90	122	
NT50-ACK6-215	215	ACK6	ACK68	68	92	
NT50-ACK6-215	215	ACK6	ACK90	90	122	

- ACK19-ACK90 that boring range is from 19mm~122mm
- BCK30-BCK68 that boring range is from 30mm~102mm
- Balance cutting with two carbide inserts that reduce vibration and steady for cutting
- ACK19-ACK90其搪孔範圍為：19mm~122mm
- BCK30-BCK68其搪孔範圍為：30mm~102mm
- ACK刀頭雙層對稱式刀座設計可於加工時降低震動、斷屑容易。



ACK ADJUSTABLE BALANCE CUTTER & EXTENSION ADAPTER

ADJUSTABLE BALANCE CUTTER-雙刃粗搪刀頭 $\varnothing 19\sim\varnothing 122\text{mm}$



Model No.	C	Boring Range		L	Tool Holder
		Min.	Max.		
ACK19	18	19	25	38	ACK1
ACK25	20	25	33	45	ACK2
ACK32	28	32	42	50	ACK3
ACK40	36	40	55	65	ACK4
ACK52	48	52	70	70	ACK5
ACK68	60	68	92	80	ACK6
ACK90	80	90	122	90	ACK6

Features:

1. AA type - 兩刃同高：用於盲孔=>Fig1

AA type-Standard type = Use the blind hole

2. AB type - 兩刃不同高：用於通孔=>Fig2

AB type-Stepped type = Use the through hole

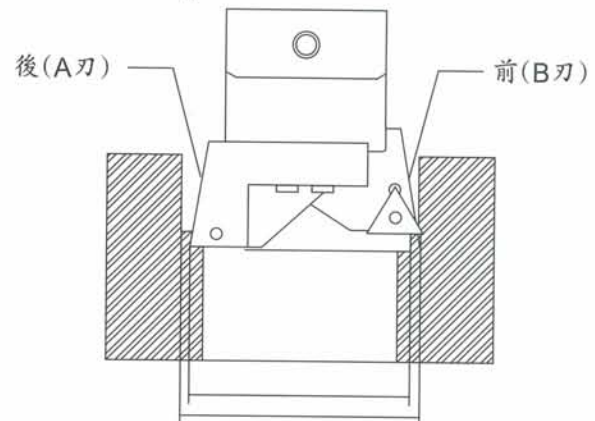
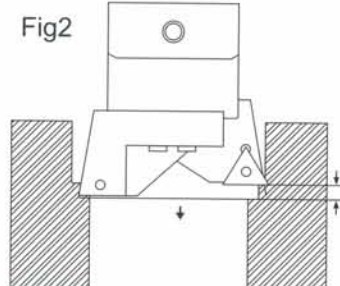
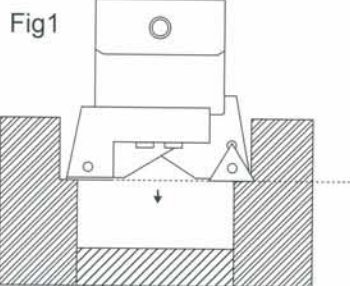
3. AB type - 2段平衡式切削

將刀片座分為一前(B刃)一後(A刃)

比標準型增加約2倍的切削力

AB type-Stepped cutting

Stepped design: Approx double removal of standard cutting conditions.



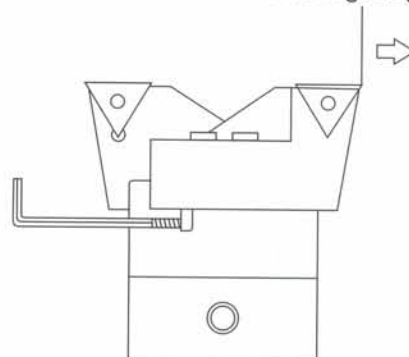
4. ACK19~ACK90：為出水型搪頭

ACK19~ACK90：Coolant type boring head



5. 旋轉兩顆螺絲，即可調整搪孔尺寸

Adjust screws that can set the boring range.



EXTENSION ADAPTER-雙刀刀頭延長桿



Type	D	L	ACK/BCK CUTTER TYPE
ACK1-30	11	30	ACK19
ACK2-30	14	30	ACK25
ACK3-35	18	35	ACK32/BCK30
ACK4-40	22	40	ACK40/BCK42
ACK5-45	28	45	ACK52/BCK52
ACK6-52	36	52	ACK68/ACK90/BCK68



TIPS APPLICABLE INSERT TIP FOR ACK BALANCE CUTTER

TIPS-刀片



CCMT

Adjustable Balance Cutter	Insert Tip No.	Screw	Wrench
ACK19 / ACK25	CCMT 06 02 04	MS2506	T8
ACK32	CCMT 06 02 08	MS2506	T9
ACK40 / ACK52	CCMT 09 T3 08	MS4011	T15
ACK68/ACK90	CCMT 12 04 08	MS5011	T20



TCMT

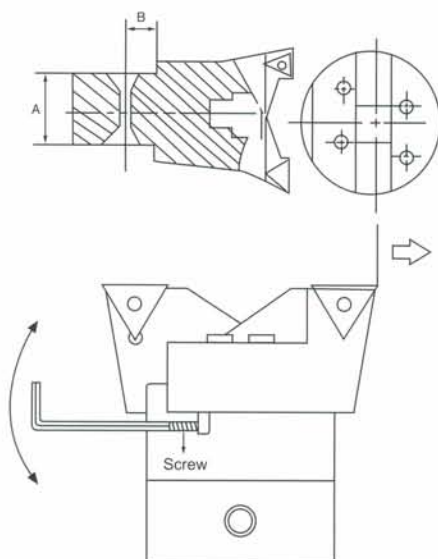
Adjustable Balance Cutter	Insert Tip No.	Screw	Wrench
ACK32	TCMT 11 02 08	MS2506	T8
ACK40 / ACK52/ACK68	TCMT 16 T3 08	MS4011	T15
ACK90	TCMT 22 04 08	MS5011	T20

-For working material, the inserts divided the most common use 3 types: 1.IRON: KC850, 2.CAST IRON: KC5010, 3.ALUM:KC313.

-刀片區別於加工三種材質：1.鐵: KC850, 2.鑄鐵: KC5010, 3.鋁:KC313.

-When ordering: Please mark material code.訂購時請註明材質編號

Example/例
CCMT 060204 KC850



Cutter Type	Suitable Holder	A	B	Screw
ACK19	ACK1	11	5	3x6
ACK25	ACK2	14	6	3x6
ACK32	ACK3	18	7	4x8
ACK40	ACK4	22	9	4x12
ACK52	ACK5	28	12	5x15
ACK68	ACK6	36	15	6x20
ACK90	ACK6	36	15	8x25



BST ADJUSTABLE BALANCE CUTTER TOOL HOLDER

BT50 / NT50-大口徑雙刀粗搪刀柄



FIG1.

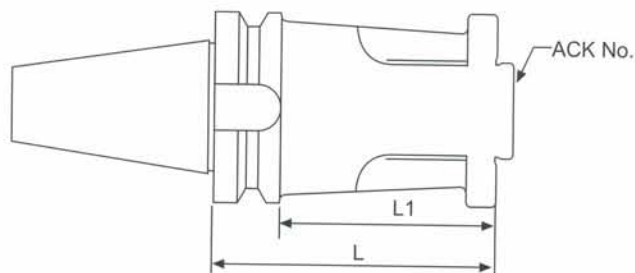
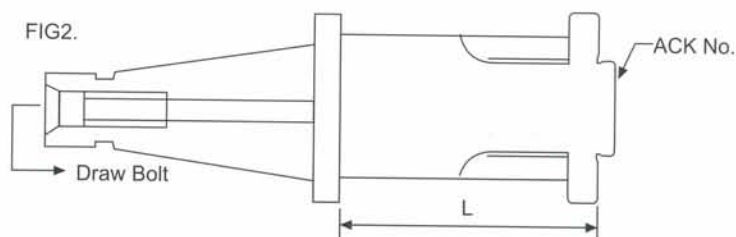


FIG2.



BT50-FIG1

Model No.	L	L1	ACK No
BT50-BST100	100	65	
BT50-BST125	125	90	
BT50-BST150	150	115	
BT50-BST175	175	140	ACK120
BT50-BST200	200	165	ACK160
BT50-BST225	225	190	ACK200
BT50-BST250	250	215	ACK300
BT50-BST275	275	240	ACK400
BT50-BST300	300	265	
BT50-BST350	350	315	
BT50-BST400	400	365	

NT50-FIG2

Model No.	L	ACK No	Draw Bolt
NT50-BST100	100		
NT50-BST125	125		
NT50-BST150	150		
NT50-BST175	175	ACK120	
NT50-BST200	200	ACK160	
NT50-BST225	225	ACK200	
NT50-BST250	250	ACK300	
NT50-BST275	275	ACK400	
NT50-BST300	300		
NT50-BST350	350		
NT50-BST400	400		

-When ordering please specify the draw bolt for inch size or metric size

-請於訂購時，確認刀桿為英制或公制。

ADJUSTABLE BALANCE CUTTER-大口徑雙刀粗搪刀頭Ø120~Ø500mm



Model No.	C	Boring Range		L	Tool Holder
		Min.	Max.		
ACK120	90	120	164	95	BT50 BST
ACK160	130	160	204	95	
ACK200	170	200	300	95	
ACK300	170	300	400	95	
ACK400	170	400	500	95	

-ACK120-ACK140 that boring range is from 120mm~500mm.

-Balance cutting with two carbide inserts that reduce vibration and steady for cutting.

-ACK120-ACK140其搪孔範圍為120mm~500mm.

-ACK刀桿雙層對稱式刀座設計可於加工時降底震動、斷屑容易。


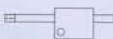



TIPS APPLICABLE INSERT TIP FOR ACK BALANCE CUTTER

TIPS-刀片


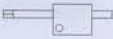



CCMT

Adjustable Balance Cutter	Insert Tip No.	Screw 	Wrench 
ACK120 / ACK160 ACK200 / ACK 300 ACK400	CCMT 12 04 08 	MS5011	T20



TCMT

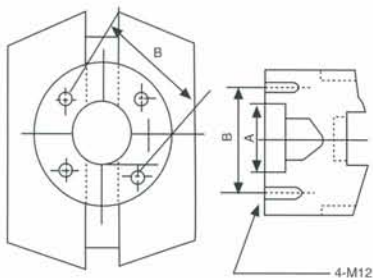
Adjustable Balance Cutter	Insert Tip No.	Screw 	Wrench 
ACK120 / ACK160 ACK200 / ACK300 ACK400	TCMT 22 04 08 	MS5011	T20


-For working material, the insets divided the most common use 3 types: 1.IRON: KC850, 2.CAST IRON: KC5010, 3.ALUM:KC313.

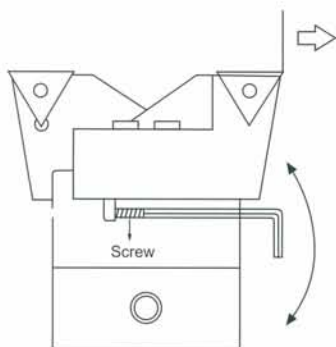
-刀片區別於加工三種材質：1.鐵: KC850, 2.鑄鐵: KC5010, 3.鋁:KC313.

-When ordering: Please mark material code.訂購時請註明材質編號

Example/例
CCMT 120408 KC850



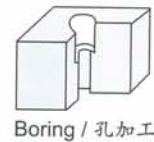
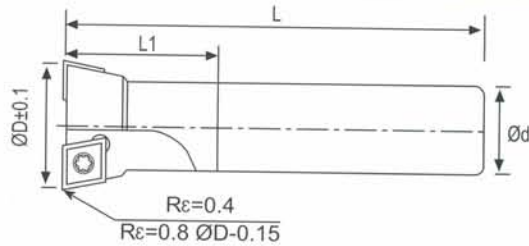
Cutter Type	Suitable Holder	A	B	Screw 
ACK120	BST	50	72	8x30
ACK160	BST	50	72	8x45
ACK200	BST	50	72	8x60
ACK300	BST	50	72	8x60
ACK400	BST	50	72	8x60





FIXED ROUGH BORING BAR

固定式粗搪刀桿



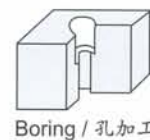
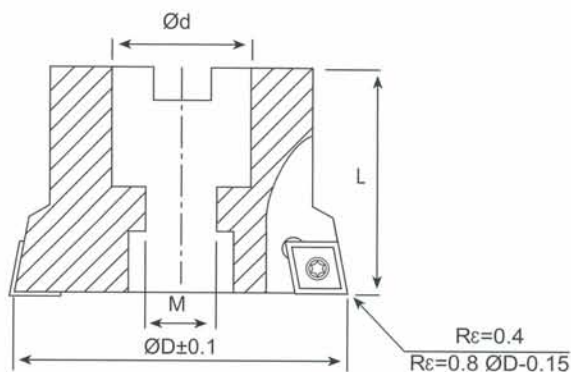
Boring / 孔加工

TB	Ordering code		Ordering code		Ordering code		Dimensions mm			Teeth	Insert
		L		L		L	D	d	L1		
12	TB12-S16-120	120	TB12-S16-160	160	TB12-S16-200	200	11.8	16	30	1	CC..060204
13	TB13-S16-120		TB13-S16-160		TB13-S16-200		12.8				
14	TB14-S16-120		TB14-S16-160		TB14-S16-200		13.8				
15	TB15-S16-120		TB15-S16-160		TB15-S16-200		14.8				
16	TB16-S16-120-T2	120	TB16-S16-160-T2	160	TB16-S16-200-T2	200	15.8	16	30	2	CC..060204
17	TB17-S16-120-T2		TB17-S16-160-T2		TB17-S16-200-T2		16.8				
18	TB18-S16-120		TB18-S16-160		TB18-S16-200		17.8				
19	TB19-S16-120		TB19-S16-160		TB19-S16-200		18.8				
20	TB20-S16-120		TB20-S16-160		TB20-S16-200		19.8				CC..060204
21	TB21-S16-120	120	TB21-S16-160	160	TB21-S16-200	200	20.8	16	30	2	
22	TB22-S16-120		TB22-S16-160		TB22-S16-200		21.8				
23	TB23-S20-130	130	TB23-S20-160	160	TB23-S20-200	200	22.8	20	30	2	CC..060204
24	TB24-S20-130		TB24-S20-160		TB24-S20-200		23.8				
25	TB25-S20-130		TB25-S20-160		TB25-S20-200		24.8				
26	TB26-S20-130	130	TB26-S20-160	160	TB26-S20-200	200	25.8	20	30	2	CC..09T304
27	TB27-S20-130		TB27-S20-160		TB27-S20-200		26.8				
28	TB28-S20-130		TB28-S20-160		TB28-S20-200		27.8				
29	TB29-S20-130		TB29-S20-160		TB29-S20-200		28.8				
30	TB30-S25-160	160	TB30-S25-200	200	TB30-S25-250	250	29.8	25	40	2	CC..09T304
31	TB31-S25-160	160	TB31-S25-200	200	TB31-S25-250	250	30.8	25	40	2	
32	TB32-S25-160		TB32-S25-200		TB32-S25-250		31.8				
33	TB33-S25-160		TB33-S25-200		TB33-S25-250		32.8				
34	TB34-S25-160		TB34-S25-200		TB34-S25-250		33.8				CC..09T304
35	TB35-S25-160		TB35-S25-200		TB35-S25-250		34.8				
36	TB36-S25-160	160	TB36-S25-200	200	TB36-S25-250	250	35.8	25	40	2	
37	TB37-S25-160		TB37-S25-200		TB37-S25-250		36.8				
38	TB38-S25-160		TB38-S25-200		TB38-S25-250		37.8				CC..09T304
39	TB39-S25-160		TB39-S25-200		TB39-S25-250		38.8				
40	TB40-S25-160		TB40-S25-200		TB40-S25-250		39.8				
41	TB41-S32-200	200	TB41-S32-250	250	TB41-S32-300	300	40.8	32	45	2	CC..09T304
42	TB42-S32-200		TB42-S32-250		TB42-S32-300		41.8				
43	TB43-S32-200		TB43-S32-250		TB43-S32-300		41.8				
44	TB44-S32-200		TB44-S32-250		TB44-S32-300		41.8				
45	TB45-S32-200		TB45-S32-250		TB45-S32-300		41.8				CC..09T304
46	TB46-S32-200	200	TB46-S32-250	250	TB46-S32-300	300	40.8	32	45	2	
47	TB47-S32-200		TB47-S32-250		TB47-S32-300		41.8				
48	TB48-S32-200		TB48-S32-250		TB48-S32-300		42.8				
49	TB49-S32-200		TB49-S32-250		TB49-S32-300		43.8				CC..09T304
50	TB50-S32-200		TB50-S32-250		TB50-S32-300		44.8				
51	TB51-S32-200	200	TB51-S32-250	250	TB51-S32-300	300	45.8	32	45	2	
52	TB52-S32-200		TB52-S32-250		TB52-S32-300		46.8				
53	TB53-S32-200		TB53-S32-250		TB53-S32-300		47.8				CC..09T304
54	TB54-S32-200		TB54-S32-250		TB54-S32-300		48.8				
55	TB55-S32-200		TB55-S32-250		TB55-S32-300		49.8				
56	TB56-S32-200	200	TB56-S32-250	250	TB56-S32-300	300	50.8	32	45	2	
54	TB57-S32-200		TB57-S32-250		TB57-S32-300		51.8				



FIXED ROUGH BORING BAR

固定式粗搪刀桿



Boring / 孔加工

TB	Ordering code (d=22.0)	Ordering code (d=25.4)	Insert 	Ordering code (d=25.4)	Insert 	Rc=0.4 D	Teeth
45	TB45-22.0-CC09		CC..09T304		CC..120404	44.8	2
46	TB46-22.0-CC09					45.8	
47	TB47-22.0-CC09					46.8	
48	TB48-22.0-CC09					47.8	
50	TB50-22.0-CC09					49.8	
51	TB51-22.0-CC09		CC..09T304		CC..120404	50.8	2
52	TB52-22.0-CC09					51.8	
55	TB55-22.0-CC09					54.8	
57	TB57-22.0-CC09		CC..09T304	TB57-22.0-CC12	CC..120404	50.8	2
59	TB59-22.0-CC09	TB59-25.4-CC09				58.8	
60	TB60-22.0-CC09	TB60-25.4-CC09		TB60-22.0-CC12		59.8	
62	TB62-22.0-CC09	TB62-25.4-CC09	CC..09T304	TB62-25.4-CC12	CC..120404	61.8	2
63				TB63-25.4-CC12		62.8	
65		TB65-25.4-CC09		TB65-25.4-CC12		64.8	
66		TB66-25.4-CC09	CC..09T304	TB66-25.4-CC12	CC..120404	65.8	2
68	TB68-22.0-CC09	TB68-25.4-CC09		TB68-25.4-CC12		67.8	
69		TB69-25.4-CC09				68.8	
70		TB70-25.4-CC09		TB70-25.4-CC12		69.8	
72	TB72-22.0-CC09	TB72-25.4-CC09	CC..09T304	TB72-25.4-CC12	CC..120404	71.8	2
74		TB74-25.4-CC09				73.8	
75		TB75-25.4-CC09		TB75-25.4-CC12		74.8	
76		TB76-25.4-CC09	CC..09T304	TB76-25.4-CC12	CC..120404	75.8	2
78		TB78-25.4-CC09		TB78-25.4-CC12		77.8	
80		TB80-25.4-CC09		TB80-25.4-CC12		79.8	
82		TB82-25.4-CC09	CC..09T304	TB82-25.4-CC12	CC..120404	81.8	2
84		TB84-25.4-CC09		TB84-25.4-CC12		83.8	
85		TB85-25.4-CC09		TB85-25.4-CC12		84.8	
88			CC..09T304	TB88-25.4-CC12	CC..120404	87.8	2
90		TB90-25.4-CC09		TB90-25.4-CC12		89.8	
95		TB95-25.4-CC09	CC..09T304	TB95-25.4-CC12	CC..120404	94.8	2

Insert 	Screw 	Wrench
CCMT 060204	MS2506A	TF9
CCMT 09T304	MS4011A	TF15
CCMT 120404	MS5011A	TF20

Dimensions, mm	d	M	L
TB...-22.0-...	22.0	11	50
TB...-25.4-...	25.4	13	50
TB...-31.75-...	31.75	13	50

-For working material, the inserts divided the most common use 3 types: 1.IRON: KC850, 2.CAST IRON: KC5010, 3.ALUM:KC313.

-刀片區別於加工三種材質：1.鐵: KC850, 2.鑄鐵: KC5010, 3.鋁:KC313.

-When ordering: Please mark material code. 訂購時請註明材質編號

Example/例
CCMT 120408 KC850



SCA SIDE CUTTER ARBOR

BT30/BT40/BT50- 側銑刀把

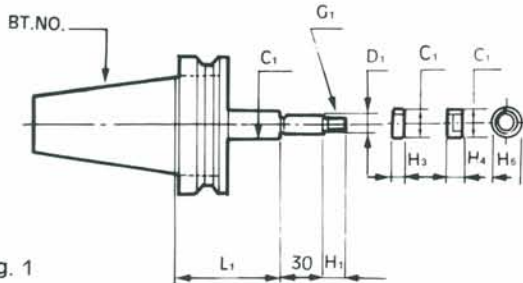


Fig. 1

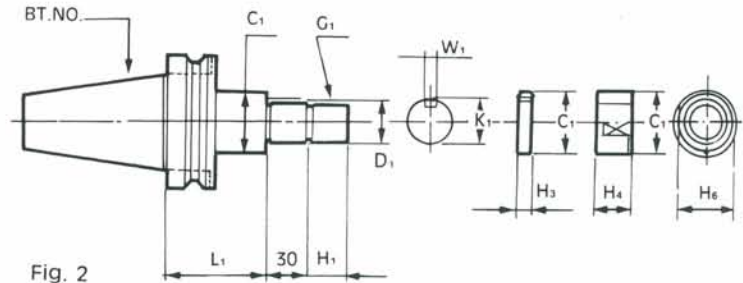


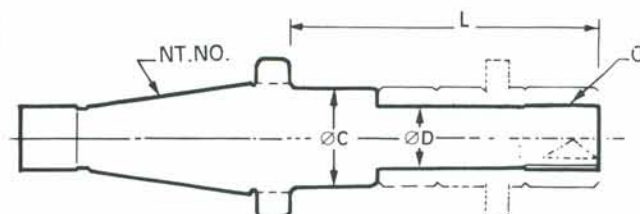
Fig. 2

Model No.	Fig.	D1	L1	C1	G1	H1	W1	K1	H3	H4	H6
BT30-SCA13-60 BT30-SCA13-90	1	13	60 90	20	M12x1.75	15	-	-	5 • 10 • 20	12	17
BT30-SCA16-75 BT30-SCA16-105 BT30-SCA22-75 BT30-SCA22-120	2	16	75 105	26	M16x1.5	16	4	17.2		13	22
BT30-SCA22-75 BT30-SCA22-120		22	75 120	34	M22 x 1.5	21	6	23.6		18	30
BT40-SCA13-60 BT40-SCA13-90	1	13	60 90	20	M12 x 1.75	15	-	-		12	17
BT40-SCA16-75 BT40-SCA16-105 BT40-SCA22-75 BT40-SCA22-120	2	16	75 105	26	M16x1.5	16	4	17.2		13	22
BT40-SCA22-75 BT40-SCA22-120		22	75 120	34	M22x1.5	21	6	23.6		18	30
BT40-SCA27-75 BT40-SCA27-120 BT40-SCA32-90		27	75 120	40	M25x1.5	25	7	29		21	32
BT40-SCA32-90		32	90	46	M31x2	30	8	34		26	41
BT40-SCA12.7-60 BT40-SCA12.7-90	1	12.7	60 90	20	M12X1.75	15	-	-		12	17
BT40-SCA15.875-75 BT40-SCA15.875-105 BT40-SCA22.225-75 BT40-SCA22.225-120	2	15.875	75 105	26	M16x1.5	16	3.18	17.42		13	22
BT40-SCA22.225-75 BT40-SCA22.225-120		22.225	75 120	34	M22x1.5	21	3.18	23.82		18	30
BT40-SCA25.4-75 BT40-SCA25.4-120 BT40-SCA31.75-90		25.4	75 120	40	M25x2	25	6.35	27.78		21	32
BT40-SCA31.75-90		31.75	90	46	M31x2	30	7.92			26	41
BT50-SCA13-75 BT50-SCA13-105	1	13	75 105	20	M12x1.75	15	-	-		12	17
BT50-SCA16-90 BT50-SCA16-120 BT50-SCA22-90 BT50-SCA22-135 BT50-SCA27-90 BT50-SCA27-135 BT50-SCA32-90 BT50-SCA32-135 BT50-SCA40-90 BT50-SCA40-135	2	16	90 120	26	M16x1.5	16	4	17.2		13	22
BT50-SCA22-90 BT50-SCA22-135		22	90 135	34	M16x1.5	21	6	23.6		18	30
BT50-SCA27-90 BT50-SCA27-135		27	90 135	40	M25x1.5	25	7	29		21	32
BT50-SCA32-90 BT50-SCA32-135		32	90 135	46	M31x2	30	8	34		26	41
BT50-SCA40-90 BT50-SCA40-135		40	90 135	55	M36x2	36	10	42.5		31	46
BT50-SCA12.7-75 BT50-SCA12.7-105	1	12.7	75 105	20	M12x1.75	15	-	-		12	17
BT50-SCA15.875-90 BT50-SCA15.875-120 BT50-SCA22.225-90 BT50-SCA22.225-135		15.875	90 120	26	M16x1.5	16	3.18	17.42	13	22	
BT50-SCA22.225-90 BT50-SCA22.225-135		22.225	90 135	34	M22x1.5	21	-	23.82	18	30	
BT50-SCA25.4-90 BT50-SCA25.4-135 BT50-SCA31.75-90 BT50-SCA31.75-135 BT50-SCA38.1-90 BT50-SCA38.1-135	2	25.4	90 135	40	M25x1.5	25	6.35	27.78	21	32	
BT50-SCA31.75-90 BT50-SCA31.75-135		31.75	90 135	46	MT31x2	30	7.92	34.92	26	41	
BT50-SCA38.1-90 BT50-SCA38.1-135		38.1	90 135	55	M36x2	36	9.52	42.06	31	46	



SCA SIDE CUTTER ARBOR

NT30/NT40/NT50- 側銑刀把



(Unit: mm)

Model NO.	D	C	G	L	Draw Bolt
NT30-SCA25.4-L	25.4	40	M25x1.5	3", 4", 5", 6"	1/2-12
NT30-SCA31.75-L	31.75	45	M31x2	3", 4", 5", 6"	M12x1.5P
NT40-SCA25.4-L	25.4	40	M25x1.5	3", 4", 5", 6", 7", 8"	5/8-11
NT40-SCA31.75-L	31.75	45	M31x2	3", 4", 5", 6", 7", 8"	M16x2.0P
NT50-SCA25.4-L	25.4	40	M25x1.5	3", 4", 5", 6", 7", 8"	1"-8
NT50-SCA31.75-L	31.75	45	M31x2	3", 4", 5", 6", 7", 8"	M24x3.0P
NT50-SCA38.1-L	38.1	50	M36xP2	3", 4", 5", 6", 7", 8"	

-NT shank with side cutter arbor. When ordering, please specify the draw bolt for inch size or metric size.

-Please advice length (L) when ordering.

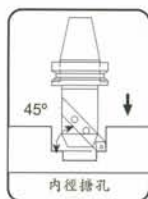
-請於訂購時，確認刀桿為公制或英制。

-請於訂購時，確認刀桿(L)。

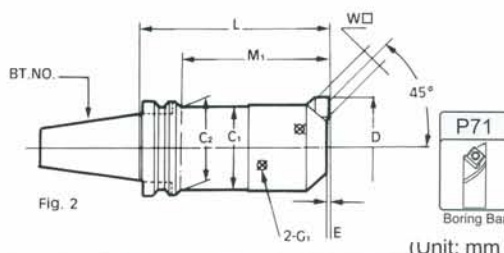
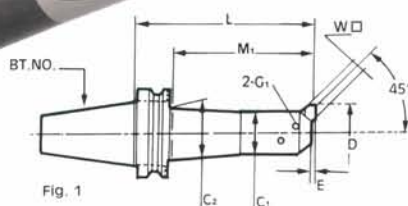


BT30/BT40/BT50- 粗搪刀把

Holder for rough boring with angular setting square bit to axis.



■Dimensions:



(Unit: mm)

Model No.	Fig	D		L	M1	C1	C2	E	W	Tool Length	
		min.	max.								
BT30-BSA20-105	1	20	30	105	85	17	19	--	6	23	
BT30-BSA25-120	1	25	38	120	100	20	24	1	8	29	
BT30-BSA25-160	1	25	38	160	140	20	24	1	8	29	
BT30-BSA30-150	1	30	42	150	130	24	28	1.6	8	35	
BT30-BSA30-180	1	30	42	180	160	24	28	1.6	8	35	
BT30-BSA30-210	1	30	42	210	190	24	28	1.6	8	35	
BT30-BSA38-165	1	38	52	165	145	30	36	2.6	10	44	
BT30-BSA50-165	1	50	65	165	145	40	48	3	13	58	
BT30-BSA50-210	1	50	65	210	190	40	48	3	13	58	
BT40-BSA25-135	1	25	38	135	110	20	24	1	8	29	
BT40-BSA30-150	1	30	42	150	125	24	28	1.6	8	35	
BT40-BSA38-165	1	38	52	165	140	30	36	2.6	10	44	
BT40-BSA50-165	1	50	65	165	140	40	48	3	13	58	
BT40-BSA50-210	1	50	65	210	185	40	48	3	13	58	
BT40-BSA62-165	1	62	90	165	140	50	48	2	16	74	
BT40-BSA62-225	1	62	90	225	200	50	58	2	16	74	
BT40-BSA72-165	2	72	110	165	140	60	60	2.4	19	85	
BT40-BSA72-225	2	72	110	225	200	60	60	2.4	19	85	100
BT40-BSA90-165	2	90	125	165	140	75	62	4	19	110	
BT40-BSA90-210	2	90	125	210	185	75	62	4	19	110	
BT50-BSA25-135	1	25	38	135	100	20	24	1	8	29	
BT50-BSA30-165	1	30	42	165	130	24	28	1.6	8	35	
BT50-BSA38-180	1	38	52	180	145	30	36	2.6	10	44	
BT50-BSA38-230	1	38	52	230	195	30	36	2.6	10	44	
BT50-BSA42-210	1	42	56	210	175	34	38	2	10	50	
BT50-BSA42-240	1	42	56	240	205	34	38	2	10	50	
BT50-BSA50-180	1	50	65	180	145	40	48	3	13	58	
BT50-BSA50-240	1	50	65	240	205	40	48	3	13	58	
BT50-BSA50-270	1	50	65	270	235	40	48	3	13	58	
BT50-BSA50-300	1	50	65	300	265	40	48	3	13	58	
BT50-BSA62-195	1	62	90	195	160	50	58	2	16	74	
BT50-BSA62-240	1	62	90	240	205	50	58	2	16	74	
BT50-BSA62-270	1	62	90	270	235	50	58	2	16	74	
BT50-BSA62-300	1	62	90	300	265	50	58	2	16	74	
BT50-BSA72-195	1	72	110	195	160	60	68	2.4	19	85	
BT50-BSA72-240	1	72	110	240	205	60	68	2.4	19	85	100
BT50-BSA72-285	1	72	110	285	250	60	68	2.4	19	85	
BT50-BSA72-320	1	72	110	320	285	60	68	2.4	19	85	
BT50-BSA90-210	1	90	125	210	175	75	74	4	19	110	
BT50-BSA90-250	1	90	125	250	215	75	76	4	19	110	
BT50-BSA90-300	1	90	125	300	265	75	76	4	19	110	
BT50-BSA105-195	2	105	160	195	160	90	76	3	25	130	
BT50-BSA105-285	1	105	160	285	250	90	76	3	25	130	150

-BT boring bar type A for square and throw away boring tool. Holder for rough boring.

-Throw away boring bar is sold separately. When match throw away boring bar, please check the DEG is 45 DEG and W

-捨棄式搪刀架為另購品。

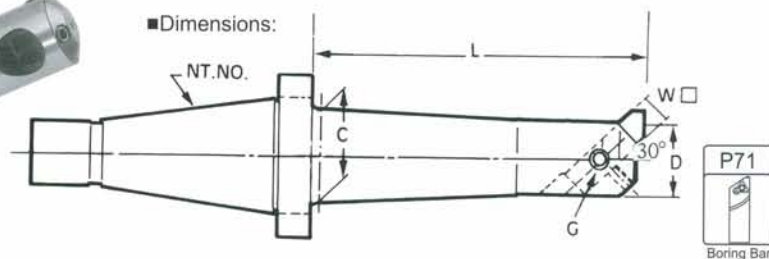
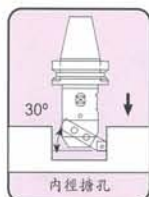
-訂購捨棄式搪刀架，請依據刀桿的內徑搪孔角度-45 DEG和W選擇。



BSA BORING BAR

NT30/NT40/NT50- 粗搪刀把

Holder for rough boring with angular setting square bit to axis.



(Unit: mm)

Model No.	Boring Range		D	C	L	W	G	Draw Bolt
	min.	max.						
NT30-BSA16-100	16	20	14	16	100	6	M6	1/2-12 M12x1.5P
NT30-BSA20-120	20	25	16	19	120	6	M6	
NT30-BSA25-135	25	38	20	24	135	8	M6	
NT30-BSA30-165	30	42	24	28	165	8	M6	
NT30-BSA38-180	38	52	30	36	185	10	M8	
NT30-BSA42-210	42	56	34	38	210	13	M8	
NT40-BSA16-100	16	20	14	16	100	6	M6	5/8-11 M16x2.0P
NT40-BSA20-120	20	25	16	19	120	6	M6	
NT40-BSA25-135	25	38	20	24	135	8	M6	
NT40-BSA30-165	30	42	24	28	165	8	M6	
NT40-BSA38-180	38	52	30	36	180	10	M8	
NT40-BSA42-210	42	56	34	38	210	10	M8	
NT40-BSA50-180	50	65	40	48	180	13	M10	
NT40-BSA50-240	50	65	40	48	240	13	M10	
NT40-BSA62-195	62	90	50	58	195	16	M10	
NT40-BSA62-270	62	90	50	58	270	16	M10	
NT40-BSA72-195	72	110	60	68	195	19	M12	
NT40-BSA72-285	72	110	60	68	285	19	M12	
NT40-BSA90-210	90	125	75	--	210	19	M12	
NT40-BSA90-300	90	125	75	--	300	19	M12	
NT40-BSA105-195	105	160	90	--	195	25	M16	
NT40-BSA105-285	105	160	90	--	285	25	M16	
NT50-BSA16-100	16	20	14	16	100	6	M6	1"-8 M24x3.0P
NT50-BSA20-120	20	25	16	19	120	6	M6	
NT50-BSA25-135	25	38	20	24	135	8	M6	
NT50-BSA30-165	30	42	24	28	165	8	M6	
NT50-BSA38-180	38	52	30	36	180	10	M8	
NT50-BSA38-230	38	52	30	36	230	10	M8	
NT50-BSA42-210	42	56	34	38	210	10	M8	
NT50-BSA42-240	42	56	34	38	240	10	M8	
NT50-BSA50-180	50	65	40	48	180	13	M10	
NT50-BSA50-240	50	65	40	48	240	13	M10	
NT50-BSA50-270	50	65	40	48	270	13	M10	
NT50-BSA62-195	62	90	50	58	195	16	M10	
NT50-BSA62-240	62	90	50	58	240	16	M10	
NT50-BSA62-270	62	90	50	58	270	16	M10	
NT50-BSA72-195	72	110	60	68	195	19	M12	
NT50-BSA72-240	72	110	60	68	240	19	M12	
NT50-BSA72-285	72	110	60	68	285	19	M12	
NT50-BSA90-210	90	125	75	80	210	19	M12	
NT50-BSA90-250	90	125	75	80	250	19	M12	
NT50-BSA90-300	90	125	75	76	300	19	M12	
NT50-BSA105-195	105	160	90	68	195	25	M16	
NT50-BSA105-285	105	160	90	74	285	25	M16	

-NT boring bar type A for square and throw away boring tool. Holder for rough boring.

-When ordering please specify the draw bolt for inch size or metric size.

-Throw away boring bar is sold separately. When match throw away boring bar, please check the DEG is 30 DEG and W.

-捨棄式搪刀架為另購品。

-請於訂購刀桿時。確認NT刀桿為公制牙或英制牙。

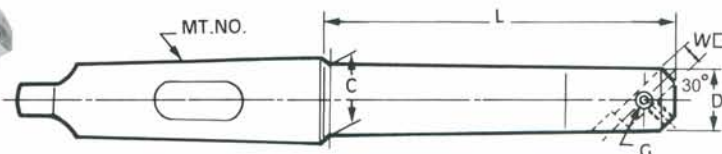
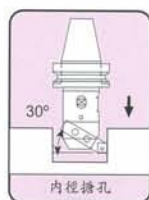
-訂購捨棄式搪刀架，請依據刀桿的內徑搪孔角度-30 DEG和W選擇。



MT3/MT4/MT5/MT6- 粗搪刀把

Holder for rough boring with angular setting square bit to axis.

■Dimensions:



(Unit: mm)

Model No.	Boring Range		D	C	L	W□	G
	min.	max.					
MT3-BSA16-100	16	20	14	16	100	6	M6
MT3-BSA20-120	20	25	16	19	120	6	M6
MT3-BSA25-135	25	38	20	24	135	8	M6
MT3-BSA30-165	30	42	24	28	165	8	M6
MT3-BSA38-180	38	52	30	36	180	10	M8
MT3-BSA42-210	42	56	34	38	210	10	M8
MT4-BSA16-100	16	20	14	16	100	6	M6
MT4-BSA20-120	20	25	16	19	120	6	M6
MT4-BSA25-135	25	38	20	24	135	8	M6
MT4-BSA30-165	30	42	24	28	165	8	M6
MT4-BSA38-180	38	52	30	36	180	10	M8
MT4-BSA42-210	42	56	34	38	210	10	M8
MT5-BSA16-100	16	20	14	16	100	6	M6
MT5-BSA20-120	20	25	16	19	120	6	M6
MT5-BSA25-135	25	38	20	24	135	8	M6
MT5-BSA30-165	30	42	24	28	165	8	M6
MT5-BSA38-180	38	52	30	36	180	10	M8
MT5-BSA42-210	42	56	34	38	210	10	M8
MT5-BSA50-180	50	65	40	48	180	13	M10
MT5-BSA50-240	50	65	40	48	240	13	M10
MT5-BSA62-195	62	90	50	58	195	16	M10
MT5-BSA62-270	62	90	50	58	270	16	M10
MT5-BSA72-195	72	110	60	68	195	19	M12
MT5-BSA72-285	72	110	60	68	285	19	M12
MT5-BSA90-210	90	125	75	--	210	19	M12
MT5-BSA90-300	90	125	75	--	300	19	M12
MT5-BSA105-195	105	160	90	--	195	25	M16
MT5-BSA105-285	105	160	90	--	285	25	M16
MT6-BSA16-100	16	20	14	16	100	6	M6
MT6-BSA20-120	20	25	16	19	120	6	M6
MT6-BSA25-135	25	38	20	24	135	8	M6
MT6-BSA30-165	30	42	24	28	165	8	M6
MT6-BSA38-180	38	52	30	36	180	10	M8
MT6-BSA42-210	42	56	34	38	210	10	M8
MT6-BSA50-180	50	65	40	48	180	13	M10
MT6-BSA50-240	50	65	40	48	240	13	M10
MT6-BSA62-195	62	90	50	58	195	16	M10
MT6-BSA62-270	62	90	50	58	270	16	M10
MT6-BSA72-195	72	110	60	68	195	19	M12
MT6-BSA72-285	72	110	60	68	285	19	M12
MT6-BSA90-210	90	125	75	--	210	19	M12
MT6-BSA90-300	90	125	75	--	300	19	M12
MT6-BSA105-195	105	160	90	--	195	25	M16
MT6-BSA105-285	105	160	90	--	285	25	M16

-Morse taper shank for tongue taper boring bar type A for square and throw away boring tool. Holder for rough boring.

-Throw away boring bar is sold separately. When match throw away boring bar, please check the DEG is 30 DEG and W□.

-捨棄式搪刀架為另購品。

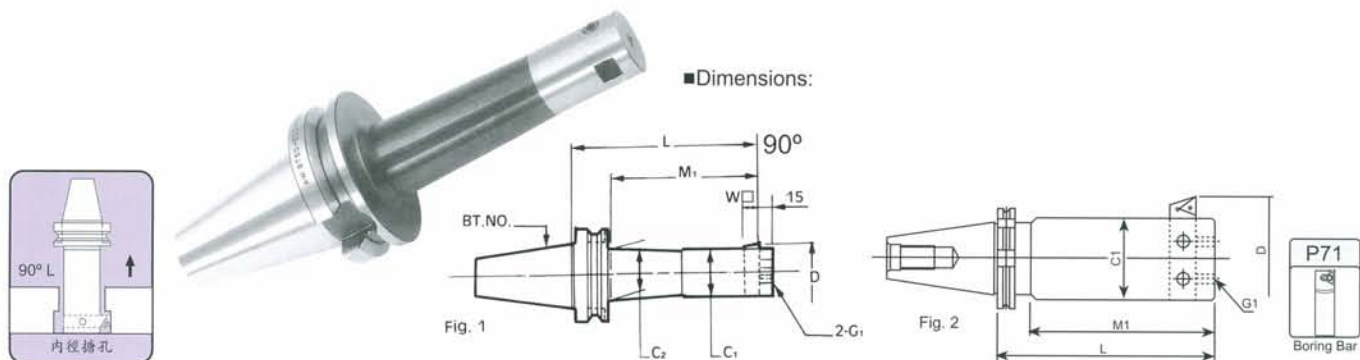
-訂購捨棄式搪刀架，請依據刀桿的內徑搪孔角度-30 DEG和W□選擇。



BSB BORING BAR

BT30/BT40/BT50- 粗搪刀把

Holder for rough boring with angular setting square bit to axis.



(Unit: mm)

Model No.	Fig	D		L	M1	C1	C2	W□	Tool Length	
		min.	max.							
BT30-BSB20-105	1	20	30	105	85	17	19	6	23	--
BT30-BSB25-120	1	25	38	120	100	20	24	8	29	--
BT30-BSB25-160	1	25	38	160	140	20	24	8	29	--
BT30-BSB30-150	1	30	42	150	130	24	28	8	35	--
BT30-BSB30-165	1	30	42	165	145	24	28	8	35	--
BT30-BSB30-210	1	30	42	210	190	24	28	8	35	--
BT30-BSB38-165	1	38	52	165	145	30	36	10	44	--
BT30-BSB50-165	1	50	65	165	145	40	48	13	58	--
BT30-BSB50-210	1	50	65	210	190	40	48	13	58	--
BT40-BSB25-135	1	25	38	135	110	20	24	8	22	35
BT40-BSB38-165	1	38	52	165	140	30	36	10	34	50
BT40-BSB50-165	1	50	65	165	140	40	48	13	45	60
BT40-BSB50-210	1	50	65	210	185	40	48	13	45	60
BT40-BSB62-165	1	62	90	165	140	50	54	16	56	80
BT40-BSB62-225	1	62	90	225	200	50	56	16	56	80
BT40-BSB72-165	2	72	110	165	140	60	60	19	66	95
BT40-BSB72-225	2	72	110	225	200	60	60	19	66	95
BT40-BSB90-165	2	90	125	165	140	75	75	19	82	110
BT40-BSB90-210	2	90	125	210	185	75	64	19	82	110
BT50-BSB25-135	1	25	38	135	100	20	24	8	22	35
BT50-BSB38-180	1	38	52	180	145	30	38	10	34	50
BT50-BSB38-230	1	38	52	230	195	30	38	10	34	50
BT50-BSB42-210	1	42	56	210	175	34	38	10	--	--
BT50-BSB42-240	1	42	56	240	205	34	38	10	--	--
BT50-BSB50-180	1	50	65	180	145	40	48	13	45	60
BT50-BSB50-240	1	50	65	240	205	40	48	13	45	60
BT50-BSB50-270	1	50	65	270	235	40	48	13	45	60
BT50-BSB50-300	1	50	65	300	265	40	48	13	45	60
BT50-BSB62-195	1	62	90	195	160	50	58	16	56	80
BT50-BSB62-240	1	62	90	240	205	50	58	16	56	80
BT50-BSB62-270	1	62	90	270	235	50	58	16	56	80
BT50-BSB62-300	1	62	90	300	265	50	58	16	56	80
BT50-BSB62-330	1	62	90	330	295	50	58	16	56	80
BT50-BSB72-195	1	72	110	195	160	60	68	19	66	95
BT50-BSB72-240	1	72	110	240	205	60	68	19	66	95
BT50-BSB72-285	1	72	110	285	250	60	68	19	66	95
BT50-BSB90-210	1	90	125	210	170	75	80	19	82	110
BT50-BSB90-250	1	90	125	250	215	75	80	19	82	110
BT50-BSB90-300	1	90	125	300	265	75	80	19	82	110
BT50-BSB105-195	2	105	160	195	160	90	--	25	97	140
BT50-BSB105-285	2	105	160	285	250	90	94	25	97	140

-BT boring bar type B for square and throw away boring tool. Holder for rough boring.

-Throw away boring bar is sold separately. When match throw away boring bar, please check the DEG is 90 DEG and W□.

-捨棄式搪刀架為另購品。

-訂購捨棄式搪刀架，請依據刀桿的內徑搪孔角度-90 DEG和W□選擇。

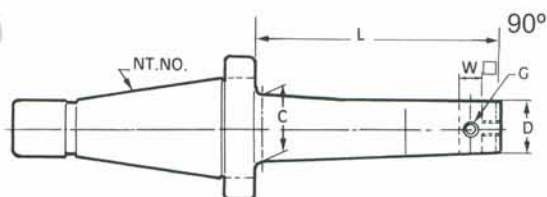
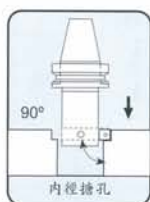


BSB BORING BAR

NT30/NT40/NT50- 粗搪刀把

Holder for rough boring with angular setting square bit to axis.

■Dimensions:



(Unit: mm)

Model No.	Boring Range		D	C	L	W□	G	Deaw Belt
	min.	max.						
NT30-BSB16-100	16	20	14	16	100	6	M6	1/2-12 M12x1.5P
NT30-BSB20-120	20	25	16	19	120	6	M6	
NT30-BSB25-135	25	38	20	24	135	8	M6	
NT30-BSB30-165	30	42	24	28	165	8	M6	
NT30-BSB38-180	38	52	30	36	180	10	M8	
NT30-BSB42-210	42	56	34	38	210	10	M8	
NT30-BSB50-180	50	65	40	48	180	13	M10	5/8-11 M16x2.0P
NT40-BSB16-100	16	20	14	16	100	6	M6	
NT40-BSB20-120	20	25	12	19	120	6	M6	
NT40-BSB25-135	25	38	20	24	135	8	M6	
NT40-BSB30-165	30	42	24	28	165	8	M8	
NT40-BSB38-180	38	52	30	36	180	10	M8	
NT40-BSB42-210	42	56	34	38	210	10	M8	
NT40-BSB50-180	50	65	40	48	180	13	M10	
NT40-BSB50-240	50	65	40	48	240	13	M10	
NT40-BSB62-195	62	90	50	58	195	16	M10	
NT40-BSB62-270	62	90	50	58	270	16	M10	
NT40-BSB72-195	72	110	60	68	195	19	M12	
NT40-BSB72-285	72	110	60	68	285	19	M12	
NT40-BSB90-210	90	125	75	--	210	19	M12	
NT40-BSB90-300	90	125	75	--	300	19	M12	
NT40-BSB105-195	105	160	90	--	285	25	M16	1"-8 M24x3.0P
NT40-BSB105-285	105	160	90	--	285	25	M16	
NT50-BSB16-100	16	20	14	16	100	6	M6	
NT50-BSB20-120	20	25	16	19	120	6	M6	
NT50-BSB25-135	25	38	20	24	135	8	M6	
NT50-BSB30-165	30	42	24	28	165	8	M6	
NT50-BSB38-180	38	52	30	36	180	10	M8	
NT50-BSB38-230	38	52	30	36	230	10	M8	
NT50-BSB42-210	42	56	34	38	210	10	M8	
NT50-BSB42-240	42	56	34	38	240	10	M8	
NT50-BSB50-180	50	65	40	48	180	13	M10	
NT50-BSB50-240	50	65	40	48	240	13	M10	
NT50-BSB50-270	50	65	40	48	270	13	M10	
NT50-BSB62-195	62	90	50	58	195	16	M10	
NT50-BSB62-240	62	90	50	58	240	16	M10	
NT50-BSB62-270	62	90	50	58	270	16	M10	
NT50-BSB72-195	72	110	60	68	195	19	M12	
NT50-BSB72-240	72	110	60	68	240	19	M12	
NT50-BSB72-285	72	110	60	68	285	19	M12	
NT50-BSB90-210	90	125	75	--	210	19	M12	
NT50-BSB90-250	90	125	75	--	250	19	M12	
NT50-BSB90-300	90	125	75	--	300	19	M12	
NT50-BSB105-195	105	160	90	--	195	25	M16	
NT50-BSB105-285	105	160	90	--	285	25	M16	

-NT boring bar type B for square and throw away boring tool. Holder for rough boring.

-When ordering please specify the draw bolt for inch size or metric size.

-捨棄式搪刀架為另購品。(請於訂購時，確認NT桿為英制刀或公制牙)

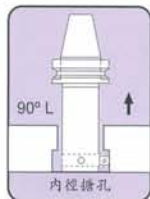
-訂購捨棄式搪刀架，請依據刀桿的內徑搪孔角度-90° DEG和W□選擇。



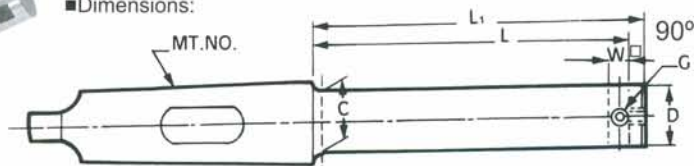
BSB BORING BAR

MT3/MT4/MT5/MT6- 粗搪刀把

Holder for rough boring with angular setting square bit to axis.



■Dimensions:



(Unit: mm)

Model No.	Boring Range		D	C	L	L1	W□	G
	min.	max.						
MT3-BSB16-100	16	20	14	16	100	110	6	M6
MT3-BSB20-120	20	25	16	19	120	130	6	M6
MT3-BSB25-135	25	38	20	24	135	145	8	M6
MT3-BSB30-165	30	42	24	28	165	175	8	M6
MT3-BSB38-180	38	52	30	36	180	190	10	M8
MT3-BSB42-210	42	56	34	38	210	220	10	M8
MT3-BSB50-180	50	65	40	48	180	190	13	M10
MT4-BSB16-100	16	20	14	16	100	110	6	M6
MT4-BSB20-120	20	25	16	19	120	130	6	M6
MT4-BSB25-135	25	38	20	24	135	145	8	M6
MT4-BSB30-165	30	42	24	28	165	175	8	M6
MT4-BSB38-180	38	52	30	36	180	190	10	M8
MT4-BSB42-210	42	56	34	38	210	220	10	M8
MT4-BSB50-180	50	65	40	48	180	190	13	M10
MT5-BSB16-100	16	20	14	16	100	110	6	M6
MT5-BSB20-120	20	25	16	19	120	130	6	M6
MT5-BSB25-135	25	38	20	24	135	145	8	M6
MT5-BSB30-165	30	42	24	28	165	175	8	M6
MT5-BSB38-180	38	52	30	36	180	190	10	M8
MT5-BSB42-210	42	56	34	38	210	220	10	M8
MT5-BSB50-180	50	65	40	48	180	190	13	M10
MT5-BSB50-240	50	65	40	48	240	250	13	M10
MT5-BSB62-195	62	90	50	58	195	205	16	M10
MT5-BSB62-270	62	90	50	58	270	280	16	M10
MT5-BSB72-195	72	110	60	68	195	205	19	M12
MT5-BSB72-285	72	110	60	68	285	295	19	M12
MT5-BSB90-210	90	125	75	75	210	220	19	M12
MT5-BSB90-300	90	125	75	75	300	310	19	M12
MT5-BSB105-195	105	160	95	95	195	205	25	M16
MT5-BSB105-285	105	160	95	95	285	295	25	M16
MT6-BSB16-100	16	20	14	16	100	110	6	M6
MT6-BSB20-120	20	25	16	19	120	130	6	M6
MT6-BSB25-135	25	38	20	24	135	145	8	M6
MT6-BSB30-165	30	42	24	28	165	175	8	M6
MT6-BSB38-180	38	52	30	36	180	190	10	M8
MT6-BSB42-210	42	56	34	38	210	220	10	M8
MT6-BSB50-180	50	65	40	48	180	190	13	M10
MT6-BSB50-240	50	65	40	48	240	250	13	M10
MT6-BSB62-195	62	90	50	58	195	205	16	M10
MT6-BSB62-270	62	90	50	58	270	280	16	M10
MT6-BSB72-195	72	110	60	68	195	205	19	M12
MT6-BSB72-285	72	110	60	68	285	295	19	M12
MT6-BSB90-210	90	125	75	75	210	220	19	M12
MT6-BSB90-300	90	125	75	75	300	310	19	M12
MT6-BSB105-195	105	160	95	95	195	205	25	M16
MT6-BSB105-285	105	160	95	95	285	295	25	M16

-Morse taper shank for tongue taper boring bar type B for square and throw away boring tool. Holder for rough boring.

-Throw away boring bar is sold separately when match throw away boring bar, please check the DEG IS 90 DEG AND W□.

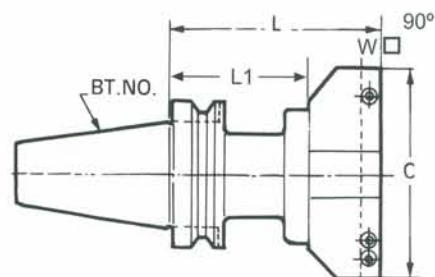
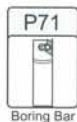
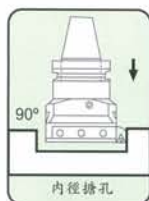
-捨棄式搪刀架為另購品。請於訂購刀桿時。

-訂購捨棄式搪刀架，請依據刀桿的內徑搪孔角度-90° DEG和W□選擇。



BST LARGE SIZE BORING BAR & BORING BLOCK

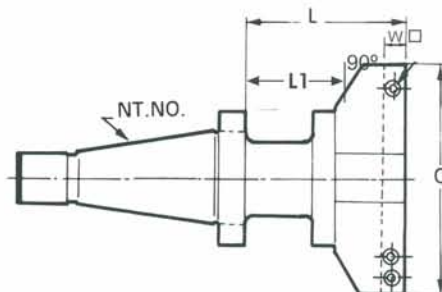
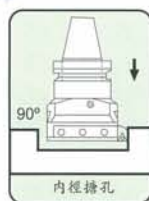
BT50- 大孔徑粗搪刀柄



Model No.	L1	L
BT50-BST100	100	150
BT50-BST150	150	200
BT50-BST200	200	250
BT50-BST250	250	300
BT50-BST300	300	350
BT50-BST350	350	400

- BT taper for large size boring bar. The boring range from 150~600mm.
- BST tool holder is not including block bar. The block bar is sold separately.
- BT50大孔徑粗搪刀桿。其搪孔範圍從150~600mm。
- BST捨刀桿需搭配BST刀盤。BST刀盤為另購品。

NT50- 大孔徑粗搪刀柄

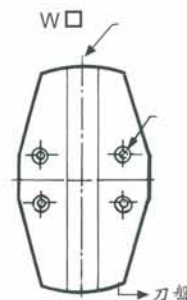


Model No.	L1	L	Draw Bolt
NT50-BST100	100	150	1"x8 M24x3.0P
NT50-BST150	150	200	
NT50-BST200	200	250	
NT50-BST250	250	300	
NT50-BST300	300	350	
NT50-BST350	350	400	

- NT taper for large size boring bar. The boring range from 150~600mm.
- When ordering, please specify the draw bolt for inch size or metric size.
- BST tool holder is not including block bar. The block bar is sold separately.
- NT50大孔徑粗搪刀桿。其搪孔範圍從150~600mm。
- 請於訂購刀桿時。確認NT刀桿為公制牙或英制牙。
- BST捨刀桿需搭配BST刀盤。BST刀盤為另購品。

BST BORING BLOCK BST- 刀盤

Model No.	Boring Capacity		W □	
	min	max		
BST-125	150	200	19	25
BST-150	170	250	19	25
BST-200	220	300	19	25
BST-250	270	350	19	25
BST-300	320	450	19	25
BST-400	450	600	19	25



- Throw away boring bar is sold separately. When match throw away boring bar, please check the DEG is 90 DEG and W □.
- 捨棄式搪刀架為另購品。
- 訂購捨棄式搪刀架，請依據刀桿的內徑搪孔角度-90 DEG和W □選擇。

TBS/TSBS/SBS- 捨棄式搪刀架

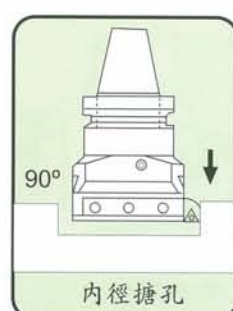
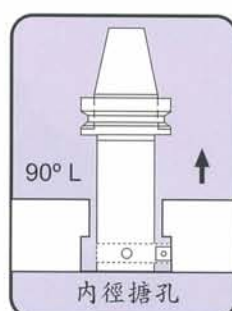
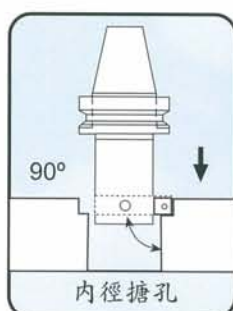
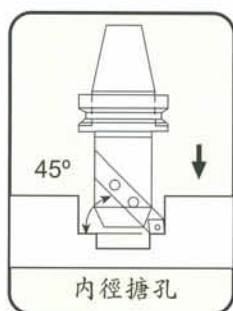
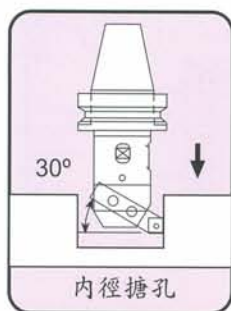



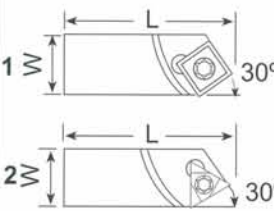
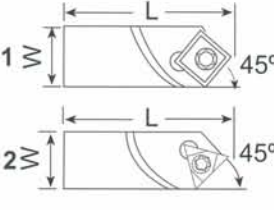
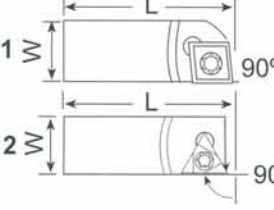

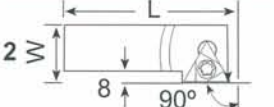


Fig	Shape	Fig-1 Ordering code	Insert 	Fig-2 Ordering code	Insert 	Fig-2 Ordering code	Insert 	Dimensions, mm		
								H	W	L
	TBS306	CC..0602..	TSBS306	TC..0902..	SBS306	TP..0902..	6	6	55	
	TBS308	CC..0602..	TSBS308	TC..0902..	SBS308	TP..0902..	8	8	55	
	TBS310	CC..0602..	TSBS310	TC..0902..	SBS310	TP..0902..	10	10	65	
	TBS313	CC..09T3..	TSBS313	TC..1102..	SBS313	TP..1103..	13	13	80	
	TBS316	CC..09T3..	TSBS316	TC..16T3..	SBS316	TP..1103..	16	16	120	
	TBS319	CC..1204..	TSBS319	TC..16T3..	SBS319	TP..1603..	19	19	140	
	TBS325	CC..1204..	TSBS325	TC..16T3..	SBS325	TP..1603..	25	25	150	
	TBS406	CC..0602..	TSBS406	TC..0902..	SBS406	TP..0902..	6	6	55	
	TBS408	CC..0602..	TSBS408	TC..0902..	SBS408	TP..0902..	8	8	55	
	TBS410	CC..0602..	TSBS410	TC..0902..	SBS410	TP..0902..	10	10	65	
	TBS413	CC..09T3..	TSBS413	TC..1102..	SBS413	TP..1103..	13	13	80	
	TBS416	CC..09T3..	TSBS416	TC..16T3..	SBS416	TP..1103..	16	16	120	
					SBS416B	TP..1103..	16	16	120	
	TBS419	CC..1204..	TSBS419	TC..16T3..	SBS419	TP..1603..	19	19	140	
TBS425	CC..1204..	TSBS425	TC..16T3..	SBS425	TP..1603..	25	25	150		
	TBS906	CC..0602..	TSBS906	TC..0902..	SBS906	TP..0902..	6	6	55	
	TBS908	CC..0602..	TSBS908	TC..0902..	SBS908	TP..0902..	8	8	55	
	TBS910	CC..0602..	TSBS910	TC..0902..	SBS910	TP..0902..	10	10	65	
	TBS913	CC..09T3..	TSBS913	TC..1102..	SBS913	TP..1103..	13	13	80	
	TBS916	CC..09T3..	TSBS916	TC..16T3..	SBS916	TP..1103..	16	16	120	
					SBS916B	TP..1103..	16	16	120	
	TBS919	CC..1204..	TSBS919	TC..16T3..	SBS919	TP..1603..	19	19	140	
TBS925	CC..1204..	TSBS925	TC..16T3..	SBS925	TP..1603..	25	25	150		
	TBS908L	CC..0602..					8	8	55	
	TBS910L	CC..0602..					10	10	65	
	TBS913L	CC..09T3..					13	13	80	
	TBS916L	CC..09T3..					16	16	120	
	TBS919L	CC..1204..					19	19	140	
					BSB916	TP..1103..	16	16	150	
					BSB920	TP..1103..	20	20	150	

Insert 	Screw 	Wrench 
CC..0602..	MS2506A	TF9
CC..09T3..	MS4011A	TF15
CC..1204..	MS5011A	TF20

Insert 	Screw 	Wrench 
TC..0902..	MS2206A	TF7
TC..1102..	MS2506A	TF9
TC..16T3..	MS4011A	TF15

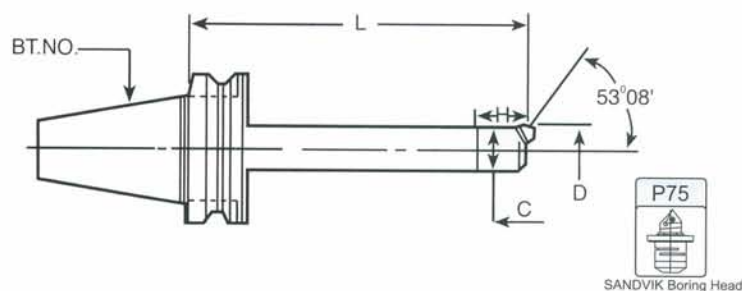
Insert 	Screw 	Wrench 
TP..0902..	MS2506A	TF9
TP..1102..	MS3008A	TF9
TP..16T3..	MS4011A	TF15

-Boring cutter replaceable of insert. The tip is sold separately.



BCA MICRO BORING BAR

BT30/BT40- 微調精磨刀把



(Unit: mm)

Model No.	Boring Range D		L	H	C	Cartridge
	Min.	Max.				
BT30-BCA26-150	26	30	150	35	23	L148C-31
BT30-BCA26-180	26	30	180	35	23	L148C-31
BT30-BCA30-160	30	34	160	40	26	L148C-31
BT30-BCA30-210	30	34	210	40	26	L148C-31
BT30-BCA33-165	33	38	165	40	29	L148C-32
BT30-BCA33-210	33	38	210	40	29	L148C-32
BT30-BCA38-165	38	43	165	40	33	L148C-32
BT30-BCA38-210	38	43	210	40	33	L148C-32
BT30-BCA43-165	43	52	165	60	38	L148C-33
BT30-BCA43-210	43	52	210	60	38	L148C-33
BT30-BCA52-180	52	61	180	60	47	L148C-33
BT30-BCA52-240	52	61	240	60	47	L148C-33
BT30-BCA61-180	61	70	180	60	56	L148C-33
BT30-BCA61-240	61	70	240	60	56	L148C-33
BT30-BCA61-330	61	70	330	60	56	L148C-33
BT30-BCA70-180	70	85	180	70	65	L148C-34
BT30-BCA70-240	70	85	240	70	65	L148C-34
BT30-BCA70-330	70	85	330	70	65	L148C-34
BT40-BCA26-150	26	30	150	35	23	L148C-31
BT40-BCA26-180	26	30	180	35	23	L148C-31
BT40-BCA30-160	30	34	160	40	26	L148C-31
BT40-BCA30-210	30	34	210	40	26	L148C-31
BT40-BCA33-165	33	38	165	40	29	L148C-32
BT40-BCA33-210	33	38	210	40	29	L148C-32
BT40-BCA38-165	38	43	165	40	33	L148C-32
BT40-BCA38-210	38	43	210	40	33	L148C-32
BT40-BCA43-165	43	52	165	40	38	L148C-33
BT40-BCA43-210	43	52	210	40	38	L148C-33
BT40-BCA52-180	52	61	180	40	47	L148C-33
BT40-BCA52-240	52	61	240	40	47	L148C-33
BT40-BCA61-180	61	70	180	40	56	L148C-33
BT40-BCA61-240	61	70	240	40	56	L148C-33
BT40-BCA70-180	70	85	180	70	65	L148C-34
BT40-BCA70-240	70	85	240	70	65	L148C-34
BT40-BCA85-180	85	100	180	70	80	L148C-34
BT40-BCA85-240	85	100	240	70	80	L148C-34
BT40-BCA100-165	100	115	165	70	95	L148C-34
BT40-BCA100-240	100	115	240	70	95	L148C-34

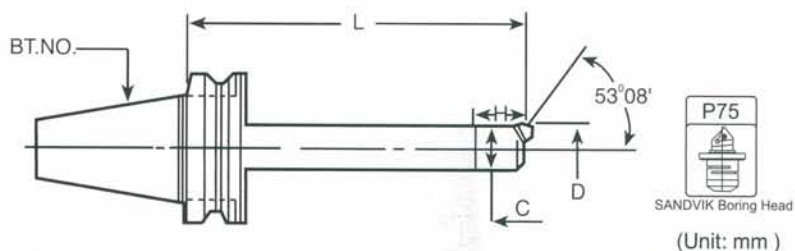
-BT type micro tool holder for SANDVIK FINE BORING HEAD.

-BCA tool holder not including SANDVIK boring head. SANDVIK BORING HEAD is sold separately.

--BT微調精磨刀把，搭配SANDVIK精磨頭使用。SANDVIK精磨頭為另購品。

BCA/MBT MICRO BORING BAR & SQUARE MICRO BORING BAR

BT50- 微調精搪刀把



(Unit: mm)

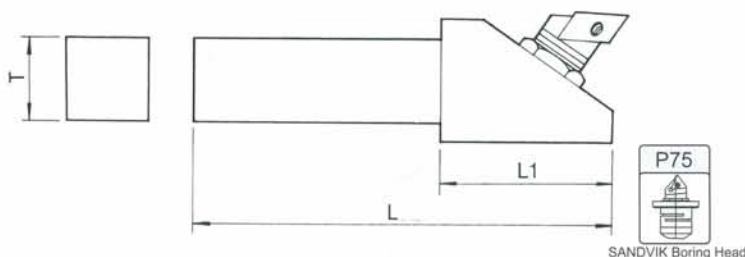
Model No.	Boring Range D		L	H	C	Cartridge
	Min.	Max.				
BT50-BCA26-150	26	30	150	35	23	L148C-31
BT50-BCA26-180	26	30	180	35	23	L148C-31
BT50-BCA30-160	30	34	160	40	26	L148C-31
BT50-BCA30-210	30	34	210	40	26	L148C-31
BT50-BCA33-165	33	38	165	40	29	L148C-32
BT50-BCA33-210	33	38	210	40	29	L148C-32
BT50-BCA38-165	38	43	165	40	33	L148C-32
BT50-BCA38-210	38	43	210	40	33	L148C-32
BT50-BCA43-165	43	52	165	60	38	L148C-33
BT50-BCA43-210	43	52	210	60	38	L148C-33
BT50-BCA52-180	52	61	180	60	47	L148C-33
BT50-BCA52-240	52	61	240	60	47	L148C-33
BT50-BCA61-180	61	70	180	60	56	L148C-33
BT50-BCA61-240	61	70	240	60	56	L148C-33
BT50-BCA61-330	61	70	330	60	56	L148C-33
BT50-BCA70-180	70	85	180	70	65	L148C-34
BT50-BCA70-240	70	85	240	70	65	L148C-34
BT50-BCA70-330	70	85	330	70	65	L148C-34
BT50-BCA85-180	85	100	180	70	80	L148C-34
BT50-BCA85-240	85	100	240	70	80	L148C-34
BT50-BCA85-330	85	100	330	70	80	L148C-34
BT50-BCA100-165	100	115	165	70	95	L148C-34
BT50-BCA100-240	100	115	240	70	95	L148C-34
BT50-BCA100-315	100	115	315	70	95	L148C-34
BT50-BCA115-165	115	130	165	50	110	L148C-34
BT50-BCA115-240	115	130	240	50	110	L148C-34
BT50-BCA115-315	115	130	315	50	110	L148C-34
BT50-BCA130-165	130	145	165	50	125	L148C-34
BT50-BCA130-240	130	145	240	50	125	L148C-34
BT50-BCA145-165	145	160	165	50	140	L148C-34
BT50-BCA145-240	145	160	240	50	140	L148C-34

-BT type micro tool holder for SANDVIK FINE BORING HEAD.

-BCA tool holder not including SANDVIK boring head. SANDVIK BORING HEAD is sold separately.

-BT微調精搪刀把，搭配SANDVIK精搪頭使用。SANDVIK精搪頭為另購品。

MBT16/MBT19/MBT25- 方型精搪刀桿



(Unit: mm)

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

-SQUARE type micro tool holder for SANDVIK FINE BORING HEAD.

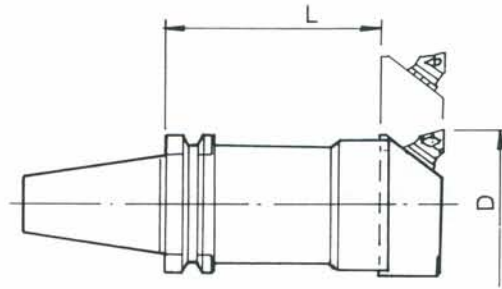
-BCA tool holder not including SANDVIK boring head. SANDVIK BORING HEAD is sold separately.

-SQUARE方型精搪刀桿，搭配SANDVIK精搪頭使用。SANDVIK精搪頭為另購品。



BCT LARGE MICRO BORING BAR WITH SLIDE BLOCK

BT50- 大孔徑滑板式精搪刀桿

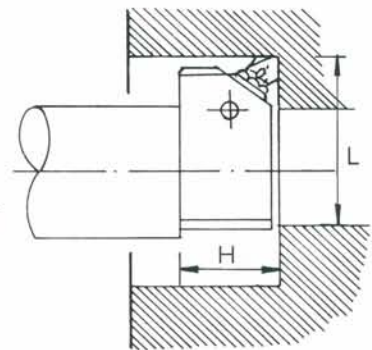
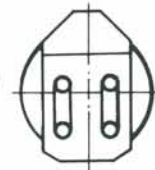
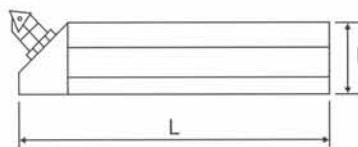


TAPER NO.	L
BT50-BCT100	100
BT50-BCT150	150
BT50-BCT200	200
BT50-BCT250	250
BT50-BCT300	300



- BCT tool holder not including BCT BORING BLOCK and SANDVIK BORING HEAD.
- BCT刀桿需搭配BCT刀盤和SANDVIK精搪頭。
- BCT刀盤和SANDVIK精搪頭為另購品。

BCT BORING BLOCK-BCT- 刀盤



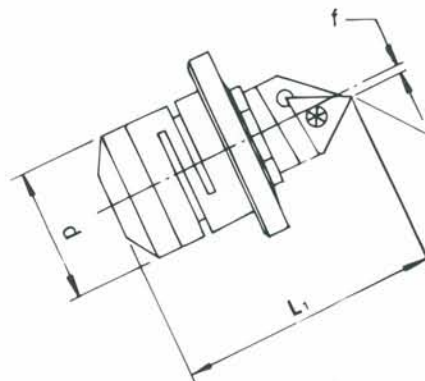
Model No.	L	H	Boring Capacity		SANDVIK Boring Head
			Min.	Max.	
BCT-100	100	45	115	145	L148C-33
BCT-125	125	45	140	180	L148C-33
BCT-150	150	45	165	205	L148C-33
BCT-175	175	45	190	230	L148C-33
BCT-200	200	45	215	260	L148C-33
BCT-225	225	45	240	280	L148C-33
BCT-250	250	45	265	325	L148C-33
BCT-300	300	45	315	385	L148C-33
BCT-350	350	45	365	435	L148C-33

- BCT BORING BLOCK is not including SANDVIK BORING HEAD and TIPS.
- SANDVIK精搪頭和刀片為另購品。



SANDVIK T-MAX U FINE BORING UNIT & ADAPTER / TSA

SANDVIK- 精搪頭 (瑞典)



(Unit: mm)

Model No.		d	L1	f	Dmin	Part, screw	Insert
R/L 148C-31-0602	06	16	15.5	0.2	24.8	5513 020-03	CCMT060204
R/L 148C-32-0902	09	20	33.7	0.9	32.5	5513 020-05	TCMT090204
R/L 148C-33-1102	11	22	45.3	1.1	42.0	5513 020-03	TCMT110204
R/L 148C-34-16T3	16	32	62.3	1.2	59.4	5513 020-10	TCMT16T304

-For working material, the inserts divided the most common use 3 types: 1.IRON: KC850, 2.CAST IRON: KC5010, 3.ALUM:KC313.

-刀片區別於加工三種材質：1.鐵: KC850, 2.鑄鐵: KC5010, 3.鋁:KC313.

-When ordering: Please mark material code.訂購時請註明材質編號

Example/例
CCMT 120408 KC850

-SANDVIK T-MAX FINE BORING UNIT ARE PRECISION TOOL.

Features:

- 1.Can be mounted in blind holes.
- 2.Adjustment is made from the front.
- 3.The unites are self-locking, i.e there is no need for unlocking or locking after setting.
- 4.T-MAX-U screw clamping.
- 5.The SANDVIK BORING HEAD is NOT including inserts. The tips are sold separately.

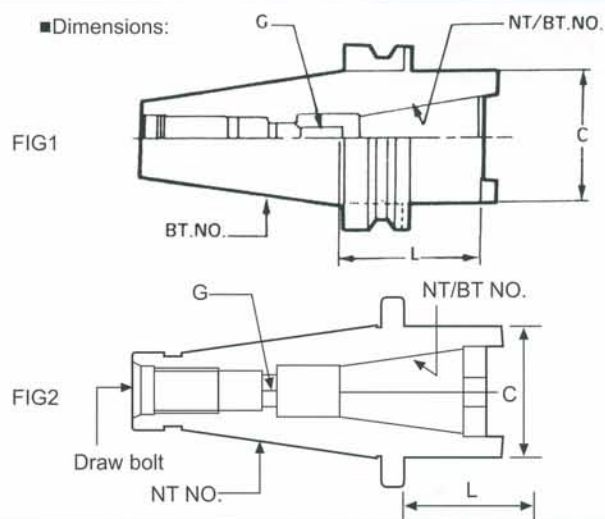
特色：

- 1.能在盲孔內安裝。
- 2.從前端作調整。
- 3.精搪頭為自鎖。在設置前無需解鎖。調整後也無需鎖定。
- 4.精搪頭為螺絲鎖緊。

TSA ADAPTER- 轉接器



■Dimensions:



(Unit: mm)

Model No.	G	L	C	FIG	Draw bolt
BT50-TSA40-75	M16 x 2.0	75	70	1	
NT40-TSA30-75	M12x1.75	75	60	2	5/8"-11 or M16X2.0P
NT50-TSA30-75	M12x1.75	75	60	2	1"-8 or M24X3.0P
NT50-TSA40-75	M16 x 2.0	75	70	2	

-Use the adapter to switch the taper shank.

-When ordering please specify the NT shank draw bolt is inch size or metric size.

-使用轉接器作錐度轉換。

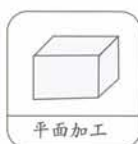
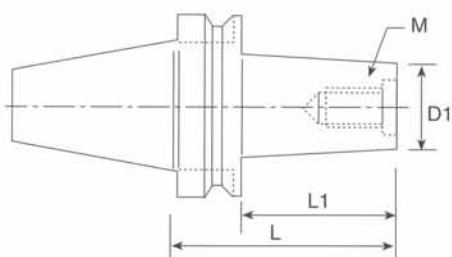
-請於訂購刀桿時，確認NT刀桿為英制或公制。



AMD SCREW-IN ENDMILL ARBOR

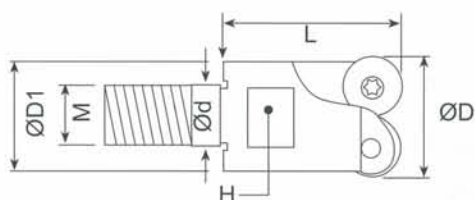
MAS403 BT / NT SERIES



BT40/BT50- 圓刀銑刀把

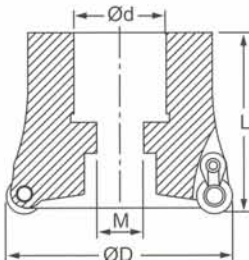


Model No.	M	D1	L1	L
BT40-AMD122-80	8	13	53	80
BT40-AMD122-100	8	13	73	100
BT40-AMD123-80	6	11	53	80
BT40-AMD162-80	8	13	53	80
BT40-AMD162-100	8	13	73	100
BT40-AMD202-80	10	18	53	80
BT40-AMD202-100	10	18	73	100
BT40-AMD253-80	12	21	53	80
BT40-AMD253-100	12	21	73	100
BT40-AMD354-80	16	33	53	80
BT40-AMD354-100	16	33	73	100
BT50-AMD122-100	8	13	62	100
BT50-AMD122-120	8	13	82	120
BT50-AMD162-100	8	13	62	100
BT50-AMD162-120	8	13	82	120
BT50-AMD202-100	10	18	62	100
BT50-AMD202-120	10	18	82	120
BT50-AMD253-100	12	21	62	100
BT50-AMD253-120	12	21	82	120
BT50-AMD354-100	16	33	62	100
BT50-AMD354-120	16	33	82	120

CORNER ROUNDING END MILLS- 圓刀銑刀把



Ordering code	Dimensions, mm				Teeth	Inserts	Screw 	Wrench 
	ØD	M	Ød	L				
RD051-D123-MD11-18	12	6	6.5	18	3	RD..0501..	MS2004A	TF6
RD07T-D122-MD14-23	12	8	8.5	23	2	RD..07T1..	MS2206C	TF7
RD072-D162-MD14-23	16	8	8.5	23	2	RD..0702..	MS2506A	TF9
RD072-D172-MD14-23	17	8	8.5	23	2			
RD072-D203-MD18-30	20	10	10.5	30	3			
RD072-D213-MD18-30	21	10	10.5	30	3			
RD072-D254-MD23-35	25	12	12.5	35	4			
RD072-D264-MD23-35	26	12	12.5	35	4			
RD072-D356-MD29-43	35	16	17	43	6			
RD103-D202-MD18-30	20	10	10.5	30	2	RD..1003..	MS3507A	TF15
RD103-D212-MD18-30	21	10	10.5	30	2	RD..1003..	MS3509B	
RD103-D253-MD23-35	25	12	12.5	35	3			
RD103-D263-MD23-35	26	12	12.5	35	3			
RD103-D354-MD29-43	35	16	17	43	4			

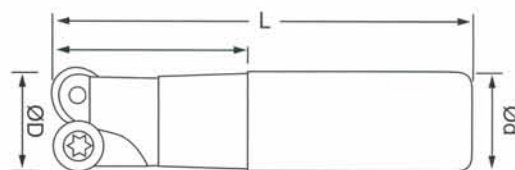
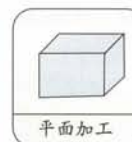
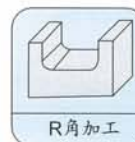


Ordering code	Dimensions, mm				Teeth	Inserts	Screw	Clamp	Screw	Wrench
	ØD	M	Ød	L						
RD103-D504-22.0	50	11	22.0	50	4	RD..1003..	MS3509B	MC35141	MS3509A	TF15
RD103-D504-22.0	50	11	22.0	50	5					
RD103-D635-25.4	63	13	25.4	50	5					
RD103-D636-25.4	63	13	25.4	50	6					



CORNER ROUNDING END MILLS (RD)

RD- 圓刀銑刀

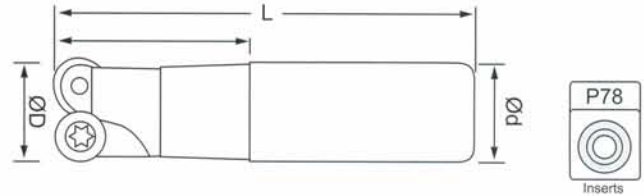


Ordering code	Dimensions, mm				Teeth	Inserts	Screw	Wrench
	D	L	d	L1				
RD051-D092-S08-100	9	100	8	12	2	RD..0501..	MS2004A	TF6
RD051-D102-S10-100	10	100	10	18	2			
RD051-D112-S10-100	11	100	10	15	2			
RD051-D122-S12-100	12	100	12	22	2			
RD051-D123-S12-100	12	100	12	22	3			
RD051-D132-S12-100	13	100	12	18	2			
RD051-D133-S12-100	13	100	12	18	3			
RD051-D164-S16-150	16	150	16	30	4			
RD051-D164-S16-200	16	200	16	30	4			
RD051-D174-S16-150	17	150	16	20	4			
RD051-D174-S16-200	17	200	16	20	4			
RD07T-D122-S12-120	12	120	12	35	2	RD..07T1..	MS2205C	TF7
RD07T-D122-S16-120	12	120	16	35	2			
RD072-D162-S16-150	16	150	16	35	2	RD..0702..	MS2506A	TF9
RD072-D162-S16-200	16	200	16	35	2			
RD072-D172-S16-150	17	150	16	20	2			
RD072-D172-S16-200	17	200	16	20	2			
RD072-D203-S20-150	20	150	20	35	3			
RD072-D203-S20-200	20	200	20	35	3			
RD072-D213-S20-150	21	150	20	25	3			
RD072-D213-S20-150	21	200	20	25	3			
RD072-D254-S25-150	25	150	25	40	4			
RD072-D254-S25-200	25	200	25	40	4			
RD072-D254-S25-250	25	250	25	40	4			
RD072-D254-S25-300	25	300	25	40	4			
RD072-D255-S25-150	25	150	25	40	5			
RD072-D255-S25-200	25	200	25	40	5			
RD072-D255-S25-250	25	250	25	40	5			
RD072-D255-S25-300	25	300	25	40	5			
RD072-D264-S25-150	26	150	25	25	4			
RD072-D264-S25-200	26	200	25	25	4			
RD072-D264-S25-250	26	250	25	25	4			
RD072-D264-S25-300	26	300	25	25	4			
RD072-D265-S25-150	26	150	25	25	5			
RD072-D265-S25-200	26	200	25	25	5			
RD072-D265-S25-250	26	250	25	25	5			
RD072-D265-S25-300	26	300	25	25	5			



CORNER ROUNDING END MILLS (RD)

RD- 圓刀銑刀



Ordering code	Dimensions, mm				Teeth	Inserts	Screw	Clamp	Screw	Wrench
	D	L	d	L1						
RD103-D202-S20-150	20	150	20	40	2	RD..1003..	MS3507A	--	--	TF15
RD103-D202-S20-200	20	200	20	40	2					
RD103-D212-S20-150	21	150	20	25	2					
RD103-D212-S20-200	21	200	20	25	2					
RD103-D253-S25-150	25	150	25	40	3	RD..1003..	MS3509B	--	--	TF15
RD103-D253-S25-200	25	200	25	40	3					
RD103-D253-S25-250	25	250	25	40	3					
RD103-D263-S25-150	26	150	25	25	3					
RD103-D263-S25-200	26	200	25	25	3					
RD103-D263-S25-250	26	250	25	25	3					
RD103-D263-S25-300	26	300	25	25	3					
RD103-D303-S25-150	30	150	25	26	3					
RD103-D303-S25-200	30	200	25	26	3	RD..1003..	MS3509B	MC35141	MS3509A	TF15
RD103-D303-S25-250	30	250	25	26	3					
RD103-D354-S32-150	35	150	32	40	4					
RD103-D354-S32-200	35	200	32	40	4					
RD103-D354-S32-250	35	250	32	40	4					
RD103-D354-S32-300	35	300	32	40	4					

INSERTS FOR CORNER ROUNDING END MILLS- 刀片

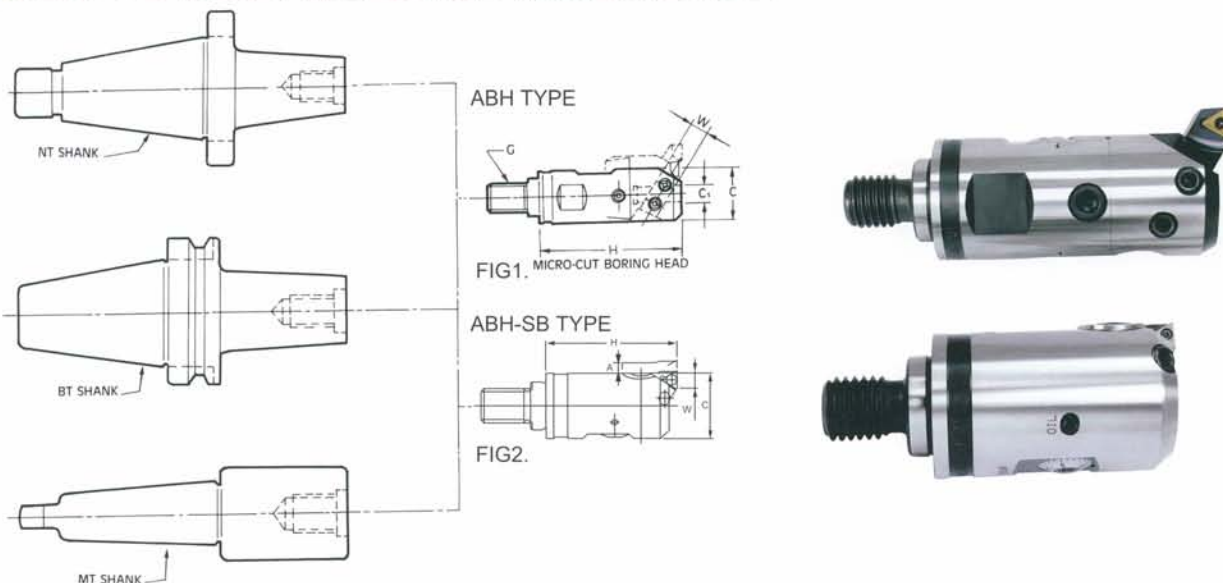


Safety	Ordering code	Dimensions, mm			
		lc	s	d1	d2
	RDHW 0501 MO EN-91	5.0	1.50	2.2	
	RDHW 0711 MO EN-91	7.0	1.99	2.5	3.8
	RDHW 0702 MO EN-91	7.0	2.38	2.8	3.8
	RDHW 1003 MO EN	10.0	3.18	4.4	6.2



ABH / ABH-SB BORING HEAD UNIT

ABH18/ABH23/ABH30/ABH40/ABH63/ABH83-ABH- 微調精搪頭-FIG1. ABH-SB18/SB23/SB30/SB40/SB50-FIG2.



ABH18/ABH23/ABH30/ABH40/ABH63/ABH83-ABH-FIG.1- 微調精搪頭-日製



Model No.	C	G	H	W	Boring Range	
					Min	Max
ABH18(Fine)精搪頭	18	M10xP1.5	50	6	22	32
ABH23(Fine)精搪頭	23	M12xP1.75	65	8	28	46
ABH30(Fine)精搪頭	30	M16xP2.0	80	10	36	60
ABH40(Fine)精搪頭	40	M18xP2.5	90	13	46	80
ABH63(Fine)精搪頭	63	M25xP2.0	97	16	70	130
ABH83(Fine)精搪頭	83	-	100	16	90	160

ABH Boring Head -Fig.1: Throw away cutter is sold separately.

ABH Boring Head: Made in Japan(KKS)

Adjust Graduation: 0.05mm

ABH精搪頭Fig.1: 捨棄式搪刀為另購品

ABH精搪頭: 日製(KKS)

調整刻度: 0.05mm

ABH-SB18/SB-30/SB-40/SB-63/SB-83-ABH-FIG.2- 微調精搪頭-日製



Model No.	A	C	G	H	W	Boring Range		Inserts
						Min	Max	
ABH-SB18(Fine)精搪頭	2.5	18	M10xP1.5	40	8.2	20	25	TPGX08
ABH-SB23(Fine)精搪頭	3.5	23	M12xP1.75	50		25	32	
ABH-SB30(Fine)精搪頭	5	30	M16xP2.0	60		32	42	or TPGT08
ABH-SB40(Fine)精搪頭	6.5	40	M18xP2.5	70		42	55	
ABH-SB50(Fine)精搪頭	9	50	M25xP2.0	72		55	73	

ABH-SB Type -Fig.2: Coolant Type.

ABH-SB Type -Fig.2: Made in Japan(KKS)

Adjust Graduation: 0.01mm

ABH-SB精搪頭Fig.2: SB Type具有中心出水功能

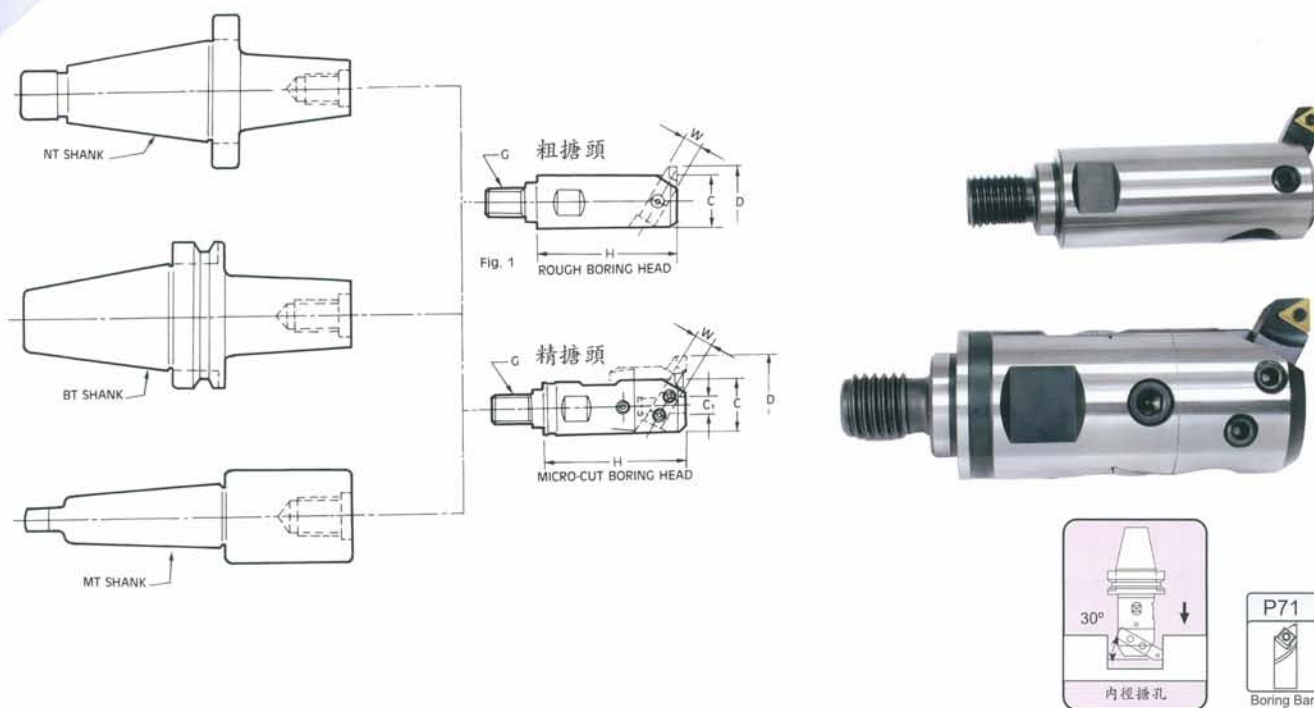
ABH-SB精搪頭: 日製(KKS)

調整刻度: 0.01mm



ABH FINE / ROUGH BORING HEAD UNIT

ABH18/ABH23/ABH30/ABH40/ABH63/ABH83-ABH- 微調精搪頭



ROUGH BORING HEAD-FIG.1- 粗搪頭-台製



Model No.	C	G	H	W	Boring Range	
					Min	Max
ABH18(Rough-TAIWAN)	18	M10xP1.5	40	6	22	32
ABH23(Rough-TAIWAN)	23	M12xP1.75	50	8	28	46
ABH30(Rough-TAIWAN)	30	M16xP2.0	60	10	36	60
ABH40(Rough-TAIWAN)	40	M18xP2.5	70	13	46	80
ABH63(Rough-TAIWAN)	63	M25xP2.0	72	16	70	130
ABH83(Rough-TAIWAN)	83		100	16	90	160

ABH Rough Boring Head -Fig.1: Throw away cutter is sold separately.

ABH粗搪頭-Fig.1: 捨棄式搪刀為另購品

FINE BORING HEAD FIG.2- 微調精搪頭-台製



Model No.	C	G	H	W	Boring Range	
					Min	Max
ABH18(Fine-TAIWAN)	18	M10xP1.5	50	6	22	32
ABH23(Fine-TAIWAN)	23	M12xP1.75	65	8	28	46
ABH30(Fine-TAIWAN)	30	M16xP2.0	80	10	36	60
ABH40(Fine-TAIWAN)	40	M18xP2.5	90	13	46	80
ABH63(Fine-TAIWAN)	63	M25xP2.0	97	16	70	130

ABH Fine Boring Head -Fig.2: Throw away cutter is sold separately.

ABH Boring Head: Made in Taiwan

Adjust Graduation: 0.01mm

ABH精搪頭-Fig.2: 捨棄式搪刀為另購品

ABH精搪頭: 台製

調整刻度: 0.01mm

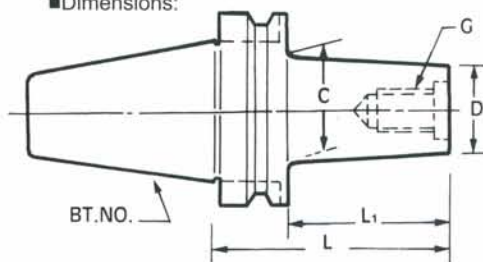


ABH MICRO BORING BAR

BT30/BT40/BT50- 微調精磨刀桿



■Dimensions:



P79-80



ABH/ABH-SB
Boring Head
(Unit: mm)

Model No.	Boring Range		D	C	L1	L	G
	min	max					
BT30-ABH18-60	22	32	18	24	40	60	M10 x P1.5
BT30-ABH18-100	22	32	18	24	80	100	M10 x P1.5
BT30-ABH23-80	28	46	23	29	60	80	M12 x P1.75
BT30-ABH23-120	28	46	23	29	100	120	M12 x P1.75
BT30-ABH30-80	36	60	30	36	60	80	M16 x P2
BT30-ABH30-130	36	60	30	36	110	130	M16 x P2
BT30-ABH40-80	46	80	40	48	60	80	M18 x P2.5
BT30-ABH40-150	46	80	40	48	130	150	M18 x P2.5
BT30-ABH63-80	70	130	63	--	60	80	M25 x P2
BT30-ABH63-150	70	130	63	--	130	150	M25 x P2
BT40-ABH18-60	22	32	18	24	35	60	M10 x P1.5
BT40-ABH18-80	22	32	18	24	55	80	M10 x P1.5
BT40-ABH18-100	22	32	18	24	75	100	M10 x P1.5
BT40-ABH23-80	28	46	23	29	55	80	M12 x P1.75
BT40-ABH23-120	28	46	23	29	95	120	M12 x P1.75
BT40-ABH30-80	36	60	30	36	55	80	M16 x P2
BT40-ABH30-105	36	60	30	36	80	105	M16 x P2
BT40-ABH30-130	36	60	30	36	105	130	M16 x P2
BT40-ABH40-80	46	80	40	48	55	80	M18 x P2.5
BT40-ABH40-105	46	80	40	48	80	105	M18 x P2.5
BT40-ABH40-125	46	80	40	48	100	125	M18 x P2.5
BT40-ABH40-150	46	80	40	48	125	150	M18 x P2.5
BT40-ABH/SB50-80	55	73	53	53	55	80	M25 x P2
BT40-ABH/SB50-105	55	73	53	53	80	105	M25 x P2
BT40-ABH/SB50-130	55	73	53	53	105	130	M25 x P2
BT40-ABH63-80	70	130	63	63	55	80	M25 x P2
BT40-ABH63-105	70	130	63	63	80	105	M25 x P2
BT40-ABH63-150	70	130	63	63	125	150	M25 x P2
BT50-ABH18-80	22	32	18	24	45	80	M10xP1.5
BT50-ABH18-120	22	32	18	24	85	120	M10xP1.5
BT50-ABH23-80	28	46	23	29	45	80	M12 x P1.75
BT50-ABH23-120	28	46	23	29	85	120	M12 x P1.75
BT50-ABH30-80	36	60	30	36	45	80	M16 x P2
BT50-ABH30-105	36	60	30	36	70	105	M16 x P2
BT50-ABH30-130	36	60	30	36	95	130	M16 x P2
BT50-ABH40-80	46	80	40	48	45	80	M18 x P2.5
BT50-ABH40-105	46	80	40	48	70	105	M18 x P2.5
BT50-ABH40-125	46	80	40	48	90	125	M18 x P2.5
BT50-ABH40-150	46	80	40	48	115	150	M18 x P2.5
BT50-ABH40-180	46	80	40	48	145	180	M18 x P2.5
BT50-ABH/SB50-80	55	73	53	53	45	80	M25 x P2
BT50-ABH/SB50-105	55	73	53	53	70	105	M25 x P2
BT50-ABH/SB50-125	55	73	53	53	90	125	M25 x P2
BT50-ABH/SB50-150	55	73	53	53	115	150	M25 x P2
BT50-ABH/SB50-180	55	73	53	53	145	180	M25 x P2
BT50-ABH63-80	70	130	63	63	45	80	M25 x P2
BT50-ABH63-105	70	130	63	68	70	105	M25 x P2
BT50-ABH63-150	70	130	63	68	115	150	M25 x P2
BT50-ABH63-180	70	130	63	68	150	185	M25 x P2
BT50-ABH63-200	70	130	63	68	165	200	M25 x P2
BT50-ABH63-230	70	130	63	63	195	230	M25 x P2
BT50-ABH83-80	90	160	83	--	45	80	M25 x P2
BT50-ABH83-105	90	160	83	58	70	105	M25 x P2
BT50-ABH83-150	90	160	83	63	115	150	M25 x P2
BT50-ABH83-210	90	160	83	--	175	210	M25 x P2

-BT type boring bars for ABH ROUGH or FINE boring head unit.

-ABH tool holder NOT including ABH/ABH-SB BORING UNIT. ABH boring unit is sold separately.

-ABH微調精磨刀桿。適用於ABH/SB精磨頭或ABH粗磨頭。

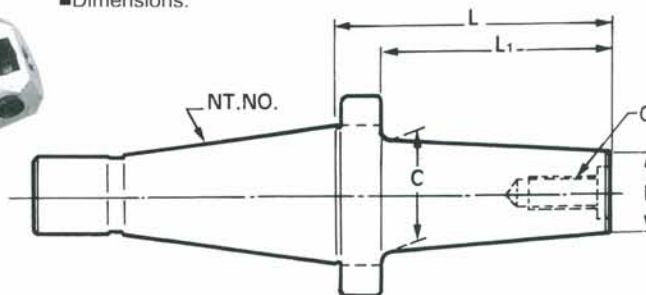
-ABH/ABH-SB刀頭為另購品。



NT30/NT40/NT50- 微調精搪刀桿



■Dimensions:



ABH/ABH-SB
Boring Head

(Unit: mm)

Model No.	Boring Range		D	C	L	L1	G	Draw Bolt
	min	max						
NT30-ABH18-60	22	32	18	24	76	60	M10 x P1.5	1/2-12 M12x1.5P
NT30-ABH18-100	22	32	18	24	116	100	M10 x P1.5	
NT30-ABH23-80	28	46	23	29	96	80	M12 x P1.75	
NT30-ABH23-120	28	46	23	29	136	120	M12 x P1.75	
NT30-ABH30-80	36	60	30	36	96	80	M16 x P2	
NT30-ABH30-130	36	60	30	36	146	130	M16 x P2	
NT30-ABH40-80	46	80	40	48	96	80	M18x P2.5	
NT30-ABH40-150	46	80	40	48	166	150	M18x P2.5	
NT30-ABH63-80	70	130	63	--	96	80	M25 x P2	
NT30-ABH63150	70	130	63	--	166	150	M25 x P2	
NT40-ABH18-60	22	32	18	24	76	60	M10 x P1.5	5/8-11 M16x2.0P
NT40-ABH18-100	22	32	18	24	116	100	M10 x P1.5	
NT40-ABH23-80	28	46	23	29	96	80	M12 x P1.75	
NT40-ABH23-120	28	46	23	29	136	120	M12 x P1.75	
NT40-ABH30-80	36	60	30	36	96	80	M16 x P2	
NT40-ABH30-130	36	60	30	36	146	130	M16 x P2	
NT40-ABH40-80	46	80	40	48	96	80	M18 x P2.5	
NT40-ABH40-150	46	80	40	48	166	150	M18 x P2.5	
NT40-ABH63-80	70	130	63	63	96	80	M25 x P2	
NT40-ABH63-150	70	130	63	63	166	150	M25 x P2	
NT50 ABH18-60	22	32	18	24	96	80	M10 x P1.5	1"-8 M24x3.0P
NT50 ABH18-100	22	32	18	24	136	120	M10 x P1.5	
NT50-ABH23-80	28	46	23	29	96	80	M12 x P1.75	
NT50-ABH23-120	28	46	23	29	136	120	M12 x P1.75	
NT50-ABH30-80	36	60	30	36	96	80	M16 x P2	
NT50-ABH30-130	36	60	30	36	146	130	M16 x P2	
NT50-ABH40-80	46	80	40	48	96	80	M18 x P2.5	
NT50-ABH40-150	46	80	40	48	166	150	M18 x P2.5	
NT50-ABH40-220	46	80	40	48	236	220	M18 x P2.5	
NT50-ABH63-80	70	130	63	68	96	80	M25 x P2	
NT50-ABH63-150	70	130	63	68	166	150	M25 x P2	
NT50-ABH63-230	70	130	63	--	246	230	M25 x P2	
NT50-ABH83-80	90	160	83	--	96	80	M25 x P2	
NT50-ABH83-130	90	160	83	70	146	130	M25 x P2	
NT50-ABH83-200	90	160	83	--	216	200	M25 x P2	

-NT type boring bars for ABH / ABH-SB ROUGH or FINE boring head unit. When ordering, please specify the draw bolt for inch size or metric size.

-ABH tool holder NOT including ABH / ABH-SB BORING UNIT. ABH boring unit is sold separately.

-ABH微調精搪刀桿。適用於ABH / ABH-SB精搪頭或ABH粗搪頭。

-請於訂購刀桿時。確認NT刀桿為公制牙或英制牙。

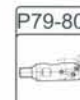
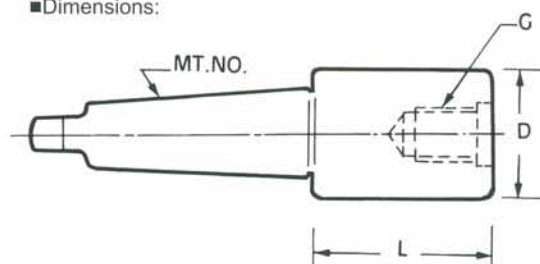
-ABH / ABH-SB刀頭為另購品。

ABH MICRO BORING BAR

MT4/MT5/MT6- 微調精搪刀桿



■Dimensions:



ABH/ABH-SB
Boring Head
(Unit: mm)

Model No.	Boring Range		D	L	G
	min	max			
MT4-ABH18-60	22	32	18	60	M10 x P1.5
MT4-ABH18-100	22	32	18	100	M10 x P1.5
MT4-ABH23-80	28	46	23	80	M12 x P1.75
MT4-ABH23-120	28	46	23	120	M12 x P1.75
MT4-ABH30-80	36	60	30	80	M16 x P2
MT4-ABH30-130	36	60	30	130	M16 x P2
MT4-ABH40-80	46	80	40	80	M18 x P2.5
MT4-ABH40-150	46	80	40	150	M18 x P2.5
MT4-ABH63-80	70	130	63	80	M25 x P2
MT4-ABH63-150	70	130	63	150	M25 x P2
MT5-ABH18-80	22	32	18	80	M10 x P1.5
MT5-ABH18-120	22	32	18	120	M10 x P1.5
MT5-ABH23-80	28	46	23	80	M12 x P1.75
MT5-ABH23-120	28	46	23	120	M12 x P1.75
MT5-ABH30-80	36	60	30	80	M16 x P2
MT5-ABH30-130	36	60	30	130	M16 x P2
MT5-ABH40-80	46	80	40	80	M18 x P2.5
MT5-ABH40-150	46	80	40	150	M18 x P2.5
MT5-ABH40-220	46	80	40	220	M18 x P2.5
MT5-ABH63-80	70	130	63	80	M25 x P2
MT5-ABH63-150	70	130	63	150	M25 x P2
MT5-ABH63-230	70	130	63	230	M25 x P2
MT5-ABH83-50	90	160	83	50	M25 x P2
MT5-ABH83-130	90	160	83	130	M25 x P2
MT5-ABH83-200	90	160	83	200	M25 x P2
MT6-ABH18-80	22	32	18	80	M10 x P1.5
MT6-ABH18-120	22	32	18	120	M10 x P1.5
MT6-ABH23-80	28	46	23	80	M12 x P1.75
MT6-ABH23-120	28	46	23	120	M12 x P1.75
MT6-ABH30-80	36	60	30	80	M16 x P2
MT6-ABH30-130	36	60	30	130	M16 x P2
MT6-ABH40-80	46	80	40	80	M18 x P2.5
MT6-ABH40-150	46	80	40	150	M18 x P2.5
MT6-ABH40-220	46	80	40	220	M18 x P2.5
MT6-ABH63-80	70	130	63	80	M25 x P2
MT6-ABH63-150	70	130	63	150	M25 x P2
MT6-ABH63-230	70	130	63	230	M25 x P2
MT6-ABH83-80	90	160	83	80	M25 x P2
MT6-ABH83-130	90	160	83	130	M25 x P2
MT6-ABH83-200	90	160	83	200	M25 x P2

-Morse taper shank boring bars for ABH/ABH-SB ROUGH or FINE boring head unit.

-ABH tool holder NOT including ABH/ABH-SB BORING UNIT. ABH boring unit is sold separately.

-ABH微調精搪刀桿。適用於ABH/ABH-SB精搪頭或ABH粗搪頭。

-ABH/ABH-SB刀頭為另購品。



NBJ16 MICRO BORING BAR

NBJ16 MICRO BORING SYSTEM-NBJ16- 微調搪孔系統

Model No.	Boring range 搪孔範圍	Shank Size 刀桿規格	L1	Draw Bolt
BT40 NBJ16	06-51	BT40 NBJ16-55	55	-
BT50 NBJ16	06-51	BT50 NBJ16-55	65	-
BT50 NBJ16	06-51	BT50 NBJ16-85	85	-
NT40 NBJ16	06-51	BT40 NBJ16	55	M16X2.0P 5/8"-11
NT50 NBJ16	06-51	BT50 NBJ16	65	M24X3.0P 1"-8

-NBJ16 is a small diameter boring system. In which diameter size, the boring range could be from 6~51mm.

-NBJ16 boring head can match BM1625 series for optional it can extend boring range to 68mm (6-68mm)=>refer to P.87

-BJ16 boring bar according to your request to choice.

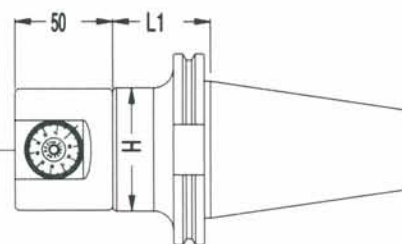
-BJ16 boring bar and BJ16 8PCS must buy seperately.

-NBJ16微調搪孔系統：搪孔範圍6~51mm。

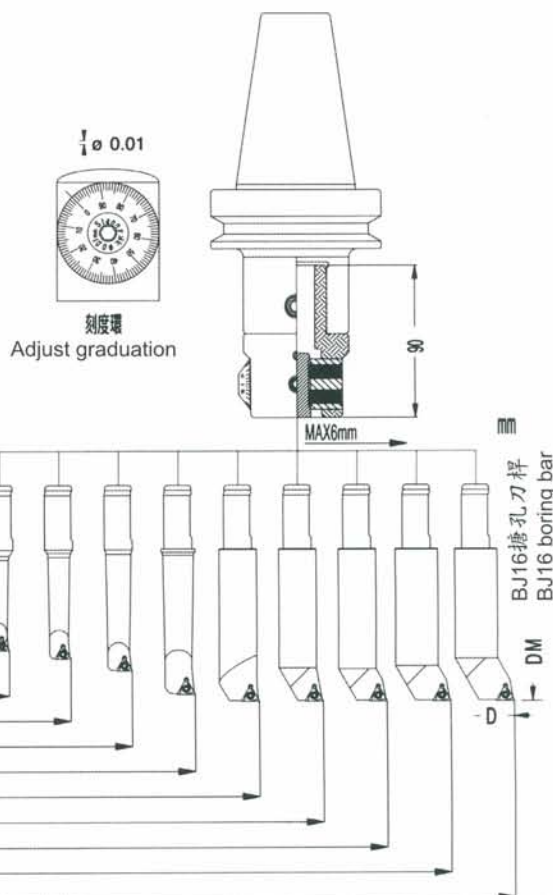
-BJ16搪孔刀頭可另選配BM1625系列，可使搪孔範圍延展至68mm(6-68mm)=> 請參考P.87

-BJ16搪孔刀桿可依需求自由選配。

-BJ16搪孔刀桿及BJ16 8PCS 搪刀組為另購品。



BJ16 BORING BAR SET-BJ16- 搪刀組



Model NO.	Boring range Dmin-Dmax 範圍	Dimensions DM深度	Insert 刀片	Bolt 螺絲	Wrench 扳手
BJ1606-24	6 9	24	WBGTO601..L	SB-1STR-M2	T6
BJ1608-32	8 11	32	TBGT0601..L	SB-1STR-M2	T6
BJ1610-40	10 13	40			
BJ1612-53	12 15	53	TPGH0902..L	SB-2TR-M2.5	T8
BJ1614-60	14 17	60			
BJ1616-68	16 21	68			
BJ1620-83	20 26	83			
BJ1625-90	25 31	90			
BJ1630-90	30 36	90	TPGH1103..L	SBETR-M3	T8
BJ1635-90	35 41	90			
BJ1640-90	40 46	90			
BJ1645-90	45 51	90			

-BJ16 boring bar NOT including inserts.

-BJ16 boring bar that could be contact with the other size boring heads, collet and carbide =>refer to P85.

-BJ16-8PCS standard size: BJ1608-32, BJ1610-40, BJ1612-53, BJ1614-60, BJ1616-68, BJ1620-83, BJ1625-90, BJ1630-90

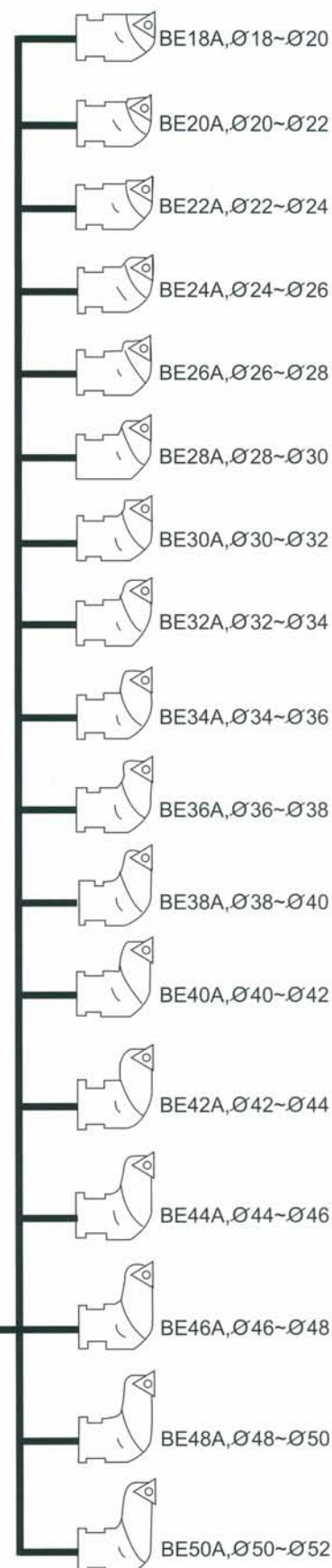
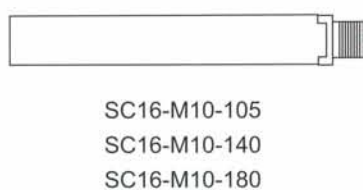
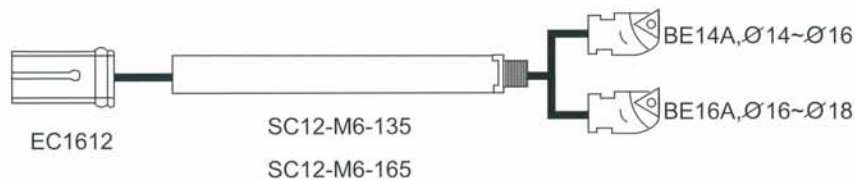
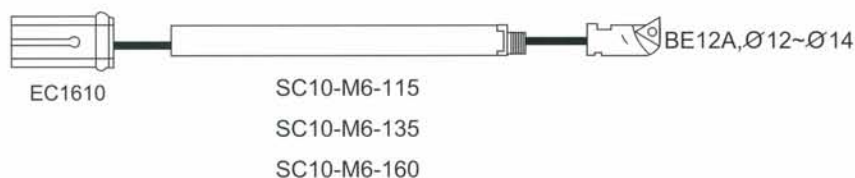
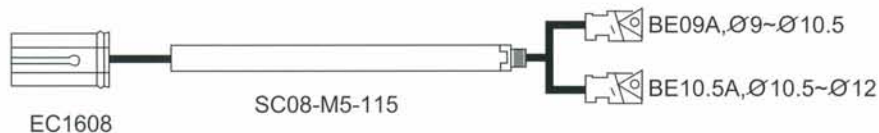
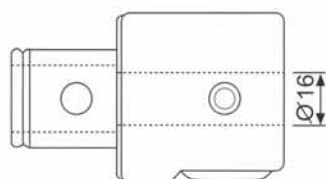
-BJ16搪刀桿可另外選購搪孔頭，套筒及錐柄柄搪刀桿使用=>請參考P85。

-BJ16-8PCS 標準規格: BJ1608-32, BJ1610-40, BJ1612-53, BJ1614-60, BJ1616-68, BJ1620-83, BJ1625-90, BJ1630-90



BORING HEAD & BORING PART

搪孔刀頭 & 配件

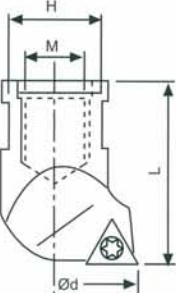



-Detail size and info see=>P86
-詳細規格及資料。see=>P86



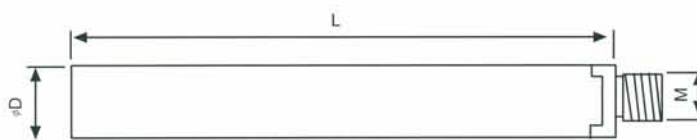
BORING HEAD & BORING PART

搪孔刀頭 & 配件

BORING HEAD	MODEL NO.	DIMENSIONS,mm					INSERTS	SCREW	WRENCH
		d	H	L	M	Range			
搪孔頭 BORING CUTTER HEAD 	BE09A	9	7	18	M5	9-10.5	TP..0802..	MS2206A	TF7
	BE10.5A	10.5				10.5-12			
	BE12A	12	8	23	M6	12-14			
	BE14A	14	10	23	M6	14-16			
	BE16A	16				16-18			
	BE18A	18	14	27	M10	18-20			
	BE20A	20				20-22			
	BE22A	22	14	27	M10	22-24			
	BE24A	24				24-26			
	BE26A	26				26-28			
	BE28A	28				28-30			
	BE30A	30				30-32			
	BE32A	32	14	27	M10	32-34			
	BE34A	34				34-36			
	BE36A	36				36-38			
	BE38A	38				38-40			
	BE40A	40				40-42			
	BE42A	42	14	27	M10	42-44			
	BE44A	44				44-46			
	BE46A	46				46-48			
	BE48A	48				48-50			
	BE50A	50				50-52			

COLLET	MODEL NO.	DIMENSIONS,mm		CARBIDE 適用鎢鋼柄
		D	D1	
套筒 	EC1608	16	8	SC08-M5.....
	EC1610	16	10	SC10-M6....
	EC1612	16	12	SC12-M6.....

CARBIDE 鎢鋼柄搪刀桿



MODEL NO.	DIMENSIONS,mm			BORING CUTTER HEAD 適用搪刀頭	COLLET 適用套筒
	L	D	M		
SC08-M5-115	115	8	M5	BE09A, BE10.5A	EC1608
SC10-M6-115	115	10	M6	BE12A	EC1610
SC10-M6-135	135				
SC10-M6-160	160				
SC12-M6-135	135			BE14A, BE16A	EC1612
SC12-M6-165	165				
SC16-M10-105	105	16	M10	BE18A, BE20A, BE22A, BE24A	---
SC16-M10-140	140	16	M10	BE26A, BE28A, BE30A, BE32A	
SC16-M10-180	180	16	M10	BE34A, BE36A, BE38A, BE40A	
				BE44A, BE46A, BE48A, BE50A	

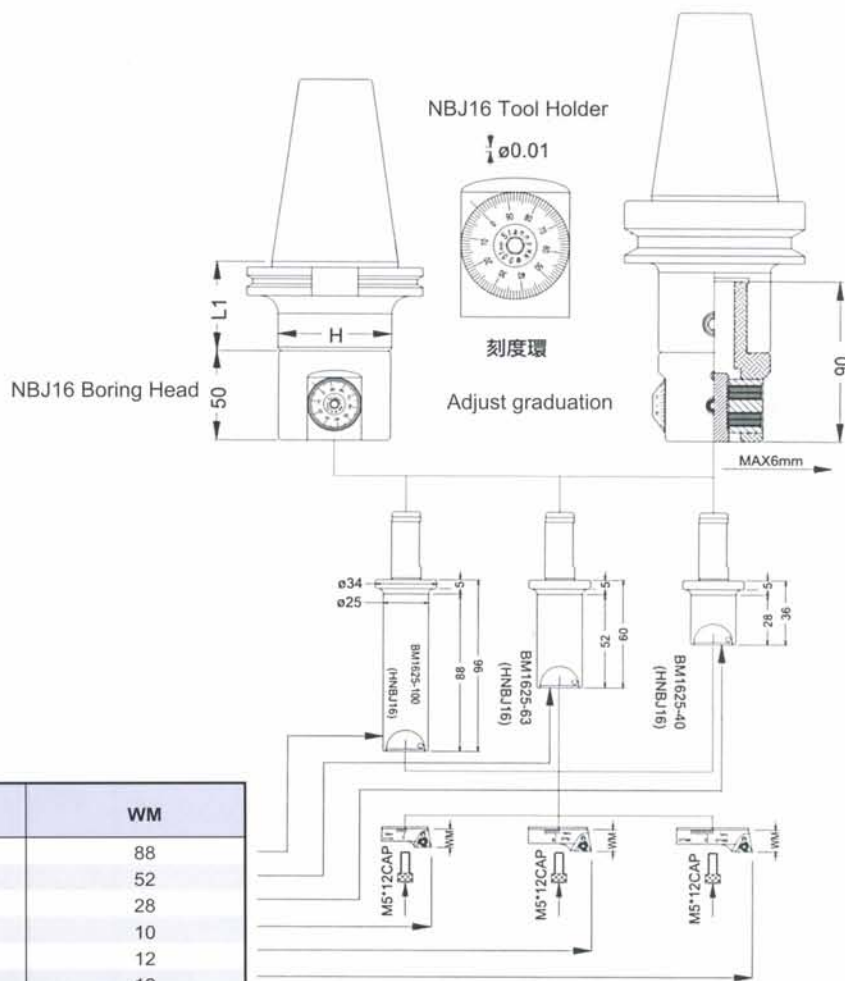


NBJ16 MICRO BORING BAR SYSTEM

NBJ16-BM1625 MICRO BORING BAR Ø29~Ø68-BM1625 精搪刀桿



- BM1625 micro boring system to match with NBJ16 boring head.
- BM1625 boring system make the boring range from 29-68mm.
- BM1625精搪刀桿運用於NBJ16刀頭。
- BM1625精搪範圍Minø29~Maxø68。

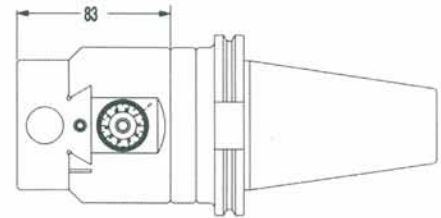


Model No.	範圍øMin-øMax	WM
BM1625-100		88
BM1625-63		52
BM1625-40		28
SRTP2938	29-38	10
SRTP3652	36-52	12
SRTP4468	44-68	12



NBH2084 MICRO BORING BAR

NBH2084 MICRO BORING SYSTEM-NBH2084- 微調搪孔系統



Model No.	Boring range 搪孔範圍	Shank Sizw 刀桿規格	Draw Bolt
BT40-NBH2084/SET	08-280	BT40-NBH2084	--
BT50-NBH2084/SET	08-280	BT50-NBH2084	--
NT30-NBH2084/SET	08-280	NT30-NBH2084	M12X1.75P 1/2"X12
NT40-NBH2084/SET	08-280	NT40-NBH2084	M16X2.0P 5/8"-11
NT50-NBH2084/SET	08-280	NT50-NBH2084	M24X3.0P 1"-8
MT4-NBH2084/SET	08-280	MTA4-NBH2084	--
MT5-NBH2084/SET	08-280	MTA5-NBH2084	--

- NBH2084 is a small diameter boring system in which diameter size ranges from 8~280mm.
- NBH2084 TOOL HOLDER SET: Already attached 3 PCS of BJ20 BORING BARS that choice by yourself.
- BJ20 boring bar according to your request to choice.
- NBH2084微調搪孔系統：搪孔範圍8~280mm。
- NBH2084搪孔組已附3支搪孔刀桿。

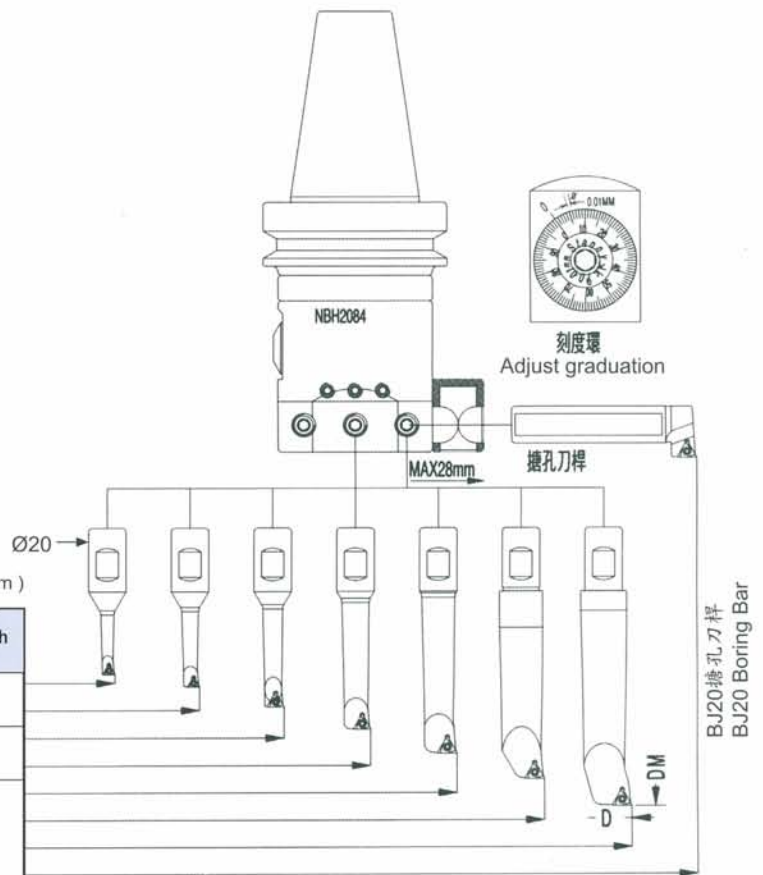
BJ20 BORING BAR SET-BJ20- 搪刀組



BJ20 8PCS standard size:
BJ20 8PCS標準規格：

Model No.	Boring range Dmin-Dmax 範圍	Dimensions DM 深度	Insert 刀片	Bolt 螺絲	Wremch
BJ2008-32	8 11	32	TBGT0601..L	SB-1STR-M2	T6
BJ2010-40	10 13	40			
BJ2012-53	12 17	53	TPGH0902..L	SB-2TR-M2.5	T8
BJ2016-68	16 21	68			
BJ2020-83	20 130	83			
BJ2025-96	25 135	96			
BJ2030-115	30 140	115	TPGH1103..L	SB-3TR-M3	T8
BJ20-20L	120 280	84+BT L1			

(Unit: mm)



-BJ20 boring bar NOT including inserts



HBOR50 MICRO BORING BAR

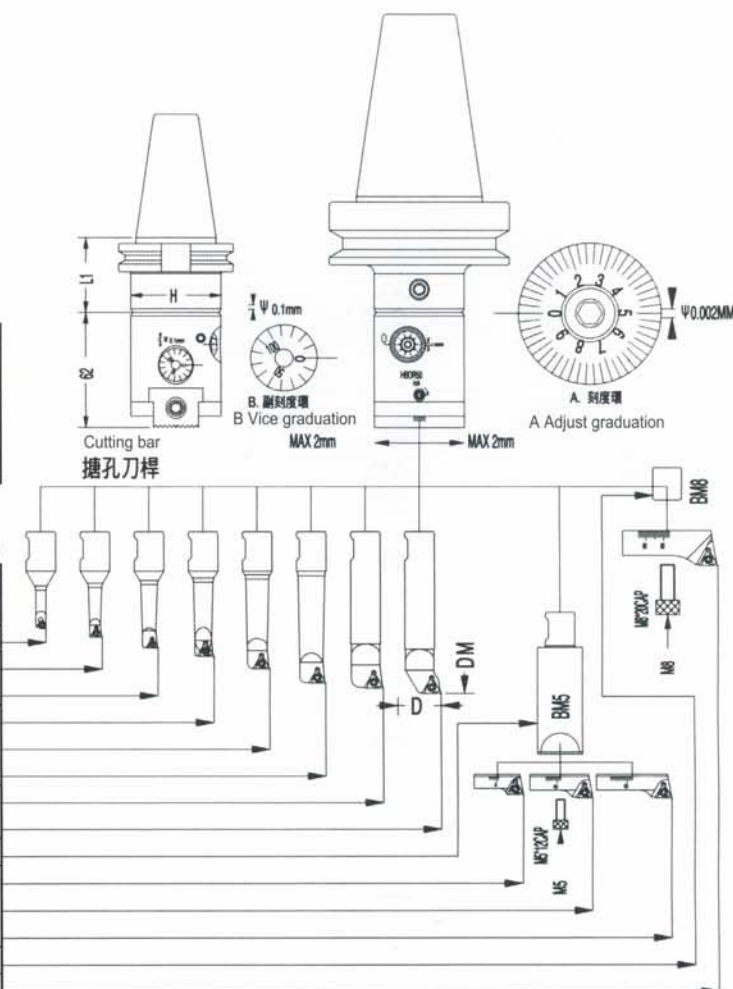
HBOR50 MICRO BORING SYSTEM-HBOR50 SET- 微調搪孔系統組



Model No.	Boring range 搪孔範圍	Shank Size 刀桿規格	L1
BT30 HBOR50/SET	06-90	BT30 ACK5-45	45
BT40 HBOR50/SET	06-90	BT40 ACK5-50	50
BT50 HBOR50/SET	06-90	BT50 ACK5-65	65

Model No.	Boring range Dmin-Dmax 搪孔範圍	Dimensions DM 深度	Insert 刀片	Bolt 螺絲	Wrench
BR1606-21	6-9	21	WBGTO601..L	SB-1STR-M2	T6
BR1608-28	8-11	28	TBGT0601..L	SB-1STR-M2	T6
BR1610-35	10-13	35	TBGT0601..L	SB-1STR-M2	T6
BR1612-42	12-15	42	TPGH0902..L	SB-2TR-M2.5	T8
BR1614-50	14-17	50	TPGH0902..L	SB-2TR-M2.5	T8
BR1616-60	16-20	60	TPGH0902..L	SB-2TR-M2.5	T8
BR1620-65	20-24	65	TPGH1103..L	SB-3TR-M3	T8
BR1624-68	24-28	68	TPGH1103..L	SB-3TR-M3	T8
BM5		60 +SRTP2938 or SRTP3652 or SRTP4468		M5*12CAP	4
SRTP2938	28-38	+10			
SRTP3652	36-52	+12	TPGH0902..L	SB-2TR-M2.5	T8
SRTP4468	44-68	+12			
BM8			+SRTP5790	M8*20CAP	6
SRTP5790	57-90	+20	TPGH1103..L	SB-3TR-M3	T8

(Unit: mm)



-HBOR-50 is a set refers to micro finish boring system in which diameter size ranges from 6~90mm.

-The inside diameter of HBOR50 micro finish boring system is 16mm. With the combination of BR series, the diameter of HBOR50 can be within the range of 6~90mm now.

-All set of HBOR50 micro boring bar NOT including inserts.

-HBOR50為微調搪孔系統組：搪孔範圍6~90mm。

-HBOR50極細微調搪孔本體中的內孔Ø16。組合BR系列小徑精搪孔刀桿使搪孔徑範圍為6~90。更為完整搪孔範圍組合。

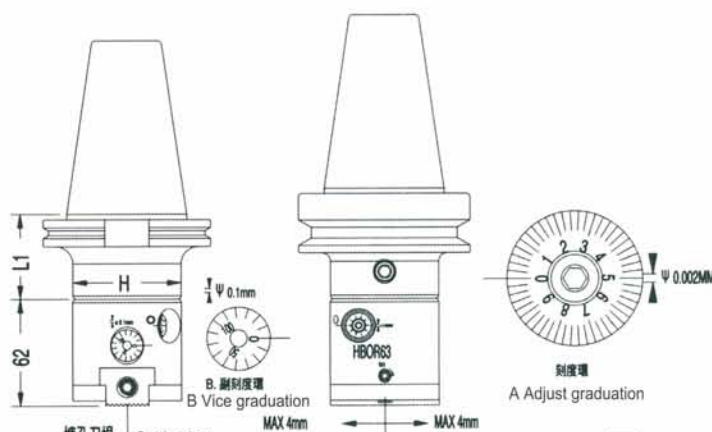


HBOR63 MICRO BORING BAR

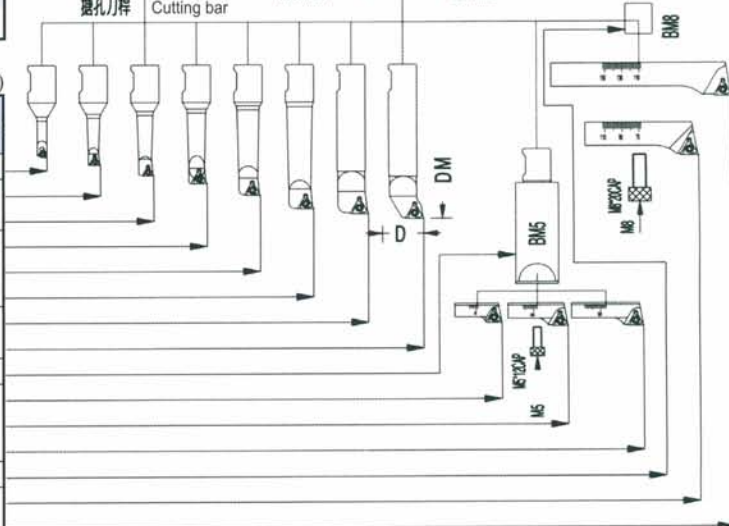
HBOR63 MICRO BORING SYSTEM-HBOR63 SET- 微調搪孔系統組



Model No.	Boring range 搪孔範圍	Shank Size 刀桿規格	L1	Draw Bolt
BT40 HBOR63/SET	06-150	BT40 ACK6-55	55	-
BT50 HBOR63/SET	06-150	BT50 ACK6-65	65	-
BT50 HBOR63/SET	06-150	BT50 ACK6-85	85	-
NT40 HBOR63/SET	06-150	NT40 ACK6-55	55	M16X2.0P 5/8"-11
NT50 HBOR63/SET	06-150	NT50 ACK6-65	65	M24X3.0P 1"-8



Model No.	Boring range Dmin-Dmax 搪孔範圍	Dimensions DM 深度	Insert 刀片	Bolt 螺絲	Wrench
BR1606-21	6-9	21	WBGTO601..L	SB-1STR-M2	T6
BR1608-28	8-11	28	TBGT0601..L	SB-1STR-M2	T6
BR1610-35	10-13	35			
BR1612-42	12-15	42			
BR1614-50	14-17	50	TPGH0902..L	SB-2TR-M2.5	T8
BR1616-60	16-20	60			
BR1620-65	20-24	65			
BR1624-68	24-28	68	TPGH1103..L	SB-3TR-M3	T8
BM5		60 +SRTP2938 or SRTP3652 or SRTP4468		M5*12CAP	4
SRTP2938	28-38	+10			
SRTP3652	36-52	+12	TPGH0902..L	SB-2TR-M2.5	T8
SRTP4468	44-68	+12			
BM8		+SRTP70110 or SRTP110150		M8*20CAP	6
SRTP70110	70-110	+20			
SRTP110150	110-150	+20	TPGH1103..L	SB-3TR-M3	T8



-HBOR63 is a set refers to micro finish boring system in which diameter size ranges from 6~150mm.

-The inside diameter of HBOR63 micro finish boring system is 16mm. With the combination of BR series, the diameter of HBOR63 can be within the range of 6~150mm now.

-HBOR63 boring head can match BM140 series for optional, it can extend boring range to 280mm (6-280mm)=>refer to P91

-All set of HBOR63 micro boring bar NOT including inserts.

-HBOR63為微調搪孔系統組：搪孔範圍6~150mm。

-HBOR63極細微調搪孔本體中的內孔Ø16。組合BR系列小徑精搪孔刀桿使搪孔徑範圍為6~150mm。更為完整搪孔範圍組合。

-HBOR63微調搪孔組可另選配BM140系列，使其搪孔範圍延展至280mm (6-280mm)=>請參考P91。



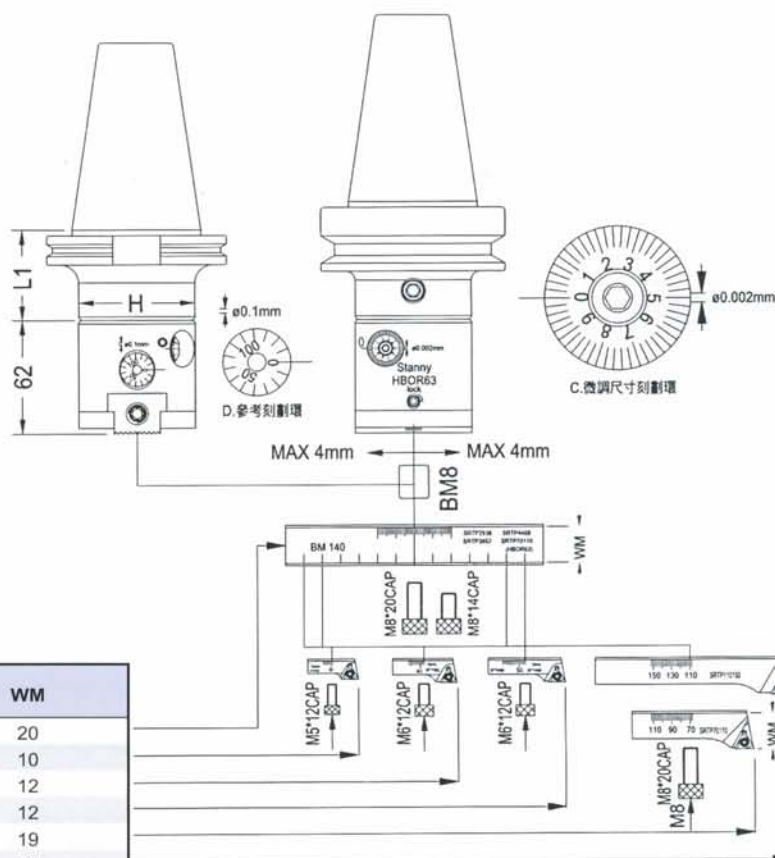
HBOR63 MICRO BORING BAR SYSTEM

HBOR63 - 微調精搪孔系統

HBOR63-BM140 MICRO BORING BAR Ø150-Ø280-BM140 精搪刀桿



- BM140 micro boring system to match with HBOR63 BORING HEAD.
- BM140 boring system make the boring range from 150-280mm.
- BM140精搪刀桿運用於HBOR63刀桿。
- BM140精搪範圍為MinØ150~MaxØ280mm。

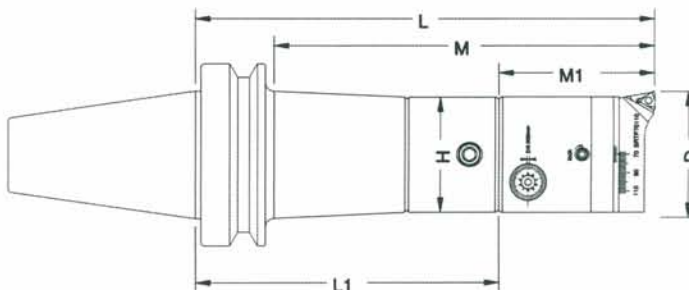


Model No.	範圍 øMin-øMax	WM
BM140	+BM8	20
SRTP2938	150-200	10
SRTP3652	150-210	12
SRTP4468	170-220	12
SRTP70110	140-240	19
SRTP110150	180-280	19



HBOR SERIES MICRO BORING BAR

HBOR MICRO BORING SYSTEM- 極細微調精搪孔刀



Model No. 搪孔刀柄	Boring range ØDmin-ØDmax 搪孔範圍	M	L	Micro Finish Boring And Cutting System			
				Shank L1 搪孔刀柄	Boring Head 搪孔刀頭	Connector 連接器	Insert Holder 精搪刀座
BT30-HBOR25-75	M 29-38	75	105	BT30 ACK2-55	HBOR25	M5	SRTP2938
BT30-HBOR32-93	M 36-52	93	118	BT30 ACK3-55	HBOR32	M6	SRTP3652
BT30-HBOR40-93	M 44-68			BT30 ACK4-55	HBOR40		SRTP4468
BT30-HBOR50-93	BM 57-90		125	BT30 ACK5-45	HBOR50	BM8	SRTP5790
BT30-HBOR63-93	BM 70-110		145	BT30 ACK6-65	HBOR63		SRTP70110
BT40-HBOR25-90	M 29-38	90	122	BT40 ACK2-72	HBOR25	M5	SRTP2938
BT40-HBOR32-102	M 36-52	102	135	BT40 ACK3-72	HBOR32	M6	SRTP3652
BT40-HBOR40-102	M 44-68			BT40 ACK4-72	HBOR40		SRTP4468
BT40-HBOR50-102	BM 57-90		130	BT40 ACK5-50	HBOR50	BM8	SRTP5790
BT40-HBOR63-102	BM 70-110		135	BT40 ACK6-55	HBOR63		SRTP70110
BT40-HBOR63-102	BM 110-150	SRTP110150					
BT50-HBOR25-102	M 29-38	102	165	BT50 ACK2-115	HBOR25	M5	SRTP2938
BT50-HBOR25-127	M 29-38	127	190	BT50 ACK2-140			
BT50-HBOR25-152	M 29-38	152	215	BT50 ACK2-165			
BT50-HBOR32-135	M 36-52	135	198	BT50 ACK3-135	HBOR32	M6	SRTP3652
BT50-HBOR32-165	M 36-52	165	228	BT50 ACK3-165			
BT50-HBOR32-200	M 36-52	200	263	BT50 ACK3-200			
BT50-HBOR40-135	M 44-68	135	198	BT50 ACK4-135	HBOR40		SRTP4468
BT50-HBOR40-185	M 44-68	185	248	BT50 ACK4-185			
BT50-HBOR40-225	M 44-68	225	288	BT50 ACK4-225			
BT50-HBOR40-265	M 44-68	265	328	BT50 ACK4-265	HBOR50		SRTP5790
BT50-HBOR50-102	BM 57-90	102	145	BT50 ACK5-65			
BT50-HBOR50-202	BM 57-90	202	245	BT50 ACK5-165			
BT50-HBOR50-252	BM 57-90	252	295	BT50 ACK5-215	HBOR63	BM8	SRTP70110
BT50-HBOR50-302	BM 57-90	302	345	BT50 ACK5-265			
BT50-HBOR63-122	BM 70-110	122	165	BT50 ACK6-85			
BT50-HBOR63-202	BM 70-110	202	245	BT50 ACK6-165	HBOR63		SRTP110150
BT50-HBOR63-252	BM 70-110	252	295	BT50 ACK6-215			
BT50-HBOR63-302	BM 70-110	302	345	BT50 ACK6-265			
BT50-HBOR63-122	BM 110-150	122	165	BT50 ACK6-85			
BT50-HBOR63-202	BM 110-150	202	245	BT50 ACK6-165			
BT50-HBOR63-252	BM 110-150	252	295	BT50 ACK6-215			
BT50-HBOR63-302	BM 110-150	302	345	BT50 ACK6-265			

-HBOR SET-SHANK+BORING HEAD+CONNECTOR+INSERT HOLDER.

-The boring range of HBOR from 29~150mm that could be choice according to your demand.

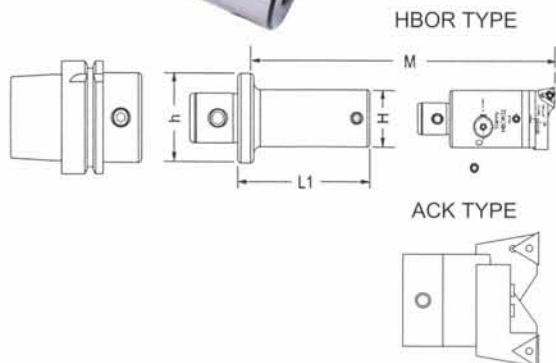
-HBOR極細微調精搪孔刀組：由搪孔刀柄、精搪孔刀頭和精搪孔刀座組成。

-HBOR搪孔範圍：29~150mm。可根據其需求選擇。



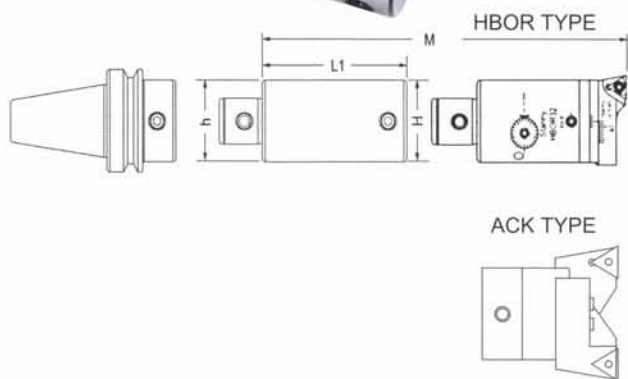
HBOR/ACK EXTENSION ADAPTER

HBOR / ACK EXTENSION ADAPTER- 縮徑接柄 / 延長接柄 / 直柄



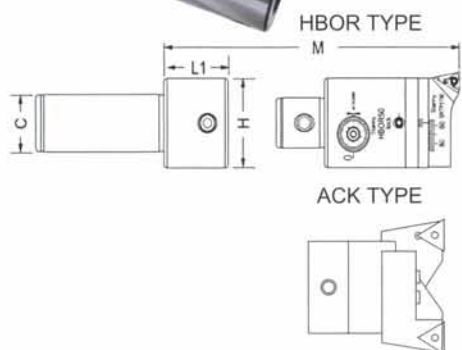
ADAPTER 縮徑接柄

Model No.	h	H	L1
ACK3-ACK2-25	32	25	32
ACK4-ACK2-30	40	25	40
ACK4-ACK3-30	40	32	40
ACK5-ACK2-35	50	25	50
ACK5-ACK2-60	50	25	75
ACK5-ACK3-35	50	32	50
ACK5-ACK3-67	50	32	82
ACK5-ACK4-35	50	40	50
ACK5-ACK4-75	50	40	90
ACK6-ACK2-40	63	25	63
ACK6-ACK2-90	63	25	113
ACK6-ACK3-40	63	32	63
ACK6-ACK3-100	63	32	127
ACK6-ACK4-40	63	40	63
ACK6-ACK4-120	63	40	143
ACK6-ACK5-40	63	50	63
ACK6-ACK5-140	63	50	163



EXTENSION ADAPTER 延長接柄

Model No.	h	H	L1
ACK2-ACK2-25	25	25	25
ACK2-ACK2-50	25	25	50
ACK3-ACK3-32	32	32	32
ACK3-ACK3-64	32	32	64
ACK4-ACK4-40	40	40	40
ACK4-ACK4-80	40	40	80
ACK5-ACK5-50	50	50	50
ACK5-ACK5-100	50	50	100
ACK6-ACK6-63	63	63	63
ACK6-ACK6-126	63	63	126



STRAIGHT SHANK 直柄

Model No.	h	H	L1
C32-ACK2-35	32	25	53
C32-ACK3-40	32	32	40
C32-ACK4-40	32	40	40
C32-ACK5-40	32	50	40
C32-ACK6-55	32	63	55

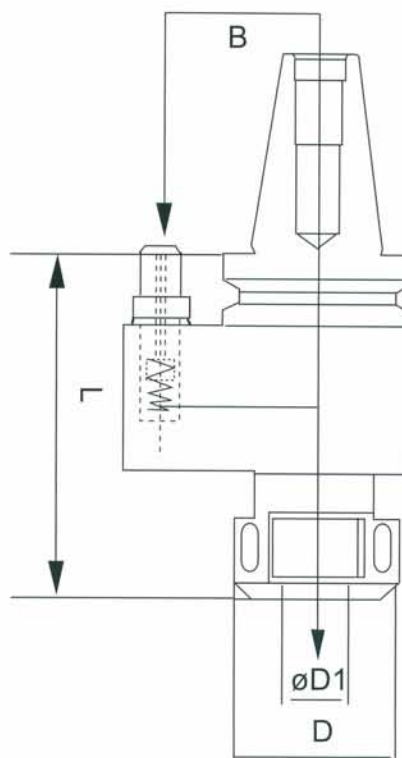
-EXTENSION ADAPTERS are suitable for "HBOR BORING HEAD" and "ACK BORING HEAD".

-縮徑接柄 / 延長接柄 / 直柄皆與"HBOR搪頭"和"ACK搪頭"共用。



ERO OIL-FEED HOLDER

BT40/BT50-ERO- 油路刀把



(Unit: mm)

Model No.	D1	D	L	中心距/B
BT40-ERO32-145	ER32- ϕ 4- ϕ 20	50	145	60/65
BT40-ERO40-150	ER40- ϕ 4- ϕ 25	63	150	60/65
BT50-ERO32-160	ER32- ϕ 4- ϕ 20	50	155	80/82
BT50-ERO40-160	ER40- ϕ 4- ϕ 25	63	160	80/82

-ERO OIL-FEED TOOL HOLDER : Must use ER COOLANT NUT & ER COOLANT COLLET.

-When ordering, please specify the B part of OIL-FEED HOLDER according to your machine.

-Positioning Block is necessary. It must buy separately. Positioning Block refer to P.95

-ERO油路刀把：請使用ER止水筒夾和止水螺帽。

-請於訂購時，依據機台規格確認中心距離B的尺寸。

-ERO油路刀把止動塊為另購品=>請參考P.95

ER COOLANT COLLET- 止水型筒夾

ER32 COOLANT

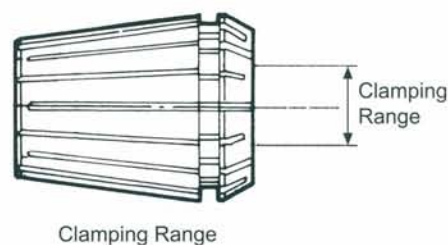
Model No.	Clamping Range
ER32-4C	4.0-3.0
ER32-5C	5.0-4.0
ER32-6C	6.0-5.0
ER32-7C	7.0-6.0
ER32-8C	8.0-7.0
ER32-9C	9.0-8.0
ER32-10C	10.0-9.0
ER32-11C	11.0-10.0
ER32-12C	12.0-11.0
ER32-13C	13.0-12.0
ER32-14C	14.0-13.0
ER32-15C	15.0-14.0
ER32-16C	16.0-15.0
ER32-17C	17.0-16.0
ER32-18C	18.0-17.0
ER32-19C	19.0-18.0
ER32-20C	20.0-19.0

ER40 COOLANT

Model No.	Clamping Range
ER40-4C	4.0-3.0
ER40-5C	5.0-4.0
ER40-6C	6.0-5.0
ER40-7C	7.0-6.0
ER40-8C	8.0-7.0
ER40-9C	9.0-8.0
ER40-10C	10.0-9.0
ER40-11C	11.0-10.0
ER40-12C	12.0-11.0
ER40-13C	13.0-12.0
ER40-14C	14.0-13.0
ER40-15C	15.0-14.0
ER40-16C	16.0-15.0
ER40-17C	17.0-16.0
ER40-18C	18.0-17.0
ER40-19C	19.0-18.0
ER40-20C	20.0-19.0

ER40 COOLANT

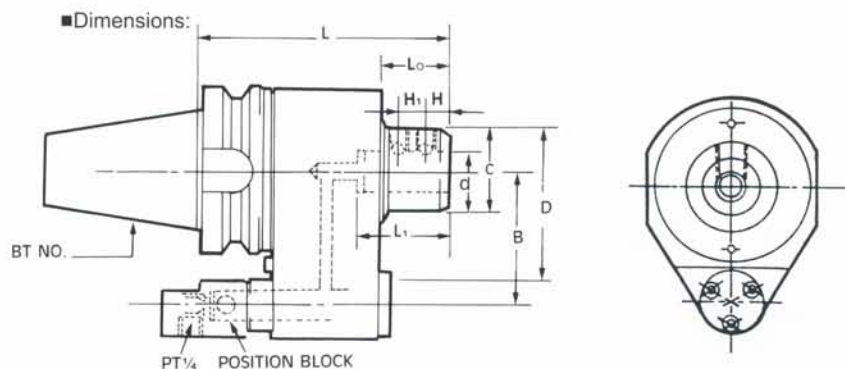
Model No.	Clamping Range
ER40-21C	21.0-20.0
ER40-22C	22.0-21.0
ER40-23C	23.0-22.0
ER40-24C	24.0-23.0
ER40-25C	25.0-24.0
ER40-26C	26.0-25.0





SLO OIL-FEED HOLDER

BT40/BT50-SLO- 油路刀把



(Unit: mm)

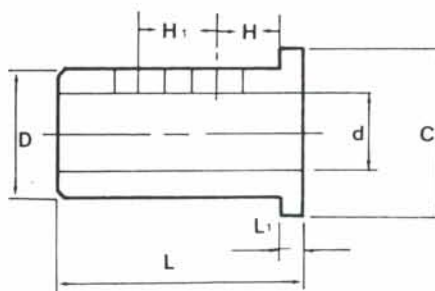
Model No.	d	L	B	C	D	L _o	L ₁	H	H ₁
BT40-SLO32-150	32	150	60/65	53	90	50	60	15	15
BT40-SLO40-150	40	150	60/65	70	90	50	70	19	18
BT50-SLO32-160	32	160	80/82	54	100	50	60	15	15
BT50-SLO40-160	40	160	80/82	64	100	50	70	19	18

-When ordering, please specify the B part of OIL-FEED HOLDER according to your machine.

-Positioning Block is necessary. It must buy separately.

-請於訂購時，依據機台規格確認中心距離B的尺寸。

REDUCING SLEEVE-CSO32/CSO40- 油路刀套



(Unit: mm)

Part No.	L	L ₁	H	H ₁	d	D	C
CSO32-16	65	10	15	15	16	32	53
CSO32-20	65	10	15	15	20	32	53
CSO32-25	65	10	15	15	25	32	53
CSO40-16	75	10	19	18	16	40	63
CSO40-20	75	10	19	18	20	40	63
CSO40-25	75	10	19	18	25	40	63
CSO40-32	75	10	19	18	32	40	63

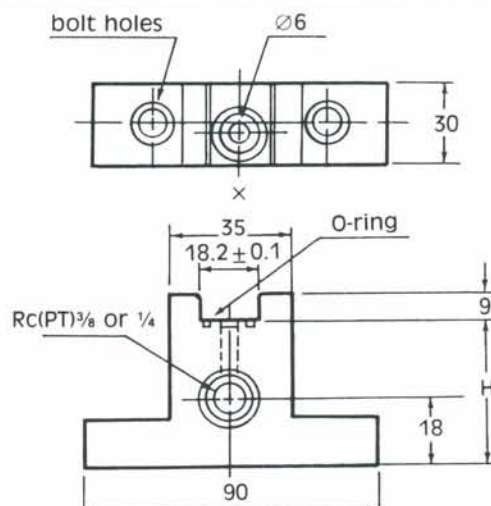
POSITIONING BLOCK- 止動塊

In using, OIL-FEED holder, positioning block illustrated here is necessary.

The positioning block can be mounted to the spindle guide but it shall be mounted so as not to interfere with ATC arm, etc. of the machine. Therefore, as the mounting differs with different machines, it is necessary to consult the machine manufacturer about the proper mounting.



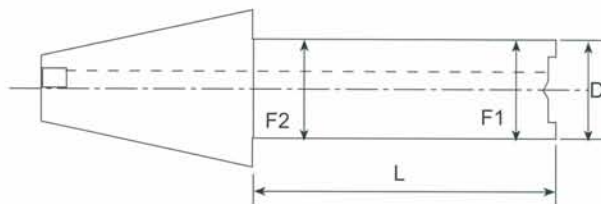
止動塊



• (Note) H & X dimensions differ depending on machines employed.



BT40/BT50-TA- 測試棒

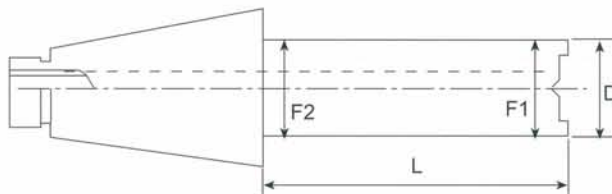


(Unit: mm)

Model No.	D	L
BT30-TA30-200	30	200
BT30-TA30-250	30	250
BT40-TA40-250	40	250
BT40-TA40-300	40	300
BT40-TA40-350	40	350
BT50-TA40-315	40	315
BT50-TA40-350	40	350
BT50-TA40-400	40	400
BT50-TA63-315	63	315
BT50-TA63-350	63	350
BT50-TA63-400	63	400

-Test arbors are used to measure the runout of machine spindle.

NT30/NT40/NT50

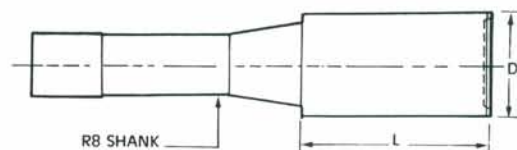


(Unit: mm)

Model No.	D	L	Braw Bolt
NT30-TA30-200	30	200	1/2-12"
NT30-TA30-300	30	300	M12x1.75P
NT40-TA40-250	40	250	5/8-11" M16x2.0P
NT40-TA40-300	40	300	
NT40-TA40-350	40	350	
NT50-TA40-300	40	300	1"-8 M24x3.0P
NT50-TA40-350	40	350	
NT50-TA40-400	40	400	
NT50-TA63-300	63	300	1"-8 M24x3.0P
NT50-TA63-350	63	350	
NT50-TA63-400	63	400	

-Test arbors are used to measure the runout of machine spindle. When ordering, please specify the draw bolt for inch size or metric size.
-請於訂購時，確認NT刀桿為英制或公制。

R8



(Unit: mm)

Model No.	D	L
R8-TA30-200	30	200
R8-TA30-300	30	300

-Test arbors are used to measure the runout of machine spindle.



ISO TAPER ISO 20/25/30 BALANCED TOOL HOLDER

ISO SERIES / NBT SERIES

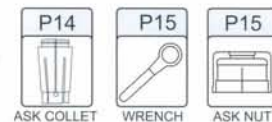
ISO20/25/30-CNC- 木工機 / 雕刻機 ER TYPE



Model No.	capacity	Diameter of Clamping Nut	Collet	Wrench
ISO20-ER16M	0.5-10	22	ER16	WM16
ISO25-ER20M	1-13	28	ER20	WM20
* ISO25-ER20M	1-13	28	ER20	WM20
ISO30-ER16	0.5~10	22	ER16	W16
ISO30-ER20	1-13	28	ER20	W20
ISO30-ER25	1-13	42	ER25	W25
ISO30-ER32	2~20	50	ER32	W32

- Max speed : 30,000 rpm G2.5
- * type for "DOUBLE CONTACT SYSTEM"
- For small CNC machine centers, engraving machines.
- Wrench and collet NOT included.
- * type 適用於兩面拘束系統。
- 適用於木工機及雕刻機。
- 扳手和筒夾為另購品。

ASK TYPE



Model No.	capacity	Diameter of Clamping Nut	Collet	Wrench
ISO25-ASK10	2-10	27	ASK10	WASK10
* ISO25-DASK10	2-10	27	ASK10	WASK10
ISO30-ASK10	2-10	27	ASK10	WASK10
ISO30-ASK16	3-16	40	ASK16	WASK16

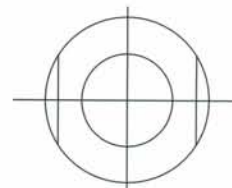
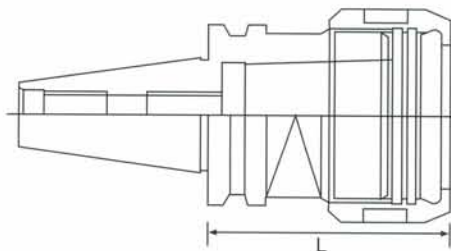
- Max speed : 30,000 rpm G2.5
- * type for "DOUBLE CONTACT SYSTEM"
- For small CNC machine centers, engraving machines.
- Wrench and collet NOT included.
- * type 適用於兩面拘束主軸系統。
- 適用於木工機及雕刻機。
- 扳手和筒夾為另購品。



ISO TAPER ISO 30 BALANCED TOOL HOLDER

ISO30- 木工機 / 雕刻機

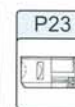
OZ COLLET CHUCK-重切削筒夾體



OZ COLLET



WRENCH



OZ NUT

ISO SERIES / NBT SERIES

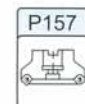
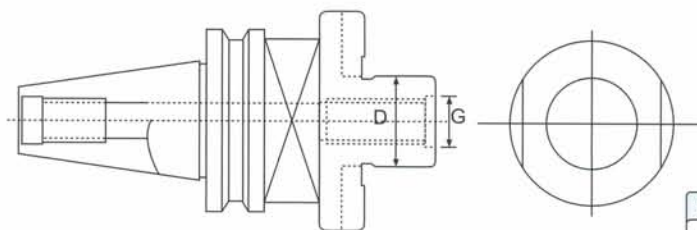
Model No.	L	capacity	Diameter of Clamping Nut	Collet	Wrench
ISO30-OZ25	60	3-25	60	OZ25	OZ25

-ISO30 shank for OZ collet chuck can clamp drills reamers, end mills and taps.

-OZ重切削刀桿可用於夾持鉗頭，銑刀及絲攻刀具。

-Max speed : 30,000 rpm G2.5

FMA TYPE



Face Mill Cutter

Model No.	D	G	Cutter dia
ISO30-FMA25.4	25.4	M12	76

-ISO30 FMA holder for clamping face mill cutters.Face mill holders equipped with screws and drive keys to assemble the mill cutter to the holder.

-Max speed : 30,000 rpm G2.5

-FACE MILL CUTTER is sold separately.

-FMA刀把適用於平面銑削加工。

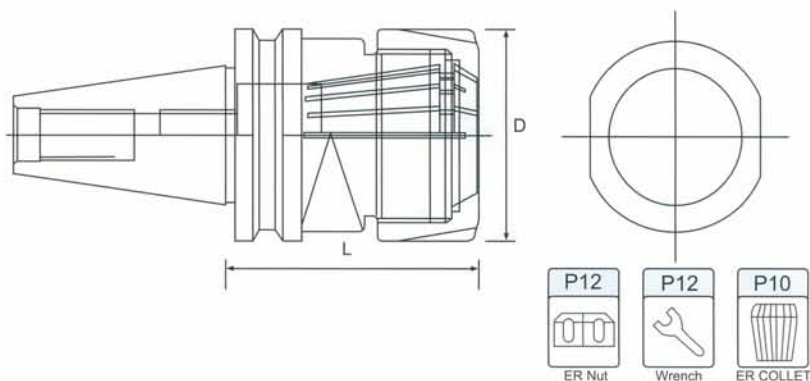
-FMA面銑刀盤為另購品。



NBT HOLDER WITHOUT KEYWAY / NBT30 無鍵槽刀桿

ER COLLET CHUCK-ER- 彈性筒夾本體

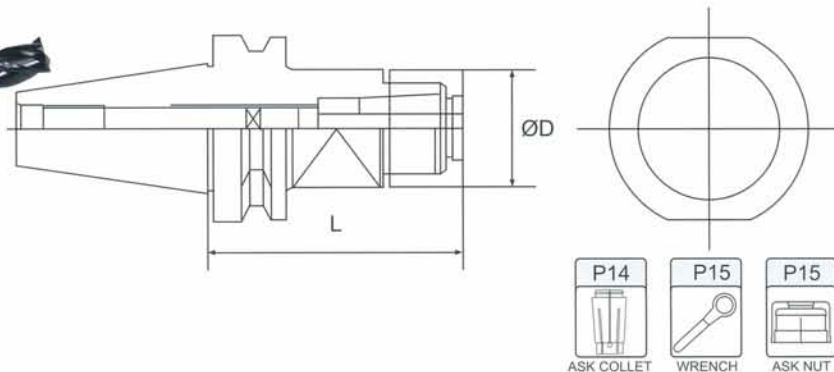
ISO SERIES / NBT SERIES



Model No.	L	D	Clamping Range	Collet Type	Wrench
NBT30-ER16-60	60	28	0.5-10	ER16	WER16
NBT30-ER20-60	60	34	0.5-13	ER20	WER20
NBT30-ER25-60	60	42	0.5-16	ER25	WER25
NBT30-ER25-80	80	42	0.5-16	ER25	WER25
NBT30-ER32-60	60	50	0.5-20	ER32	WER32

- ER COLLET CHUCK with the flexibility and can clamp drill, reamers, end mills and taps.
- ER16/ER20/ER25/ER32 also suitable for ER bearing nut and wrench.
- Wrench not included.
- Max speed: 30,000 r.p.m G2.5
- ER16/ER20/ER25/ER32刀桿可另外選配ER鋼珠螺帽及板手。
- ER板手為另購品。

ASK HIGH SPEED -ASK HIGH SPEED COLLET- 彈性筒夾本體



Model No.	L	D	Clamping Range	Collet Type	Wrench
NBT30-ASK10-80	80	27	2-10	ASK10	WASK10
NBT30-ASK16-85	85	40	3-16	ASK16	WASK16

Features:

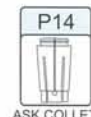
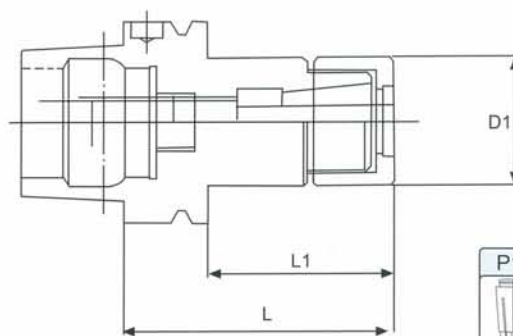
- ASK tooling systems are suitable for high-speed and high precision cutting.
- Special nuts design provided better cutting conditions and reducing cutting vibrations.
- Wrench not included.
- Use the AA grade type ASK collets can be achieve the best cutting condition.
- Max speed: 30,000 r.p.m G2.5
- ASK系列適用於高轉速、高精密切削加工。切削效果佳。
- 螺帽獨特設計：高轉速切削時，降低風阻及切削噪音並提高工作效能
- ASK板手為另購品。。
- Max speed: 30,000r.p.m G2.5



ASK HIGH SPEED COLLET CHUCK

PAT

ASK HIGH SPEED COLLET CHUCK-高轉速精密筒夾本體 HSK40E/HSK50E



Model No.	D1	L1	L	ASK COLLET	COLLET RANGE
HSK40E-ASK06-60	20	40	60	ASK06	ø2~ø6
HSK40E-ASK10-60	27	40	60	ASK10	ø2~ø10
HSK40E-ASK10-75	27	55	75	ASK10	ø2~ø10
HSK40E-ASK16-80	40	60	80	ASK16	ø3~ø16
HSK50E-ASK06-80	20	54	80	ASK06	ø2~ø6
HSK50E-ASK10-60	27	34	60	ASK10	ø2~ø10
HSK50E-ASK10-80	27	54	80	ASK10	ø2~ø10
HSK50E-ASK16-80	40	54	80	ASK16	ø3~ø16

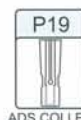
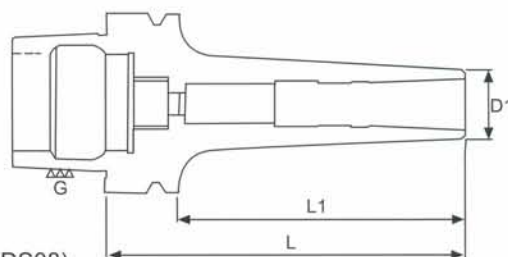
- ASK tooling systems are suitable for high-speed and high precision cutting.
- Special nuts designed provided better cutting conditions and reducing cutting vibrations.
- Wrench not included.
- Use the AA grade type ASK collets can be achieve the best cutting condition.
- Max speed: 40,000 r.p.m G2.5
- ASK系列適用於高轉速、高精密切削加工。切削效果佳。
- 螺帽獨特設計:高轉速切削時,降低風阻及切削噪音並提高工作效能。
- ASK板手為另購品。
- 配合使用AA級ASK筒夾,可達到最好的切削效果。
- Max speed: 40,000 r.p.m G2.5

ADS HIGH SPEED COLLET CHUCK

ADS HIGH SPEED COLLET CHUCK-後拉夾頭刀把 HSK40E/HSK50E



ADS06,ADS08:5mm Hex-Wrench
ADS12,ADS16:8mm Hex-Wrench
夾持刀具使用5mm 六角板手(ADS06,ADS08)
夾持刀具使用8mm 六角板手(ADS12)



Model No.	D1	L1	L	ADS COLLET	COLLET RANGE
HSK40E-ADS06-70	13	50	70	ADS06	ø2~ø6
HSK40E-ADS08-80	16	60	80	ADS08	ø3~ø8
HSK50E-ADS06-75	13	49	75	ADS06	ø2~ø6
HSK50E-ADS08-85	16	59	85	ADS08	ø3~ø8
HSK50E-ADS12-125	23	99	125	ADS12	ø3~ø12

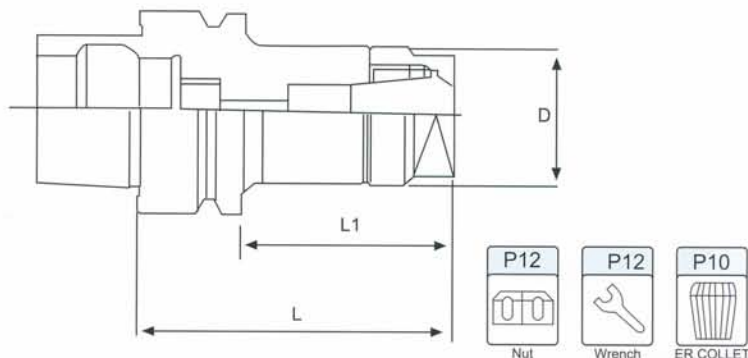
- ADS tooling systems are suitable for high-speed and high precision cutting.
- Tool holder designed without nut that reduce the vibrations for cutting.
- Each ADS tool holder enclosed 1 PC wrench.
- Max speed: 40,000 r.p.m G2.5
- ADS適用於高速精密加工。
- 無螺帽設計:加工時降低物件干涉。筒夾拉後拉式設計;裝取簡易操作。
- 每支刀桿均附1支板手
- Max speed: 40,000 r.p.m G2.5

HSK SERIES E TYPE



ER COLLET CHUCK FOR COLLET TYPER

ER COLLET CHUCK-彈性筒夾本體 HSK40E/HSK50E



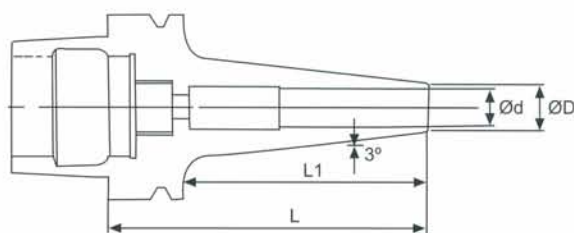
HSK SERIES E TYPE

Model No.	CAPACITY	COLLET	D	L	L1	WRENCH
HSK40E-ER16-80	0.5-10	ER16	28	80	60	WER16
HSK40E-ER20-80	1-13	ER20	34	80	60	WER20
HSK40E-ER25-80	1-16	ER25	42	80	60	WER25
HSK50E-ER16-100	0.5-10	ER16	28	100	74	WER16
HSK50E-ER20-100	1-13	ER20	34	100	74	WER20
HSK50E-ER25-100	1-16	ER25	42	100	74	WER25
HSK50E-ER32-100	2-20	ER32	50	100	74	WER32

- ER collet chuck with the flexibility and can clamp drill, reamers, end mills and taps.
- ER16 / ER20 / ER25 / ER32 are also suitable for ER bearing nut and wrench.
- Wrench not included.
- Max speed: 40,000 r.p.m G2.5
- ER16 / ER20 / ER25 / ER32可另外選配鋼珠螺帽及板手
- ER板手為另購品。
- Max speed: 40,000 r.p.m G2.5

ASR SHRINK CHUCK

SHRINK CHUCK-燒結式刀把 HSK40E/HSK50E



(Unit: mm)

Model No.	Ød	ØD	L	L1
HSK40E-ASR03-80	3	10	80	60
HSK40E-ASR04-80	4	14	80	60
HSK40E-ASR06-80	6	21	80	60
HSK40E-ASR08-80	8	21	80	60
HSK40E-ASR10-80	10	24	80	60
HSK40E-ASR12-80	12	24	80	60
HSK50E-ASR03-80	3	10	80	54
HSK50E-ASR04-80	4	14	80	54
HSK50E-ASR06-80	6	21	80	54
HSK50E-ASR08-80	8	21	80	54
HSK50E-ASR10-80	10	24	80	54
HSK50E-ASR12-80	12	24	80	54

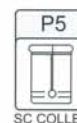
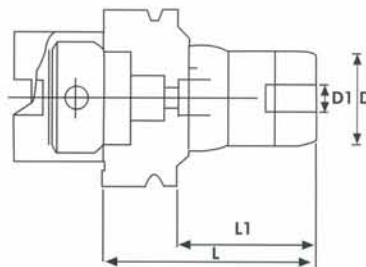
- Heater specification machine.⇒refer to p.21
- Max speed: 40,000 r.p.m
- 刀把加熱器規格請參考⇒ p.21
- 刀具限用鎢鋼刀具。



ASG/ASC MILLING CHUCK

MILLING CHUCK ASG-強力銑刀夾頭

HSK50A/HSK63A/HSK100A

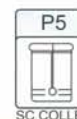
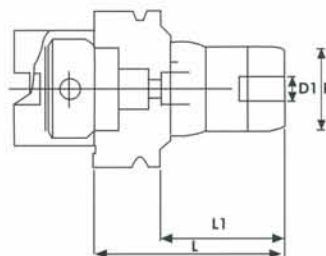


Model No.	CLAMPING RANGE	D	D1	L	L1	COLLET TYPE
HSK50A - ASG12-75	3 -12	35	12	75	49	SC12
HSK50A - ASG16-80	3 -16	46	16	80	54	SC16
HSK63A - ASG12-75	3 -12	35	12	75	49	SC12
HSK63A - ASG12-95	3 -12	35	12	95	69	SC12
HSK63A - ASG16-80	3 -16	46	16	80	54	SC16
HSK63A - ASG16-100	3 -16	46	16	100	74	SC16
HSK63A - ASG20-85	4 -20	54	20	85	59	SC20
HSK63A - ASG32-115	6 -32	68	32	115	89	SC32
HSK100A-ASG12-80	3 -12	35	12	80	51	SC12
HSK100A-ASG16-115	3 -16	46	16	115	86	SC16
HSK100A-ASG20-115	4 -20	54	20	115	86	SC20
HSK100A-ASG32-115	6 -32	68	32	115	86	SC32

- ASG tooling systems are suitable for high-speed and high precision cutting.
- WASG12 / WASG16 / WASG20 / WASG32 bearing wrenches are sold separately.
- Dust-proof design: To Extend tool holder lifetime.
- Max speed: 30,000 r.p.m G2.5
- ASG刀具系列用於高轉速、高精密切削加工。切削效果佳。
- ASG12 / ASG16 / ASG20 / ASG32軸承板手為另購品
- 特殊防塵設計,提昇刀桿壽命。
- Max speed: 30,000 r.p.m G2.5

MILLING CHUCK ASC-強力銑刀夾頭

HSK50A/HSK63A/HSK100A



Model No.	CLAMPING RANGE	D	D1	L	L1	COLLET TYPE
HSK50A - ASC16-80	3 -16	46	16	80	54	SC16
HSK63A - ASC16-80	3 -16	46	16	80	54	SC16
HSK63A - ASC16-100	3 -16	46	16	100	74	SC16
HSK63A - ASC20-85	4 -20	53	20	85	59	SC20
HSK100A-ASC16-115	3 -16	46	16	115	86	SC16
HSK100A-ASC20-115	4 -20	53	20	115	86	SC20

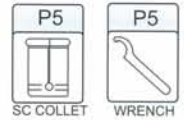
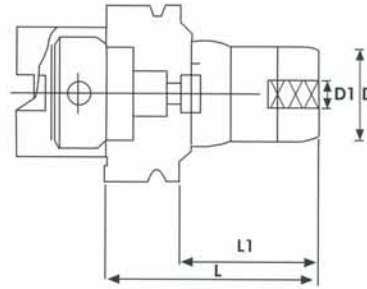
- ASC tooling systems are suitable for high-speed and high precision cutting.
- Each ASC MILLING CHUCK attached 1 PC C-TYPE wrench.
- Dust-proof design: To Extend tool holder lifetime.
- Max speed: 30,000 r.p.m G2.5
- ASC刀具系列用於高轉速、高精密切削加工。切削效果佳。
- ASC16/ASC20/ASC25/ASC32刀桿均附C型板手。
- 特殊防塵設計,提昇刀桿壽命。
- Max speed: 30,000 r.p.m G2.5

HSK SERIES A TYPE



ASC MILLING CHUCK

MILLING CHUCK ASC-強力銑刀夾頭 HSK63A/HSK100A



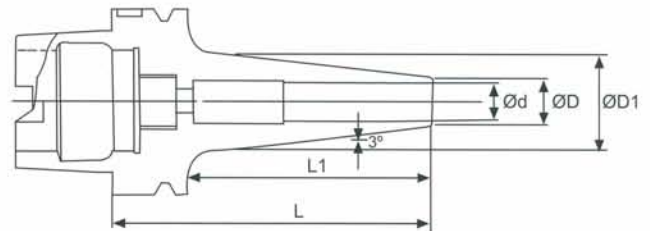
Model No.	CLAMPING RANGE	D	D1	L	L1	COLLET TYPE
HSK63A-ASC25-105	6 -25	58	25	105	79	SC25
HSK63A-ASC32-105	6 -32	68	32	105	79	SC32
HSK100A-ASC25-110	6 -25	64	25	110	81	SC25
HSK100A-ASC32-110	6 -32	76	32	110	81	SC32

- ASC tooling systems are suitable for high-speed and high precision cutting.
- Each ASC MILLING CHUCK attached 1PC C-TYPE wrench.
- Max speed: 30,000 r.p.m G2.5
- ASC刀具系列用於高轉速、高精密切削加工。切削效果佳。
- ASC25/ASC32刀桿均附C型扳手。
- Max speed: 30,000 r.p.m G2.5

HSK SERIES A TYPE

ASR SHRINK CHUCK

SHRINK CHUCK-燒結式刀把 HSK63A



(Unit: mm)

Model No.	Ød	ØD	ØD1	L	L1
HSK63A-ASR04-90	4	14	20	90	64
HSK63A-ASR05-90	5	16	22	90	64
HSK63A-ASR06-90	6	16	22	90	64
HSK63A-ASR08-90	8	18	24	90	64
HSK63A-ASR10-90	10	22	28	90	64
HSK63A-ASR12-90	12	24	30	90	64
HSK63A-ASR16-90	16	28	34	90	64
HSK63A-ASR20-100	20	34	40	100	74
HSK63A-ASR25-115	25	44	50	115	89
HSK63A-ASR32-120	32	44	50	120	94

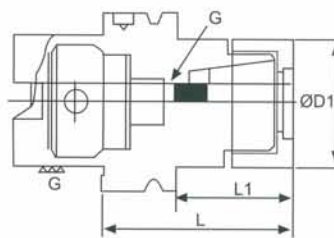
- Heater specification machine.⇒refer to p.21
- Max speed: 40,000 r.p.m G2.5
- 刀把加熱器規格請參考⇒ p.21
- 刀具限用鎢鋼刀具。



ASK HIGH SPEED COLLET CHUCK

ASK HIGH SPEED COLLET CHUCK-高轉速精密筒夾本體

HSK40A/HSK50A/HSK63A/HSK100A



ASK COLLET

WRENCH

Model No.	D1	L1	L	G	COLLET	CLAMPING RANGE
HSK40A-ASK10-55	27	35	55	M10x1.5P	ASK10	ø2-ø10
HSK50A-ASK06-60	20	34	60	M10x1.5P	ASK06	ø2-ø6
HSK50A-ASK10-60	27	34	60	M10x1.5P	ASK10	ø2-ø10
HSK50A-ASK16-80	40	54	80	M16x2.0P	ASK16	ø3-ø16
HSK63A-ASK06-80	20	54	80	M10x1.5P	ASK06	ø2-ø6
HSK63A-ASK10-60	27	34	60	M10x1.5P	ASK10	ø2-ø10
HSK63A-ASK10-80	27	54	80	M10x1.5P	ASK10	ø2-ø10
HSK63A-ASK10-100	27	74	100	M10x1.5P	ASK10	ø2-ø10
HSK63A-ASK16-80	40	54	80	M16x2.0P	ASK16	ø3-ø16
HSK63A-ASK25-90	54	64	90	M24x3.0P	ASK25	ø6-ø25.4
HSK100A-ASK10-105	27	76	105	M10x1.5P	ASK10	ø2-ø10
HSK100A-ASK16-105	40	76	105	M16x2.0P	ASK16	ø3-ø16
HSK100A-ASK25-120	54	94	120	M24x3.0P	ASK25	ø6-ø25.4

- ASK tooling systems are suitable for high-speed and high precision cutting.
- Special nuts designed provided better cutting conditions and reducing cutting vibrations.
- Wrench not included.
- Use the AA grade type ASK collets can be achieve the best cutting condition.
- Max speed: 40,000 r.p.m G2.5
- ASK系列適用於高轉速、高精密切削加工。切削效果佳。
- 螺帽獨特設計:高轉速切削時,降低風阻及切削噪音並提高工作效能。
- ASK扳手為另購品。

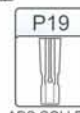
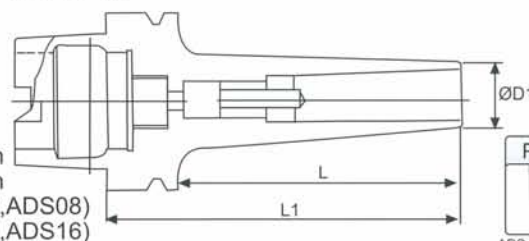
ADS HIGH SPEED COLLET CHUCK

ADS HIGH SPEED COLLET CHUCK-後拉夾頭刀把

HSK50A/HSK63A/HSK100A



ADS06,ADS08:5mm Hex-Wrench
ADS12,ADS16:8mm Hex-Wrench
夾持刀具使用5mm 六角扳手(ADS06,ADS08)
夾持刀具使用8mm 六角扳手(ADS12,ADS16)



ADS COLLET

Model No.	D1	L	L1	CLAMPING RANGE
HSK50A-ADS08-85	16	59	85	ø3-ø8
HSK50A-ADS12-125	23	99	125	ø3-ø12
HSK63A-ADS06-75	13	34	75	ø2-ø6
HSK63A-ADS06-95	13	45	95	ø2-ø6
HSK63A-ADS06-120	13	53	120	ø2-ø6
HSK63A-ADS06-150	13	80	150	ø2-ø6
HSK63A-ADS08-100	16	74	100	ø3-ø8
HSK63A-ADS12-125	23	99	125	ø3-ø12
HSK63A-ADS16-125	28	99	125	ø5-ø16
HSK100A-ADS08-130	16	101	130	ø3-ø8
HSK100A-ADS12-130	23	101	130	ø3-ø12
HSK100A-ADS16-130	28	101	130	ø5-ø16

- ADS tooling systems are suitable for high-speed and high precision cutting.
- Tool holder designed without nut that reduce the vibrations of cutting.
- Each ADS to holder enclosed 1PC wrench.
- Max speed: 40,000 r.p.m G2.5
- ADS適用於高速精密加工。
- 無螺帽設計:加工時降低物件干涉。筒夾拉後拉式設計;裝取簡易操作。
- 每支刀桿均附1支扳手

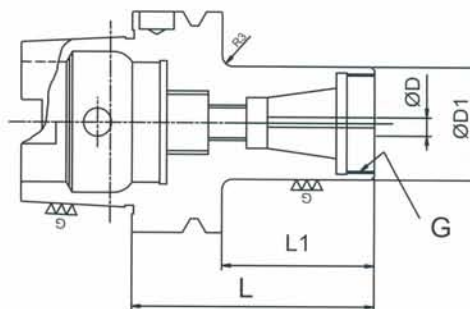
HSK SERIES A TYPE



ERA HIGH SPEED COLLET CHUCK

ERA COLLET CHUCK-高速彈性筒夾本體

HSK50A/HSK63A/HSK100A



HSK SERIES A TYPE

Model No.	ØD CAPACITY	L	L1	ØD1	G
HSK50A - ERA11-60	1-7	60	34	22	M18x1P
HSK50A - ERA16-70	1-10	70	44	28	M24x1P
HSK50A - ERA20-70	2-13	70	44	32	M28x1.5P
HSK50A - ERA25-75	2-16	75	49	38	M32x1.5P
HSK63A - ERA11-60	1-7	60	34	22	M18x1P
HSK63A - ERA16-70	1-10	70	61	28	M24x1P
HSK63A - ERA20-70	2-13	70	61	32	M28x1.5P
HSK63A - ERA25-75	2-16	75	51	38	M32x1.5P
HSK63A - ERA32-85	3-20	85	59	46	M40x1.5P
HSK100A-ERA11-65	1-7	65	36	22	M18x1P
HSK100A-ERA16-75	1-10	75	46	28	M24x1P
HSK100A-ERA20-75	2-13	75	46	32	M28x1.5P
HSK100A-ERA25-80	2-16	80	51	38	M32x1.5P
HSK100A-ERA32-90	3-20	90	61	46	M40x1.5P

- The new type ERA holder is available for ER COLLETS and easy to get.
- The clamping nuts for ERA are special designed to be fitted internally into the holder.
The special design could provide better cutting conditions and reducing cutting vibrations.
- Wrench not included.
- Max speed: 30,000 r.p.m G2.5
- ERA板手為另購品。

ERA NUT & WRENCH-螺帽、板手

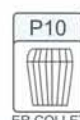
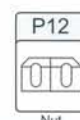
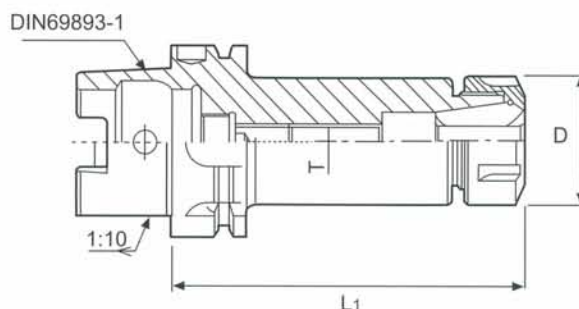


Model No.	B	C	COLLET TYPE	FIG.
ERA11-NUT	6	M18x1P	ER11	1
ERA16-NUT	8	M24x1P	ER16	1
ERA20-NUT	11	M28x1.5P	ER20	1
ERA25-NUT	12.5	M32x1.5P	ER25	1
ERA32-NUT	14	M40x1.5P	ER32	1
WERA11	Wrench for ERA11 TOOL HOLDER -ERA11板手			2
WERA16	Wrench for ERA16 TOOL HOLDER -ERA16板手			2
WERA20	Wrench for ERA20 TOOL HOLDER -ERA20板手			2
WERA25	Wrench for ERA25 TOOL HOLDER -ERA25板手			2
WERA32	Wrench for ERA32 TOOL HOLDER -ERA32板手			2



ER COLLET CHUCK

ER COLLET CHUCK-彈性筒夾本體 HSK50A/HSK63A/HSK100A



HSK SERIES A TYPE

Model No.	CAPACITY	COLLET	L1	D	WRENCH
HSK50A-ER16-80	0.5-10	ER16	80	28	WER16
HSK50A-ER20-80	1-13	ER20	80	34	WER20
HSK50A-ER25-80	1-16	ER25	80	42	WER25
HSK50A-ER32-100	2-20	ER32	100	50	WER32
HSK63A-ER16-80	0.5-10	ER16	80	28	WER16
HSK63A-ER16-100	0.5-10	ER16	100	28	WER16
HSK63A-ER16-120	0.5-10	ER16	120	28	WER16
HSK63A-ER20-80	1-13	ER20	80	34	WER20
HSK63A-ER20-100	1-13	ER20	100	34	WER20
HSK63A-ER20-120	1-13	ER20	120	34	WER20
HSK63A-ER25-80	1-16	ER25	80	42	WER25
HSK63A-ER25-100	1-16	ER25	100	42	WER25
HSK63A-ER25-120	1-16	ER25	120	42	WER25
HSK63A-ER32-80	2-20	ER32	80	50	WER32
HSK63A-ER32-100	2-20	ER32	100	50	WER32
HSK63A-ER32-150	2-20	ER32	150	50	WER32
HSK63A-ER40-80	3-26	ER40	80	63	WER40
HSK63A-ER40-100	3-26	ER40	100	63	WER40
HSK63A-ER40-150	3-26	ER40	150	63	WER40
HSK100A-ER16-100	0.5-10	ER16	100	28	WER16
HSK100A-ER16-160	0.5-10	ER16	160	28	WER16
HSK100A-ER20-100	1-13	ER20	100	34	WER20
HSK100A-ER20-160	1-13	ER20	160	34	WER20
HSK100A-ER25-100	1-16	ER25	100	42	WER25
HSK100A-ER25-160	1-16	ER25	160	42	WER25
HSK100A-ER32-100	2-20	ER32	100	50	WER32
HSK100A-ER32-160	2-20	ER32	160	50	WER32
HSK100A-ER40-100	3-26	ER40	100	63	WER40
HSK100A-ER40-160	3-26	ER40	160	63	WER40

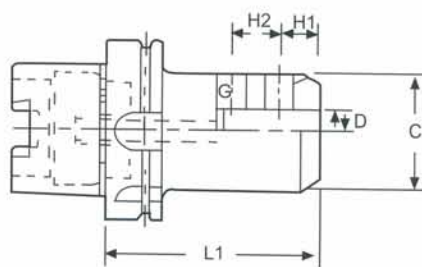
- ER COLLET CHUCK with the flexibility and can clamp drill, reamers, end mills and taps.
- ER16/ ER20 holder can make M type as your choice.
- ER16/ ER20/ER25/ER32/ER40 are also suitable for ER bearing nut and wrench.⇒refer to p.12
- Wrench not included.
- Max speed: 30,000 r.p.m G2.5
- ER16/ ER20刀桿有M型可供選擇.
- ER16/ ER20/ER25/ER32/ER40刀桿可另外選配鋼珠螺帽及扳手.請參考p.12
- ER扳手為另購品。



SLA/EM END MILL HOLDER

SLA END MILL HOLDER -側固端銑刀把

HSK50A/HSK63A

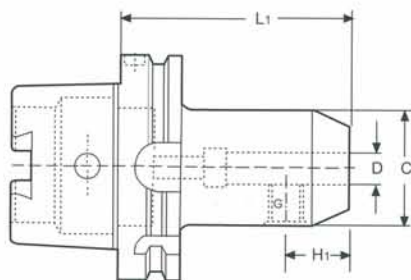


Model No.	D	C	L1	H1	H2	G
HSK50A-SLA06-80	6	25	80	12	10	M6x1.0P
HSK50A-SLA08-80	8	28	80	14	12	M8x1.25P
HSK50A-SLA10-80	10	35	80	15	14	M10x1.5P
HSK50A-SLA12-80	12	42	80	18	16	M10x1.5P
HSK50A-SLA16-90	16	48	90	20	18	M10x1.5P
HSK50A-SLA20-90	20	52	90	25	20	M12x1.75P
HSK63A-SLA06-80	6	25	80	12	10	M6x1.0P
HSK63A-SLA08-80	8	28	80	14	12	M8x1.25P
HSK63A-SLA10-80	10	35	80	15	14	M10x1.5P
HSK63A-SLA12-80	12	42	80	20	16	M10x1.5P
HSK63A-SLA16-100	16	48	100	20	18	M10x1.5P
HSK63A-SLA20-100	20	52	100	25	20	M12x1.75P
HSK63A-SLA25-110	25	65	110	25	22	M12x1.75P
HSK63A-SLA32-110	32	72	110	30	22	M16x2.0P

- For straight shank end mills.
- End mills are held by two set screws.
- End mill holders come equipped with set screws.
- Max speed: 30,000 r.p.m G2.5
- 適用於夾持銑刀可用在一般切削加工

EM END MILL HOLDER -側固端銑刀把

HSK50A/HSK63A



Model No.	D	C	L1	H1	G
HSK50A-EM6-65	6	25	65	18	M6X1.0P
HSK50A-EM8-65	8	28	65	18	M8X1.25P
HSK50A-EM10-65	10	35	65	20	M10X1.5P
HSK50A-EM12-80	12	42	80	22.5	M10X1.5P
HSK50A-EM16-80	16	48	80	24	M10X1.5P
HSK50A-EM20-80	20	52	80	25	M12X1.75P
HSK63A-EM6-65	6	25	65	18	M6X1.0P
HSK63A-EM8-65	8	28	65	18	M8X1.25P
HSK63A-EM10-65	10	35	65	20	M10X1.5P
HSK63A-EM12-65	12	42	80	22.5	M10X1.5P
HSK63A-EM16-80	16	48	80	24	M10X1.5P
HSK63A-EM20-80	20	52	80	25	M12X1.75P
HSK63A-EM25-110	25	65	110	24	M12X1.75P
HSK63A-EM32-110	32	72	110	24	M16X2.0P

- For straight shank end mills.
- End mills are held by one or two set screws.
- End mill holders come equipped with set screws.
- Max speed: 30,000 r.p.m G2.5
- 適用於夾持銑刀可用在一般切削加工

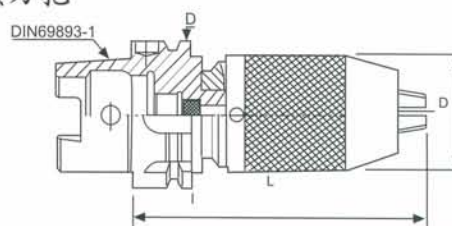


APU DRILL CHUCK HOLDER

APU DRILL CHUCK HOLDER-直截式鑽夾頭刀把 HSK40A/HSK50A/HSK63A/HSK100A



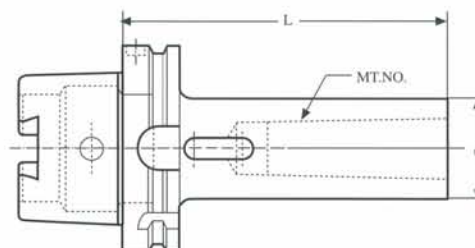
- The shank and keyless drill chuck are combined together so that to avoid the drill chuck slipping out for heavy-duty and high-speed cutting.
- Each APU drill chuck attached 1 PC APU wrench.
- Max speed: 30,000 r.p.m G2.5
- APU刀桿和鑽夾頭結為一體，用於重型及高速切削時鑽頭不會掉落或鬆脫



Model No.	Clamping range	D	L
HSK40A-APU08-120	1-8	36.3	120
HSK50A-APU08-120	1-8	63.3	120
HSK63A-APU08-120	1-8	36.3	120
HSK63A-APU13-150	1-13	51.5	150
HSK63A-APU16-155	3-16	58	155
HSK100A-APU13-155	1-13	51.5	155
HSK100A-APU16-160	3-16	58	160

MTA MORSE TAPER HOLDER

MORSE TAPER HOLDER-莫氏斜度刀把 HSK50A/HSK63A



Model No.	MTA.NO	L	C
HSK50A-MTA1-100	MTA1	100	25
HSK50A-MTA2-100	MTA2	100	32
HSK50A-MTA3-140	MTA3	140	40
HSK63A-MTA1-100	MTA1	100	25
HSK63A-MTA2-120	MTA2	120	32
HSK63A-MTA3-140	MTA3	140	40
HSK63A-MTA4-160	MTA4	160	48

- HSK tool holder for morse taper shank with internal tang
- Max speed: 30,000 r.p.m G2.5

FMB-FACE MILL ARBOR-面銑刀柄 HSK50A/HSK63A

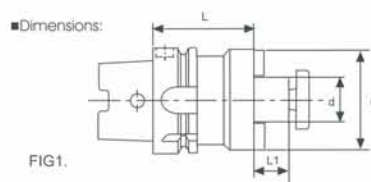


FIG1.

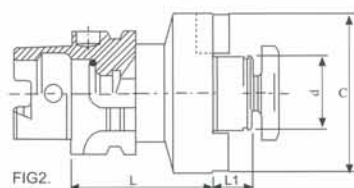
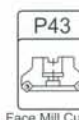


FIG2.



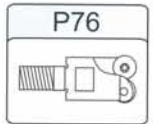
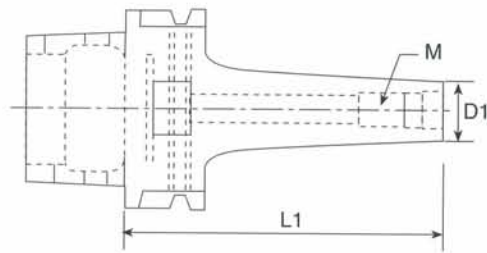
Model No.	d	L	C	L1	fig
HSK50A-FMB16-45	16	45	32	17	1
HSK50A-FMB22-50	22	50	40	19	1
HSK50A-FMB27-55	27	55	48	21	2
HSK63A-FMB16-50	16	50	40	17	1
HSK63A-FMB22-55	22	55	40	19	1
HSK63A-FMB27-45	27	45	48	21	1
HSK63A-FMB32-55	32	55	58	24	2

- Tool holder with HSK shank for clamping face mill cutters.
- Face mill holders equipped with screws and drive keys to assemble the face mill cutter to the holder.
- Max speed: 30,000 r.p.m G2.5

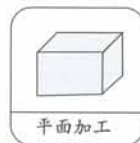


SCREW-IN ENDMILL ARBOR / AMD

HSK50A/HSK63A-圓刀銑刀把



- For "曲面加工", "平面加工", "R角加工",
- Max speed: 40,000 r.p.m G2.5

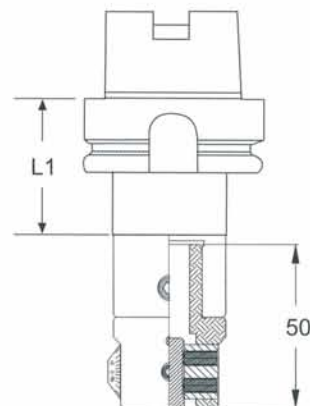


Model No.	M	D1	L1
HSK63A-AMD122-80	8	13	80
HSK63A-AMD122-100	8	13	100
HSK63A-AMD123-80	6	11	80
HSK63A-AMD162-80	8	13	80
HSK63A-AMD162-100	8	13	100
HSK63A-AMD202-80	10	18	80
HSK63A-AMD202-100	10	18	100
HSK63A-AMD253-80	12	21	80
HSK63A-AMD253-100	12	21	100
HSK63A-AMD354-80	16	29	80
HSK63A-AMD354-100	16	29	100

HSK SERIES A TYPE

NBJ16 MICRO BORING BAR

NBJ16 MICRO BORING SYSTEM -NBJ16-微調搪孔系統



(Unit: mm)

MODEL NO.	BORING RANGE	L1
HSK63A-NBJ16	06-51	65

- NBJ16 is a small diameter boring system. In which diameter size, the boring range could be from 6~51mm.
- NBJ16 boring head can match BM1625 series for optional it can extend boring range to 68mm. (6-68mm)⇒refer to p87
- NBJ16 boring bar according to your request to choice.
- NBJ16 boring bar and BJ16 8PCS must buy separately.⇒refer to p84
- NBJ16 微調搪孔系統: 搪孔範圍6~51mm.
- NBJ16 搪孔刀頭可另選配BM1625系列, 可使搪孔範圍延展至68mm. (6-68mm)⇒refer to p87
- NBJ16 搪孔刀桿可依據需求自由選配。
- NBJ16 搪孔刀桿及BJ16 8PCS搪刀組為另購品。⇒請參考 p84



HBOR50 MICRO BORING BAR

HBOR50 MICRO BORING SYSTEM-HBOR50 SET-微調搪孔系統組



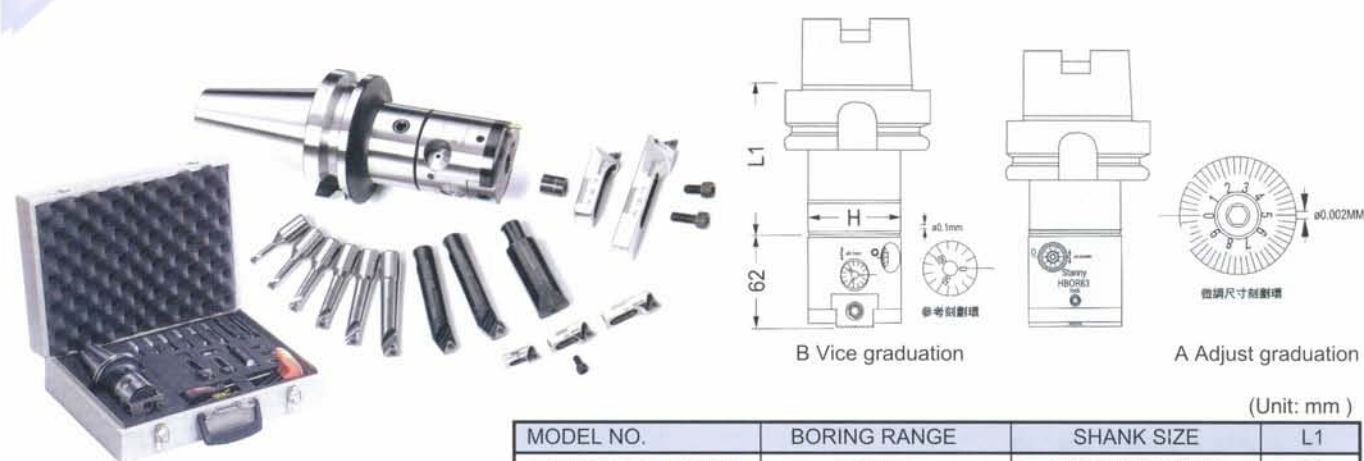
(Unit: mm)

MODEL NO.	BORING RANGE	SHANK SIZE	L1
HSK63A-HBOR50/SET	06-90	HSK63A-ACK5-50	50

- HBOR50 is a set refers to micro finish boring system in which diameter size ranges from 6~90mm.
- The inside diameter of HBOR50 micro finish boring system is 16mm. With the combination of BR series the diameter of HBOR50 can be with in the range of 6~90mm now.
- All set HBOR50 micro boring bar NOT including inserts.
- HBOR50 boring set \Rightarrow refer to p89
- HBOR50 微調搪孔系統組; 搪孔範圍6~90mm.
- HBOR50 極細微調搪孔本體中的內孔 \varnothing 16。組合BR系列小徑精搪孔刀桿使搪孔徑範圍6~90mm。更為完整搪孔範圍組合。
- HBOR50 整組規格。 \Rightarrow 請參考 p89

HBOR63 MICRO BORING BAR

HBOR63 MICRO BORING SYSTEM-HBOR63 SET-微調搪孔系統組



(Unit: mm)

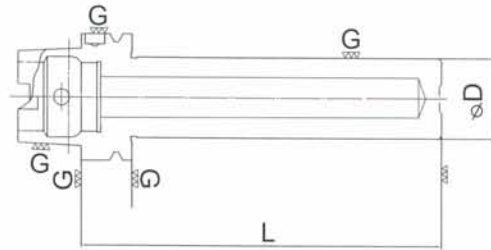
MODEL NO.	BORING RANGE	SHANK SIZE	L1
HSK63A-HBOR63/SET	06-150	HSK63A-ACK6-67	67

- HBOR63 is a set refers to micro finish boring system in which diameter size ranges from 6~150mm.
- The inside diameter of HBOR63 micro finish boring system is 16mm. With the combination of BR series the diameter of HBOR63 can be with in the range of 6~150mm now.
- HBOR63 boring head can match BM140 series for optional, it can extend boring range to 280mm (6-280mm) \Rightarrow refer to p91
- All set HBOR63 micro boring bar NOT including inserts.
- HBOR63 boring set \Rightarrow refer to p90
- HBOR63 微調搪孔系統組; 搪孔範圍6~150mm.
- HBOR63 極細微調搪孔本體中的內孔 \varnothing 16。組合BR系列小徑精搪孔刀桿使搪孔徑範圍6~150mm。更為完整搪孔範圍組合。
- HBOR63 極細微調搪孔組可另選配BM140系列, 使其搪孔範圍延展至280mm(6~280mm) \Rightarrow 請參考 p91
- HBOR63 整組規格。 \Rightarrow 請參考 p90



TA / TEST BAR

HSK50A/HSK63A/HSK100A-TA-測試棒



(Unit: mm)

MODEL NO.	D	L
HSK50A-TA30-200	30	200
HSK63A-TA40-200	40	200
HSK63A-TA40-300	40	300
HSK100A-TA50-300	50	300

- Test arbors are used to measure the runout of machine spindle.

TOOL LOCKING DEVICE

HSK50/HSK63/HSK100-A+C TYPE-FIG.1-鎖刀座

HSK40/HSK50-A+C+E BEARING TYPE-FIG.2-鎖刀座



FIG.1

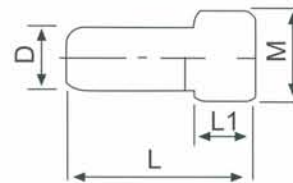


FIG.2

MODEL NO.	FIG
HSK50A+C-鎖刀座-FIG.1	FIG.1
HSK63A+C-鎖刀座-FIG.1	
HSK100A+C-鎖刀座-FIG.1	
HSK40A+C+E-鎖刀座-FIG.2	FIG.2(BEARING TYPE)
HSK50A+C+E-鎖刀座-FIG.2	

HSK63A ACCESSORIES

COOLANT SUPPLY UNIT-HSK63A型專用冷卻液管



MODEL NO.	D	L	L1	M
HSK63A-M18	12	36	11.4	M18xP1.5

HSK63A ACCESSORIES

COOLANT SUPPLY UNIT WRENCH-導管扳手



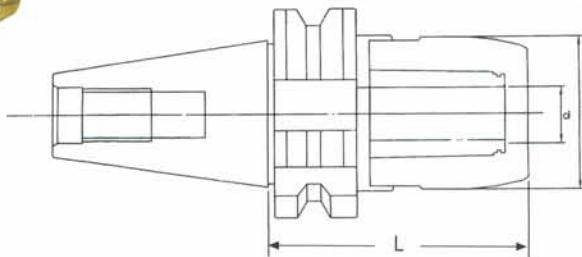
MODEL NO.
HSK63A-T



ASG HIGH SPEED MILLING CHUCK

PAT

MILLING CHUCK-ASG- 高轉速精密強力銑刀夾頭 SK40/SK50-DIN69871A



Model No.	Clamping Range	d	D	L	Collet Type
SK40-ASG12-75	3~12	12	35	75	SC12
SK40-ASG12-95	3~12	12	35	95	SC12
SK40-ASG16-90	3~16	16	46	90	SC16
SK40-ASG20-90	4~20	20	54	90	SC20
SK50-ASG12-75	3~12	12	35	75	SC12
SK50-ASG12-90	3~12	12	35	90	SC12
SK50-ASG16-100	3~16	16	46	100	SC16
SK50-ASG20-100	4~20	20	54	100	SC20

- ASG tooling systems are suitable for high-speed and high precision cutting.
- WASG12,WASG16,WASG20,WASG32 bearing wrenches are sold separately.
- Dust-proof design: To extend tool holder lifetime.
- Max speed: 30,000 r.p.m G2.5
- ASG 刀具系列用於高轉速、高精密切削加工。切削效果佳。
- ASG12/ASG16/ASG20/ASG32軸承扳手為另購品
- 特殊防塵設計,提升刀桿壽命
- Max speed: 30,000r.p.m G2.5

SK SERIES DIN69871A



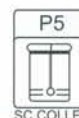
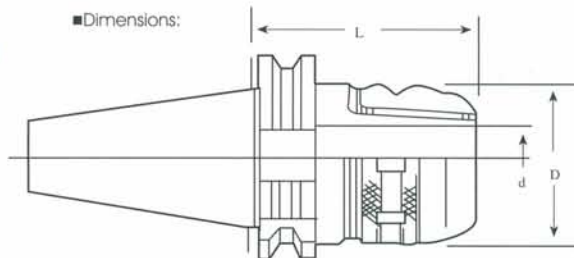
ASC MILLING CHUCK

PAT.

MILLING CHUCK-ASC- 強力銑刀夾頭 SK40/SK50-DIN69871A



■Dimensions:

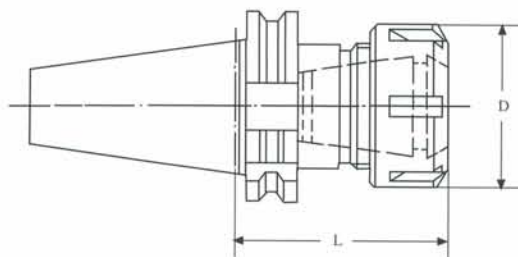


Model No.	Clamping Range	d	D	L	Collet Type
SK40-ASC25-95	6~25	25	58	95	SC25
SK40-ASC25-130	6~25	25	58	130	SC25
SK40-ASC32-95	6~32	32	68	95	SC32
SK40-ASC32-130	6~32	32	68	130	SC32
SK50-ASC25-95	6~25	25	58	95	SC25
SK50-ASC25-150	6~25	25	58	150	SC25
SK50-ASC32-105	6~32	32	68	105	SC32
SK50-ASC32-150	6~32	32	68	150	SC32
SK50-ASC42-110	6~42	42	84	110	SC42
SK50-ASC42-160	6~42	42	84	160	SC42

- Each ASC milling chuck attached 1 PC ASC C-type wrench.
- 每支ASC刀桿均附1支扳手

AN ER COLLET CHUCK FOR ER COLLET TYPE

ER COLLET CHUCK- 彈性筒夾本體 SK40/SK50-DIN69871A



Model No.	Clamping Range	L	D	Collet Type	Wrench
SK40-ER16-63	0.5~10	63	28	ER16	WER16
SK40-ER16-100	0.5~10	100	28	ER16	WER16
SK40-ER16-160	0.5~10	160	28	ER16	WER16
SK40-ER20-100	0.5~13	100	34	ER20	WER20
SK40-ER25-60	0.5~16	60	42	ER25	WER25
SK40-ER32-70	1~20	70	50	ER32	WER32
SK40-ER40-80	2~26	80	63	ER40	WER40
SK50-ER16-100	0.5~10	100	28	ER16	WER16
SK50-ER16-160	0.5~10	160	28	ER16	WER16
SK50-ER20-100	0.5~13	100	34	ER20	WER20
SK50-ER25-100	0.5~16	100	42	ER25	WER25
SK50-ER32-70	1~20	70	50	ER32	WER32
SK50-ER40-80	2~26	80	63	ER40	WER40

-ER COLLET CHUCK with the flexibility and can clamp drill, reamers, end mills and taps.

-ER11/ ER16 /ER20 holder can make M type as your choice.

-ER16 /ER20 /ER25 /ER32 /ER40 are also suitable for ER bearing nut and wrench.

-Wrench not included.

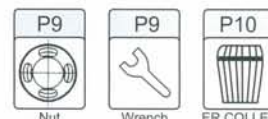
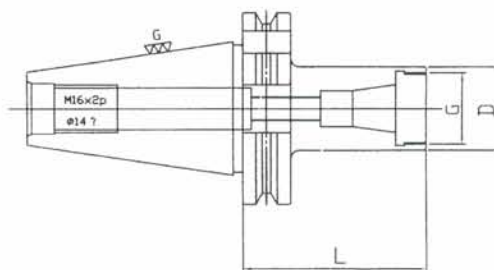
-ER11/ ER16 /ER20 刀桿另有M型可供選擇。

-ER16 /ER20 /ER25 /ER32/ER40刀桿可另外選配鋼珠螺帽及扳手。

-ER板手為另購品。

AN ERA HIGH SPEED COLLET CHUCK

ERA COLLET CHUCK- 高轉速彈性筒夾本體 SK40/SK50-DIN69871A



Model No.	D	L	G
SK40-ERA11-60	22	60	M18x1P
SK40-ERA16-60	28	60	M24x1P
SK40-ERA20-70	32	70	M28x1.5P
SK40-ERA25-70	38	70	M32x1.5P
SK40-ERA32-80	46	80	M40x1.5P
SK50-ERA11-60	22	60	M18x1P
SK50-ERA16-60	28	60	M24x1P
SK50-ERA20-70	32	70	M28x1.5P
SK50-ERA25-70	38	70	M32x1.5P
SK50-ERA32-80	46	80	M40x1.5P

Features:

- The new holder is available for ER COLLETS and easy to get.

- The clamping nuts for ERA are special designed to be fitted internally into the holder. The special design could provide better cutting conditions and reducing cutting vibrations.

- Max speed:30,000 r.p.m G2.5

- Wrench not included.

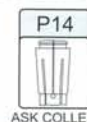
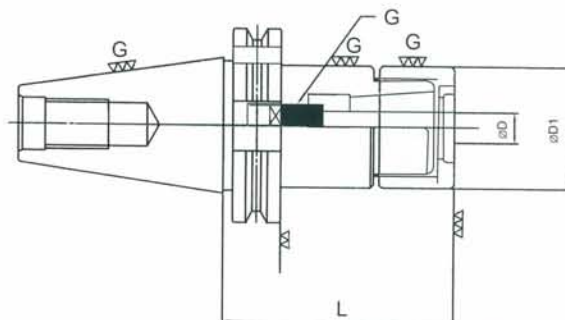
-特殊內藏式螺帽設計：可降低及減少切削時所產生的阻力與振動，並提昇加工品質及穩定性。

-ERA板手為另購品



ASK HIGH SPEED COLLET CHUCK

ASK HIGH SPEED COLLET CHUCK 高轉速精密筒夾本體 SK30/SK40/SK50-DIN69871A



MODEL NO.	D1	L	Clamping Range
SK30-ASK6-55	20	55	2-6
SK30-ASK10-70	27	70	2-10
SK30-ASK10-95	27	95	2-10
SK30-ASK16-85	40	85	3-16
SK30-ASK16-100	40	100	3-16
SK30-ASK25-85	54	85	6-25.4
SK40-ASK6-70	20	70	2-6
SK40-ASK6-100	20	100	2-6
SK40-ASK10-80	27	80	2-10
SK40-ASK10-100	27	100	2-10
SK40-ASK16-80	40	80	3-16
SK40-ASK16-100	40	100	3-16
SK40-ASK25-95	54	95	6-25.4
SK40-ASK25-110	54	110	6-25.4
SK50-ASK6-80	20	80	2-6
SK50-ASK10-100	27	100	2-10
SK50-ASK10-130	27	130	2-10
SK50-ASK16-100	40	100	3-16
SK50-ASK16-130	40	130	3-16
SK50-ASK16-150	40	150	3-16
SK50-ASK25-100	54	100	6-25.4
SK50-ASK25-130	54	130	6-25.4
SK50-ASK25-150	54	150	6-25.4

Features:

- ASK tooling systems are suitable for high-speed and high precision cutting.
- Special nuts design provided better cutting conditions and reducing cutting vibrations.
- Wrench not included.
- Use the AA grade type ASK collets can be achieve the best cutting condition.
- Max speed: 30,000 r.p.m G2.5

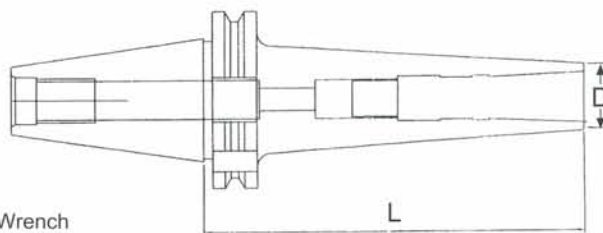
- ASK系列適用於高轉速、高精密切削加工。切削效果佳。
- 螺帽獨特設計：高轉速切削時，降低風阻及切削噪音並提高工作效能
- ASK板手為另購品。
- Max speed: 30,000r.p.m G2.5

SK SERIES DIN69871A



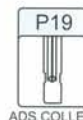
ADS HIGH SPEED COLLET CHUCK

ADS HIGH SPEED COLLET CHUCK-後拉夾頭刀把 SK40/SK50-DIN69871A



ADS06,ADS08:5mm Hex-Wrench
ADS12,ADS16:8mm Hex-Wrench

- 夾持刀具使用5mm六角板手(ADS06,ADS08)
- 夾持刀具使用8mm六角板手(ADS12,ADS16)



Model No.	D	L	Clamping Range
SK40-ADS06-60	13	60	Ø2~Ø6
SK40-ADS06-90	13	90	Ø2~Ø6
SK40-ADS06-120	13	120	Ø2~Ø6
SK40-ADS06-150	13	150	Ø2~Ø6
SK40-ADS08-90	16	90	Ø3~Ø8
SK40-ADS08-120	16	120	Ø3~Ø8
SK40-ADS12-90	23	90	Ø3~Ø12
SK40-ADS12-135	28	135	Ø3~Ø12
SK40-ADS16-95	28	95	Ø8~Ø16
SK50-ADS08-100	16	100	Ø3~Ø8
SK50-ADS12-100	23	100	Ø3~Ø12
SK50-ADS16-100	28	100	Ø8~Ø16

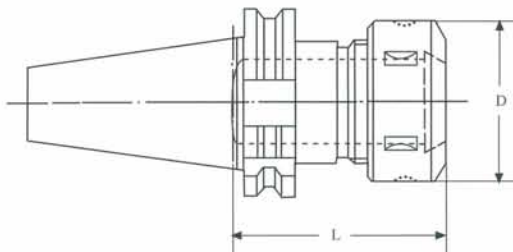
- ADS tooling systems are suitable for high-speed and high precision cutting. Tool holder designed without nut that reduce the vibration of cutting. Each ADS tool holder enclosed 1PC wrench.
- Max speed: 30,000 r.p.m G2.5
- ADS 刀桿適用於高速精密加工。無螺帽設計，加工時降低物件干涉。筒夾後拉式設計：裝取簡易操作。
- 每支刀桿附1支板手

SK SERIES DIN69871A



OZ COLLET CHUCK

OZ COLLET CHUCK-重切削筒夾本體 SK40/SK50-DIN69871A



Model NO.	L	D	Collet Type
SK40-OZ25-70	70	60	OZ25
SK40-OZ25-100	100	60	OZ25
SK40-OZ32-90	90	72	OZ32
SK50-OZ25-85	85	60	OZ25
SK50-OZ25-100	100	60	OZ25
SK50-OZ32-70	70	72	OZ32

- SK shank for OZ COLLET CHUCK can clamp drills, reamers, end mills and taps. Wrench not included.
- OZ重切削刀桿可用於夾持鉗頭、銑刀及絲攻刀具。



EM END MILL HOLDER-側固端銑刀把

SK30/SK40/SK50-DIN69871A

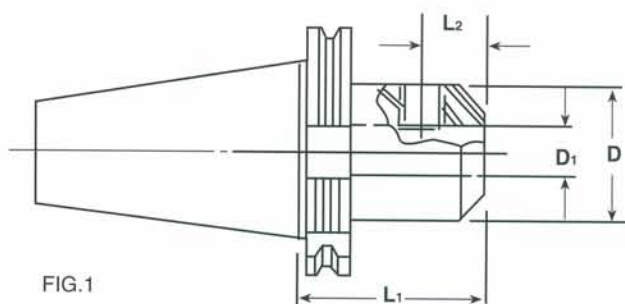


FIG.1

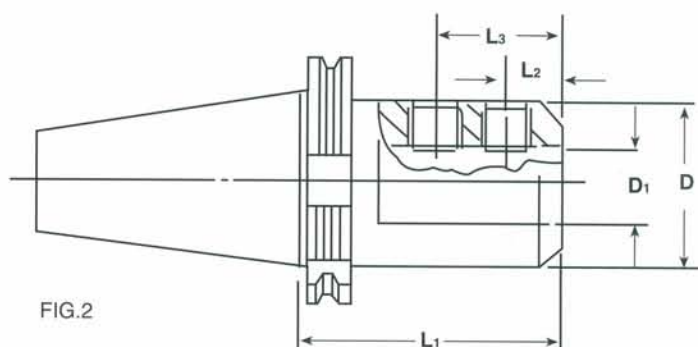


FIG.2

SK SERIES DIN69871A

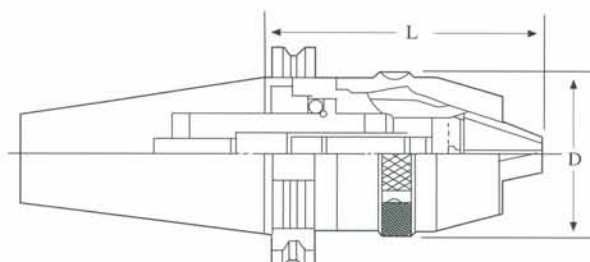
Model No.	Fig.	D1	D	L1	L2	L3
SK30-EM 6-50	1	6	25	50	18	--
SK30-EM 8-50	1	8	28	50	18	--
SK30-EM10-50	1	10	35	50	20	--
SK30-EM12-50	1	12	42	50	22.5	--
SK30-EM16-63	1	16	48	63	24	--
SK30-EM20-70	1	20	52	70	25	--
SK40-EM 6-50	1	6	25	50	18	--
SK40-EM 8-50	1	8	28	50	18	--
SK40-EM10-50	1	10	35	50	20	--
SK40-EM12-50	1	12	42	50	22.5	--
SK40-EM16-63	1	16	48	63	24	--
SK40-EM20-63	1	20	52	63	25	--
SK40-EM25-100	2	25	65	100	24	49
SK40-EM32-100	2	32	72	100	24	52
SK50-EM 6-63	1	6	25	63	18	--
SK50-EM 8- 63	1	8	28	63	18	--
SK50-EM10- 63	1	10	35	63	20	--
SK50-EM12- 63	1	12	42	63	22.5	--
SK50-EM16- 63	1	16	48	63	24	--
SK50-EM20- 63	1	20	52	63	25	--
SK50-EM25-80	2	25	65	80	24	49
SK50-EM32-100	2	32	72	100	24	52
SK50-EM40-100	2	40	90	100	30	62
SK50-EM50-100	2	50	100	130	35	70

- For straight shank end mills.
- End mills are held by one or two set screws.
- End mill holders come equipped with set screws.
- 適用於夾持銑刀可用在一般切削加工。



APU DRILL CHUCK HOLDER

APU DRILL CHUCK HOLDER-直截式鑽夾頭刀把 SK40/SK50-DIN69871A



(Unit: mm)

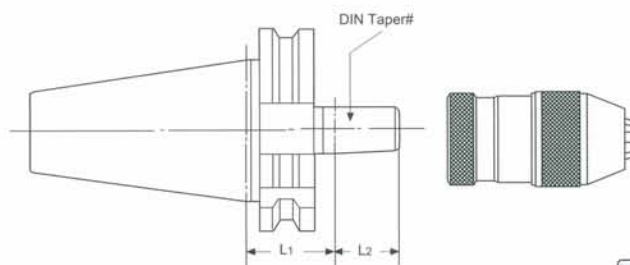
Model NO.	Clamping range (ømm)	D	L	
			Minimum	Maximum
SK40-APU08-75	1-8	36.3	69	76.5
SK40-APU13-100	1-13	51.5	88	99
SK40-APU16-120	3-16	58	106	120
SK50-APU08-85	1-8	36.3	80	87.5
SK50-APU13-110	1-13	51.5	99	110
SK50-APU13-170	1-13	51.5	159	170
SK50-APU16-120	3-16	58	106	120
SK50-APU16-180	3-16	58	166	180

- The shank and keyless drill chuck are combined together so that to avoid the drill chuck slipping out for heavy-duty and high-speed cutting.
- Each APU drill chuck attached 1 PC APU wrench.
- APU刀桿和鉗夾頭結為一體，用於重型及高速切削時，鉗頭不會掉落或鬆脫，APU刀桿附板手。



B TYPE DRILL CHUCK HOLDER B16/B18

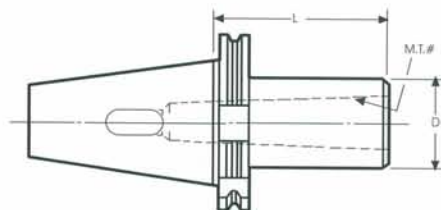
DRILL CHUCK HOLDER-鑽夾頭刀把 SK40/SK50-DIN69871A



Taper No.	DIN Taper #	L1	L2
SK40-B16	B16	32	24
SK40-B18	B18	32	32
SK50-B16	B16	43	24
SK50-B18	B18	43	32

- SK shank with drill chuck holder. Keyless taper mount is sold separately.
- 鉗夾頭另購品。

MORSE TAPER HOLDER-莫氏斜度刀把A型 SK30/SK40/SK50-DIN69871A

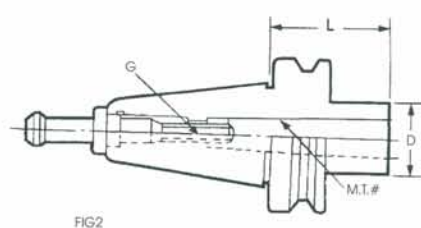
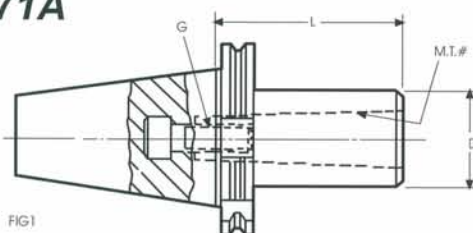


(Unit: mm)

Model No.	MT.#	L	D	Capacity		
				Drill	Reamer	End mill
SK30-MTA1-50	1	50	25	ø2•ø14	ø5•ø14	ø10•ø14
SK30-MTA2-65	2	65	32	ø14•ø23	ø14.5•ø23	ø16•ø22
SK30-MTA3-80	3	80	40	ø23•ø32	ø24•ø32	ø24•ø32
SK40-MTA1-50	1	50	25	ø2•ø14	ø5•ø14	ø10•ø14
SK40-MTA2-50	2	50	32	ø14•ø23	ø14.5•ø23	ø16•ø22
SK40-MTA3-70	3	70	40	ø23•ø32	ø24•ø32	ø24•ø32
SK40-MTA4-95	4	95	50	ø32•ø50	ø32•ø50	ø35•ø50
SK50-MTA1-45	1	45	25	ø2•ø14	ø5•ø14	ø10•ø14
SK50-MTA2-60	2	60	32	ø14•ø23	ø14.5•ø23	ø16•ø22
SK50-MTA3-65	3	65	40	ø23•ø32	ø24•ø32	ø24•ø32
SK50-MTA4-95	4	95	50	ø32•ø50	ø32•ø50	ø35•ø50
SK50-MTA5-105	5	105	65	ø50•ø75	ø50	ø40•ø75

- SK tool holder for morse taper shank with internal tang

MORSE TAPER HOLDER-莫氏斜度刀把B型 SK40/SK50-DIN69871A



Model No.	MT.#	L	D	FIG.	Capacity		
					Drill	Reamer	End mill
SK40-MTB1-50	1	50	25	1	ø2•ø14	ø5•ø14	ø10•ø14
SK40-MTB2-50	2	50	32	1	ø14•ø23	ø14.5•ø23	ø16•ø22
SK40-MTB3-70	3	70	40	1	ø23•ø32	ø24•ø32	ø24•ø32
SK40-MTB4-90	4	90	50	2	ø32•ø50	ø32•ø50	ø35•ø50
SK50-MTB1-45	1	45	25	1	ø2•ø14	ø5•ø14	ø10•ø14
SK50-MTB2-60	2	60	32	1	ø14•ø23	ø14.5•ø23	ø16•ø22
SK50-MTB3-65	3	65	40	1	ø23•ø32	ø24•ø32	ø24•ø32
SK50-MTB4-70	4	70	50	1	ø32•ø50	ø32•ø50	ø35•ø50
SK50-MTB5-105	5	105	65	2	ø50•ø75	ø50	ø40•ø75

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

MTB PULL STUD-MTB-長拉頭



Model No.	MT.#	G
MT4-DIN69872A-M16	MT4	M16x2.0P
MT5-DIN69872A-M20	MT5	M20x2.5P

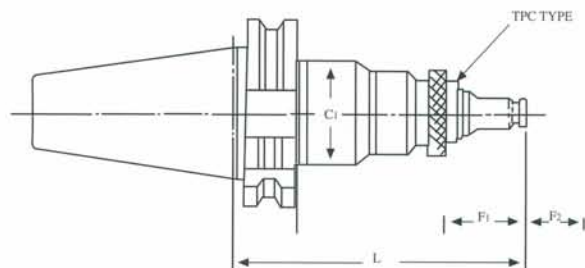
- NOTE:MTB-FIG2 type should be fitted for extension pull stud. The extension pull stud is optional.

- MTB-FIG2刀桿使用MTB長拉頭，MTB長拉頭為另購品。



TPM TAP HOLDER-TENSION & COMPRESSION TAPER HOLDER

SK40/SK50-DIN69871A-扭力伸縮攻牙本體



(Unit: mm)

Model No.	C1	F1	F2	L	Tapping range	Tap collet
SK40-TPM316	48	10	20	145	M3-M16	TPC316
SK40-TPM830	66	10	25	145	M8-M30	TPC830
SK50-TPM316	48	10	20	190	M3-M16	TPC316
SK50-TPM830	66	10	25(80)	190	M8-M30	TPC830

Note: F1: Compression, F2: Tension

-SK shank with taper tool holder.

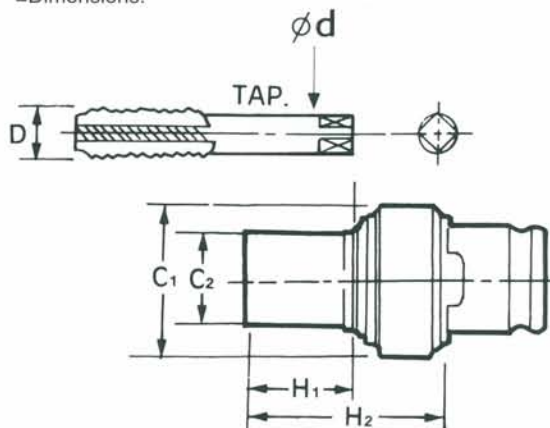
-QUICK CHANGE: push back on the holder sleeve, and the tap collet is removable easily.

SK SERIES DIN69871A

TAP COLLET/ TPC316 & TPC830-扭力絲攻筒夾



■Dimensions:



(Unit: mm)

Model No	Tap Diameter (D)	H1	H2	C1	C2	Master Holder type
TPC316	M3, M4, M5, M6, M8, M10, M12, M14, M16	27	47	33	20	TPM316
TPC316	W1/4, W1/8, W3/8, W3/16, W5/16, W7/16	27	47	33	20	TPM316
TPC316	W1/2, W5/8, PT1/8, PT1/4	27	47	33	25	TPM316
TPC830	M8, M10, M12, M14, M16, W5/16, W3/4, W7/16, W1/2, W5/8"	43	62	51	30	TPM830
TPC830	M18, M20, M22, M24, M27, M30, W3/4, W7/8, W1, PT1/8, PT3/8, PT1/4, PT1/2, PT5/8, PT3/4	43	62	51	36	TPM830

-Tap diameters which are not shown in the above, please advice shank diameter (d) and square size (SQ) when ordering. For more detail info about shank diameter (d) and square size (SQ) refer to P.38

-TPC tap collet have extended length to choice .

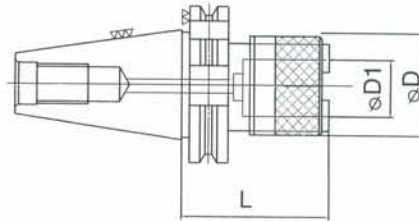
-請於訂購時確認絲攻筒夾的柄徑(d)和四角孔(SQ),關於更多詳細資料。請看P.38

-TPC絲攻筒夾有加長型規格可供選擇。



ART RIGID TAP HOLDER

SK30/SK40/SK50-DIN69871A-剛性攻牙本體



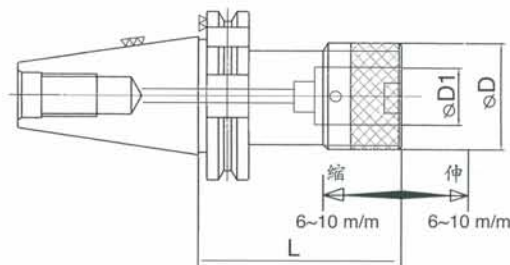
Model No.	D1	D2	L	Tapping Range	Tap Collet
SK30-ART312	19	36	60	M3-M12	ATC312
SK40-ART312	19	36	72	M3-M12	ATC312
SK50-ART312	19	36	82	M3-M12	ATC312
SK40-ART822	31	53	91	M8-M22	ATC822
SK50-ART822	31	53	101	M8-M22	ATC822

-Tap collets could be changed quickly. Torque control type and positive drive type tap collets can be used for ART TOOL HOLDER.

-ART刀桿為剛性攻牙本體，不具伸縮功能。扭力絲攻筒夾及剛性絲攻筒夾都可用於ART刀桿。

ATP TENSION & COMPRESSION TAP HOLDER

SK30/SK40/SK50-DIN69871A-伸縮攻牙本體



Model No.	D1	D2	L	Tapping Range	Tap Collet
SK30-ATP312	19	36	61	M3-M12	ATC312
SK40-ATP312	19	36	66	M3-M12	ATC312
SK50-ATP312	19	36	76	M3-M12	ATC312
SK40-ATP822	31	53	93	M8-M22	ATC822
SK50-ATP822	31	53	103	M8-M22	ATC822

-ATP tool holder are for TENSION & COMPRESSION. Torque control type and positive drive type tap collets can be used for ATP TOOL HOLDER.

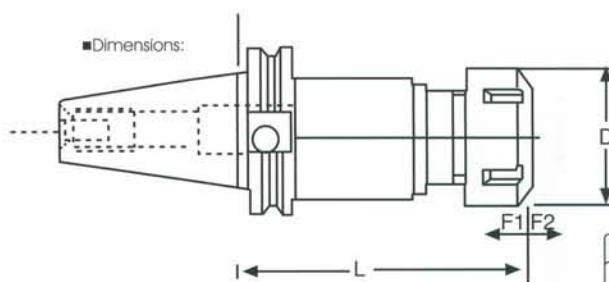
-ATP刀桿為伸縮攻牙本體，具有伸縮功能並能延長絲攻使用壽命。扭力絲攻筒夾及剛性絲攻筒夾都可用於ATP刀桿。

SK SERIES DIN69871A



TER TAP HOLDER-TENSION & COMPRESSION TAP HOLDER

SK40/SK50-DIN69871A-伸縮攻牙本體

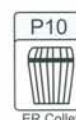
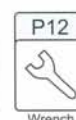
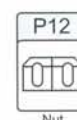
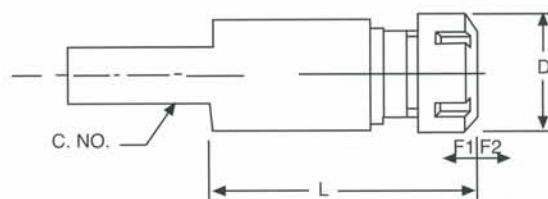


Model No.	Tapping Range	D	L	F1	F2	Collet type
SK40-TER16	M3-M12	28	77	5	8	ER16
SK40-TER20	M4-M16	34	86	5	8	ER20
SK40-TER25	M5-M20	42	90	5	8	ER25
SK40-TER32	M8-M27	50	94	5	8	ER32
SK40-TER40	M12-M35	63	98	5	8	ER40
SK50-TER16	M3-M12	28	80	5	8	ER16
SK50-TER20	M4-M16	34	99	5	8	ER20
SK50-TER25	M5-M20	42	97	5	8	ER25
SK50-TER32	M8-M27	50	95	5	8	ER32
SK50-TER40	M12-M35	63	117	5	8	ER40

-Tension & compression TER TAP HOLDER. TER tap holder use the ER SPRING COLLET and easy to get. Wrench not included. Nut not over tightening to avoid damage the body and nut.

-TER伸縮攻牙本體。使用時，螺帽請勿過度鎖緊以免造成螺蓋及本體損壞。ER板手為另購品。

C20/C25/C32/C40-Straight shank- 直柄伸縮攻牙本體



Mode No.	Tapping Range	D	L	F1	F2	Collet type
C20-TER16	M3-M12	28	75	5	12	ER16
C20-TER20	M4-M16	34	80	5	12	ER20
C20-TER25	M5-M20	42	80	5	12	ER25
C25-TER16	M3-M12	28	75	5	12	ER16
C25-TER20	M4-M16	34	80	5	12	ER20
C25-TER25	M5-M20	42	80	5	12	ER25
C25-TER32	M8-M27	50	80	5	8	ER30
C32-TER16	M3-M12	28	75	5	12	ER16
C32-TER20	M4-M16	34	80	5	12	ER20
C32-TER25	M5-M20	42	80	5	12	ER25
C32-TER32	M8-M27	50	80	5	8	ER32
C40-TER16	M3-M12	28	75	5	12	ER16
C40-TER20	M4-M16	34	80	5	12	ER20
C40-TER25	M5-M20	42	80	5	12	ER25
C40-TER32	M8-M27	50	80	5	8	ER32

-Tension & compression TER TAP HOLDER with straight shank. TER tap holder use the ER SPRING COLLET and easy to get.

-Wrench not included. Nut not over tightening to avoid damage the body and nut.

-FLAT SHANK for your optional. When ordering please specify "FLAT"

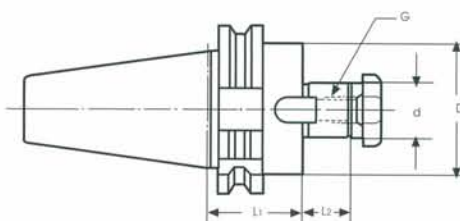
-直柄TER伸縮攻牙本體。使用時，螺帽請勿過度鎖緊以免造成螺蓋及本體損壞。ER板手為另購品。

-另有直柄削平面可供選購。請於購買時，註明"削平面"



FMB FACE MILL HOLDER -METRIC

FACE MILL HOLDER-平面銑刀把 SK40/SK50-DIN69871A

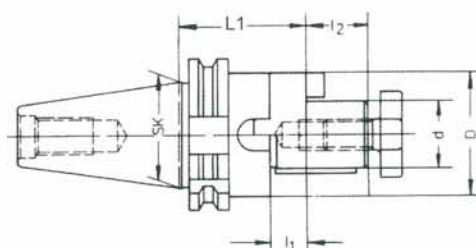


Model No.	d	L1	L2	D	G
SK40-FMB16-40	16	40	17	38	M8
SK40-FMB22-40	22	40	19	48	M10
SK40-FMB27-40	27	40	21	58	M12
SK40-FMB32-50	32	50	24	78	M16
SK40-FMB40-50	40	50	27	88	M20
SK50-FMB16-40	16	40	17	38	M8
SK50-FMB22-40	22	40	19	48	M10
SK50-FMB27-40	27	40	21	58	M12
SK50-FMB32-40	32	40	24	78	M16
SK50-FMB40-50	40	50	27	88	M20

- Tool holder with SK shank for clamping face mill cutters. Face mill holders equipped with screws and drive keys to assemble the mill cutter to the holder.
- Face mill cutter is sold separately.
- FMB刀把適用於平面銑削加工。面銑刀盤為另購品。

CS COMBINED FACE MILL HOLDER

SHELL MILL HOLDER-殼型銑刀把 SK40/SK50-DIN69871A



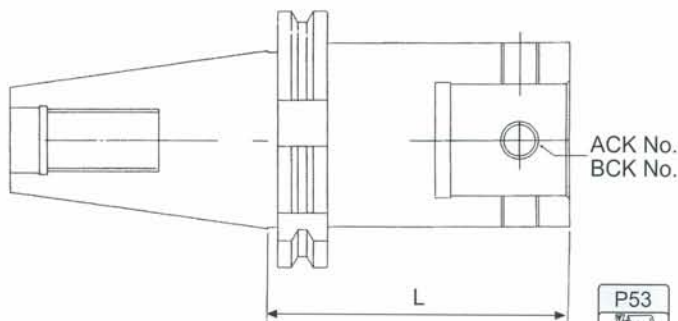
Model No.	d	D	L1	I1	I2	G
SK40-CS16-55	16	32	55	10	17	M8
SK40-CS22-55	22	40	55	12	19	M10
SK40-CS27-55	27	48	55	12	21	M12
SK40-CS32-60	32	58	60	14	24	M16
SK40-CS40-60	40	70	60	14	27	M20
SK50-CS16-55	16	32	55	10	17	M8
SK50-CS22-55	22	40	55	12	19	M10
SK50-CS27-55	27	48	55	12	21	M12
SK50-CS32-55	32	58	55	14	24	M16
SK50-CS40-55	40	70	55	14	27	M20

- SK shank for clamping shell mill cutters.
- Shell mill holders equipped with screws and drive keys to assemble the mill cutter to the holder.



ACK/BCK ADJUSTABLE BALANCE CUTTER TOOL HOLDER

SK40/SK50-DIN69871A-ACK/BCK 搪孔刀柄



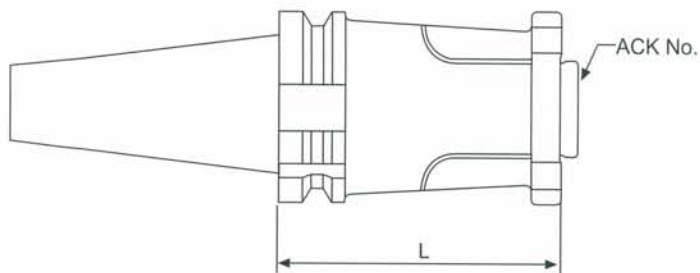
Model No.	L	ADAPTER	ACK No. Cutter	Boring Range	
				Min.	Max.
SK40-ACK1-60	60	ACK1	ACK19	19	25
SK40-ACK1-80	80	ACK1	ACK19	19	25
SK40-ACK2-60	60	ACK2	ACK25	25	33
SK40-ACK2-80	80	ACK2	ACK25	25	33
SK40-ACK2-100	100	ACK2	ACK25	25	33
SK40-ACK2-120	120	ACK2	ACK25	25	33
SK40-ACK3-60	60	ACK3	ACK32	32	42
SK40-ACK3-80	80	ACK3	ACK32	32	42
SK40-ACK3-100	100	ACK3	ACK32	32	42
SK40-ACK3-120	120	ACK3	ACK32	32	42
SK40-ACK4-80	80	ACK4	ACK40	40	55
SK40-ACK4-100	100	ACK4	ACK40	40	55
SK40-ACK4-125	125	ACK4	ACK40	40	55
SK40-ACK5-80	80	ACK5	ACK52	52	70
SK40-ACK5-100	100	ACK5	ACK52	52	70
SK40-ACK5-135	135	ACK5	ACK52	52	70
SK40-ACK6-55	55	ACK6	ACK68	68	92
SK40-ACK6-55	55	ACK6	ACK90	90	122
SK50-ACK2-90	90	ACK2	ACK25	25	33
SK50-ACK2-125	125	ACK2	ACK25	25	33
SK50-ACK3-90	90	ACK3	ACK32	32	42
SK50-ACK3-125	125	ACK3	ACK32	32	42
SK50-ACK4-115	115	ACK4	ACK40	40	55
SK50-ACK4-175	175	ACK4	ACK40	40	55
SK50-ACK5-90	90	ACK5	ACK52	52	70
SK50-ACK5-135	135	ACK5	ACK52	52	70
SK50-ACK5-195	195	ACK5	ACK52	52	70
SK50-ACK6-110	110	ACK6	ACK68	68	92
SK50-ACK6-110	110	ACK6	ACK90	90	122
SK50-ACK6-170	170	ACK6	ACK68	68	92
SK50-ACK6-170	170	ACK6	ACK90	90	122
SK50-ACK6-215	215	ACK6	ACK68	68	92
SK50-ACK6-215	215	ACK6	ACK90	90	122

- ACK19-ACK90 that boring range is from 19mm~122mm
- BCK30-BCK68 that boring range is from 30mm~102mm
- Balance cutting with two carbide inserts that reduce vibration and steady for cutting
- ACK19-ACK90其搪孔範圍為：19mm~122mm
- BCK30-BCK68其搪孔範圍為：30mm~102mm
- ACK刀頭雙層對稱式刀座設計可於加工時降低震動、斷屑容易。



BST ADJUSTABLE BALANCE CUTTER TOOL HOLDER

SK50-DIN69871A-大口徑雙刃粗搪刀柄



Model No.	L	ACK No
SK50-BST100	100	
SK50-BST125	125	
SK50-BST150	150	
SK50-BST175	175	ACK120
SK50-BST200	200	ACK160
SK50-BST225	225	ACK200
SK50-BST250	250	ACK300
SK50-BST275	275	ACK400
SK50-BST300	300	
SK50-BST350	350	
SK50-BST400	400	

SK SERIES DIN69871A

ADJUSTABLE BALANCE CUTTER-大口徑雙刃粗搪刀頭Ø120~Ø500mm



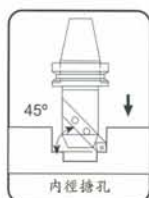
Model No.	C	Boring Range		L	Tool Holder
		Min.	Max.		
ACK120	90	120	164	95	SK50 BST
ACK160	130	160	204	95	
ACK200	170	200	300	95	
ACK300	170	300	400	95	
ACK400	170	400	500	95	

- ACK120-ACK140 that boring range is from 120mm~500mm.
- Balance cutting with two carbide inserts that reduce vibration and steady for cutting.
- ACK tips detail⇒refer to p59
- ACK120-ACK400其搪孔範圍為120mm~500mm.
- ACK刀頭雙層對稱式刀座設計可於加工時降底震動、斷屑容易。
- ACK刀片規格請參考p59

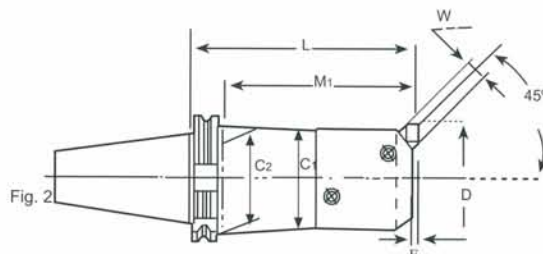
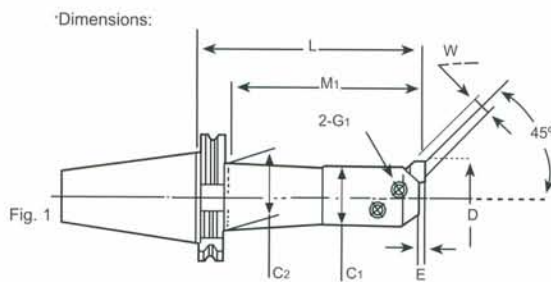


BSA BORING BAR

BSA BORING BAR- 粗搪刀把 SK30/SK40/SK50-DIN69871A



Holder for rough boring with angular setting square bit to axis.



Model No.	Fig	D		L	M1	C1	C2	E	W□	Tool Length	
		min.	max.								
SK30-BSA20-105	1	20	30	105	87	17	19	--	6	23	
SK30-BSA25-120	1	25	38	120	102	20	22	1	8	29	
SK30-BSA30-150	1	30	42	150	132	24	26	1.6	8	35	
SK30-BSA38-165	1	38	52	165	147	30	33	2.6	10	44	
SK30-BSA50-165	1	50	65	165	147	40	44	3	13	58	
SK30-BSA50-210	1	50	65	210	192	40	44	3	13	58	
SK40-BSA25-135	1	25	38	135	111	20	22	1	8	29	
SK40-BSA30-150	1	30	42	150	126	24	26	1.6	8	35	
SK40-BSA38-165	1	38	52	165	141	30	33	2.6	10	44	
SK40-BSA50-165	1	50	65	165	141	40	44	3	13	58	
SK40-BSA50-210	1	50	65	210	186	40	44	3	13	58	
SK40-BSA62-165	1	62	90	165	141	50	44	2	16	74	
SK40-BSA62-225	1	62	90	225	201	50	56	2	16	74	
SK40-BSA72-165	2	72	110	165	201	60	56	2.4	19	85	100
SK40-BSA72-225	2	72	110	225	201	60	56	2.4	19	85	100
SK40-BSA90-165	2	90	125	165	201	75	62	4	19	110	
SK40-BSA90-210	2	90	125	210	201	75	62	4	19	110	
SK50-BSA25-135	1	25	38	135	98	20	22	1	8	29	
SK50-BSA30-165	1	30	42	165	128	24	26	1.6	8	35	
SK50-BSA38-180	1	33	52	180	143	30	33	2.6	10	44	
SK50-BSA42-210	1	42	56	210	173	34	37	2	10	50	
SK50-BSA50-180	1	50	65	180	143	40	44	3	13	58	
SK50-BSA50-240	1	50	65	240	203	40	44	3	13	58	
SK50-BSA62-195	1	62	90	195	158	50	56	2	16	74	
SK50-BSA62-270	1	62	90	270	235	50	56	2	16	74	
SK50-BSA72-195	1	72	110	195	158	60	66	2.4	19	85	100
SK50-BSA72-285	1	72	110	285	248	60	66	2.4	19	85	100
SK50-BSA90-210	1	90	125	210	173	75	80	4	19	110	
SK50-BSA90-300	1	90	125	300	263	75	80	4	19	110	
SK50-BSA105-195	1	105	160	195	263	90	80	3	25	130	150
SK50-BSA105-285	1	105	160	285	263	90	94	3	25	130	150

-SK boring bar type A for square and throw away boring tool. Holder for rough boring.

-Throw away boring bar is sold separately. When match throw away boring bar, please check the DEG is 45 DEG and W□

-捨棄式搪刀架為另購品。

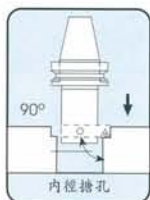
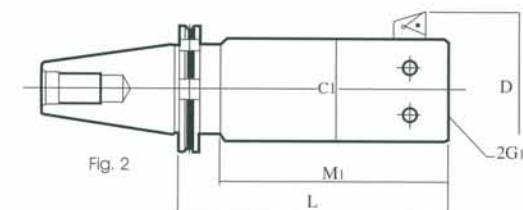
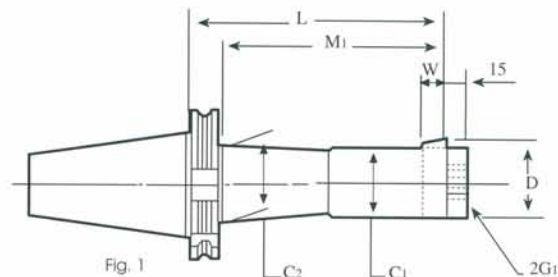
-訂購捨棄式搪刀架，請依據刀桿的內徑搪孔角度-45 DEG和W□選擇。



BSB BORING BAR- 粗搪刀把 SK30/SK40/SK50-DIN69871A

Holder for rough boring with angular setting square bit to axis.

■Dimensions:



Model No.	Fig	D		L	M1	C1	C2	W □	Tool Length	
		min.	max.							
SK30-BSB20-105	1	20	30	105	87	17	19	6	23	
SK30-BSB25-120	1	25	38	120	102	20	22	8	29	
SK30-BSB30-150	1	30	42	150	132	24	26	8	35	
SK30-BSB38-165	1	38	52	165	147	30	33	10	44	
SK30-BSB50-165	1	50	65	165	147	40	44	13	58	
SK30-BSB50-210	1	50	65	210	192	40	44	13	58	
SK40-BSB25-135	1	25	52	135	111	20	22	8	22	35
SK40-BSB38-165	1	38	70	165	141	30	33	10	34	50
SK40-BSB50-165	1	50	90	165	141	40	44	13	45	60
SK40-BSB50-210	1	50	90	210	186	40	44	13	45	60
SK40-BSB62-165	1	62	115	165	141	50	44	16	56	80
SK40-BSB62-225	1	62	115	225	201	50	56	16	56	80
SK40-BSB72-165	2	72	135	165	201	60	56	19	66	95
SK40-BSB72-225	2	72	135	225	201	60	56	19	66	95
SK40-BSB90-165	2	90	150	165	201	75	56	19	82	110
SK40-BSB90-210	2	90	150	210	201	75	56	19	82	110
SK50-BSB25-135	1	25	52	135	98	20	22	8	22	35
SK50-BSB38-180	1	38	70	180	143	30	32	10	34	50
SK50-BSB50-180	1	50	90	180	143	40	44	13	45	60
SK50-BSB50-240	1	50	90	240	203	40	44	13	45	60
SK50-BSB62-195	1	62	115	195	158	50	56	16	56	80
SK50-BSB62-270	1	62	115	270	233	50	56	16	56	80
SK50-BSB72-195	1	72	135	195	158	60	66	19	66	95
SK50-BSB72-285	1	72	135	285	248	60	66	19	66	95
SK50-BSB90-210	1	90	150	210	173	75	80	19	82	110
SK50-BSB90-300	1	90	150	300	263	75	80	19	82	110
SK50-BSB105-195	2	105	190	195	263	90	80	25	97	140
SK50-BSB105-285	2	105	190	285	263	90	94	25	97	140

-SK boring bar type B for square and throw away boring tool. Holder for rough boring.

-Throw away boring bar is sold separately. When match throw away boring bar, please check the DEG is 90 DEG and W □.

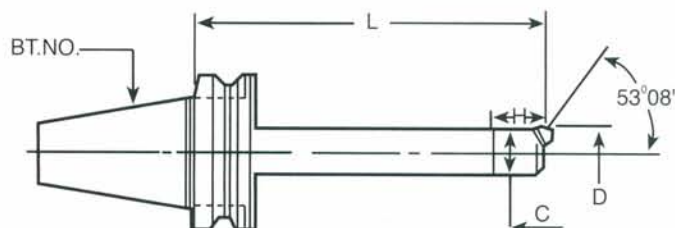
-捨棄式搪刀架為另購品。

-訂購捨棄式搪刀架，請依據刀桿的內徑搪孔角度-90 DEG和W □選擇。



BCA MICRO BORING BAR

BCA BORING BAR-微調粗搪刀把 SK30/SK40-DIN69871A



SANDVIK Boring Head

Model No.	Boring Range D		L	H	C	Cartridge
	Min.	Max.				
SK30-BCA26-150	26	30	150	35	23	L148C-31
SK30-BCA26-180	26	30	180	35	23	L148C-31
SK30-BCA30-160	30	34	160	40	26	L148C-31
SK30-BCA30-210	30	34	210	40	26	L148C-31
SK30-BCA33-165	33	38	165	40	29	L148C-32
SK30-BCA33-210	33	38	210	40	29	L148C-32
SK30-BCA38-165	38	43	165	40	33	L148C-32
SK30-BCA38-210	38	43	210	40	33	L148C-33
SK30-BCA43-165	43	52	165	60	38	L148C-33
SK30-BCA43-210	43	52	210	60	38	L148C-33
SK30-BCA52-180	52	61	180	60	47	L148C-33
SK30-BCA52-240	52	61	240	60	47	L148C-33
SK30-BCA61-180	61	70	240	60	56	L148C-33
SK30-BCA61-240	61	70	330	60	56	L148C-33
SK30-BCA70-180	70	85	180	70	65	L148C-34
SK30-BCA70-240	70	85	240	70	65	L148C-34
SK40-BCA26-150	26	30	150	35	23	L148C-31
SK40-BCA26-180	26	30	180	35	23	L148C-31
SK40-BCA30-160	30	34	160	40	26	L148C-31
SK40-BCA30-210	30	34	210	40	26	L148C-31
SK40-BCA33-165	33	38	165	40	29	L148C-32
SK40-BCA33-210	33	38	210	40	29	L148C-32
SK40-BCA38-165	38	43	165	40	33	L148C-32
SK40-BCA38-210	38	43	210	40	33	L148C-32
SK40-BCA43-165	43	52	165	40	38	L148C-33
SK40-BCA43-210	43	52	210	40	38	L148C-33
SK40-BCA52-180	52	61	180	40	47	L148C-33
SK40-BCA52-240	52	61	240	40	47	L148C-33
SK40-BCA61-180	61	70	180	40	56	L148C-33
SK40-BCA61-240	61	70	240	40	56	L148C-33
SK40-BCA61-330	61	70	330	40	56	L148C-33
SK40-BCA70-180	70	85	180	70	65	L148C-34
SK40-BCA70-240	70	85	240	70	65	L148C-34
SK40-BCA85-180	85	100	180	70	80	L148C-34
SK40-BCA85-240	85	100	240	70	80	L148C-34
SK40-BCA100-165	100	115	165	70	95	L148C-34
SK40-BCA100-240	100	115	240	70	95	L148C-34

-SK type micro tool holder for SANDVIK FINE BORING HEAD.

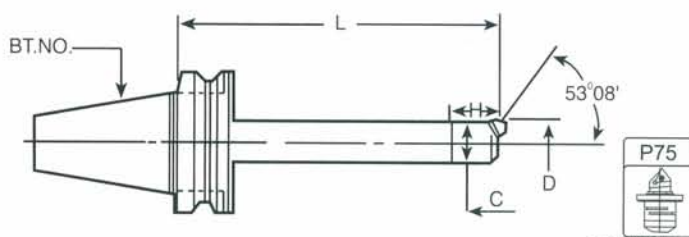
-BCA tool holder not including SANDVIK boring head. SANDVIK BORING HEAD is sold separately.

-SK微調精搪刀把，搭配SANDVIK精搪頭使用。SANDVIK精搪頭為另購品。

SK SERIES DIN69871A

BCA MICRO BORING BAR & SQUARE MICRO BORING BAR

SK50-DIN69871A- 微調精磨刀把



SANDVIK Boring Head

Model No.	Boring Range D		L	H	C	Cartridge
	Min.	Max.				
SK50-BCA26-150	26	30	150	35	23	L148C-31
SK50-BCA26-180	26	30	180	35	23	L148C-31
SK50-BCA30-160	30	34	160	40	26	L148C-31
SK50-BCA30-210	30	34	210	40	26	L148C-31
SK50-BCA33-165	33	38	165	40	29	L148C-32
SK50-BCA33-210	33	38	210	40	29	L148C-32
SK50-BCA38-165	38	43	165	40	33	L148C-32
SK50-BCA38-210	38	43	210	40	33	L148C-32
SK50-BCA43-165	43	52	165	60	38	L148C-33
SK50-BCA43-210	43	52	210	60	38	L148C-33
SK50-BCA52-180	52	61	180	60	47	L148C-33
SK50-BCA52-240	52	61	240	60	47	L148C-33
SK50-BCA61-180	61	70	180	60	56	L148C-33
SK50-BCA61-240	61	70	240	60	56	L148C-33
SK50-BCA61-330	61	70	330	60	56	L148C-33
SK50-BCA70-180	70	85	180	70	65	L148C-34
SK50-BCA70-240	70	85	240	70	65	L148C-34
SK50-BCA70-330	70	85	330	70	65	L148C-34
SK50-BCA85-180	85	100	180	70	80	L148C-34
SK50-BCA85-240	85	100	240	70	80	L148C-34
SK50-BCA85-330	85	100	330	70	80	L148C-34
SK50-BCA100-165	100	115	165	70	95	L148C-34
SK50-BCA100-240	100	115	240	70	95	L148C-34
SK50-BCA100-315	100	115	315	70	95	L148C-34
SK50-BCA115-165	115	130	165	50	110	L148C-34
SK50-BCA115-240	115	130	240	50	110	L148C-34
SK50-BCA115-315	115	130	315	50	110	L148C-34
SK50-BCA130-165	130	145	165	50	125	L148C-34
SK50-BCA130-240	130	145	240	50	125	L148C-34
SK50-BCA145-165	145	160	165	50	140	L148C-34
SK50-BCA145-240	145	160	240	50	140	L148C-34

-SK type micro tool holder for SANDVIK FINE BORING HEAD.

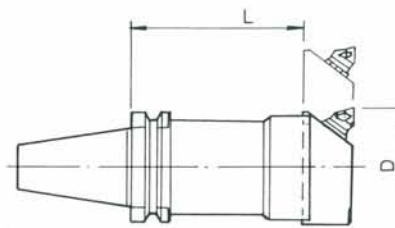
-BCA tool holder not including SANDVIK boring head. SANDVIK BORING HEAD is sold separately.

-SK微調精磨刀把，搭配SANDVIK精磨頭使用。SANDVIK精磨頭為另購品。

SK SERIES DIN69871A

BCT LARGE MICRO BORING BAR WITH SLIDE BLOCK

SK50-DIN69871A- 大孔徑滑板式精磨刀桿



TAPER NO.	L
SK50-BCT100	100
SK50-BCT150	150
SK50-BCT200	200
SK50-BCT250	250
SK50-BCT300	300



SANDVIK Boring Head

-BCT tool holder not including BCT BORING BLOCK and SANDVIK BORING HEAD.

-BCT boring block⇒refer to p74

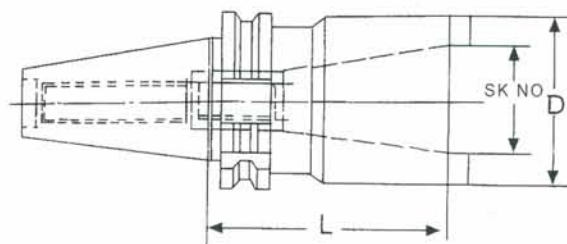
-BCT刀桿需搭配BCT刀盤和SANDVIK精磨頭。

-BCT刀盤和SANDVIK精磨頭為另購品。

-BCT刀盤⇒refer to p74

TSA ADAPTER

ADAPTER- 轉接器 **SK40/SK50-DIN69871A**



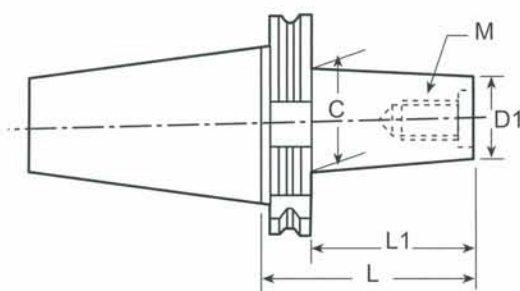
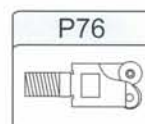
Model No.	SK No.	L	D
SK40-TSA30-50	30	50	50
SK50-TSA30-50	30	50	50
SK50-TSA40-70	40	70	70
SK50-TSA40-120	40	120	97

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

SK SERIES DIN69871A

AMD SCREW-IN ENDMILL ARBOR

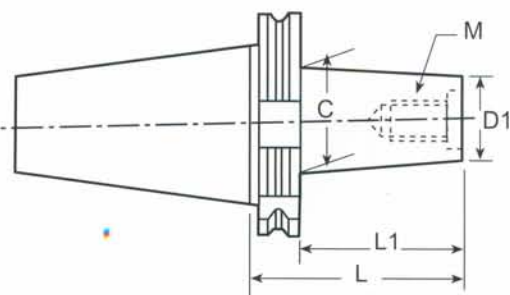
SK40/SK50-DIN69871A- 圓刀銑刀把



Model No.	M	D1	L1	L
SK40-AMD122-80	8	13	53	80
SK40-AMD122-100	8	13	73	100
SK40-AMD162-80	8	13	53	80
SK40-AMD123-80	6	13	53	80
SK40-AMD162-100	8	13	73	100
SK40-AMD202-80	10	18	53	80
SK40-AMD202-100	10	18	73	100
SK40-AMD253-80	12	21	53	80
SK40-AMD253-100	12	21	73	100
SK40-AMD354-80	16	29	53	80
SK40-AMD354-100	16	29	73	100
SK50-AMD122-100	8	13	62	100
SK50-AMD122-120	8	13	82	120
SK50-AMD162-100	8	13	62	100
SK50-AMD162-120	8	13	82	120
SK50-AMD202-100	10	18	62	100
SK50-AMD202-120	10	18	82	120
SK50-AMD253-100	12	21	62	100
SK50-AMD253-120	12	21	82	120
SK50-AMD354-100	16	29	62	100
SK50-AMD354-120	16	29	82	120

ABH BORING BAR- 微調精搪刀桿

SK30/SK40/SK50-DIN69871A



Model No.	Boring Range		D	C	L	L1	G
	min	max					
SK30-ABH18-60	22	32	18	24	44	60	M10 x P1.5
SK30-ABH18-100	22	32	18	24	84	100	M10 x P1.5
SK30-ABH23-80	28	46	23	29	64	80	M12 x P1.75
SK30-ABH23-120	28	46	23	29	104	120	M12 x P1.75
SK30-ABH30-80	36	60	30	36	64	80	M16 x P2
SK30-ABH30-130	36	60	30	36	114	130	M16 x P2
SK30-ABH40-80	46	80	40	48	64	80	M18 x P2.5
SK30-ABH40-150	46	80	40	48	134	150	M18 x P2.5
SK30-ABH63-80	70	130	63	--	64	80	M25 x P2
SK30-ABH63-150	70	130	63	--	134	150	M25 x P2
SK40-ABH18-60	22	32	18	24	39	60	M10 x P1.5
SK40-ABH18-100	22	32	18	24	79	100	M10 x P1.5
SK40-ABH23-80	28	46	23	29	59	80	M12 x P1.75
SK40-ABH23-120	28	46	23	29	99	120	M12 x P1.75
SK40-ABH30-80	36	60	30	36	59	80	M16 x P2
SK40-ABH30-130	36	60	30	36	109	130	M16 x P2
SK40-ABH40-80	46	80	40	48	59	80	M18x P2.5
SK40-ABH40-150	46	80	40	48	129	150	M18x P2.5
SK40-ABH63-80	70	130	63	--	59	80	M25 x P2
SK40-ABH63-150	70	130	63	--	129	150	M25 x P2
SK50-ABH18-80	22	32	18	24	48	80	M10xP1.5
SK50-ABH18-120	22	32	18	24	88	120	M10xP1.5
SK50-ABH23-80	28	46	23	29	48	80	M12 x P1.75
SK50-ABH23-120	28	46	23	29	88	120	M12 x P1.75
SK50-ABH30-80	36	60	30	36	48	80	M16 x P2
SK50-ABH30-130	36	60	30	36	98	130	M16 x P2
SK50-ABH40-80	46	80	40	48	48	80	M18 x P2.5
SK50-ABH40-150	46	80	40	48	118	150	M18 x P2.5
SK50-ABH40-220	46	80	40	48	190	220	M18 x P2.5
SK50-ABH63-80	70	130	63	--	48	80	M25 x P2
SK50-ABH63-150	70	130	63	--	118	150	M25 x P2
SK50-ABH63-230	70	130	63	--	198	230	M25 x P2
SK50-ABH83-50	90	160	83	--	48	50	M25 x P2
SK50-ABH83-130	90	160	83	--	98	130	M25 x P2
SK50-ABH83-200	90	160	83	--	168	200	M25 x P2

-SK type boring bars for ABH ROUGH or FINE boring head unit.

-ABH tool holder NOT including ABH/ABH-SB BORING UNIT. ABH boring unit is sold separately.

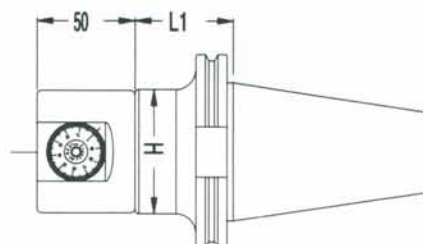
-ABH微調精搪刀桿。適用於ABH/ABH-SB精搪頭或ABH粗搪頭。

-ABH/ABH-SB刀頭為另購品。



NBJ16 MICRO BORING BAR

NBJ16 MICRO BORING SYSTEM-NBJ16- 微調搪孔系統 SK40/SK50-DIN69871A



Model No.	Boring range 搪孔範圍	Shank Size 刀桿規格	L1
SK40-NBJ16	06-51	SK40-NBJ16-55	55
SK50-NBJ16	06-51	SK50-NBJ16-65	65

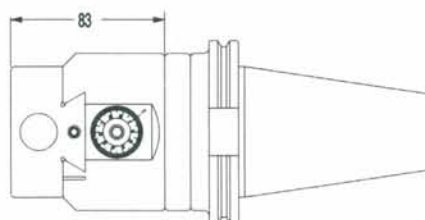
- NBJ16 is a small diameter boring system. In which diameter size, the boring ranges could be from 6~51mm.
- NBJ16 boring head can match BM1625 series for optional it can extend boring range to 68mm (6-68mm)=>refer to P.87
- BJ16 boring bar according to your request to choice.
- BJ16 boring bar and BJ16 8PCS must buy separately.=>refer to P.84
- NBJ16微調搪孔系統：搪孔範圍6~51mm。
- BJ16搪孔刀頭可另選配BM1625系列，可使搪孔範圍延展至68mm(6-68mm)=>請參考 P.87
- BJ16搪孔刀桿可依據需求自由選配。
- BJ16搪孔刀桿及BJ16 8PCS 搪刀組為另購品。=>請參考 P.84

SK SERIES DIN69871A



NBH2084 MICRO BORING BAR

NBH2084 MICRO BORING SYSTEM-NBH2084- 微調搪孔系統 SK40/SK50-DIN69871A



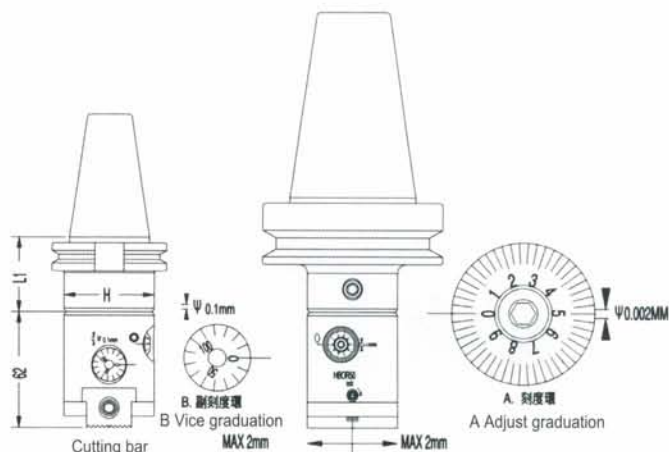
Model No.	Boring range 搪孔範圍	Shank Size 刀桿規格
SK40-NBH2084/SET	08-280	SK40-NBH2084
SK50-NBH2084/SET	08-280	SK50-NBH2084

- NBH2084 is a small diameter boring system in which diameter size ranges from 8~280mm.
- NBH2084 TOOL HOLDER SET: Already attached 3 PCS of BJ20 BORING BARS that choice by yourself.
- BJ20 boring bar according to your request to choice.=>refer to P.88
- NBH2084微調搪孔系統：搪孔範圍8~280mm。
- NBH2084搪孔組已附3支搪孔刀桿。=>請參考P.88



HBOR50 MICRO BORING BAR

HBOR50 MICRO BORING SYSTEM-HBOR50 SET- 微調搪孔系統組 SK40/SK50-DIN69871A



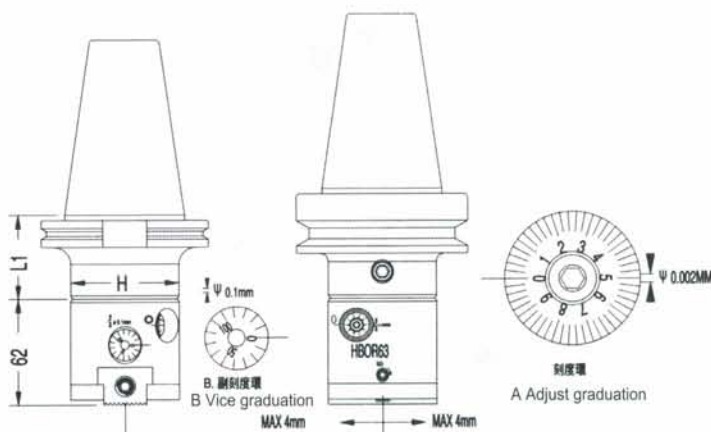
Model No.	Boring range 搪孔範圍	Shank Size 刀桿規格	L1
SK40-HBOR50/SET	06-90	SK40-ACK5-50	50
SK50-HBOR50/SET	06-90	SK50-ACK5-50	50

- HBOR50 is a set refers to micro finish boring system in which diameter size ranges from 6~90mm.
- The inside diameter of HBOR50 micro finish boring system is 16mm. With the combination of BR series. the diameter of HBOR50 can now be within the range of 6~90mm.
- All set of HBOR50 micro boring bar NOT including inserts.
- HBOR50 boring bar set.=>refer to P89
- HBOR50為微調搪孔系統組：搪孔範圍6~90mm。
- HBOR50極細微調搪孔本體中的內孔 $\varnothing 16$ 。組合BR系列小徑精搪孔刀桿使搪孔徑範圍為6~90mm。更為完整搪孔範圍組合。
- HBOR50整組規格=>請參考P89



HBOR63 MICRO BORING BAR

HBOR63 MICRO BORING SYSTEM-HBOR63 SET- 微調搪孔系統組 SK40/SK50-DIN69871A



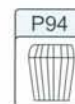
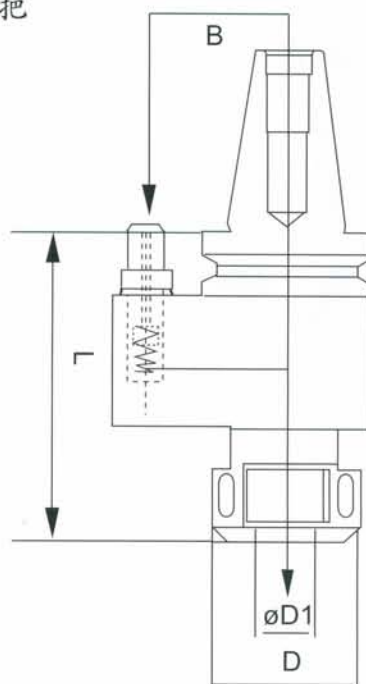
Model No.	Boring range 搪孔範圍	Shank Size 刀桿規格	L1
SK40-HBOR63/SET	06-150	SK40-ACK6-60	60
SK50-HBOR63/SET	06-150	SK50-ACK6-65	65

- HBOR63 is a set refers to micro finish boring system in which diameter size ranges from 6~150mm.
- The inside diameter of HBOR63 micro finish boring system is 16mm. With the combination of BR series. the diameter of HBOR63 can now be within the range of 6~150mm.
- HBOR63 boring head can match BM140 series for optional, it can extend boring range to 280mm (6-280mm)=>refer to P91
- All set of HBOR63 micro boring bar NOT including inserts.
- HBOR63 boring bar set.=>refer to P90
- HBOR63為微調搪孔系統組：搪孔範圍6~150mm。
- HBOR63極細微調搪孔本體中的內孔 $\varnothing 16$ 。組合BR系列小徑精搪孔刀桿使搪孔徑範圍為6~150mm。更為完整搪孔範圍組合。
- HBOR63微調搪孔組可另選配BM140系列，使其搪孔範圍延展至280mm (6-280mm)=>請參考P91。
- HBOR63整組規格=>請參考P90



ERO OIL-FEED HOLDER

SK40/SK50-DIN69871A-ERO- 油路刀把



ER COOLANT COLLET

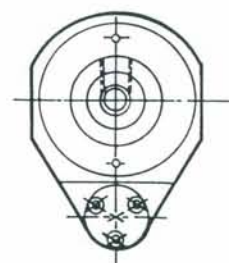
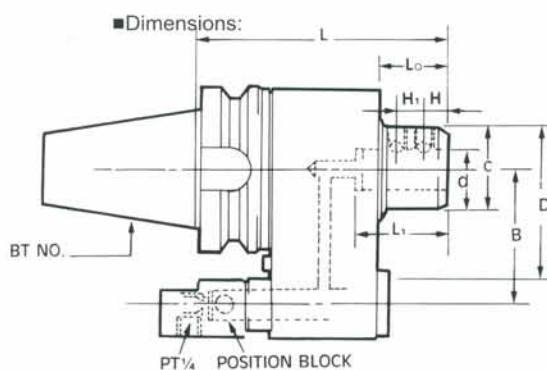
Model No.	D1	D	L	中心距/B
SK40-ERO32-145	ER32- $\phi 4$ - $\phi 20$	50	145	60/65
SK40-ERO40-150	ER40- $\phi 4$ - $\phi 25$	63	150	60/65
SK50-ERO32-160	ER32- $\phi 4$ - $\phi 20$	50	155	80/82
SK50-ERO40-160	ER40- $\phi 4$ - $\phi 25$	63	160	80/82

- ERO OIL-FEED TOOL HOLDER : Must use ER COOLANT NUT & ER COOLANT COLLET.
- When ordering, please specify the B part of OIL-FEED HOLDER according to your machine.
- Positioning Block is necessary. It must buy separately. Positioning Block refer to P.95
- ERO油路刀把：請使用ER止水筒夾和止水螺帽。
- 請於訂購時，依據機台規格，確認中心距B的尺寸。
- ERO油路刀把止動塊為另購品=>請參考P.95



SLO OIL-FEED HOLDER

SK40/SK50-DIN69871A-SLO- 油路刀把



REDUCING SLEEVE

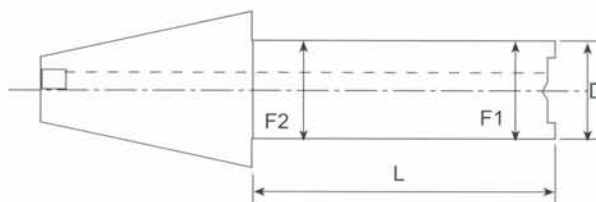
Model No.	d	L	B	C	D	L0	L1	H	H1
SK40-SLO32-150	32	150	60/65	53	90	50	60	15	15
SK40-SLO40-150	40	150	60/65	70	90	50	70	19	18
SK50-SLO32-160	32	160	80/82	54	100	50	60	15	15
SK50-SLO40-160	40	160	80/82	64	100	50	70	19	18

- When ordering, please specify the B part of OIL-FEED HOLDER according to your machine.
- Positioning Block is necessary. It must buy separately. Positioning Block refer to P.95
- 請於訂購時，依據機台規格，確認中心距B的尺寸。
- SLO油路刀把止動塊為另購品=>請參考P.95



TA TEST BAR

TA TEST BAR- 測試棒 SK40/SK50-DIN69871A



(Unit: mm)

Model No.	D	L
SK40-TA40-160	40	160
SK40-TA40-250	40	250
SK50-TA40-250	40	250
SK50-TA40-315	40	315
SK50-TA40-350	40	350
SK50-TA63-315	63	315
SK50-TA63-350	63	350

-Test arbors are used to measure the runout of machine spindle.



TOOL LOCKING DEVICE

SK/DIN69871A-LOCKING DEVICE- 立臥兩用鎖刀座



SK SERIES DIN69871A

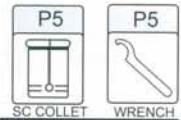
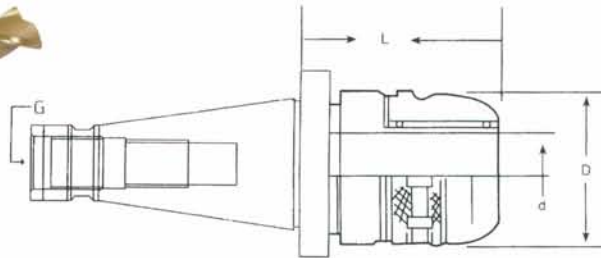
SK-DIN69871A	SK30鎖刀座(SK30-100-000)
	SK40鎖刀座(SK40-100-001)
	SK50鎖刀座(SK50-100-000)

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



ASC MILLING CHUCK

MILLING CHUCK-ASC- 強力銑刀夾頭 SK40/SK50-DIN2080



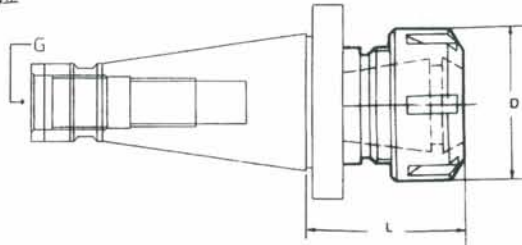
Model No.	Clamping Range	d	D	L	Collet Type	G
SK40-ASC25-80	6~25	25	58	85	SC25	M16
SK40-ASC25-130	6~25	25	58	130	SC25	M16
SK40-ASC32-85	6~32	32	68	85	SC32	M16
SK40-ASC32-130	6~32	32	68	130	SC32	M16
SK50-ASC25-85	6~25	25	58	85	SC25	M24
SK50-ASC25-150	6~25	25	58	150	SC25	M24
SK50-ASC32-90	6~32	32	68	90	SC32	M24
SK50-ASC32-150	6~32	32	68	150	SC32	M24
SK50-ASC42-95	6~42	42	84	95	SC42	M24
SK50-ASC42-150	6~42	42	84	150	SC42	M24

- Each ASC milling chuck attached 1 PC ASC C-type wrench.
- 每支ASC刀桿均附1支板手



ER COLLET CHUCK FOR ER COLLET TYPE

ER COLLET CHUCK- 彈性筒夾本體 SK40/SK50-DIN2080



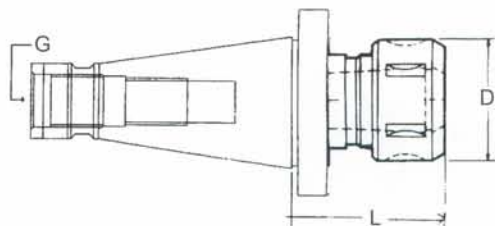
Model No.	Clamping Range	L	D	Collet Type	Wrench	G
SK40-ER16-76	0.5~10	76	28	ER16	WER16	M16
SK40-ER16-100	0.5~10	100	28	ER16	WER16	M16
SK40-ER20-76	0.5~13	76	34	ER20	WER20	M16
SK40-ER20-100	0.5~13	100	34	ER20	WER20	M16
SK40-ER25-50	0.5~16	50	42	ER25	WER25	M16
SK40-ER32-50	1~20	50	50	ER32	WER32	M16
SK40-ER40-55	2~26	55	63	ER40	WER40	M16
SK50-ER16-100	0.5~10	100	28	ER16	WER20	M24
SK50-ER20-100	0.5~13	100	34	ER20	WER20	M24
SK50-ER25-100	0.5~16	100	42	ER25	WER25	M24
SK50-ER32-58	1~20	58	50	ER32	WER32	M24
SK50-ER40-58	2~26	58	63	ER40	WER40	M24

- ER COLLET CHUCK with the flexibility and can clamp drill, reamers, end mills and taps.
- ER11/ ER16 /ER20 holder can make M type as your choice.
- ER16 /ER20 /ER25 /ER32 /ER40 are also suitable for ER bearing nut and wrench.
- Wrench not included.
- ER11/ ER16 /ER20 刀桿另有M型可供選擇。
- ER16 /ER20 /ER25 /ER32/ER40刀桿可另外選配鋼珠螺帽及板手。
- ER板手為另購品。



OZ COLLET CHUCK

OZ COLLET CHUCK-重切削筒夾本體 SK40/SK50-DIN2080



Model NO.	D2 CLAMPING RANGE	L	D	G
SK40-OZ25-63	3-25	70	60	M16
SK40-OZ25-100	3-25	100	60	M16
SK40-OZ32-90	6-32	90	72	M16
SK50-OZ25-63	3-25	63	60	M24
SK50-OZ25-100	3-25	100	60	M24
SK50-OZ32-70	6-32	70	72	M24

- SKshank for OZ COLLET CHUCK can clamp drills, reamers, end mills and taps. Wrench not included.
- OZ重切削刀桿可用於夾持鉗頭、銑刀及絲攻刀具。



EM END MILL HOLDER-WELDON

EM END MILL HOLDER-側固端銑刀把 SK30/SK40/SK50-DIN2080

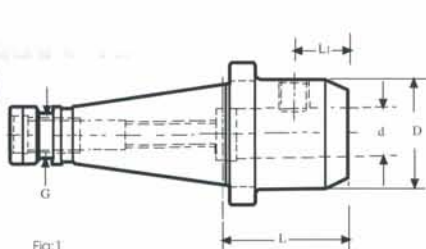


Fig:1

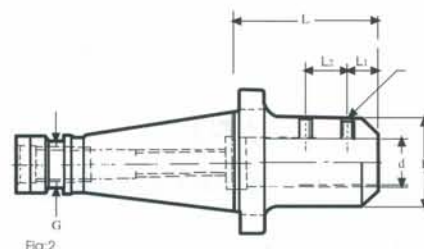


Fig:2

Model No.	Fig.	d	L	D	L1	L2	G
SK30-EM 6-40	1	6	40	25	18	--	M12
SK30-EM 8-40	1	8	40	28	18	--	M12
SK30-EM10-40	1	10	40	35	20	--	M12
SK30-EM12-40	1	12	40	42	22.5	--	M12
SK30-EM16-50	1	16	50	48	24	--	M12
SK30-EM20-63	1	20	63	52	25	--	M12
SK40-EM 6-50	1	6	50	25	18	--	M16
SK40-EM 8-50	1	8	50	28	18	--	M16
SK40-EM10-50	1	10	50	35	20	--	M16
SK40-EM12-50	1	12	50	42	22.5	--	M16
SK40-EM16-63	1	16	63	48	24	--	M16
SK40-EM20-63	1	20	63	52	25	--	M16
SK40-EM25-80	2	25	80	65	24	25	M16
SK40-EM32-80	2	32	80	72	24	28	M16
SK40-EM40-80	2	40	80	80	30	32	M16
SK50-EM 6-63	1	6	63	25	18	--	M24
SK50-EM 8-63	1	8	63	28	18	--	M24
SK50-EM10-63	1	10	63	35	20	--	M24
SK50-EM12-63	1	12	63	42	22.5	--	M24
SK50-EM16-63	1	16	63	48	24	--	M24
SK50-EM20-63	1	20	63	52	25	--	M24
SK50-EM25-80	2	25	80	65	24	25	M24
SK50-EM32-80	2	32	80	72	24	28	M24
SK50-EM40-90	2	40	90	90	30	32	M24

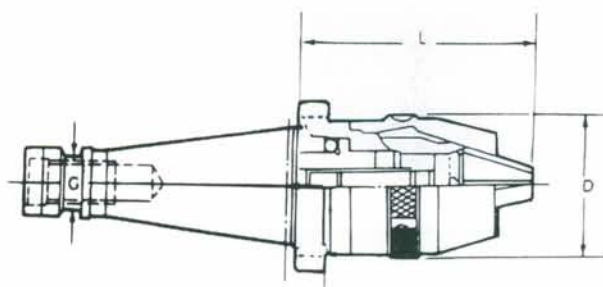
- For straight shank end mills.
- End mills are held by one or two set screws.
- End mill holders come equipped with set screws.
- 適用於夾持銑刀可用在一般切削加工。

SK SERIES DIN2080



APU DRILL CHUCK HOLDER

APU DRILL CHUCK HOLDER-直截式鑽夾頭刀把 SK40/SK50-DIN2080



(Unit: mm)

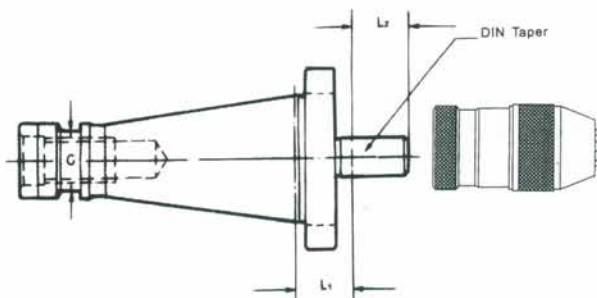
Model NO.	Clamping range (ømm)	D	L		G
			Minimum	Maximum	
SK40-APU8-75	1-8	36.3	69	76.5	M16
SK40-APU13-100	1-13	51.5	88	99	M16
SK40-APU16-120	3-16	58	106	120	M16
SK50-APU8-85	1-8	36.3	80	87.5	M16
SK50-APU13-110	1-13	51.5	99	110	M16
SK50-APU13-170	1-13	51.5	159	170	M24
SK50-APU16-120	3-16	58	106	120	M24
SK50-APU16-180	3-16	58	166	180	M24

- The shank and keyless drill chuck are combined together so that to avoid the drill chuck slipping out for heavy-duty and high-speed cutting.
- Each APU drill chuck attached 1 PC APU wrench.
- APU刀桿和鉗夾頭結為一體，用於重型及高速切削時，鉗頭不會掉落或鬆脫，APU刀桿附板手。



B TYPE DRILL CHUCK HOLDER B12/B16/B18

DRILL CHUCK HOLDER-鑽夾頭刀把 SK40/SK50-DIN2080



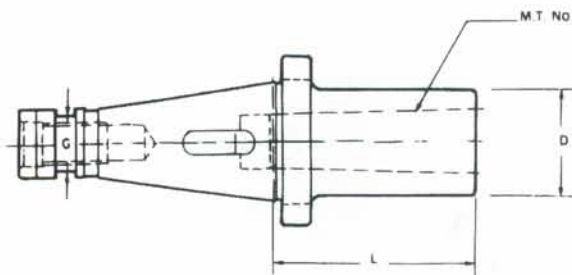
Taper No.	DIN Taper #	L1	L2	G
SK40-B12	B12	15	18.5	M16
SK40-B16	B16	17	24	M16
SK40-B18	B18	17	32	M16
SK50-B16	B16	20	24	M24
SK50-B18	B18	20	32	M24

- SK shank with drill chuck holder. Keyless taper mount is sold separately.
- 鉗夾頭另購品。



MTA MORSE TAPER HOLDER

MORSE TAPER HOLDER-莫氏斜度刀把A型 SK30/SK40/SK50-DIN2080



(Unit: mm)

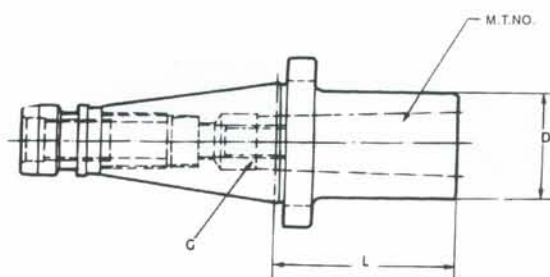
Model No.	MT.#	L	D	Capacity			G
				Drill	Reamer	End mill	
SK30-MTA1-50	1	50	25	ø2•ø14	ø5•ø14	ø10•ø14	M12
SK30-MTA2-50	2	50	32	ø14•ø23	ø14.5•ø23	ø16•ø22	M12
SK30-MTA3-75	3	75	40	ø23•ø32	ø24•ø32	ø24•ø32	M12
SK40-MTA1-50	1	50	25	ø2•ø14	ø5•ø14	ø10•ø14	M16
SK40-MTA2-50	2	50	32	ø14•ø23	ø14.5•ø23	ø16•ø22	M16
SK40-MTA3-65	3	65	40	ø23•ø32	ø24•ø32	ø24•ø32	M16
SK40-MTA4-95	4	95	50	ø32•ø50	ø32•ø50	ø35•ø50	M16
SK50-MTA1-45	1	45	25	ø2•ø14	ø5•ø14	ø10•ø14	M24
SK50-MTA2-60	2	60	32	ø14•ø23	ø14.5•ø23	ø16•ø22	M24
SK50-MTA3-65	3	65	40	ø23•ø32	ø24•ø32	ø24•ø32	M24
SK50-MTA4-70	4	75	50	ø32•ø50	ø32•ø50	ø35•ø50	M24
SK50-MTA5-105	5	105	65	ø50•ø75	ø50	ø40•ø75	M24

- SK tool holder for morse taper shank with internal tang



MTB MORSE TAPER HOLDER

MORSE TAPER HOLDER-莫氏斜度刀把B型 SK40/SK50-DIN2080



SK SERIES DIN2080

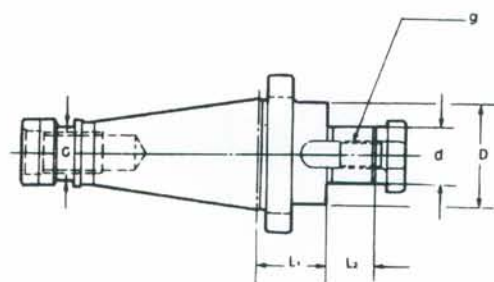
Model No.	MT.#	L	D	FIG.	Capacity			G
					Drill	Reamer	End mill	
SK40-MTB1-50	1	50	25	1	ø2•ø14	ø5•ø14	ø10•ø14	M16
SK40-MTB2-50	2	50	32	1	ø14•ø23	ø14.5•ø23	ø16•ø22	M16
SK40-MTB3-65	3	65	40	1	ø23•ø32	ø24•ø32	ø24•ø32	M16
SK40-MTB4-95	4	95	50	2	ø32•ø50	ø32•ø50	ø35•ø50	M16
SK50-MTB1-60	1	60	25	1	ø2•ø14	ø5•ø14	ø10•ø14	M24
SK50-MTB2-60	2	60	32	1	ø14•ø23	ø14.5•ø23	ø16•ø22	M24
SK50-MTB3-65	3	65	40	1	ø23•ø32	ø24•ø32	ø24•ø32	M24
SK50-MTB4-85	4	85	50	1	ø32•ø50	ø32•ø50	ø35•ø50	M24
SK50-MTB5-120	5	120	65	2	ø50•ø75	ø50	ø40•ø75	M24

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



FMB FACE MILL HOLDER -METRIC

FACE MILL HOLDER-平面銑刀把 SK40/SK50-DIN2080



Model No.	d	D	g	L1	L2	G
SK40-FMB16-20	16	38	M8	20	17	M16
SK40-FMB22-20	22	48	M10	20	19	M16
SK40-FMB27-20	27	58	M12	20	21	M16
SK40-FMB32-20	32	78	M16	20	24	M16
SK40-FMB40-20	40	88	M20	20	27	M16
SK50-FMB22	22	48	M10	30.2	19	M24
SK50-FMB27	27	58	M12	30.2	21	M24
SK50-FMB32	32	78	M16	30.2	24	M24
SK50-FMB40	40	88	M20	30.2	27	M24

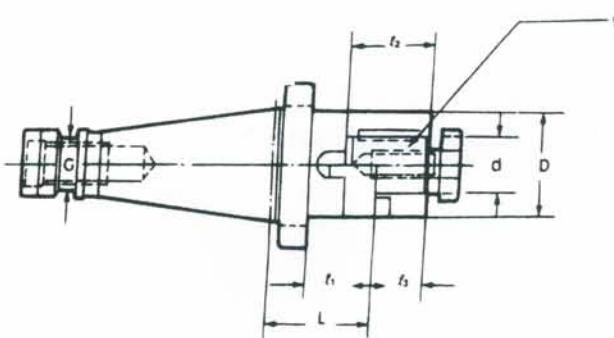
-Tool holder with SK shank for clamping face mill cutters. Face mill holders equipped with screws and drive keys to assemble the mill cutter to the holder.

-Face mill cutter is sold separately.

-FMB刀把適用於平面銑削加工。面銑刀盤為另購品。

CS-COMBINED FACE MILL HOLDER

SHELL MILL HOLDER-殼型銑刀把 SK40/SK50-DIN2080



Model No.	d	D	L	g	I1	I2	I3	G
SK40-CS16	16	32	51.6	M8	40	27	17	M16
SK40-CS22	22	40	51.6	M10	40	31	19	M16
SK40-CS27	27	48	51.6	M12	40	33	21	M16
SK40-CS32	32	58	51.6	M16	40	38	24	M16
SK40-CS40	40	70	51.6	M20	40	41	27	M16
SK50-CS16	16	32	55.2	M8	40	27	17	M24
SK50-CS22	22	40	55.2	M10	40	31	19	M24
SK50-CS27	27	48	55.2	M12	40	33	21	M24
SK50-CS32	32	58	55.2	M16	40	38	24	M24
SK50-CS40	40	70	55.2	M20	40	41	27	M24

-SK shank for clamping shell mill cutters.

-Shell mill holders equipped with screws and drive keys to assemble the mill cutter to the holder.

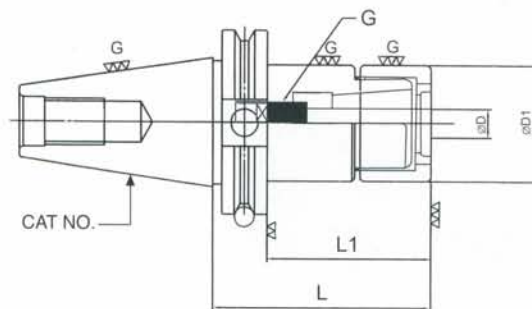
SK SERIES DIN2080



ASK HIGH SPEED COLLET CHUCK

PAT

ASK HIGH SPEED COLLET CHUCK-高轉速精密筒夾本體 CAT40/CAT50



ASK COLLET



WRENCH



ASK NUT

Model No.	D1	L1	L	G	ASK COLLET	COLLET RANGE
CAT40-ASK10-3.15"	27	55	3.15"	M10x1.5P	ASK10	ø2~ø10
CAT40-ASK10-4.00"	27	75	4.00"	M10x1.5P	ASK10	ø2~ø10
CAT40-ASK16-3.15"	40	55	3.15"	M16x2.0P	ASK16	ø3~ø16
CAT40-ASK16-4.00"	40	75	4.00"	M16x2.0P	ASK16	ø3~ø16
CAT40-ASK25-4.00"	54	85	4.00"	M24x3.0P	ASK25	ø6~ø25.4
CAT50-ASK10-4.00"	27	65	4.00"	M10x1.5P	ASK10	ø2~ø10
CAT50-ASK16-4.00"	40	65	4.00"	M16x2.0P	ASK16	ø3~ø16
CAT50-ASK16-6.00"	40	115	6.00"	M16x2.0P	ASK16	ø3~ø16
CAT50-ASK25-4.00"	54	65	4.00"	M24x3.0P	ASK25	ø6~ø25.4
CAT50-ASK25-6.00"	54	115	6.00"	M24x3.0P	ASK25	ø6~ø25.4

- ASK tooling systems are suitable for high-speed and high precision cutting.
- Special nuts designed provided better cutting conditions and reducing cutting vibrations.
- Wrench not included.
- Use the AA grade type ASK collets can be achieve the best cutting condition.
- Max speed: 30,000 r.p.m G2.5
- ASK系列適用於高轉速、高精密切削加工。切削效果佳。
- 螺帽獨特設計；高轉速切削時，降低風阻及切削噪音並提高工作效能。
- ASK板手為另購品。
- 配合使用AA級ASK筒夾，可達到最好的切削效果。
- Max speed: 30,000 r.p.m G2.5



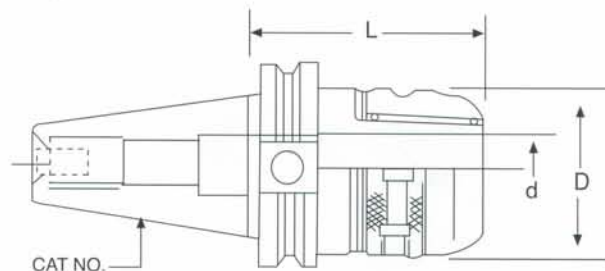
CAT SERIES



ASC MILLING CHUCK

PAT.

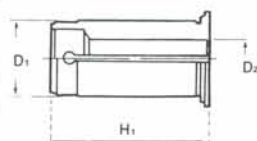
MILLING CHUCK-ASC- 強力銑刀夾頭 CAT40/CAT50



Model No.	Clamping Range	d	D	L	Collet Type
CAT40-ASC3/4"-3.75"	1/4"-3/4"	3/4"	2.13"	3.75"	SC3/4"
CAT40-ASC1"-3.15"	1/4"-1"	1"	2.28"	3.15"	SC1"
CAT40-ASC1-1/4"-3.75"	1/4"-1-1/4"	1-1/4"	2.67"	3.75"	SC1-1/4"
CAT50-ASC1"-3.55"	1/4"-1"	1"	2.28"	3.55"	SC1"
CAT50-ASC1-1/4"-4.15"	1/4"-1-1/4"	1-1/4"	2.67"	4.15"	SC1-1/4"

- Each ASC milling chuck attached 1 PC ASC C-type wrench.
- 每支ASC刀桿均附1支扳手

STRAIGHT COLLETS- 直束筒夾/索咀



Model No.	D1	D2	H1
SC3/4"	3/4"	1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8"	2.0"
SC1"	1"	1/4", 3/8", 7/16", 1/2", 5/8", 3/4"	2.5"
SC1-1/4"	1-1/4"	1/4", 3/8", 7/16", 1/2", 5/8", 3/4", 1"	2.8"

WRENCH-WASC25.4/WASC31.75-C 型扳手

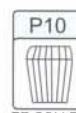
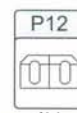
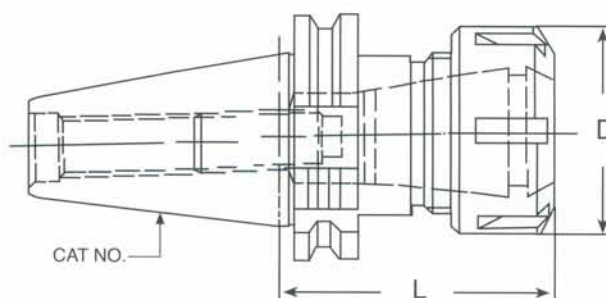


Model No.	D1	ASC TYPE CHUCK
WASC3/4"	2.13"	ASC3/4"(CAT40)
WASC1"	2.28"	ASC1"(CAT40)
WASC1-1/4"	2.67"	ASC1-1/4"(CAT40/CAT50)



ER COLLET CHUCK FOR COLLET TYPE

ER COLLET CHUCK-彈性筒夾本體 CAT40/CAT50



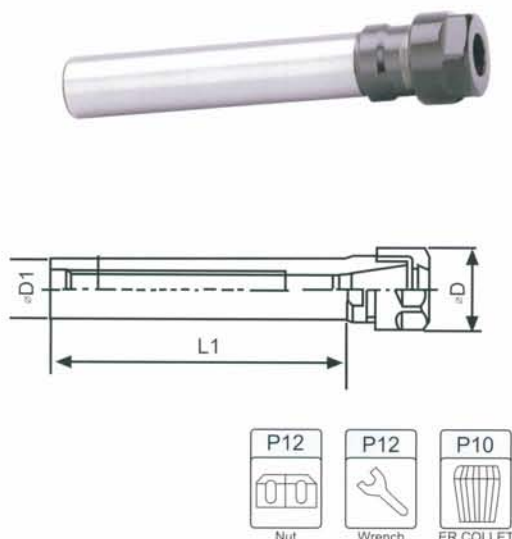
Model No.	Clamping Range	L	D	Collet Type	Wrench
CAT40-ER11-2.50"	1/32"-1/4"	2.50"	0.75"	ER11	--
CAT40-ER11-4.00"	1/32"-1/4"	4.00"	0.75"	ER11	--
CAT40-ER16-2.50"	1/32"-3/8"	2.50"	1.10"	ER16	WER16
CAT40-ER16-3.00"	1/32"-3/8"	3.00"	1.10"	ER16	WER16
CAT40-ER16-5.00"	1/32"-3/8"	5.00"	1.10"	ER16	WER16
CAT40-ER20-3.00"	1/32"-1/2"	3.00"	1.34"	ER20	WER20
CAT40-ER20-4.00"	1/32"-1/2"	4.00"	1.34"	ER20	WER20
CAT40-ER25-2.50"	1/32"-5/8"	2.50"	1.65"	ER25	WER25
CAT40-ER25-4.00"	1/32"-5/8"	4.00"	1.65"	ER25	WER25
CAT40-ER32-3.00"	1/16"-25/32"	3.00"	2.00"	ER32	WER32
CAT40-ER32-4.00"	1/16"-25/32"	4.00"	2.00"	ER32	WER32
CAT40-ER40-3.00"	3/32"-1"	3.00"	2.50"	ER40	WER40
CAT40-ER40-4.00"	3/32"-1"	4.00"	2.50"	ER40	WER40
CAT50-ER16-4.00"	1/32"-3/8"	4.00"	1.10"	ER16	WER16
CAT50-ER16-6.00"	1/32"-3/8"	6.00"	1.10"	ER16	WER16
CAT50-ER20-4.00"	1/32"-1/2"	4.00"	1.34"	ER20	WER20
CAT50-ER20-6.00"	1/32"-1/2"	6.00"	1.34"	ER20	WER20
CAT50-ER25-4.00"	1/32"-5/8"	4.00"	1.65"	ER25	WER25
CAT50-ER25-6.00"	1/32"-5/8"	6.00"	1.65"	ER25	WER25
CAT50-ER32-4.00"	1/16"-25/32"	4.00"	2.00"	ER32	WER32
CAT50-ER32-6.00"	1/16"-25/32"	6.00"	2.00"	ER32	WER32
CAT50-ER40-4.00"	3/32"-1"	4.00"	2.50"	ER40	WER40
CAT50-ER40-6.00"	3/32"-1"	6.00"	2.50"	ER40	WER40

- ER COLLETS CHUCK with the flexibility and can clamp drill, reamers, end mills and taps.
- ER11/ER16/ ER20 holder can make M type as your choice.
- ER16/ ER20/ER25/ER32/ER40 are also suitable for ER bearing nut and wrench.⇒refer to p12
- Wrench not included.
- ER11/ER16/ ER20刀桿有M型可供選擇。
- ER16/ ER20/ER25/ER32/ER40刀桿可另外選配鋼珠螺帽及板手。請參考p12
- ER板手為另購品。



ER COLLET CHUCK FOR COLLET TYPE

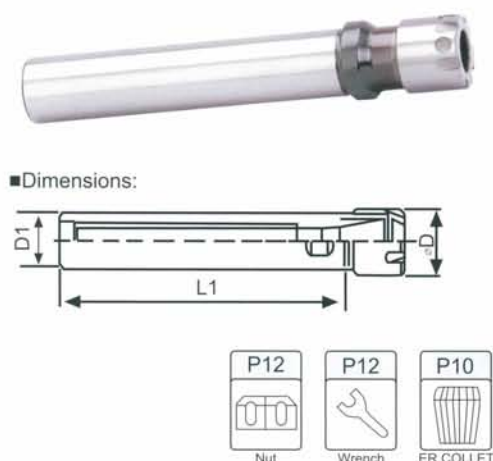
STRAIGHT SHANK- 直柄彈性筒夾本體 C3/4" / C1" / C1-1/4"



ModelNo.	D1	L1	D	Collet Type
C3/4"-ER16-2.00"	3/4"	2.00"	28	ER16
C3/4"-ER16-4.00"	3/4"	4.00"	28	ER16
C3/4"-ER16-6.00"	3/4"	6.00"	28	ER16
C3/4"-ER20-2.00"	3/4"	2.00"	34	ER20
C3/4"-ER20-4.00"	3/4"	4.00"	34	ER20
C3/4"-ER20-6.00"	3/4"	6.00"	34	ER20
C3/4"-ER25-2.00"	3/4"	2.00"	42	ER25
C3/4"-ER25-4.00"	3/4"	4.00"	42	ER25
C3/4"-ER25-6.00"	3/4"	6.00"	42	ER25
C1"-ER16-4.00"	1"	4.00"	28	ER16
C1"-ER16-6.00"	1"	6.00"	28	ER16
C1"-ER20-4.00"	1"	4.00"	34	ER20
C1"-ER20-6.00"	1"	6.00"	34	ER20
C1"-ER25-4.00"	1"	4.00"	42	ER25
C1"-ER25-6.00"	1"	6.00"	42	ER25
C1"-ER32-3.15"	1"	3.15"	50	ER32
C1"-ER40-4.00"	1"	4.00"	63	ER40
C1-1/4"-ER25-2.00"	1-1/4"	2.00"	42	ER25
C1-1/4"-ER32-4.00"	1-1/4"	4.00"	50	ER32
C1-1/4"-ER40-4.00"	1-1/4"	4.00"	63	ER40

- Straight shank with ER COLLET EXTENSIONS. It could used to extend tooling reach for extended length.Wrench not included.
- ER板手為另購品。

STRAIGHT SHANK-M TYPE 直柄彈性筒夾本體(M型) C5/8" / C3/4" / C1"



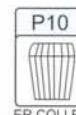
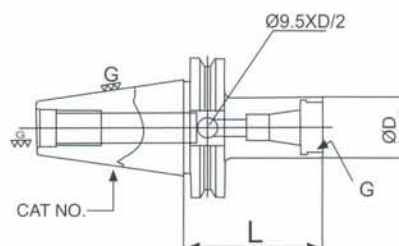
Model No.	D1	L1	D	Collet Type
C5/8"-ER11-2.00"(M)	5/8"	2.00"	16	ER11
C5/8"-ER11-4.00"(M)	5/8"	4.00"	16	ER11
C3/4"-ER16-2.00"(M)	3/4"	2.00"	22	ER16
C3/4"-ER16-4.00"(M)	3/4"	4.00"	22	ER16
C3/4"-ER16-6.00"(M)	3/4"	6.00"	22	ER16
C3/4"-ER20-2.00"(M)	3/4"	2.00"	28	ER20
C3/4"-ER20-4.00"(M)	3/4"	4.00"	28	ER20
C3/4"-ER20-6.00"(M)	3/4"	6.00"	28	ER20
C1"-ER20-2.00"(M)	1"	2.00"	28	ER20
C1"-ER20-4.00"(M)	1"	4.00"	28	ER20
C1"-ER20-6.00"(M)	1"	6.00"	28	ER20

- Straight shank with ER COLLET EXTENSIONS. It could used to extend tooling reach for extended length.Wrench not included.
- ER板手為另購品。



ERA HIGH SPEED COLLET CHUCK

ERA COLLET CHUCK-高速彈性筒夾本體 CAT40/CAT50



Model No.	Clamping Range	L	D	Collet Type	Wrench
CAT40-ERA11-2.50"	1/32"-1/4"	2.50"	0.75"	ER11	WERA11
CAT40-ERA11-4.00"	1/32"-1/4"	4.00"	0.75"	ER11	WERA11
CAT40-ERA16-2.50"	1/32"-3/8"	2.50"	1.10"	ER16	WERA16
CAT40-ERA16-3.00"	1/32"-3/8"	3.00"	1.10"	ER16	WERA16
CAT40-ERA16-5.00"	1/32"-3/8"	5.00"	1.10"	ER16	WERA16
CAT40-ERA20-3.00"	1/32"-1/2"	3.00"	1.25"	ER20	WERA20
CAT40-ERA20-4.00"	1/32"-1/2"	4.00"	1.25"	ER20	WERA20
CAT40-ERA25-2.50"	1/32"-5/8"	2.50"	1.50"	ER25	WERA25
CAT40-ERA25-4.00"	1/32"-5/8"	4.00"	1.50"	ER25	WERA25
CAT40-ERA32-3.00"	1/16"-25/32"	3.00"	1.81"	ER32	WERA32
CAT40-ERA32-4.00"	1/16"-25/32"	4.00"	1.81"	ER32	WERA32
CAT50-ERA16-4.00"	1/32"-3/8"	4.00"	1.10"	ER16	WERA16
CAT50-ERA16-6.00"	1/32"-3/8"	6.00"	1.10"	ER16	WERA16
CAT50-ERA20-4.00"	1/32"-1/2"	4.00"	1.25"	ER20	WERA20
CAT50-ERA20-6.00"	1/32"-1/2"	6.00"	1.25"	ER20	WERA20
CAT50-ERA25-4.00"	1/32"-5/8"	4.00"	1.50"	ER25	WERA25
CAT50-ERA25-6.00"	1/32"-5/8"	6.00"	1.50"	ER25	WERA25
CAT50-ERA32-4.00"	1/16"-25/32"	4.00"	1.81"	ER32	WERA32
CAT50-ERA32-6.00"	1/16"-25/32"	6.00"	1.81"	ER32	WERA32

- The new type ERA holder is available for ER COLLETS and easy to get.
- The clamping nuts for ERA are special designed to be fitted internally into the holder.
The special design could provide better cutting conditions and reducing cutting vibrations.
- Wrench not included.
- Max speed: 30,000 r.p.m G2.5
- 特殊內藏式螺帽設計：可降低及減少切削時所產生的阻力與振動，並提昇加工品質及穩定性。
- ERA板手為另購品。

ERA NUT & WRENCH-螺帽、板手



Model No.	B	C	COLLET TYPE	FIG.
ERA11-NUT	6	M18x1P	ER11	1
ERA16-NUT	8	M24x1P	ER16	1
ERA20-NUT	11	M28x1.5P	ER20	1
ERA25-NUT	12.5	M32x1.5P	ER25	1
ERA32-NUT	14	M40x1.5P	ER32	1
WERA11	Wrench for ERA11 TOOL HOLDER -ERA11板手			2
WERA16	Wrench for ERA16 TOOL HOLDER -ERA16板手			2
WERA20	Wrench for ERA20 TOOL HOLDER -ERA20板手			2
WERA25	Wrench for ERA25 TOOL HOLDER -ERA25板手			2
WERA32	Wrench for ERA32 TOOL HOLDER -ERA32板手			2



OZ / TG COLLET CHUCK & OZ/TG COLLET

OZ/COLLET CHUCK-重切削筒夾本體 CAT40/CAT50



Model NO.	D1	L	L1	D	Collet Type
CAT40-OZ25-2.25"	1/8"-1"	2.25"	1.18"	2.36"	OZ25
CAT40-OZ25-4.00"	1/8"-1"	4.00"	1.18"	2.36"	OZ25
CAT40-OZ32-2.25"	1/4"-1-1/4"	2.25"	1.30"	2.83"	OZ32
CAT40-OZ32-4.00"	1/4"-1-1/4"	4.00"	1.30"	2.83"	OZ32
CAT50-OZ25-2.25"	1/8"-1"	2.25"	1.18"	2.36"	OZ25
CAT50-OZ25-4.00"	1/8"-1"	4.00"	1.18"	2.36"	OZ25
CAT50-OZ32-2.25"	1/4"-1-1/4"	2.25"	1.30"	2.83"	OZ32
CAT50-OZ32-4.00"	1/4"-1-1/4"	4.00"	1.30"	2.83"	OZ32

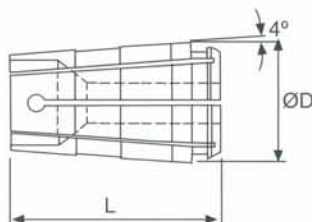
- CAT shank for OZ COLLET CHUCK can clamp drills, reamers, end mills and taps. Wrench not included.
- OZ重切削刀桿可用於夾持鉗頭、銑刀及絲攻刀具。

TG100 COLLET CHUCK-TG100 筒夾本體



Model NO.	L	D	Collet Type
CAT40-TG100-3.00"	3.00"	2.50"	TG100
CAT50-TG100-3.50"	3.50"	2.50"	TG100

TG100 COLLET



Model NO.	L	D	Taper
TG100	61	5	4°

Unit:mm

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

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

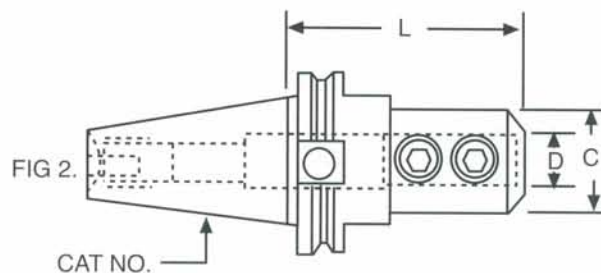
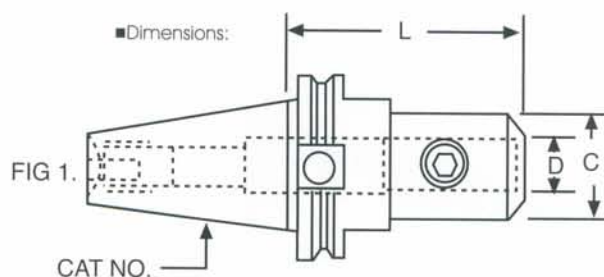
Model NO.	Size
TG100-9/64"	9/64"
TG100-11/64"	11/64"
TG100-13/64"	13/64"
TG100-15/64"	15/64"
TG100-17/64"	17/64"
TG100-19/64"	19/64"
TG100-21/64"	21/64"
TG100-23/64"	23/64"
TG100-25/64"	25/64"
TG100-27/64"	27/64"
TG100-29/64"	29/64"
TG100-31/64"	31/64"
TG100-33/64"	33/64"
TG100-35/64"	35/64"
TG100-37/64"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

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



EM END MILL HOLDER

END MILL HOLDER-側固端銑刀把 CAT40/CAT50

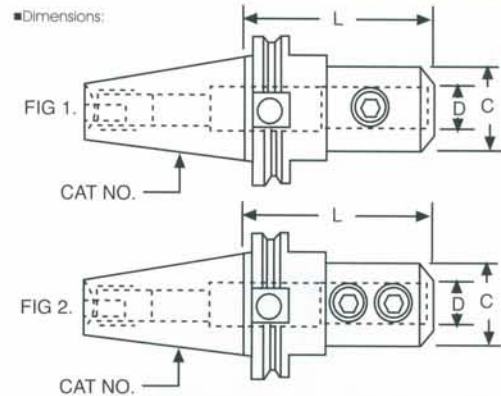


Model No.	D	C	L	Fig.
CAT40-EM.125-1.75"	0.125"	0.75"	1.75"	1
CAT40-EM.125-2.50"	0.125"	0.75"	2.50"	1
CAT40-EM.125-3.00"	0.125"	0.75"	3.00"	1
CAT40-EM.1875-1.75"	0.1875"	0.75"	1.75"	1
CAT40-EM.1875-2.50"	0.1875"	0.75"	2.50"	1
CAT40-EM.1875-3.00"	0.1875"	0.75"	3.00"	1
CAT40-EM.25-1.75"	0.25"	0.8125"	1.75"	1
CAT40-EM.25-2.50"	0.25"	0.8125"	2.50"	1
CAT40-EM.25-3.00"	0.25"	0.8125"	3.00"	1
CAT40-EM.3125-1.75"	0.3125"	0.875"	1.75"	1
CAT40-EM.3125-2.50"	0.3125"	0.875"	2.50"	1
CAT40-EM.3125-3.00"	0.3125"	0.875"	3.00"	1
CAT40-EM.375-1.75"	0.375"	1.00"	1.75"	1
CAT40-EM.375-2.50"	0.375"	1.00"	2.50"	1
CAT40-EM.375-3.00"	0.375"	1.00"	3.00"	1
CAT40-EM.4375-1.75"	0.4375"	1.375"	1.75"	1
CAT40-EM.4375-2.62"	0.4375"	1.375"	2.62"	1
CAT40-EM.5-1.75"	0.50"	1.375"	1.75"	1
CAT40-EM.5-2.50"	0.50"	1.375"	2.50"	1
CAT40-EM.5-3.00"	0.50"	1.375"	3.00"	1
CAT40-EM.625-1.75"	0.625"	1.625"	1.75"	1
CAT40-EM.625-3.00"	0.625"	1.625"	3.00"	1
CAT40-EM.75-1.75"	0.75"	1.75"	1.75"	1
CAT40-EM.75-3.00"	0.75"	1.75"	3.00"	1
CAT40-EM.875-1.75"	0.875"	2.00"	1.75"	1
CAT40-EM.875-3.50"	0.875"	2.00"	3.50"	2
CAT40-EM1-2.00"	1"	2.25"	2.00"	1
CAT40-EM1-3.00"	1"	2.375"	3.00"	2
CAT40-EM1.25-2.00"	1.25"	2.25"	2.00"	2
CAT40-EM1.25-3.00"	1.25"	2.50"	3.00"	2
CAT40-EM1.25-4.00"	1.25"	2.50"	4.00"	2
CAT40-EM1.5-4.00"	1.5"	3.00"	4.00"	2
CAT40-EM1.5-4.62"	1.5"	3.00"	4.62"	2

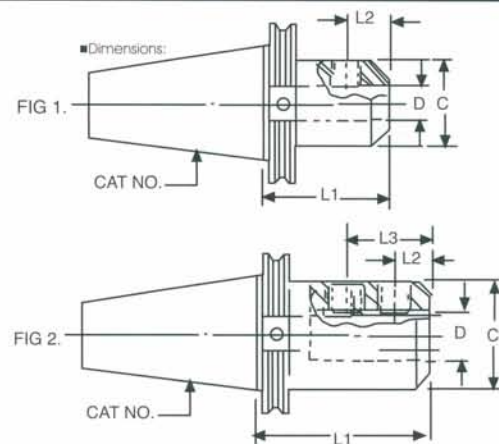
- For straight shank end mills.
- End mills are held by one or two set screws.
- End mill holders come equipped with set screws.
- 適用於夾持銑刀可用在一般切削加工。



END MILL HOLDER-側固端銑刀把 CAT40/CAT50



Model No.	D	C	L	Fig.
CAT50-EM.25-2.50"	0.25"	0.8125"	2.50"	1
CAT50-EM.25-4.00"	0.25"	0.8125"	4.00"	1
CAT50-EM.375-2.50"	0.375"	1.00"	2.50"	1
CAT50-EM.375-4.00"	0.375"	1.00"	4.00"	1
CAT50-EM.4375-2.50"	0.4375"	1.375"	2.50"	1
CAT50-EM.4375-4.00"	0.4375"	1.375"	4.00"	1
CAT50-EM.5-2.625"	0.50"	1.375"	2.625"	1
CAT50-EM.5-4.00"	0.50"	1.375"	4.00"	1
CAT50-EM.625-3.00"	0.625"	1.625"	3.00"	1
CAT50-EM.625-4.00"	0.625"	1.625"	4.00"	1
CAT50-EM.75-3.00"	0.75"	1.875"	3.00"	1
CAT50-EM.75-4.00"	0.75"	1.875"	4.00"	1
CAT50-EM.875-3.75"	0.875"	2.00"	3.75"	2
CAT50-EM1-4.00"	1.00"	2.375"	4.00"	2
CAT50-EM1.25-4.00"	1.25"	2.50"	4.00"	2
CAT50-EM1.5-4.50"	1.50"	3.00"	4.50"	2
CAT50-EM2-.5.375"	2.00"	3.75"	5.375"	2



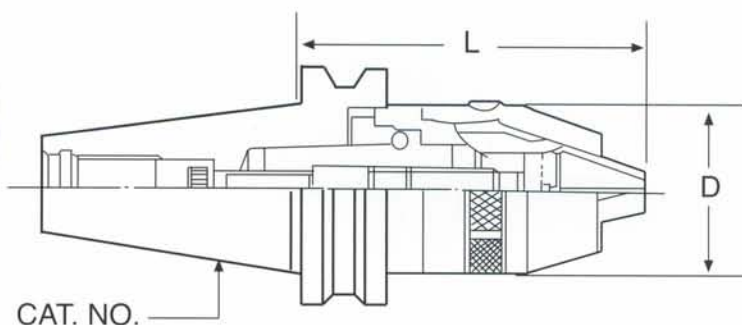
Model No.	Fig.	D	C	L1	L2	L3
CAT40-EM6-50	1	6	25	50	18	-
CAT40-EM8-50	1	8	28	50	18	-
CAT40-EM10-50	1	10	35	50	20	-
CAT40-EM12-50	1	12	42	50	22.5	-
CAT40-EM16-63	1	16	48	63	24	-
CAT40-EM20-63	1	20	52	63	25	-
CAT40-EM25-100	2	25	65	100	24	49
CAT40-EM32-100	2	32	72	100	24	52
CAT50-EM6-63	1	6	25	63	18	-
CAT50-EM8-63	1	8	28	63	18	-
CAT50-EM10-63	1	10	35	63	20	-
CAT50-EM12-63	1	12	42	63	22.5	-
CAT50-EM16-63	1	16	48	63	24	-
CAT50-EM20-63	1	20	52	63	25	-
CAT50-EM25-80	2	25	65	80	24	49
CAT50-EM32-100	2	32	72	100	24	52
CAT50-EM40-120	2	40	90	120	30	62
CAT50-EM50-130	2	50	100	130	35	70

- For straight shank end mills.
- End mills are held by one or two set screws.
- End mill holders come equipped with set screws.
- 適用於夾持銑刀可用在一般切削加工。



APU DRILL CHUCK HOLDER & JTA DRILL CHUCK HOLDER

APU DRILL CHUCK HOLDER-直截式鑽夾頭刀把 CAT40/CAT50



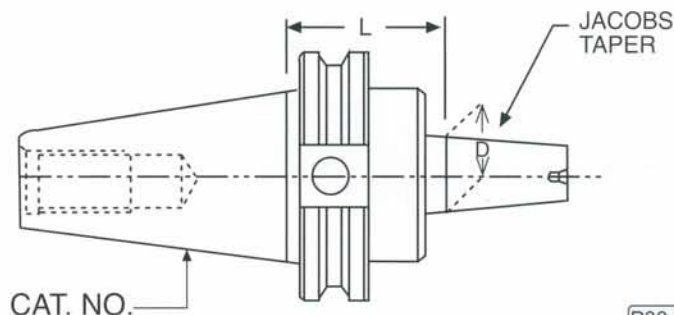
Model NO.	Clamping range		D		L			
	(ømm)	(øinch)	(mm)	(inch)	Minimum		Maximum	
CAT40-APU08	1-8	1/32"-5/16"	36.3	1.429"	65	2.559"	76.5	3.011"
CAT40-APU13	1-13	1/32"-1/2"	51.5	2.028"	88	3.464"	99	3.897"
CAT40-APU16	3-16	3/32"-5/8"	58	2.283"	106	4.173"	120	4.724"
CAT50-APU08	1-8	1/32"-5/16"	36.3	1.429"	70	2.755"	77.5	3.051"
CAT50-APU13	1-13	1/32"-1/2"	51.5	2.028"	89	3.503"	100	3.937"
CAT50-APU16	3-16	3/32"-5/8"	58	2.283"	96	3.779"	110	4.330"

- The shank and keyless drill chuck are combined together so that to avoid the drill chuck slipping out for heavy-duty and high-speed cutting.
- Each APU drill chuck attached 1 PC APU wrench.
- APU刀桿和鉗夾頭結為一體，用於重型及高速切削時，鉗頭不會掉落或鬆脫，APU刀桿附扳手。



JTA DRILL CHUCK HOLDER / JTA

JTA DRILL CHUCK HOLDER- 鉗夾頭刀把 CAT40/CAT50

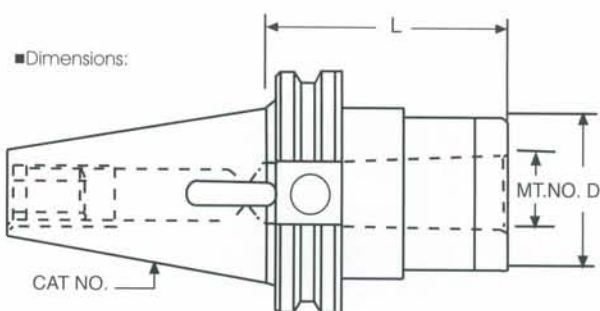


Model NO.	JT.NO.	D	L
CAT40-JTA1	1	0.384	1.375
CAT40-JTA2	2	0.548	1.375
CAT40-JTA6	6	0.676	1.375
CAT50-JTA1	1	0.384	1.375
CAT50-JTA2	2	0.548	1.375
CAT50-JTA6	6	0.676	1.375

- CAT shank with drill chuck holder. Keyless taper mount is sold separately.
- 鉗夾頭為另購品。

MTA MORSE TAPER HOLDER

MORSE TAPER HOLDER-莫氏斜度刀把 **CAT40/CAT50**



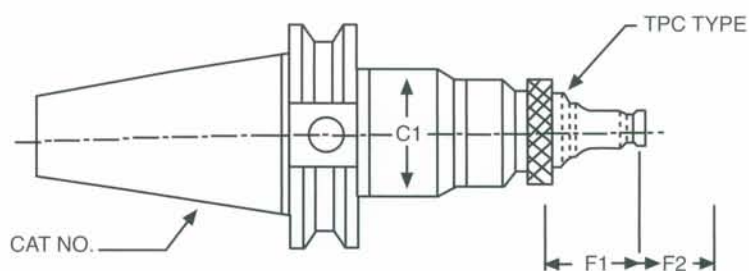
(Unit: mm)

Model No.	MT.NO.	D	L
CAT40-MTA1-1.75"	1	1.00"	1.75"
CAT40-MTA2-2.44"	2	1.25"	2.44"
CAT40-MTA3-3.00"	3	3.00"	3.00"
CAT40-MTA4-3.75"	4	3.75"	3.75"
CAT50-MTA1-1.50"	1	1.00"	1.50"
CAT50-MTA2-2.00"	2	1.25"	2.00"
CAT50-MTA3-2.50"	3	1.62"	2.50"
CAT50-MTA4-3.38"	4	2.20"	3.38"
CAT50-MTA5-3.75"	5	2.75"	3.75"

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

TPM TAP HOLDER-TENSION & COMPRESSION TAPER HOLDER

CAT40/CAT50-扭力伸縮攻牙本體



Tap collet

Model No.	C1		F1		F2		Tapping range		Adapter type
	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	
CAT40 -TPM316	48	1.890	10	0.394	20	0.787	M3-M16	3/32"-5/8"	TPC316
CAT50 -TPM316	48	1.890	10	0.394	20	0.787	M3-M16	3/32"-5/8"	TPC316
CAT40 -TPM830	66	2.598	10	0.394	25	0.984	M8-M30	5/16"-1 1/8"	TPC830
CAT50 -TPM830	66	2.598	10	0.394	25(80)	0.984	M8-M30	5/16"-1 1/8"	TPC830

Note: F1: Compression, F2: Tension

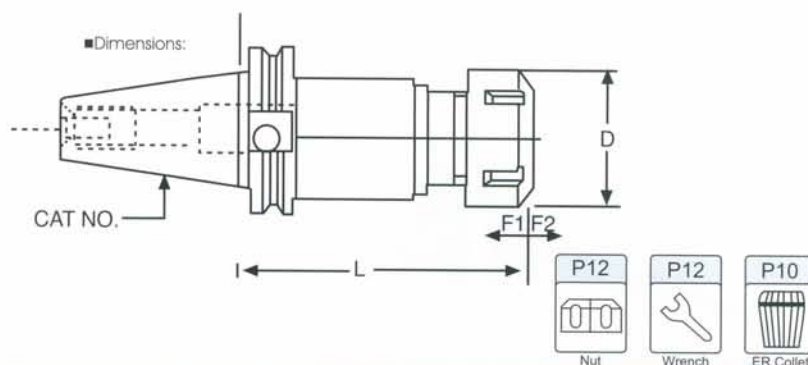
-CAT shank with taper tool holder.

-QUICK CHANGE: push back on the holder sleeve, and the tap collet is removable easily.



TER TAP HOLDER-RIGID TAPER HOLDER

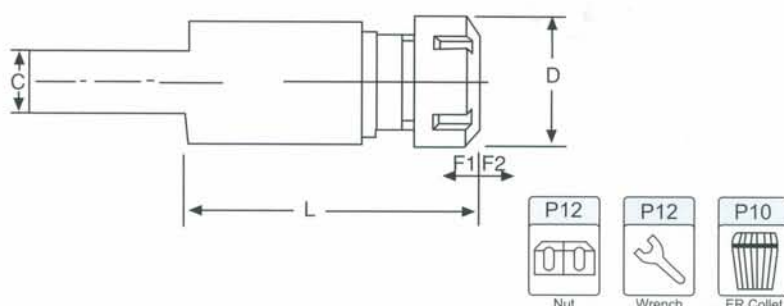
CAT40/CAT50-剛性攻牙本體



Model No.	Tapping Range	D	L	F1	F2	Collet type
CAT40-TER16	M3-M12 (3/32"-1/4")	28 (1.10)	77 (.0302)	5 (0.197)	8 (0.315)	ER16
CAT40-TER20	M3-M16 (5/32"-5/8")	34 (1.34)	86 (3.386)	5 (0.197)	8 (0.315)	ER20
CAT40-TER25	M3-M20 (3/16"-3/4")	42 (1.65)	90 (3.543)	5 (0.197)	8 (0.315)	ER25
CAT40-TER32	M3-M27 (5/16"-1 1/16")	50 (1.97)	94 (3.700)	5 (0.197)	8 (0.315)	ER32
CAT40-TER40	M3-M35 (1/2"-1 3/8")	63 (2.48)	98 (3.858)	5 (0.197)	8 (0.315)	ER40
CAT50-TER16	M3-M12 (3/32"-1/4")	28 (1.10)	80 (3.150)	5 (0.197)	8 (0.315)	ER16
CAT50-TER20	M3-M16 (5/22"-5/8")	34 (1.34)	99 (3.900)	5 (0.197)	8 (0.315)	ER20
CAT50-TER25	M3-M20 (3/10"-3/4")	42 (1.65)	97 (3.820)	5 (0.197)	8 (0.315)	ER25
CAT50-TER32	M3-M27 (5/16"-1 1/6")	50 (1.97)	95 (3.740)	5 (0.197)	8 (0.315)	ER32
CAT50-TER40	M3-M35 (1/2"-1 3/8")	63 (2.48)	117 (4.606)	5 (0.197)	8 (0.315)	ER40

-Rigid tap holder for CAT-ER-TYPE. The TER tap holder that uses ER SPRING COLLET and easy to get.
-Wrench not included.

C3/4"/C1"/C1-1/4"/C1-1/2"- 直柄剛性攻牙本體



Mode No.	Tapping Range	C	D	L	F1	F2	Collet type
C3/4"-TER16	M3-M12 (3/32"-1/4")	3/4"	28 (1.10)	75 (2.953)	5 (0.197)	12 (0.472)	ER16
C3/4"-TER20	M3-M16 (5/32"-5/8")	3/4"	34 (1.34)	80 (3.150)	5 (0.197)	12 (0.472)	ER20
C3/4"-TER25	M3-M20 (3/16"-3/4")	3/4"	42 (1.65)	80 (3.150)	5 (0.197)	12 (0.472)	ER25
C1"-TER16	M3-M12	1"	28 (1.10)	75 (2.953)	5 (0.197)	12 (0.472)	ER16
C1"-TER20	M3-M16	1"	34 (1.34)	80 (3.150)	5 (0.197)	12 (0.472)	ER20
C1"-TER25	M3-M20	1"	42 (1.65)	80 (3.150)	5 (0.197)	12 (0.472)	ER25
C1"-TER32	M3-M27 (5/16"-1 1/16")	1"	50 (1.97)	80 (3.150)	5 (0.197)	12 (0.472)	ER32
C1-1/4"-TER16	M3-M12	1-1/4"	28 (1.10)	75 (2.953)	5 (0.197)	12 (0.472)	ER16
C1-1/4"-TER20	M3-M16	1-1/4"	34 (1.34)	80 (3.150)	5 (0.197)	12 (0.472)	ER20
C1-1/4"-TER25	M3-M20	1-1/4"	42 (1.65)	80 (3.150)	5 (0.197)	12 (0.472)	ER25
C1-1/4"-TER32	M3-M27	1-1/4"	50 (1.97)	80 (3.150)	5 (0.197)	12 (0.472)	ER32
C1-1/2"-TER16	M3-M12	1-1/2"	28 (1.10)	75 (2.953)	5 (0.197)	12 (0.472)	ER16
C1-1/2"-TER20	M3-M16	1-1/2"	34 (1.34)	80 (3.150)	5 (0.197)	12 (0.472)	ER20
C1-1/2"-TER25	M3-M20	1-1/2"	42 (1.64)	80 (3.150)	5 (0.197)	12 (0.472)	ER25
C1-1/2"-TER32	M3-M27 (5/16"-1 1/16")	1-1/2"	50 (1.97)	80 (3.150)	5 (0.197)	12 (0.472)	ER32

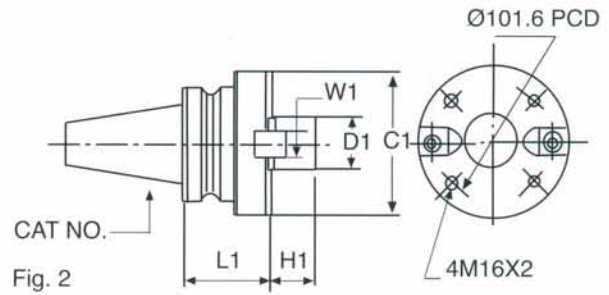
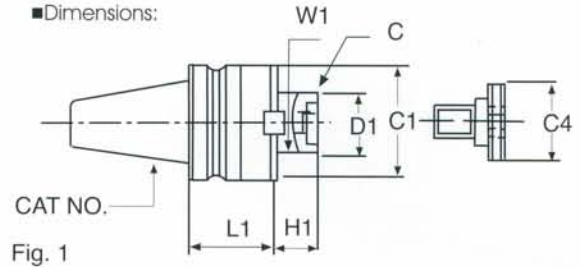
-Rigid tap holder for straight shank type. The TER tap holder that uses ER SPRING COLLET and easy to get.
-Wrench not included.



CAT40/CAT50-平面铣刀把



■Dimensions:



Unit:mm/inch

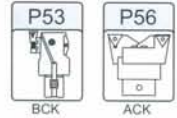
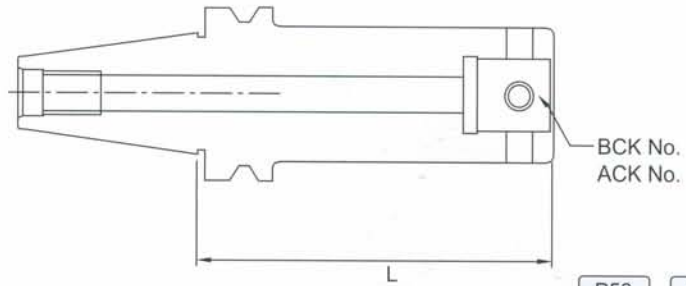
Model No.	Fig	D1	L1	H1	C1	W1
CAT40-SM25.4-1.75"	1	25.4 (1")	1.75"	17.5	2.362"	9.5 (0.374")
CAT40-SM31.75-2"	1	31.75 (1.25")	2"	17.5	2.756"	12.7 (0.5")
CAT40-SM38.1-2"	1	38.1 (1.5")	2"	23.8	3.346"	15.9 (0.626")
CAT50-SM25.4-1.75"	1	25.4 (1")	1.75"	17.5	2.362"	9.5 (0.374")
CAT50-SM25.4-4"	1	25.4 (1")	4"	17.5	2.362"	9.5 (0.374")
CAT50-SM25.4-6"	1	25.4 (1")	6"	17.5	2.362"	9.5 (0.374")
CAT50-SM31.75-1.75"	1	31.75 (1.25")	1.75"	17.5	2.756"	12.7 (0.5")
CAT50-SM31.75-4"	1	31.75 (1.25")	4"	17.5	2.756"	12.7 (0.5")
CAT50-SM31.75-6"	1	31.75 (1.25")	6"	17.5	2.756"	12.7 (0.5")
CAT50-SM38.1-2"	1	38.1 (1.5")	2"	23.8	3.346"	15.9 (0.626")
CAT50-SM38.1-4"	1	38.1 (1.5")	4"	23.8	3.346"	15.9 (0.626")
CAT50-SM38.1-6"	1	38.1 (1.5")	6"	23.8	3.346"	15.9 (0.626")
CAT50-SM50.8-2"	1	50.8 (2")	2"	24	3.74"	19.05 (0.75")
CAT50-SM50.8-4"	1	50.8 (2")	4"	24	3.74"	19.05 (0.75")
CAT50-SM50.8-6"	1	50.8 (2")	6"	24	3.74"	19.05 (0.75")
CAT50-SM47.625-3"	2	47.625 (1.875")	3"	32	5.26"	25.4 (1")

- Tool Holder with CAT shank for clamping face mill cutter. Face mill holders equipped with screws and drive keys to assemble the mill cutter to the holder.



ACK/BCK ADJUSTABLE BALANCE CUTTER TOOL HOLDER

CAT40/CAT50-ACK/BCK 搪孔刀柄



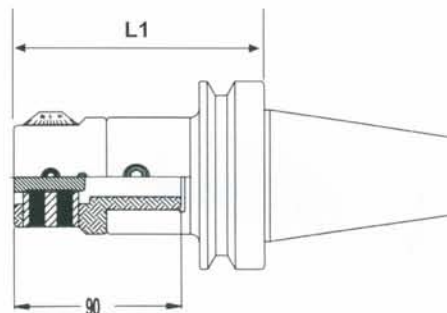
Model No.	L	Adapter Type	Cutter Type	Boring Range	
				Min.	Max.
CAT40-ACK1-60	2.63"(60)	ACK1	ACK19	0.75"(19)	0.98"(25)
CAT40-ACK1-80	3.15"(80)	ACK1	ACK19	0.75"(19)	0.98"(25)
CAT40-ACK2-60	2.63"(60)	ACK2	ACK25	0.98"(25)	1.30"(33)
CAT40-ACK2-80	3.15"(80)	ACK2	ACK25	0.98"(25)	1.30"(33)
CAT40-ACK2-100	3.94"(100)	ACK2	ACK25	0.98"(25)	1.30"(33)
CAT40-ACK2-120	4.72"(120)	ACK2	ACK25	0.98"(25)	1.30"(33)
CAT40-ACK3-60	2.63"(60)	ACK3	ACK32	1.26"(32)	1.65"(42)
CAT40-ACK3-80	3.15"(80)	ACK3	ACK32	1.26"(32)	1.65"(42)
CAT40-ACK3-100	3.94"(100)	ACK3	ACK32	1.26"(32)	1.65"(42)
CAT40-ACK3-120	4.72"(120)	ACK3	ACK32	1.26"(32)	1.65"(42)
CAT40-ACK4-80	3.15"(80)	ACK4	ACK40	1.57"(40)	2.17"(55)
CAT40-ACK4-100	3.94"(100)	ACK4	ACK40	1.57"(40)	2.17"(55)
CAT40-ACK4-125	4.92"(125)	ACK4	ACK40	1.57"(40)	2.17"(55)
CAT40-ACK5-80	3.15"(80)	ACK5	ACK52	2.05"(52)	2.76"(70)
CAT40-ACK5-100	3.94"(100)	ACK5	ACK52	2.05"(52)	2.76"(70)
CAT40-ACK5-135	5.31"(135)	ACK5	ACK52	2.05"(52)	2.76"(70)
CAT40-ACK6-55	2.17"(55)	ACK6	ACK68	2.68"(68)	3.62"(92)
CAT40-ACK6-55	2.17"(55)	ACK6	ACK90	3.54"(90)	4.80"(122)
CAT50-ACK2-90	3.54"(90)	ACK2	ACK25	0.98"(25)	1.30"(33)
CAT50-ACK2-125	4.92"(125)	ACK2	ACK25	0.98"(25)	1.30"(33)
CAT50-ACK3-90	3.54"(90)	ACK3	ACK32	1.26"(32)	1.65"(42)
CAT50-ACK3-125	4.92"(125)	ACK3	ACK32	1.26"(32)	1.65"(42)
CAT50-ACK4-115	4.53"(115)	ACK4	ACK40	1.57"(40)	2.17"(55)
CAT50-ACK4-175	6.89"(175)	ACK4	ACK40	1.57"(40)	2.17"(55)
CAT50-ACK5-90	3.54"(90)	ACK5	ACK52	2.05"(52)	2.76"(70)
CAT50-ACK5-135	5.31"(135)	ACK5	ACK52	2.05"(52)	2.76"(70)
CAT50-ACK5-195	7.68"(195)	ACK5	ACK52	2.05"(52)	2.76"(70)
CAT50-ACK6-110	4.33"(110)	ACK6	ACK68	2.68"(68)	3.62"(92)
CAT50-ACK6-110	4.33"(110)	ACK6	ACK90	3.54"(90)	4.80"(122)
CAT50-ACK6-170	6.69"(170)	ACK6	ACK68	2.68"(68)	3.62"(92)
CAT50-ACK6-170	6.69"(170)	ACK6	ACK90	3.54"(90)	4.80"(122)
CAT50-ACK6-215	8.46"(215)	ACK6	ACK68	2.68"(68)	3.62"(92)

- ACK19-ACK90 that boring range is from 19mm~122mm
- BCK30-BCK68 that boring range is from 30mm~102mm
- Balance cutting with two carbide inserts that reduce vibration and steady for cutting
- ACK19-ACK90其搪孔範圍為：19mm~122mm
- BCK30-BCK68其搪孔範圍為：30mm~102mm
- ACK刀頭雙層對稱式刀座設計可於加工時降低震動、斷屑容易。



NBJ16 MICRO BORING BAR

NBJ16 MICRO BORING SYSTEM-NBJ16- 微調搪孔系統



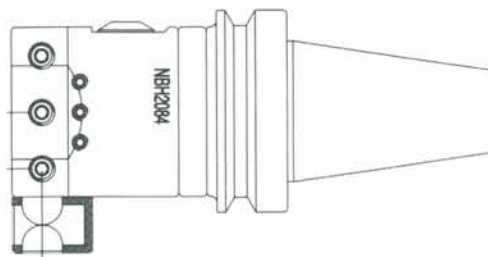
Model No.	Boring range 搪孔範圍	Shank Size 刀桿規格	L1
CAT40-NBJ16	06-51	CAT40 NBJ16-55	55
CAT50-NBJ16	06-51	CAT50 NBJ16-55	65

- NBJ16 is a small diameter boring system. In which diameter size, the boring range could be from 6~51mm.
- NBJ16 boring head can match BM1625 series for optional it can extend boring range to 68mm (6-68mm)=>refer to P.87
- BJ16 boring bar according to your request to choice.
- BJ16 boring bar and BJ16 8PCS must buy separately. =>refer to P.84
- NBJ16微調搪孔系統：搪孔範圍6~51mm。
- BJ16搪孔刀頭可另選配BM1625系列，可使搪孔範圍延展至68mm(6-68mm)=>請參考 P.87
- BJ16搪孔刀桿可依據需求自由選配。
- BJ16搪孔刀桿及BJ16 8PCS 搪刀組為另購品。=>請參考 P.84



NBH2084 MICRO BORING BAR

NBH2084 MICRO BORING SYSTEM-NBH2084- 微調搪孔系統



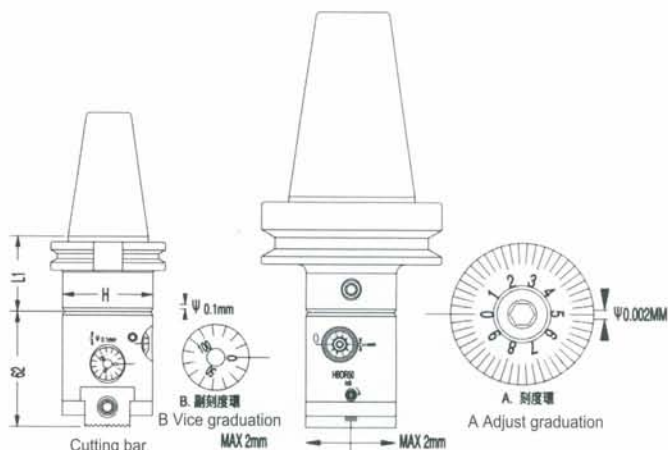
Model No.	Boring range 搪孔範圍	Shank Size 刀桿規格
CAT40-NBH2084/SET	08-280	CAT40-NBH2084
CAT50-NBH2084/SET	08-280	CAT50-NBH2084

- NBH2084 is a small diameter boring system in which diameter size ranges from 8~280mm.
- NBH2084 TOOL HOLDER SET: Already attached 3 PCS of BJ20 BORING BARS that choice by yourself.
- BJ20 boring bar according to your request to choice.=>refer to P.88
- NBH2084微調搪孔系統：搪孔範圍8~280mm。
- NBH2084搪孔組已附3支搪孔刀桿。=>請參考 P.88



HBOR50 MICRO BORING BAR

HBOR50 MICRO BORING SYSTEM-HBOR50 SET- 微調搪孔系統組



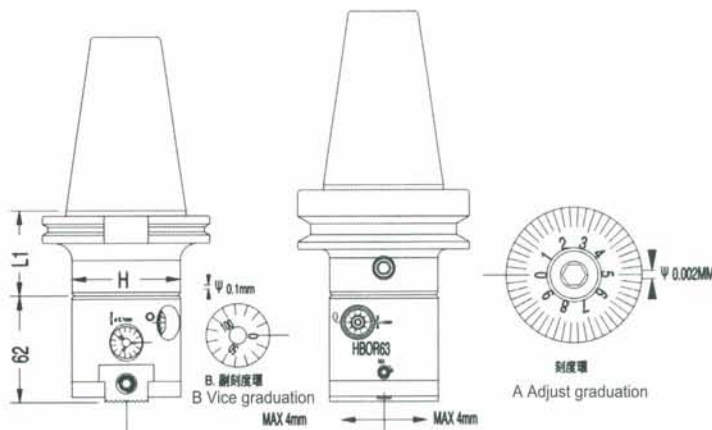
Model No.	Boring range 搪孔範圍	Shank Size 刀桿規格	L1
CAT40-HBOR50/SET	06-90	CAT40-ACK5-50	50
CAT50-HBOR50/SET	06-90	CAT50-ACK5-65	65

- HBOR50 is a set refers to micro finish boring system in which diameter size ranges from 6~90mm.
- The inside diameter of HBOR50 micro finish boring system is 16mm. With the combination of BR series, the diameter of HBOR50 can be within the range of 6~90mm now.
- All set of HBOR50 micro boring bar NOT including inserts.
- HBOR50 boring bar set.=>refer to P89
- HBOR50為微調搪孔系統組：搪孔範圍6~90mm。
- HBOR50極細微調搪孔本體中的內孔 $\varnothing 16$ 。組合BR系列小徑精搪孔刀桿使搪孔徑範圍為6~90。更為完整搪孔範圍組合。
- HBOR50整組規格=>請參考P89



HBOR63 MICRO BORING BAR

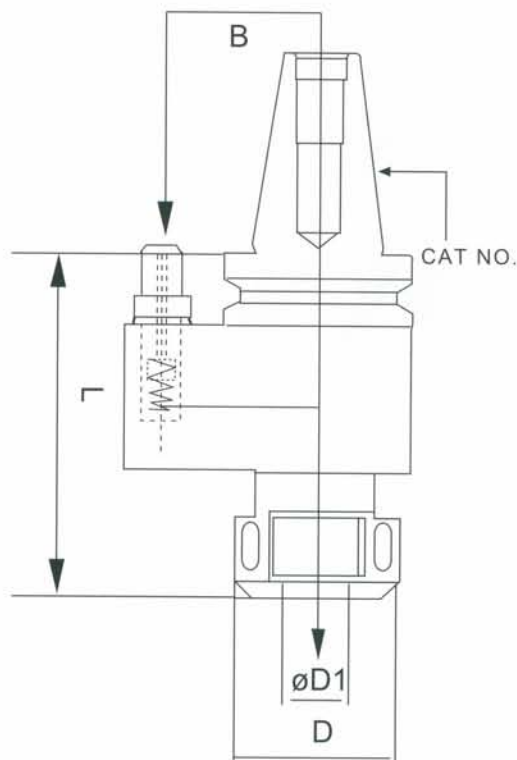
HBOR63 MICRO BORING SYSTEM-HBOR63 SET- 微調搪孔系統組



Model No.	Boring range 搪孔範圍	Shank Size 刀桿規格	L1
CAT40-HBOR63/SET	06-150	CAT40-ACK6-55	55
CAT50-HBOR63/SET	06-150	CAT50-ACK6-65	65

- HBOR63 is a set refers to micro finish boring system in which diameter size ranges from 6~150mm.
- The inside diameter of HBOR63 micro finish boring system is 16mm. With the combination of BR series, the diameter of HBOR63 can be within the range of 6~150mm now.
- HBOR63 boring head can match BM140 series for optional, it can extend boring range to 280mm (6-280mm)=>refer to P91
- All set of HBOR63 micro boring bar NOT including inserts.
- HBOR63 boring bar set.=>refer to P90
- HBOR63為微調搪孔系統組：搪孔範圍6~150mm。
- HBOR63極細微調搪孔本體中的內孔 $\varnothing 16$ 。組合BR系列小徑精搪孔刀桿使搪孔徑範圍為6~150。更為完整搪孔範圍組合。
- HBOR63微調搪孔組可另選配BM140系列，使其搪孔範圍延展至280mm (6-280mm)=>請參考P91。
- HBOR63整組規格=>請參考P90

CAT40/CAT50-ERO- 油路刀把



(Unit: mm)

Model No.	D1	D	L	中心距/B
CAT40-ERO32-145	ER32-ø4-ø20	50	145	60/65
CAT40-ERO40-150	ER40-ø4-ø25	63	150	60/65
CAT50-ERO32-160	ER32-ø4-ø20	50	155	80/82
CAT50-ERO40-160	ER40-ø4-ø25	63	160	80/82

- ERO OIL-FEED TOOL HOLDER : Must use ER COOLANT NUT & ER COOLANT COLLET.
- When ordering, please specify the B part of OIL-FEED HOLDER according to your machine.
- Positioning Block is necessary. It must buy separately. Positioning Block =>refer to P.95
- ERO油路刀把：請使用ER止水筒夾和止水螺帽。
- 請於訂購時，依據機台規格，確認中心距B的尺寸。
- ERO油路刀把止動塊為另購品=>請參考P.95

ER COOLANT COLLET- 止水型筒夾

ER32 COOLANT

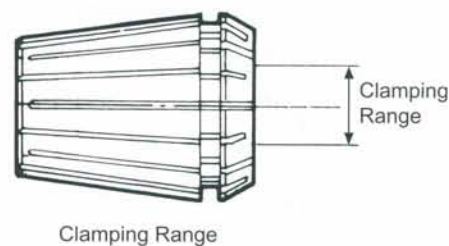
Model No.	Clamping Range
ER32-4C	4.0-3.0
ER32-5C	5.0-4.0
ER32-6C	6.0-5.0
ER32-7C	7.0-6.0
ER32-8C	8.0-7.0
ER32-9C	9.0-8.0
ER32-10C	10.0-9.0
ER32-11C	11.0-10.0
ER32-12C	12.0-11.0
ER32-13C	13.0-12.0
ER32-14C	14.0-13.0
ER32-15C	15.0-14.0
ER32-16C	16.0-15.0
ER32-17C	17.0-16.0
ER32-18C	18.0-17.0
ER32-19C	19.0-18.0
ER32-20C	20.0-19.0

ER40 COOLANT

Model No.	Clamping Range
ER40-4C	4.0-3.0
ER40-5C	5.0-4.0
ER40-6C	6.0-5.0
ER40-7C	7.0-6.0
ER40-8C	8.0-7.0
ER40-9C	9.0-8.0
ER40-10C	10.0-9.0
ER40-11C	11.0-10.0
ER40-12C	12.0-11.0
ER40-13C	13.0-12.0
ER40-14C	14.0-13.0
ER40-15C	15.0-14.0
ER40-16C	16.0-15.0
ER40-17C	17.0-16.0
ER40-18C	18.0-17.0
ER40-19C	19.0-18.0
ER40-20C	20.0-19.0

ER40 COOLANT

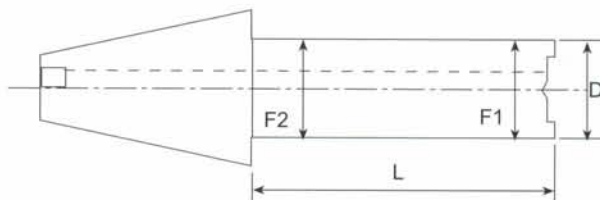
Model No.	Clamping Range
ER40-21C	21.0-20.0
ER40-22C	22.0-21.0
ER40-23C	23.0-22.0
ER40-24C	24.0-23.0
ER40-25C	25.0-24.0
ER40-26C	26.0-25.0





TA TEST BAR

TA TEST BAR- 測試棒



(Unit: mm)

Model No.	D	L
CAT40-TA40-160	40	160
CAT40-TA40-250	40	250
CAT50-TA40-250	40	250
CAT50-TA40-315	40	315
CAT50-TA40-350	40	350
CAT50-TA63-315	63	315
CAT50-TA63-350	63	350

-Test arbors are used to measure the runout of machine spindle.



TOOL LOCKING DEVICE

CAT-LOCKING DEVICE- 立臥兩用鎖刀座



CAT SERIES

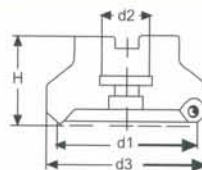
CAT	CAT30鎖刀座(CAT30-100-000)
	CAT40鎖刀座(CAT40-100-001)
	CAT50鎖刀座(CAT50-100-003)

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



FACE MILL CUTTER

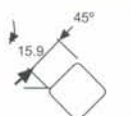
45°- 殼型銑刀盤



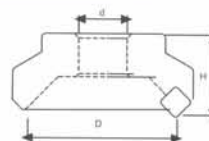
(Unit: mm)

Model No.	Insert 刀片	Dimensions(mm)				Parts	
		d1	d2	d3	H		
50A-SE4R45-4T	SEHW1204FTN	50	22/25.4	60	45	M4.5x0.75	FT-20
63A-SE4R45-5T		63	22/25.4	73	45		
80B-SE4R45-6T		80	25.4/27	90	50		
100B-SE4R45-6T		100	31.75/32	110	50		
125B-SE4R45-7/8/9T		125	38.1/40	135	63		
160C-SE4R45-10T		160	50.8/40	170	63		
200C-SE4R45-12T		200	60/47.625	210	63		
250C-SE4R45-14T		250	60/47.625	260	63		

SE545- 面銑刀盤



For indexable inserts SE 1504

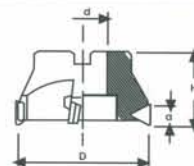


(Unit: mm)

Model No.	D	H	d	d(inch)	INo
SE545R0304	80	50	27	1"	4
SE545R0405	100	55	32	1-1/4"	5
SE545R0506	125	55	40	1-1/2"	6
SE545R0608	160	60	40	2"	8
SE545R0810	200	60	60	1-7/8"	10
SE545R1012	250	65	60	1-7/8"	12
SE545R1214	315	65	60	1-7/8"	14
SE545R1416	360	65	60	1-7/8"	16
SE545R0407	100	55	32	1-1/4"	7
SE545R0509	125	55	40	1-1/2"	9
SE545R0611	160	60	40	2"	11
SE545R0814	200	60	60	1-7/8"	14
SE545R1018	250	65	60	1-7/8"	18
SE545R1222	315	65	60	1-7/8"	22
SE545R1426	360	65	60	1-7/8"	26

Locator	Insert Clamp	Clamp Screw	Locator Screw	Washer	Wrench
SEL60-10	CP50-7	CS70-1	CS70-2	CS70-3	TWO40

TPR90°- 平面銑刀盤



(Unit: mm)

Model No.	D	d	H	刀片數	刀片長度
TPR-63X22	63	22	50	3	22
TPR-63X25.4	63	25.4	50	3	
TPR-63+△X22	63	22	50	3	
TPR-63+△X25.4	63	25.4	50	3	
TPR-03	80	25.4	55	4	
TPR-04	100	31.75	60	5	
TPR-05	125	38.1	60	6	
TPR-06	160	50.8	60	7	
TPR-08	200	47.625	65	8	
TPR-10	250	47.625	65	9	

REPLACEMENT PARTS 替換零件

Y-TPR5	Y-TPR1	Y-TPR2	YA-L5

SUITABLE INSERT 使用刀片規格

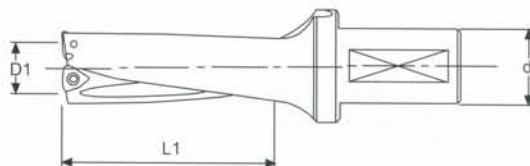
	TPR	TPMN-433
		(TPMN-220412)
		TPKN-43
		(TPKN-2204PPR)

- When ordering, please check inside dia of face mill cutter.(d)
- 請於訂購時確認平面銑刀盤孔徑規格(d)。


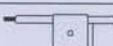


RAPID DRILLS THROW-AWAY INSERTS

捨棄式快速鑽頭-Dx2



(Unit: mm)

Model No.	Insert 刀片	Dimensions(mm)			Parts				
		D1	L1 (D x 2)	d					
14WCMX	WCMX030208	14	28	25	M2.5x0.45	T8			
15WCMX		15	30						
16WCMX		16	32						
17WCMX		17	34						
18WCMX		18	36						
19WCMX		19	38						
20WCMX		20	40						
21WCMX	WCMX040208	21	42	32	M2.5x0.45	T8			
22WCMX		22	44						
23WCMX		23	46						
24WCMX		24	48						
14WCMX	WCMX030208	14	28		40	M2.5x0.45	T8		
15WCMX		15	30						
16WCMX		16	32						
17WCMX		17	34						
18WCMX		18	36						
19WCMX		19	38						
20WCMX		20	40						
21WCMX	WCMX040208	21	42			M3.5x0.6	T10		
22WCMX		22	44						
23WCMX		23	46						
24WCMX		24	48						
25WCMX	WCMX050308	25	50					M3.5x0.6	T10
26WCMX		26	52						
27WCMX		27	54						
28WCMX		28	56						
29WCMX		29	58						
30WCMX		30	60						
31WCMX	WCMX06T308	31	62			M3.5x0.6	T15		
32WCMX		32	64						
33WCMX		33	66						
34WCMX		34	68						
35WCMX		35	70						
36WCMX		36	72						
37WCMX		37	74						
38WCMX	WCMX06T308	38	76		40	M3.5x0.6	T15		
39WCMX		39	78						
40WCMX		40	80						
41WCMX		41	82						
42WCMX		42	84						
43WCMX	WCMX080408	43	86	40	M4x0.7				
44WCMX		44	88						
45WCMX		45	90						
46WCMX		46	92						
47WCMX		47	94						
48WCMX		48	96						
49WCMX		49	98						
50WCMX		50	100						
51WCMX		51	102						
52WCMX		52	104						
53WCMX		53	106						
54WCMX		54	108						
55WCMX	WCMX06T308 4片刀片 (W)for inserts	55	110	40	M3.5x0.6				
56WCMX		56	112						
57WCMX		57	114						
58WCMX		58	116						
59WCMX		59	118						
60WCMX		60	120						
61WCMX		61	122						
62WCMX		62	124						
63WCMX		63	126						
64WCMX		64	128						

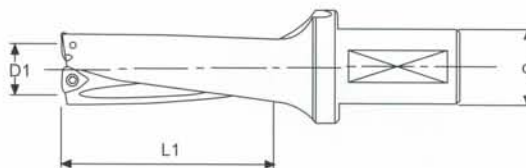
- Please advice the shank size of d for 14WCMX-24WCMX. Inserts must be buy separately.

- 請於訂購時確認14WCMX-24WCMX柄徑規格。刀片為另購品。


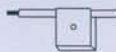


RAPID DRILLS THROW-AWAY INSERTS

捨棄式快速鑽頭-Dx3



(Unit: mm)

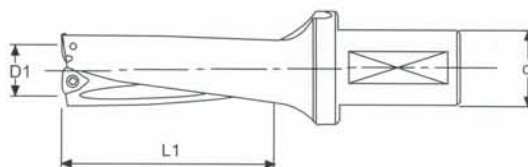
Model No.	Insert 刀片	Dimensions(mm)			Parts		
		D1	L1 (D x 3)	d			
14WCMX	WCMX030208	14	42	25	M2.5x0.45	T8	
15WCMX		15	45				
16WCMX		16	48				
17WCMX		17	51				
18WCMX		18	54				
19WCMX		19	57				
20WCMX		20	60				
21WCMX	WCMX040208	21	63	32	M2.5x0.45	T8	
22WCMX		22	66				
23WCMX		23	69				
24WCMX		24	72				
14WCMX	WCMX030208	14	42		32	M2.5x0.45	T8
15WCMX		15	45				
16WCMX		16	48				
17WCMX		17	51				
18WCMX		18	54				
19WCMX		19	57				
20WCMX		20	60				
21WCMX	WCMX040208	21	63		M2.5x0.45	T8	
22WCMX		22	66				
23WCMX		23	69				
24WCMX		24	72				
25WCMX	WCMX050308	25	75		32	M3.5x0.6	T10
26WCMX		26	78				
27WCMX		27	81				
28WCMX		28	84				
29WCMX		29	87				
30WCMX		30	90				
31WCMX	WCMX06T308	31	93	32	M3.5x0.6	T15	
32WCMX		32	96				
33WCMX		33	99				
34WCMX		34	102				
35WCMX		35	105				
36WCMX		36	108				
37WCMX		37	111				
38WCMX	WCMX06T308	38	114	40	M3.5x0.6	T15	
39WCMX		39	117				
40WCMX		40	120				
41WCMX	WCMX06T308	41	123	40	M3.5x0.6		T15
42WCMX		42	126				
43WCMX	WCMX080412	43	129	40	M4x0.7		T15
44WCMX		44	132				
45WCMX		45	135				
46WCMX		46	138				
47WCMX		47	141				
48WCMX		48	144				
49WCMX		49	147				
50WCMX		50	150				
51WCMX		51	153				
52WCMX		52	156				
53WCMX		53	159				
54WCMX		54	162				

- Please advice the shank size of d for 14WCMX-24WCMX. Inserts must be buy separately.
- 請於訂購時確認14WCMX-24WCMX柄徑規格。刀片為另購品。





RAPID DRILLS THROW-AWAY INSERTS

捨棄式快速鑽頭-Dx3

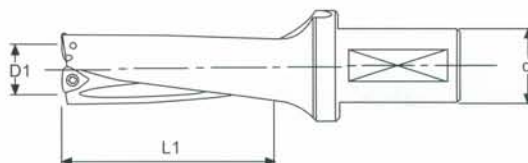


(Unit: mm)



Model No.	Insert 刀片	Dimensions(mm)			Parts	
		D1	L1 (D x 3)	d		
55WCMX	WCMX06T308 4片刀片 (W)for inserts	55	165	40	M3.5x0.6	T15
56WCMX		56	168			
57WCMX		57	171			
58WCMX		58	174			
59WCMX		59	177			
60WCMX		60	180			
61WCMX		61	183			
62WCMX		62	186			
63WCMX		63	189			
64WCMX		64	192			

- Inserts must be buy separately.
- 刀片為另購品。

捨棄式快速鑽頭-Dx4



(Unit: mm)

Model No.	Insert 刀片	Dimensions(mm)			Parts	
		D1	L1 (D x 4)	d		
14WCMX	WCMX030208	14	56	32	M2.5x0.45	T8
16WCMX		16	64			
19WCMX		19	76			
20WCMX		20	80			
21WCMX	WCMX040208	21	84		M3x0.5	T10
22WCMX		22	88			
23WCMX		23	92			
24WCMX		24	96			
25WCMX	WCMX050308	25	100		M3.5x0.6	T15
26WCMX		26	104			
27WCMX		27	108			
28WCMX		28	112			
29WCMX	WCMX06T308	29	120		M4x0.7	T15
34WCMX		34	136			
39WCMX		39	156			
41WCMX		41	164			
43WCMX	WCMX080412	43	172	40	M3.5x0.6	T15
44WCMX		44	176			
47WCMX		47	188			
50WCMX		50	200			
54WCMX	WCMX06T308	54	216		M3.5x0.6	T15
59WCMX		59	236			

- Inserts must be buy separately.
- 刀片為另購品。



MECHANICAL EDGE FINDER-機械式尋邊器

FIG:1



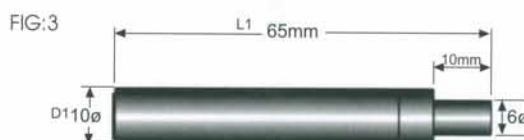
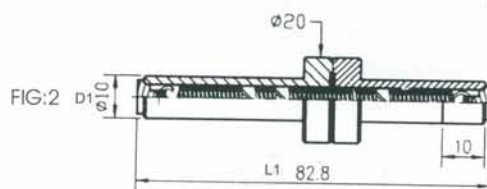
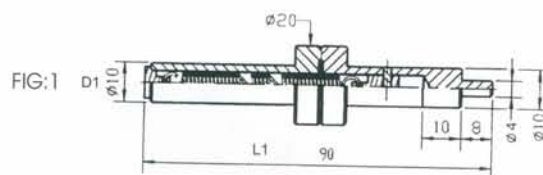
FIG:2



FIG:3



Model No.	Fig.	D1	L1
PM10-FIG.1	1	10	90
PM10-FIG.2	2	10	82.8
ME-610	3	10	65



CERAMIC EDGE FINDER-陶瓷尋邊器

FIG:1



FIG:2



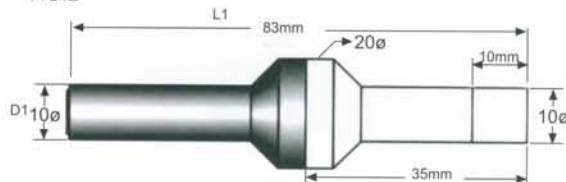
Model No.	Fig.	D1	L1
SH-1020	1	10	86
WH-1020	2	10	83

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

FIG:1



FIG:2



ROTARY EDGE FINDER-ME-P1+P2- 迴轉式尋邊器ME-P1+P2

FIG:1



FIG:2



Model No.	Fig.	D1	L1
ME-P1	1	10	93
ME-P2	2	10	144
ME-P1+P2	3		

- The entire group has makes rust prevention processing, it will place for a long time will not rust.
- 整組做特殊防鏽處理。

FIG:1

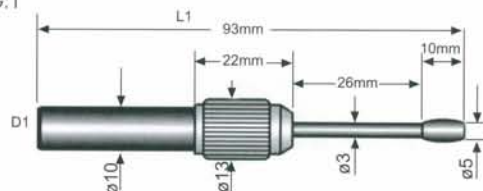
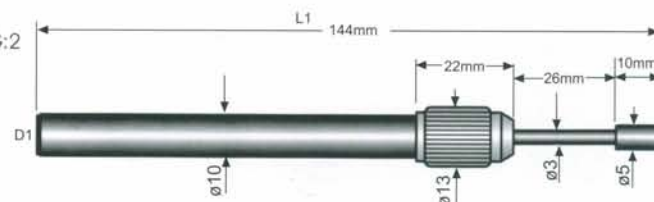


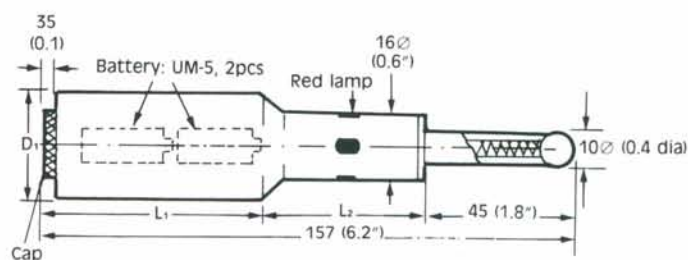
FIG:2





PM HIGH SENSITIVE ELECTRONIC EDGE SENSOR

PM20/PM32-光電式尋邊器



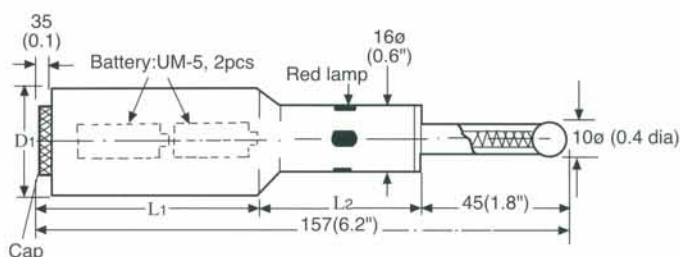
Model No.	D1	L1	L2
PM20	20	77	35
PM32	32	71	41



*Easy location of work face,
O.D, I.D

*Spring-retained sensor ball pro-
tects the unit against over-run.

PM3/4", PM1-1/4"- 光電式尋邊器



Model No.	D1	L1	L2
PM3/4"	19.05(3/4")	77	35
PM1-1/4"	31.75(1-1/4")	71	41

- High sensitive edge sensor with red LED lamp and beep sound
Instant indication by red LED lamp at very light contact of sensor ball with workpiece
Clear and highly visible indication by red LED lamp.
Red lamp illuminated all around shank body. No dead angle for visibility.

3D-SENSORS-HAIMER-3D 萬向尋邊器



Model No.	HAIMER 編號	ACCURACY 精度	CLAMPING SHANK 柄徑
3D 尋邊器 (3D-Sensors)	80.360.00	0.01mm	20mm
3D 短針 (3D-Short Needle)	80.362.00	0.01mm	20mm
3D 長針 (3D-Long Needle)	80.363.00	0.01mm	20mm



Z-ZERO SETTER ZIP-50A/ASM50/ZAP50 & SM100/ASM100

Z軸測定器

Setting High:50mm

FIG:1



FIG:2



FIG:3



Model No.	Fig.	Setting High
ZIP50A	1	50mm+/-0.005
ASM50	2	50mm+/-0.005
ZAP50	3	50mm+/-0.005

- Easy,quick,simple for setting tool length on the machine center.
- Base with magnetic.
- 在電腦銑床上設定刀長用。
- 底座有磁性。

Setting High:100mm

FIG:1



ASM-100

FIG:2



SM-100

Model No.	Fig.	Setting High
ASM100	1	100mm+/-0.005
SM100	2	100mm+/-0.005

- ASM100- Fig.1:Base with magnetic
- SM100-Fig.2:Magnetic base function can be used in vertical position & horizontal position.
- 在電腦銑床上設定刀長用。
- 底座有磁性。



TOOL STAND & TOOL SHEATH

TOOL STAND-刀具架-單面&雙面 FIG:1



Model No.	Shank Size	Tool Capacity
#30 TOOL STAND(刀具架)-FIG.1	BT/NT/CAT/NC30	64 PCS
#40 TOOL STAND(刀具架)-FIG.1	BT/NT/CAT/NC40	56 PCS
#50 TOOL STAND(刀具架)-FIG.1	BT/NT/CAT/NC50	40 PCS
#30 TOOL STAND(刀具架)-FIG.2	BT/NT/CAT/NC30	128 PCS
#40 TOOL STAND(刀具架)-FIG.2	BT/NT/CAT/NC40	112 PCS
#50 TOOL STAND(刀具架)-FIG.2	BT/NT/CAT/NC50	80 PCS

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

TOOL SHEATH-刀具盒



Model No.	Size	Shank Size
#30 TOOL SHEATH(刀具盒)	64Wx137Dx48Hmm	BT/NT/CAT/NC30
#40 TOOL SHEATH(刀具盒)	74Wx137Dx63Hmm	BT/NT/CAT/NC40
#50 TOOL SHEATH(刀具盒)	104Wx137Dx93Hmm	BT/NT/CAT/NC50

TOOL TROLLEY-刀具車

FIG:1



FIG:2



Model No.	Shank Size	Tool Capacity(刀具盒)	Drawer(附抽屜)
#30 TOOL TROLLEY(刀具車)-FIG.1	BT/NT/CAT/NC30	32 PCS	x
#40 TOOL TROLLEY(刀具車)-FIG.1	BT/NT/CAT/NC40	28 PCS	x
#50 TOOL TROLLEY(刀具車)-FIG.1	BT/NT/CAT/NC50	20 PCS	x
#30 TOOL TROLLEY(刀具車)-FIG.2	BT/NT/CAT/NC30	32 PCS	2-SET
#40 TOOL TROLLEY(刀具車)-FIG.2	BT/NT/CAT/NC40	28 PCS	2-SET
#50 TOOL TROLLEY(刀具車)-FIG.2	BT/NT/CAT/NC50	20 PCS	2-SET

- Easy to move and provides convenient way to stores your tool holder and any accessories.
- The tool sheath can replace.



MOBILE TOOL TROLLY

TC-特殊活動工具車

TC-S23

570Wx345Dx650Hmm
(所註高度不含輪高160mm)
(H is not including wheel-160mm)

適用於狹窄場地

S型mini超小型工具車

	W	D	H
小抽	480	292	75
大抽	480	290	154

單位:mm



TC-LT25

680Wx460Dx830Hmm
(所註高度不含輪高160mm)
(H is not including wheel-160mm)

加大大面置物盤

L型 大型工具車

	W	D	H
小抽	569	398	73
大抽	569	398	153

單位:mm



- *落地型工具車，加輪設計、移動自如，抽屜均加裝鋼珠滑軌，順暢拉抽。
- *每抽可承載40kg
- *中控抽屜均附保險鎖
- *堅固櫃體，承受力強
- *以標準超耐重符合各種尺寸之"車輪"搭配
- *粉體烤漆車體，防磨損及溶劑侵蝕

CK-CLAMPING KIT-萬能夾具組 52-PCS STEEL CLAMPING KIT



Model No.	Table Slot(T-slot)	Stud Size
CK-103A	7/16"	3/8"-16NC
CK-103B	1/2"	3/8"-16NC
CK-104A	9/16"	1/2"-12NC
CK-104B	5/8"	1/2"-12NC
CK-104C	9/16"	1/2"-13NC
CK-105A	11/16"	5/8"-11
CK-105B	3/4"	5/8"-11
CK-08	10	M08x1.25P
CK-10	12	M10x1.50P
CK-12A	14	M12x1.75P
CK-12B	16	M12x1.75P
CK-14	16	M14x2.0P
CK-16	18	M16x2.0P
CK-18	20	M18x2.5P
CK-20	22	M20x2.5P

- 24pcs. Stud Each Size x 4pcs: 3",4",5",6",7",8"
- 6pcs Table Slot(T-slot)
- 6pcs Flanged Nuts
- 4pcs Coupling Nut
- 6pcs Step Clamps
- 6pcs 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
- 4個接頭螺帽
- 6個齒型壓版
- 6個齒型墊版

- 適用各型機械工作台面T型槽之規格，專為模具、治具板等固定使用。



MODULAR CONCENTRICITY TEST GAUGE

A.T.C.-三點組合模具

Taper Shank	Fig	Model No.	A	B	C
MAS403-BT	1	BT30-ATC			
		BT40-ATC			
		BT50-ATC			
SK-DIN69871A	1	SK30-ATC			
		SK40-ATC			
		SK50-ATC			
CAT	1	CAT30-ATC			
		CAT40-ATC			
		CAT50-ATC			
HSK	2	HSK50A-ATC	50	25	25
		HSK63A-ATC	63	32	30
		HSK100A-ATC	100	50	40

FIG:1

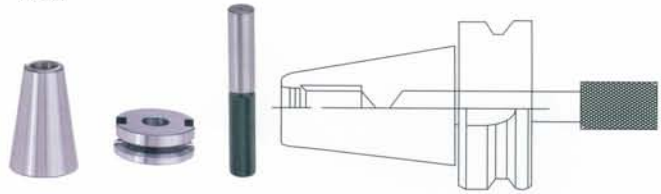


FIG:2



-Use for test the ATC device of machine center.



TOOL LOCKING DEVICE

BT/SK/CAT-LOCKING DEVICE- 立臥兩用鎖刀座

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



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



SPINDLE TAPER WIPERS

CA-主軸清潔棒

Model No.	Taper No.	Fig.
CA-30	#30	1
CA-40	#40	1
CA-50	#50	1
CA-HSK50A+C	HSK50A+C	2
CA-HSK63A+C	HSK63A+C	2
CA-HSK100A+C	SK100A+C	2

FIG:1



FIG:2

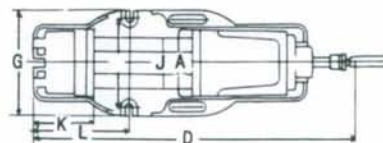
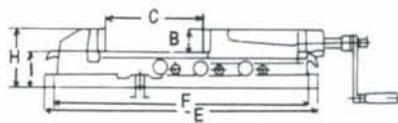
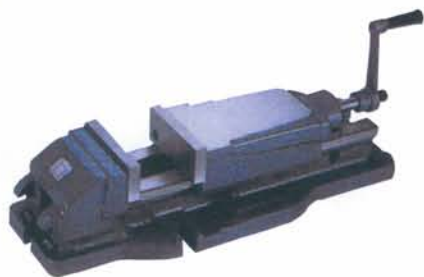


-Made of plastic and wool .
-The spindle taper wipers can quick-clean machine spindle.



HYDRAULIC MACHINE VISE

油壓內藏式虎鉗-HP4/HP5/HP6/HP8(WITHOUT SWIVEL BASE/WITH SWIVEL BASE)



(Unit: mm)

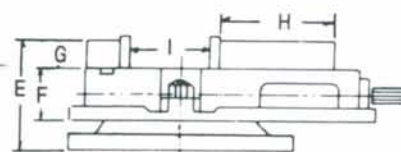
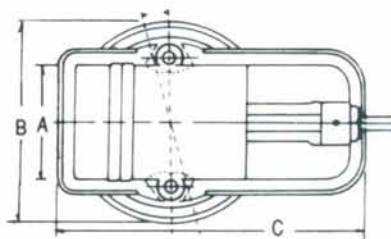
MODEL	A	B	C	D	E	F	G	H	I	J	K	L	N.W.(kg)
HP-4"	100	36	170	525	430	130	160	94	60	78	100	155	16
HP-5"	125	46	220	670	540	135	185	118	72	97	117	185	32
HP-6"	150	51	300	800	620	200	240	133	82	116	125	247	51
HP-8"	200	62	300	900	700	240	280	162	100	160	165	266	90

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



PRECISION ANGLE LOCK MACHINE VISE

角固式虎鉗-SAV4/SAV5/SAV6/SAV8(WITHOUT SWIVEL BASE/WITH SWIVEL BASE)



(Unit: mm)

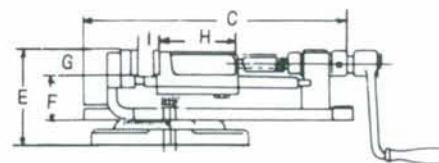
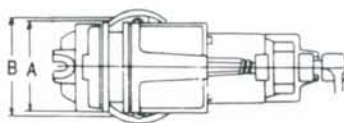
MODEL	A	B	C	E	F	G	H	I	N.W.(kg)
SAV-4"	100	220	320	133	65	38	115	110	16
SAV-5"	125	240	360	146	70	38	132	130	32
SAV-6"	150	290	430	161	72	48	170	150	51
SAV-8"	200	370	600	193	85	58	190	210	90

- Quick of clamping & locking and easy to operate for setting positions of the jaw plate.
- When ordering, please advice the VISE without swivel base (W/O) or with swivel base (W).
- 請於訂購時確認虎鉗為有底或無底。



K-TYPE MACHINE VISE

K型虎鉗-SKV4/SKV5/SKV6/SKV8(WITHOUT SWIVEL BASE/WITH SWIVEL BASE)



(Unit: mm)

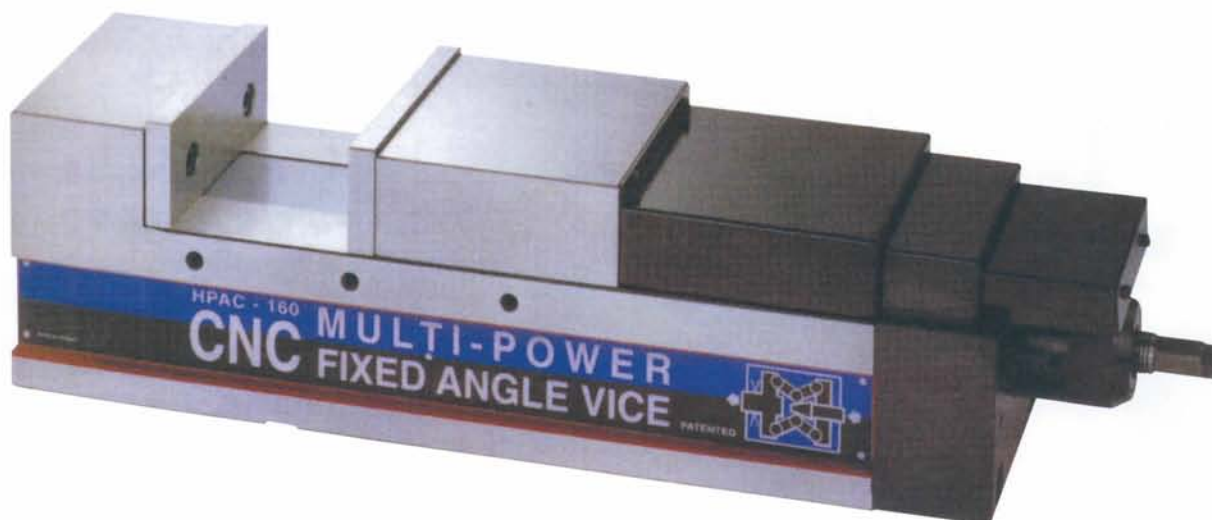
MODEL	A	B	C	E	F	G	H	I	N.W.(kg)
SKV-4"	100	120	95	81	55	38	90	62	9
SKV-5"	125	160	380	135	60	40	115	80	16
SKV-6"	150	190	460	150	65	43	135	115	28
SKV-8"	200	240	620	185	85	60	190	150	53

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

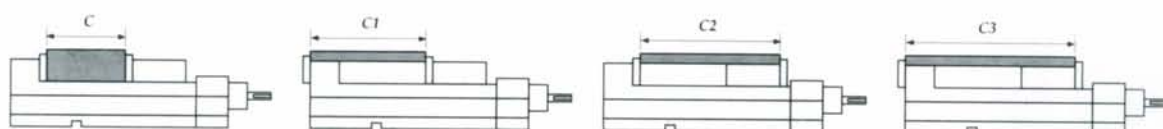


CNC MULTI-POWER FIXED ANGLE VISE

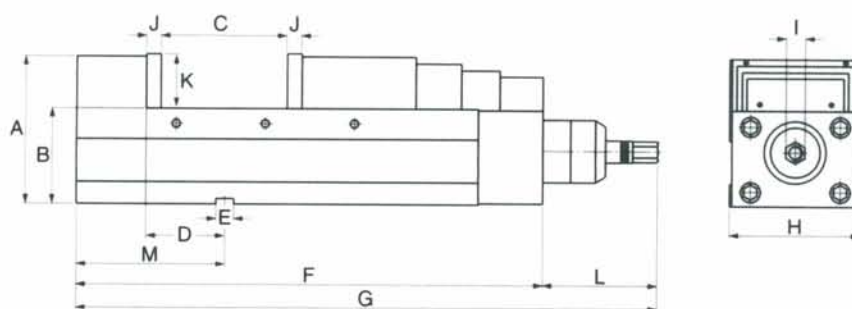
CNC 多功能角固式虎鉗-HPAC130/HPAC160/HPAC200



四種爪不同位置的尺寸圖-DIMENSIONS FOR 4 JAW PLATE POSITIONS



尺寸圖-DIMENSIONS



規格表

(Unit: mm)

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

Max Clamping Force	G	H	I	J	K	L	M	重量
6000 kg	583	131	19	15	55	120	150	47
8000 kg	670	161	19	15	58	120	165	65
8000 kg	743	201	19	18	63	120	197	95

- Extremely high accuracy
- Adjustable clamping force:0~8000KGS(夾持力量:0~8000KGS)

AW-HB300-刀具預調儀



型號/ Model No.	AW-HB300	
量測範圍/ Range of measurement:	直徑(X):300mm	高度(Y):30~300mm
數顯解析度-X值/ Resolution-X Axis	0.005mm	
數顯解析度-Y值/ Resolution-Y Axis	0.005mm	
主軸直徑/ Taper shank	標準Standard:#50	選配Optional:#40,#30
電源/ Power source	AC110V/220V	50HZ/60HZ
尺寸/ Machine size	860x560x900mm(LxWxH)	
重量/ Machine weight	102KGS	
標準配件/ STANDARD ACCESSORIES		
顯示器/ Readout Device	光學尺/ Digital Readout	
校正棒/ Test Bar	BT50 Dia:40mm L:200mm	
百分錶/ Dial Gauge	2PCS	

AW-H300-刀具預調儀



型號/ Model No.	AW-H300	
量測範圍/ Range of measurement:	直徑(X):300mm	高度(Y):30~400mm
數顯解析度-X值/ Resolution-X Axis	0.005mm	
數顯解析度-Y值/ Resolution-Y Axis	0.005mm	
主軸直徑/ Taper shank	標準Standard:#50	選配Optional:#40,#30
電源/ Power source	AC110V/220V	50HZ/60HZ
尺寸/ Machine size	860x560x950mm(LxWxH)	
重量/ Machine weight	105KGS	
標準配件/ STANDARD ACCESSORIES		
顯示器/ Readout Device	光學尺/ Digital Readout	
校正棒/ Test Bar	BT50 Dia:40mm L:200mm	
百分錶/ Dial Gauge	2PCS	

AW-XZ400-刀具預調儀



型號/ Model No.	AW-XZ400	
量測範圍/ Range of measurement:	直徑(X):400mm	高度(Y):30~400mm
數顯解析度-X值/ Resolution-X Axis	0.005mm	
數顯解析度-Y值/ Resolution-Y Axis	0.005mm	
主軸錐度/ Taper shank	標準Standard:#50	選配Optional:#40,#30
電源/ Power source	AC110V/220V	50HZ/60HZ
尺寸/ Machine size	930x600x950mm(LxWxH)	
重量/ Machine weight	108KGS	
標準配件/ STANDARD ACCESSORIES		
顯示器/ Readout Device	光學尺/ Digital Readout	
校正棒/ Test Bar	BT50 Dia:40mm L:200mm	
百分錶/ Dial Gauge	2PCS	

Optional-選配 **Sleeve/轉換套筒**



主軸錐度: #50 / Spindle Taper: #50	
型號/ Model No.	說明/ Description
BT50-TA40	Spindle taper #50 to #40
BT50-TA30	Spindle taper #50 to #30

主軸錐度: #40 / Spindle Taper: #40	
型號/ Model No.	說明/ Description
BT40-TA30	Spindle taper #40 to #30

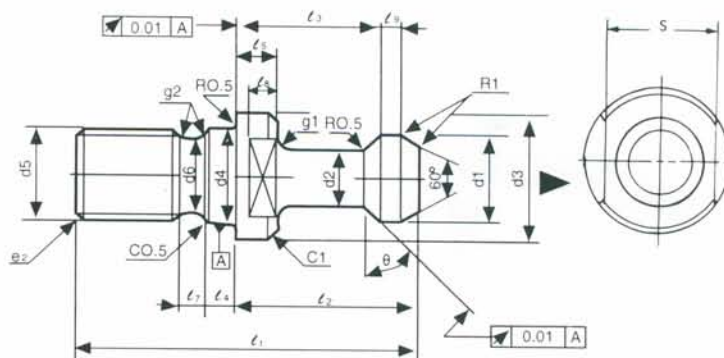
Cabinet-儲存櫃



型號/ Model No.	儲存櫃/ Cabinet
長x寬x高	760L x 500W x 680H mm
適用刀具預調儀/ Suit for	AW-HB300 / AW-H300 / AW-XZ400
重量	55KGS



BT-拉桿/拉頭

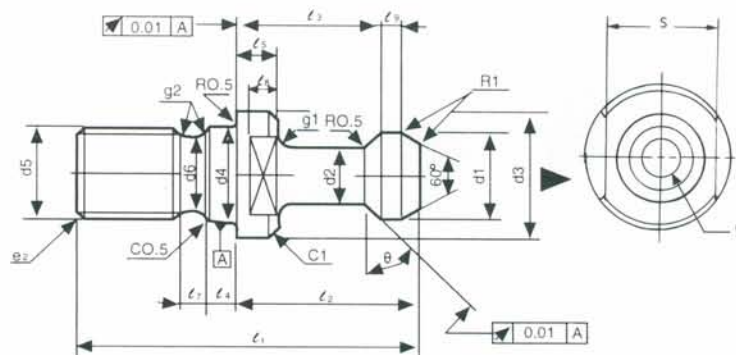


Model No.	ℓ1	d4	d5	d6	e2	g2	ℓ4	ℓ7	d3	g1	ℓ5	S	d1	d2	ℓ2	ℓ3	ℓ9	θ
BT30-30	43	12.5	M12	9.5	1.75	1	4	3	16.5	2	5	13	11	7	23	18	2.5	30
BT30-45	43	12.5	M12	9.5	1.75	1	4	3	16.5	2	5	13	11	7	23	18	2.5	45
BT30-60	43	12.5	M12	9.5	1.75	1	4	3	16.5	2	5	13	11	7	23	18	2.5	60
BT30-90	43	12.5	M12	9.5	1.75	1	4	3	16.5	2	5	13	11	7	23	18	2.5	90
BT40-30	60	17	M16	13	2	1	5	4	23	3	6	19	15	10	35	28	3	30
BT40-45	60	17	M16	13	2	1	5	4	23	3	6	19	15	10	35	28	3	45
BT40-60	60	17	M16	13	2	1	5	4	23	3	6	19	15	10	35	28	3	60
BT40-90	60	17	M16	13	2	1	5	4	23	3	6	19	15	10	35	28	3	90
BT50-30	85	25	M24	20	3	1.5	8	5	38	5	10	30	23	17	45	35	5	30
BT50-45	85	25	M24	20	3	1.5	8	5	38	5	10	30	23	17	45	35	5	45
BT50-60	85	25	M24	20	3	1.5	8	5	38	5	10	30	23	17	45	35	5	60
BT50-90	71	25	M24	20	3	1.5	8	5	36	5	10	30	24	18	31	35	5	90
BT50-90L	85	25	M24	20	3	1.5	8	5	38	5	10	30	23	17	45	35	5	90

- For BT SHANK



BT-拉桿/拉頭-中心出水



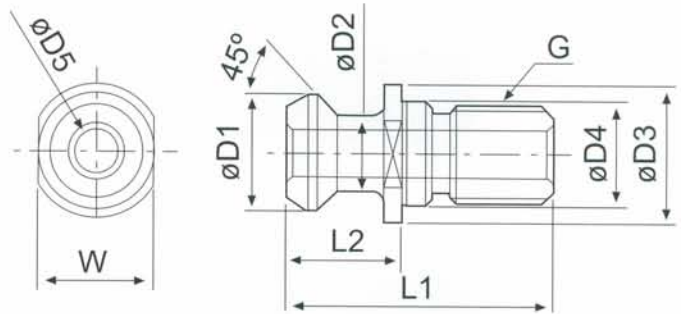
(Unit: mm)																			
Model No.	ℓ1	d4	d5	d6	e2	g2	ℓ4	ℓ7	d3	g1	ℓ5	S	d1	d2	ℓ2	ℓ3	ℓ9	t coolant	θ
BT30-30 COOLANT	43	12.5	M12	9.5	1.75	1	4	3	16.5	2	5	13	11	7	23	18	2.5	2.5	30
BT30-45 COOLANT	43	12.5	M12	9.5	1.75	1	4	3	16.5	2	5	13	11	7	23	18	2.5	2.5	45
BT30-60 COOLANT	43	12.5	M12	9.5	1.75	1	4	3	16.5	2	5	13	11	7	23	18	2.5	2.5	60
BT30-90 COOLANT	43	12.5	M12	9.5	1.75	1	4	3	16.5	2	5	13	11	7	23	18	2.5	2.5	90
BT40-30 COOLANT	60	17	M16	13	2	1	5	4	23	3	6	19	15	10	35	28	3	4	30
BT40-45 COOLANT	60	17	M16	13	2	1	5	4	23	3	6	19	15	10	35	28	3	4	45
BT40-60 COOLANT	60	17	M16	13	2	1	5	4	23	3	6	19	15	10	35	28	3	4	60
BT40-90 COOLANT	60	17	M16	13	2	1	5	4	23	3	6	19	15	10	35	28	3	4	90
BT50-30 COOLANT	85	25	M24	20	3	1.5	8	5	38	5	10	30	23	17	45	35	5	6	30
BT50-45 COOLANT	85	25	M24	20	3	1.5	8	5	38	5	10	30	23	17	45	35	5	6	45
BT50-60 COOLANT	85	25	M24	20	3	1.5	8	5	38	5	10	30	23	17	45	35	5	6	60
BT50-90 COOLANT	71	25	M24	20	3	1.5	8	5	30	5	10	30	24	18	31	35	5	6	90
BT50-90L COOLANT	85	25	M24	20	3	1.5	8	5	38	5	10	30	23	17	45	35	5	6	90

CAT SERIES



PULL STUD

BT40/BT50-MAZAK-拉桿/拉頭



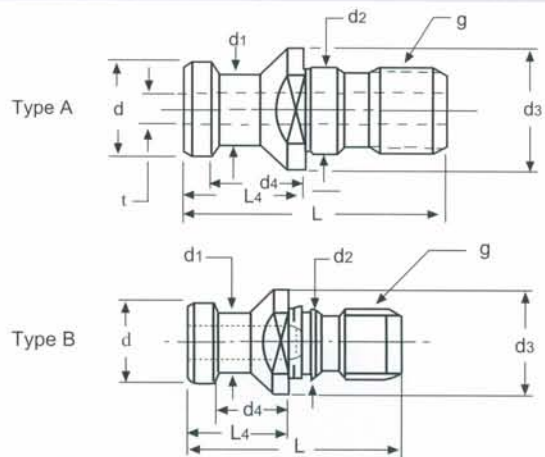
Model No.	L1	L2	D1	D2	D3	D4	D5	W	G
BT40 MAZAK	44.1	19.1	18.8	12.45	22	17	7	19	M16
BT50 MAZAK	65.2	25.2	29	20.83	36	25	10	30	M24

PULL STUD-DIN69872A/B-拉桿/拉頭

DIN69872A



DIN69872B



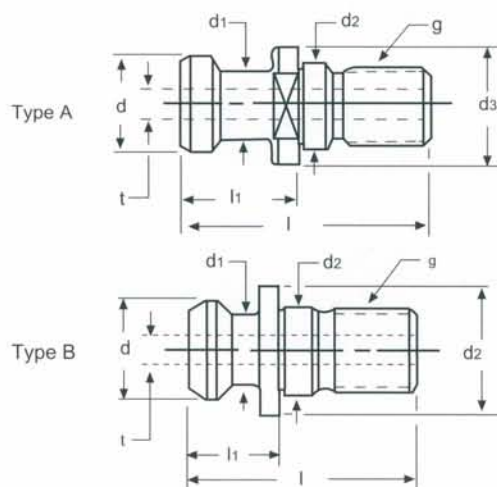
Model No.	Type	L	L4	d	d1	d2	d3	d4	t
DIN69872A-P16D	A	54	26	19	14	17	23	20	7.5
DIN69872A-P24D	A	74	34	28	21	25	36	25	11.5
DIN69872B-P16D	B	54	26	19	14	17	23	20	-
DIN69872B-P24D	B	74	34	28	21	25	36	25	-

PULL STUD-ISO7388A/B-拉桿/拉頭

ISO 7388/2A



ISO 7388/2B

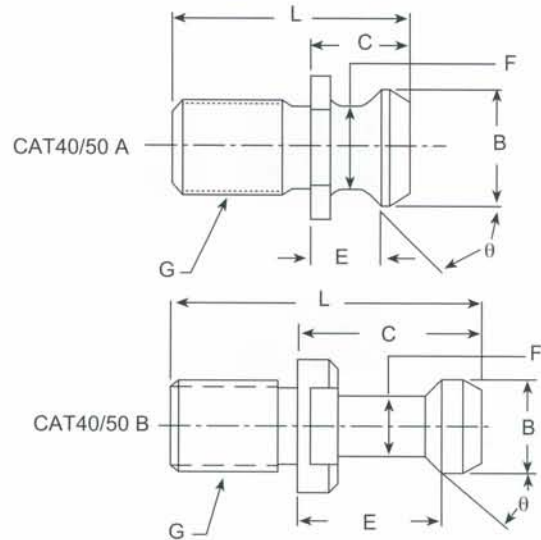


Model No.	Type	l	d	d1	d2	d3	t	G
ISO7388/2A-P16D	A	54	19	14	17	23	7.5	M16
ISO7388/2A-P24D	A	74	28	21	25	36	11.5	M24
ISO7388/2B-P16D	B	44.5	18.9	12.9	17	22.5	7.5	M16
ISO7388/2B-P24D	B	65.5	29.1	19.6	25	36	11.5	M24



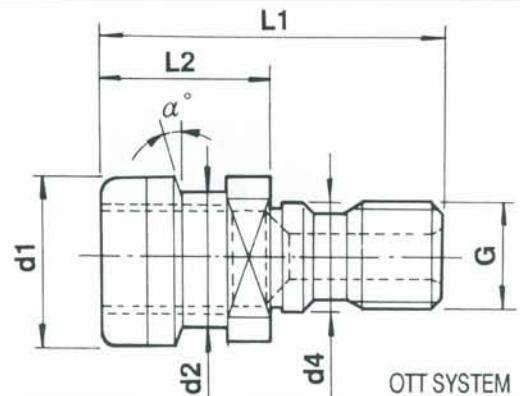
PULL STUD-CAT40/CAT50

PULL STUD-CAT40/CAT50-拉桿/拉頭



Model No.	Type	G	θ	L	B	C	E	F
CAT40-θ-A	A	5/8"-11	45	1.5	0.740	0.640	0.440	0.490
CAT50-θ-A	A	1"-8	45	2.30	1.140	1.000	0.700	0.820
CAT40-θ-B	B	5/8"-11	45/60/90	2.13	0.590	1.270	0.990	0.393
CAT40-θ-B	B	1"-8	45/60/90	3.07	0.906	1.772	1.378	0.669

PULL STUD-OTT-拉桿



Model No.	G	d1	d2	d4	L1	L2	a
OTT-P16D	M16	25.3	21.1	17	55.95	27.95	15

ARTISTIC DRILL RE-SHARPENING MACHINE-精巧鑽頭研磨機



Features:

- Only three steps.
- Using a taper diamond wheel for grinding, no need for re-trim.
- Fast and accurate sharpening.
- Grinding range: 3.0mm-13.0mm(dia)

特點：

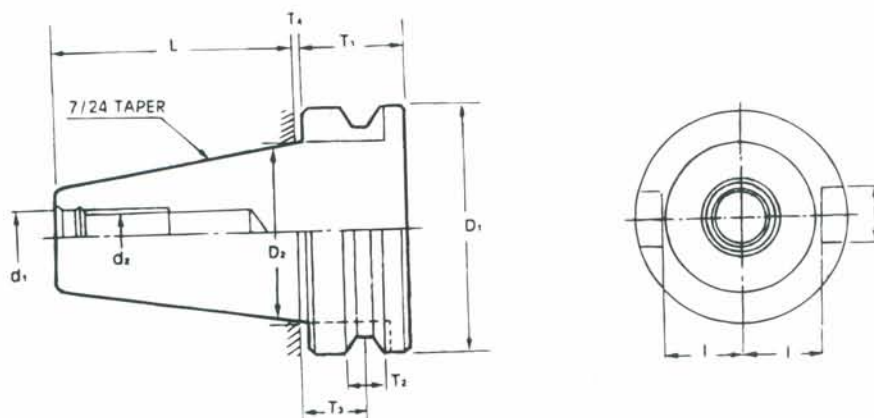
- 鑽頭一次夾持，可將鑽刃鋒、鑽腹、餘隙角(後斜角)中心靜點，精準的一次磨好鑽頭完成。
- 鑽頭研磨操作容易又安全，無危險性。

SPECIFICATION (規格尺寸)

MODEL 型 號	GRINDING RANGE 鑽頭直徑	FRONT END ARGLE 先端角	POWDER SUPPLY 電源	MOTOR SPEED 回轉數	WEIGHT 重量	DIMENSIONS 外型寸法
YD-313	Ø2.0~13.0	90°~135°	AC-110/220單項	5000RPM	AC110 8kg/SET AC220 10kg/SET	370WX300DX200H m/m
YD-1226	Ø12~26	90°~145°	AC-110/220單項	3600RPM	20kg/SET	430WX300DX250H m/m
YD-0326	Ø5~26	90°~145°	AC-110/220單項	3600RPM	20kg/SET	430WX300DX250H m/m



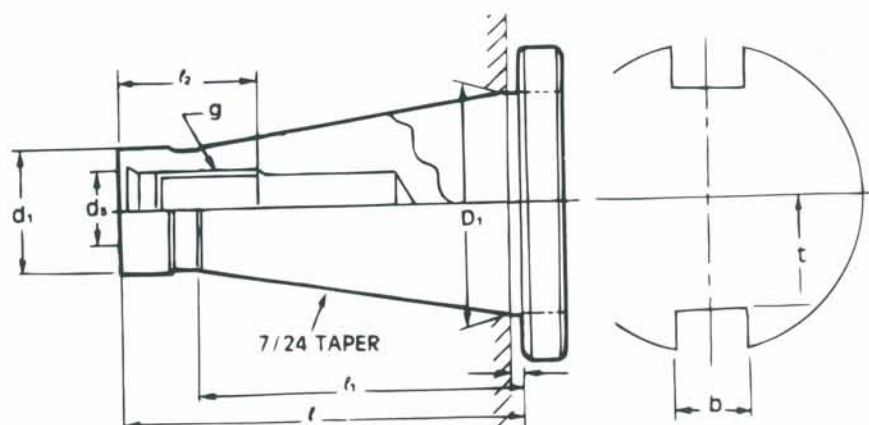
BT SHANK



(Unit: mm)

Shank Size	D1	D2	d1	d2	L	T1	T2	T3	T4	b	l
BT30	46	31.75	12.5	M12	48.4	20	8	13.6	2	16.1	16.3
BT40	63	44.45	17	M16	65.4	25	10	16.6	2	16.1	22.6
BT50	100	69.85	25	M24	101.8	35	15	23.2	3	25.7	35.4

NT SHANK



(Unit: mm)

Shank Size	D1	d1	f1	f2	g	l	t	b	g	f2	d5
NT30	31.75	17.4	70	50	1.6	16.1	16.2	M12 /1/2"-12	24	12.5	
NT40	44.45	25.3	95	67	1.6	16.1	22.5	M16/ 5/8"-11	30	17	
NT50	69.85	39.6	130	105	3.2	25.71	35.3	M24 /1"-8	45	25	

(AD Type)
FORM AD-Fig.1
CENTRE THROUGH COOLANT TYPE

(B Type)
FORM B-Fig.2
FLANGE THROUGH COOLANT TYPE

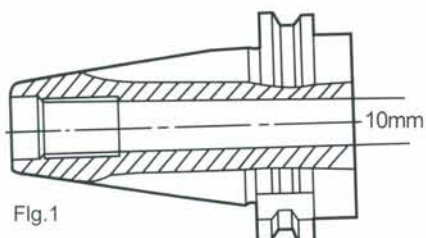


Fig.1

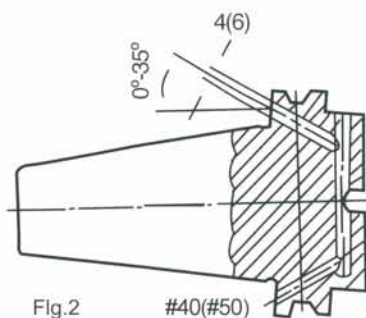
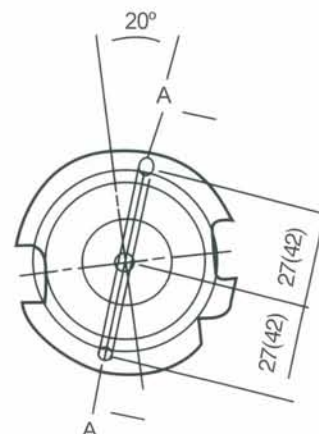
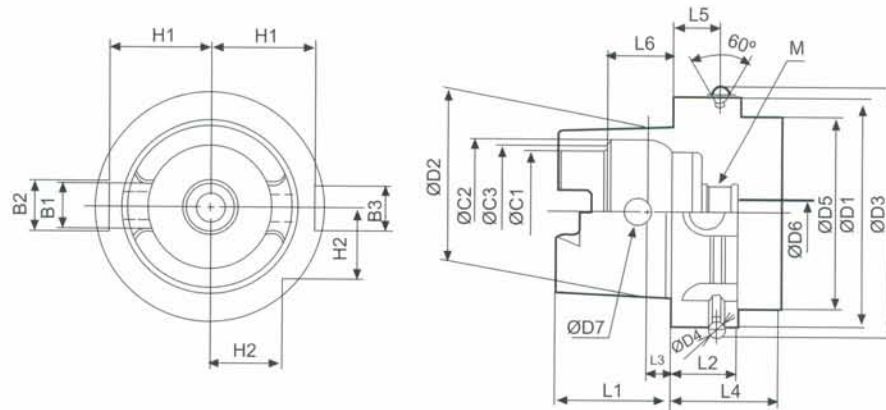


Fig.2





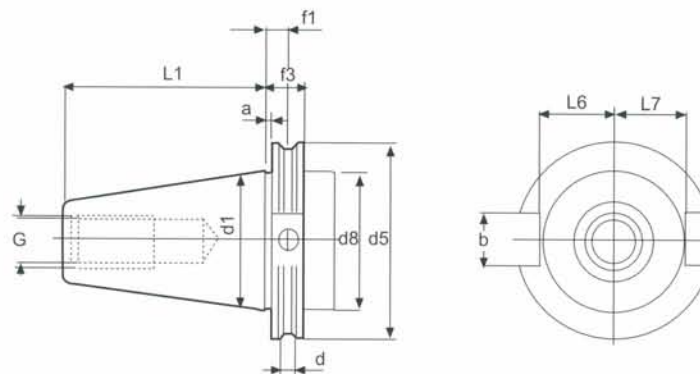
HSKA SHANK



Shank Size	ØD1	ØD2	ØD3	ØD4	ØD5(Max.)	ØD6(Max.)	L1	L2	L3	L4(Min.)	L5
HSKA40	40	30	45	4	34	5	20	20	4	35	16
HSKA50	50	38	59.3	7	42	6.8	25	26	5	42	18
HSKA63	63	48	72.3	7	53	8.4	32	26	6.3	42	18
HSKA100	100	75	109.75	7	85	12	50	29	10	45	20

Shank Size	L6	ØC1	ØC2	ØC3	B1	B2	B3	H1	H2	M
HSKA40	11.42	21	25.5	23	8.05	11	9	17	12	M12x1.0
HSKA50	14.13	26	32	29	10.54	14	12	21	15.5	M16x1.0
HSKA63	18.13	34	40	37	12.54	18	16	26.5	20	M18x1.0
HSKA100	28.56	53	63	58	20.02	22	20	44	31.5	M24x1.5

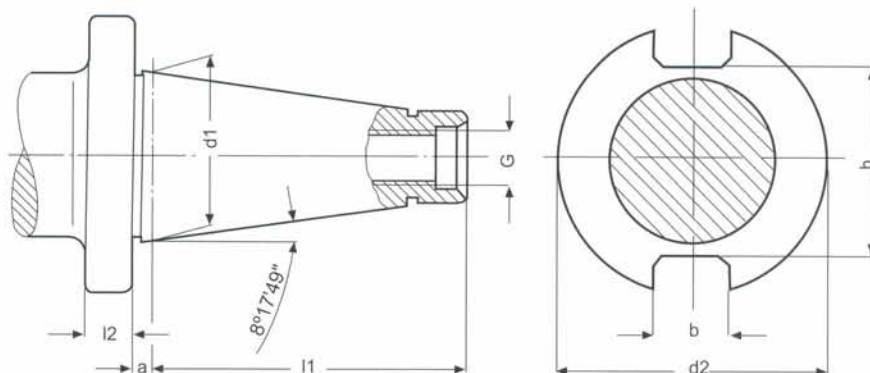
CAT SHANK



Shank Size	b	d	d1	G	d5	d8	f1	f3	L1	L6	L7	a
CAT30	.645	.2756	1.250	1/2"-12	1.812	1.250	.4375	.750	1.875	.735	.640	.125
CAT40	.645	.2756	1.750	5/8"-11	2.500	1.750	.4375	.750	2.637	.985	.890	.125
CAT50	1.02	.2756	2.750	1"-8	3.875	2.750	.4375	.750	4.000	1.485	1.390	.125

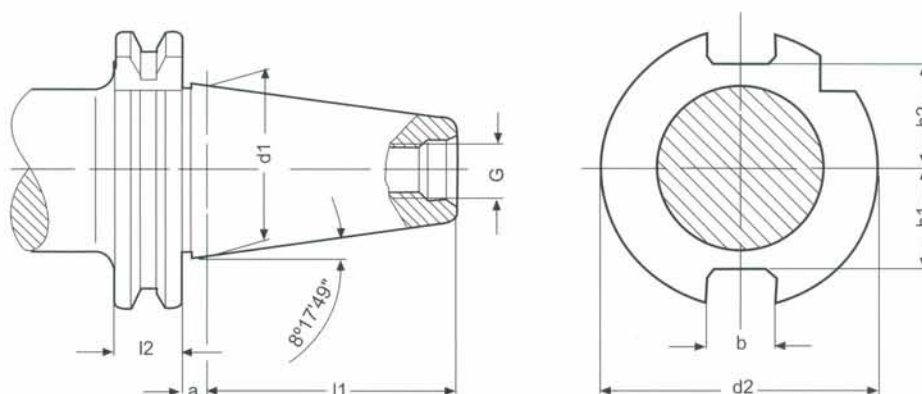


SK-DIN2080 SHANK



Shank Size	d1	l1	a	G	d2	l2	b	h
SK30	31.75	68.4	1.6	M12	50	8	16.1	32.4
SK40	44.45	93.4	1.6	M16	63	10	16.1	45
SK50	69.85	126.8	3.2	M24	97.50	12	25.7	70.6

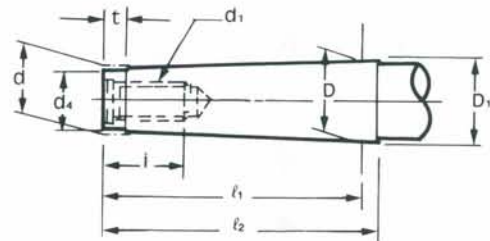
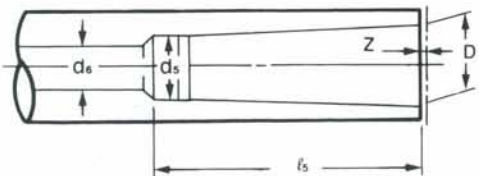
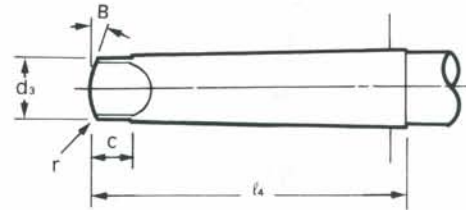
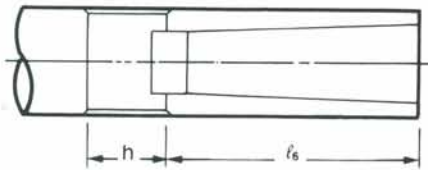
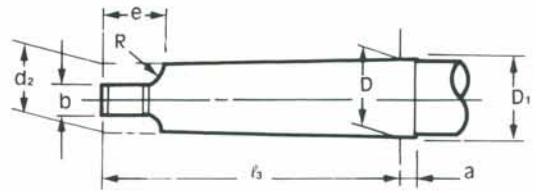
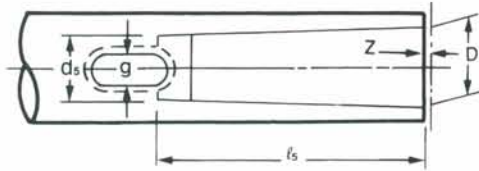
SK-DIN69871A SHANK



Shank Size	l1	l2	a	d1	G	d2	b	h1	h2
SK30	47.8	15.9	3.2	31.75	M12	50	16.1	16.4	19
SK40	68.4	15.9	3.2	44.45	M16	63.55	16.1	22.8	25
SK50	101.75	15.9	3.2	69.85	M24	97.50	25.7	35.5	37.7



MORSE TAPER DIMENSIONS:



Code Number		Morse Taper							
		0	1	2	3	4	5	6	7
Size	Taper	1:19.212 =0.05205	1:20.047 =0.04988	1:20.020 =0.04995	1:19.922 =0.05020	1:19.254 =0.05194	1:19.002 =0.05263	1:19.180 =0.05214	1:19.231 =0.05200
Outside Taper	D	9.045	12.065	17.780	23.825	31.267	44.399	63.348	83.058
	a	3	3.5	5	5	6.5	6.5	8	10
	D1	9.2	12.2	18	24.1	31.6	44.7	63.8	83.6
	d	6.4	9.4	14.6	19.8	25.9	37.6	53.9	70.0
	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
	l1 MAX.	50	53.5	64	81	102.5	129.5	182	250
	l2 MAX.	53	57	69	86	109	136	190	260
	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
	b h13	3.9	5.2	6.3	7.9	11.9	15.9	19	28.5
	C	6.5	8.5	10	13	16	19	27	35
	e MAX.	10.5	13.5	16	20	24	29	40	54
	i MIN.	--	16	24	28	32	40	50	80
	R MAX.	4	5	6	7	8	10	13	19
	r	1	1.2	1.6	2	2.5	3	4	5
	t MAX.	4	5	5	7	9	9	12	185
Inside Taper	d5 H11	6.7	9.7	14.9	20.2	26.5	38.2	54.6	71.1
	d6	--	7	11.5	14	18	23	27	30
	l5 MIN.	52	56	67	84	107	135	188	258
	l6	49	52	62	78	98	125	177	241
	g A13	41	5.4	6.6	8.2	12.2	16.2	19.3	28.8
	h	15	19	22	27	32	38	47	69
	z	1	1	1	1	1.5	15	2	2

*PLEASE NOTE THE DRAWING/BOLT OF MT5 TAPER FROM ANN WAY IS M24 X 3.0P

ABT 兩面拘束刀柄系統 PAT. (ABT DOUBLE CONTACT TOOLING SYSTEM PAT.)

TAPER CONTACT 錐度貼緊

FLANGE CONTACT 平面貼緊

A groove-to reduce difficulty when to take off the tool holder from spindle.

Future

- TAPER & FLANGE CONTACT : To improve the working for High Precision ! High Rigidity ! High Efficiency !
- Improving and extending the cutting tool lifetime.
- Max Speed : 40,000 r.p.m G2.5
- When ordering , please refer to MAS403 BT SERIES. EX: *ABT40 ASG20-75.

特色

- CNC主軸與刀柄的錐度面及端面同時緊貼，能實現高精度、高剛性及高效率之加工。
- 動平衡可達 40000 r.p.m G2.5
- 訂購時請參閱MAS403 BT系列。EX→ABT40 ASG20-75.

