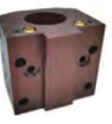


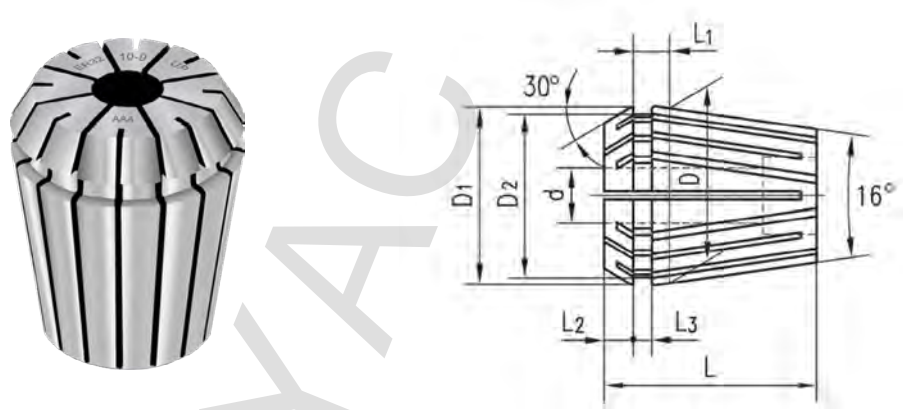
ER 弹簧筒夹 ER Collets  ○详细请参照第 1 页	不锈钢筒夹 Stainless Steel ER Collets  ○详细请参照第 2 页	ERG 型攻丝筒夹 ERG Tap Collets  ○详细请参照第 7 页	ERC 止水筒夹 ERC/C Collets (oil hole type)  ○详细请参照第 8 页	HSK-A-C 强力刀柄 HSK-A-C Power Milling Chucks  ○详细请参照第 33 页	HSK-A-SDC 后拉刀柄 HSK-A-SDC Back Pull Tool Holders  ○详细请参照第 34 页	HSK-SK 不锈钢刀柄 Stainless Steel Tool Holder  ○详细请参照第 35 页	HSK-E-GSK 数控刀柄 HSK-E-GSK Tool Holders  ○详细请参照第 35 页
EOC/OZ 筒夹 EOC/OZ Collets  ○详细请参照第 8 页	SK 筒夹 SK Collets  ○详细请参照第 9 页	SDC 筒夹 SDC Collets  ○详细请参照第 9 页	ERG 型攻丝筒夹 ERG Tap Collets  ○详细请参照第 10 页	HSK-PHC 液压刀柄 HSK-PHC Hydraulic Tool Holders  ○详细请参照第 36 页	HSK-SF 热缩刀柄 HSK-SF Shrink Tool Holders  ○详细请参照第 37 页	浮动铰刀柄 Lateral floating reaming tool holders  ○详细请参照第 38 页	BT-ER 高速刀柄 BT - ER Tool Holders  ○详细请参照第 39 页
直柄筒夹 Straight Collets  ○详细请参照第 11 页	5C 弹簧筒夹 5C Collets  ○详细请参照第 11 页	R8 弹簧筒夹 R8 Collets  ○详细请参照第 12 页	前推式筒夹 Clamping Collets  ○详细请参照第 12 页	BT-ER 套装铰夹头 BT-ER Collets Chuck Sets  ○详细请参照第 40 页	BT 高精度液压刀柄 BT High Precision Hydraulic Tool Holders  ○详细请参照第 41 页	液压一体式钻夹头 Hydraulic integrated drill chuck  ○详细请参照第 42 页	BT-GSK 无风阻刀柄 BT-GSK High Speed Collet Chucks  ○详细请参照第 42 页
ER 筒夹套装 ER Collets Set  ○详细请参照第 5 页	扳手配套 Wrench-matching  ○详细请参照第 13 页	螺母系列 Nut Series  ○详细请参照第 14 页	拉钉系列 Pull Stud Series  ○详细请参照第 15 页	BT-SDC 后拉刀柄 BT-SDC Collet Chuck  ○详细请参照第 43 页	BT-FMB 面铣刀柄 BT-FMB Face Milling Tool Holder  ○详细请参照第 44 页	BT-SLN 侧固刀柄 BT-SLN Side Lock End Mill Arbors  ○详细请参照第 44 页	BT-SF 热缩刀柄 BT-SF Shrink Tool Holders  ○详细请参照第 45 页
AG90- 角度头 AG90-CNC Angle Heads  ○详细请参照第 21 页	AGMU- 角度头 AGMU-CNC Angle Heads  ○详细请参照第 23 页	双向角度头 CNC Angle Heads  ○详细请参照第 24 页	径向外径右手型固定刀座 Radial outer diameter right-hand fixed tool holder  ○详细请参照第 25 页	BT 锁牙刀柄 BT Screwed Tool Holders  ○详细请参照第 46 页	BT- 强力刀柄 BT Powerful Milling Chucks  ○详细请参照第 47 页	强力刀柄套装 Straight Collets Chucks Sets  ○详细请参照第 48 页	BT-CEM 混合插入式铣刀杆 BT-CEM Combine Shell End Mill Arbors  ○详细请参照第 48 页
内径 U Drill 固定刀座 Internal diameter U Drill fixed tool holder  ○详细请参照第 26 页	主轴拉力计 Spindle force gauge  ○详细请参照第 28 页	HSK-A-ER 数控刀柄 HSK-A-ER Tool Holders  ○详细请参照第 29 页	HSK-F-ER 数控刀柄 HSK-F-ER Tool Holders  ○详细请参照第 30 页	BBT-ER 高速刀柄 BBT - ER Tool Holders  ○详细请参照第 49 页	BBT-FMB 面铣刀柄 BBT-FMB Tool Holders  ○详细请参照第 50 页	BT & BBT-ER 不锈钢刀柄 BT & BBT-ER Stainless Steel Tool Holder  ○详细请参照第 51 页	BT&BBT-SK 不锈钢刀柄 BT&BBT-SK Stainless Steel Tool Holder  ○详细请参照第 52 页
ER 弹簧筒夹 ER Collets  ○详细请参照第 30 页	HSK-A-GER 无风阻刀柄 HSK-A-GER Airless Tool Holders  ○详细请参照第 31 页	HSK-A-SLN 数控刀柄 HSK-A-SLN Tool Holders  ○详细请参照第 32 页	HSK-A-FMB 数控刀柄 HSK-A-FMB Tool Holders  ○详细请参照第 33 页	BBT 高速刀柄 BBT x ER High-speed & Fine-balanced Tool Holders  ○详细请参照第 53 页	BBT-SK 双面贴合刀柄 BBT double-sided laminating SK Holders  ○详细请参照第 54 页	BT 油路刀柄 BT Side Lock Oil Hole Holders  ○详细请参照第 55 页	MT 油路刀柄 MT Side Lock Oil Hole Holders  ○详细请参照第 55 页

BT-OMS 油路刀柄 BT-OMS/ Side Oil Hole Holders  ○详细请参照第 56 页	MT-OMS 刀柄 MT/OMS Side Lock Oil Hole Holders  ○详细请参照第 56 页	BT/OSL 油路刀柄 BT/OSL oil path tool holder  ○详细请参照第 57 页	OSL 油路刀套 OSL Sleeves  ○详细请参照第 57 页	光电寻边器 Edge Finders With Sound & Lamp  ○详细请参照第 75 页	寻边器 Edge Finders 普通有磁 /Ordinary magnetic  ○详细请参照第 76 页	寻边器 Edge Finders 黄钛无磁 /Yellow Titanium non-magnetic  ○详细请参照第 76 页	寻边器 Edge Finders 陶瓷直身式, Ceramic straight body  ○详细请参照第 76 页
OMS 转换套 OMS Sleeves With Side Solid Oil  ○详细请参照第 58 页	偏心套 Eccentric sleeve  ○详细请参照第 58 页	CAT 高速刀柄 CAT Type High-speed & Fine-balanced Tool Holders  ○详细请参照第 59 页	CAT 套式铣刀杆 CAT Shell End Mill Arbors  ○详细请参照第 60 页	3D 寻边器 3D Edge Finder  ○详细请参照第 76 页	辅助刀座 Auxiliary Tool Holder for CNC Lathe  ○详细请参照第 77 页	抱紧式刀座 The auxiliary tool rest of the ring type  ○详细请参照第 78 页	刀塔刀座 CNC lathe turret tool rests  ○详细请参照第 79 页
CAT 侧固式立铣刀杆 CAT Side Lock End Mill Arbors  ○详细请参照第 60 页	NT-ER 铣夹头刀柄 NT-ER Collets Holders  ○详细请参照第 61 页	MT-ER 刀柄 MT-ER Collets Holders  ○详细请参照第 62 页	NT-ER 套装铣夹头 NT-ER Collets Chuck Sets  ○详细请参照第 63 页	刀库导套 Tool Holder Sleeves  ○详细请参照第 79 页	BMT 刀座 BMT lathe tool rest  ○详细请参照第 80 页	BMT 刀座 BMT lathe tool rest  ○详细请参照第 80 页	BMT 刀座 BMT lathe tool rest  ○详细请参照第 80 页
MT-ER 套装铣夹头 MT-ER Collets Chuck Sets  ○详细请参照第 64 页	OZ 筒夹套装 OZ Collets Sets  ○详细请参照第 66 页	BT-OZ 铣刀柄 BT-OZ Collets Holders  ○详细请参照第 65 页	NT-OZ 铣刀柄 NT-OZ Collets Holders  ○详细请参照第 65 页	延伸刀座 Turning tool extends tool rest  ○详细请参照第 81 页	L 型排刀开口刀座 L- type row cutter with open socket  ○详细请参照第 81 页	车床四方刀杆 Lathe Quartet Tool holder  ○详细请参照第 81 页	车刀压紧块 Turning tool pressing block  ○详细请参照第 82 页
MT-OZ 铣刀柄 MT-OZ Collets Holders  ○详细请参照第 66 页	R8-OZ 铣刀柄 R8-OZ Collets Holders  ○详细请参照第 66 页	R8-FMB 铣刀柄 R8-FMB Milling Tool Holder  ○详细请参照第 67 页	FMB 铣削延长适配器 FMB Milling Extension Adaptor  ○详细请参照第 67 页	L 型排刀内孔刀座 L- type row knife hole holder  ○详细请参照第 82 页	双工位刀座 Double station auxiliary tool rest  ○详细请参照第 82 页	直柄侧销式 ER 铣床夹头 Side Lock ER Collets Straight Shank  ○详细请参照第 83 页	拉料器 Lathes drawing machine  ○详细请参照第 84 页
ISO 无键槽高速刀柄 ISO High Speed Collet Chuck without Keyway  ○详细请参照第 68 页	NBT30 无键槽刀柄 NBT30 collet Chucks without keyway  ○详细请参照第 68 页	NT 侧固式铣刀杆 NT Side Lock End Mill Arbors  ○详细请参照第 69 页	NT 套式铣刀杆 NT Shell End Mill Arbors  ○详细请参照第 69 页	ER 夹头座 ER Chuck for Lathe Machine  ○详细请参照第 84 页	RAP-75° 壳型铣刀盘 RAP-75° Face Mills  ○详细请参照第 85 页	EMR 通用型圆鼻铣刀盘 EMR Round Dowel Face Mills  ○详细请参照第 85 页	90°台肩壳型铣刀盘 90° Shoulder Face Mills  ○详细请参照第 86 页
NT 混合插入式铣刀杆 NT Combine Shell End Mill Arbors  ○详细请参照第 70 页	MT 侧固式铣刀杆 MT Side Lock End Mill Arbors  ○详细请参照第 70 页	标准刀具座 / 刀套 Standard tool holder/holder  ○详细请参照第 71 页	工具车 Tool Trolley  ○详细请参照第 72 页	KM-45°壳型铣刀盘 KM-45° Face Mills  ○详细请参照第 86 页	F1 型粗镗头 F1 Rough Boring Heads  ○详细请参照第 87 页	F1 型镗刀 F1 Rough Boring Cutters  ○详细请参照第 87 页	硬质合金镗杆 Boring cutters with replaceable inserts  ○详细请参照第 87 页

F1 型镗头连接柄 F1 Rough Boring Heads Shanks  ○详细请参照第 88 页	F1 镗头套装 F1 Rough Boring Heads  ○详细请参照第 88 页	RBA 可调式双刃粗镗头 RBA Indexable Twin-bit Rough Boring Heads  ○详细请参照第 89 页	RBA 可调式双刃粗镗头 RBA Indexable Twin-bit Rough Boring Heads  ○详细请参照第 89 页	CAT 一体式钻夹头 CAT Integrated keyless Drill Chucks  ○详细请参照第 112 页	(重型 Heavy Duty) 扳手式锥孔钻夹头 Key-Type Drill Chucks With Taper Fitting  ○详细请参照第 113 页	(轻型 Light Duty) 扳手式锥孔钻夹头 Key-Type Drill Chucks With Taper Fitting  ○详细请参照第 113 页	扳手型螺纹孔钻夹头 Key-Type Drill Chucks With Thread Mounted  ○详细请参照第 114 页
NBJ16 微调精镗刀 (套装) NBJ16 Micro-Finishing Boring Kit  ○详细请参照第 90 页	不锈钢 CBA 精镗 CBA Finishing Boring Head  ○详细请参照第 91 页	CBA 刀片座 CBA Insert Holder  ○详细请参照第 92 页	NBH2084 微调精镗头套装 NBH2084 Micro Boring Head Sets  ○详细请参照第 93 页	手紧式钻夹头 Keyless Hand-tightening Drill Chucks  ○详细请参照第 114 页	不锈钢钻夹头 Stainless Steel Drill Chucks  ○详细请参照第 115 页	扁尾式接杆 Drill Chuck Arbors With Tang Form  ○详细请参照第 115 页	后拉式接杆 Drill Chuck Arbors with Draw Bar  ○详细请参照第 116 页
精镗刀柄 LBK 系列 LBK Type Boring Head Shanks  ○详细请参照第 97 页	TC 攻丝夹头 TC Tapping Collets  ○详细请参照第 99 页	GT 攻丝夹头 GT Tapping Collets  ○详细请参照第 100 页	攻丝夹头套装 Tapping Collets Chuck Sets  ○详细请参照第 101 页	R8 钻接杆 R8 Drill Chuck Arbors  ○详细请参照第 116 页	BT 钻夹头接杆 BT Drill Chuck Arbors  ○详细请参照第 117 页	NT 钻夹头接杆 NT Drill Chuck Arbors  ○详细请参照第 117 页	MT 变径套 MT Drill Sleeves  ○详细请参照第 118 页
BT 快换丝攻夹头柄体 BT Quick Change Tapping Chuck Adapter  ○详细请参照第 101 页	MT 快换丝攻夹头柄体 Morse Taper Quick Change Tapping Chuck Adapters  ○详细请参照第 102 页	直柄侧锁式 ER 铣床夹头 Side Lock ER Collets Straight Shank  ○详细请参照第 102 页	TC820-WF 攻丝刀柄 TC820-WF Tapping Holders  ○详细请参照第 103 页	加长变径套 Extension Drill Sleeves  ○详细请参照第 118 页	BTxMT 数控变径套 BT x MT Adapt Sleeves  ○详细请参照第 119 页	NT-MT 变径套 NT x MT Adapt Sleeves  ○详细请参照第 120 页	拆卸铁 Drill Drafts  ○详细请参照第 120 页
伸缩缓冲型攻丝刀柄 (BT-TER 型) Telescopic buffer type tapping tool holder (BT-TER type)  ○详细请参照第 103 页	伸缩缓冲型攻丝刀柄 (直柄侧锁式-TER 型) Telescopic buffer type tapping tool holder (straight shank side-lock type - TER type)  ○详细请参照第 104 页	车笔刀架 Pencil Centers  ○详细请参照第 104 页	TC 系列一体式多用攻丝夹头 TC-series one-piece multi-purpose tapping chuck  ○详细请参照第 105 页	后拉式延长杆 Pull Back Extension Rod  ○详细请参照第 121 页	侧固式小径延长杆 Straight Small Shank Holders  ○详细请参照第 122 页	ER 直柄延长杆 ER Collets Extension Bars  ○详细请参照第 123 页	高精密回转顶尖 High Precision High Speed Rotary Center  ○详细请参照第 124 页
J46 型可逆攻丝夹头 Reversible Tapping Chuck  ○详细请参照第 105 页	柔性夹头: RUBBER FLEX COLLETS for reversible tapping chuck  ○详细请参照第 106 页	电动攻丝机 Electric Tapping Machine  ○详细请参照第 107 页	锥孔自紧式钻夹头 Taper-fitting Keyless Drill Chucks  ○详细请参照第 109 页	高速黑款回转顶尖 High Speed With Water-proof Live Centers  ○详细请参照第 125 页	新款数控回转顶尖 New Type Live Centers For CNC  ○详细请参照第 125 页	DM 精密轻型回转顶尖 Precision Light-Duty Live Centers (DM type)  ○详细请参照第 125 页	中型回转顶尖 Medium Duty Live Centers  ○详细请参照第 126 页
螺纹孔自紧式钻夹头 Thread Mounted Keyless Drill Chucks  ○详细请参照第 110 页	BT 一体式钻夹头 BT Integrated Drill Chucks  ○详细请参照第 111 页	莫氏、直柄、R8 一体式自紧钻夹头 Integrated Keyless Drill Chucks With Morse Taper, Straight Or R8 Shanks  ○详细请参照第 111 页	SK 一体式钻夹头 SK Integrated keyless Drill Chucks  ○详细请参照第 112 页	数控回转顶尖 CNC Live Centers  ○详细请参照第 126 页	重型回转顶尖 Heavy Duty Live Centers  ○详细请参照第 126 页	重型回转顶尖 Precision Heavy Duty Live Centers  ○详细请参照第 127 页	伞型回转顶尖 Bull Nose Live Centers  ○详细请参照第 129 页

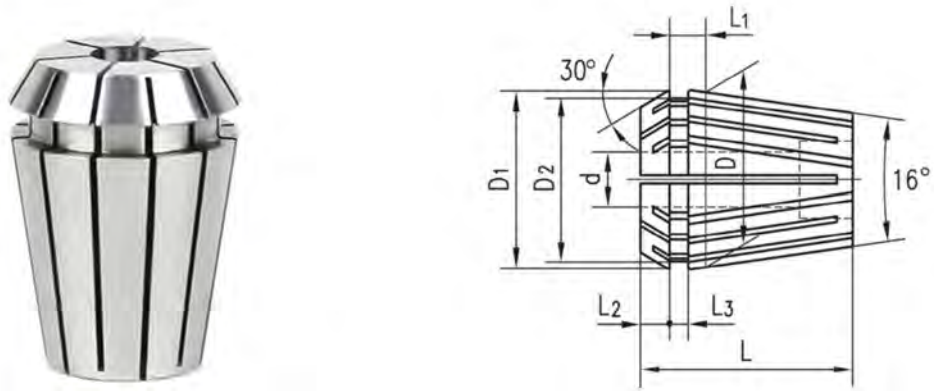
硬质合金固定顶尖 Carbide Dead Centers  ○详细请参照第 127 页	木工顶尖 Live Centers For Wood-working Machines  ○详细请参照第 128 页	插入式回转顶尖 CNC Inter-Changable Tips Live Center  ○详细请参照第 129 页	木工顶尖套装 Live Centers Sets for Wood-working Machines  ○详细请参照第 129 页	组合压板 Steel Clamping Kits  ○详细请参照第 148 页	组合压板 Steel Clamping Kits  ○详细请参照第 148 页	木工夹具组 Mounting Kits For Wood-working Machines  ○详细请参照第 149 页	木工卡盘 Wood-working Scroll Chucks  ○详细请参照第 149 页
K11 型 三爪自定心卡盘 K11 Type Three-jaw self-centering chuck  ○详细请参照第 130 页	德标三爪自定心卡盘 German Standard 3-Jaw Self-Centering Chucks  ○详细请参照第 131 页	俄标三爪自定心卡盘 Russia Standard 3-Jaw Self-Centering Chucks  ○详细请参照第 132 页	K12 四爪自定心卡盘 K12 Four-Jaw Self-Centring Chucks  ○详细请参照第 133 页	滚花刀 Hobbing cutter  ○详细请参照第 149 页	J7316A 铣夹头套装 Drill Chucks with Connecting Arbors  ○详细请参照第 150 页	J7316B 铣夹头套装 J7316B Collets & Chuck Sets  ○详细请参照第 150 页	QGG 精密平口钳 QGG Precision Tool Vices  ○详细请参照第 151 页
K72 型四爪自定心卡盘 K72 Four-Jaw Independent Chucks  ○详细请参照第 134 页	K13 大直径自定心卡盘 K13 Series Large Diameter Self-centering Chucks  ○详细请参照第 134 页	K78 大直径自定心卡盘 K78 Series Large Diameter Self-centering Chucks  ○详细请参照第 134 页	卡盘卡爪 chuck jaws  ○详细请参照第 135 页	QKG 精密工具平口钳 QKG Precision Tool Vices  ○详细请参照第 151 页	GT 精密组合平口钳 GT Precision Moldular Vices  ○详细请参照第 151 页	QHK 型可倾平口钳 Live Centers for Wood-working Machines  ○详细请参照第 152 页	角固式精密平口钳 QB Planning Machine Vices(QB=Q13)  ○详细请参照第 152 页
三爪中空液压卡盘 Three-Jaw Through-hole Hydraulmatic Chucks  ○详细请参照第 137 页	三爪中实液压卡盘 Three-Jaw Closed Center Hydraulmatic Chucks  ○详细请参照第 138 页	四爪中空液压卡盘 Four-Jaw Through-hole Hydraulmatic Chucks  ○详细请参照第 139 页	四爪中实液压卡盘 Four-Jaw Closed Center Hydraulic Chucks  ○详细请参照第 140 页	Q93 型双向角度压紧平口钳 Q93 Double-action Angle Tight Vices  ○详细请参照第 152 页	铣床平口钳 QH Milling Machine Vices (QH=Q12)  ○详细请参照第 153 页	刨床平口钳 QB Planning Machine Vices(QB=Q13)  ○详细请参照第 153 页	角固式平口钳 QM16 Accu-lock Machine Vices  ○详细请参照第 154 页
机械带表 Z 轴设定仪 Z-Axis Scale Zero Setters with Magnetic  ○详细请参照第 141 页	光电式 Z 轴设定仪 Z-Axis Scale Zero Setters with Electro-optical  ○详细请参照第 141 页	数显式 Z 轴设定仪 Digital Z-Axis Scale Zero Setters  ○详细请参照第 141 页	机械带表 Z 轴设定仪 Z-axis Scale Zero Setters with Megnetic meter  ○详细请参照第 142 页	角固式精密平口钳 QB Planning Machine Vices(QB=Q13)  ○详细请参照第 154 页	内藏式油压虎钳 Built-in Hydraulic Vises  ○详细请参照第 155 页	铣床走刀器 Milling Machine Tool Feeder  ○详细请参照第 156 页	全自动磨刀机 Automatic Sharpener  ○详细请参照第 156 页
BT 主轴检测棒 BT Spindle Test Arbor  ○详细请参照第 145 页	HSK 检测棒 HSK Spindle Test Arbor  ○详细请参照第 145 页	BT 系列加硬锁刀座 BT Series Harden Cocking Devices  ○详细请参照第 146 页	全铝加硬锁刀座 BT Series Aluminum Harden Locking Devices  ○详细请参照第 146 页	83 重型活动带砧式台钳 83 Type Heavy Duty Bench Vices With Anvil Swivel Base  ○详细请参照第 157 页	83 重型固定带砧式台钳 83 Type Heavy Duty Bench Vices With Anvil Stationary Base  ○详细请参照第 157 页	83 重型活动无砧式台钳 83 Type Heavy Duty Bench Vices Without Anvil Swivel Base  ○详细请参照第 157 页	83 重型固定无砧式台钳 83 Type Heavy Duty Bench Vices Without Anvil Stationary Base  ○详细请参照第 157 页
轴承式锁刀座 Locking Devices With Bearings  ○详细请参照第 146 页	仰式锁刀座 Tool Holder Tightening Fixture  ○详细请参照第 146 页	组合压板 Steel Clamping Kits  ○详细请参照第 147 页	组合压板 Steel Clamping Kits  ○详细请参照第 147 页	89 轻型活动带砧式台钳 89 Type Light Duty Bench Vices With Anvil Swiveak Base  ○详细请参照第 158 页	89 轻型固定带砧式台钳 89 Type Light Duty Bench Vices With Anvil Stationary Base  ○详细请参照第 158 页	89 轻型活动无砧式台钳 89 Type Light Duty Bench Vices Without Anvil Stationary Base  ○详细请参照第 158 页	89 轻型固定无砧式台钳 89 Type Light Duty Bench Vices Without Anvil Stationary Base  ○详细请参照第 158 页

96 超轻型活动带砧台钳 96 Type Super Light Duty Bench Vices With Anvil Swivel Base  ○详细请参照第 159 页	93 美式活动带砧台钳 93 American Type Bench Vices With Anvil Swivel Base  ○详细请参照第 159 页	95 美式活动带砧台钳 95 American Type Bench Vices With Anvil Swivel Base  ○详细请参照第 159 页	木工顶尖套装 Live Centers Sets for Wood-working Machines  ○详细请参照第 159 页	FK15 系列数控分度头 FK15 Series CNC Dividing Head  ○详细请参照第 171 页	台湾款分度头 Semi-Universal Dividing Heads  ○详细请参照第 173 页	蜂巢板 QB Planning Machine Vices(QB=Q13)  ○详细请参照第 173 页	万能分度头 Universal Dividing Heads  ○详细请参照第 174 页
Q19 德式钻床平口钳 Q19 German Type Drilling Machine Vices  ○详细请参照第 160 页	Q19 丝杠缩入式平口钳 Q19E Guild-Screw Leading-in Drilling Vices  ○详细请参照第 160 页	Q19A 美式钻床平口钳 Q19A American Type Drilling Machine Vices  ○详细请参照第 160 页	SY 手板压力机 SY Arbor Presses  ○详细请参照第 160 页	F2 型立卧等分分度头 F2 Type Direct Dividing Heads  ○详细请参照第 175 页	F3 型立卧等分分度头 F3 Type Direct Dividing Heads  ○详细请参照第 176 页	立卧回转工作台 Vertical/Horizontal Rotary Tables  ○详细请参照第 177 页	可倾回转工作台 Tilting Rotary Tables  ○详细请参照第 178 页
PB150 型平行块 PB150 Parallel Block  ○详细请参照第 161 页	PB151 型平行块 PB151 Parallel Block  ○详细请参照第 161 页	PB153 型平行块 PB153 Parallel Block  ○详细请参照第 162 页	PB154 型平行块 PB154 Parallel Block  ○详细请参照第 162 页	卧式回转工作台 TS Horizontal Rotary Tables  ○详细请参照第 179 页	镀锌磁座 (银色) Galvanized magnetic base (silver)  ○详细请参照第 180 页	冷却水管 Cooling water pipe  ○详细请参照第 181 页	分叉水管系列 Bifurcated water pipe series  ○详细请参照第 184 页
PB155 型平行块 PB155 Parallel Block  ○详细请参照第 162 页	平行垫块 1×2×3"BLOCKS Parallel Blocks  ○详细请参照第 163 页	平行垫块 1×2×3"BLOCKS Parallel Blocks  ○详细请参照第 163 页	平行垫块 1×2×3"BLOCKS Parallel Blocks  ○详细请参照第 163 页				
平行垫块 1×2×3"BLOCKS Parallel Blocks  ○详细请参照第 164 页	平行垫块 2×3×4"BLOCKS Parallel Blocks  ○详细请参照第 164 页	平行垫块 2×4×6"BLOCKS Parallel Blocks  ○详细请参照第 164 页	公制垫块 Metric Blocks  ○详细请参照第 165 页				
圆形永磁细目吸盘 Circular Permanent Magnetic Chuck  ○详细请参照第 165 页	XM91 矩形永磁吸盘 XM91 Rectangular Permanent Magnetic Chuck  ○详细请参照第 166 页	OL-Z13 钻头研磨机 Drill Bit Re-sharpener  ○详细请参照第 167 页	OL-Z13 钻头研磨机 Drill Bit Re-sharpener  ○详细请参照第 168 页				
OL-U2 万能磨刀机 Universal Cutter Grinder  ○详细请参照第 168 页	OL-U2 万能磨刀机 Universal Cutter Grinder  ○详细请参照第 169 页	永磁吸盘起重器 Permanent Magnetic Lifters  ○详细请参照第 170 页	圆形电磁起重器 Electro Magnetic Lifter  ○详细请参照第 170 页				



○材质: 65Mn ○ Material: 65Mn ○ Run Out
○硬度: HRC44-48 ○ Hardness: HRC44-48 I: ≤ 0.003mm II: ≤ 0.005mm III: ≤ 0.008mm
IV: ≤ 0.015mm V: ≤ 0.01mm

型号 Model	dH7	D	D1	D2	L	L1	L2	L3	弹性收缩量 Collapsible capacity
ER8	1.0- 5.0	8	8.5	6.5	13.5	2.7	1.5	1.5	0.5
ER11	1.0-7.0	11	11.5	9.5	18.0	3.8	2.5	2.0	0.5
ER16	1.0-2.5	16	17	13.8	27.5	6.26	4.0	2.7	0.5
	2.5-10.0	16	17	13.8	27.5	6.26	4.0	2.7	1.0
ER20	1.0-2.5	20	21	17.4	31.5	6.36	4.8	2.8	0.5
	2.5-13.0	20	21	17.4	31.5	6.36	4.8	2.8	1.0
ER25	1.0-2.5	25	26	22.0	34.0	6.66	5.0	3.1	0.5
	2.5-16.0	25	26	22.0	34.0	6.66	5.0	3.1	1.0
ER32	2.0- -2.5	32	33	29.2	40.0	7.16	5.5	3.6	0.5
	2.5- -20.0	32	33	29.2	40.0	7.16	5.5	3.6	1.0
ER40	3.0- -26.0	40	41	36.2	46.0	7.66	7.0	4.1	1.0
ER50	6.0- -10.0	50	52	46.0	60.0	12.6	8.5	5.5	1.0
	10.0- 34.0	50	52	46.0	60.0	12.6	8.5	5.5	2.0



○材质: 不锈钢 4Cr13 ○ Material: Stainless Steel 4Cr13
○本体精度: <0.008MM ○ Body Accuracy: <0.008MM
○硬度: HRC50-55° ○ Hardness: HRC50-55°

Mode	D	D1	D2	L	L1	L2	L3	Clamping Range
ER8	8	8.5	6.5	13.5	2.7	1.5	1.5	1-5mm
ER11	11	11.5	9.5	18	3.8	2.5	2	1-7mm
ER16	16	17	13.8	27.5	6.26	4	2.7	1-10mm
ER20	20	21	17.4	31.5	6.36	4.8	2.8	1-13mm
ER25	25	26	22	34	6.66	5	3.1	1-16mm
ER32	32	33	29.2	40	7.16	5.5	3.6	1-20mm
ER40	40	41	36.2	46	7.66	7	4.1	3-26mm
ER50	50	52	46	60	12.6	8.5	5.5	6-34mm



ER8 (1-5mm)	ER11 (1- 7mm)	ER16 (1-10mm)	ER20 (1-13mm)	ER25 (1-16mm)	ER32 (1-20mm)	ER40 (3-26mm)	ER50 (10-32mm)
1.0-0.5	1.0-0.5	1.0-0.5	1.0-0.5	1.0-0.5	1.0-0.5	3-2	6-5
1.5-1.0	1.5-1.0	1.5-1.0	1.5-1.0	1.5-1.0	1.5-1.0	4-3	7-6
2.0-1.5	2.0-1.5	2.0-1.5	2.0-1.5	2.0-1.5	2.0-1.5	5-4	8-7
2.5-2.0	2.5-2.0	2.5-2.0	2.5-2.0	2.5-2.0	2.5-2.0	6-5	9-8
3.0-2.5	3.0-2.5	3-2	3-2	3-2	3-2	7-6	10-9
3.5-3.0	3.5-3.0	4-3	4-3	4-3	4-3	8-7	11-9
4.0-3.5	4.0-3.5	5-4	5-4	5-4	5-4	9-8	12-10
4.5-4.0	4.5-4.0	6-5	6-5	6-5	6-5	10-9	13-11
5.0-4.5	5.0-4.5	7-6	7-6	7-6	7-6	11-10	14-12
	5.5-5.0	8-7	8-7	8-7	8-7	12-11	15-13
	6.0-5.5	9-8	9-8	9-8	9-8	13-12	16-14
	6.5-6.0	10-9	10-9	10-9	10-9	14-13	17-15
	7.0-6.5		11-10	11-10	11-10	15-14	18-16
			12-11	12-11	12-11	16-15	19-17
			13-12	13-12	13-12	17-16	20-18
				14-13	14-13	18-17	21-19
				15-14	15-14	19-18	22-20
				16-15	16-15	20-19	23-21
					17-16	21-20	24-22
					18-17	22-21	25-23
					19-18	23-22	26-24
					20-19	24-23	27-25
						25-24	28-26
						26-25	29-27
							30-28
							31-29
							32-30
							33-31
							34-32

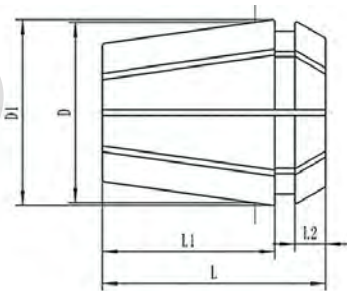
型号 Model	规格 Types	
	公制 metric	英制 inch
ER8	1/1.5/2/2.5/3/3. 5/4/4.5/5	1/32,3/64,1/16,5/64,3/32,7/64,1/8,9/64,5/32,11/64,3/16
ER11	1/1.5/2/2.5/3/3.5/4/4.5/5/5.5/6/6.5/7	1/32,3/64,1/16,5/64,3/32,7/64,1/8,9/64, 5/32,11/64,3/16,13/64 7/32,15,64,1/4,17/64
ER16	1/1.5/2/2.5/3/3.5/4/4.5/5/5.5/6/6.5/7 7.5/8/8. 5/9/9.5/10	1/32,3/64,1/16,5/64,3/32,7/64,1/8,9/64,5/32, 1 1/64,3/16,13/64 7/32,15,64,1/4, 17/64,9,32,19/64,5/16,21/64,11/32,23/64,3/8
ER20	1/1.5/2/2.5/3/3.5/4/4.5/5/5.5/6/6.5/7/ 7.5/8/8.5/9/9.5/ 10/10.5/11/11.5/12/ 12.5/13	1/32,3/64,1/16,5/64,3/32,7/64,1/8,9/64,5/32,11/64,3/16,13/64 7/32,15,64, 1/4,17/64,9,32,19/64,5/16,21/64,1 1/32 ,23/64,3/8, 25/64,13/32,27/64,7/16,29/ 64,15/32,31/64,1/2,33/64
ER25	1/1.5/2/2.5/3/3.5/4/4.5/5/5.5/6/6.5/7/ 7.5/8/8.5/9/9.5/ 10/10.5/11/11.5/12/ 12.5/13/13.5/14/14.5/15/15.5/16	3/64,1/16,5/64,3/32,7/64,1/8,9/64,5/32,11/64,3/16,13/64,7/32, 15,64,1/4,17/64 ,9/32,19/64,5/16,21/4,1 1/32,23/64,3/8,25/64, 13/32,27/64,7/16,29/64, 15/32, 31/64,1/2,33/64,17/32/35,64 9/16,37/64,19/32,39/64,5/8
ER32	1/1.5/2/2.5/3/4/5/6/ 7/8/9/10/11/12/13 1 4/15/16/1 7/18/19/20	1/16,3,32,1/8,5/32,3/16,7/32,1/4,9/32,5/64,11/32,3/8,13/32, 7/16,15/32,1/2, 17/32,9/16,19/32,5/8,21/32,11/16,23/32,3/4,23/32
ER40	3/4/5/6/ 7/8/9/10/11/12/13/1 4/15/16/ 17/18/19/20/21/22/23/24/25/26	1/8,5/32,3/16,7/32,1/4,9/32,5/16,11/32,3/8,13/32,7/16,15/32,1/2, 17/32,9/16,19/ 32,5/8,21/32,11/16,23/32,3/4,25/32,13/16,27/32, 7,8,29,32,15/16,31/32,1"
ER50	6/7/8/9/10/11/12/13/14/15/16/1 7/18/ 19/20/21/22/23/24/25/26/2 7/28/29/ 30/31/32/33/34	1/4,9/32,5/16,11/32,3/8,13/32,7/16,15/32,1/2,17/32,9/16,19/32 5/8,21/32,11/16,2 3/32,3/4,25/32,13/16,27/32,7/8,29/32,15/16, 31/32,1",1-1/32,1-1/16, 1-3/32,1-1/8,1-5/32,1-3/16,1-7/32,1-1/4, 1-9/32,1-5/16



型号 Model	规格 Spec	支 / 套 PCS/SET
ER25-14PCS	3 , 4 , 5 , 6 , 7 , 8 , 9 , 10 , 11 , 12 , 13 , 14 , 15 , 16	14PCS/SET
ER25-15PCS	2 , 3 , 4 , 5 , 6 , 7 , 8 , 9 , 10 , 11 , 12 , 13 , 14 , 15 , 16	15PCS/SET
ER25-18PCS	1 , 1.5 , 2 , 2.5 , 3 , 4 , 5 , 6 , 7 , 8 , 9 , 10 , 11 , 12 , 13 , 14 , 15 , 16	18PCS/SET
ER25-18PCS(inch)	3/32 , 1/8 , 5/32 , 3/16 , 7/32 , 1/4 , 9/32 , 5/16 , 11/32 , 3/8 , 13/32 , 7/16 , 15/32 , 1/21 , 7/32 , 9/16 , 19/32 , 5/8	18PCS/SET
ER25-9PCS(inch)	1/8 , 3/16 , 1/4 , 5/16 , 7/16 , 1/2 , 9/16 , 3/8	9PCS/SET
型号 Model	规格 Spec	支 / 套 PCS/SET
ER32-18PCS	3 , 4 , 5 , 6 , 7 , 8 , 9 , 10 , 11 , 12 , 13 , 14 , 15 , 16 , 17 , 18 , 19 , 20	18PCS/SET
ER32-19PCS	2 , 3 , 4 , 5 , 6 , 7 , 8 , 9 , 10 , 11 , 12 , 13 , 14 , 15 , 16 , 17 , 18 , 19 , 20	19PCS/SET
ER32-21PCS	1 , 1.5 , 2 , 3 , 4 , 5 , 6 , 7 , 8 , 9 , 10 , 11 , 12 , 13 , 14 , 15 , 16 , 17 , 18 , 19 , 20	21PCS/SET
ER32-18PCS(inch)	1/8 , 5/32 , 3/16 , 7/32 , 1/4 , 9/32 , 5/16 , 11/32 , 3/8 , 7/16 , 15/32 , 1/2 , 9/16 , 19/32 , 5/8 , 11/16 , 23/32 , 3/4	18PCS/SET
ER32-12PCS(inch)	1/8 , 5/32 , 3/16 , 1/4 , 5/16 , 3/8 , 7/16 , 1/2 , 9/16 , 5/8 , 11/16 , 3/4	12PCS/SET
ER32-11PCS(inch)	1/8 , 3/16 , 1/4 , 5/16 , 3/8 , 7/16 , 1/29 , /16 , 5/8 , 11/16 , 3/4	11PCS/SET
ER32-21PCS(inch)	1/8 , 5/32 , 3/16 , 7/32 , 1/4 , 9/32 , 5/16 , 11/32 , 3/8 , 13/32 , 7/16 , 15/32 , 1/21 , 7/32 , 9/16 , 19/32 , 5/82 , 1/32 , 11/16 , 23/32 , 3/4	21PCS/SET
型号 Model	规格 Spec	支 / 套 PCS/SET
ER40-24PCS	3 , 4 , 5 , 6 , 7 , 8 , 9 , 10 , 11 , 12 , 13 , 14 , 15 , 16 , 17 , 18 , 19 , 20 , 21 , 22 , 23 , 24 , 25 , 26	24PCS/SET
ER40-23PCS	4 , 5 , 6 , 7 , 8 , 9 , 10 , 11 , 12 , 13 , 14 , 15 , 16 , 17 , 18 , 19 , 20 , 21 , 22 , 23 , 24 , 25 , 26	23PCS/SET
ER40-18PCS	4 , 5 , 6 , 7 , 8 , 9 , 10 , 11 , 12 , 13 , 14 , 15 , 16 , 17 , 18 , 19 , 20 , 25	18PCS/SET
ER40-15PCS	4 , 5 , 6 , 7 , 8 , 9 , 10 , 12 , 14 , 15 , 16 , 18 , 20 , 22 , 24 , 25 , 26	15PCS/SET
ER40-8PCS	4 , 6 , 8 , 10 , 12 , 16 , 20 , 25	8PCS/SET
ER40-23PCS(inch)	1/8 , 5/32 , 3/16 , 7/32 , 1/4 , 9/32 , 5/16 , 11/32 , 3/8 , 7/16 , 15/32 , 1/2 , 9/16 , 19/32 , 5/8 , 11/16 , 23/32 , 3/4 , 13/16 , 27/32 , 7/8 , 29/32 , 1"	23PCS/SET
ER40-18PCS(inch)	5/32 , 3/16 , 7/32 , 1/4 , 9/32 , 5/16 , 11/32 , 3/8 , 7/16 , 15/32 , 1/2 , 9/16 , 19/32 , 5/8 , 11/16 , 3/4 , 13/16 , 1"	18PCS/SET
ER40-15PCS(inch)	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
ER40-14PCS(inch)	1/8 , 3/16 , 1/4 , 5/16 , 3/8 , 7/16 , 1/2 , 9/16 , 5/8 , 1 1/16 , 3/4 , 13/16 , 7/8 , 1"	14PCS/SET
ER40-8PCS(inch)	1/8 , 1/4 , 3/8 , 1/2 , 5/8 , 3/4 , 7/8 , 1"	8PCS/SET



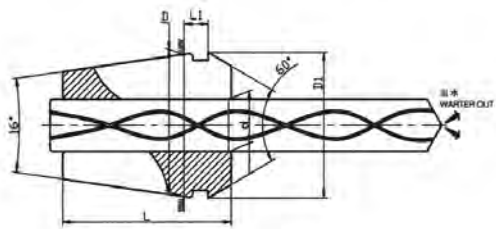
型号 Model No.	规格 Spec	支 / 套 PCS/SET
ER8-9PCS	1 , 1.5 , 2 , 2.5 , 3 , 3.5 , 4 , 4.5 , 5	9PCS/SET
ER8-6PCS(inch)	1/32 , 1/16 , 3/32 , 1/8 , 5/32 , 3/16	6PCS/SET
型号 Model No.	规格 Spec	支 / 套 PCS/SET
ER11-7PCS	1 , 2 , 3 , 4 , 5 , 6 , 7	7PCS/SET
ER11-9PCS	3 , 3.5 , 4 , 4.5 , 5 , 5.5 , 6 , 6.5 , 7	9PCS/SET
ER11-13PCS	1 , 1.5 , 2 , 2.5 , 3 , 3.5 , 4 , 4.5 , 5 , 5.5 , 6 , 6.5 , 7	13PCS/SET
ER11-8PCS(inch)	1/32 , 1/16 , 3/32 , 1/8 , 5/32 , 3/16 , 7/32 , 1/4	8PCS/SET
型号 Model No.	规格 Spec	支 / 套 PCS/SET
ER16-10PCS	1 , 2 , 3 , 4 , 5 , 6 , 7 , 8 , 9	10PCS/SET
ER16-8PCS	3 , 4 , 5 , 6 , 7 , 8 , 9 , 10	8PCS/SET
ER16-12PCS	1 , 1.5 , 2 , 2.5 , 3 , 4 , 5 , 6 , 7 , 8 , 9 , 10	12PCS/SET
ER16-12PCS(inch)	1/32 , 1/16 , 3/32 , 1/8 , 5/32 , 3/16 , 7/32 , 1/4 , 9/32 , 5/16 , 11/32 , 3/8	12PCS/SET
ER16-8PCS(inch)	1/8 , 5/32 , 3/16 , 7/32 , 1/4 , 9/32 , 5/16 , 11/32 , 3/8	8PCS/SET
ER16-5PCS(inch)	1/8 , 3/16 , 1/4 , 9/32 , 5/16 , 3/8	5PCS/SET
型号 Model	规格 Spec	支 / 套 PCS/SET
ER20-12PCS	2 , 3 , 4 , 5 , 6 , 7 , 8 , 9 , 10 , 11 , 12 , 13	12PCS/SET
ER20-13PCS	1 , 2 , 3 , 4 , 5 , 6 , 7 , 8 , 9 , 10 , 11 , 12 , 13	13PCS/SET
ER20-11PCS	3 , 4 , 5 , 6 , 7 , 8 , 9 , 10 , 11 , 12 , 13	11PCS/SET
ER20-14PCS	1 , 1.5 , 2 , 3 , 4 , 5 , 6 , 7 , 8 , 9 , 10 , 11 , 12 , 13	14PCS/SET
ER20-16PCS(inch)	1/32 , 1/16 , 3/32 , 1/8 , 5/32 , 3/16 , 7/32 , 1/4 , 9/32 , 5/16 11/32 , 3/8 , 13/32 , 7/16 , 15/32 , 1/2	16PCS/SET
ER20-14PCS(inch)	3/32 , 1/8 , 5/32 , 3/16 , 7/32 , 5/16 , 11/32 , 3/8 , 13/32 , 7/16 15/32 , 1/2	14PCS/SET
ER20-11PCS(inch)	1/8 , 5/32 , 3/16 , 7/32 , 1/4 , 9/32 , 5/16 , 11/32 , 3/8 , 7/16 , 1/2	11PCS/SET



○材料：65Mn
○硬度：HRC44-48

○Material: 65Mn
○Hardness: HRC44-48

Model	D	D1	L	L1	L2	攻丝范围 Tapping range				
ER16	16	16.17	27.5	21.2	4	M2-M12				
ER20	20	20.74	31.5	24.3	4.8	M3-M16				
ER25	25	25.74	34	26.5	5	M3-M20				
ER32	32	32.74	40	31.8	5.5	M3-M24				
ER40	40	40.74	46	35.5	7	M3-M30				
ISO 国标 丝锥规格	丝锥尺寸		JIS 日标 丝锥规格	丝锥尺寸		DIN 德标 丝锥规格	丝锥尺寸			
	柄径 D1	四方 t		柄径 D1	四方 t		柄径 D1	四方 t		
ERG16 夹持丝锥规格 Clamping wire specifications										
M1-M2	2.5	2		M2	3	2.5		M1-M1.8	2.5	2.1
M2.2-M2.5	2.8	2.24						M2-M2.5	2.8	2.1
M3	3.15	2.5		M3	4	3.2		M3	3.5	2.7
M4	4	3.15		M4	5	4		M4	4.5	3.4
M5	5	4		M5	5.5	4.5		M5	6	4.9
M6	6.3	5		M6	6	4.5		M6	6	4.9
M8	6.3	5		M8	6.2	5		M8	8	6.2
M10	8	6.3		M10	7	5.5		M10	10	8
M12	9	7.1		M12	8.5	6.5		M12	9	7
ERG20 夹持丝锥规格 Clamping wire specifications										
M3	3.15	2.5		M3	4	3.2		M3	3.5	2.7
M4	4	3.15		M4	5	4		M4	4.5	3.4
M5	5	4		M5	5.5	4.5		M5	6	4.9
M6	6.3	5		M6	6	4.5		M6	6	4.9
M8	6.3	5		M8	6.2	5		M8	8	6.2
M10	8	6.3		M10	7	5.5		M10	10	8
M12	9	7.1		M12	8.5	6.5		M12	9	7
M14	11.2	9		M14	10.5	8		M14	11	9
M16	12.5	10		M16	12.5	10		M16	12	9



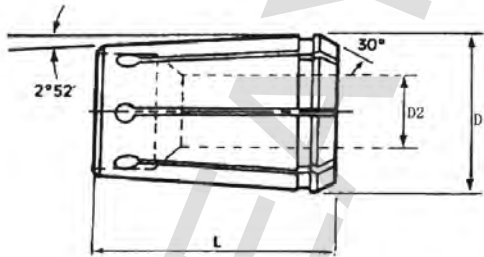
○材料：65Mn
○硬度：HRC44-48
○利用沟槽差异，达到周围止水，仅中心出水功能
○适用于夹持有出水孔的刀具
○可承受水压 7Mpa
○非标准孔可订制 ISO JIS DIN

○Material: 65Mn
○Hardness: HRC44-48

○ Differences in the use of grooves to reach around the sealing
○ Cenfral water feature only applies to folders to hold the water hole tool
○ Canwithsand water pressure 7Mpa
○ Non-standard holes can be customized.ISO JIS DIN

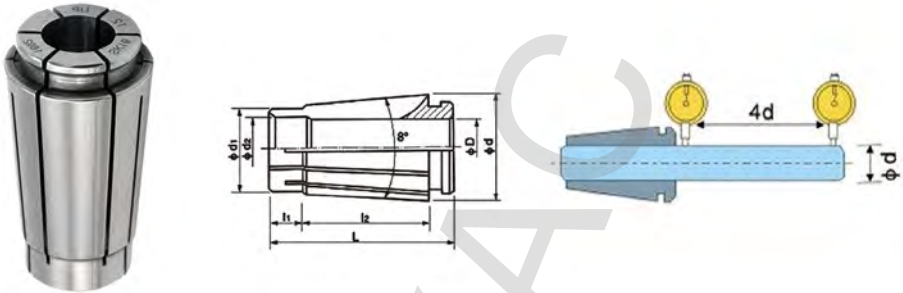
型号 Model	d	夹持范围 Range	D	D1	L	L1
ER11C	3-7	0.1	11	11.5	18	3.8
ER16C	3-6	0.1	16	17	27.5	6.26
	6-10	0.5				
ER20C	3-6	0.1	20	21	31.5	6.36
	6-13	0.5				
ER25C	3-6	0.1	25	26	34	6.66
	6-16	0.5				
ER32C	3- -8	0.1	32	33	40	7.16
	8- -20	0.5				
ER40C	4-10	0.1	40	41	46	7.66
	10- -26	0.5				
ER50C	12- -34	0.5	50	52	60	12.6

EOC/OZ 筒夹 EOC/OZ Collets



65Mn
Taper: 1:10
DIN3688
≤ 0.015mm

Model	D1	L	D2	
EOC25	35.5	52	Metric	3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25
			Inch	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"
EOC32	44	60	Metric	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	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"



65Mn
HRC:44~48
≤ 0.005mm

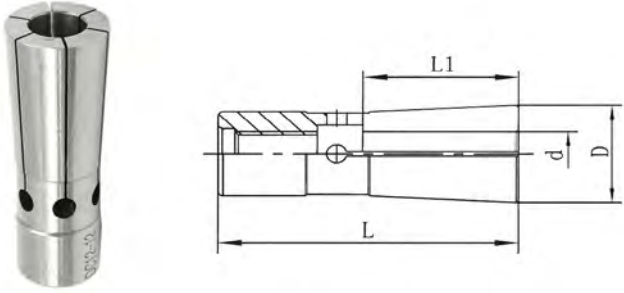
Size	Inside Diameter	d	d1	L	L1	L2
SK10	2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9,9.5,10mm	15.5	12	30.5	5.1	21.3
SK16	3,4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9,9.5,10,10.5,11,11.5,12,12.5,13,13.5,14,14.5,15,15.5,16mm	24.5	18.8	45	7.5	32.4
SK20	7.5,8,9.5,10,11.5,12,15.5,16,16.5,17,17.5,18,18.5,19,19.5,20mm	29.1	22.6	54	8	40.7
SK25	7.5,8,9.5,10,11.5,12,15.5,16,16.5,17,17.5,18,18.5,19,19.5,20,20.5,21,21.5,22,22.5,23,23.5,24,24.5,25mm	35.7	28.9	57	8.4	43.1



材质: 65Mn 本体精度: <0.003MM 硬度: HRC50-55° 渗碳深度: ≥ 0.8MM
Material:65Mn Body Accuracy:<0.003MM Hardness:HRC50-55° Carburized depth: ≥ 0.8MM

Model	d	L	L	L1
HC12-3	3	12	47	45
HC12-4	4			
HC12-5	5			
HC12-6	6			
HC12-8	8			
HC20-3	3	20	53.5	50.5
HC20-4	4			
HC20-5	5			
HC20-6	6			
HC20-7	7			
HC20-8	8			
HC20-9	9			
HC20-10	10			
HC20-11	11			
HC20-12	12			
HC20-13	13			
HC20-14	14			
HC20-15	15			
HC20-16	16			
HC32-6	6	32	64.5	61
HC32-8	8			
HC32-10	10			
HC32-12	12			
HC32-14	14			
HC32-16	16			
HC32-18	18			
HC32-20	20			
HC32-25	25			

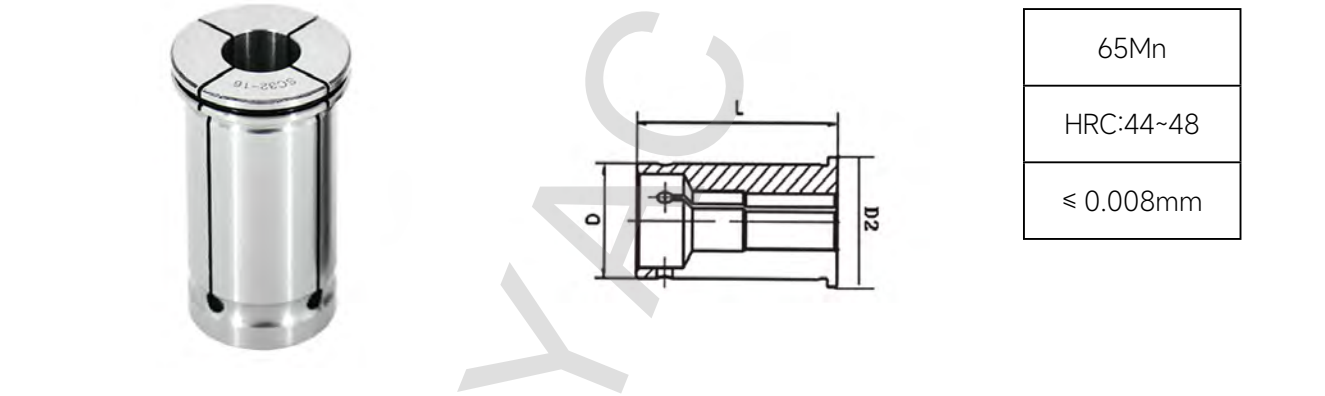
SDC 筒夹 SDC Collets



65Mn
HRC:44~48
≤ 0.005mm

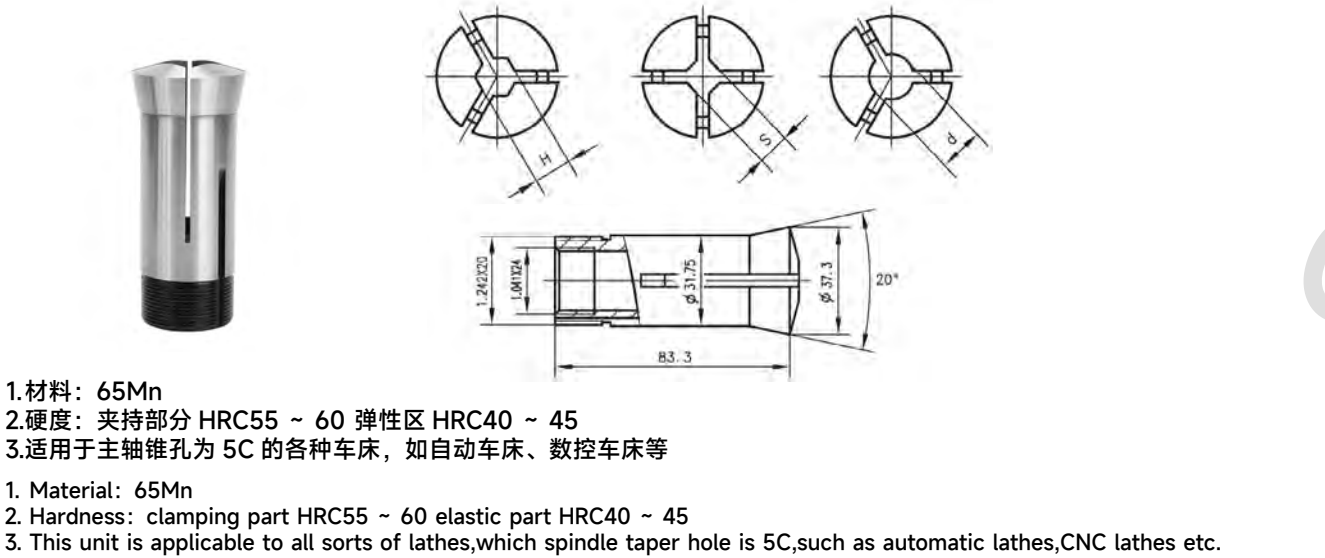
Model	d	L	L1	D	
SDC6	3E	3	36	14	9.6
	3.175E	3.175	36	14	9.6
	4E	4	36	14	9.6
	5E	5	36	16	9.6
	6E	6	36	16	9.6
SDC8	3E	3	45	15	15
	4E	4	45	16	15
	6E	6	45	24	15
	8E	8	45	26	15
SDC12	4E	4	60	15	22
	6E	6	60	25	22
	8E	8	60	30	22
	1 OE	10	60	33	22
	12E	12	60	33	22

直柄筒夹 Straight Collets



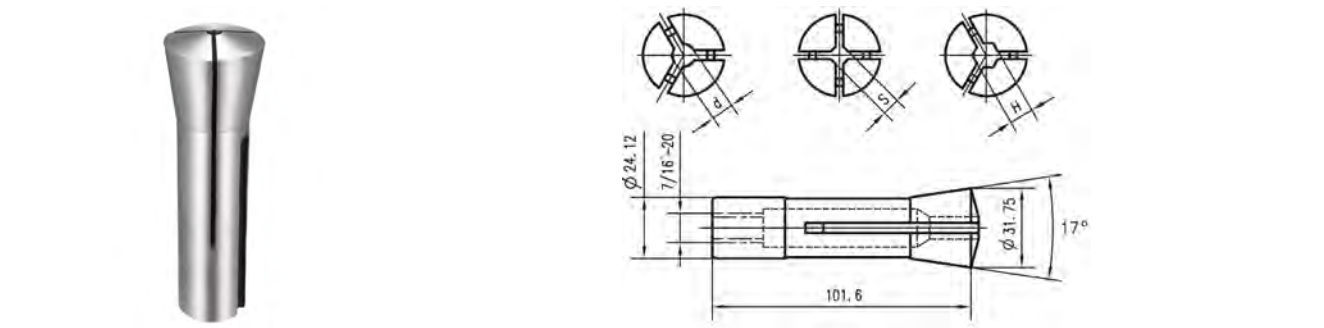
Size	Inside Diameter	D	D2	L
C20	3,4,5,6,8,10,12,16mm	20	25	52
C25	3,4,5,6,8,10,12,16,18,20mm	25	31	60
C32	3,4,5,6,8,10,12,16,18,22,24,20,25mm	32	37	73
C42	3,4,5,6,8,10,12,16,18,20,22,24,25,28,30,32mm	42	48	80

5C 弹簧筒夹 5C Collets



Model	型式 Type	夹持范围 Clamping range		重量 Wt(kg)
		mm	in	
5C-01-d	圆孔 Round	1 ~ 28	1/32 ~ 1-1/8	0.24
5C-02-S	四方孔 Square	3 ~ 19	1/8 ~ 3/4	0.24
5C-03-H	六方孔 Hex	3 ~ 22	1/8 ~ 7/8	0.24

R8 弹簧筒夹 R8 Collets



1. 材料: 65Mn

2. 硬度: 夹持部分 HRC55 ~ 60 弹性区 HRC40 ~ 45

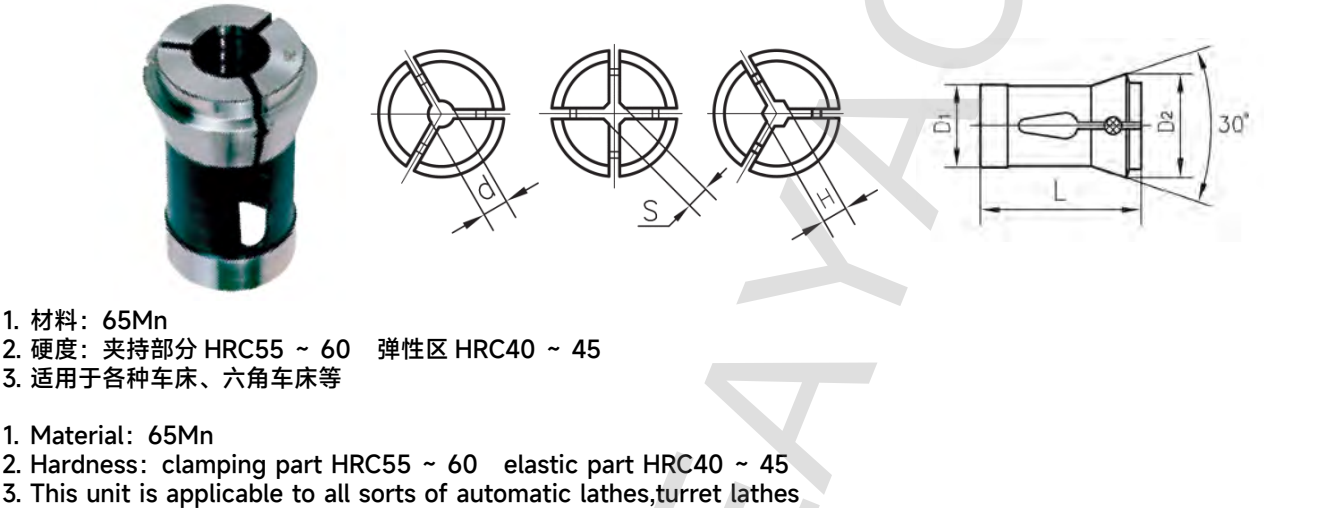
3. 适用于主轴锥孔为 R8 的各种铣床, 如 X6325、X5325 等
1. Material: 65Mn

2. Hardness: clamping part HRC55 ~ 60 elastic part HRC40 ~ 45

3. This unit is applicable to all sorts of milling machines,which spindle taper hole is R8,such as X6325、X5325 etc.

Model	型式 Type	夹持范围 Clamping range		重量 Wt(kg)
		mm	in	
R8-01-d	圆孔 Round	1 ~ 20	1/16 ~ 7/8	0.24
R8-02-S	四方孔 Square	3 ~ 13	1/8 ~ 1/2	0.24
R8-03-H	六方孔 Hex	3 ~ 16	1/8 ~ 5/8	0.24

前推式筒夹 Clamping Collets



Model	D1(mm)	D2(mm)	L(mm)	孔径 Hole size(mm)			重量 Wt(kg)
				圆孔 ROUND	四方孔 SQUARE	六方孔 HEX	
F17.5	17.5	22	51	13	8	10	0.05
F22	22	30	55	16	11	13	0.09
F27	27	38	72.7	22	15	19	0.10
F28	28	38	70	22	15	19	0.12
F32	32	45	75	26	18	22	0.27
F35	35	48	80	30	21	26	0.35
F42	42	55	94	36	25	30	0.49
F48	48	60	94	42	29	36	0.57
F56	56	68	94	50	35	42	0.65
F66	66	84	110	60	42	52	1.16

ER-M 型扳手 ERM Spanners



Model of Spanners	Type of Nuts
ER11M	ER11M
ER16M	ER16M
ER20M	ER20M

ER 勾头扳手 ER Spanners



Model of Spanners	Type of Nuts
WTG-42	ER25
WTG-52	ER32 APU13
WTG-63	ER40 APU16
WTG-85	ER50 C32

ER-UM 型扳手 ER-UM Spanners



Model of Spanners	Type of Nuts
ER25	ER25UM
ER32	ER32UM
ER40	ER40UM

拉钉扳手 Pull Stud Spanners



Model of Spanners	Type of Nuts
BT30	BT30
BT40	BT40
BT50	BT50

APU 扳手 APU Spanners



Model of Spanners	Type of Drill Chucks
APU13-A	APU13-A
APU13-B	APU13-B

ER-A 型扳手 ERA Spanners



Model of Spanners	Type of Nuts
ER11A	ER11A
ER16A	ER16A
ER20A	ER20A

ER-UM 型扳手 ER-UM Spanners



Model of Spanners	Type of Nuts
ER20	ER20UM
ER25	ER25UM
ER32	ER32UM
ER40	ER40UM

ER-O 型扳手 ER-O Spanners



Model of Spanners	Type of Nuts
ER25	ER25UM
ER32	ER32UM
ER40	ER40UM

ERMS 扳手 ERMS Spanners



Model of Spanners	Type of Nuts
ER11MS	ER11MS
ER16MS	ER16MS
ER20MS	ER20MS

扭力调节扳手
Torqua Adjustment Wrench



Model of Spanners	Type of Tapping Collets
GT12	GT12
GT24	GT24
GT42	GT42

APU 扳手 APU Spanners



Model of Spanners	Type of Drill Chucks
APU13	APU13
APU16	APU16

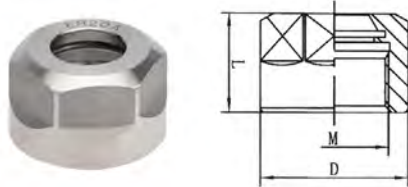
滚珠轴承扳手
Roller Bearing Wrench



Model of Spanners	Type of Nuts
GSK10	GSK10
GSK13	GSK13
GSK16	GSK16
GSK20	GSK20
GSK16	GSK16
GSK20	GSK20
GSK25	GSK25
GSK32	GSK32
GSK32	GSK32

螺母系列 Nut Series

ER-A 型螺帽 ER-A Nuts



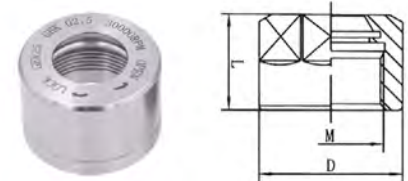
MODEL	L	D	M
ER11A	11.3	19	M14×0.75P
ER16A	17.5	28	M22×1.5P
ER20A	19	34	M22×1.5P

ER-UM 型螺帽 ER-UM Nuts



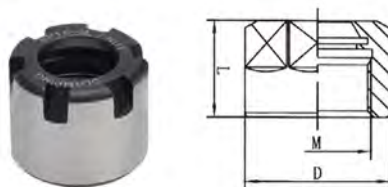
MODEL	L	D	M
ER25UM	20	42	M32×1.5P
ER32UM	22.5	50	M40×1.5P
ER40UM	25.5	63	M50×1.5P

ER-GER 型螺帽 ER-GER Nuts



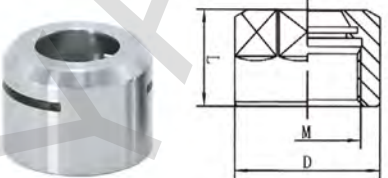
MODEL	L	D	M
GER16	23	30	M19×1.0P
GER20	25	35	M24×1.0P
GER25	26	40	M30×1.0P
GER32	30	50	M40×1.5P

ER-M 型螺帽 ER-M Nuts



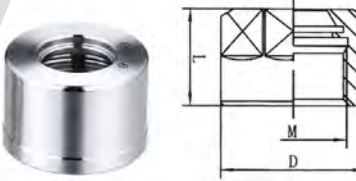
MODEL	L	D	M
ER11M	12	16	M13×0.75P
ER16M	18	22	M19×1.0P
ER20M	19	28	M24×1.0P
ER25M	20	35	M30×1.0P

ER-MS 型螺帽 ER-MS Nuts



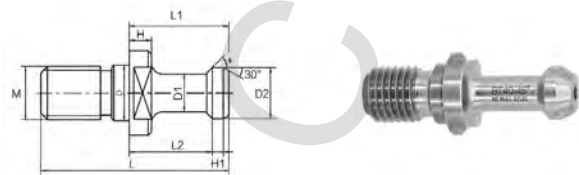
MODEL	L	D	M
ER11MS	11.3	16	M13×0.75P
ER16MS	17	22	M19×1.0P
ER20MS	19	28	M24×1.0P
ER25MS	23	35	M30×1.0P

ER-GSK 型螺帽 ER-GSK Nuts



MODEL	L	D	M
GSK06	21	19	M15.5×1.0P
GSK10	24	27	M21.5×1.0P
GSK13	27	35	M28×1.5P
GSK16	31	40	M32×1.5P
GSK20	35	48	M40×1.5P
GSK25	37	55	M45×1.5P

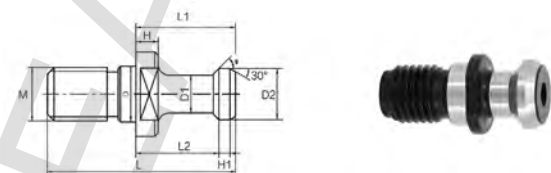
BT 拉钉系列



MAS 403-1982

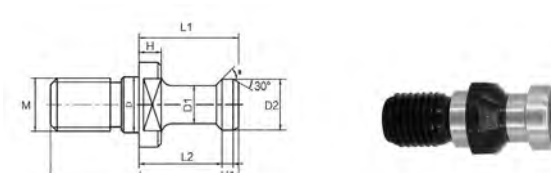
Model	L	L1	L2	D	D1	D2	H	H1	M	θ		
BT30(θ)	43	23	18	12.5	7	11	5	2.5	M12	45°	60°	90°
BT40(θ)	60	35	28	17	10	15	6	3	M16	45°	60°	90°
BT50(θ)	85	45	35	25	17	23	10	5	M24	45°	60°	90°

MAZAK 拉钉系列



Model	L	L1	L2	D	D1	D2	H	H1	M
MAZAK-BT40	44.10	19.10	14.02	17	12.45	18.8	3.05	1.52	M16
MAZAK-CAT40	41.25	16.25	11.17	17	12.45	18.8	3.05	1.52	M16
MAZAK-BT50	65.20	25.20	17.7	25	20.83	28.96	5.05	2.54	M24

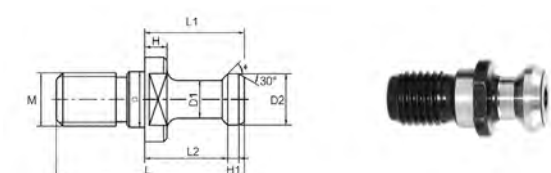
JT/SK 系列拉钉



DIN69872-1988

Model	L	L1	L2	D	D1	D2	M
JT30	44	24	19	13	9	13	M16
JT40	54	26	20	17	14	19	M16
JT50	74	34	25	25	21	28	M24

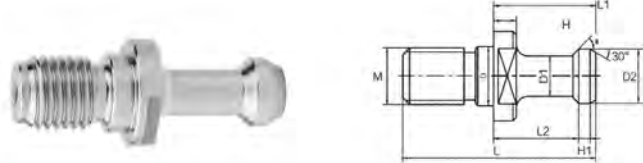
CAT 系列拉钉



ANSI/ASME B5.50-1985

Model	L	L1	L2	D1	D2	H	H1	M
CAT30	27.94	11.68	8.13	9.78	13.21	2.54	1.01	12"-13
CAT40	38.10	16.26	11.18	12.45	18.80	3.05	1.52	5/8"-11
CAT50	58.42	25.4	17.78	20.83	28.96	5.08	2.54	1"-8

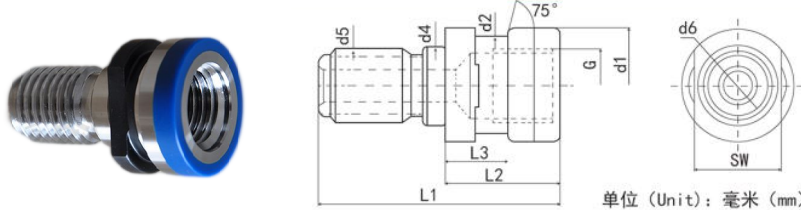
不锈钢拉钉 Stainless Steel Pull Stud



材质: 不锈钢 4Cr13 产品标准: MAS403 角度可选: 45°/60°/90° 表面硬度: HRC55-58°
Material: stainless steel 4Cr13 Product standard: MAS403 Optional angle: 45°/60°/90° Surface hardness: HRC55-58°

Model	L	L1	L2	D	D1	D2	H	H1	M
BT30	43	23	18	12.5	7	11	5	2.5	M12
BT40	60	35	28	17	10	15	6	3	M16
BT50	85	45	35	25	17	23	10	5	M24

OTT 拉钉 OTT Pull Stud



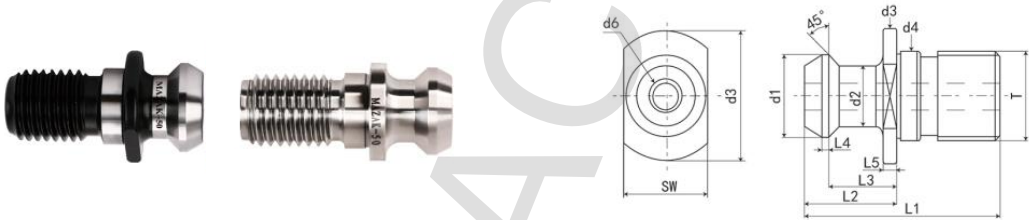
Model	d1	d2	d4	d5	d7	d8	L1	L2	L3	L5	L6	S	重量 Weight
OTT40	25	17	21.1	7	M16	M16	53	25.1	13.6	6	5	19	0.086
OTT50	39.6	25	30.2	7	M24	M24	65.1	25.1	13.3	6	8	30	0.233

ISO 雕刻机用拉钉 Pull Stud Of Carving Machine



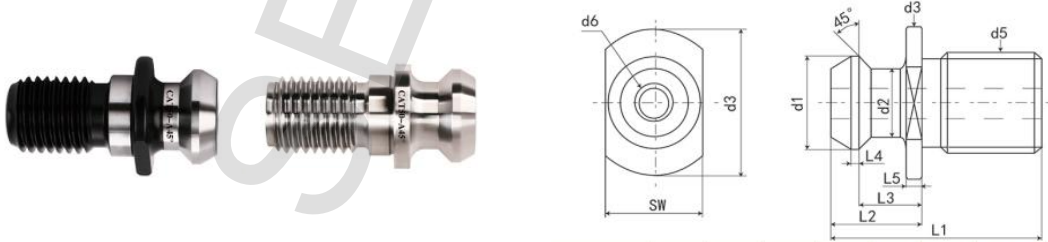
Model	D	d	d1	d2	L	L1	L2	W	M
ISO20	11.4	9	6	8.5	26	12	9	10	M8*1.25P
ISO25	12	10	7	9	32	16	11.6	10	M8*1.25P
ISO30	17	13	9	13	45	24	19	14	M12*1.75P

马扎克、三井系列拉钉 Mazak Mitsui Series Pull Studs



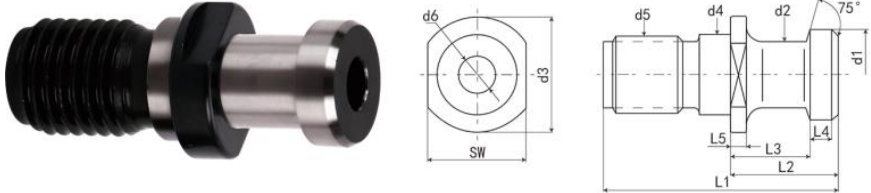
Model	d1	d2	d3	d4	d5	d7	d8	L1	L2	L3	L5	L6	L9	S	重量 Weight
MAZAK-BT40	18.8	17	22	12.45		M16		4.1	19.1	14.02	3	5	1.52	19	0.051
MAZAK-BT40/W					7										
MAZAK-BT50	28.96	25	37	20.83		M24	16	65.2	25.2	17.58	5	8	2.54	30	0.191
MAZAK-BT50/W					10										

美国标准拉钉 American Standard Pull Stud ANSI/AMSE B550-1994



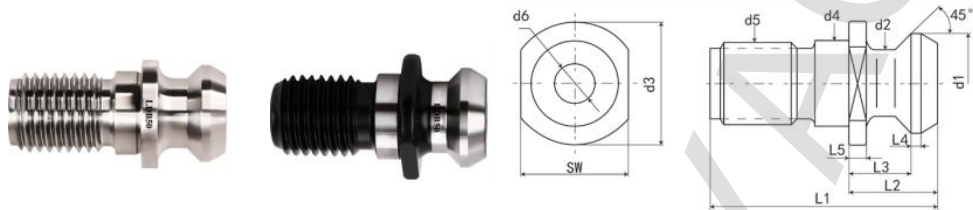
Model	d1	d3	d4	d5	d7	L1	L2	L3	L5	L9	S	重量 Weight
CAT30-45° U	13.21	16.51	9.78		0.5"-13UNC	27.94	11.68	8.13	2.54	1.02	13.46	
CAT30-45° U/W				4.75								
对应英制尺寸 inch	0.520	0.65	0.385	0.187		1.10	0.460	0.320	0.10	0.04	0.53	
CAT40-45° U	18.80	23.88	1.245		0.625"-11UNC	38.10	16.26	11.18	3.05	1.52	19.05	0.055
CAT40-45° U/W				7.14								43
对应英制尺寸 inch	0.740	0.94	490	0.281		1.50	0.640	440	0.12	0.06	0.75	
CAT45-45° U	23.88	30.48	15.37		0.75"-10UNC	45.72	20.83	14.73	4.06	2.03	25.40	
CAT45-45° U/W				9.53								
对应英制尺寸 inch	0.940	1.20	0.605	0.375		1.80	0.820	0.580	0.16	0.08	1.00	
CAT50-45° U	28.96	36.58	20.83		1"-8UNG	58.42	25.40	17.78	5.08	2.54	31.75	0.220
CAT50-45° U/W				11.89								0.170
对应英制尺寸 inch	1.140	1.44	0.820	0.468		2.30	1.000	0.700	0.20	0.10	1.25	
CAT60-45° U	37.08	54.36	26.54		1.25"-7UNC	81.28	38.10	27.43	7.62	3.56	38.10	
CAT60-45° U/W				12.70								
对应英制尺寸 inch	1.460	2.14	1.045	0.500		3.20	1.500	1.080	0.30	0.14	1.50	

国际标准拉钉 A 型 ISO 7388/2-1984 International Standard Pull Stud A Type ISO 7388/2-1984



Model	d1	d2	d3	d4	d5	d7	L1	L2	L3	L5	L6	L10	S	重量 Weigh
LDA20	9	8.5	1.4	6		M8	26	12	9	2.5	3	2	10	
LDA25	10	9	12	7		M8	32	16	11.5	3.5	5	2.5	10	
LDA30	12	13	16	8		M12	44	24	19	4	5	2	14	0.036
LDA30/W					4.15									
LDA40	19	17	23	14		M16	54	26	20	4	7	2	19	0.084
LDA40/W					7									0.065
LDA45	23	21	30	17		M20	65	30	23	5	8	2	24	
LDA45/W					9.5									
LDA50	28	25	36	21		M24	74	34	25	5	10	2	30	0.261
LDA50/W					11.5									0.199
LDA60	40	32	52	30		M30	90	40	30	6	12	2	46	
LDA60/W					14									

国际标准拉钉 B 型 ISO 7388/2-1984 International Standard Pull Stud B Type ISO 7388/2-1984



Model	d1	d2	d3	d4	d5	d7	L1	L2	L3	L5	L6	L10	S	重量 Weigh
LDB30	13.35	13	16.5	9.3		M12	31.8	11.8	8.15	2.75	5	2.4	13	
LDB30/W					4.15									
LDB40	18.95	17	22.5	12.95		M16	44.4	16.4	11.15	3.25	7	3.5	18	0.069
LDB40/W					7.35									0.053
LDB45	24.05	21	30	16.3		M20	55.95	20.95	14.85	4.25	8	3.85	24	
LDB45/W					9.25									
LDB50	29.1	25	37	19.6		M24	65.55	25.55	17.95	5.25	10	4.85	30	0.234
LDB50/W					11.55									0.183
LDB60	37.25	32	50	24.95		M30	88.15	38.15	27.65	7.75	12	6.75	36	
LDB60/W					13.85									0.440

混合标准拉钉 CAT-BT Blended Standard Pull CAT-BT



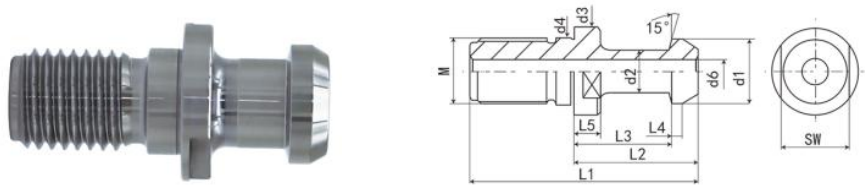
CT 美制螺纹拉钉 CT American Standard Screw Thread Pull Pullstud

Model	d1	d3	d4	d5	d7	L1	L2	L3	L5	L10	L11	S	α	重量 Weigh
CAT40-45° U	15	23	10		0.625"-11UNC	57	32.15	25.15	6	4	4	19	45°	0.069
CAT40-45° U/W				4										0.064
CAT40-60° U													60°	
CAT40-60° U/W				4										
CAT40-90° U													90°	
CAT40-90° U/W				4										
CAT50-45° U	23	38	17		1"-8UNC	78.22	45.2	35.2	10	5	8	30	45°	0.286
CAT50-45° U/W				8.5										0.230
CAT50-60° U													60°	
CAT50-60° U/W				8.5										
CAT50-90° U													90°	
CAT50-90° U/W				8.5										

CAT BT 公制螺纹拉钉 CAT-BT Metric Thread Pull Stud

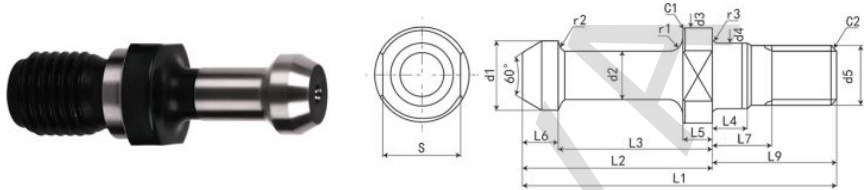
Model	d1	d2	d3	d4	d5	d6	L1	L2	L3	SW	α	重量 Weigh
CAT40*45°	15	10	23	17	M16		57	32	25	19	45°	0.07
CAT40*45° /W						4					45°	0.06
CAT40*60°											60°	0.07
CAT40*60° /W						4					60°	0.06
CAT40*90°											90°	0.07
CAT40*90° /W						4					90°	0.06
对应英制尺寸 inch	0.59	0.394	0.905	0.512		0.157	2.25	1.266	0.99	0.748		

日本 JIS B6339 拉钉 Japan JIS B6399 Pull Stud



Model	d1	d2	d3	d4	d5	d7	L1	L2	L3	L5	L6	L9	L11	S	重量 Weight
30P	12	12.5	16.5	8		M12	43	23.4	18.4	5	4	3	3.5	13	
30P/W					4										
35P	15	12.5	20	11		M12	44	24	19	5	4	3	3.5	17	
35P/W					5										
40P	19	17	23	14		M16	54	29	23	7	5	3	5	19	0.087
40P/W					7										0.071
45P	23	21	31	17		M20	60	30	23	7	6	4	5	24	
45P/W					8.5										
50P	28	25	38	21		M24	74	34	25	7	8	5	5	30	0.224
50P/W					10										
60P	36	31	48	27		M30	98	48	36	11	10	7	8	41	0.509
60P/W					12										

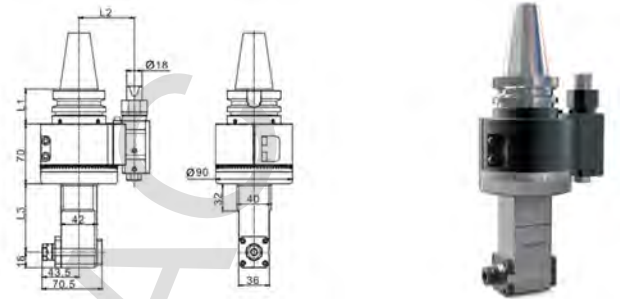
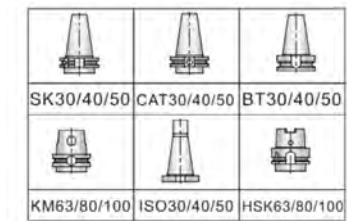
SR 拉钉 SR Pull Stud



Model	L1	d4 h7	d5 6g	C2	r3 (最大)	L4	L7	d3 0 -0.1	r1	L5 0 -0.1	s 0 -0.2	C1
S5R	23.5	5.5	M5	0.5	0.4	3	5	8	1	2.5	7	0.2
S10R	26.5	6.5	M6	0.5	0.4	3	5	10	1.5	3	8	0.3
S15R	32	8.5	M8	1	0.5	4	6	12	1.5	3.5	10	0.4
S20R	34.5	8.5	M8	1	0.5	4	6	14	1.8	4	10	0.5
S25R	40	10.5	M10	1	0.5	4	7	15.5	2	4.5	13	0.5
Model	d1 0 -0.1	d2 0 -0.1	L2 0 -0.1	L3 0 -0.1	L6	r2	φ		L3-L5	L9	CHUCK	
S5R	5.8	4	13.5	10.5	1.4	0.3	+0.5 0 15°	+0.5° 0 0°	8	10	S5T	
S10R	7	5	15.5	12	1.6	0.3			9	11	S10T	
S15R	8.3	6	18	14	1.9	0.4			10.5	14	S15T	
S20R	9.5	7	20.5	16	2.1	0.4			12	14	S20T	
S25R	10.8	8	23	18	2.3	0.5			13.5	17	S25T	

角度头 CNC Angle Heads

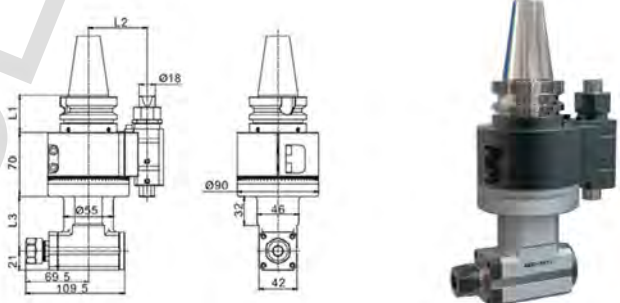
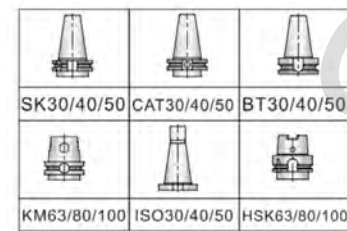
可选驱动刀柄型号: BT、NT、CAT、DAT、HSK



Model	exportation	L1	L2	L3	功率 power	最高转速 Maximum Speed	最高扭矩 Maximum torqua	减速比 Reduction ratio
AG90-ER11-80	ER11	41/48	65/80	80	1KW	4500RPM	6NM	1:1
AG90-ER11-140	ER11	41/48	65/80	140	1KW	4500RPM	6NM	1:1
AG90-ER11-200	ER11	41/48	65/80	200	1KW	4500RPM	6NM	1:1

角度头 CNC Angle Heads

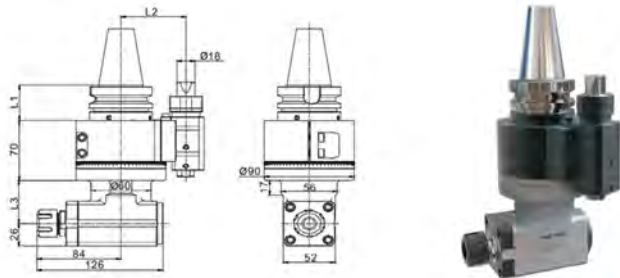
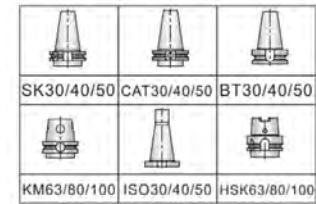
可选驱动刀柄型号: BT、NT、CAT、DAT、HSK



Model	exportation	L1	L2	L3	功率 power	最高转速 Maximum Speed	最高扭矩 Maximum torqua	减速比 Reduction ratio
AG90-ER16-60	ER16	41/48	65/80	60	1.5KW	4500RPM	12NM	1:1
AG90-ER16-120	ER16	41/48	65/80	120	1.5KW	4500RPM	12NM	1:1
AG90-ER16-180	ER16	41/48	65/80	180	1.5KW	4500RPM	12NM	1:1

角度头 CNC Angle Heads

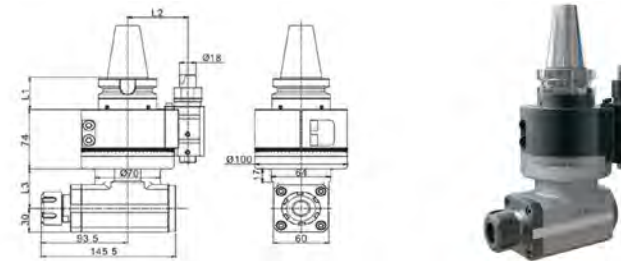
可选驱动刀柄型号: BT、NT、CAT、DAT、HSK



Model	exportation	L1	L2	L3	功率 power	最高转速 Maximum Speed	最高扭矩 Maximum torqua	减速比 Reduction ratio
AG90-ER20-50	ER20	41/48	65/80	50	2KW	4000RPM	16NM	1:1
AG90-ER20-110	FR20	41/48	65/80	110	2KW	4000RPM	16NM	1:1
AG90-ER20-170	ER20	41/48	65/80	170	2KW	4000RPM	16NM	1:1

角度头 CNC Angle Heads

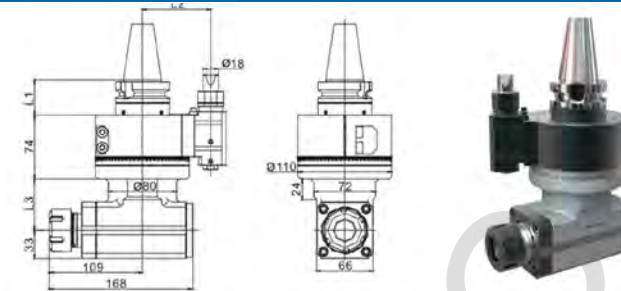
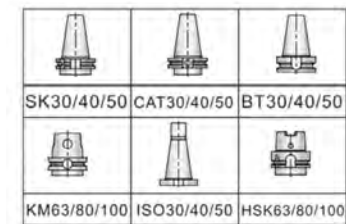
可选驱动刀柄型号: BT、NT、CAT、DAT、HSK



Model	exportation	L1	L2	L3	功率 power	最高转速 Maximum Speed	最高扭矩 Maximum torqua	减速比 Reduction ratio
AG90-ER25-50	ER25	41/48	65/80	50	3KW	4000RPM	32NM	1:1
AG90-ER25-110	ER25	41/48	65/80	110	3KW	4000RPM	32NM	1:1
AG90-ER25-170	ER25	41/48	65/80	170	3KW	4000RPM	32NM	1:1

角度头 CNC Angle Heads

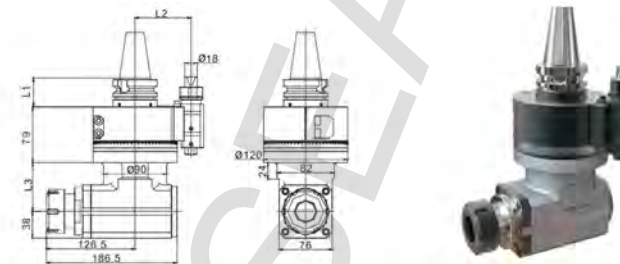
可选驱动刀柄型号: BT、NT、CAT、DAT、HSK



Model	exportation	L1	L2	L3	功率 power	最高转速 Maximum Speed	最高扭矩 Maximum torqua	减速比 Reduction ratio
AG90-ER32-60	ER32	41/48	80/110	60	4KW	3500RPM	40NM	1:1
AG90-ER32-130	ER32	41/48	80/110	130	4KW	3500RPN	40NM	1:1
AG90-ER32-200	ER32	ER32	80/110	200	4KW	3500RPN	40NM	1:1

角度头 CNC Angle Heads

可选驱动刀柄型号: BT、NT、CAT、DAT、HSK

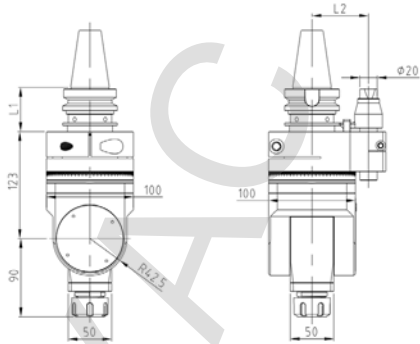
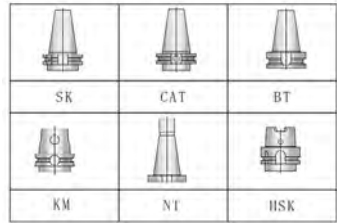


Model	exportation	L1	L2	L3	功率 power	最高转速 Maximum Speed	最高扭矩 Maximum torqua	减速比 Reduction ratio
AG90-ER40-70	ER32	41/48	80/110	70	6KW	3000RPM	75NM	1:1
AG90-ER40-150	ER32	41/48	80/110	150	6KW	3000RPM	75NM	1:1
AG90-ER40-230	ER32	41/48	80/110	230	6KW	3000RPM	75NM	1:1

角度头 CNC Angle Heads

AGMU-ER25 系列

可选用驱动刀柄: SK, CAT, BT, KM, NT, HSK等

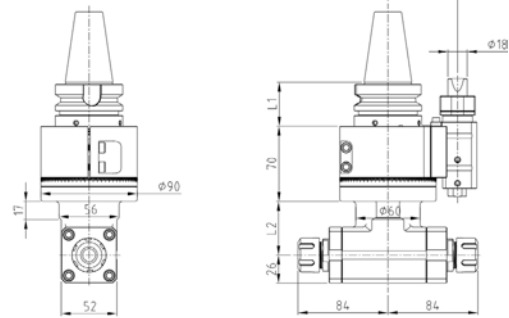
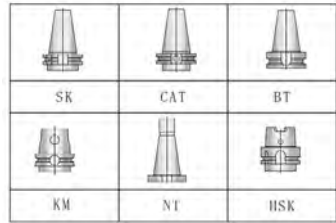


Model	输出 exportation	L1	L2	功率 power	最高转速 Maximum Speed	最高扭矩 Maximum torqua	转速比 Reduction ratio
AGMU-ER25	ER25	51/58	65/80	3Kw	3500RPM	32Nm	1:1

角度头 CNC Angle Heads

AG90-ER20*2 系列

可选用驱动刀柄: SK, CAT, BT, KM, NT, HSK等

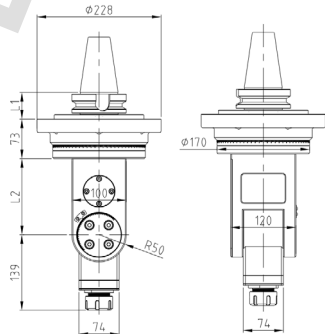
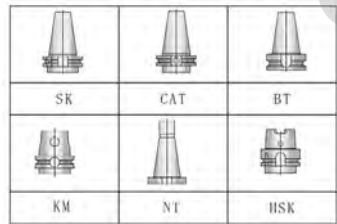


Moel	输出 exportation	L1	L2	L3	功率 power	最高转速 Maximum Speed	最高扭矩 Maximum torqua	转速比 Reduction ratio
AG90-ER20x2-50	ER20	41/48	65/80	50	2Kw	4500RPM	18Nm	1:1
AG90-ER20x2-110	ER20	41/48	65/80	110	2Kw	4500RPM	18Nm	1:1
AG90-ER20x2-170	ER20	41/48	65/80	170	2Kw	4500RPM	18Nm	1:1

角度头 CNC Angle Heads

AGU-ER32 系列

可选用驱动刀柄: SK, CAT, BT, KM, NT, HSK等

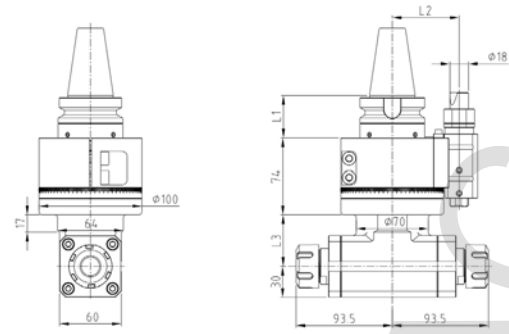
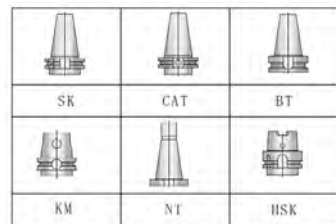


Moel	输出 exportation	L1	L2	L3	功率 power	最高转速 Maximum Speed	最高扭矩 Maximum torqua	转速比 Reduction ratio
AGU-ER32-140	ER32	42/49	140	60	4Kw	3500RPM	45Nm	1:1
AGU-ER32-220	ER32	42/49	220	130	4Kw	3500RPM	45Nm	1:1
AGU-ER32-300	ER32	42/49	300	200	4Kw	3500RPM	45Nm	1:1

角度头 CNC Angle Heads

AG90-ER25*2 系列

可选用驱动刀柄: SK, CAT, BT, KM, NT, HSK等

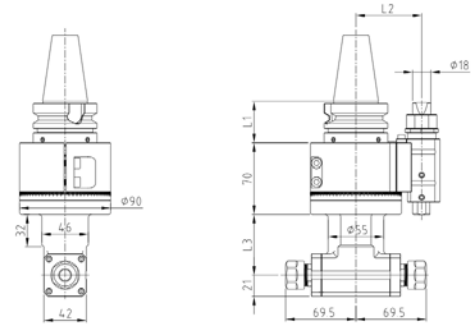
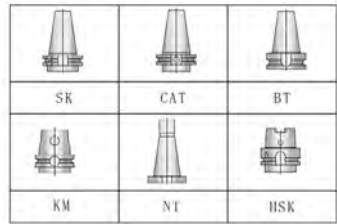


Moel	输出 exportation	L1	L2	L3	功率 power	最高转速 Maximum Speed	最高扭矩 Maximum torqua	转速比 Reduction ratio
AG90-ER25x2-50	ER25	41/48	65/80	50	3Kw	4500RPM	32Nm	1:1
AG90-ER25x2-120	ER25	41/48	65/80	120	3Kw	4500RPM	32Nm	1:1
AG90-ER25x2-170	ER25	41/48	65/80	170	3Kw	4500RPM	32Nm	1:1

角度头 CNC Angle Heads

AG90-ER16*2 系列

可选用驱动刀柄: SK, CAT, BT, KM, NT, HSK等

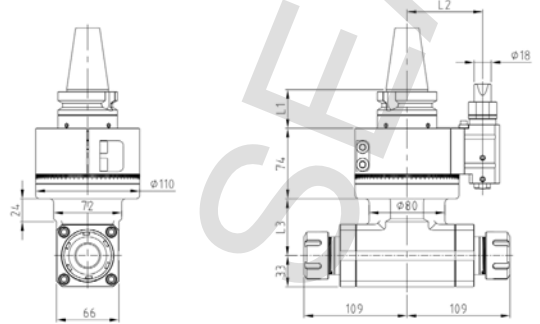
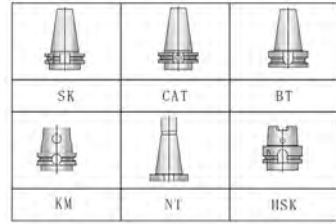


Moel	输出 exportation	L1	L2	L3	功率 power	最高转速 Maximum Speed	最高扭矩 Maximum torqua	转速比 Reduction ratio
AG90-ER16x2-60	ER16	41/48	65/80	60	1.5Kw	4500RPM	12Nm	1:1
AG90-ER16x2-120	ER16	41/48	65/80	120	1.5Kw	4500RPM	12Nm	1:1
AG90-ER16x2-180	ER16	41/48	65/80	180	1.5Kw	4500RPM	12Nm	1:1

角度头 CNC Angle Heads

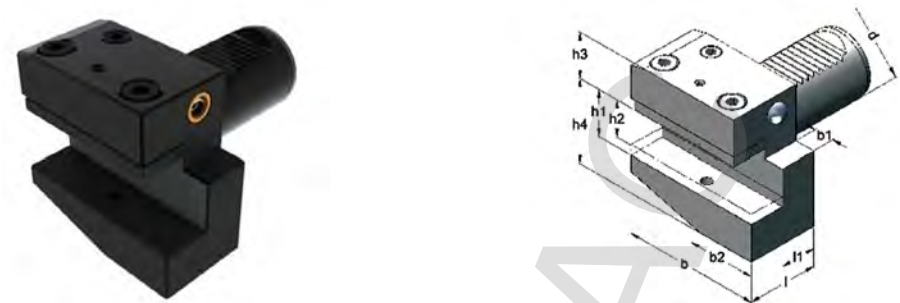
AG90-ER32*2 系列

可选用驱动刀柄: SK, CAT, BT, KM, NT, HSK等



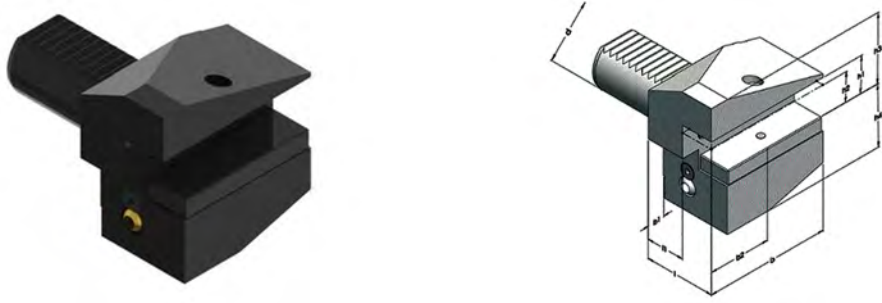
Moel	输出 exportation	L1	L2	L3	功率 power	最高转速 Maximum Speed	最高扭矩 Maximum torqua	转速比 Reduction ratio
AG90-ER32x2-60	ER32	41/48	80	60	4Kw	3500RPM	45Nm	1:1
AG90-ER32x2-130	ER32	41/48	80	130	4Kw	3500RPM	45Nm	1:1
AG90-ER32x2-200	ER32	41/48	80	200	4Kw	3500RPM	45Nm	1:1

径向外径右手型固定刀座 (B1 型式)
Radial outer diameter right-hand fixed tool holder (B1 type)



Model	d	b	b1	b2	h1	h2	h3	h4		11	Ref.No
THA-B1-3020	30	70	10	35	20	16	28	38	40	22	B1-30*20*40
THA-B1-4025	40	85	12.5	42.5	25	20	32.5	48	44	22	B1-40*25*44
THA-B1-5032	50	100	16	50	32	25	35	60	55	30	B1-50*32*55

径向外径左手型固定刀座 (B4 型式)
Radial outer diameter left-hand fixed tool holder (B4 type)



Model	d	b	b1	b2	h1	h2	h3	h4	l	11	Ref.No
THA-B4-3020	30	70	10	35	20	16	38	28	40	22	B4-30*20*40
THA-B4-4025	40	85	12.5	42.5	25	20	48	32.5	44	22	B4-40*25*44
THA-B4-5032	50	100	16	50	32	25	60	38	55	30	B4-50*32*55

径向外径左手型固定刀座 (B2 型式)
Radial outer diameter left-hand fixed tool holder (B2 type)



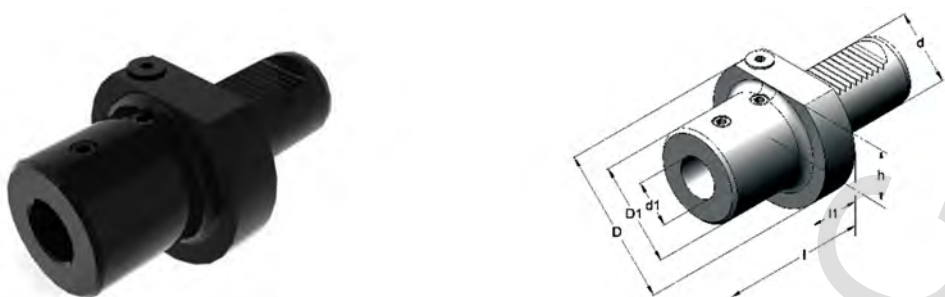
Model	d	b	b1	b2	h1	h2	h3	h4	l	11	Ref.No
THA-B2-3020	30	70	10	35	20	16	28	38	40	22	B2-30*20*40
THA-B2-4025	40	85	12.5	42.5	25	20	32.5	48	44	22	B2-40*25*44
THA-B2-5032	50	100	16	50	32	25	35	60	55	30	B2-50*32*55

径向外径右手型固定刀座 (B3 型式)
Radial outer diameter right-hand fixed tool holder (B3 type)



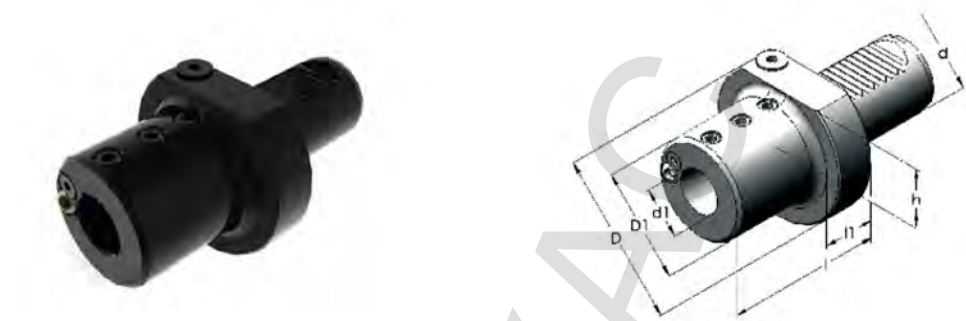
Model	d	b	b1	b2	h1	h2	h3	h4	l	11	Ref.No
THA-B3-3020	30	70	10	35	20	16	38	40	40	22	B3-30*20*40
THA-B3-4025	40	85	12.5	42.5	25	20	48	44	44	22	B3-40*25*44
THA-B3-5032	50	100	16	50	32	25	60	55	55	30	B3-50*32*55

内径 U Drill 固定刀座 (E1 型式)
Internal diameter U Drill fixed tool holder (E1 type)



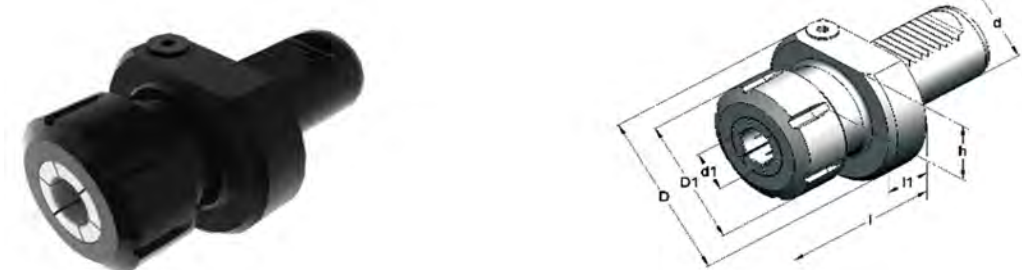
Model	d	d1	D	D1	l	h	11	Ref.No.
THB-E1-3016	30	16	68	34	66	28	22	E1-30*16
THB-E1-3020	30	20	68	40	66	28	22	E1-30*20
THB-E1-3025	30	25	68	45	71	28	22	E1-30*25
THB-E1-3032	30	32	68	52	75	28	22	E1-30*32
THB-E1-4016	40	16	83	34	66	32.5	22	E1-40*16
THB-E1-4020	40	20	83	40	66	32.5	22	E1-40*20
THB-E1-4025	40	25	83	45	71	32.5	22	E1-40*25
THB-E1-4032	40	32	83	52	75	32.5	22	E1-40*32
THB-E1-4040	40	40	83	60	85	32.5	22	E1-40*40
THB-E1-5020	50	20	98	40	66	35	30	E1-50*20
THB-E1-5025	50	25	98	45	71	35	30	E1-50*25
THB-E1-5032	50	32	98	52	75	35	30	E1-50*32
THB-E1-5040	50	40	98	60	85	35	30	E1-50*40
THB-E1-5050	50	50	98	70	95	35	30	E1-50*50

内孔侧固式固定刀座 (E2 型式)
Inner hole side fixed fixed tool holder (E2 type)



Model	d	d1	D	D1	h	l	l1	Ref.No.
THB-E2-3008	30	8	68	55	28	60	22	E2-30*08
THB-E2-3010	30	10	68	55	28	60	22	E2-30*10
THB-E2-3012	30	12	68	55	28	60	22	E2-30*12
THB-E2-3016	30	16	68	55	28	60	22	E2-30*16
THB-E2-3020	30	20	68	55	28	60	22	E2-30*20
THB-E2-3025	30	25	68	55	28	60	22	E2-30*25
THB-E2-3032	30	32	68		28	75		E2-30*32
THB-E2-4008	40	8	83	55	32.5	75	22	E2-40*08
THB-E2-4010	40	10	83	55	32.5	75	22	E2-40*10
THB-E2-4012	40	12	83	55	32.5	75	22	E2-40*12
THB-E2-4016	40	16	83	55	32.5	75	22	E2-40*16
THB-E2-4020	40	20	83	55	32.5	75	22	E2-40*20
THB-E2-4025	40	25	83	55	32.5	75	22	E2-40*25
THB-E2-4032	40	32	83		32.5	75		E2-40*32
THB-E2-4040	40	40	83		32.5	75		E2-40*40
THB-E2-5020	50	20	98	68	35	90	30	E2-50*20
THB-E2-5025	50	25	98	68	35	90	30	E2-50*25
THB-E2-5032	50	32	98	68	35	90	30	E2-50*32
THB-E2-5040	50	40	98		35	90		E2-50*40
THB-E2-5050	50	50	98		35	100		E2-50*50

内孔 ER 筒夹式固定刀座 (E4 型式)
Inner hole ER Collet Type Fixed tool Holder (E4 Type)



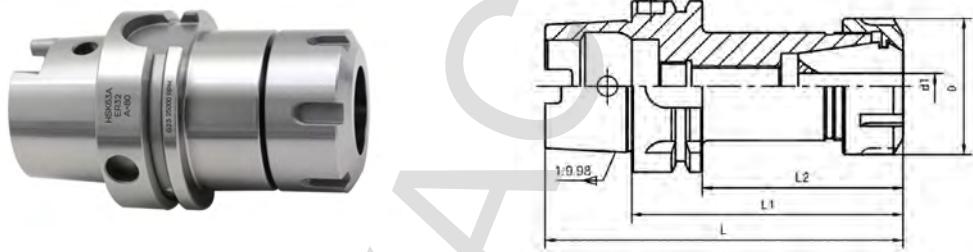
Model	d	d1	D	D1	h	l	l1	ER	Ref.No.
THB-E4-3032	30	2-20	68	50	28	75	22	32	E4-30*32
THB-E4-3040	30	3-26	68	63	28	75	22	40	E4-30*40
THB-E4-4032	40	2-20	83	50	32.5	75	22	32	E4-40*32
THB-E4-4040	40	3-26	83	63	32.5	75	22	40	E4-40*40
THB-E4-5040	50	3-26	98	63	35	90	30	40	E4-50*40
THB-E4-5050	50	10-34	98	78	35	90	30	50	E4-50*50

主轴拉力计 Spindle force gauge



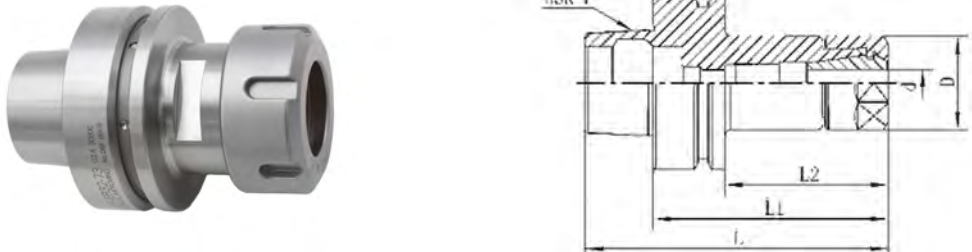
主轴拉力计是一款用于测量拉杆拉力大小的仪器，拉杆拉力对于评估机器质量是非常重要的，检测主轴拉力是否消耗，对于设备主轴稳定的一种简单方便的液压检测仪器。
The spindle tension meter is an instrument used to measure the tension of the tie rod.The tension of therailing is very important to evaluate the quality of the machine. It is a simple and convenient hydraulictesting instrument for the stability of the equipment spindle to detect whether the tension of the spindle is

Model	测量范围 Measuring range	参考拉力范围 Reference tension range	包装重量 weight
BT30	0-50kg/cm 2	200-500	4.3
BT40	0-150kg/cm 2	500-1000	4.5
BT50	0-350kg/cm 2	1500-2200	6.8



- 装入筒夹和更换刀具，必须把螺帽和本体螺纹清理干净，并添加润滑脂，否则会造成螺纹损坏
- 装置时筒夹必须先置入螺帽，再装入刀具，接着锁紧本体
- 刀具置入筒夹内孔，必需超出筒夹有效夹持长度，避免不当锁紧，造成损坏
- A collet and replacement of cutting tools, screw nut and body must be clean, and add grease, Otherwise it will cause damage to the thread
- The device must be placed when the collet nut, and then into the tool, then the lock body
- The placement tool collet hole, clamping collet must exceed effective length, to avoid improper locking dama

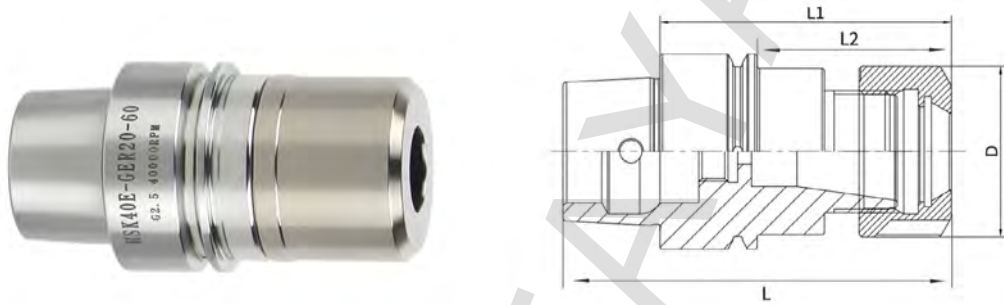
	Model	L	L1	L2	D	d
HSK63A	ER16-75	107	75	49	28	1 ~ 10
	ER16-100	132	100	74	28	1 ~ 10
	ER16-130	162	130	104	28	1 ~ 10
	ER16-160	192	160	134	28	1 ~ 10
	ER20-75	107	75	49	34	1 ~ 13
	ER20-100	132	100	74	34	1 ~ 13
	ER20-130	162	130	104	34	1 ~ 13
	ER20-160	192	160	134	34	1 ~ 13
	ER25-75	107	75	49	42	3 ~ 16
	ER25-100	132	100	74	42	3 ~ 16
	ER25-130	162	130	104	42	3 ~ 16
	ER25-160	192	160	134	42	3 ~ 16
	ER32-75	107	75	49	50	3 ~ 20
	ER32-100	132	100	74	50	3 ~ 20
	ER32-130	162	130	104	50	3 ~ 20
	ER32-160	192	160	134	50	3 ~ 20
	ER40-120	152	120	94	63	3 ~ 26
	ER40-160	192	160	134	63	3 ~ 26
HSK100A	ER16-100	150	100	71	28	1 ~ 10
	ER16-160	210	160	131	28	1 ~ 10
	ER20-100	150	100	71	34	1 ~ 13
	ER20-160	210	160	131	34	1 ~ 13
	ER25-100	150	100	71	42	3 ~ 16
	ER25-160	210	160	131	42	3 ~ 16
	ER32-100	150	100	71	50	3 ~ 20
	ER32-160	210	160	131	50	3 ~ 20
	ER40-100	150	100	71	63	3 ~ 26
	ER40-160	210	160	131	63	3 ~ 26



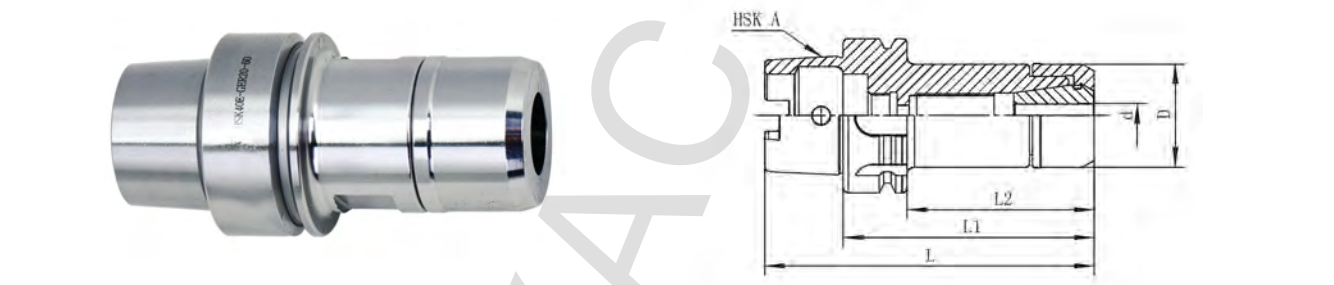
- 装入筒夹和更换刀具，必须把螺帽和本体螺纹清理干净，并添加润滑脂，否则会造成螺纹损坏
- 装置时筒夹必须先置入螺帽，再装入刀具，接着锁紧本体
- 刀具置入筒夹内孔，必需超出筒夹有效夹持长度，避免不当锁紧，造成损坏
- A collet and replacement of cutting tools, screw nut and body must be clean, and add grease, Otherwise it will ause damage tothe thread
- The device must be placed when the collet nut, and then into the tool, then the lock body
- The placement tool collet hole, clamping collet must exceed effective length, to avoid improper locking dama

	Model	L	L1	L2	D	d
HSK63F	ER16-75	100	75	49	28	1 ~ 10
	ER16-100	125	100	74	28	1 ~ 10
	ER20-75	100	75	49	34	1 ~ 13
	ER20-100	125	100	74	34	1 ~ 13
	ER25-75	100	75	49	42	3 ~ 16
	ER25-100	125	100	74	42	3 ~ 16
	ER32-80	105	80	54	50	3 ~ 20
	ER32-100	125	100	74	50	3 ~ 20
	ER40-80	105	80	54	63	3 ~ 26
	ER40-100	125	100	74	63	3 ~ 26

HSK-GER 不锈钢刀柄 HSK-GER Stainless Steel Tool Holder



	Model	L	L1	L2	D	Clamping Range
HSK32E	GER16	66	50	30	27.5	1-10
	GER20	66	50	30	30.5	1-13
HSK40E	GER16	85	65	45	27.5	1-10
	GER20	85	65	45	30.5	1-13
	GER25	90	70	50	30.5	1-16
HSK50E	GER16	95	70	44	27.5	1-10
	GER20	95	70	44	30.5	1-13
	GER25	95	70	44	35.5	3-16

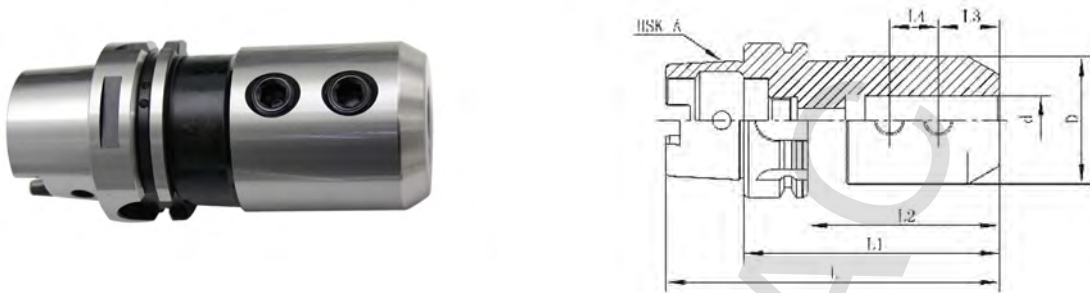


- 装入筒夹和更换刀具，必须把螺帽和本体螺纹清理干净，并添加润滑脂，否则会造成螺纹损坏
- 全圆无偏心螺帽设计，噪音低、风阻小，适合高速
- Into the collet and replacement of cutting tools, must clean up the thread of nut and ontology, and add grease, otherwise it will cause damage to the screw thread
- Full circle - no eccentric nut design, low noise, small wind resistance, suitable for high speed

Model		L	L1	L2	D	d(夹持范围)
HSK63A	GER16-75	102	75	49	27.5	1 ~ 10
	GER16-100	132	100	74	27.5	1 ~ 10
	GER16-130	162	130	104	27.5	1 ~ 10
	GER16-160	192	160	134	27.5	1 ~ 10
	GER20-75	102	75	49	30.5	1 ~ 13
	GER20-100	132	100	74	30.5	1 ~ 13
	GER20-130	162	130	104	30.5	1 ~ 13
	GER20-160	192	160	134	30.5	1 ~ 13
	GER25-75	102	75	49	35.5	3 ~ 16
	GER25-100	132	100	74	35.5	3 ~ 16
	GER25-130	162	130	104	35.5	3 ~ 16
	GER25-160	192	160	134	35.5	3 ~ 16
	GER32-75	102	75	49	48.5	3 ~ 20
	GER32-100	132	100	74	48.5	3 ~ 20
	GER32-130	162	130	104	48.5	3 ~ 20
	GER32-160	192	160	134	48.5	3 ~ 20

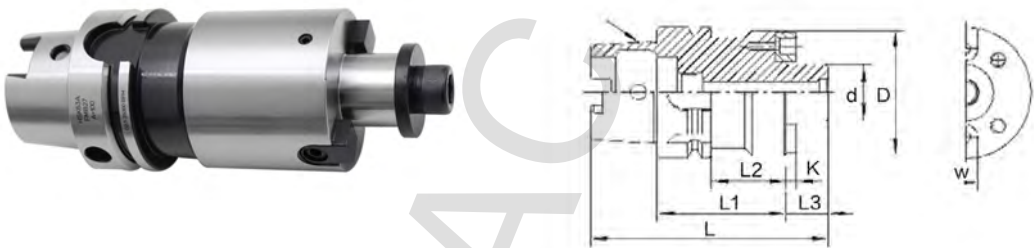
Model		L	L1	L2	D	d(夹持范围)
HSK32E	GER16-50	66	50	30	27.5	1 ~ 10
	GER20-50	66	50	30	30.5	1 ~ 13
HSK40E	GER16-65	85	65	45	27.5	1 ~ 10
	GER20-65	85	65	45	30.5	1 ~ 13
	GER25-70	90	70	50	35.5	3 ~ 16
HSK50E	GER16-70	95	70	44	27.5	1 ~ 10
	GER20-70	95	70	44	30.5	1 ~ 13
	GER25-70	95	70	44	35.5	3 ~ 16

HSK-A-SLN 数控刀柄 HSK-A-SLN Tool Holders



- 夹持孔径公差 H5
- $\Phi 20$ 以内一只锁固螺钉， $\Phi 25$ 以上两只锁固螺钉
- The clamping hole tolerance H5
- With less than 20 mm a locking screw, with a diameter of 25 mm above two locking screw

Model		L	L1	L2	L3	L4	D	d
HSK63A	SLN06-65	97	65	39	12	10	25	6
	SLN08-65	97	65	39	14	12	28	8
	SLN10-65	97	65	39	15	14	35	10
	SLN12-80	112	80	54	20	16	42	12
	SLN16-80	112	80	54	22	18	48	16
	SLN20-80	112	80	54	25	20	52	20
	SLN25-110	142	110	84	24	25	57	25
	SLN32-110	142	110	84	24	28	63	32



- 平面铣刀配合部位 (d) 轴系公差 h6
- The face milling cutter with parts (d) shaft tolerance h6

Model		L	L1	L2	L3	d	D	K	W
HSK63A	FMB16-50	99	50	24	17	16	32	3.8	8
	FMB16-100	149	100	74	17	16	32	3.8	8
	FMB22-50	100	50	24	18	22	48	4.8	10
	FMB22-100	150	100	74	18	22	48	4.8	10
	FMB27-60	112	60	44	20	27	60	5.8	12
	FMB27-100	152	100	74	20	27	60	5.8	12
	FMB32-60	114	60	44	22	32	63	6.8	14
	FMB32-100	154	100	74	22	32	63	6.8	14
	FMB40-60	117	60	44	25	40	75	8.3	16

HSK-A-C 强力刀柄 HSK-A-C Power Miling Chucks



- 刀柄夹持孔 6 槽设计、防止滑动、增大夹持力
- 螺帽外表均匀一致、降低风阻、适合高速
- Handle clamping hole 6 to prevent sliding groove design increases the blessing
- The appearance of nut uniformity, reduce wind resistance, suitable for high speed

Model		L	L1	L2	D	d
HSK63A	C32-120	152	120	94	73	6-32
	C32-150	182	150	124	73	6-32
HSK100A	C32-120	170	120	91	73	6-32
	C32-165	215	165	136	73	6-32



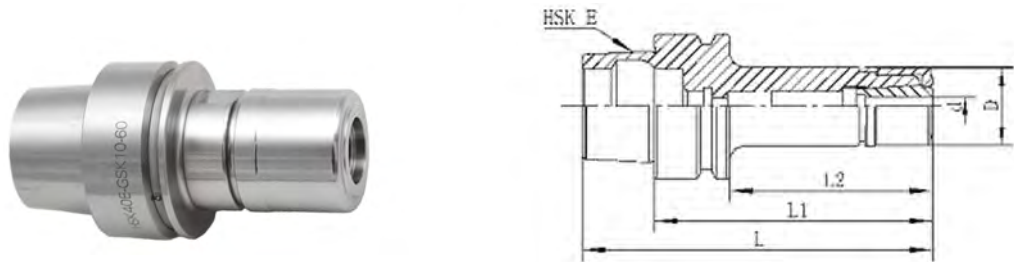
- 无螺帽的后拉式筒夹设计，刚性稳定性高。
- 建议使用扭力扳手，不要超过推荐值的 30%，过高的扭力，可能导致刀柄的变形。
- Collet nut design no pull, strong stability and high rigidity
- The recommended torque wrench, do not exceed the recommended value of 30%, high torque, the deformation may lead

Model		L1	L2	θ	D	d(夹持范围)	推荐扭力
HSK63A	SDC6-95	127	95	6°	14	3 ~ 6	5Nm
	SDC6-120	152	120	6°	14	3 ~ 6	5Nm
	SDC6-150	182	150	6°	14	3 ~ 6	5Nm
	SDC8-100	132	100	6°	22	3 ~ 8	7Nm
	SDC8-120	152	120	6°	22	3 ~ 8	7Nm
	SDC8-150	182	150	6°	22	3 ~ 8	7Nm
	SDC12-120	152	120	—	34	3 ~ 12	12Nm
	SDC12-150	182	150	—	34	3 ~ 12	12Nm
HSK100A	SDC6-110	160	110	6°	14	3 ~ 6	5Nm
	SDC6-150	200	150	6°	14	3 ~ 6	5Nm
	SDC8-120	170	120	6°	22	3 ~ 8	7Nm
	SDC8-150	200	150	6°	22	3 ~ 8	7Nm
	SDC12-120	170	120	—	34	3 ~ 12	12Nm



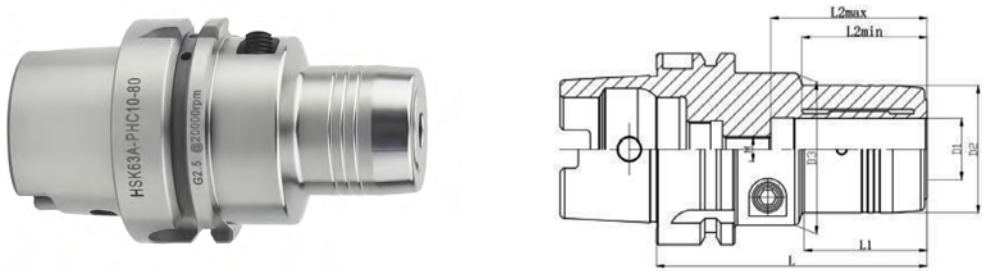
Model		L	L1	L2	D	Clamping Range
HSK32E	SK06	66	50	30	19.5	2-6
	SK10	66	50	30	27.5	3-10
HSK40E	SK06	85	65	35	19.5	2-6
	SK10	85	65	35	27.5	3-10
	SK16	120	100	80	27.5	3-10
HSK50E	SK06	95	70	44	19.5	2-6
	SK10	95	70	44	27.5	3-10
	SK16	95	70	44	40.5	3-16

HSK-E-GSK 数控刀柄 HSK-E-GSK Tool Holders

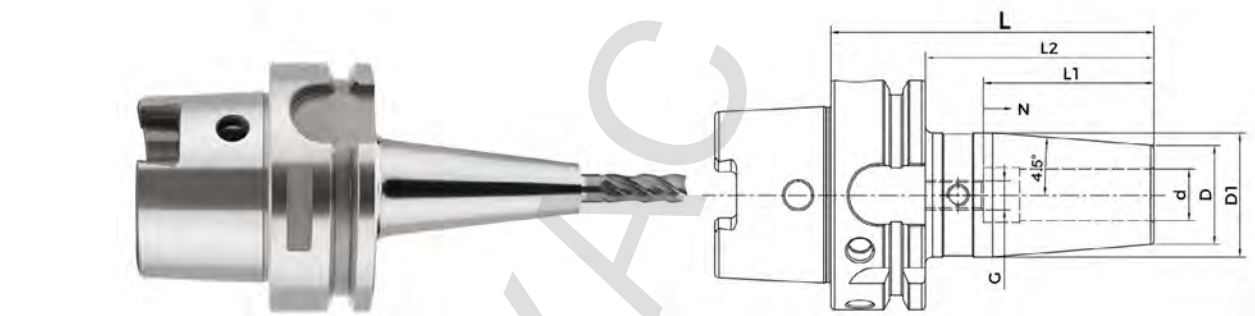


- 装入筒夹和更换刀具，必须把螺帽和本体螺纹清理干净，并添加润滑脂，否则会造成螺纹损坏
- 全圆无偏心螺帽设计，噪音低、风阻小，适合高速
- Into the collet and replacement of cutting tools, must clean up the thread of nut and ontology, and add grease, otherwise it will cause damage to the screw thread
- Full circle - no eccentric nut design, low noise, small wind resistance, suitable for high speed

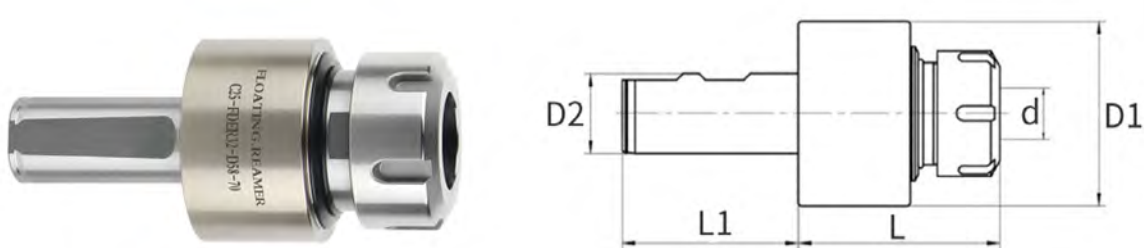
Model		L	L1	L2	D	d
HSK32E	GSK06-50	66	50	30	19.5	2~6
	GSK10-50	66	50	30	27.5	3 ~ 10
HSK40E	GSK06-65	85	65	35	19.5	2~6
	GSK10-65	85	65	35	27.5	3 ~ 10
	GSK10-100	120	100	80	27.5	3 ~ 10
HSK50E	GSK06-70	95	70	44	19.5	2~6
	GSK10-70	95	70	44	27.5	3 ~ 10
	GSK16-70	95	70	44	40.5	3~16



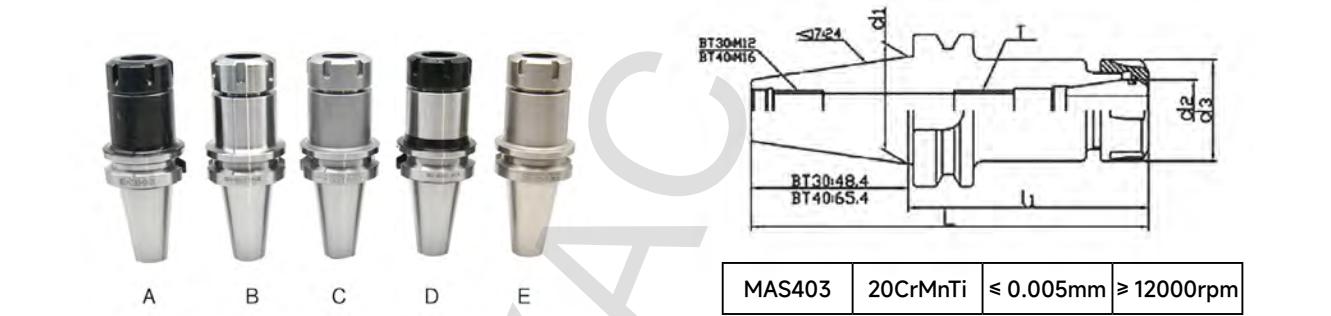
Model	D1	D2	D3	L	L1	L2min	L2max	M
HSK40E-PHC06-70L	6	28	34	70	33	26	39	M5
HSK40E-PHC08-70L	8	30	34	70	33	28	39	M5
HSK40E-PHC10-75L	10	32	34	75	39	34	45	M5
HSK40E-PHC12-80L	12	34	34	80	-	-	-	M5
HSK50E-PHC06-70L	6	30	42	70	25.5	26	38	M5
HSK50E-PHC08-70L	8	32	42	70	26	28	38	M6
HSK50E-PHC10-80L	10	34	42	80	32	34	45	M8
HSK50E-PHC12-85L	12	36	42	85	40	37	50	M8
HSK50E-PHC16-90L	16	40	42	90	43	41	51	M8
HSK50E-PHC20-90L	20	42	42	90	64	41	52	M8
HSK63A-PHC-06-80L	6	32	48	80	32	29	46	M5
HSK63A-PHC-06-125L	6	32	48	125	38.5	28	44.5	M5
HSK63A-PHC-08-80L	8	34	50	80	32	29	46	M6
HSK63A-PHC08-125L	8	32	48	125	38.5	28	44.5	M6
HSK63A-PHC-10-80L	10	36	50	80	32	31	50	M8
HSK63A-PHC10-125L	10	36	50	125	40	37	51	M8
HSK63A-PHC-12-80L	12	38	50	80	32	32	50	M8
HSK63A-PHC12-125L	12	38	50	125	41	37	51	M8
HSK63A-PHC-14-80L	14	40	50	80	40	38	50	M8
HSK63A-PHC-16-90L	16	42	50	90	41	40	51	M8
HSK63A-PHC16-125L	16	42	50	125	43	40	52	M8
HSK63A-PHC-18-90L	18	42	50	90	41	40	51	M8
HSK63A-PHC-20-90L	20	42	50	90	41	40	52.5	M8
HSK63A-PHC20-125L	20	44	50	125	45	40	52.5	M8
HSK63A-PHC-25-110L	25	53	63	110	55.5	45	61	M8
HSK63A-PHC-32-110L	32	63	63	110	-	55	65	M8
HSK100A-PHC-20-105L	20	46	60	105	45	39	53	M12
HSK100A-PHC-25-110L	25	53	63	110	55	40	53	M12
HSK100A-PHC-32-110L	32	62	75	110	55	44	53	M12



Size	d	D	D1	L	L2	L1	N	G
HSK40A-SF03-60	3	27	34	80	58	50	10	M12x1
HSK40A-SF04-60	4	33	42	80	58	50	10	M12x1
HSK40A-SF05-60	5	33	42	80	58	52	10	M16x1
HSK40A-SF06-60	6	15	20	80	53			
HSK40A-SF08-60	8	15	20	80	53			
HSK40A-SF10-60	10	15	20	80	53			
HSK40A-SF12-60	12	21	27	90	63	36		M5
HSK40A-SF14-60	14	21	27	90	63	36		M6
HSK40A-SF16-60	1G	24	32	90	63	42	10	M8x1
HSK50A-SF03-80	3	15	20	80	54			
HSK50A-SF04-80	4	15	20	80	54			
HSK50A-SFO5-80	5	15	20	80	54			
HSK50A-SF06-80	6	21	27	80	54	36	10	M5
HSK50A-SF08-80	8	21	27	80	54	36	10	M6
HSK50A-SF10-80	10	24	32	85	59	42	10	M8x1
HSK50A-SF12-80	12	24	32	90	64	47	10	M10x1
HSK50A-SF14-80	14	27	34	90	64	47	10	M10x1
HSK50A-SF16-80	16	27	34	95	69	50	10	M12x1
HSK50A-SF18-80	18	33	42	95	69	50	10	M12x1
HSK50A-SF20-80	20	33	42	100	74	52	10	M16x1



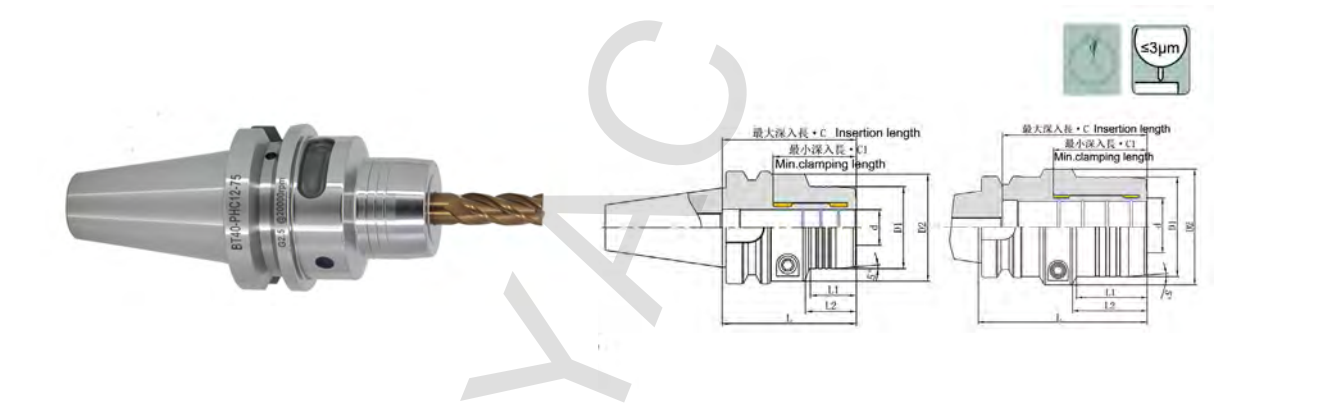
Model	D1	D2	L	L1	Collets	Clamping
C16-FDER11A-50-D30	30	16	50	50	ER11	1-7mm
C20-FDER11A-50-D30	30	20	50	50	ER11	
C16-FDER11M-50-D30	30	16	50	50	ER11	
C20-FDER11M-50-D30	30	20	50	50	ER11	
C16-FDER16A-65-D39	39	16	65	50	ER16	1-10mm
C20-FDER16A-65-D39	39	20	65	50	ER16	
C25-FDER16A-65-D39	39	25	65	55	ER16	
C16-FDER16M-65-D39	39	16	65	50	ER16	
C20-FDER16M-65-D39	39	20	65	55	ER20	
C25-FDER16M-65-D39	39	25	65	50	ER20	
C20-FDER20A-60-D45	45	20	65	50	ER20	1-13mm
C25-FDER20A-60-D45	45	25	65	55	ER20	
C20-FDER20M-60-D45	45	20	65	50	ER20	
C25-FDER20M-60-D45	45	25	65	55	ER20	
C20-FDER20A-75-D56	56	20	75	50	ER20	
C25-FDER20A-75-D56	56	20	75	55	ER20	
C20-FDER20M-75-D56	56	25	75	50	ER20	
C25-FDER20M-75-D56	56	20	75	55	ER20	
C20-FDER25-75-D56	56	20	75	50	ER25	1-16mm
C25-FDER25-75-D56	56	25	75	55	ER25	
C20-FDER32-75-D56	58	20	75	50	ER32	1-20mm
C25-FDER32-75-D56	58	25	75	55	ER32	



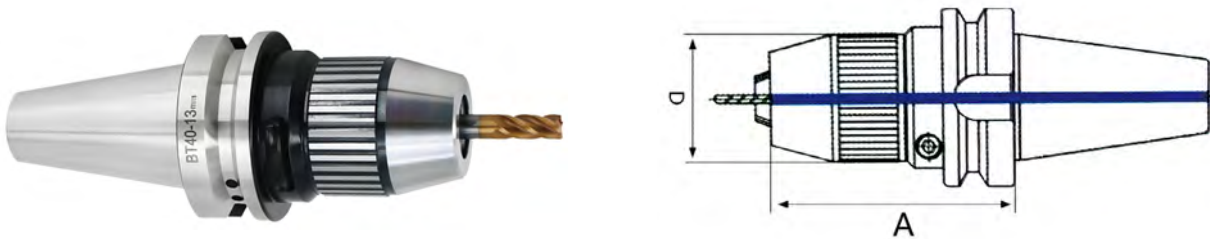
Model	L1	d3	d1
BT30-ER11A-70	70	19	31.75
BT30-ER16A-70	70	28	31.75
BT30-ER20A-70	70	34	31.75
BT30-ER25UM-70	70	42	31.75
BT30-ER32UM-100	100	50	31.75
BT40-ER11A-100	100	19	44.45
BT40-ER16A-100	100	28	44.45
BT40-ER20A-100	100	34	44.45
BT40-ER25UM-100	100	42	44.45
BT40-ER32UM-70	70	50	44.45
BT40-ER32UM-100	100	50	44.45
BT40-ER32UM-150	150	50	44.45
BT40-ER40UM-80	80	63	44.45
BT40-ER40UM-100	100	63	44.45
BT50-ER16A-100	100	28	69.85
BT50-ER16A-150	150	28	69.85
BT50-ER20A-150	150	34	69.85
BT50-ER25UM-150	150	42	69.85
BT50-ER32UM-100	100	50	69.85
BT50-ER32UM-150	150	50	69.85
BT50-ER40UM-100	100	63	69.85
BT50-ER40UM-150	150	63	69.85



Model	Qty.&Sizes	Bar Thread
BT30-ER16-70L	8PCS(3-10mm)	M12-1.75P
BT30-ER32-70L	6PCS(6-20mm)	M12-1.75P
	11PCS(4-20mm)	
	18PCS(3-20mm)	
BT40-ER32-70L	6PCS(6-20mm)	M16-2.0P
	11PCS(4-20mm)	
	18PCS(3-20mm)	
BT40-ER40-80L	7PCS(6-25mm)	M16-2.0P
	15PCS(4-26mm)	
	23PCS(4-26mm)	
BT40-ER16-100L	8PCS(3-10mm)	M12-1.75P
BT40-ER20-100L	11PCS(3-13mm)	M12-1.75p
BT40-ER32-100L	6PCS(6-20mm)	M16-2.0F
	11PCS(4-20mm)	
	18PCS(3-20mm)	
BT40-ER40-100L	7PCS(6-25mm)	M16-2.0P
	15PCS(4-26mm)	
	23PCS(4-26mm)	
BT50-ER40-100L	6PCS(6-20mm)	M24-3.0P
	11PCS(4-20mm)	
	18PCS(3-20mm)	
BT50-ER40-100L	7PCS(6-25mm)	M24-3.0P
	15PCS(4-26mm)	
	23PCS(4-26mm)	
BT50-ER32-150	6PCS(6-20mm)	M24-3.0P
	11PCS(4-20mm)	
	PCS(183-20mm)	
BT50-ER40-150L	7PCS(6-25mm)	M24-3.0P
	15PCS(4-26mm)	
	23PCS(4-26mm)	



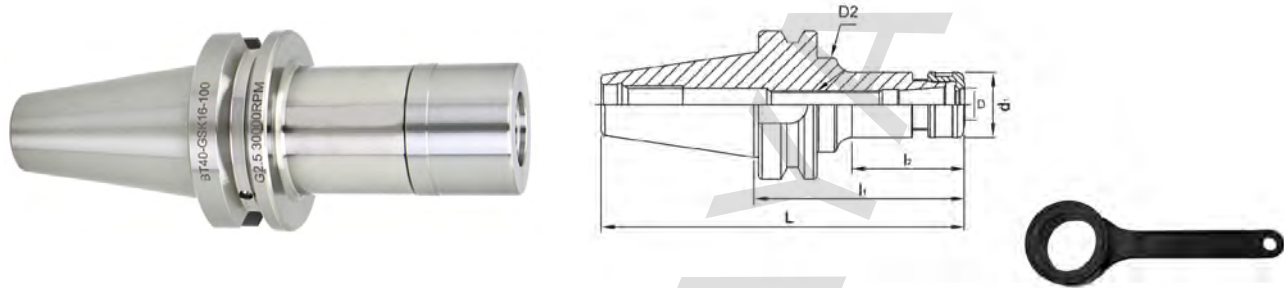
Model	Fig.	φd	φD^1	$\varphi D2$	L	L1	L2	nsection Length C1	Insection Length C
BT40-PHC06-75	1	6	28	46	75	30	34.5	29	46
BT40-PHC06-90	1	6	28	46	90	29	44	29	46
BT40-PHC08-75	1	8	30	48	75	30	34.5	30	46
BT40-PHC08-90	1	8	30	48	90	29	44	30	46
BT40-PHC10-75	1	10	36	52	75	26	30	38	57
BT40-PHC10-90	1	10	36	52	90	40	44	38	57
BT40-PHC12-75	1	12	38	54	75	26	30	38	57
BT40-PHC12-90	1	12	38	54	90	40	44	38	57
BT40-PHC14-75	1	14	40	56	75	28	32	42	57
BT40-PHC16-75	1	16	42	58	75	26	30	46	75
BT40-PHC16-90	1	16	42	58	90	40	44	46	75
BT40-PHC20-75	1	20	46	60	75	26	30	46	75
BT40-PHC20-90	1	20	46	60	90	40	44	46	75
BT40-PHC25-105	1	25	52	62	105	55	58	46	80
BT40-PHC32-105	2	32	62	7D	105	44	47	58	90
BT50-PHC10-105	1	10	36	52	105	26	29	36	57
BT50-PHC12-105	1	12	38	54	105	26	29	38	57
BT50-PHC16-105	1	16	42	58	105	26	29	46	75
BT50-PHC20-105	1	20	46	60	105	26	29	46	75
BT50-PHC25-120	1	25	52	62	120	56	58	50	80
BT50-PHC32-120	1	32	62	72	120	43	47	60	90



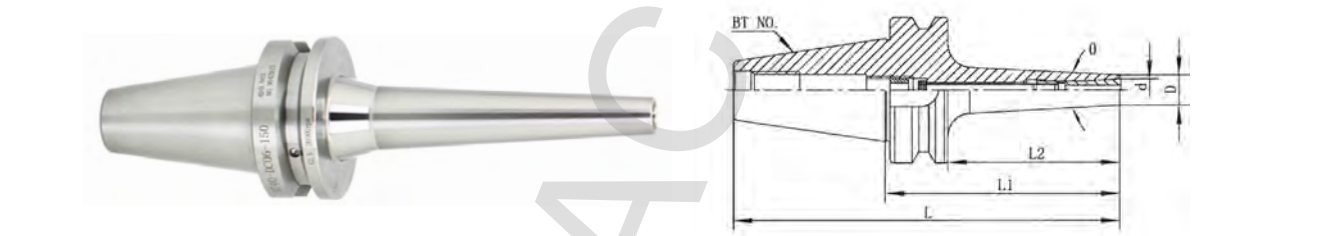
Model	规格 Shank	夹持范围 Capacity mm	A mm	mm
MAS-202017	BT30	1-13	82	45
MAS-202018	BT40	1-13	89	45
MAS-202019	BT40	1-16	95	50
MAS-202020	BT50	1-16	116	50

○此产品含有内冷式 ○ This product contains internal cooling.

BT-GSK 无风阻刀柄 BT-GSK High Speed Collet Chuks

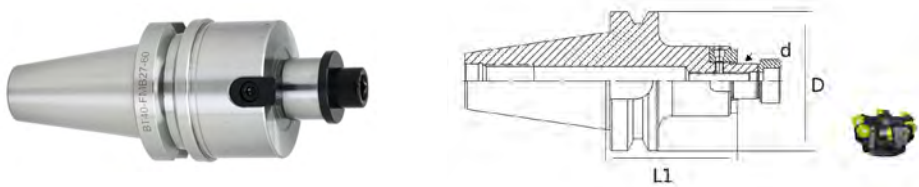


MAS403	20CrMnTi	≤ 0.005MM	≥ 30000RPM		
Model	Clamping	L	L1	D1	Collets
BT30-SK10-60	3-10	60	33	29	SK10
BT30-SK10-90		90	63		
BT30-SK16-60	3-16	60	33	40.5	SK16
BT30-SK16-90		90	63		
BT40-SK10-60	3-10	60	33	29	SK10
BT40-SK10-90		90	63		
BT40-SK16-60	3-16	60	33	40.5	SK16
BT40-SK16-90		90	63		



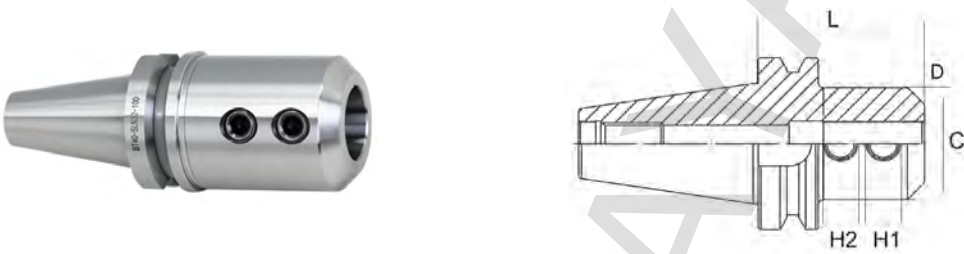
- 夹头螺母设计——无拉力、稳定性强、刚性高
- 推荐扭矩扳手，不要超过推荐值的 30%，扭矩太大，可能会导致变形
- Collet nut design - no pull, strong stability and high rigidity
- The recommended torque wrench, do not exceed the recommended value of 30%, high torque, the deformation may lead

Model		L	L1	L2	θ	D	d
BT30	SDC06-60	108.4	60	38	6°	14	3-6
	SDC06-90	138.4	90	68	6°	14	3-6
	SDC08-60	108.4	60	38	6°	22	3-8
	SDC08-90	138.4	90	68	6°	22	3-8
	SDC12-8C	128.4	80	58	—	34	3-12
BT40	SDC06-100	165.4	100	73	6°	14	3-6
	SDC06-150	215.4	150	123	6°	14	3-6
	SDC08-100	165.4	100	73	6°	22	3-8
	SDC08-150	215.4	150	123	6°	22	3-8
	SDC12-100	165.4	100	73	—	34	3-12
	SDC12-150	215.4	150	123	—	34	3-12
BT50	SDC06-100	201.8	100	62	6°	14	3-6
	SDC06-150	251.8	150	112	6°	14	3-6
	SDC08-100	201.8	100	62	6°	22	3-8
	SDC08-150	251.8	150	112	6°	22	3-8
	SDC12-100	201.8	100	62	—	34	3-12
	SDC12-150	251.8	150	112	—	34	3-12

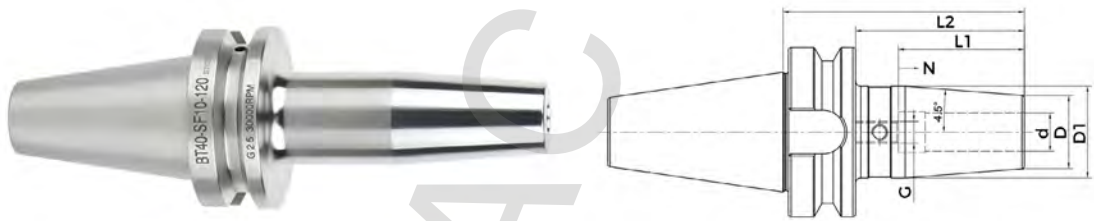


MAS403	20CrMnTi	≥ 12000RPM		
Model		L1	D	d
BT30-FMB22-45		45	50	22
BT30-FMB27-45		45	60	27
BT30-FMB32-60		60	78	32
BT40-FMB22-60		60	48	22
BT40-FMB22-100		100	48	22
BT40-FMB27-60		60	60	27
BT40-FMB32-60		60	78	32
BT40-FMB40-60		60	89	40
BT50-FMB22-100		100	50	22
BT50-FMB27-100		100	60	27
BT50-FMB32-100		100	78	32
BT50-FMB40-100		100	98	40
BT50-FMB60-75		75	140	60

BT-SLN 侧固刀柄 BT-SLN Side Lock End Mill Arbors



MAS403	20CrMnTi	≥ 12000RPM			
Model	Fig	L	C	H1	H2
BT30-SLN20-70	1	70	52	25	—
BT40-SLN20-70	1	70	52	25	—
BT40-SLN25-90	2	90	65	24	25
BT40-SLN32-100	2	100	72	24	28
BT50-SLN25-100	2	100	65	24	25
BT50-SLN32-105	2	105	72	24	28
BT50-SLN40-110	2	110	90	30	32



- 材质: 65Mn 材质

○材料硬度: ≥ HRC52°

○装夹精度: < 0.005MM

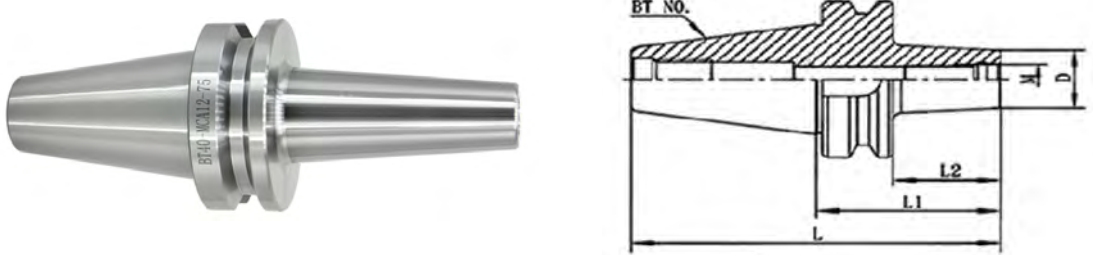
○标准转速: ≤ 25000RPM
- Material: 65Mn

○Hardness: ≥ HRC52°

○Clamping Accuracy: <0.005mm

○Speed: ≤ 25000RPM

Size	d	D	D1	L	L2	L7	N	G
BT30-SF03-80	3	15	20	80	58			
BT30-SF04-80	4	15	20	80	58			
BT30-SF05-80	5	15	20	80	58			
BT30-SF06-80	6	21	27	80	58	36	10	M5
BT30-SF08-80	8	21	27	80	58	36	10	M6
BT30-SF10-80	10	24	32	80	58	42	10	M8x1
BT30-SF12-80	12	24	32	80	58	47	10	M10x1
BT30-SF14-80	14	27	34	80	58	47	10	M10x1
BT30-SF16-80	16	27	34	80	58	50	10	M12x1
B130-SF18-80	18	33	42	80	58	50	10	M12x
BT30-SF20-80	20	33	42	80	58	52	10	M16x1
BT40-SF03-80	3	15	20	80	53			
BT40-SF04-80	4	15	20	80	53			
BT40-SF05-80	5	15	20	80	53			
BT40-SF06-80	6	21	27	90	63	36		M5
BT40-SF08-80	8	21	27	90	63	36		M6
BT40-SF10-80	10	24	32	90	63	42	10	M8x1
BT40-SF12-80	12	24	32	90	63	47	10	M10x1
BT40-SF14-80	14	27	34	90	63	47	10	M10x1
BT40-SF16-80	16	27	34	90	63	50	10	M12x1
BT40-SF18-80	18	33	42	90	63	50	10	M12x1
BT40-SF20-80	20	33	42	90	63	52	10	M16x1
BT40-SF25-80	25	44	53	100	73	58	10	M16x1
BT40-SF32-80	32	44	53	100	73	62	10	M16x1



- 模块化组合, 刀头与刀柄螺纹连接沉头组合

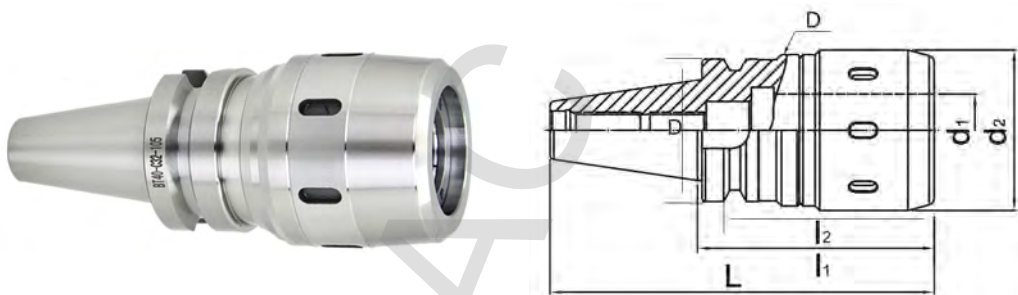
○刀柄直接连接刀头, 无需筒夹降低装夹精度公差

○可换式刀头, 重复装夹精度高, 更适合开粗和精铣

58-60HRC	40Cr	≤ 0.005mm
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动平衡: BT30 G2.5 30000RPM BT40 G2.5 25000RPM

Model		L	L1	L2	D	M
BT30	M6-45	93.4	60	38	13	M6*1.0P
	M8-45	93.4	60	38	15	M8*1.25P
	M10-45	93.4	60	38	19	M10*1.5P
	M12-60	108.4	75	53	24	M12*1.75P
	M16-45	93.4	60	38	29	M16*2.0P
BT40	M6-60	125.4	60	33	13	M6*1.0P
	M6-100	165.4	100	73	13	M6*1.0P
	M6-150	215.4	150	123	13	M6*1.0P
	M8-60	125.4	60	33	15	M8*1.25P
	M8-100	165.4	100	73	15	M8*1.25P
	M8-150	215.4	150	123	15	M8*1.25P
	M10-60	125.4	60	33	19	M10*1.5P
	M10-100	165.4	100	73	19	M10*1.5P
	M10-150	215.4	150	123	19	M10*1.5P
	M12-60	125.4	60	33	24	M12*1.75P
	M12-100	165.4	100	73	24	M12*1.75P
	M12-150	215.4	150	123	24	M12*1.75P
	M16-60	125.4	60	33	29	M16*2.0P
	M16-100	165.4	100	73	29	M16*2.0P
	M16-150	215.4	150	123	29	M16*2.0P



42-48HRC	65Mn	≤ 0.01mm						
Model	L	L1	L2	D	d1	d2		
BT30-C20-75	123.4	75	70	46	20	55		
BT30-C20-90	138.4	90			22	58		
BT30-C22-90	138.4	90						
BT30-C25-80	128.4	80			25			
BT30-C32-100	148.4	100	75	63	32	68		
BT40-C20-90	155.4	90	70		20	55		
BT40-C22-91	155.4	90			22	58		
BT40-C25-95	160.4	95			25			
BT40-C25-130	195.4	130						
BT40-C32-95	160.4	95	75	100	32	68		
BT40-C32-105	170.4	105						
BT40-C32-135	200.4	135						
BT50-C20-100	165.4	100	70		20	55		
BT50-C20-105	170.4	105			25	58		
BT50-C20-115	180.4	115						
BT50-C20-150	215.4	150						
BT50-C25-95	196.8	95						
BT50-C25-105	170.4	105						
BT50-C25-135	200.4	135	75		32	68		
BT50-C32-105	206.8	105						
BT50-C32-135	236.8	135						
BT50-C32-165	266.8	165						
BT50-C32-200	265.4	100	90	42	84			
BT50-C32-250	315.4	100						
BT50-C32-300	365.4	100						
BT50-C40-120	221.8	120						
BT50-C42-110	211.8	110			42	84		
BT50-C42-120	221.8	120						
BT50-C42-135	236.8	135						
BT50-C42-165	266.8	165						

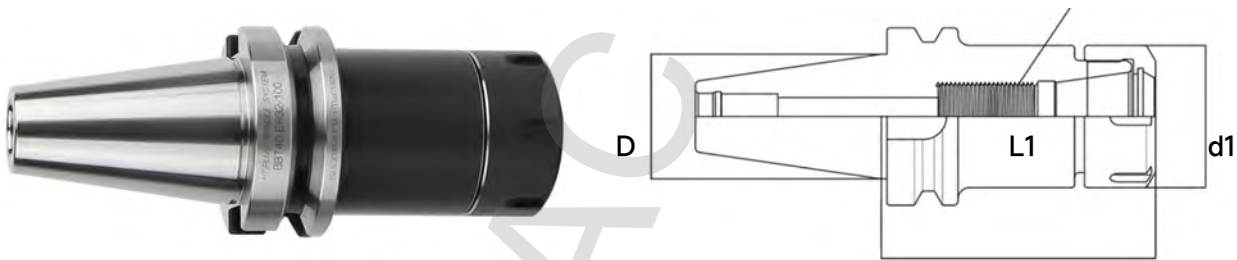


Size of shank &Collets		Back Bar Thread	Wt.
MT4	C32-75L	M16x2.0P	2.5
MT5	C32-75L	M24x3.0P	3.5
	C42-110L		5.0
R8	C20-85L	7/16"-20	2.5
NT30	C20-65L	M12x1.75P	3.0
NT40	C20--70L	M16x2.0P	3.5
	C32-95L		4.0
NT50	C32-100L	M24x3.0P	4.5
	C42-110L		6.0
BT30	C20-85L	M12x1.75P	2.5
	C25-85L		3.0
BT40	C20-90L/120L	M16x2.0p	3.0/4.0
	C25-95L/130L		4.5/5.0
	C32-105L/135L		3.0/3.5
BT50	C32-110L/150L	M24x3.0p	5.2/7.0
	C32-110L/135L		6.5/7.5

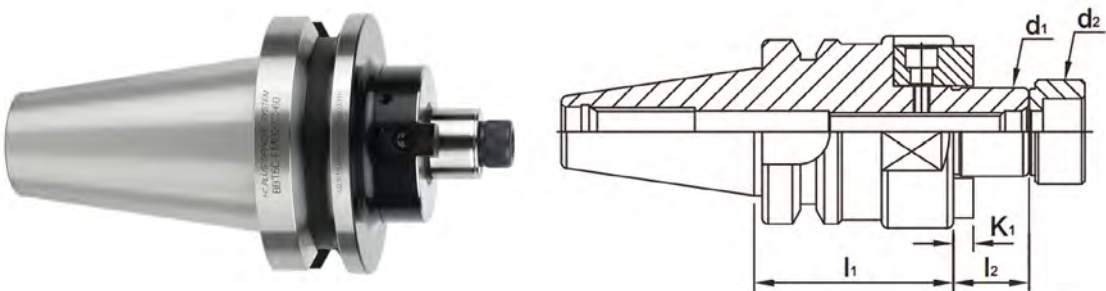
BT-CEM 混合插入式铣刀杆 BT-CEM Combine Shell End Mill Arbors



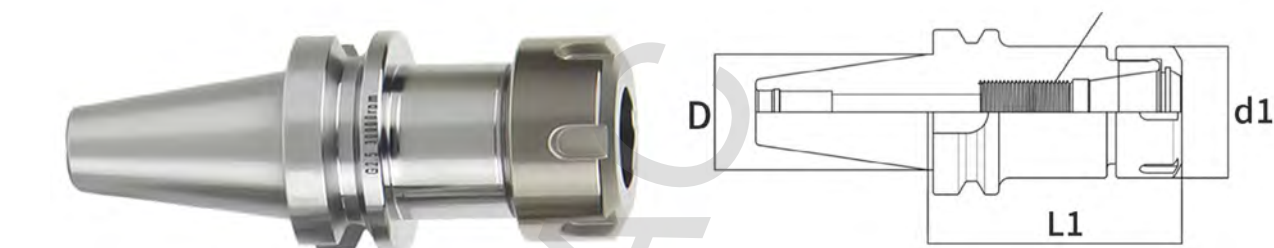
MAS403	20CrMnTi	≥ 12000RPM		
Model	L1	D	D1	d
BT30-CEM16-50	50	32	31.75	16
BT30-CEM22-50	50	40		22
BT30-CEM27-55	55	48		27
BT40-CEM16-55	55	32	44.45	16
BT40-CEM22-55	55	40		22
BT40-CEM27-55	55	48		27
BT40-CEM32-60	60	58		32
BT40-CEM40-60	60	70	69.85	40
BT50-CEM16-70	70	32		16
BT50-CEM22-70	70	40		22
BT50-CEM27-70	70	48		27
BT50-CEM32-70	70	58		32
BT50-CEM40-70	70	70		40



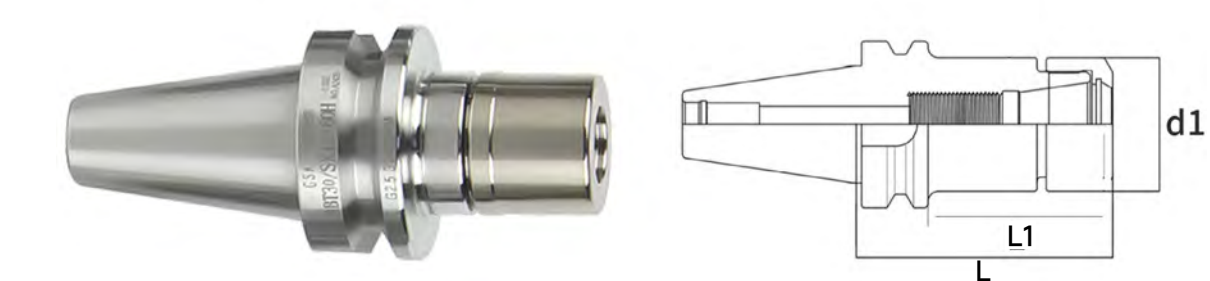
Model	L1	d1	D	H	Clamping range
BBT40-ER11-70	70	19	44.5	30	1-7
BBT40-ER11-100	100	19		30	1-7
BBT40-ER16-70	70	28		50	1-10
BBT40-ER16-100	100	28		50	1-10
BBT40-ER20-70	70	34		70	1-13
BBT40-ER20-100	100	34		70	1-13
BBT40-ER20-125	125	34		70	1-13
BBT40-ER20-150	150	34		70	1-13
BBT40-ER25-70	70	42		90	1-16
BBT40-ER25-100	100	42		90	1-16
BBT40-ER25-125	125	42		90	1-16
BBT40-ER25-150	150	42		90	1-16
BBT40-ER32-70	70	50		100	1-20
BBT40-ER32-100	100	50		100	1-20
BBT40-ER32-125	125	50		100	1-20
BBT40-ER32-150	150	50		100	1-20
BBT40-ER40-80	80	63		90	3-26
BBT40-ER40-100	100	63		100	3-26
BBT40-ER40-125	125	63		100	3-26
BBT40-ER40-150	150	63		100	3-26



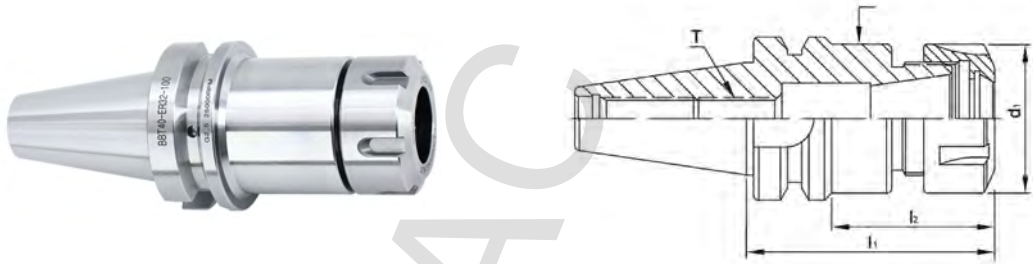
Model	1	L2	D	D1	d2	k1	k2
BBT30-FMB22-45	45	19	48	22	26	4.8	10
BBT30-FMB22-60	60						
BBT30-FMB27-45	45	20	60	27	31.5	5.8	12
BBT30-FMB27-45	60						
BBT30-FMB32-45	45	22	78	32	41	6.8	14
BBT40-FMB22-45	45						
BBT40-FMB22-60	60	19	48	22	26	4.8	10
BBT40-FMB22-100	100						
BBT40-FMB22-150	150						
BBT40-FMB22-200	200						
BBT40-FMB27-45	45	20	60	27	31.5	5.8	12
BBT40-FMB27-60	60						
BBT40-FMB27-90	90						
BBT40-FMB27-105	105	22	78	32	41	6.8	14
BBT40-FMB32-45	45						
BBT40-FMB32-60	60						
BBT40-FMB40-60	60						
BBT50-FMB22-60	60	19	48	22	26	4.8	10
BBT50-FMB22-100	100						
BBT50-FMB22-150	150						
BBT50-FMB22-200	200						
BBT50-FMB22-250	250						
BBT50-FMB22-300	300						
BBT50-FMB22-350	350	20	60	27	31.5	5.8	12
BBT50-FMB22-400	400						
BBT50-FMB27-60	60						
BBT50-FMB27-100	100						
BBT50-FMB27-150	150	22	78	32	41	6.8	14
BBT50-FMB27-200	200						
BBT50-FMB27-250	250						
BBT50-FMB32-60	60						
BBT50-FMB32-100	100	25	89	40	48	8.3	16
BBT50-FMB40-60	60						
BBT50-FMB40-100	100						
BBT50-FMB40-105	105						



Mode	L1	d1	D	H	Clamping Range
BBT40-ER11-70	70	19	44.45	30	1-7
BBT40-ER11-100	100	19		30	1-7
BBT40-ER16-70	70	28		50	1-10
BBT40-ER16-100	100	28		50	1-10
BBT40-ER16-125	125	28		50	1-10
BBT40-ER16-150	150	28		50	1-10
BBT40-ER20-70	70	34		70	1-13
BBT40-ER20-100	100	34		70	1-13
BBT40-ER20-125	125	34		70	1-13
BBT40-ER20-150	150	34		70	1-13
BBT40-ER25-70	70	42		90	1-16
BBT40-ER25-100	100	42		90	1-16
BBT40-ER25-125	125	42		90	1-16
BBT40-ER25-150	150	42		90	1-16
BBT40-ER32-70	70	50		90	1-20
BBT40-ER32-100	100	50		100	1-20
BBT40-ER32-125	125	50		100	1-20
BBT40-ER32-150	150	50		100	1-20
BBT40-ER40-80	80	63		90	3-26
BBT40-ER40-100	100	63		100	3-26
BBT40-ER40-125	125	63		100	3-26
BBT40-ER40-150	150	63		100	3-26



Model		Clamping range	d1	L	L1
BT/BBT30	GSK06-60	2-6	19.5	60	38
	GSK06-90			90	68
	GSK06-120			120	98
	GSK10-60	2-10	27.5	60	38
	GSK10-90			90	68
	GSK10-120			120	98
	GSK16-60	3-16	40	60	38
	GSK16-90			90	68
	GSK16-120			120	98
BT/BBT40	GSK06-60	2-6	19.5	60	43
	GSK06-90			90	63
	GSK06-120			120	93
	GSK10-60	2-10	27.5	60	43
	GSK10-90			90	63
	GSK10-120			120	93
	GSK16-60	3-16	40	60	43
	GSK16-90			90	63
	GSK16-120			120	93



20CrMnTi ≤ 0.005mm G2.5 25000RPM

Model	11	2	d1	d2	d3	T
BBT30-ER16-50	50	27	28	16	28	M10*1.5p
BBT30-ER16-60	60	35				
BBT30-ER16-70	70	40				
BBT30-ER16-100	100	70				
BBT30-ER16-120	120	93				
BBT30-ER20-50	50	28	34	20	34	M12*1.75P
BBT30-ER20-70	70	45				
BBT30-ER20-100	100	75				
BBT30-ER20-135	135	110				
BBT30-ER25-70	70	46	42	25	42	M16*2.0P
BBT30-ER25-135	135	111	50	32	50	
BBT30-ER32-70	70	48				
BBT30-ER32-100	100	78				
BBT30-ER40-80	80	58	63	40	63	
BBT40-ER16-70	70	40	28	16	28	M10*1.5P
BBT40-ER16-100	100	63				
BBT40-ER16-125	125	88				
BBT40-ER16-150	150	103				
BBT40-ER16-180	180	143				
BBT40-ER20-70	70	40	34	20	34	M12*1.75P
BBT40-ER20-100	100	63				
BBT40-ER20-135	135	98				
BBT40-ER20-150	150	113				
BBT40-ER25-70	70	40	42	25	42	M16*2.0P
BBT40-ER25-100	100	70				
BBT40-ER25-125	125	95				
BBT40-ER25-150	150	115				
BBT40-ER32-70	70	40	50	32	50	
BBT40-ER32-100	100	70				
BBT40-ER32-150	150	118				
BBT40-ER40-80	80	53	63	40	63	M20*2.0P
BBT40-ER40-100	100	73				
BBT40-ER40-120	120	93				
BBT40-ER40-150	150	123				
BBT40-ER50-85	85	58	78	50	60	m24*2.0p
BBT40-E50-100	100	73				

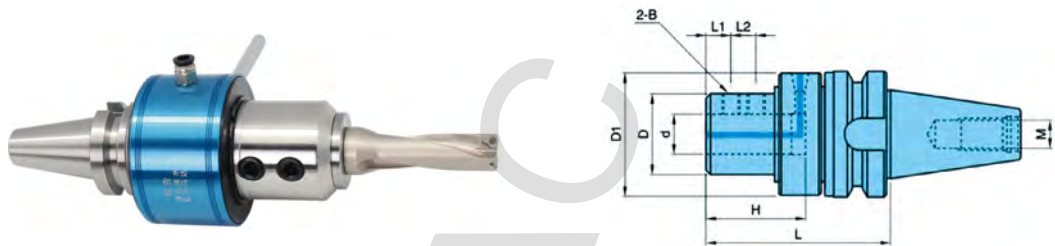


52-60HRC 20CrMnTi ≤ 0.005mm G2.5 25000RPM

●在高速加工时，增加刀柄的稳定性。降低刀柄在高速切削时造成的精度不佳的现象接触直径加大，有助于延伸倍数增加。
刀具稳定性提升，可增加刀具使用寿命，确保在换刀后重复定位精度
In high-speed machining, increase the stability of the tool holder. Reduce the poor accuracy of the tool holder during high-speed cutting. The increase in contact diameter helps to increase the extension.
Improved tool stability can increase tool life and ensure repeated positioning accuracy after tool changea

Model	11	12		d1	d2	d3	T
BBT30-SK10-45	45	14.5	φ3-φ10	30	27.6		M12*1.75P
BBT30-SK10-60	60	25					
BBT30-SK10-90	90	55					
BBT30-SK16-60	60	27.7	φ3-φ16	40	40		M18*1.75P
BBT30-SK16-90	90	57.7					
BBT30-SK20-60	60	37	φ3-φ20	48.5	48.5		M12*1.75P
BBT30-SK20-90	90	67					
BBT40-SK10-60	60	22	φ3-φ10	30	27.6	40	M12*1.75P
BBT40-SK10-90	90	37.721					
BBT40-SK10-120	120	68.499					
BBT40-SK16-60	60	23.2	φ3-φ16	40	40		M18*1.5P
BBT40-SK16-90	90	48.7					
BBT40-SK16-120	120	78.876					
BBT40-SK20-60	60	32	φ3-φ20	48.5	48.5		M22*1.5P
BBT40-SK20-90	90	60					
BBT40-SK20-120	120	90					

BT 油路刀柄 BT Side Lock Oil Hole Holders



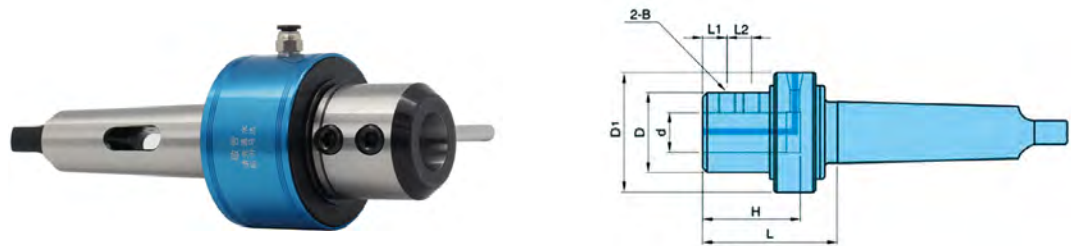
Model	L1	L2	L3	H	I1	I2	D	D1	d	Weight
BT40-OSL20-140	140	96.7	57	78	20	20	φ83	φ49.5	20	3.74
BT40-OSL25-155	155	111.7		93					25	3.81
BT40-OSL32-155		112	59				φ89	φ54.5		32
BT50-OSL20-140	140	97	57	78	20		φ83	φ49.5	20	7.17
BT50-OSL25-155	155	112		93					20	25
BT50-OSL32-155		112.7	59				φ98	φ59.5		32
BT50-OSL40-160	160	117.7		95	40				7.90	

BT-OMS 油路刀柄 BT-OMS/ Side Oil Hole Holders



Model	d	L	D	D1	H	I	I2	B
BT40-OMS20-105	20	105	50	78	50	20	/	M12
BT40-OMS25-120	25	120	50	78	60	20	20	M12
BT40-OMS32-125	32	125	65	88	70	20	20	M14
BT50-OMS20-120	20	120	50	78	50	20	/	M12
BT50-OMS25-135	25	135	50	78	60	20	20	M12
BT50-OMS32-135	32	135	65	98	70	20	20	M14
BT50-OMS40-145	40	145	65	98	80	20	25	M16×1.5
BT50-OMS50-170	50	170	90	123	90	35	35	M20

MT 油路刀柄 MT Side Lock Oil Hole Holders

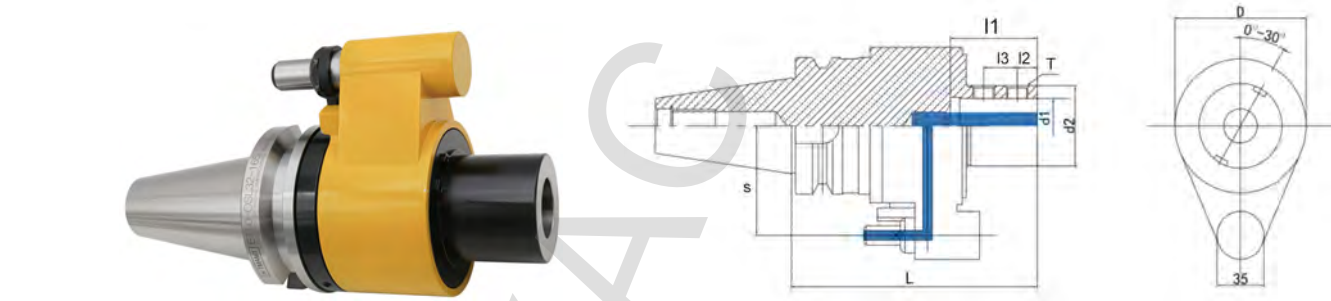


Model	L1	I1	I2	H	D	D1	d	Weight
MT4-OSL20-115	115	20	20	78	φ83	φ49.5	20	3.56
MT4-OSL25-130	130			93			25	5.62
MT4-OSL32-135	135				φ89	φ54.5	32	4.38
MT5-OSL20-115	115	—		78	φ83	φ49.5	20	4.4
MT5-OSL25-130	130	20		93			25	4.50
MT5-OSL32-135	135				φ89	φ54.5	32	5.01
MT5-OSL40-140	140			95	φ98	φ59.5	40	5.11
MT6-OSL20-120	120	20		78	φ83	φ49.5	20	7.13
MT6-OSL25-130	130			93			25	7.22
MT6-OSL32-135	135				p89	φ54.5	32	7.85
MT6-OSL40-140	140			95	φ98		40	7.98

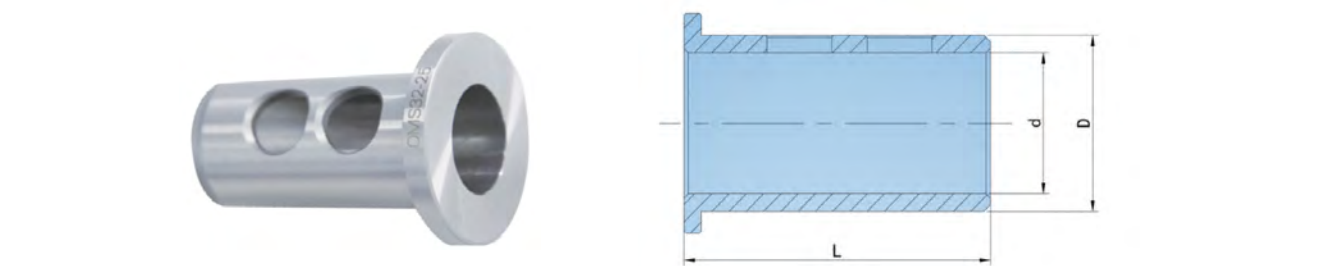
MT-OMS 刀柄 MT/OMS Side Lock Oil Hole Holders



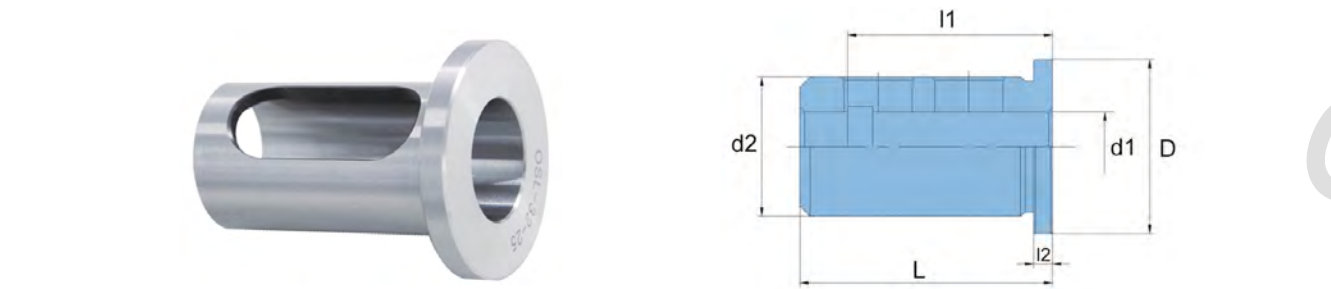
Model	d	D	I	I2	H	L1	B
MT4-OMS20-080	20	83	20	/	60	80	M12
MT4-OMS25-095	25	83	20	20	75	95	M12
MT4-OMS32-100	32	88	20	20	78	100	M14
MT5-OMS20-080	20	83	20	/	60	80	M12
MT5-OMS25-095	25	83	20	20	75	95	M12
MT5-OMS32-100	32	88	20	20	78	100	M14
MT5-OMS40-110	40	88	20	25	82	110	M16×1.5
MT6-OMS20-085	20	83	20	/	60	85	M12
MT6-OMS25-100	25	83	20	20	75	100	M12
MT6-OMS32-105	32	88	20	20	78	105	M14
MT6-OMS40-120	40	88	20	25	82	120	M16×1.5



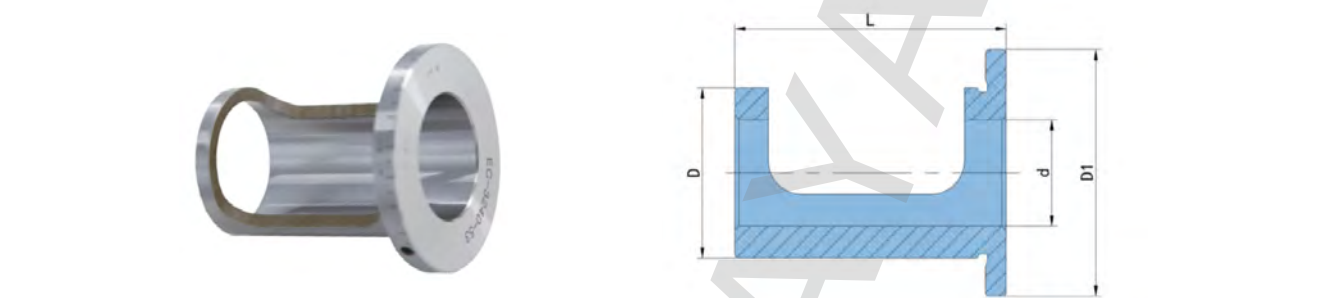
Model	L	I1	I2	I3	D	d1	d2	S	T	Weight
BT40-OSL16-150	150	48	25	-	82	16	49.5	65	M12-1.75P	3.10
BT40-OSL20-150		50				20				3.50
BT40-OSL25-165		165				56				15
BT40-OSL32-165	60		32	7.80						
BT50-OSL16-165	48		25	-	16	59	80	M14-2.0P	7.00	
BT50-OSL20-165	50				20			M12-1.75P	7.50	
BT50-OSL25-165	56		15	20	25	M16-2.0P	7.50			
BT50-OSL32-165	60				32		9.05			
BT50-OSL40-165	62	25			40		M14-2.0P	8.50		



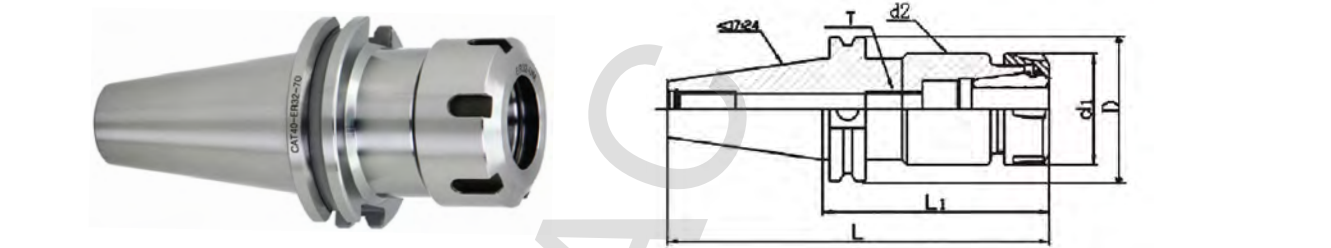
Model	L	D	d	Weight
OMS25-20	58	φ25	φ20	0.21
OMS32-20	60	φ32		0.28
OMS32-25	71		φ25	0.23
OMS40-20	66	φ40	φ20	0.50
OMS40-25	71		φ25	0.45
OMS40-32			φ32	0.24



Model	L	I1	I2	D	d1	d2	Weight
OSL-20-16	54	48	5.5	30	16	20	0.07
OSL-25-16	60			35		20	25
OSL-25-20		56			0.15		
OSL-32-16	64	48		42	16	32	0.35
OSL-32-20		56			20		0.32
OSL-32-25					25		0.22
OSL-40-16	74	48		50	16	40	0.57
OSL-40-20		60			20		0.54
OSL-40-25					25		0.45
OSL-40-32					32		0.30

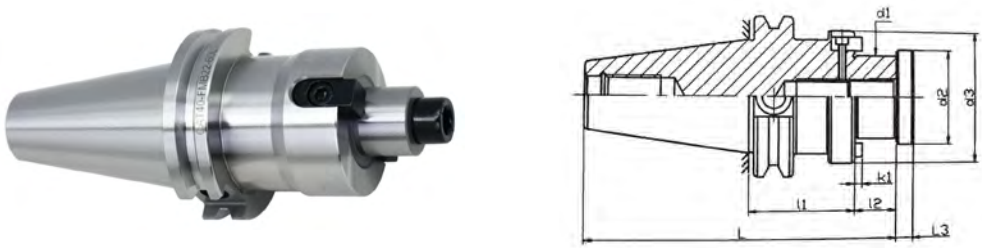


Model	L	d	D1	D	Weight
EC20-25	48	20	41	25	0.19
EC25-32	60	25	49	32	0.21
EC32-40	65	32	58	40	0.23
EC40-50	76	40	68	50	0.24



ANSI B5.50	20CrMnTi	≤ 0.005mm	≥ 12000rpm
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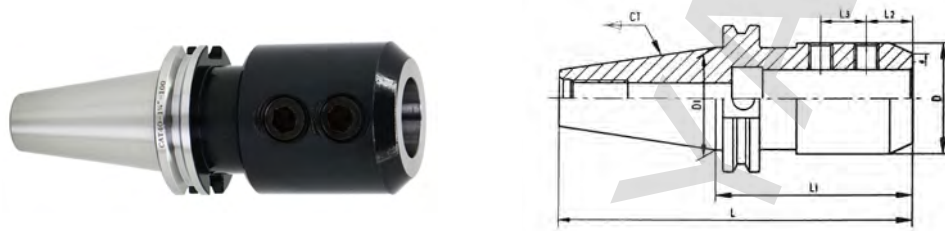
Model	L	L1	D	d1	d2	Thread	KGS
CAT40-ER16-2.76"	5.447"	2.76"	2.5"	1.102"	1.75"	M10*1.5P	1.05
CAT40-ER16-4"	6.687"	4"		1.102"		M10*1.5P	1.35
CAT40-ER16-6"	8.687"	6"		1.102"		M10*15P	1.65
CAT40-ER20-2.76"	5.447"	2.76"		1.339"		M12*1.75P	1.25
CAT40-ER20-4"	6.687"	4"		1.339"		M12*1.7P	1.65
CAT40-ER25-2.76"	5.447"	2.76"		1.654"		M16*2P	1.35
CAT40-ER25-4"	6.687"	4"		1.654°		M16**2P	1.70
CAT40-ER25-6"	8.687"	6"		1.65"		M16*2P	2.25
CAT40-ER32-2.76"	5.447"	2.76"		1.969		M16*2P	1.25
CAT40-ER32-4"	6.687"	4"		1.969		M16*2P	1.75
CAT40-EB32-5"	8.687"	6"		1.969		M16*2P	2.15
CAT40-ER40-3.15"	5.837°	3.15"		2.480"		M20*2.5P	1.80
CAT40-ER40-4"	6.687"	4"	3.875"	2.480"	2.75"	M20*2.5P	2.05
CAT40-ER40-6"	8.687"	6"		2.480"		M20*2.5P	3.30
CAT40-EB50-4"	6.687"	4"		3.070		M24*3.0P	2.65
CAT50-ER16-4"	8"	4"		1.102"		M10*1.5P	4.10
CAT50-ER16-6"	10"	6"		1.102"		M10*1.5P	4.28
CAT50-ER20-4"	8"	4"		1.339		M12*1.75P	4.20
CAT50-ER20-6"	10"	6"		1.339		M12*1.75P	4.45
CAT50-ER25-4"	8"	4"		1.654		M16*2P	4.15
CAT50-EB25-6"	10"	6"		1.654"		M16*2P	4.50
CAT50-ER32-4"	8"	4"		1.969		M16*2P	4.70
CAT50-ER32-6"	10"	6"		1.969		M16*2P	4.60
CAT50-ER40-4"	8"	4"		2.480"		M20*2.5P	4.25
CAT50-ER40-6"	10"	6"		2.480"		M20*2.5P	4.80
CAT50-ER50-4"	8"	4"		3.070"		M24*3P	4.85



ANSI B5.50	20CrMnTi	≤ 0.005mm	≥ 12000rpm
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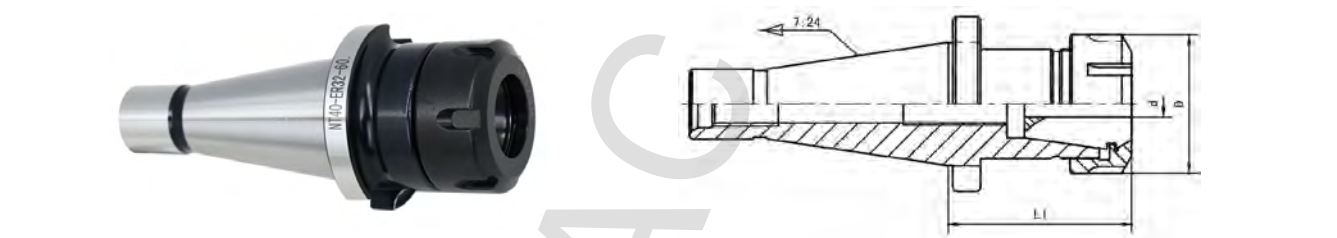
Model	L	L2	d1	d3
CAT40-FMB1"-1.75"	1.75"	17.5	1"	60
CAT40-FMB1.25"-2"	2"	17.5	1.25"	70
CAT40-FMB1.5"-2"	2"	23.8	1.5"	85
CAT50-FMB1.25"-4"	4"	17.5	1.25"	70
CAT50-FMB1.25"-6"	6"	17.5	1.25"	70
CAT50-FMB1.5"-4"	4"	23.8	1.5"	85
CAT50-FMB1.5"-6"	6"	23.8	1.5"	85
CAT50-FMB2"-2"	2"	24	2"	95
CAT50-FMB2"-4"	4"	24	2"	95
CAT50-FMB2"-6"	6"	24	2"	95

CAT 侧固式立铣刀杆 CAT Side Lock End Mill Arbors



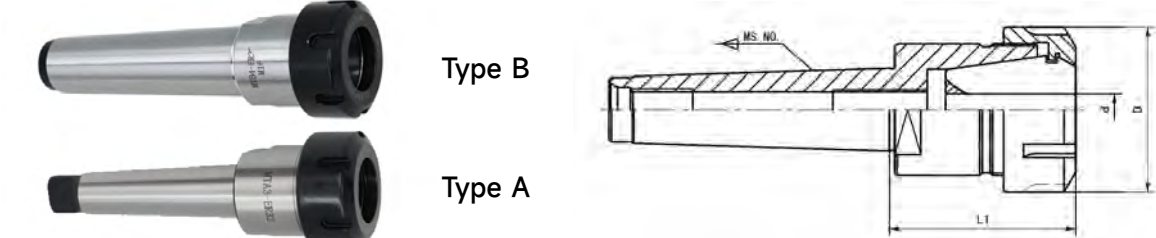
ANSI B5.50

Model	L1	D	d	12	13
CAT40-SL0.4"-2"	2"	1.4"	0.4"	0.8"	
CAT40-SL0.475"-2"	2"	1.675"	0.475"	9"	
CAT40-SL0.65"-2.5"	2.5"	1.925"	0.65"	1"	
CAT40-SL0.8"-2.5"	2.5"	2.075"	0.8"	1"	
CAT40-SL1"-4"	4"	2.625"	1"	1"	1"
CAT40-SL1.25"-4"	4"	2.85"	1.25"	1"	1.125"
CAT50-SL0.475"-2.5"	2.5"	1.675"	0.475"	9"	
CAT50-SL0.65"-2.5"	2.5"	1.925"	0.65"	1"	
CAT50-SL0.8"-2.5"	2.5"	2.075"	0.8"	1"	
CAT50-SL1"-3.2"	3.2"	2.625"	1"	1"	1"
CAT50-SL1.25"-4"	4"	2.85"	1.25"	1"	1.125"
CAT50-SL1.6"-4.8"	4.8"	3.6"	1.6"	1.2"	1.275"
CAT50-SL2"-5.2"	5.2"	4"	2"	1.4"	1.4"



DIN2080 20CrMnTi

Model	7:24 NO.	d	D	L1
NT30XER11-50	30	1 ~ 7	19	50
NT30XER16-63	30	1 ~ 10	28	63
NT30XER20-63	30	1 ~ 13	34	63
NT30XER25-63	30	1 ~ 16	42	63
NT30XER32-63	30	2 ~ 20	50	63
NT30XER40-75	30	3 ~ 26	63	75
NT40XER16-63	40	1 ~ 10	28	63
NT40XER20-60	40	1 ~ 13	34	60
NT40XER25-60	40	1 ~ 16	42	60
NT40XER32-70	40	2 ~ 20	50	70
NT40XER40-60	40	3 ~ 26	63	60
NT40XER50-100	40	6 ~ 34	78	100
NT50XER16-63	50	1 ~ 10	28	63
NT50XER20-60	50	1 ~ 13	34	60
NT50XER25-60	50	1 ~ 16	42	60
NT50XER32-70	50	2 ~ 20	50	70
NT50XER40-70	50	3 ~ 26	63	70
NT50XER50-90	50	6 ~ 34	78	90



DIN228 0.01mm

Model	MS.NO.	d	D	L1
MT2XER11	MS2	1 ~ 7	19	35.3
MT2XER16	MS2	1 ~ 10	28	44.3
MT2XER20	MS2	1 ~ 13	34	53.3
MT2XER25	MS2	1 ~ 16	42	57.7
MT3XER16	MS3	1 ~ 10	28	49.3
MT3XER20	MS3	1 ~ 13	34	56.2
MT3XER25	MS3	1 ~ 16	42	55.7
MT3XER32	MS3	2 ~ 20	50	65.7
MT3XER40	MS3	3 ~ 26	63	71.7
MT4XER16	MS4	1 ~ 10	28	46.5
MT4XER20	MS4	1 ~ 13	34	51.7
MT4XER25	MS4	1 ~ 16	42	46.7
MT4XER32	MS4	2 ~ 20	50	74.2
MT4XER40	MS4	3 ~ 26	63	69.7
MT5XER40	MS5	3 ~ 26	63	69.2
MT5XER50	MS5	6 ~ 34	78	85

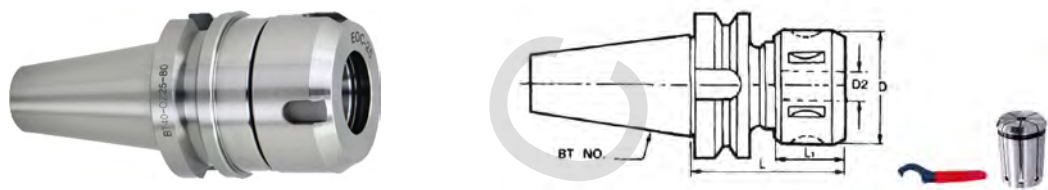


Model	Qty.&Clamping	Back Bar Thread	Wt.
NT30-ER25	7PCS(2-16mm)	M12x1.75P	2.4
	15PCS(4-16mm)		2.8
NT30-ER32	6PCS(6-20mm)	M12x1.75P	2.8
	11PCS(4-20mm)		3.2
	18PCS(3-20mm)		4.2
NT30-ER40	7PCS(6-25mm)	M12x1.75P	4.6
	15PCS(4-26mm)		6.0
	23PCS(4-26mm)		7.3
NT40-ER25	7PCS(3-16mm)	M16x2.0P	3.0
	15PCS(3-16mm)		3.3
NT40-ER32	6PCS(6-20mm)	M12x1.75P	3.4
	11PCS(4-20mm)		3.8
	18PCS(3-20mm)		4.8
NT40-ER40	7PCS(6-25mm)	M16x2.0P	5.2
	15PCS(4-26mm)		6.9
	23PCS(4-26mm)		8.2
NT50-ER32	6PCS(6-20mm)	M24x3.0P	5.3
	11PCS(4-20mm)		5.5
	18PCS(3-20mm)		6.5
NT50-ER40	7PCS(6-25mm)	M24x3.0P	7.0
	15PCS(4-26mm)		8.5
	23PCS(4-26mm)		9.8



Model	Qty.&Clamping	Back Bar Thread	Wt.
MT2-ER16	8PCS(3-10mm)	M10x1.5P	1.0
MT2-ER20	11PCS(3-13mm)		1.2
MT2-ER25	7PCS(6-16mm)		1.3
	15PCS(2-16mm)		2.4
MT3-ER16	8PCS(3-10mm)	M12x1.75P	1.1
MT3-ER20	11PCS(3-13mm)		1.3
MT3-ER25	7PCS(4-16mm)		2.1
	15PCS(2-16mm)		2.5
MT3-ER32	6PCS(6-20mm)		2.7
	11PCS(4-20mm)		3.0
	18PCS(3-20mm)		4.1
MT3-ER40	7PCS(6-25mm)		4.5
	15PCS(4-26mm)		6.0
	23PCS(4-26mm)		7.2
MT4-ER32	6PCS(6-20mm)	M16x2.0P	2.9
	11PCS(4-20mm)		3.2
	18PCS(3-20mm)		4.3
MT4-ER40	7PCS(6-25mm)		4.6
	15PCS(4-26mm)	M20x2.5P	6.1
	23PCS(4-26mm)		7.3
MT5-ER40	7PCS(6-25mm)	M20x2.5P	6.4
	15PCS(4-26mm)		6.9
	23PCS(4-26mm)		8.2

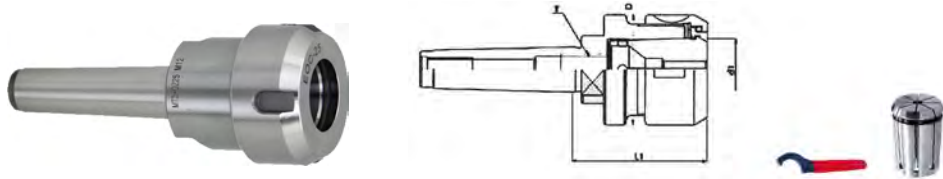
BT-OZ 铣刀柄 BT-OZ Collets Holders



MAS403	20CrMnTi	≥ 12000RPM
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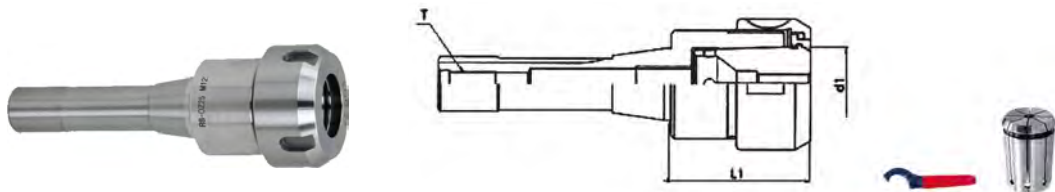
Model	D2	L	D	L1	Collets	Back Bar Thread
BT40-OZ25-80	3-25	80	60	30	OZ25	M16x2.0P
BT40-OZ25-120	3-25	120	60	30	OZ25	
BT40-OZ32-80	6-32	80	72	33	OZ32	
BT40-OZ32-150	6-32	150	72	33	OZ32	
BT50-OZ25-90	3-25	90	60	30	OZ25	M24x3.0P
BT50-OZ25-130	3-25	130	60	30	OZ25	
BT50-OZ32-105	6-32	105	72	33	OZ32	
BT50-OZ32-150	6-32	150	72	33	OZ32	

MT-OZ 铣刀柄 MT-OZ Collets Holders



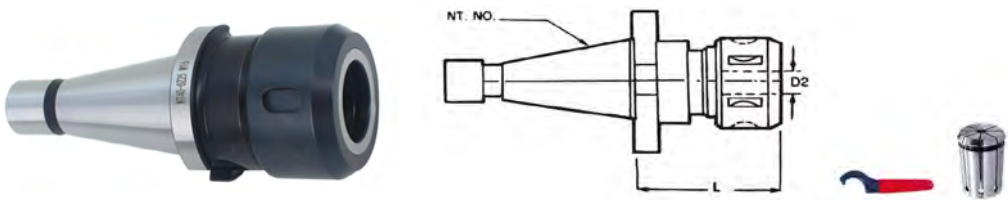
Model	D2	L1	Collets	Back Bar Thread
MT3-OZ25-60	3-25	60	OZ25	M10x1.0P
MT4-OZ25-60	3-25	60	OZ25	M16x2.0P
MT5-OZ25-75	3-25	75	OZ25	M24x3.0P
MT5-OZ32-75	6-32	75	OZ32	

R8-OZ 铣刀柄 R8-OZ Collets Holders



Model	D2	L1	Collets	Back Bar Thread
R8-OZ25-60	3-25	60	OZ25	7/16-20UNF

NT-OZ 铣刀柄 NT-OZ Collets Holders



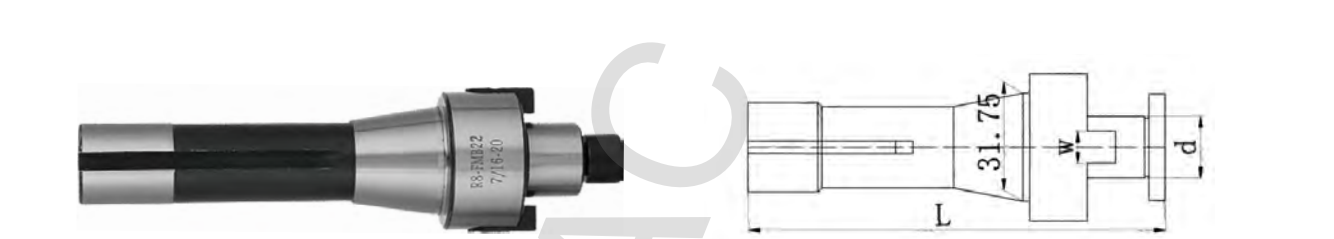
DN2080	20CrMnTi	≥ 12000RPM
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Model	D2	L	Collets	Back Bar Thread
NT30-OZ25-70	3-25	70	OZ25	M12x1.75P
NT30-OZ32-100	6-32	100	OZ32	
NT40-OZ25-70	3-25	70	OZ25	M16x2.0P
NT40-OZ32-70	6-32	70	OZ32	
NT50-OZ25-80	3-25	80	OZ25	M24x3.0P
NT50-OZ32-80	6-32	80	OZ32	

OZ 筒夹套装 OZ Collets Sets



OZ25 (EOCA25)	7PCS	Metric	6; 8; 10; 12; 16; 20; 25mm
		Inch	1/4" 5/16" 3/8" 1/2" 5/8" 3/4"1"
OZ32 (EOCA32)	15PCS	Metric	3; 4; 5; 6; 7; 8; 9; 10; 11; 12; 14; 16; 18; 20; 25mm
		Inch	1/8",3/16",1/4",5/16",3/8",7/16",1/12",9/16",5/8",11/16",3/4",13/16",7/8",15/16",1"
	8PCS	Metric	3;8;10;12;16;20;25;32mm
		Inch	1/4",5/16",3/8",1/2",5/8",3/4",1",1-1/4",
	15PCS	Metric	6; 7; 8; 9; 10; 11; 12; 13; 16; 18; 20; 25; 30; 32mm
		Inch	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"



Model	d	W	L	Thread	Hole	Face Mill specifications
R8-FMB22	22	10	155	M12	22	50/63
R8-FMB27	27	12	160		27	80
R8-FMB32	32	14	160		32	100
R8-FMB40	40	16	170		40	125/160



≤ 0.005MM	20CrMnTi	≥ 30000RPM			
Model	Capacity	D	L	L1	
ISO20-ER16MS-35	1-10	22	35	26	
ISO25-ER20MS-35	1-13	28	35	26.2	
ISO30-ER32UM-50	3-20	50	50	30.9	

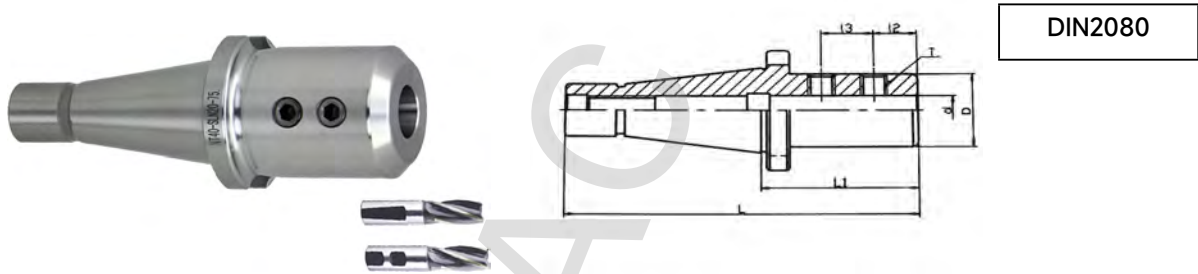


Model	d	d1	d2	L	D
C48-FMB22-50L	22	22	105	50	48
C58-FMB22-50L	22	22	105	50	58
C58-FMB22-100L	22	22	105	100	58
C58-FMB27-50L	27	27	125	50	58
C58-FMB27-100L	27	27	125	100	58
C64-FMB32-50L	32	32	145	50	64
C64-FMB32-100L	32	32	145	100	64
C69-FMB40-50L	40	40	16.5	50	69
C69-FMB40-100L	40	40	16.5	100	69



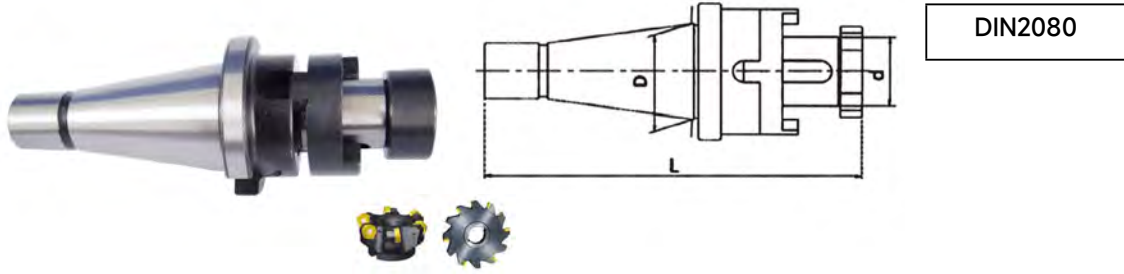
≤ 0.005MM	20CrMnTi	≥ 30000RPM		
Mode	Capacity	D	L	L1
NBT30-ER16-70	1-10	28	60	38
NBT30-ER20-70	1-13	34		38
NBT30-ER25-70	1-16	42		38
NBT30-ER32-70	3-20	50		38

NT 侧固式铣刀杆 NT Side Lock End Mill Arbors



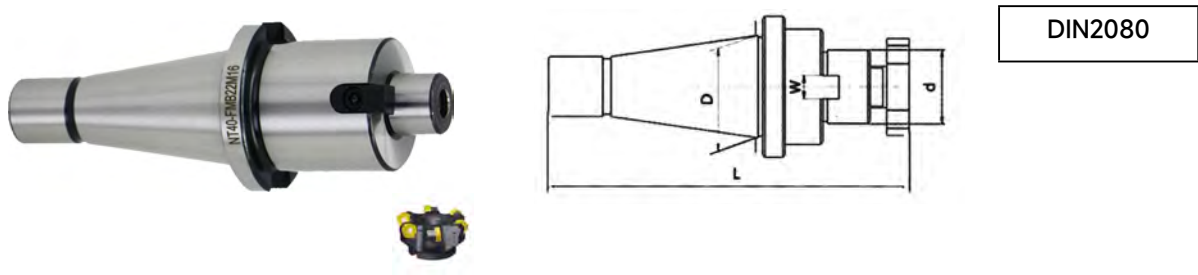
Model	L1	D	d	2	l3
NT30-SL20-63	63	52	20	25	—
NT30-SL25-80	82	65	25	24	25
NT40-SL20-63	63	52	20	25	-
NT40-SL25-80	80	65	25	24	25
NT40-SL32-80	80	72	32	24	28
NT50-SL25-80	80	65	25	24	25
NT50-SL32-80	80	72	32	24	28
NT50-SL40-100	100	90	40	30	32
NT50-SL42-100	100	90	42	30	32

NT 混合插入式铣刀杆 NT Combine Shell End Mill Arbors



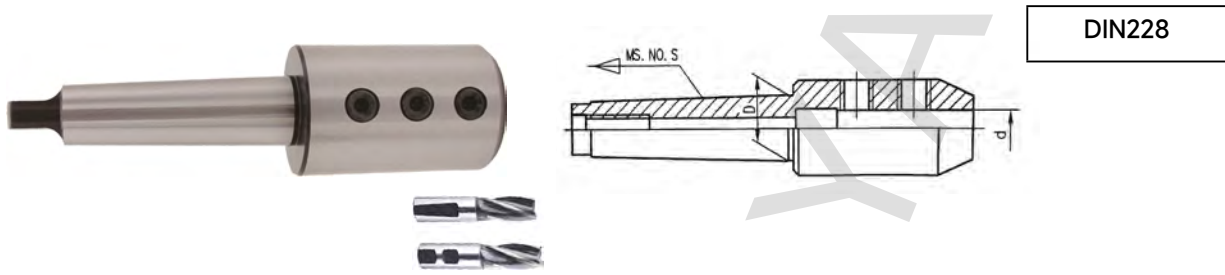
Model	Shank	d	L	Wt.
NT30-13	ISO30	13	120	0.608
NT30-16	ISO30	16	131	0.746
NT30-22	ISO30	22	132	1.038
NT30-27	ISO30	27	135	1.474
NT30-32	ISO30	32	151	2.101
NT40-16	ISO40	16	168	1.3
NT40-22	ISO40	22	171	2.042
NT40-27	ISO40	27	174	2.69
NT40-32	ISO40	32	178	2.679

NT 套式铣刀杆 NT Shell End Mill Arbors



Model	D	d	W	L
NT30-FMB22	31.75	22	10	129
NT30-FMB27		27	12	134
NT40-FMB22	44.45	22	10	156
NT40-FMB27		27	12	159
NT40-FMB32		32	14	178
NT50-FMB22	69.85	22	10	208
NT50-FMB27		27	12	211
NT50-FMB32		32	14	215
NT50-FMB40		40	16	219

MT 侧固式铣刀杆 MT Side Lock End Mill Arbors



Model	D	d		
		单头, 双头	单夹头 (Inch)	双夹头 (Inch)
MT2-20	17.780	4-20	3/16"-3/4"	3/8"-3/4"
MT3-25	23.825	4-25	3/16"-1"	3/8"-1"
MT4-40	31.267	4-40	3/16"-1-1/2"	3/8"-1-1/2"
MT5-63	44.399	4-63	3/16"-1-1/2"	3/8"-1-1/2"

标准刀具座 / 刀套 Standard tool holder/holder



Model	Model	规格 Specification(mm)	配置 Configuration	参数描述
BT30 刀座	NB30	645L×140W×165H	可存放 6 把 BT30 型刀柄 Can store 6 BT30 tool handles	每只刀座 配 2 只垫脚
BT40 刀座	NB40		可存放 5 把 BT40 型刀柄 Can store 5 BT40 tool handles	
BT50 刀座	NB50		可存放 4 把 BT50 型刀柄 Can store 4 BT50 tool handles	
Model	Model	规格 Specification(mm)	配置 Configuration	参数描述
HSK63 刀座	NH63	645L×140W×165H	可存放 6 把 HSK63 型刀柄 Can store 6 HSK63 tool handles	每只刀座 配 2 只垫脚
HSK80 刀座	NH80		可存放 5 把 HSK80 型刀柄 Can store 5 HSK80 tool handles	
HSK100 刀座	NH100		可存放 4 把 HSK100 型刀柄 Can store 4 HSK100 tool handles	



Model	CNS-01					
规格 Specification	W1100xD600×H880					
刀具 Handle body	BT30	BT40	BT50	HSK63	HSK80	HSK100
数量 Quantity	30	25	20	25	20	20



Model	CNS-02					
规格 Specification	W1100xD600×H880					
刀具 Handle body	BT30	BT40	BT50	HSK63	HSK80	HSK100
数量 Quantity	30	25	20	25	20	20



Model	CNS-03					
规格 Specification	W717×D572×H880					
刀具	BT30	BT40	BT50	HSK63	HSK80	HSK100
数量 Quantity	24	24	20	24	20	20



Model	CNS-05				
规格 Specification	W564×D572×H985				
刀具	BT30	BT40	BT50	HSK63	HSK80
数量 Quantity	43	43	26	43	26



Model	CNS-06				
规格 Specification	W564×D572×H860(挂板)				
刀具	BT30	BT40	BT50	HSK63	HSK80
数量 Quantity	22	18	16	18	16



Model	CNS-11		
规格 Specification	W810×D500×H920MM		
刀具	BT30	BT40	BT50
数量 Quantity	56	48	40



Model	CNS-09		
规格 Specification	W850×D450×H800MM		
刀具	BT30	BT40	BT50
数量 Quantity	45	35	25



Model	CNS90		
规格 Specification	W900×D475×H800MM		
刀具	BT30	BT40	BT50
数量 Quantity	45	35	215



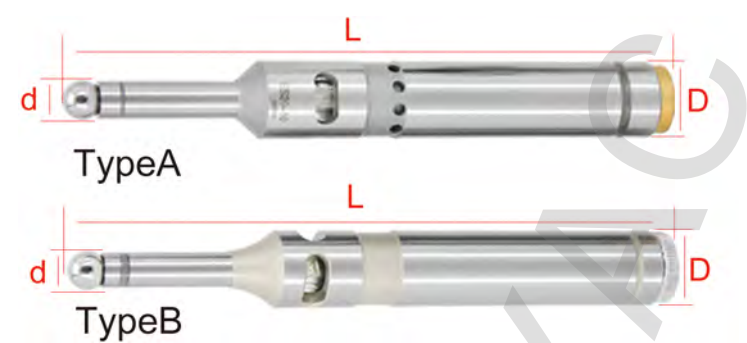
Model	CNS9811
规格 Specification	W720×D420×H1230MM



Model	CNS-07					
规格 Specification	1000W×650D×1500H					
刀座数量 Number of tool holders	8	7	6	7	7	6
刀具型号 Tool model	BT-30	BT-40	BT-50	HSK63	HSK80	HSK100
可装刀具总数 Total number of tools that can be installed	40	35	30	35	35	30



Model	CNS-08					
规格 Specification	960W×500D×1560H					
刀座数量 Number of tool holders	8	7	6	7	7	6
刀具型号 Tool model	BT-30	BT-40	BT-50	HSK63	HSK80	HSK100
可装刀具总数 Total number of tools that can be installed	40	35	30	35	35	30

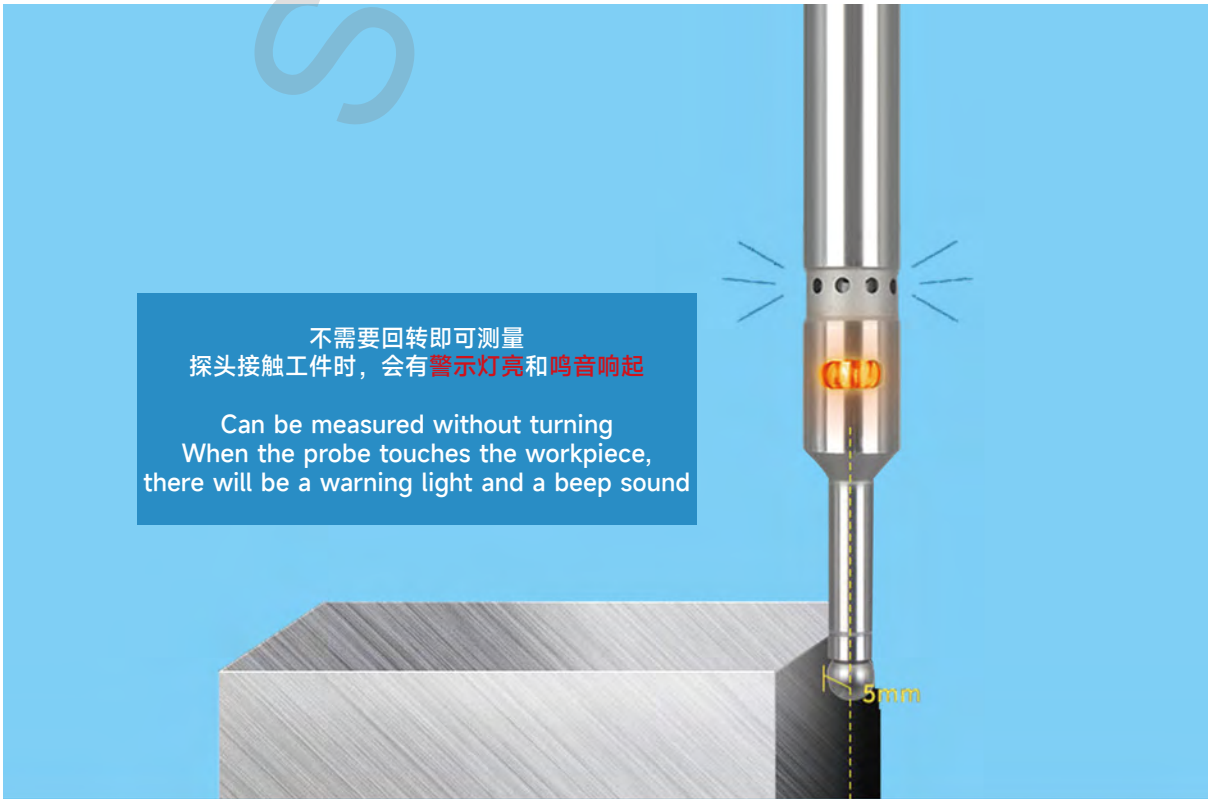


Model	D	L	d	wt.
ES-20	20	160	10	0.28

作用：
夹持在机床上靠近工件找到准确位置用光电方式反馈信息给操作者。

Function:
It's mainly used to for marking sure the center position of the work-piece precisely in the CNC machining.

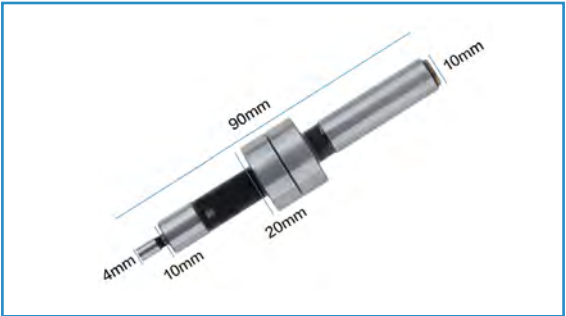
光电式分中棒使用方法 How to use the photoelectric centring rod



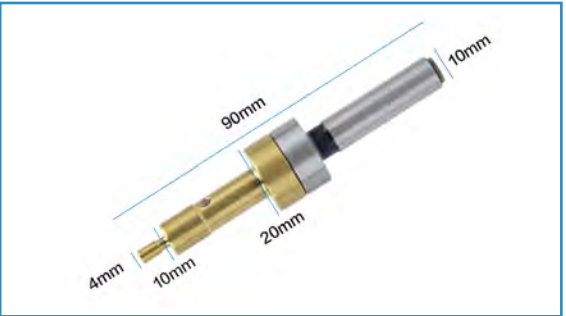
不需要回转即可测量
探头接触工件时，会有警示灯亮和鸣音响起

Can be measured without turning
When the probe touches the workpiece,
there will be a warning light and a beep sound

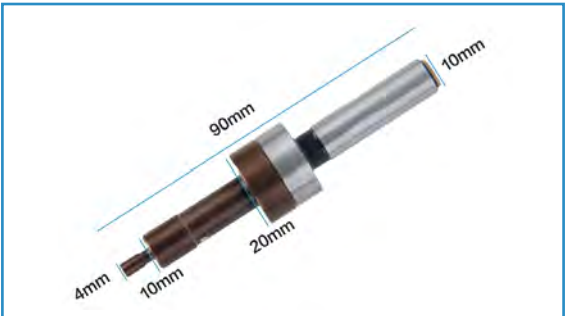
使机床主轴处于停止状态，控制测头缓慢接近工作面，当测头与工作面接触的瞬間，LED 指示灯发光同时发出提示音，此时机床主轴与工作平面的距离为 5mm
Make the spindle of the machine tool stop and control the probe to approach the working surface slowly. When the probe is in contact with the working surface, the LED indicator lights up At the same time, a prompt sound is issued, and the distance between the machine tool spindle and the working plane is 5mm



普通有磁 /Ordinary magnetic



黄钛无磁 /Yellow Titanium non-magnetic



紫钛无磁 /Purple titanium non-magnetic



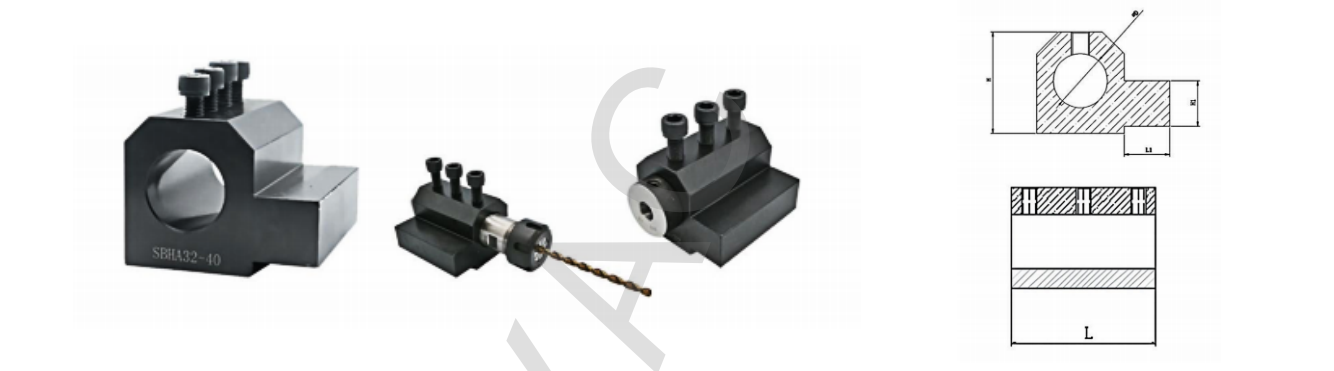
陶瓷直身式 Ceramic straight body

适合转速：400-600RPM
Suitable speed: 400-600RPM
应用场景：传统铣床 / 综合加工机械
Application scenario:
Traditional milling machine Comprehensive processing machinery

3D 寻边器 3D Edge Finder



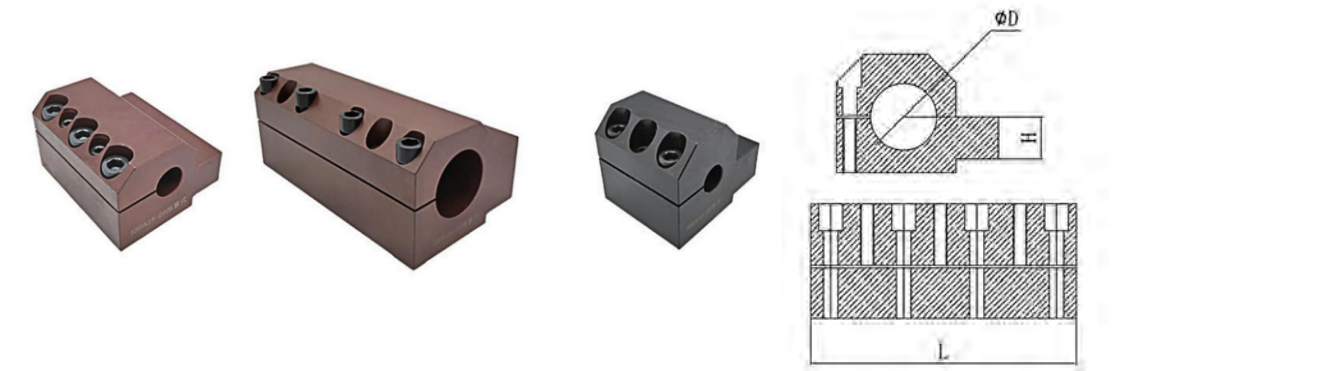
Mode	分度值 Grad.(mm)	精度 Accuracy (mm)	测量范围 Range(mm)	直测头长度 (mm)	弯测头长度 (mm)	中心顶尖长度 (mm)	夹持柄直径 (mm)	量头直径 (mm)
1803-101	0.01	0.02	0-3	45,100,154	46,100,154	52.5	10	3
Model	分度值 Grad.(mm)	测量范围 Range(mm)		精度 Accuracy(mm)		测量深度 Depth(mm)	探针直径	固定针直径
1804-101	轴向	径向	轴向	径向	0.008	30	Sφ4	φ20
	0.003	0.01	0-10	0-6				



Model	HT	L1	D	H	L
SBHA12-20	12	15	20	35	65
SBHA16-16	16	20	16	44	65
SBHA16-20	16	20	20	44	65
SBHA16-25	16	20	25	44	65
SBHA20-16	20	20	16	47	65
SBHA20-20	20	20	20	47	65
SBHA20-25	20	20	25	47	65
SBHA20-32	20	20	32	57	80
SBHA20-40	20	20	40	65	90
SBHA25-16	25	25	16	53	70
SBHA25-20	25	25	20	53	70
SBHA25-25	25	25	25	53	70
SBHA25-32	25	25	32	60	80
SBHA25-40	25	25	40	67	90
SBHA25-50-120	25	32	50	83	120
SBHA32-20	32	32	20	67	90
SBHA32-25	32	32	25	67	90
SBHA32-32	32	32	32	66	90
SBHA32-40	32	32	40	75	100
SBHA32-40-125	32	32	40	75	125
SBHA32-50-120	32	32	50	83	120
SBHA40-40	40	40	40	90	130
SBHA40-50	40	40	50	93	130
SBHA40-60	40	40	60	95	180

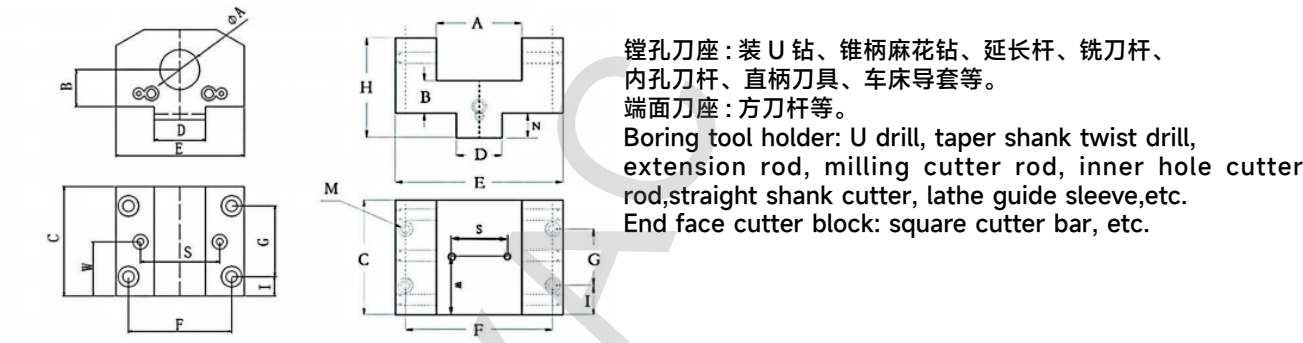
用于四工位车床电动刀架，可配合装夹导套。内径车刀、延长杆、麻花钻、U 钻等刀具。
Used for four station lathe electric tool holder,can be fitted with clamp guide sleeve.Insidediameter turning tool, extension rod, twist drill,U drill and other tools.

装夹方便、中心高准确、不用对刀等特点。
Convenient clamping, center high accuracy, no knife, etc.



Model	H	D	L
SBHA20-32-140L 抱紧式	20	32	140
SBHA25-20-100L 抱紧式	25	20	100
SBHA25-25-100L 抱紧式	25	25	100
SBHA25-32-140L 抱紧式	25	32	140
SBHA25-40-120L 抱紧式	25	40	120
SBHA25-40-160L 抱紧式	25	40	160
SBHA25-50-140L 抱紧式	25	50	140
SBHA25-50-200L 抱紧式	25	50	200
SBHA25-60-200L 抱紧式	25	60	200
SBHA32-20-80L 抱紧式	32	20	80
SBHA32-25-120L 抱紧式	32	25	120
SBHA32-32-150L 抱紧式	32	32	150
SBHA32-40-120L 抱紧式	32	40	120
SBHA32-40-160L 抱紧式	32	40	160
SBHA32-50-140L 抱紧式	32	50	140
SBHA32-50-200L 抱紧式	32	50	200
SBHA32-60-180L 抱紧式	32	60	180
SBHA40-40-160L 抱紧式	40	40	160
SBHA40-50-210L 抱紧式	40	50	210
SBHA40-60-180L 抱紧式	40	60	180
SBHA40-60-200L 抱紧式	40	60	200

适用于钨钢阻尼刀杆
Suitable for tungsten steel damping tool bar



镗孔刀座：装 U 钻、锥柄麻花钻、延长杆、铣刀杆、内孔刀杆、直柄刀具、车床导套等。
端面刀座：方刀杆等。
Boring tool holder: U drill, taper shank twist drill, extension rod, milling cutter rod, inner hole cutter rod, straight shank cutter, lathe guide sleeve, etc.
End face cutter block: square cutter bar, etc.

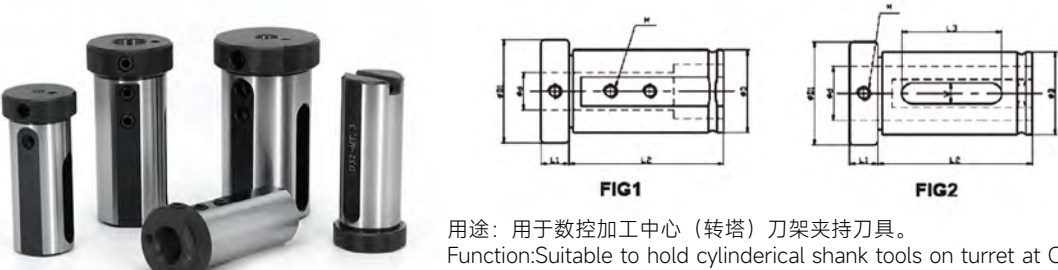
实拍图

F70*G40*D20*A32 F72*G45*D20*A40 F80*G60*D20*A40 F58*G32*D16*A32 F68*G42*D30*A32

实拍图

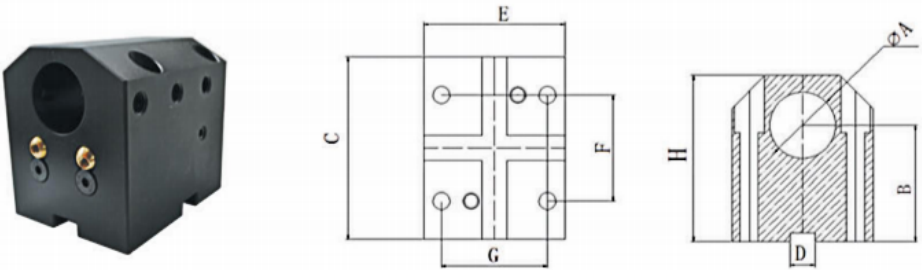
F71*G43*D25*开50 F72*G45*D16*开50 F72*G60*D30*开50 F88*G56*D40*A32 F76*G35*D25凹*A32

刀库导套 Tool Holder Sleeves

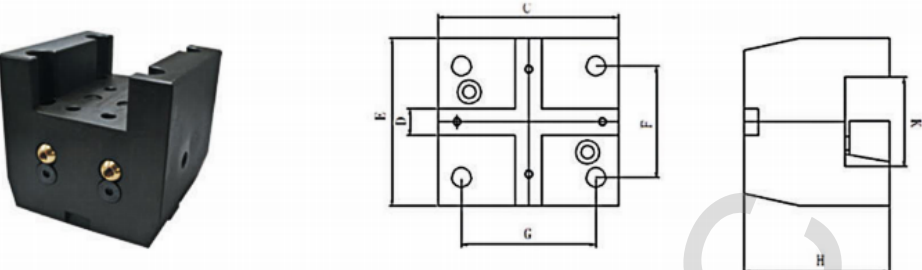


用途：用于数控加工中心（转塔）刀架夹持刀具。
Function: Suitable to hold cylindrical shank tools on turret at CNC lathe.

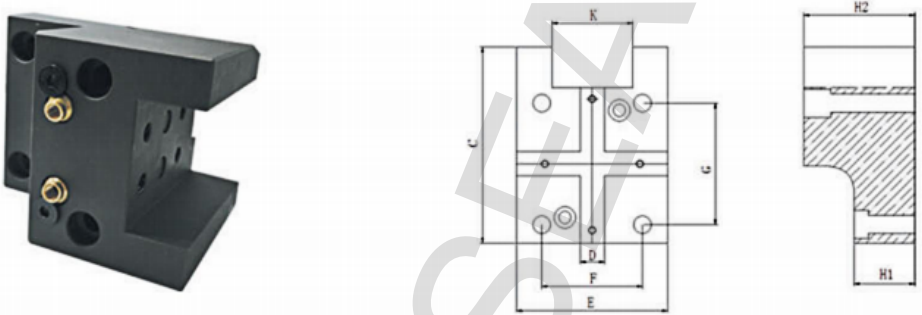
Model	D	D1	L1	L2	L3	W	M	Fig
D40(7PCS)	8;10;12;16;20	46.5	15	80			M8	1
	25;32	46.5	15	80	65	12		2
D32(6PCS)	8;10;12;16	39	14	70			M8	1
	20;25	39	14	70	58	10		2
D25(4PCS)	8;10;12	33	14	50			M8	1
	16	33	14	50	42	10		2
D20(3PCS)	8;10	28	12	50			M8	1
	12	28	12	50	42	8		2
D16(2PCS)	8	24	10	40			M8	1
	10	24	10	40	34	6		2



Model	A	B	C	D	E	F	G	H
BMT40	25	60	92	12	63	50	60	63
BMT45	32	65	95	15	75	58	58	91
BMT55	40	70	110	15	85	64	64	100
BMT65	40	72	126	18	95	73	70	116

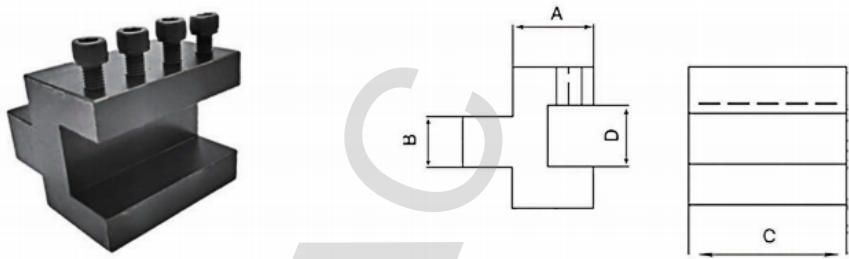


Model	C	D	E	F	G	H	K
BMT40	81	12	75	50	60	65	40
BMT45	90	15	75	58	58	80	40
BMT55	100	15	85	64	64	80	50
BMT65	100	18	96	73	70	82	50



Model	C	D	E	F	G	K
BMT40	97	12	75	50	60	40
BMT45	105	15	75	58	58	40
BMT55	126	15	85	64	64	50
BMT65	131	18	97	73	70	50

延伸刀座 Turning tool extends tool rest



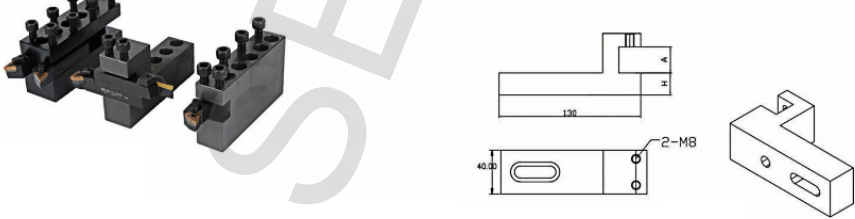
Model	A	B	C	D
20-25	35	20	85	25
25-32	45	25	85	30
32-40	62	32	100	50

车刀压紧块 Turning tool pressing block



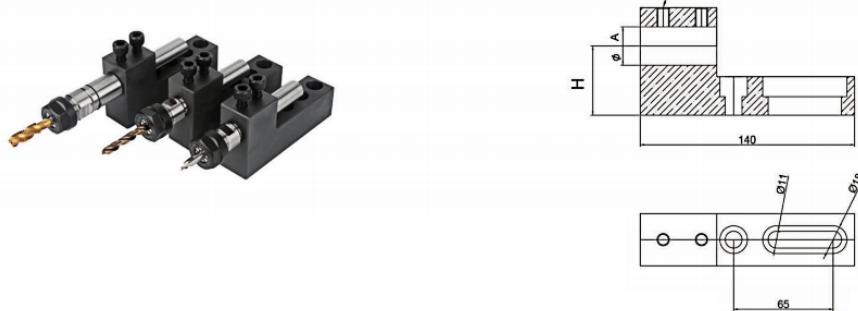
利用楔块压紧原理，可以牢固的压紧车刀。
Using the wedge pressing principle, you can firmly press the turning tool

L 型排刀开口刀座 L- type row cutter with open socket



根据中心高和开口尺寸选择型号，支持非标订做
Select model according to centerheight and opening size, supportnon-standard

L 型排刀内孔刀座 L- type row knife hole holder



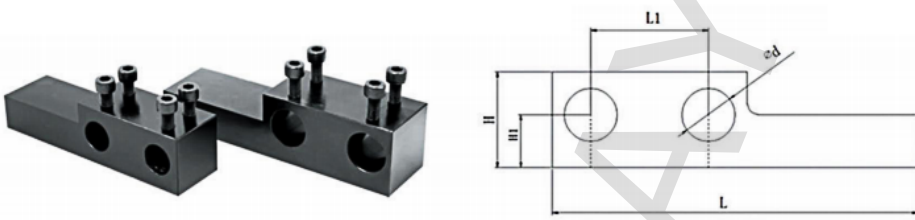
根据中心高和内孔来选择尺寸，支持非标订做
According to the center height and inner hole to choose the size, support non-standard

车床四方刀杆 Lathe Quartet Tool holder



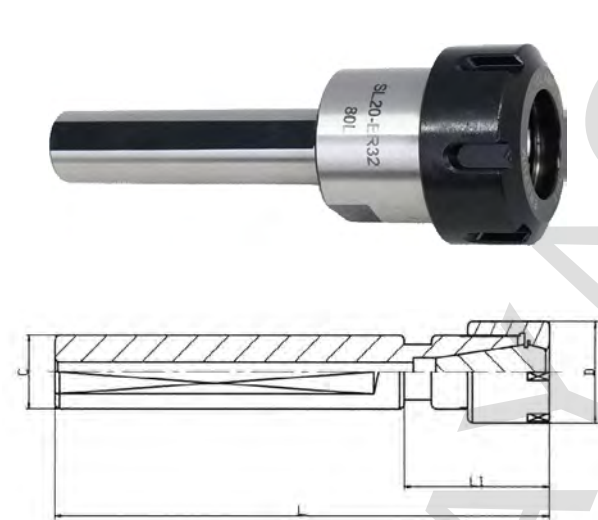
Model No.	L	L1	L2	D	D1	KG
SSTB16-16-ER16	112	32	80	16	28	0.26
SSTB20-20-ER20	118	36	82	20	34	0.36
SSTB22-22-ER20	118	36	82	22	34	0.4
SSTB22-22-ER25	120	40	80	22	42	0.5
SSTB25-25-ER25	121	41	80	25	42	0.54
SSTB25-25-ER32	147	49	98	25	50	0.8
SSTB30-30-ER32	150	50	100	30	50	1.02

双工位刀座 Double station auxiliary tool rest



Model	H1	d	L1	H	L
C20-H20	20	20	50	40	150
C25-H20	20	25	55	45	171
C20-H25	25	20	55	45	171
C25-H25	25	25	55	45	171

用于车床刀架一个刀位安装两把刀具使用，减少换刀省时省力效率更高。
It is used to install two tools in one tool position of lathe tool rest, reducing tool change,saving time and labor and higher efficiency.
如果你需要三工位的刀架，我们也可以订做。
If you need a three-station knife rest, we can also make it to order.



- ◎适用于各式 CNC 车床，走心式或是走刀式等自动车床，可作为一个刀夹（夹钻头、立铣刀、小镗刀等），可以通过吸收震动提高效率。
- ◎材质：42CrMo
- ◎硬度：HRC52
- ◎内孔同心度：0.005mm
- ◎夹持柄位有消平端供刀座侧边螺丝锁固。
- ◎ Applicable to a variety of CNC lathes,Swiss Type,or walk the knife-type automatic lathes, etc.,can be used as a knife folder (folde drills,end mills, small boring tool,etc.)can be shock-absorbing efficiency.
- ◎ Material:42CrMo
- ◎ Hardness: HRC52
- ◎ Hole c=Concentricity: 0.005mm
- ◎ Clapping handle bit-side leveling screw for locking the side of a knife block.

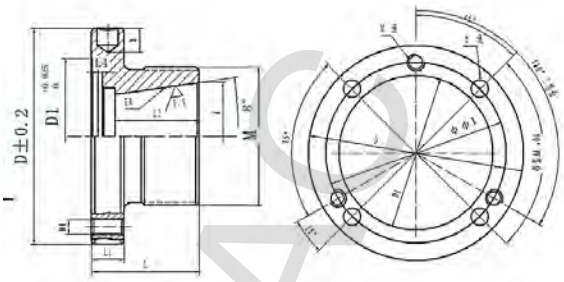
Model	L	L1	C	D
SL20-ER11-60	76.6	16.6	20	16
SL20-ER16-60	86.6	26.6	20	22
SL20-ER20-65	97	D	20	28
SL25-ER16-65	97	32	25	22
SL25-ER20-65	97	32	25	28
SL25-ER25-65	97	32	25	42
SL25-ER25-70	108	38	25	50
SL32-ER16-65	97	32	32	22
SI32-ER20-7C	102	32	32	28
SL32-ER25-70	102	32	32	42
SL32-ER32-70	108	38	32	50
SL32-ER40-70	120	50	32	63
SL40-ER32-70	108	38	40	50
SL40-ER40-75	128	53	40	63
SL45-ER32-120	178	120	45	50
SL45-ER40-120	180	120	45	63
SL1-1/4"-ER25-60	97	60	1-1/4"l	42
SL1-1/4"-ER32-60	103	60	1-1/4"l	50
SL1-1/4"-ER40-60	120	60	1-1/4"l	63
SL1-1/2"-ER32-80	118	80	1-1/2"	50
SL1-1/2"-ER40-75	135	75	1-1/2"ll	63



快速拉料，紧固不打滑
Fast pulling material, fastening without slipping

Mode	柄 (Shank)	加持范围 (Blessing range)
16	圆柄 (round handle)	2.50mm
20		2.50mm
25		2.50mm
32		2-50mm
16	方柄 (square handle)	2.50mm
20		2.50mm
25		2.50mm

ER 夹头座 ER Chuck for Lathe Machine



Model	D	D1	φφ1(固定螺 丝中心距离	M1 三均分	φ 四均分	L	L1	L3 装夹后总 高度	L4 止口深度	M(螺纹)	螺母外径
ER16-45	45	22	35		5	30	10	40	4	M22*1.5	28(A 型六角)
ER20-45	45	22	35		5	30	10	40	4	M25*1.5	34(A 型六角)
ER25-80	80	55	66	M6	6.5	40	12	55	6	M32*1.5	42
ER32-80	80	55	66	M6	6.5	40	12	55	6	M40*1.5	50
ER32-100	100	72	84	M8	8.5	40	12	55	6	M40*1.5	50
ER32-125	125	95	108	M8	8.5	40	12	55	6	M40*1.5	50
ER40-80	80	55	66	M6	6.5	40	12	55	6	M50*1.5	63
ER40-100	100	72	84	M8	8.5	40	12	55	6	M50*1.5	63
ER40-125	125	95	108	M8	8.5	40	12	55	6	M50*1.5	63
ER40-130	130	100	115	M8	8.5	40	12	55	6	M50*1.5	63
ER50-100	100	72	84	M8	8.5	50	18	78	6	M64*2	78
ER50-125	125	95	108	M8	8.5	50	18	78	6	M64*2	78
ER50-130	130	100	115	M8	8.5	50	18	78	6	M64*2	78
ER50-160	160	130	142	M8	8.5	50	18	78	6	M64*2	78

RAP-75° 壳型铣刀盘 RAP-75° Face Mills



Cat.NO	Size(mm)						Circular Cushin	Applicable nserts	Clamp Screw	Wrench
	D	C	H	W	T	a				
RAP400R-50-22-4T	40	16	45	8.5	5	8		APMT 1604 PDER	M4×10	T15
RAP400R-63-22-4T	63	22	50	10.4	6.3	8				
RAP400R-80-27-5T	80	27	50	12.4	7	8				
RAP400R-100-32-6T	100	32	50	14.4	8	8	FMB-32-SHIM			
RAP400R-125-40-6T	125	40	63	16.4	9	8	FMB-40-SHIM			
RAP400R-160-40-6T	160	40	63	16.4	9	8	FMB-40-SHIM			
RAP400R-200-60-9T	200	60	63	25.7	14	8				

90°台肩壳型铣刀盘 90° Shoulder Face Mills



Cat.NO	Size(mm)						Circular Cushin	Applicable inserts	Clamp screw	Wrench
	D	C	H	W	T	a				
TAP400R-50-22-4T	50	20	50	10.4	6.3	14		APMT 1604 PDER	M4×10	T15
TAP400R-63-22-4T	63	22	50	10.4	6.3	14				
TAP400R-80-27-6T	80	27	50	12.4	7	14				
TAP400R-100-32-6T	100	32	50	14.4	8	14	FMB-32-SHIM			
TAP400R-125-40-6T	125	40	63	14.4	8	14	FMB-40-SHIM			
TAP400R-160-40-9T	160	40	63	14.4	8	14	FMB-40-SHIM			
TAP400R-200-60-12T	200	60	63	25.7	14	14				
TAP400R-250-60-12T	250	60	63	25.7	14	14				

EMR 通用型圆鼻铣刀盘 EMR Round Dowel Face Mills



Cat.NO	Size(mm)						Circula Cushin	Applicable nserts	Clamp piece	Screw	Clamp
	D	C	H	W	T	a					
EMR-5R-50-22-4T	50	22	50	10.4	6.3	5		PRMW 1003 MO PRMW 10T3 MOE	A-5R	M4×10	T15
EMR-5R-63-22-4T	63	22	50	10.4	6.3	5					
EMR-5R-80--27-6T	80	27	50	12.4	7	5	FMB-32-SHIM				
EMR-5R-100-32-6T	100	32	50	14.4	8	5					
EMR-6R-50-22-4T	50	22	50	10.4	6.3	6		PRMW 1204 MO	A-6R	M4×10	T15
EMR-6R-63-22-4T	63	22	50	10.4	6.3	6					
EMR-6R-80-27--6T	80	27	50	12.4	7	6					
EMR-6R-100-32-6T	100	32	50	14.4	8	6	FMB-32-SHIM	PRMW 1204 MO	A-6R	M4×10	T15
EMR-6R-125-40-6T	125	40	63	16.4	9	6	FMB-40-SHIM				

KM-45°壳型铣刀盘 KM-45° Face Mills



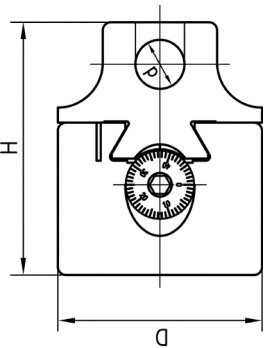
Cat.NO	Size(mm)						Circular Cushin	Applicable inserts	Clamp screw	Wrench
	D	C	H	W	T					
KM12-50-22-4T	50	22	50	10.4	6.3			SEKT1204	A501105D M5×11	T20F T20
KM12-63-22-4T	63	22	50	10.4	6.3					
KM12-80-27-5T	80	27	50	12.4	7					
KM12-100-32-5T	100	32	50	14.4	8	FMB-32-SHIM				
KM12-125-40-6T	125	40	63	16.4	8	FMB-40-SHIM				
KM12-160-40-9T	160	40	63	16.4	9	FMB-40-SHIM				



F1-25mm (4")

F1-18mm (3")

F1-12mm (2")



Model	D	H	Max Offset	Boring Bar Dia	Min Graduation	Dia.of Boring
F1-2"	2"	2-7/16"	5/8"	1/2"	0.01mm	3/8"-5"
F1-3"	3"	3-5/32"	1"	3/4"	0.01mm	1/2"-9"
F1-4"	4"	3-1/2"	1-5/8"	1"	0.01mm	5/8"-25"
F1-12mm	50	63	16mm	12mm	0.01mm	10-125mm
F1-18mm	75	80	25mm	18mm	0.01mm	12-225mm
F1-25mm	100	88	41mm	25mm	0.01mm	15-320mm

F1 型镗刀 F1 Rough Boring Cutters



9PCS for 12mm



12PCS for 18mm



6PCS for 25mm

Metric			Inch		Qty.of Boring Cutters	Bar Thread
Dia.of Boring Holes	Dia.of Boring Heads	Boring Capacity	Dia.of Boring Heads	Dia.of Boring Heads		
F1-12mm	50mm	10-125mm	F1-2"	1/2"	9PCS	7/8-20 1-1/2-18
F1-18mm	75mm	12-225mm	F1-3"	3/4"	12PCS	1-1/2-18
F1-25mm	100mm	15-320mm	F1-4"	1"	6PCS	1-1/2-18

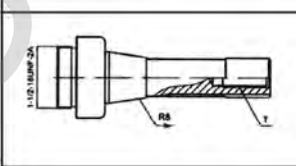
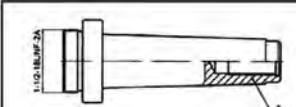
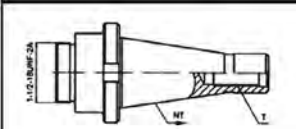
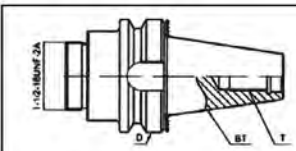


硬质合金镗杆 Boring cutters with replaceable inserts

Model	长度 Length(MM)	搭配刀片 Matching blade	Model	长度 Length(MM)	搭配刀片 Matching blade
2"-6pcs	70	CCMT06	3"-7pcs	80	TCMT09
	75	TCMT09		80	CCMT06
	80	CCMT06		90	CCMT06
	90	TCMT11		90	CCMT09
	90	TCMT11		110	TCMT11
	105	TCMT09		115	TCMT11
				120	TCMT11

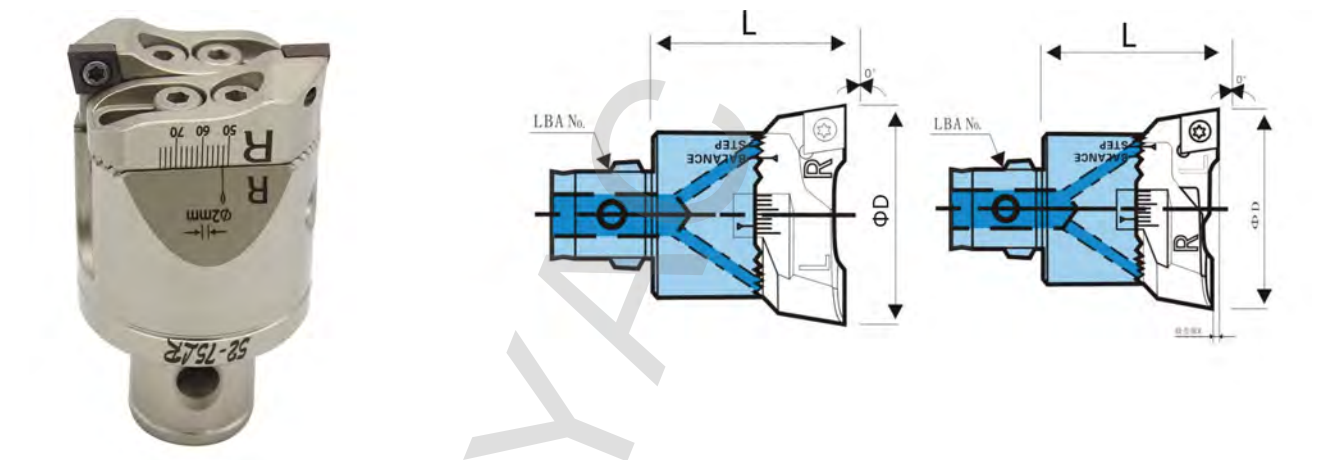


Model	T	L	Wt.
BT40	M16-2.0P	102	1.24
BT50	M24-3.0P	134	3.97
NT30	1/2-UNC	102	0.6
NT30	M12-1.75P	102	0.6
NT40	5/8-UNC	135	1.2
NT40	M16-2.0P	135	1.2
NT50	1"-8UNC	168	3.14
NT50	M24-3.0P	168	3.14
MT2	3/8-16UNC	93	0.4
MT2	M10-1.5P	108	0.4
MT3	3/8-16UNC	110	0.44
MT3	1/2-13UNC	110	0.44
MT3	1/2-12UNC	110	0.44
MT3	M12-1.75P	128	0.44
MT4	5/8-11UNC	133	0.95
MT4	M16-2.0P	154	0.95
MT5	1"-8UNC	160	1.7
MT5	M24-3.0P	185	1.7
R8	7/16-20UNF	132.5	0.6



*Please state the detailed size when ordering; e.g.: F1-R8-18mm

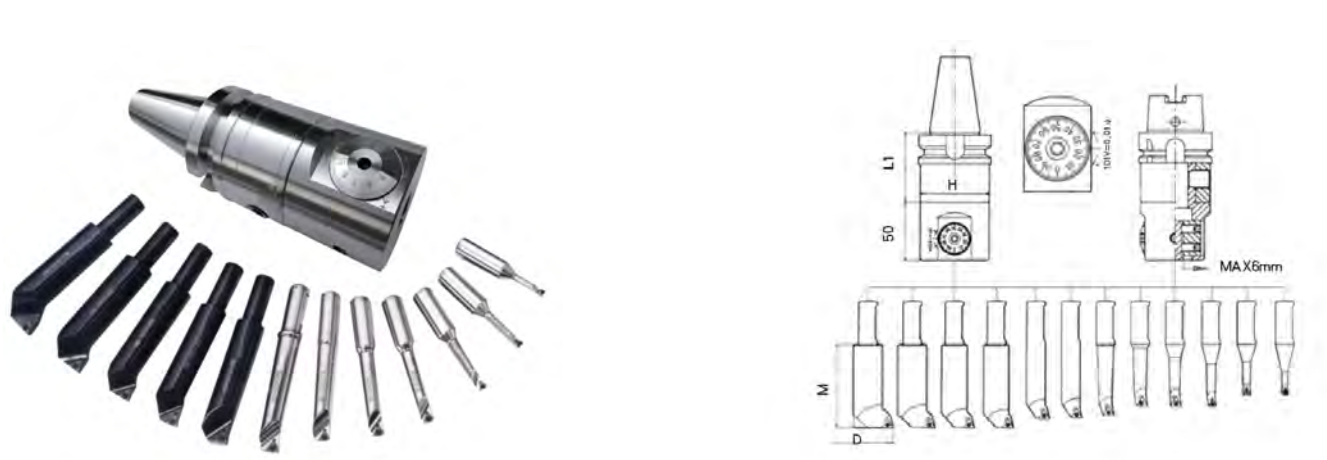
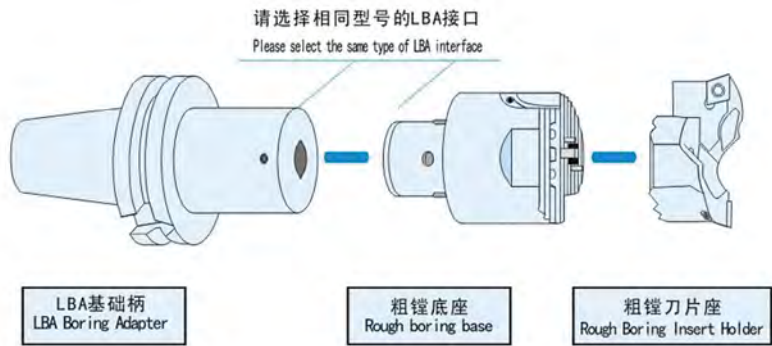




镗头型号 Specification	刀柄接口 LBA No.	镗孔范围 Boringrange φD	L	刀片型号 / 螺丝 / 扳手 Insert/Screw/Wrench	重量 Weight(kg)
RBA20-25	LBK1(11mm)	20-25mm	33mm	CCMT06020*/M2.5/T8	0.05
RBA25-33	LBK2(14mm)	25-33mm	37mm		0.1
RBA32-45	LBK3(18mm)	32-45mm	41mm		0.2
RBA40-55	LBK4(22mm)	40-55mm	50mm	CCMT09T30*/M4.0/T15	0.4
RBA52-75	LBK5(28mm)	52-75mm	59mm		0.8
RBA68-95	LBK6(36mm)	68-95mm	70mm	CCMT12040*/M5.0/T20	1.6
RBA90-110		90-110mm			1.7

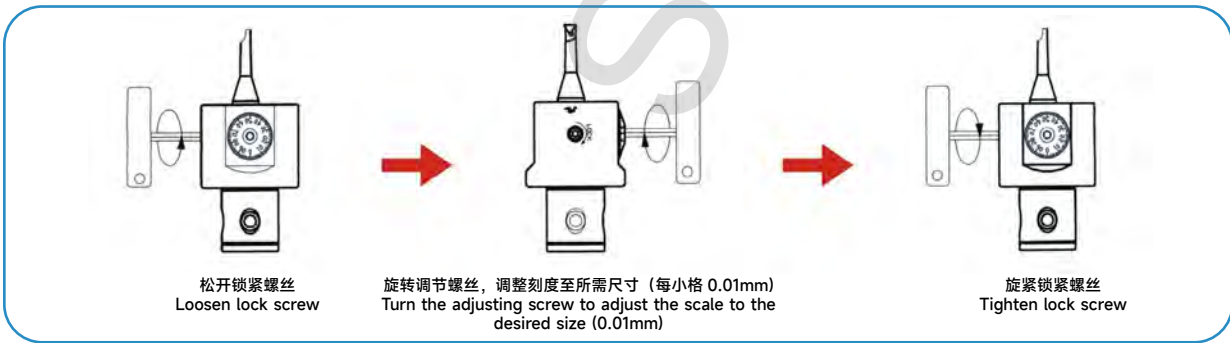


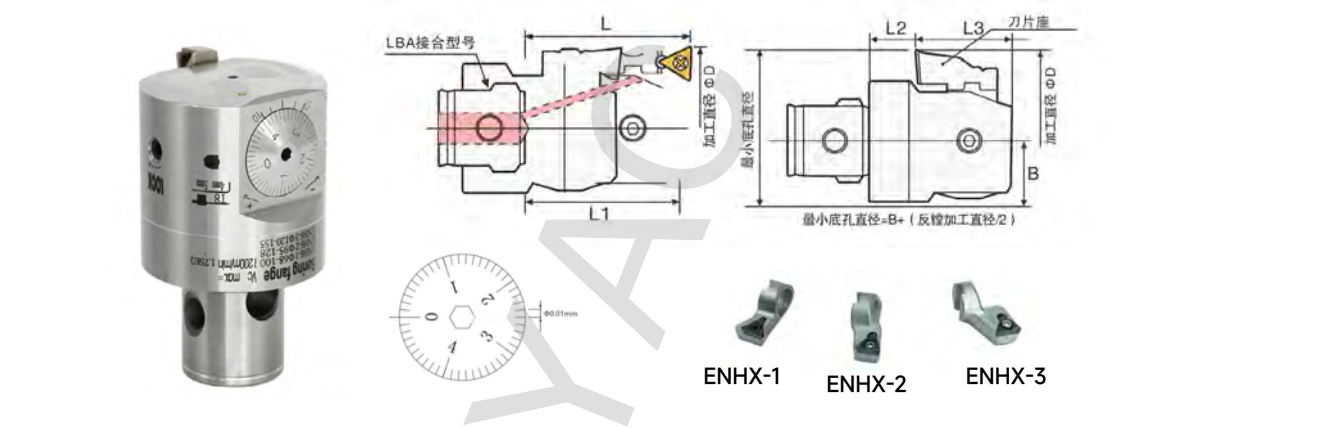
镗头型号 Specification	镗头刀柄 Boringadapter	镗孔范围 Boringrange φD	L	刀片型号 / 螺丝 / 扳手 Insert/Screw/Wrench	重量 Weight(kg)
RBA110-160	BST	110-160mm	99mm	CCMT12040*/M5.0/ T20	3.5
RBA160-204		160-204mm	99mm		3.9



型号 Cat.No	镗孔范围 Boring range	调整精度 Adjustment precision	调整行程 Stroke	重量 Weight
SBJ16	φ6-φ51	φ0.01mm/ 格 φ0.01mm/scale division	6.0mm	1.2

镗孔刀杆 Boring	范围 Range	深度 Depth	镗刀 片 Insert	螺丝 Screw	扳手 Wrench	重量 Weight
BJ1606-24	6-9	24	WBGT0601..L	SB-1STR-M2	T6	0.08
BJ1608-32	8-11	32	TBG0601..L	SB-1STR-M2	T6	0.08
BJ1610-40	10-13	40	TPGH0902..L	SB2TR-M2.5	T8	0.10
BJ1612-53	12-15	53				0.10
BJ1614-60	14-17	60				0.12
BJ1616-68	16-21	68	TPGH1103..L	SB-3TR-M3	T8	0.20
BJ1620-83	20-26	83				0.30
BJ1625-90	25-31	90				0.32
BJ1630-90	30-36	90				0.32
BJ1635-90	35-41	90				0.38
BJ1640-90	40-46	90				0.38
BJ1645-90	45-51	90				0.45
BJ1616-150(加长)	16-21	90				0.45
BJ1620-150(加长)	20-26	150				0.45
BJ1625-150(加长)	25-31	150				0.45
BJ1630-150(加长)	30-36	150				0.45





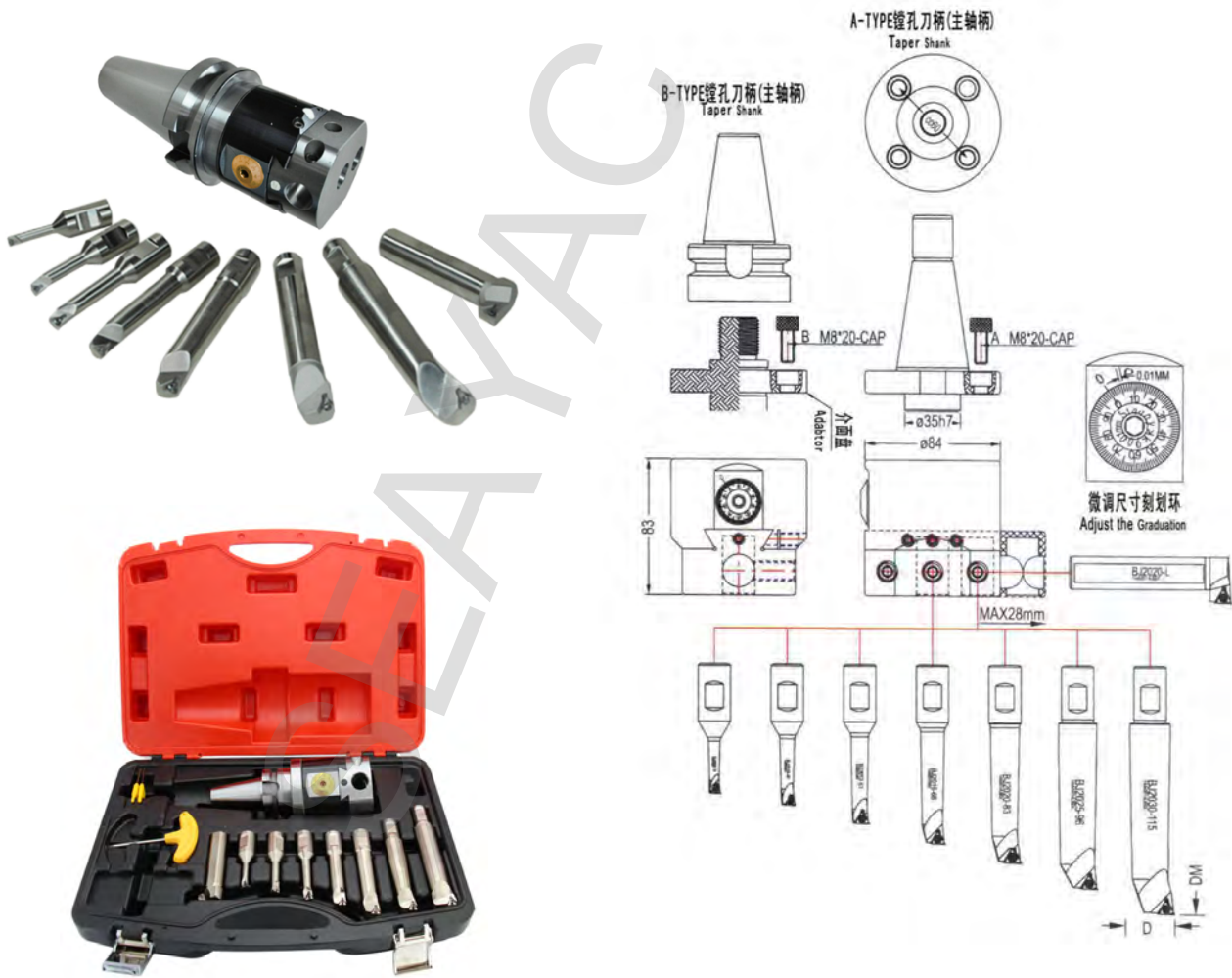
镗头型号 Specification	刀片座 Insertholder	正镗			反镗			刀柄接口 LBANo.	刀片型号螺丝 / 扳手 Insert/Screw/Wrench	重量 Weight (kg)
		镗孔范围 Boringrange φD (mm)	L (mm)	L1 (mm)	镗孔范围 Boringrange φD (mm)	L2	L3	B		
CBA20	ENH1-1	20-25	30	27	/	10.5	19	10	LBK1 (11mm)	0.05
	ENH1-2	25-29			30-31					
	ENH1-3	30-34			30-36					
CBA25	ENH2-1	25-33	34	31	/	11.5	21	12.5	LBK2 (14mm)	0.15
	ENH2-2	32-40			36-40					
	ENH2-3	39-47			39-47					
CBA32	ENH3-1	32-43	41	37	/	10	25	16	LBK3 (18mm)	0.25
	ENH3-2	41-51			46-51					
	ENH3-3	50-60			50-60					
CBA40	ENH4-1	41-56	50	42	/	14	29	20	LBK4 (22mm)	0.45
	ENH4-2	51-67			53 -63					
	ENH4-3	64-77			64-79					
CBA52	ENH5-1	52-74	60	56	62-70	19	34	25.5	LBK5 (28mm)	0.9
	ENH5-2	64-87			65-82					
	ENH5-3	77-100			78-95					
CBA68	ENH6-1	68-103	70	66	80-100	22	45.2	32.5	LBK6 (36mm)	1.75
	ENH6-2	95-128			94-126					
	ENH6-3	118-153			118-150					
CBA100	ENH6-1	100-152	70	66	112-153	22	45.2	45.5	LBK6 (36mm)	2.46
	ENH6-2	126-179			126-179					
	ENH6-3	151-203			150-203					

○ 每一个镗头本体均配有三个不同加工范围的刀片座，来扩大本体的加工尺寸。
○ Each boring head is equipped with three different insert holders to extend boring ranges.
○ CBA 精密镗头均具备内冷却功能，延长刀片使用寿命。
○ The service life of insert will be prolonged with internal cooling design.
○ 每格调整尺寸为直径 0.01mm。
○ Each division for the adjustment is 0.01mm

所有单刃精密镗头号刀片座都是自带不需要购买 ;2 号 3 号刀片座需要另外购买。
Notice: No.1insert hold is included in the price of boring tool, while NO.2 and NO.3 insert holders shall be ordered separately



镗头型号 Specification	形状图 Figure	对应镗头 Boring head	镗孔范围 Boring range
刀片座 ENH1-1 Insert holder Enh1-1	对应刀片 TP08	CBA20	20-26mm
刀片座 ENH1-2 Insert holder Enh1-2			25-31mm
刀片座 ENH1-3 Insert holder Enh1-3			30-36mm
刀片座 ENH2-1 Insert holder Enh2-1		CBA25	25-33mm
刀片座 ENH2-2 Insert holder Enh2-2			32-40mm
刀片座 ENH2-3 Insert holder Enh2-3			39-47mm
刀片座 ENH3-1 Insert holder Enh3-1		CBA32	32-42mm
刀片座 ENH3-2 Insert holder Enh3-2			41-51mm
刀片座 ENH3-3 Insert holder Enh3-3			50-60mm
镗头型号 Specification	形状图 Figure	对应镗头 Boring head	镗孔范围 Boring range
刀片座 ENH4-1 Insert holder Enh4-1	对应刀片 TP08	CBA40	40-55mm
刀片座 ENH4-2 Insert holder Enh4-2			51-66mm
刀片座 ENH4-3 Insert holder Enh4-3			64-79mm
刀片座 ENH5-1 Insert holder Enh5-1	对应刀片 TC11	CBA52	52-75mm
刀片座 ENH5-2 Insert holder Enh5-2			70-93mm
刀片座 ENH5-3 Insert holder Enh5-3			89-112mm
刀片座 ENH6-1 Insert holder Enh6-1		CBA68	68-100mm
刀片座 ENH6-2 Insert holder Enh6-2			94-125mm
刀片座 ENH6-3 Insert holder Enh6-3			118-150mm



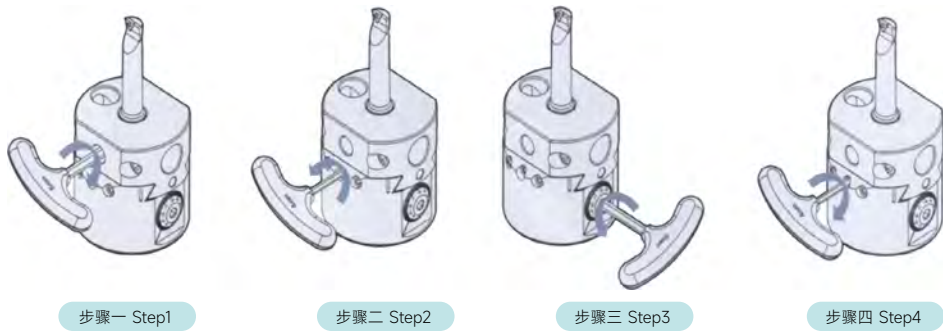
八只套装 Eightsuit NBJ20-8pcs	镗刀型号 Boring bar type		
	NBJ2010-40	NBJ2016-68	NBJ20-20L
	NBJ2008-32	NBJ2020-83	NBJ2030-115

型号 Model	镗孔范围 Boring range	组合系统 - 主轴柄规格 Spinde models	内附零件 Items	重量 Weight
BT40-NBH2084-8pcs	8-280	MAS403-BT40-NBH2084	1.NBH- 主轴刀柄 一把 One boring adapter NBH2084. 2.NBH2084 精 密镗刀头一支 One micro boring head NBH2084 3.NBJ20 精镗 刀柄八只 Eight micro boring bars NBJ20 4. 扳手六只 Six wrenches	9.5
BT50-NBH2084-8pcs	8-280	MAS403-BT50-NBH2084		12
NT30-NBH2084-8pcs	8-280	DIN2080 ISO30-NBH2084		8
BT40-NBH2084-8pcs	8-280	DIN2080 ISO40-NBH2084		9.5
BT50-NBH2084-8pcs	8-280	DIN2080 ISO50-NBH2084		10.8
R8-NBH2084-8pcs	8-280	R8-UNF7/16-20-NBH2084		10.0
SK40-NBH2084-8pcs	8-280	DIN69871A ISO40-NBH2084		9.5
SK50-NBH2084-8pcs	8-280	DIN69871A ISO50-NBH2084		12.0
MT4-NBH2084-8pcs	8-280	DIN228AMT4-NBH2084		8.5
MT5-NBH2084-8pcs	8-280	DIN228AMT5-NBH2084		9.0

使用步骤 /Operating Instructions

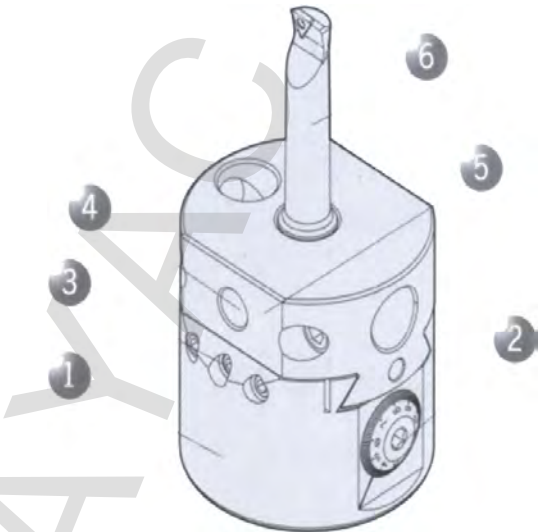
- 步骤一：选择加工范围内刀杆（图），置于镗头安装孔内（A图B图C图），使刀杆削平面对准固定螺丝紧固方向，并确认刀尖处于镗头微调下方向；
- 步骤二：松开微调锁紧螺钉（图）逆时针旋转；
- 步骤三：调整微调旋钮（图）逆时针使加工尺寸增大，反之减少。调整尺寸时，请按同方向微调，以确保微调精度。精度为每小格 0.01mm
- 步骤四：微调至所需尺寸后，以适当扭力锁紧微调锁紧螺钉（图）顺时针旋转。
- Step1: Hold right boring bar(See figure 6) in right hole(See pic AB.C . Make sure weldon part of bar is to the position of lok screw ard autting edge of boring bar is to the position of adjusting panel.
- Step2: Loosen adjusting screw anti-clockwise .
- Stan3: Ealarge the boring diameter by adjusting on the adjusting panel(Se figure 2) anti-tlockwise,mhile adjusting clockwise is to reduce the boring range.
- Step4: Adjust till the boring diameter required and lock the adjusting screw properly.

操作示意图 Instruction



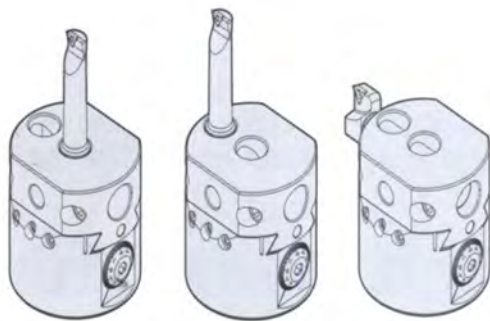
产品结构 /Manuals

- 1 镗头本体 Tool body
- 2 微调旋钮 Ad justing Panel
- 3 微调锁紧螺钉 Ad justing screw
- 4 镗刀杆锁紧螺钉 Locking screw
- 5 移动滑块 Part
- 6 镗刀杆 Boring bar



使用者注意事项 /Notices Of The User

1. 请在加工范围内（8-280mm）使用。
2. 调整微调旋钮前必须松开微调锁紧螺钉，否则会导致微调机构损坏。
3. 请使用专用扳手固定微调锁紧螺钉，扭力要适当，过紧会导致芯轴移位。过松会造成精度不良。
4. 本产品为精密机构，当阻力过大微调刻度盘无法旋转时，请立刻停止调整，并确认以下事项。
- A. 微调锁紧螺钉是否松开；
- B. 是否超出调整范围；
- C. 当过度旋转调整刻度盘会微调导致精密机构损坏。
- 1.Please use this tool within work range(6-50mm) .
- 2.Please loosen the adjusting screw before ad justing.
- 3.Please fasten the adjusting knob by means of special wrench properly.4.Please stop the adjustmant when it is faced with a strong resistance,Or it is notable to go on And make sure.
- A If the locking screws is unlocked;
- B.if the adjustment is within the suggested work range;
- C.Over adjustment will bring damage to the tool irreversibly.



使用步骤 /Operating Instructions

准备工作：须先确认刀片按照是否匹配，刀片座紧固螺丝是否锁紧
步骤一：松开微调锁紧螺钉（逆时针旋转）图
步骤二：旋转微调刻度盘（图）顺时针旋转使加工直径增大，逆时针旋转加工直径缩小（刻度盘每一格为直径 0.01mm）
步骤三：调整尺寸加工时，请按同方向选转结束，以确保微调精度
步骤四：以适当力度扭紧微调锁紧螺钉（顺时针旋转）图完成调整

Checking before adjustment:Make sure right inserts mounted and screwfor insert holder fastened properly.
Step 1:Unlock the clamping screw(See figure 1)anti-clockwise.
Step 2:Move the insert holder(See figure 2,3)to the required working diameter according to the reference line marked on the tool and insert holdet.Step 3:Fasten the clamping screws(See figure 4)clockwise.
Step 4:Loosen the locking screw(See finure 1)anti-clockwise.

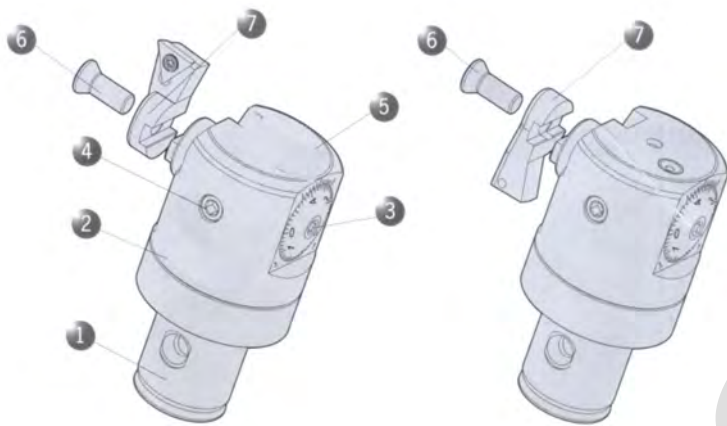
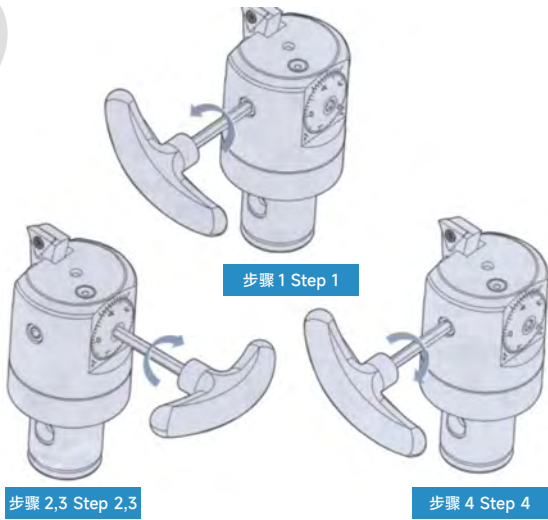
产品结构 /Manuals

- 1 镗头柄部 Connection part
- 2 镗头本体 Tool body
- 3 微调刻度盘 Adjusting scales
- 4 微调锁紧螺钉 Locking screw
- 5 注油孔 oil-feed hole
- 6 刀片座锁紧螺钉 Clamping screw
- 7 刀片座 Insert holder

使用者注意事项 /Operating Instructions

- 1. 请在调整范围内加工使用。
- 2. 调整微调刻度盘前，必须松开微调锁紧螺钉，否则会对内部精密机构造成损坏。
- 3. 本品是由调整微调刻度盘带动精密螺杆旋转，来实现刀片座移动。
在阻力遇大或无法旋转时，请立即停止调整，并确认以下事项：
A. 微调锁紧螺钉是否松开；
B. 是否超出调整范围。
- 4. 使用反镗功能时，主轴必须反转。
- 5. 用户须注入润滑油（图），润滑油的注入量以从刻度盘周围渗出为止，润滑油的作用不但起到润滑的作用，还可以清除渗入冷却液和杂质，为了防止长时间不使用而使润滑油脂硬化，请定期转动刻度盘 .6. 请客户不要自行拆开镗头。
- 1.Use this tool within the suggested boring range.2.Please loosen the adjusting screw before adjusting.
- 3.Please stop the adjustment when it is faced with a strong resistance.And make sure:
A If the locking screws is unlocked;
B.If the adjustment is within the suggested work range;
- 4.The machine spindle shall run anti-clockwise when the function of back boring is adopted.
- 5.Lubrication grease shall be injected through the oil-feed hole properly(till some lubrication greasecan be found on the face of ad justing panel).
- 6.Disassembling of the tool without suggestion is not suggested.

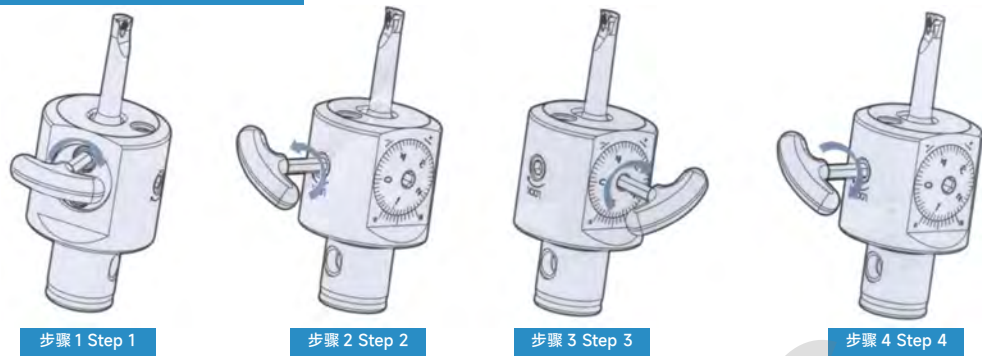
操作示意图 Instruction



使用步骤 /Operating Instructions

步骤一：选择加工范围内刀杆，至于镗头按照孔内，使刀杆削平面对准固定螺丝紧固方向，并确认刀尖处于镗头微调正方向，扭紧刀杆锁紧螺钉（图）
步骤二：松开微调锁紧螺钉（图）逆时针旋转。
步骤三：调整微调旋钮（图）顺时针使加工尺寸增大，反之减少。调整尺寸时，请按同方向微调，以确保微调精度。精度为每一格 0.01mm
步骤四：微调至所需尺寸后，以适当扭力锁紧微调锁紧螺钉（图）顺时针旋转。
Step1 : Hold right boring bar in right hole.Make sure weldon part of boring bar is to the position of lock screw and cutting edge of boringbar is to the position of adjusting panel.Fasten the locking screw properly.
Step2: Loosen adjusting screw(see figure 4)anti-clockwise .
Step3: Enlarge the boring diameter by adjusting on the adjusting panel (See figure 2)anti-clockw'se,while adjusting clockwise is to reducethe boring range.
Step4: Adjust till the boring diameter required and lock the adjusting screw properly.

操作示意图 Instruction

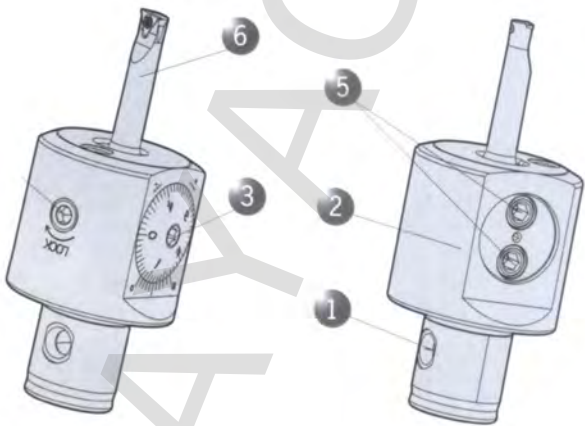


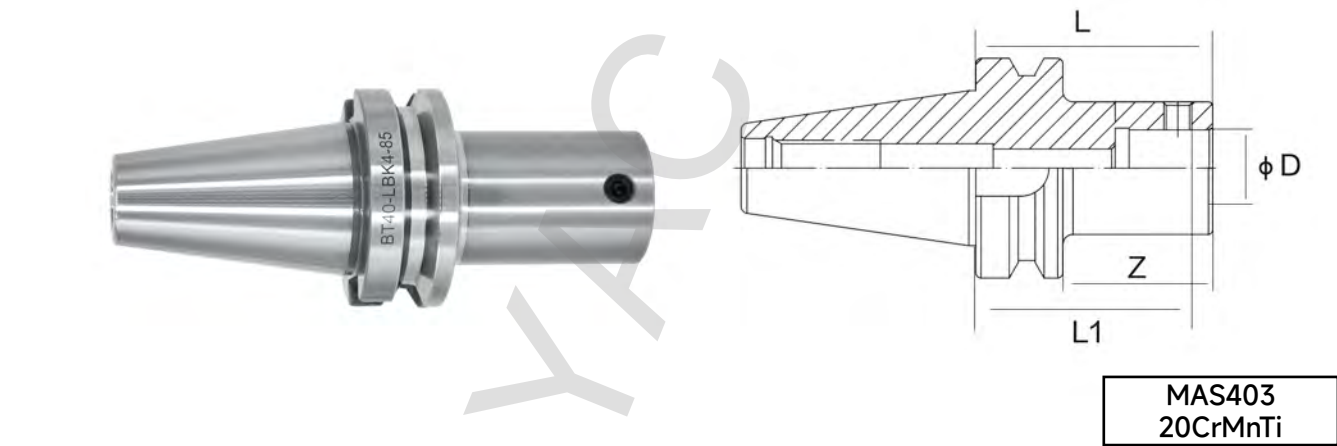
产品结构 /Manuals

- 1 镗头柄部 Connection part
- 2 镗头本体 Tool body
- 3 微调刻度盘 Adjusting scales
- 4 微调锁紧螺钉 Locking screw
- 5 镗刀杆锁紧螺钉 Mounting screw
- 6 镗刀杆 Boring bar

使用者注意事项 /Operating Instructions

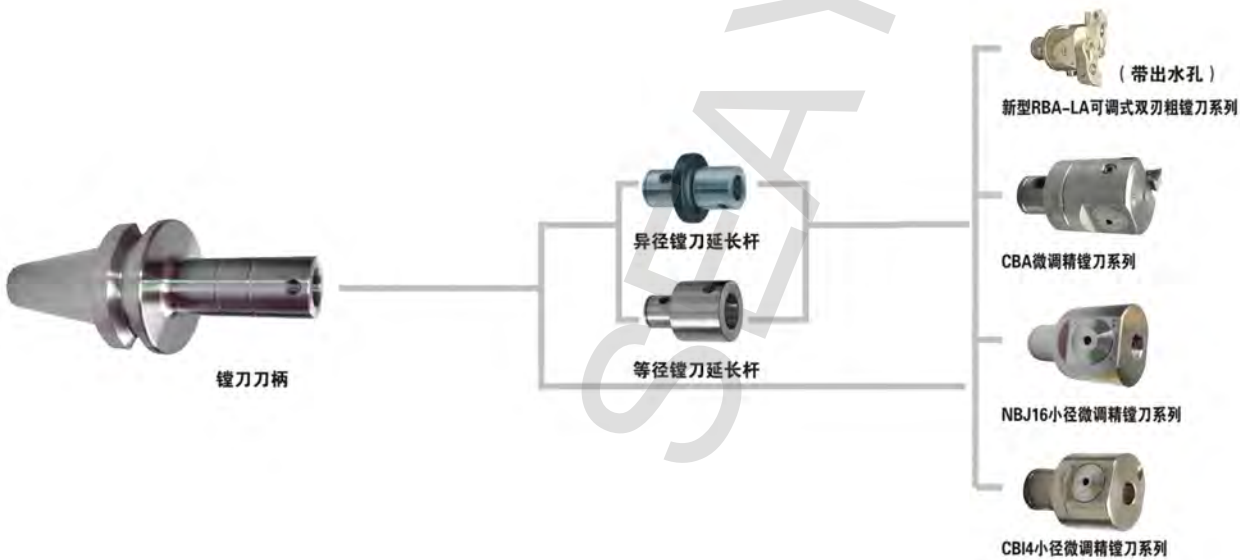
- 1. 请在加工范围内（6-50mm）使用。
- 2. 调整微调旋钮前必须松开微调锁紧螺钉，否则会导致微调机构损坏。
- 3. 请使用专用扳手固定微调锁紧螺钉，扭力要适当，过紧会导致芯轴移位。过松会造成精度不良。
- 4. 本产品为精密机构，当阻力过大微调刻度盘无法旋转时，请立刻停止调整，并确认以下事项。
A. 微调锁紧螺钉是否松开；
B. 是否超出调整范围；
C. 当过度旋转调整刻度盘会微调导致精密机构损坏。
- 1.Please use this tool within work range(6- 50mm)
- 2.Please loosen the adjusting screw before adjusting.
- 3.Please fasten the adjusting knob by means of special wrench properly
- 4.Please stop the adjustment when it is faced with a strong resistance or is unable to contirue adjustment, checkimmediately the ofllowing points:
A.If the locking screws is unlocked;
B.If the ad justment is within the suggested work range;
C.Over adjustment will bring damage to the tool irreversibly.

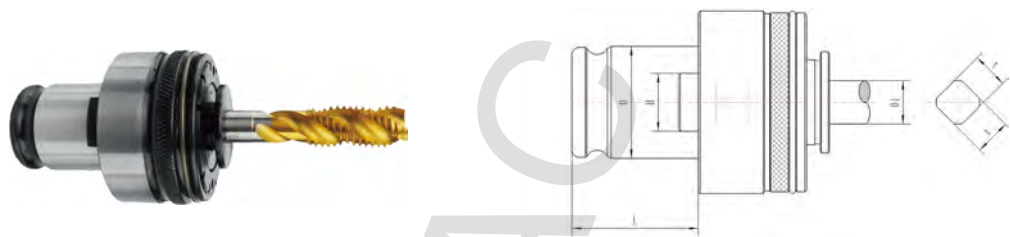




Combination		Height Z	Range OD	Fig.	L	L1	D1	Wt.
LBK Shanks	CBA Head							
BT30-LBK1-70	CBA20	75	20-26-36	2	105	70	19	0.6
BT30-LBK2-80	CBA25	90	25-33-47		120	80	24	0.8
BT30-LBK3-80	CBA32		32-42-60				32	1.0
BT30-LBK4-70	CBA40		40-55-79				39	1.3
BT30-LBK5-60	CBA52		52-75-112				50	1.8
BT30-LBK6-60	CBA68	100	68-102-150		130	60	64	3.0
BT40-LBK1-75	CBA20	75	20-26-36	2	110	75	19	1.1
BT40-LBK1-105		105			140	105		1.3
BT40-LBK2-85	CBA25	90	25-33-47		125	85	24	1.3
BT40-LBK2-115		120			155	115		1.6
BT40-LBK3-95	CBA32	100	32-42-60		135	95	31	1.5
BT40-LBK3-125		130			165	125		1.8
BT40-LBK4-155		160			195	155		2.0
BT40-LBK4-85	CBA40	100	40-55-79		135	85	39	1.8
BT40-LBK4-130		145			180	130		2.4
BT40-LBK5-175		190			225	175		2.7
BT40-LBK5-75	CBA52	100	52-75-112		135	75	50	2.3
BT40-LBK5-125		150			185	125		3.3
BT40-LBK6-175		200			235	175		4.0
BT40-LBK6-65	CBA68	100	68-102-150		135	65	64	3.3
BT40-LBK6-115		150			185	115		4.7
BT40-LBK6-165		200			235	165		5.9
BT40-LBK6-65	CBA100	100	100-152-203		135	65		4.2
BT40-LBK6-115		150			185	115		5.6
BT40-LBK6-165		200			235	165		6.8
BT40-LBK6-65	CBA150	100	150-202		135	65		5.5
BT40-LBK6-115		150			185	115		6.9
BT40-LBK6-165		200			235	165		8.1

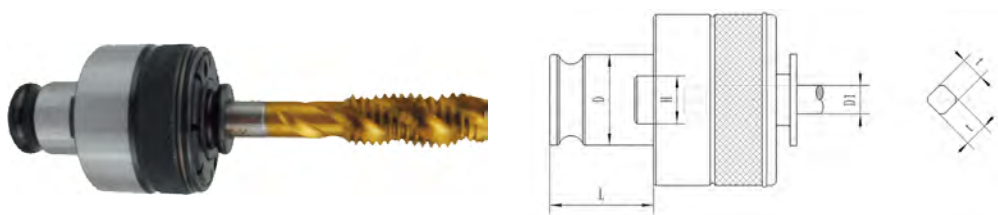
Combination		Height Z	Range OD	Fig.	L	L1	D1	Wt.
LBA Shanks	CBA Head							
BT50-LBK1-115	CBA20	75	20-26-36	1	150	115	31/19	4.1
BT50-LBK1-145		105			180	145		4.2
BT50-LBK2-110	CBA25	105	25-33-47		150	110	24	4.1
BT50-LBK2-140		135			180	140		4.2
BT50-LBK3-125	CBA32	120	32-42-60		165	125	31	4.4
BT50-LBK3-155		150			195	155		4.5
BT50-LBK4-115	CBA40	120	40-55-79		165	115	39	4.8
BT50-LBK4-145		150			195	145		4.9
BT50-LBK4-175		180			225	175		5.3
BT50-LBK4-205		210			225	205		5.4
BT50-LBK5-105	CBA52	120	52-75-112		165	105	50	5.5
BT50-LBK5-180		195			240	180		6.5
BT50-LBK5-240		25			300	240		7.2
BT50-LBK5-300		255			360	300		8.6
B150-LBK6-95	CBA68	120	68-102-150		165	95	64/50	6.5
BT50-LBK6-170		195			240	170		8.3
BT50-LBK6-230		255			300	230		9.6
BT50-LBK6-290		315			360	290		11.0
BT50-LBK6-350		375			420	350	64	15.5
BT50-LBK6-350		375			420	350	90/64	13.2





丝锥另购 Taps sold separately

Model	D		H	L	攻丝范围 Tapping range						
TC312	19		10	21.5	M3-M12						
TC820	31		16	35	M5-M30						
TC1433	48		25	55.5	M24-M42						
TC312 夹持丝锥规格 Clamping tap specifications											
ISO 国标 丝锥规格	丝锥尺寸 Tap size		JIS 日标 丝锥规格	丝锥尺寸 Tap size		DIN 德标 丝锥规格	丝锥尺寸 Tap size				
	柄径 D1	四方 t		柄径 D1	四方 t		柄径 D1	四方 t			
	M3	3.15		2.5	M3		4	3.2	M3	3.5	2.7
	M4	4		3.15	M4		5	4	M4	4.5	3.4
	M5	5		4	M5		5.5	4.5	M5	6	4.9
	M6	6.3		5	M6		6	4.5	M6	6	4.9
	M8	6.3		5	M8		6.2	5	M8	8	6.2
	M10	8		6.3	M10		7	5.5	M10	10	8
	M12	9		7.1	M12		8.5	6.5	M12	9	7
TC820 夹持丝锥规格 Clamping tap specifications											
M4	4	3.15	M4	5	4						
M5	5	4	M5	5.5	4.5						
M6	6.3	5	M6	6	4.5	M6	6	4.9			
M8	6.3	5	M8	6.2	5	M8	8	6.2			
M10	8	6.3	M10	7	5.5	M10	10	8			
M12	9	7.1	M12	8.5	6.5	M12	9	7			
M14	11.2	9	M14	10.5	8	M14	11	9			
M16	12.5	10	M16	12.5	10	M16	12	9			
M18	14	11.2	M18	14	11	M18	14	11			
M20	14	11.2	M20	15	12	M20	16	12			
M22	16	12.5	M22	17	13	M22	18	14.5			
M24	18	14	M24	19	15	M24	18	14.5			
M27	20	16	M27	20	15	M27	20	16			
M30	20	16	M30	23	17	M30	22	18			
TC1433 夹持丝锥规格 Clamping tap specifications											
M24	18	14	M24	19	15	M24	18	14.5			
M27	20	16	M27	20	15	M27	20	16			
M30	20	16	M30	23	17	M30	22	18			
M33	22.4	18	M33	25	19	M33	25	20			
M36	25	20	M34/M35	26	21	M36	28	22			
M39	28	22.4	M36/M38	28	21	M39	32	24			
M42	28	22.4	M39/M40	30	23	M42	32	24			
			M42	32	26						

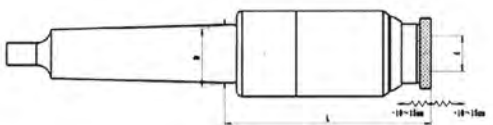


丝锥另购 Taps sold separately

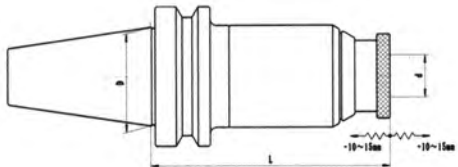
Model	D		H		L		攻丝范围 Tapping range				
GT12	19		10		21.5		M1-M16				
GT24	30		12		30		M5-M30				
GT42	45		20		48		M24-M42				
GT12 夹持丝锥规格 Clamping tap specifications											
ISO 国标 丝锥规格	丝锥尺寸 Tap size		JIS 日标 丝锥规格	丝锥尺寸 Tap size		DIN 德标 丝锥规格	丝锥尺寸 Tap size				
	柄径 D1	四方 t		柄径 D1	四方 t		柄径 D1	四方 t			
	M1-M2	2.5		2	M2		3	2.5	M1-M1.8	2.5	2.1
	M2.2-M2.5	2.8		2.24					M2-M2.5	2.8	2.1
	M3	3.15		2.5	M3		4	3.2	M3	3.5	2.7
	M4	4		3.15	M4		5	4	M4	4.5	3.4
	M5	5		4	M5		5.5	4.5	M5	6	4.9
	M6	6.3		5	M6		6	4.5	M6	6	4.9
	M8	6.3		5	M8		6.2	5	M8	8	6.2
	M10	8		6.3	M10		7	5.5	M10	10	8
	M12	9		7.1	M12		8.5	6.5	M12	9	7
	M14	11.2		9	M14		10.5	8	M14	11	9
M16	12.5	10	M16	12.5	10	M16	12	9			
GT24 夹持丝锥规格 Clamping tap specifications											
M4	4	3.15	M4	5	4						
M5	5	4	M5	5.5	4.5						
M6	6.3	5	M6	6	4.5	M6	6	4.9			
M8	6.3	5	M8	6.2	5	M8	8	6.2			
M10	8	6.3	M10	7	5.5	M10	10	8			
M12	9	7.1	M12	8.5	6.5	M12	9	7			
M14	11.2	9	M14	10.5	8	M14	11	9			
M16	12.5	10	M16	12.5	10	M16	12	9			
M18	14	11.2	M18	14	11	M18	14	11			
M20	14	11.2	M20	15	12	M20	16	12			
M22	16	12.5	M22	17	13	M22	18	14.5			
M24	18	14	M24	19	15	M24	18	14.5			
M27	20	16	M27	20	15	M27	20	16			
M30	20	16	M30	23	17	M30	22	18			
GT42 夹持丝锥规格 Clamping tap specifications											
M24	18	14	M24	19	15	M24	18	14.5			
M27	20	16	M27	20	15	M27	20	16			
M30	20	16	M30	23	17	M30	22	18			
M33	22.4	18	M33	25	19	M33	25	20			
M36	25	20	M34/M35	26	21	M36	28	22			
M39	28	22.4	M36/M38	28	21	M39	32	24			
M42	28	22.4	M39/M40	30	23	M42	32	24			
			M42	32	26						



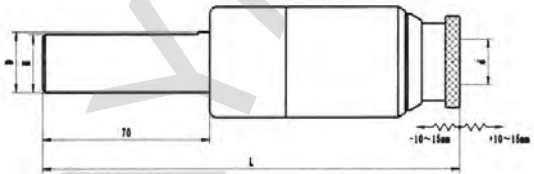
Model	适用夹头 Sizes of Collets	
MT3/4/5-GT12-7PCS	GT12	M3,M4,M5,M6,M8,M10,M12
NT30/40/50-GT12-7PCS		
BT30/40/50-GT12-7PCS		
MT3/4/5-GT24-7PCS	GT24	M12,M14,M16,M18,M20,M22,M24
NT30/40/50-GT24-7PCS		
BT40/50-GT24-7PCS		
MT3/4/5-GT42-7PCS	GT42	M24,M27,M30,M33,M36,M39,M42
NT30/40/50-GT42-7PCS		
BT40/50-GT42-7PCS		



Model	Capacity	D	d	L	适用夹头 Sizes of Collets
MT2-GT12	M3-M16	φ17.780	φ19	110	GT12 GT12B TC312 G3
MT3-GT12	M3-M16	φ23.825	φ19	110	GT12 GT12B TC312 G3
MT4-GT12	M3-M16	φ31.267	φ19	110	GT12 GT12B TC312 G3
MT3-GT24	M5-M30	φ23.825	φ30	130	GT24 GT24B G11
MT4-GT24	M5-M30	φ31.267	φ30	130	GT24 GT24B G12
MT5-GT24	M5-M30	φ44.399	φ30	13	GT24 GT24B G12



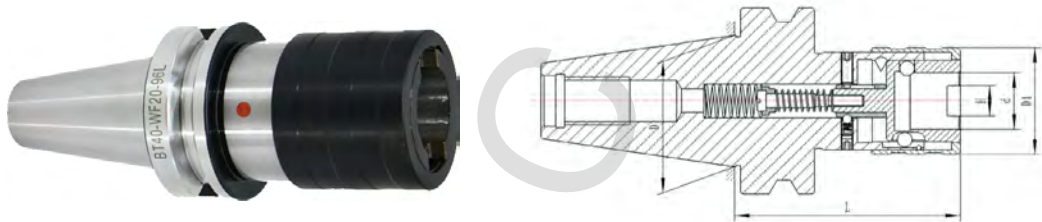
Model	Capacity	D	d	L	适用夹头 Sizes of Collets
BT30-GT12	M3-M16	φ31.75	φ19	125	GT12 GT12B TC312 G3
BT40-GT12	M3-M16	φ44.45	φ19	110	GT12 GT12B TC312 G3
BT40-GT24	M5-M30	φ44.45	φ30	130	GT24 GT24B G12
BT40-TC820	M5-M24	φ44.45	φ31	130	TC820
BT50-GT12	M3-M16	φ69.85	φ19	110	GT12 GT12B TC312 G3
BT50-GT24	M5-M30	φ69.85	φ30	120	GT24 GT24B G12
BT50-TC820	M5-M24	φ69.85	φ31	130	TC820



Model	Capacity	D	H	d	L	适用夹头 Sizes of Collets
D20-GT12	M3-M16	φ20	φ19	φ19	175	GT12 GT12B TC312 G3
D25-GT12	M3-M16	φ25	φ24	φ19	175	GT12 GT12B TC312 G3
D32-GT12	M3-M16	φ32	φ41	φ19	175	GT12 GT12B TC312 G3
D25-GT24	M5-M30	φ25	φ24	φ30	190	GT24 GT24B G12
D32-GT24	M5-M30	φ32	φ31	φ30	190	GT24 GT24B G12

TC820-WF 攻丝刀柄 TC820-WF Tapping Holders

伸缩缓冲型攻丝刀柄（直柄侧固式 -TER 型）
Telescopic buffer type tapping tool holder (straight shank side-lock type - TER type)



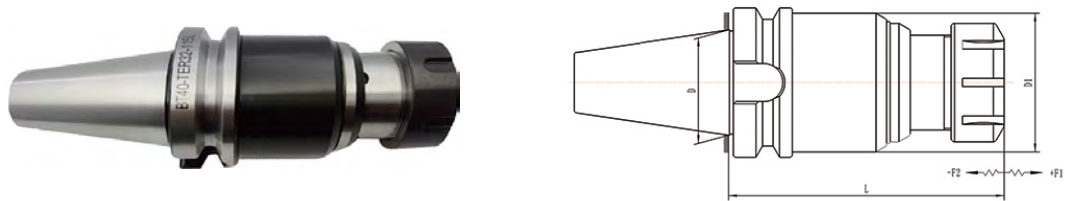
Model	D	D1	d	L	H	攻丝范围 Tapping range	伸缩长度 Telescopic length	
							压缩 Compression	伸长 Elongation
BT30-WF12-69L	31.75	36	10	69	10	M3-M12	5	5
BT30-WF20-100L	31.75	53	31	100	16	M5-M30	12	12
BT40-WF12-75L	44.45	36	19	75	10	M3-M12	5	5
BT40-WF20-96L	44.45	53	31	96	16	M5-M30	1C	12
BT40-WF33-158L	44.45	78	48	158	25	M24-M42	20	20
BT50-WF12-90L	69.98	36	19	90	10	M3-M12	5	5
BT50-WF20-108L	69.98	53	31	108	16	M5-M30	12	12
BT50-WF33-145L	69.98	78	48	145	25	M24-M42	20	20
BT50-GT42-145L	69.98	78	45	145	20	M24-M42	20	20



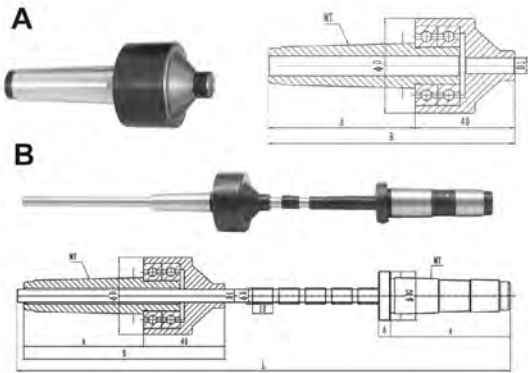
Model	D	L1	L2	适用夹头 Sizes of Collets	攻丝范围 Tapping range
D16-TER16-70L	16	85	70	ER16	M2-M12
D16-TER20-80L			80	ER20	M3-M16
D16-TER25-85L			85	ER25	M3-M20
D20-TER16-70L	20	85	70	ER16	M2-M12
D20-TER20-80L			80	ER20	M3-M16
D20-TER25-85L			85	ER25	M3-M20
D20-TER32-90L	20	85	90	ER32	M3-M24
D25-TER16-70L			70	ER16	M2-M12
D25-TER20-80L			80	ER20	M3-M16
D25-TER25-85L	25	85	85	ER25	M3-M20
D25-TER32-90L			90	ER32	M3-M24
D32-TER16-70L			70	ER16	M2-M12
D32-TER20-80L	32	85	80	ER20	M3-M16
D32-TER25-85L			85	ER25	M3-M20
D32-TER32-90L			90	ER32	M3-M24

伸缩缓冲型攻丝刀柄 (BT-TER 型)
Telescopic buffer type tapping tool holder (BT-TER type)

车笔刀架 Pencil Centers



Model	D	D1	L	适用夹头 Sizes of Collets	攻丝范围 Tapping range
BT30-TER16-110L	31.75	46	110	ER16	M2-M12
BT30-TER20-110L				ER20	M3-M16
BT30-TER25-110L				ER25	M3-M20
BT40-TER16-100L	44.45	46	100	ER16	M2-M12
BT40-TER20-100L				ER20	M3-M16
BT40-TER25-100L				ER25	M3-M20
BT40-TER32-115L	44.45	58	115	ER32	M3-M24
BT50-TER16-120L		46	120	ER16	M2-M12
BT50-TER20-120L				ER20	M3-M16
BT50-TER25-130L				ER25	M3-M20
BT50-TER32-130L	69.85	58	130	ER32	M3-M24



Model	A	B	D1	D
MT1	40	84	4.2	34
MT2	59	99	6.2	38

Model	L	A	B	D1	D	D2
MT1	265	40	84	4.2	34	18
MT2	285	59	99	4.2	38	24



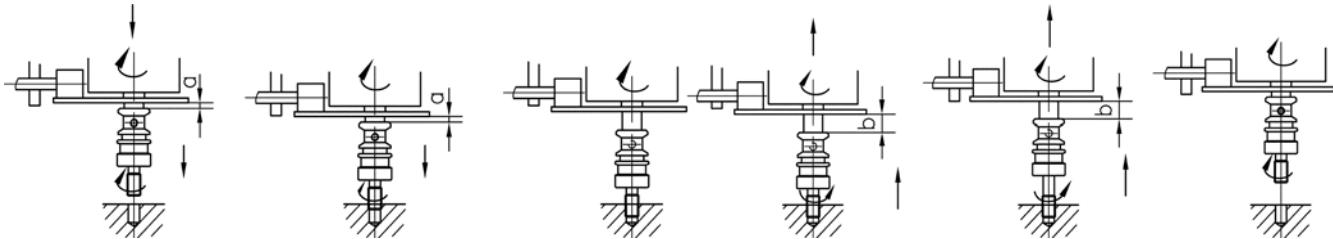
Model	加持范围 Capacity		加持柄径范围 Support handle diameter range	连接锥度 Connection taper	D	L
TC13-B16	M2-M13	1/8"-1/2"	φ2.5-φ10	B16	48	73
TC13-JT6	M2-M13	1/8"-1/2"	φ2.5-φ10	JT6	48	73
TC16-B18	M3-M16	1/8"-5/8"	φ3-φ12.5	B18	54	85
TC16-JT6	M3-M16	1/8"-5/8"	φ3-φ12.5	JT6	54	85
TC20-B18	M5-M20	3/16"-3/4"	φ4.5-φ15	B18	54	85
TC20-JT6	M5-M20	3/16"-3/4"	φ4.5-φ15	JT6	54	85
TC24-B22	M12-M24	1/2-15/16"	φ8.5-φ18	B22	60	95

J46 型可逆转攻丝夹头 Reversible Tapping Chuck



Model	攻丝范围 Tapping range	d	D	D1	L	L1	莫氏柄 MS.NO.S
J467	M2—M7	2.5—6.5	23	55	135	JU	MS2—JT33 MS3—JT33
J4612	M5—M12	3.5—10	28	75	164	114.5	MS3—M16 MS4—M16
J4620	M8—M20	6.0—14	38	90.5	205	135	MS3—M20 MS4—M20

操作示意图 Operating figure



所配柔性夹头: RUBBER FLEX COLLETS for reversible tapping chuck



Model	D	d	L
J467-1	15	2.5-4.2	11
J467-2	15	4.2-6.5	11
J4612-1	21	3.5-7.0	13
J4612-2	21	7.0-10	13
J4620-1	26.5	6.0-9.0	15
J4620-2	26.5	9.0-14	15
J4620-3	26.9	12.7-19.05	12

柔性夹头 J4620-3 为特殊定制，需要时需注明。
J4620-3 rubber flex collet is to be purchased specially.



OL-D301S(垂直)	
主轴转速: 0-300 转 / 分钟	Spindle speed: 0-300 rpm
攻丝范围: M3-M16	Tapping range: M3-M16
工作半径: 1200mm	Working radius:1200mm
工作方向: 垂直	Working direction: vertical
电动攻丝机加工条件 Processing conditions of electric tapping machine	
电源 220V Power 220V	电机功率 600W Motor power 600W



OL-D301S(万向)	
主轴转速: 0-312 转 / 分钟	Spindle speed: 0-312 rpm
攻丝范围: M3-M16	Tapping range: M3-M16
工作半径: 1200mm	Working radius:1200mm
工作方向: 万向	Working direction: universal
电动攻丝机加工条件 Processing conditions of electric tapping machine	
电源 220V Power 220V	电机功率 600W Motor power 600W



OL-D601S(垂直)	
主轴转速: 0-140 转 / 分钟	Spindle speed: 0-140 rpm
攻丝范围: M6-M30	Tapping range: M6-M30
工作半径: 1350mm	Working radius:1350mm
工作方向: 垂直	Working direction: vertical
电动攻丝机加工条件 Processing conditions of electric tapping machine	
电源 220V Power 220V	电机功率 1000W Motor power 1000W



OL-D601SW(万向)	
主轴转速: 0-140 转 / 分钟	Spindle speed: 0-140 rpm
攻丝范围: M5-M30	Tapping range: M5-M30
工作半径: 1350mm	Working radius:1350mm
工作方向: 万向	Working direction: universal
电动攻丝机加工条件 Processing conditions of electric tapping machine	
电源 220V Power 220V	电机功率 1000W Motor power 1000W

电动攻丝机配件 Electric tapping machine accessories

- 伺服电机一套 Servo motor set
- 伺服驱动器一套 A set of servo drives
- 精密行星减速机 Precision planetary reducer
- 高清人机界面 HD man-machine interface
- 支架一套 A set of brackets
- 扭力夹头一套 (8pcs) A set of torque chucks (8 in total)
- 卡簧钳一把 A circlip pliers
- 说明书一份 A manual

产品优势 Product advantages

- 1、微电脑控制，扭力大小可调，通孔盲孔不断丝锥：可根据攻丝的大小自行调节扭力，加上扭力夹头过载保护，双重保护，不断丝锥。
1. Microcomputer control, adjustable torque, continuous tapping through blind holes: adjustable torque according to the size of the tapping, plus torque chuck overload protection, double protection, continuous tapping;
- 2、智能定深，自动攻下，自动退回。想攻多深就攻多深。
2. Intelligent depth setting, automatic attack and automatic return. Tap as deep as you want.
- 3、高效率，持续使用无障碍。
3. High efficiency, continuous use without barriers;
- 4、精密行星减速机，齿轮加大，加长，加多，经久耐用，精密度高。
4. Precise planetary reducer, with enlarged, longer and more gears, durable and high precision.

锥孔自紧式钻夹头 Taper-fitting Keyless Drill Chucks

$D \leq 0.06\text{mm}$
 $M \leq 0.12\text{mm}$
 $P \leq 0.20\text{mm}$

C45S20

Model	Capacity	Taper	d	h	D	L	I
J0106	0.5-6	B10	10.094	14.5	35	67	61
J0110	1-10	B12	12.065	18.5	42	86	78
J0113	1-13	B16	15.733	24	44	97	88
J0116	3-16	B18	17.78	32	48	108	98
J0116A	1-16	B16	15.733	24	48	108	98
J0120	5-20	B22	21.3	30.5	53	115	103
J0206	1/6"-1/4"	JT1	9.754	16.669	35	67	61
J0210	1/32"-3/8"	JT2	14.199	22.225	42	86	78
J0213	1/32"-1/2"	JT33	15.85	25.4	44	97	88
J0216	1/8"-5/8"	JT6	17.17	25.4	48	102	92
J0216	1/8"-5/8"	JT3	20.599	30.956	48	108	98
J0220	3/16"-3/4"	JT3	20.599	30.956	53	115	103

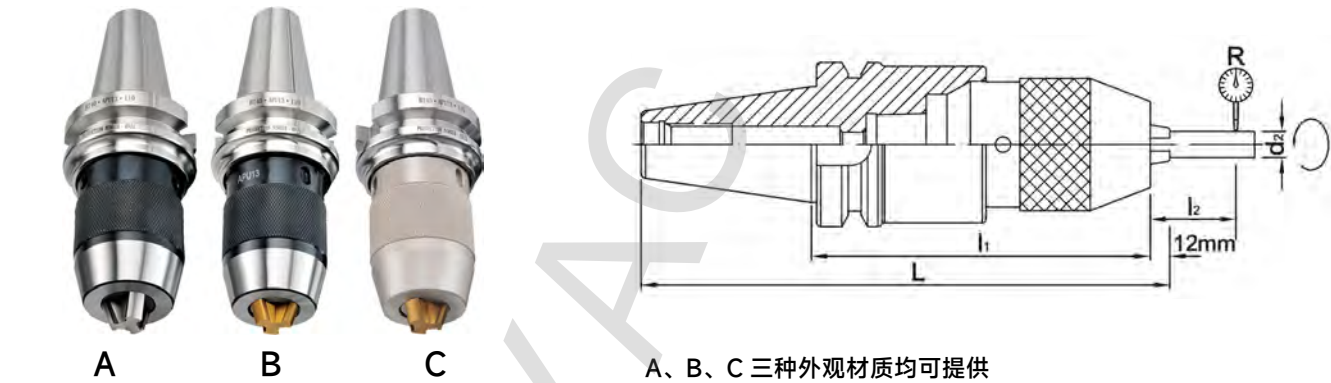
Above 6 kinds of types with different costs for choice. 上面六款不同外观与成本供选择。

螺纹孔自紧式钻夹头 Thread Mounted Keyless Drill Chucks

Model	Capacity	Thread	h	D	L	I	
J0306	1/64"-1/4"	0.5-6	3/8"-24UNF	14	35	67	61
J0308	1/64"-5/16"	0.5-8	3/8"-24UNF	14	42	86	78
J0310A	1/32"-3/8"	1-10	3/8"-24UNF	14	42	86	78
J0310B	1/32"-3/8"	1-10	1/2"-20UNF	16	42	86	78
J0313A	1/32"-1/2"	1-13	1/2"-20UNF	16	44	90	81
J0313B	1/32"-1/2"	1-13	3/8"-24UNF	14	44	90	81
J0316A	1/8"-5/8"	3-16	1/2"-20UNF	16	48	102	92
J0316C	1/8"-5/8"	3-16	5/8"-16UNF	18	48	102	92

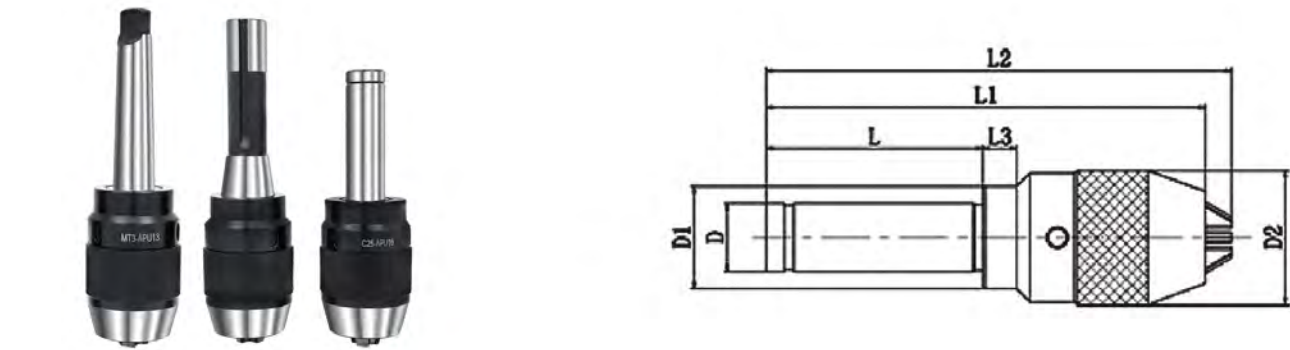
* Please state light or heavy duty as you prefer when ordering. 订货时请注明是轻型还是重型。

BT 一体式钻夹头 BT Integrated Drill Chucks



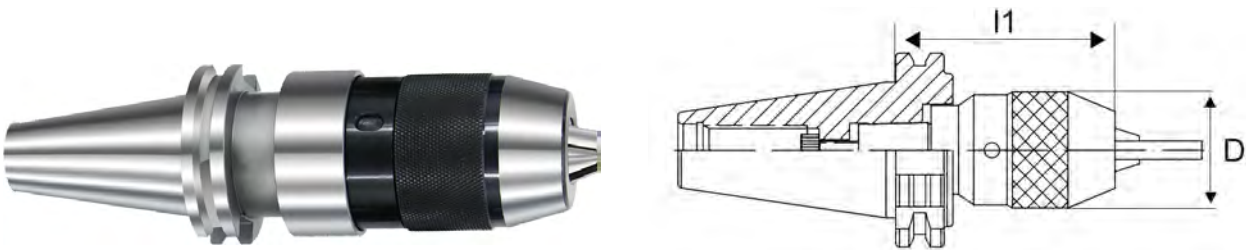
Model	Clamping range	D	L	
			Min.	Max.
BT30-APU08-80	1-8	36.3	75	82
BT30-APU13-110	1-13	51.5	94	104.5
BT40-APU08-85	1-8	36.3	79	86.5
BT40-APU13-110	1-13	51.5	98	109
BT40-APU16-110	1-16	58	115	130
BT50-APU13-110	1-13	49	98	109
BT50-APU16-130	1-16	54	115	130

莫氏、直柄、R8 一体式自紧钻夹头
Integrated Keyless Drill Chucks With Morse Taper, Straight Or R8 Shanks



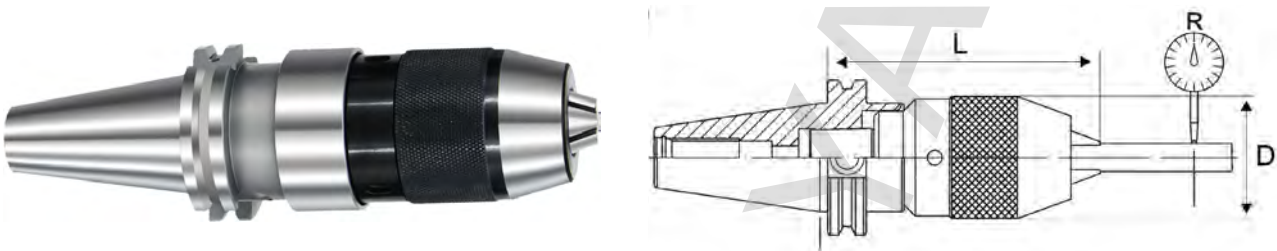
Model	Capacity		Dimensions				
	mm	nch	D	D1	L	L1	L2
MT3-13	1.0-13	1/32-1/2	23.825	51	99.5	182.5	195
MT3-16	1.0-16	1/32-5/8	23.825	57	99.5	208	219.5
MT4-13	1.0-13	1/32-1/2	31.542	51	125	207	218.5
MT4-16	1.0-16	1/32--5/8	31.542	56.5	125	219	234.5
C20-13	1.0-13	1/32-1/2	20	51	60	143	155.5
C20-16	1.0-16	1/32-5/8	20	57	60	153	167.5
R8-13	1.0-13	1/32-1/2	31.75	51	102	183.5	195
R8-16	1.0-16	1/32-5/8	31.75	57	102	195	210

SK 一体式钻夹头 SK Integrated keyless Drill Chucks



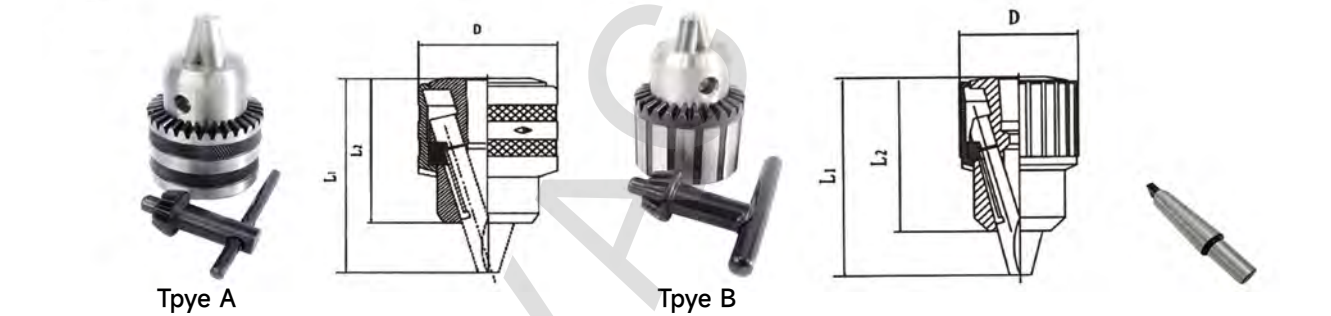
Model	l1	l2	d1	d2	R	Range		KGS
						mm	inch	
SK30-APU08-80	80	55	37	6	0.4	1-8	1/24-5/16	0.60
SK30-APU13-120	120	75	50	13		1-13	1/24-1/2	1.45
SK30-APU16-120	120	75	57	16		3-16	1/8-5/8	1.78
SK40-APU8-75	75	55	37	6	0.4	1-8	1/24-5/16	1.32
SK40-APU13-100	100	75	50	13		1-13	1/24-1/2	1.92
SK40-APU16-115	115	80	57	16		3-16	1/8-5/8	2.28
SK50-APU8-75	75	55	37	6	0.4	1-8	1/24-5/16	3.86
SK50-APU13-100	100	75	50	13		1-13	1/24-1/2	4.40
SK50-APU16-105	105	80	57	16		3-16	1/8-5/8	4.48

CAT 一体式钻夹头 CAT Integrated Drill Chucks



Model	Clamping Range		D		Minimum				Maximum	
	(φmm)	(φinch)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)
CAT40-APU08	1-8	1/32"-5/16"	36.3	1.429"	65	2.559"	76.5	3.011"		
CAT40-APU13	1-13	1/32"-1/2"	51.5	2.028"	88	3.464"	99	3.697"		
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"		

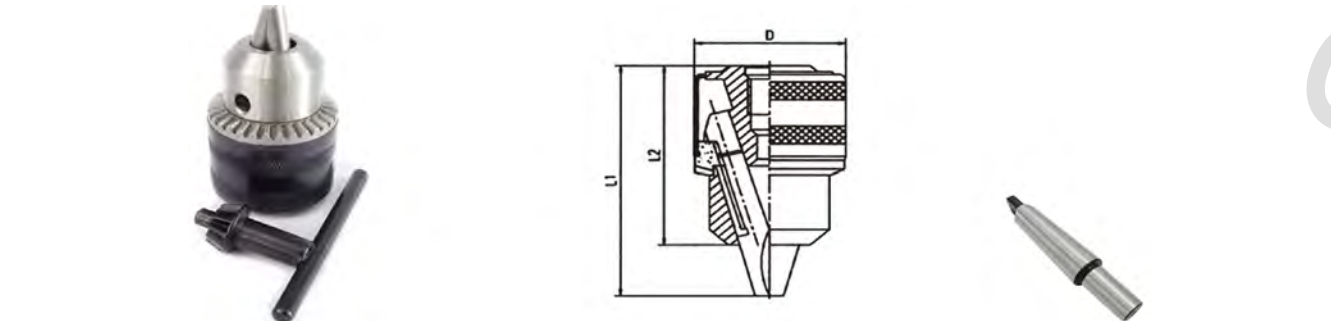
(重型 Heavy Duty) 扳手式锥孔钻夹头 Key-Type Drill Chucks With Taper Fitting



C45S20 ≤ 0.20mm

Model	Capacity	Mounts	D	L1	L2
J216	0.6-6	B10	30.3	50	39.5
J2110	1-10	B12	43.4	69.7	54
J2113	1-13	B16	53.2	86	67
J2116A	1-16	B16	57	93	75
J2116	3-16	B18	57	93	75
J2120	5-20	B22	65.3	110	82
J226	1/4"	JT1	30.3	50	39.5
J2210	3/8"	JT2	43.4	69.7	54
J2213A	1/2"	JT6	53.2	86	67
J2213	1/2"	JT33	53.2	86	67
J2216	5/8"	JT3	57	93	75
J2220	3/4"	JT3	68	120	92

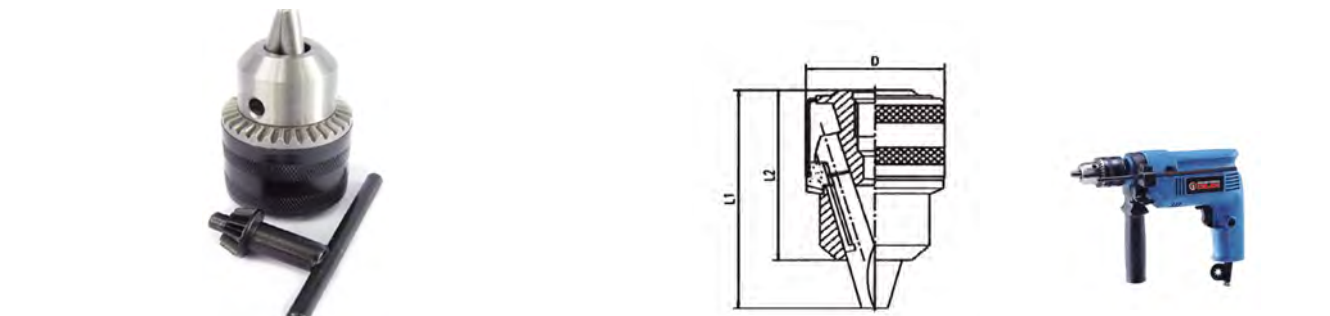
(轻型 Light Duty) 扳手式锥孔钻夹头 Key-Type Drill Chucks With Taper Fitting



C45S20 ≤ 0.25mm

Model	Capacity	Mounts	D	L1	L2
J2510	1.5-10	B12	34	58.5	49
J2610	3/8"	JT2	34	58.5	49
J2513	1.5-13	B16	43.5	74	60
J2613	1/2"	JT6	43.5	76	60
J2516	3-16	B18	52	86	67
J2616	5/8"	JT3	53.2	97	78

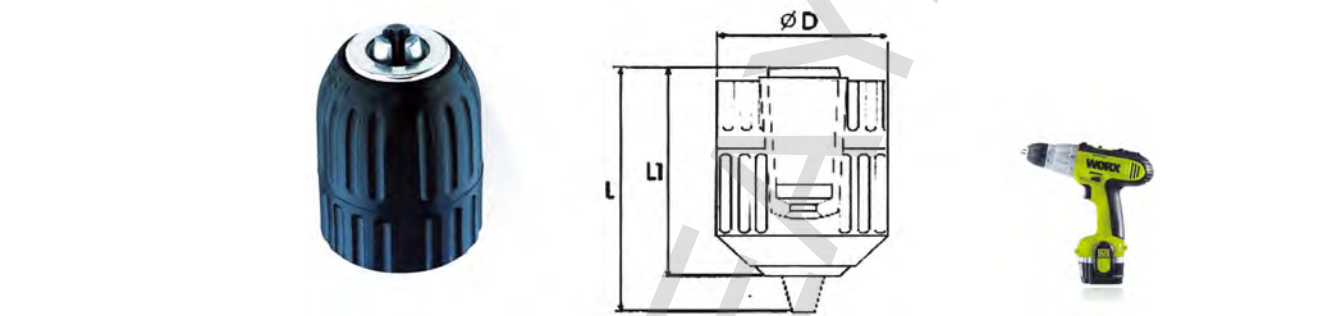
扳手型螺纹孔钻夹头 Key-Type Drill Chucks With Thread Mounted



C45S20 ≤ 0.30

Model	Capacity	Mounts	D	L1	L2
J3506B	0.6-6	3/8-24UNF	30.3	49	40
J3510D	1.5-10	M10-1	34	58.5	49
J3510C	1.5-10	3/8-24UNF	34	58.5	49
J3510G	1.5-10	1/2-20UNF	34	58.5	49
J3513D	1.5-13	M12-1.25	42	71.5	59
J3513A	1.5-13	1/2-20UNF	42	71.5	59
J3513B	1.5-13	3/8-24UNF	42	71.5	59
J3516A	3-16	1/2-20UNF	52	86	67
J3516A	3-16	5/8-16UN	52	86	67

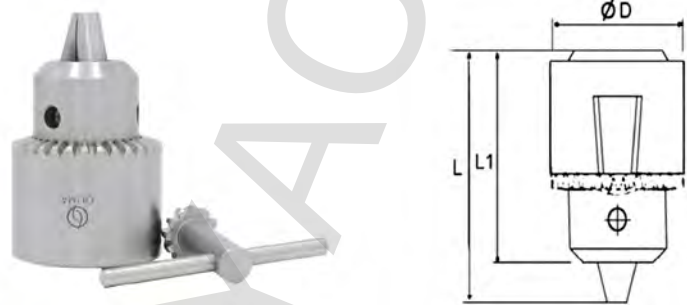
手紧式钻夹头 Keyless Hand-tightening Drill Chucks



PA6-30G ≤ 0.30

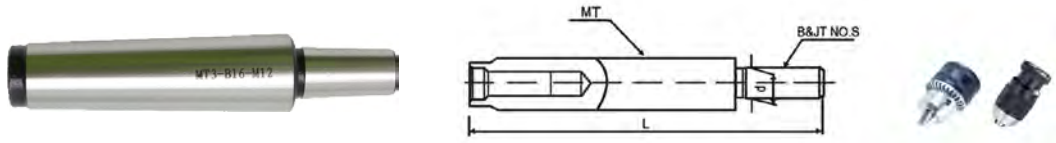
Model	Capacity	Mounts	D	L1	L
J1510A	0.8-10	3/8-24UNF	41	54.5	64
J1510B	0.8-10	12-20UNF	41	54.5	64
J1513A	2-13	1/2-20UNF	43	62	74.5
J1513B	2-13	3/8-24UNF	43	62	74.5

不锈钢钻夹头 Stainless Steel Drill Chucks



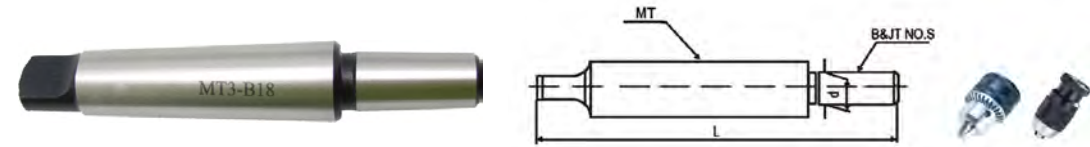
Material:3Cr13

Capacity	Connecting Hole	D	L	L1
0.3-4	JT0;3/8"-24UNF	20	36	30
0.6-6	JT1;B10;3/8"-24UNF	28	47	38
0.6-8	JT1;B10;3/8"-24UNF	30	50	42
1.0-10	JT2;B12;3/8"-24UNF	34	60	50
1.0-13	JT6;JT33;B16;1/2"-20UNF	42	70	56



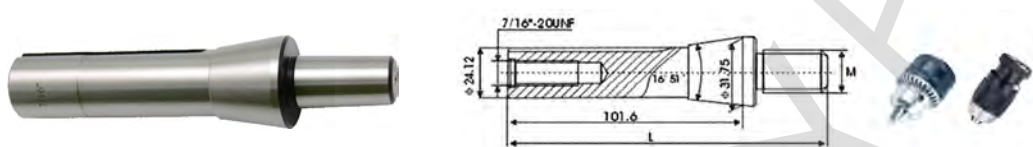
DIN228A
C45
≥ 85%

Model	L	d	Model	L	d
MT2-B16	103	15.733	JT33-MT3	114	15.85
MT3-B16	118	15.733	JT33-MT4	137	15.850
MT4-B16	141	15.733	JT3-MT2	103	20.599
MT3-B18	126	17.780	JT3-MT3	120	20.599
MT4-B18	149	17.780	JT3-MT4	143	20.599
MT5-B18	176	17.780	JT3-MT5	170	20.599



DIN228B
C45
≥ 85%

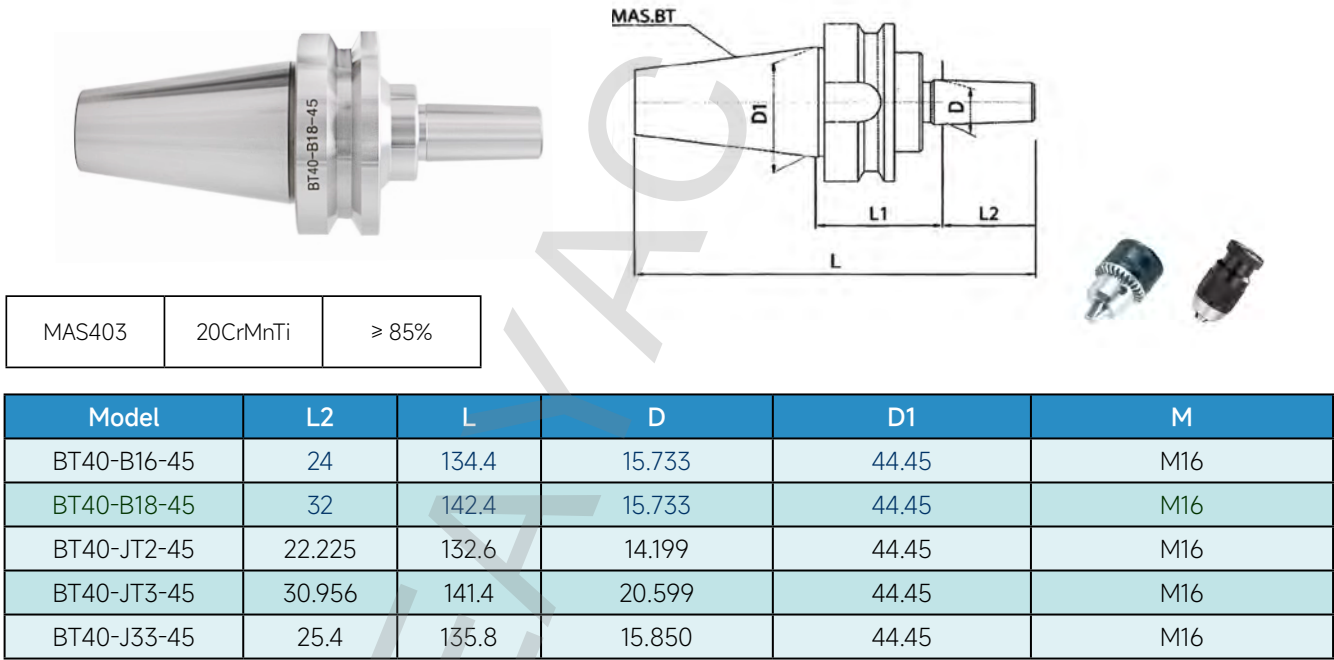
Model	L	d	Model	L	d
MT2-B16	112	15.733	JT33-MT3	127	15.85
MT3-B16	131	15.733	JT33-MT4	152	17.17
MT4-B16	156	15.733	JT33-MT5	184	15.85
MT3-B18	139	17.788	JT3-MT5	190	20.599
MT4-B18	164	17.788	JT4-MT4	169	28.55
MT5-B18	196	17.788	JT4-MT5	201	28.55



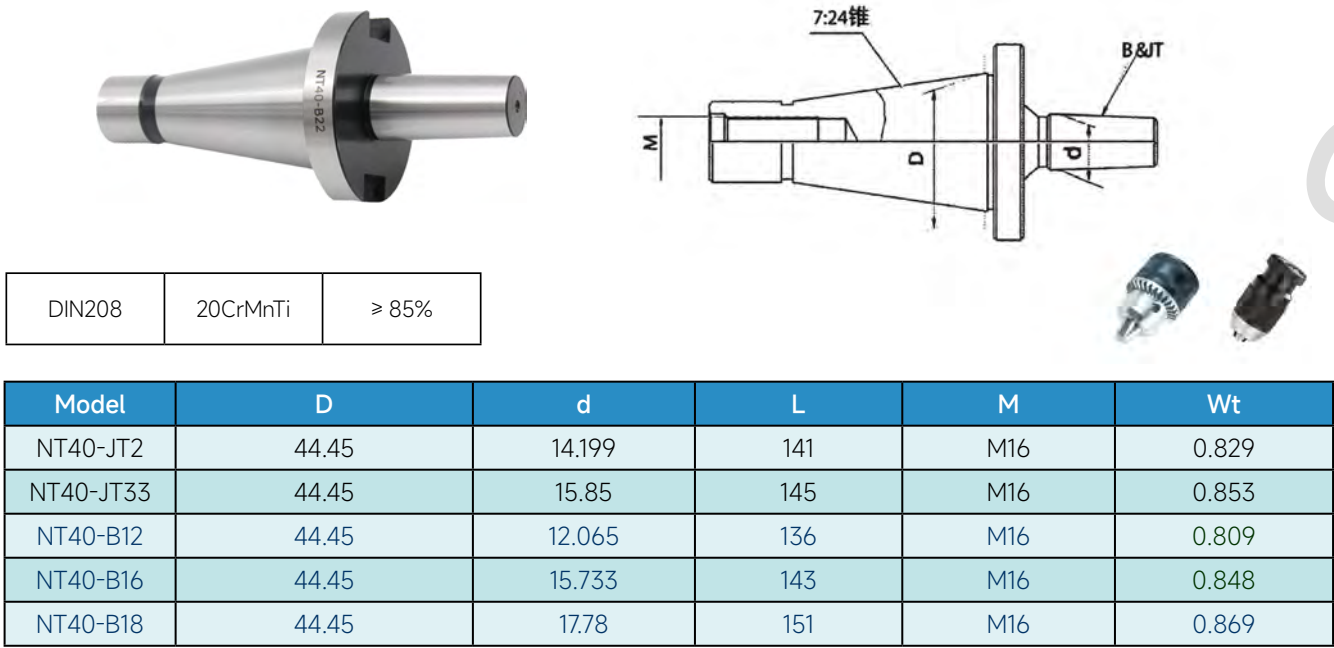
C45
≥ 85%

Model	L	d	Model	L	d
R8-JT33	132	15.85	R8-B12	128	12.065
R8-JT6	132	17.17	R8-B16	135	15.733
R8-JT3	137	20.599	R8-B18	143	17.78

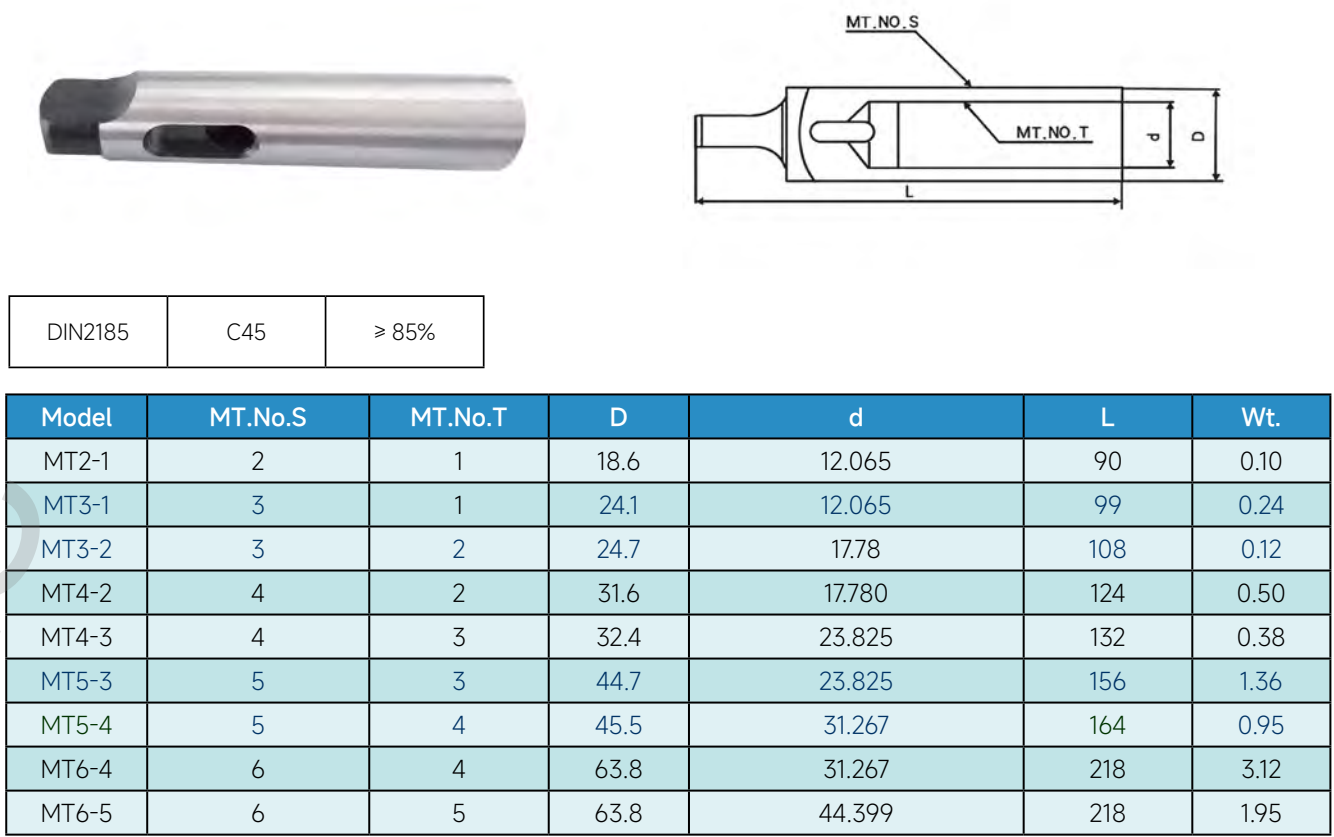
BT 钻夹头接杆 BT Drill Chuck Arbors



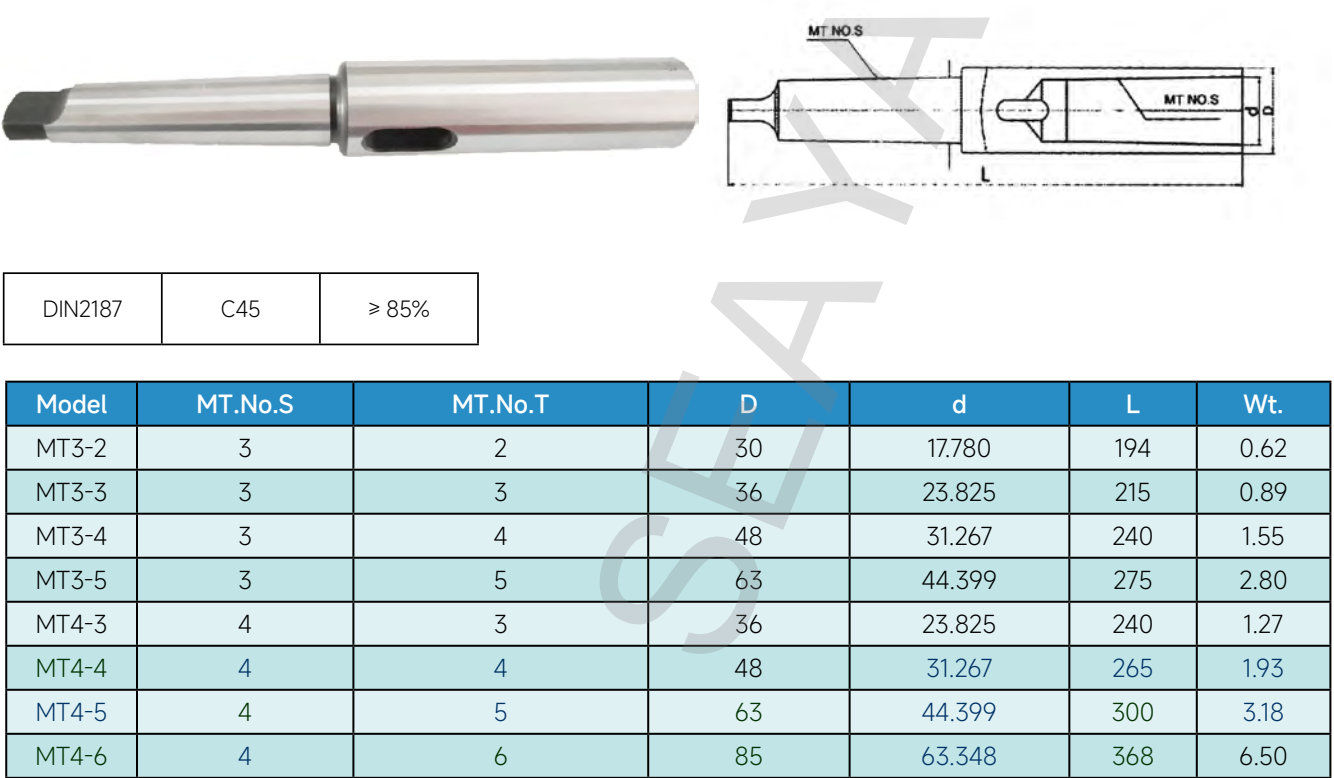
NT 钻夹头接杆 NT Drill Chuck Arbors

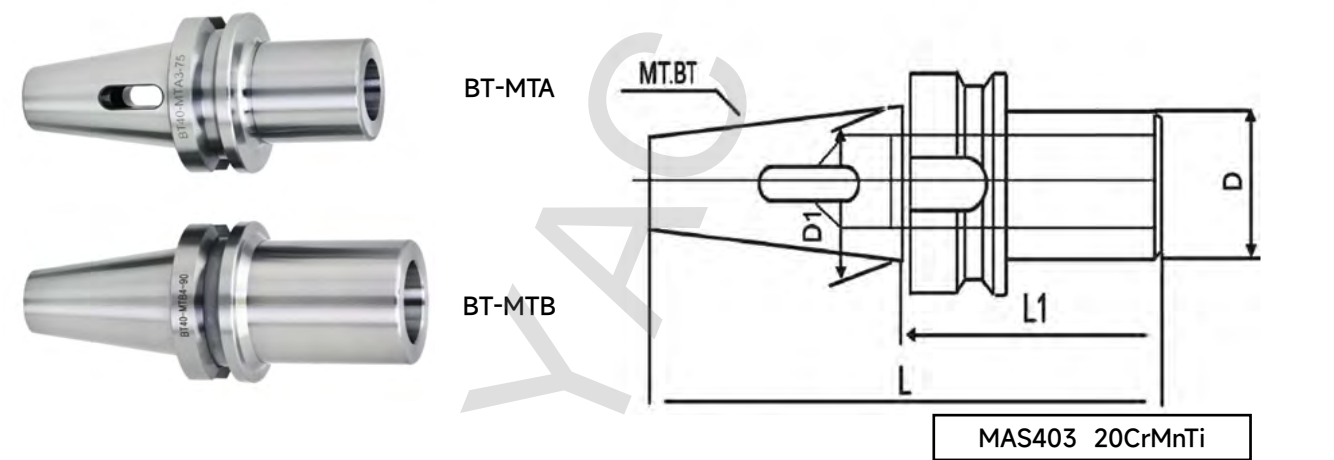


MT 变径套 MT Drill Sleeves

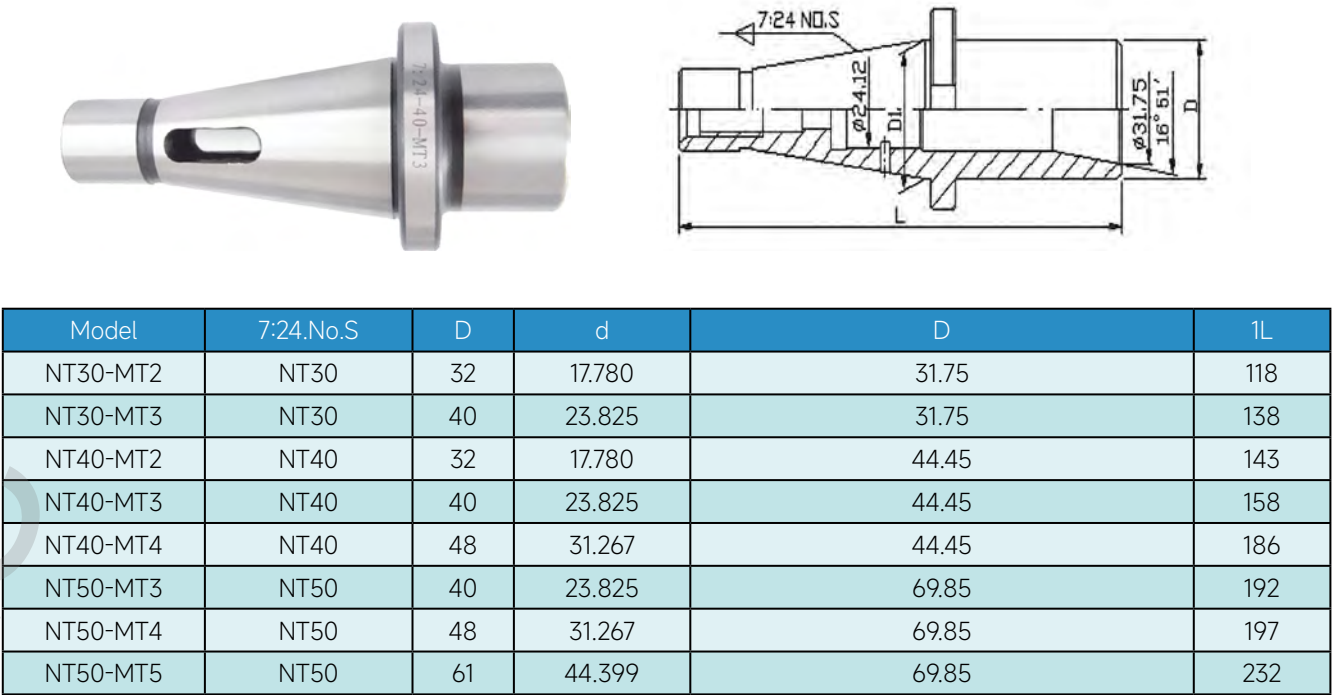


加长变径套 Extension Drill Sleeves

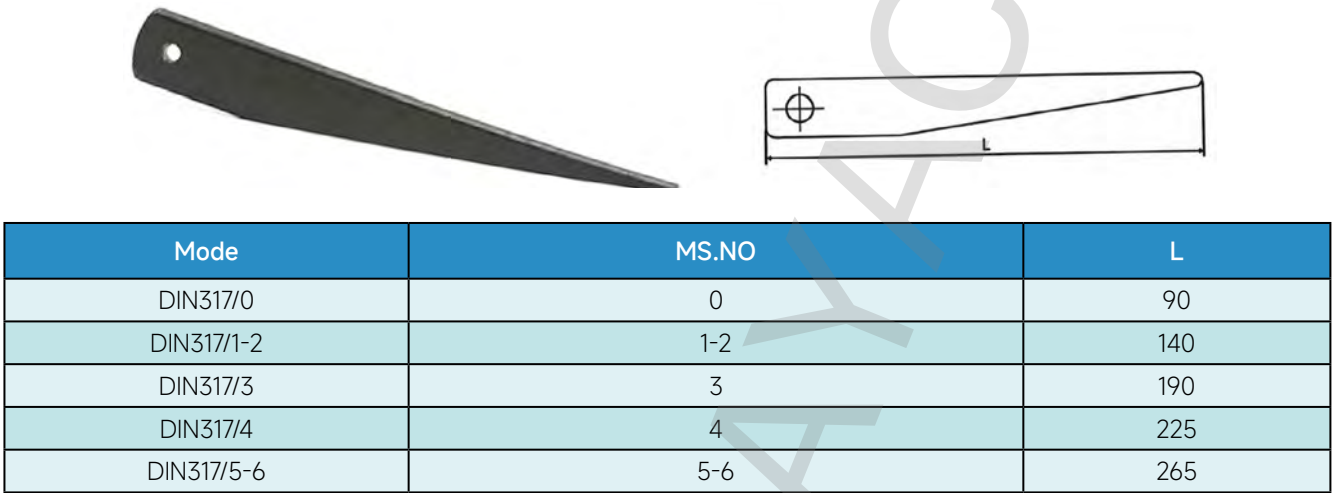




Model	L	D	D1
BT30-MT2-60	108.4	32	31.75
BT30-MT3-80	128.4	40	31.75
BT40-MT2-60	125.4	32	44.45
BT40-MT2-120	185.4	32	44.45
BT40-MT3-70	135.4	40	44.45
BT40-MT3-75	140.4	40	44.45
BT40-MT4-90	155.4	48	44.45
BT40-MT4-95	160.4	48	44.45
BT40-MT4-135	200.4	48	44.45
BT40-MT4-98	180.8	48	57.15
BT50-MT2-45	146.8	25	69.85
BT50-MT3-65	166.8	40	69.85
BT50-MT3-75	176.8	40	69.85
BT50-MT3-120	221.8	40	69.85
BT50-MT3-135	236.8	40	69.85
BT50-MT3-150	251.8	40	69.85
BT50-MT4-85	186.8	48	69.85
BT50-MT4-95	196.8	48	69.85



拆卸铁 Drill Drafts

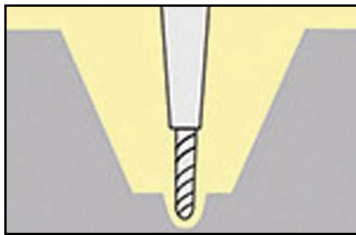
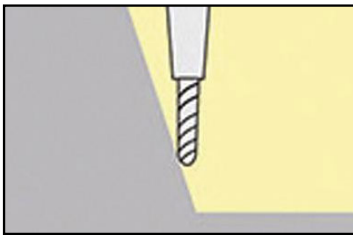
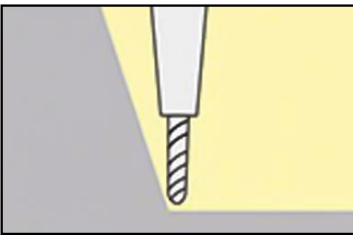


半自动拆卸铁 Half Automatic Morse Shank Pullers

Model	MS.No	L
DIN318/1-3	1-3	317
DIN318/4-6	4-6	380



Unit:mm						
型号 Model No	夹持范围 Clamping	C	D	D1	L	筒夹 Collet
C12-DC06-120	2-6	12	13	10	120	CDC06
C12-DC06-150					150	CDC06
C16-DC06-150		16		14	150	CDC06
C16-DC06-200					200	CDC06
C20-DC06-150		20		17	150	CDC06
C20-DC06-200					200	CDC06
C20-DC08-150	16		150		CDC08	
C20-DC08-200		200	CDC08			
C20-DC010-200	3-10	25	10	22	200	CDC10
C25-DC08-150	3-8		16		150	CDC08
C25-DC08-200					200	CDC08
C25-DC12-200	3-12		18		200	CDC12
C25-DC12-250				250	CDC12	



Vertical wall processing

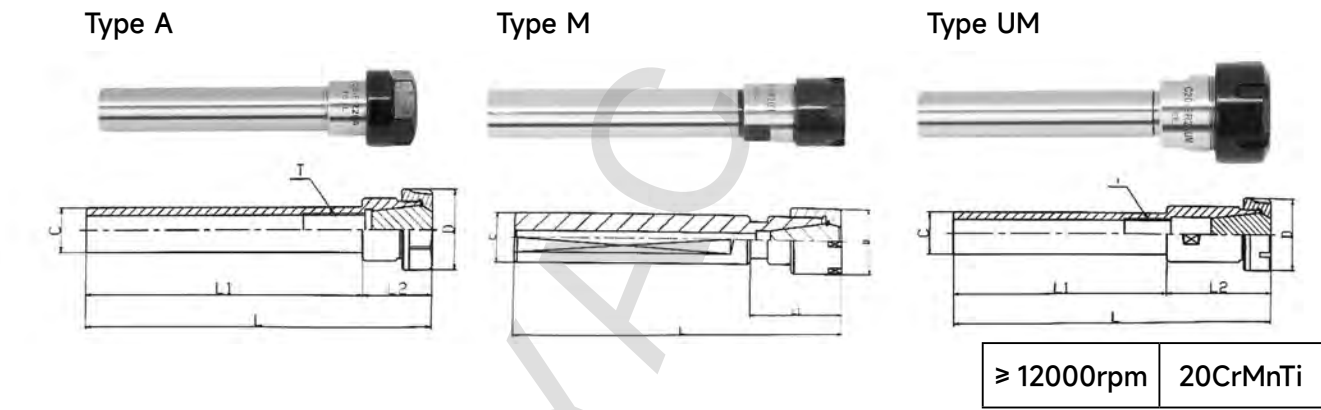
Slot milling



·每支延长杆附赠 4 颗螺丝 1 支扳手

Unit:mm

Model	L	l2	l3	l4	D	d1	d2	T	WEIGHT (KGS)				
C10-SL3-150	150	6	10	25	10	3	9	M3x0.5P	0.10				
C10-SL4-150						4			0.10				
C10-SL6-150						6		—	0.10				
C12-SL4-150					12	4	9	M4x0.7P	0.12				
C12-SL6-100	100					6	10		0.10				
C12-SL6-150	150									0.12			
C16-SL4-150						4			0.15				
C16-SL4-200	200				16	6	13		0.18				
C16-SL6-150	150									0.15			
C16-SL6-200	200									0.18			
C16-SL8-150	150									0.15			
C16-SL8-200	200									0.18			
C20-SL6-150	150					6	13		0.18				
C20-SL8-150						8	15	M6x1.0P	0.18				
C20-SL8-200	200						0.18						
C20-SL10-150	150				20	10	17		0.18				
C20-SL10-200	200								0.20				
C20-SL12-150	150					12	19		0.18				
C20-SL12-200	200								0.20				
C32-SL6-150	150								32	6	13		0.21
C32-SL8-150										8	15		0.21
C32-SL10-150										10	17		0.22
C32-SL12-150								12		19		0.22	



Model	L	L1	C	D
C10-ER8A/M-100	117	100	10	12
C10-ER11A/M-100	121.6/116.6	100	10	19/16
C12-ER11A/M-100	121.6/116.6	100	12	19/16
C12-ER16A/M-100	140/137	100	12	28/22
C16-ER11A/M-100	121.6/116.6	100	16	19/16
C16-ER16A/M-100	140/137	100	16	28/22
C16-ER16A/M-150	190/187	150	16	28/22
C20-ER16A/M-100	140/137	100	20	28/22
C20-ER16A/M-150	190/187	150	20	28/22
C20-ER20A/M-100	140.5/140	100	20	34/28
C20-ER25UM-100	151	100	20	42
C20-ER32UM-100	51.5	100	20	50
C25-ER20UM-100	140.5/140	100	25	34/28
C25-ER25UM-100	51	100	25	42
C25-ER32UM-100	51.5	100	25	50
C32-ER32UM-100	51.5	100	32	50
C32-ER32UM-150	51.5	150	32	50
C40-ER32UM-100	51.5	100	40	50
C40-ER40UM-100	65	100	40	63



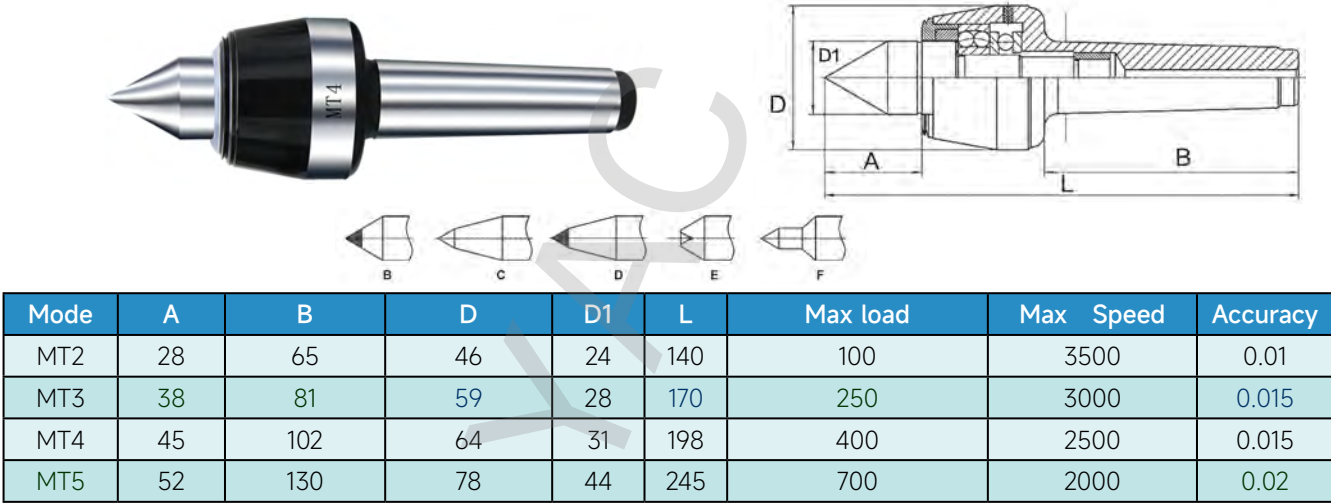
Any other special sizes as ordered. 其它规格按订单供货

GJMT- 系列 轻型 GJMT-Series Light					
Model	L	L1	L2	D	d
GJMT3-A	189	66	33	53	25
GJMT3-B	209	66	53	53	25
GJMT4-A	209	59	40	69	32
GJMT4-B	219	59	59	69	32
GJMT5-A	220	75	55	84	40
GJMT5-B	237	75	72	84	40

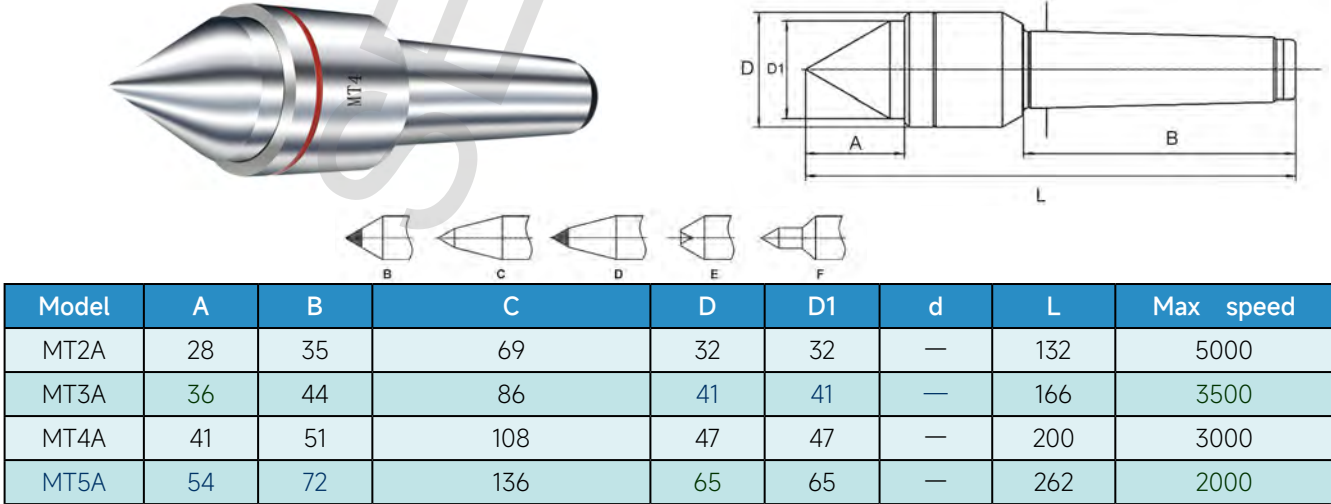
ZGJMT- 系列 重型 ZGJMT-Series Heavy					
Model	L	L1	L2	D	L
ZGJMT4-A	223	73	40	63	40
ZGJMT5-A	250	85	55	84	40
Model	L	L1	L2	D	L
ZGJMT4-B	223	73	40	63	40
ZGJMT5-B	250	85	55	84	40

·GJMT 轻型系列精度 0.003-0.005 载荷 400-1500KG 转速 3000-5000RPM
GJMT light series accuracy 0.003-0.005 load 400-1500KG speed 3000-5000RPM
·ZGJMT 重型系列精度 0.005-0.007 载荷 2000-5000KG 转速 3000-4500RPM
ZGJMT heavy series accuracy 0.005-0.007 load 2000-5000KG speed 3000-4500RPM

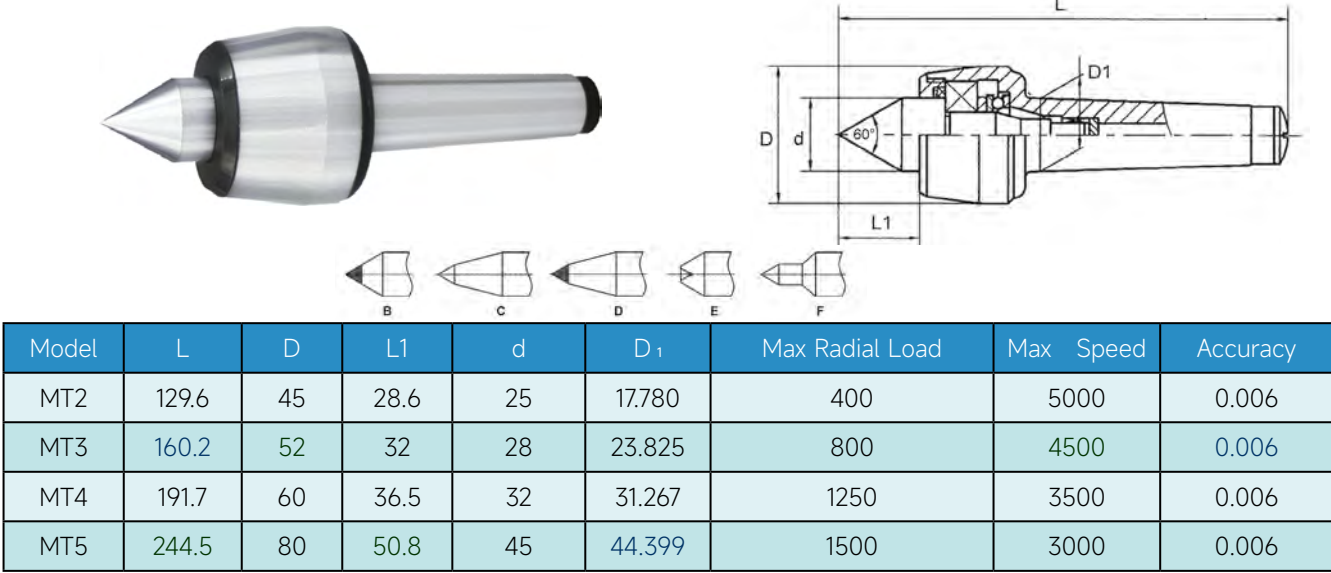
高速黑款回转顶尖 High Speed With Water-proof Live Centers



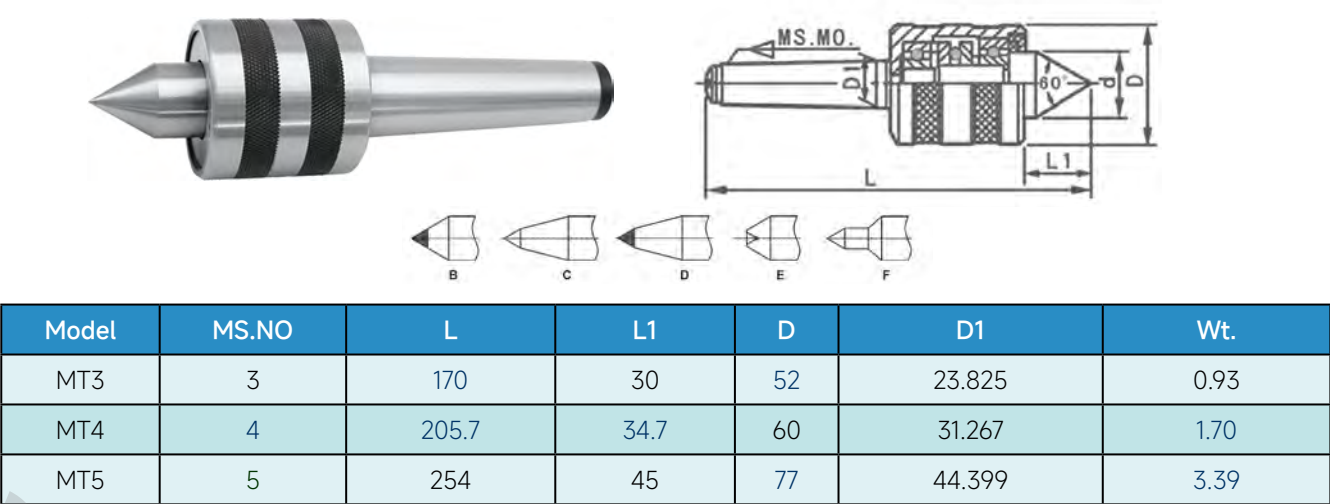
新款数控回转顶尖 New Type Live Centers For CNC



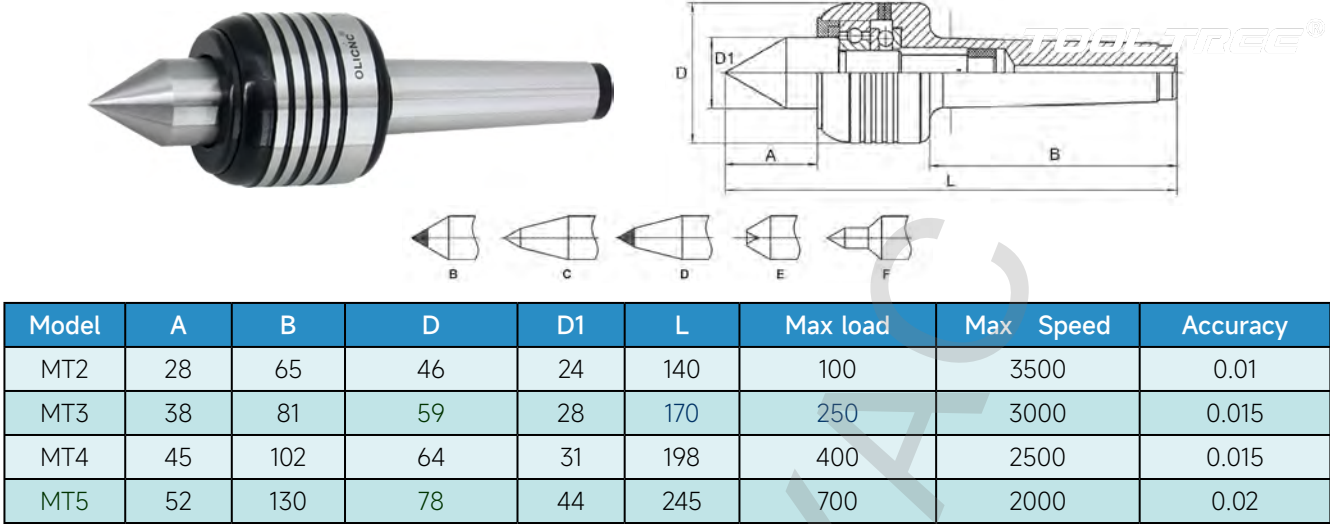
DM 精密轻型回转顶尖 Precision Light-Duty Live Centers (DM type)



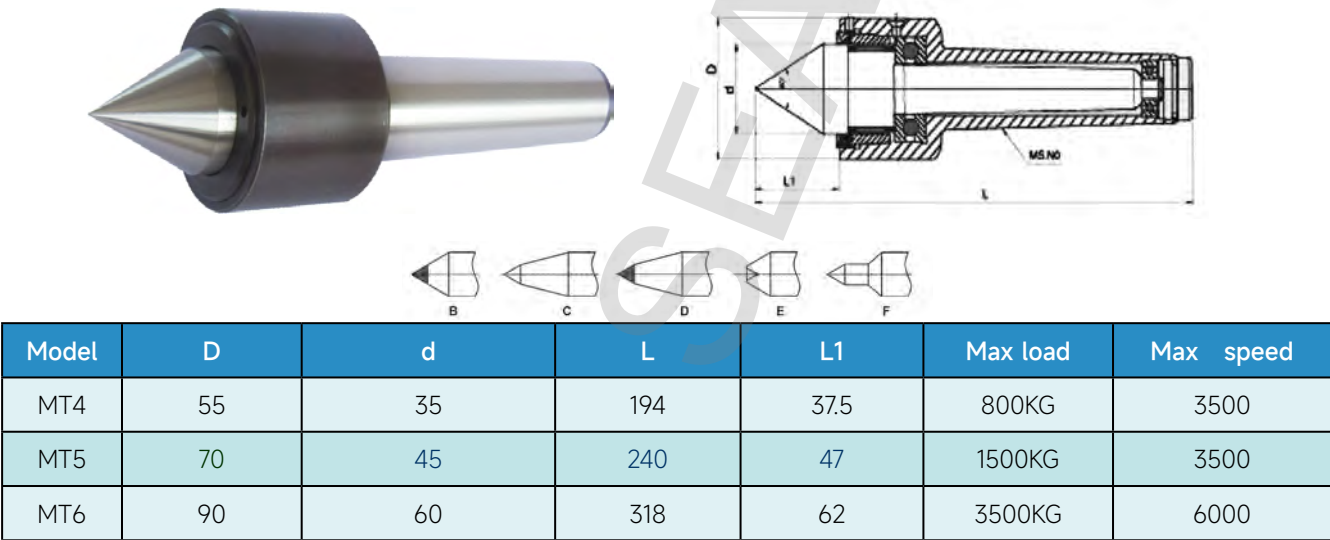
中型回转顶尖 Medium Duty Live Centers

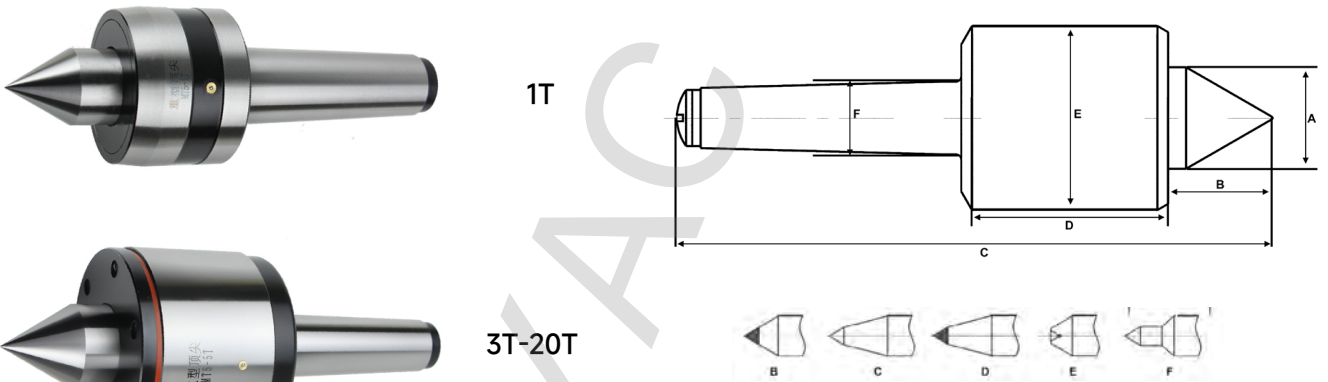


数控回转顶尖 CNC Live Centers



重型回转顶尖 Heavy Duty Live Centers





Model	A	B	C	D	E	F
MT5-1T	41	53	260	72	89	44.4
MT5-3T	47	63	278	80	104	44.4
MT5-5T	65	80	337	110	140	44.4
MT6-3T	57	70	373	104	120	63.3
MT6-5T	67	80	390	110	140	63.3
MT6-10T	71	82	414	133	160	63.3

硬质合金固定顶尖 Carbide Dead Centers



·合金尖部 非合金尖部可选择 ·Alloy tip Non-alloy tip optional
·可根据订单要求生产 Can be produced according to order

Model	D	L	Wt.
MT2	17.780	100	0.150
MT3	23.825	125	0.334

Model	D	L	Wt.
MT2	17.780	100	0.150
MT3	23.825	125	0.334

Model	D	L	Wt.
MT4	31.267	160	0.746
MT5	44.399	200	1.826

Model	D	L	Wt.
MT4	31.267	160	0.746
MT5	44.399	200	1.826



Mode	L	A	B	C	D
MT1	136	12.065	42	69	32
MT2	160	17.788	46	86	34



Model	L	A	B	C	D
MT1	146	12.065	40	69	43
MT2	163	17.788	40	86	43



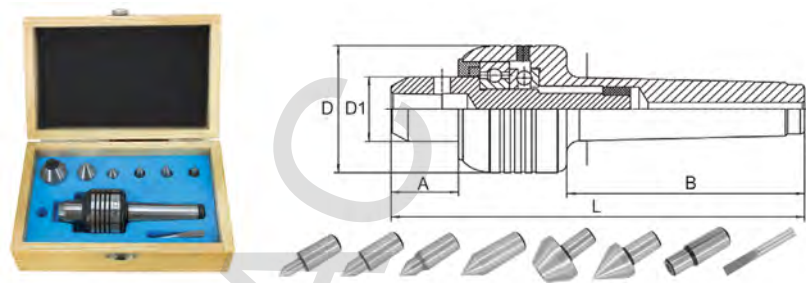
Model	L	A	B	C	D
MT1	87	12.065	22	19.05	56
MT2	100	17.788	28	25.4	69



Model	L	A	B	C	D
MT1	152	12.065	48	22	69
MT2	173	17.788	58	24	86

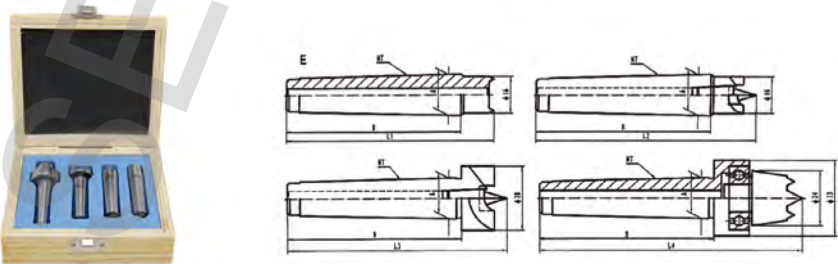


Model	L	A	B	C	D
MT1	128	12.065	34	19.05	56
MT2	141	17.788	34	19.05	69



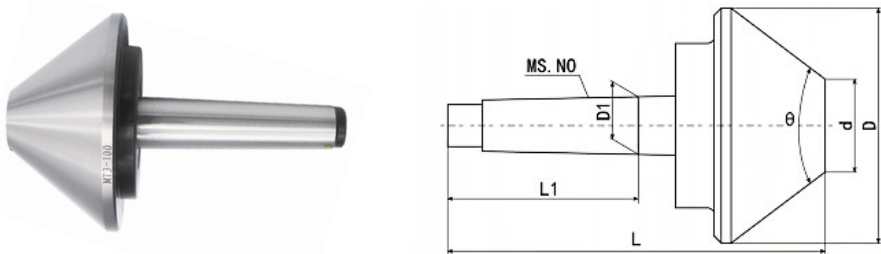
Model	A	B	D	D1	L	Max load	Max Speed	Accuracy
MT2	27	65	46	24	140	100	3500	0.01
MT3	32	81	59	28	170	250	3000	0.015
MT4	34.5	102	64	31	198	400	2500	0.015
MT5	44	130	78	44	245	700	2000	0.02

木工顶尖套装 Live Centers Sets for Wood-working Machines



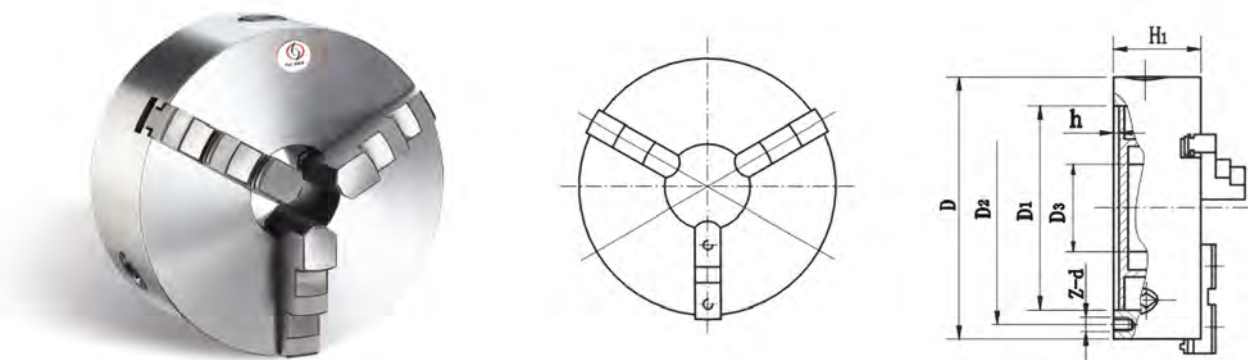
Model	L1	L2	L3	L4	A	B
MT1	69	74	74	91	12.065	56
MT2	82	87	87	104	17.78	69

伞型回转顶尖 Bull Nose Live Centers



Mode	MS.NO	L	L1	D	D1	d	θ
DS2×60(70°)	MS2	132	64	60	17.780	20	70°
DS3×80(75°)	MS3	152	81	80	23.825	19	75°
DS3×100(75°)	MS3	164	81	100	23.825	32	75°
DS4×160(75°)	MS4	225	102.5	160	31.267	35	75°
DS5×200(75°)	MS5	252	129.5	200	44.399	40	75°
DS5×250(75°)	MS5	281	129.5	250	44.399	57	75°
DS6×200(75°)	MS6	320	182	200	63.348	40	75°
DS6×250(75°)	MS6	355	182	250	63.348	57	75°

其它型号可按订单生产 Other sizes can be made as ordered



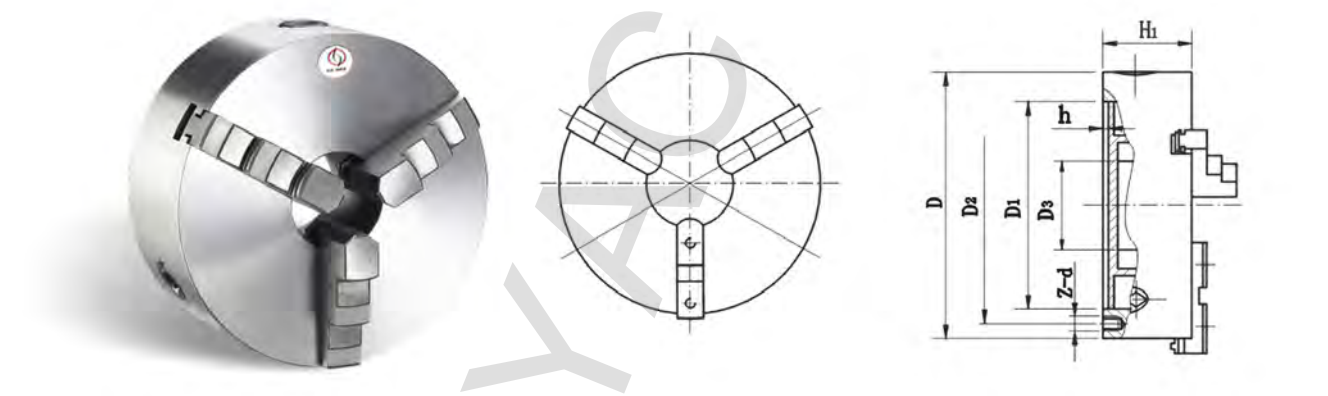
特征:

- 1、短圆柱连接形式。
- 2、钢盘体，适用于较高转速。
- 3、卡爪结构形式分为整体爪和分离爪。

Features:

- 1、Short Cylindrical Center Mounting.
- 2、Steel body. Suitable for higher rotation speed.
- 3、The Structure type of jaws include one-piecc and two-piecc.

Size(D)	D1	D2	D3	H1	h	Z-d	Max.input torque (N.m)	Max.Speed (R/min)	Net WT.
80	55	66	16	50	3.5	3-M6	40	4000	1.9
100	72	84	22	55	3.5	3-M8	60	3500	3.2
125	95/92	108	30	58	4	3-M8	100	3000	5
130	100	115	30	60	4	3-M8	100	3000	5.6
160	130	142	45	65	5	3-M8	160	2500	8.8
165	130	145	45	66.5	4.5	3-M8	160	2500	9.5
190	155	172	55	75	5	3-M10	250	2000	13.8
200	165	180	65	75	5	3-M10	250	2000	15.5
240	195	215	70	80	5	3-M12	320	1600	24
250	206	226	80	80	5	3-M12	320	1600	25.7
250A	206	226	80	80	5	3-M12	320	1600	23.5
250C	206	226	80	80	5	3-M12	320	1600	23
315	260	285	100	90	6	3-M16	400	1200	47
315A	260	285	100	90	6	3-M16	400	1200	41
315C	260	285	100	90	6	3-M16	400	1200	40
320	270	290	100	95	11	3-M16	400	1200	47.5
320C	270	290	100	95	11	3-M16	400	1200	42
325	272	296	100	96	11	3-M16	400	1200	49
380A	325	350	135	98	6	3-M16	500	1000	62
400A	340	368	130	100	6	3-M16	500	1000	71
500A	440	465	200	115	7	6-M16	630	800	118
630A	560	595	260	130	8	6-M16	800	600	210
800A*	710	760	280	150	8	6-M20	1000	730	386
1000A*	910	950	400	165	10	6-M24	1200	600	592



德标三爪、四爪自定心卡盘按照 DIN6350/DIN55026标准生产，适用于德国标准的主轴，并配有前锁式规格。

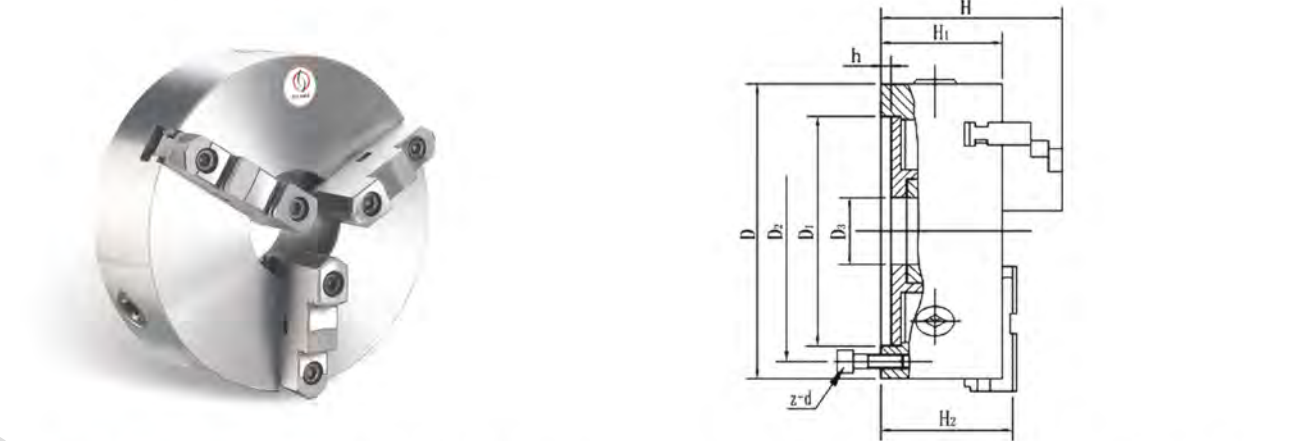
The type three/four jaw self-centering chucks are suitable for the main shaft of four Germany standard, produce according to DIN6350 or DIN55026 standard. It has front lock type as well.

DIN6350

SPEC./MODEL	D1	D2	D3	H1	h	z-d	Nte WT.
80	56	67	16	50	4	3-M6	1.5
85	62	72	18	50	4	3-M6	1.9
100	70	83	22	55	3	3-M8	2.8
110	80	95	27	55	3	3-M8	3.4
125	95	108	30	58	4	3-M8	5
140	105	120	40	58	4	3-M8	6
160	125	140	45	65	5	3-M10	10
200	160	176	65	75	5	3-M10	17.5
250	200	224	80	80	5	3-M12	29
315	260	286	100	90	6	3-M16	50
400	330	362	130	100	6	3-M16	85

DIN55026

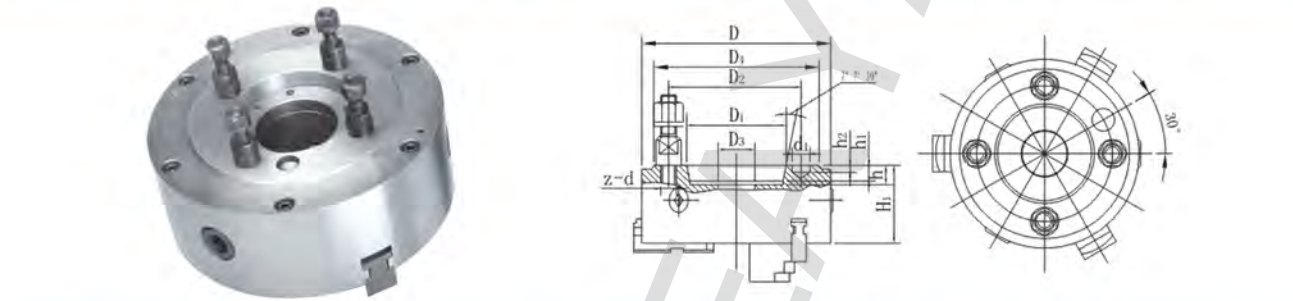
SPEC./MODEL	D1	D2	D3	H1	h	z-d	Nte WT.
80	63	70	17	45	3	3 × M5	1.5
100	80	90	23	52	3	3 × M6	2.8
125	100	110	28	58	4	3 × M8	5
160	130	143	48	62	4	3 × M10	10
200	163	180	52	76	5	3 × M10	17.5
250	210	226	78	82	5	3 × M10	29
315	265	290	108	100	6	4 × M12	50
400	350	375	144	110	7	6 × M12	85
500	420	458	190	120	8	6 × M16	118



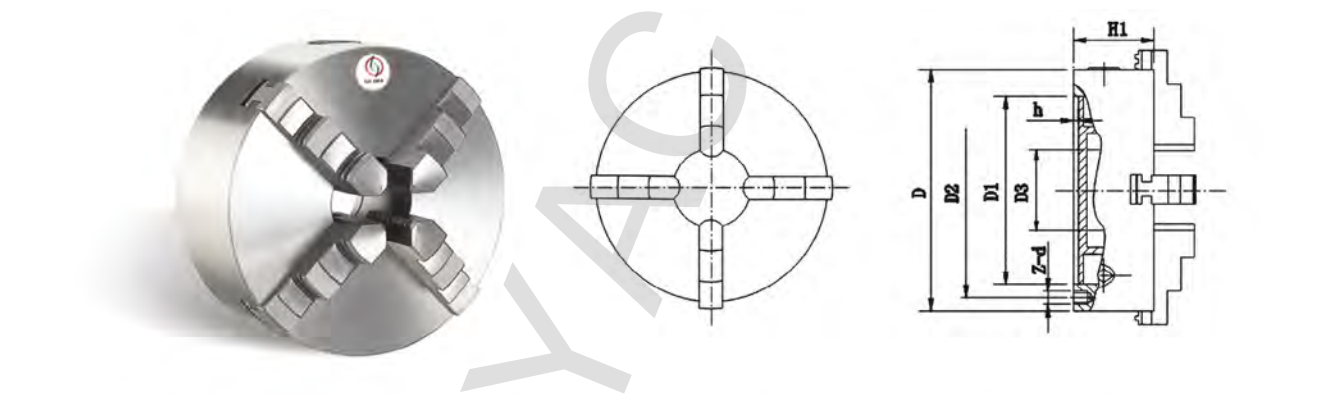
俄标K11系列三爪自定心卡盘，符合ГОСТ2675标准，应用短圆柱连接形式，卡爪型式有整体爪和A型分离爪，A型分离爪符合ISO3442标准，也可以根据用户提供软爪，经随机配车(磨)后，可获得较高定心精度。

Russian Standardized 3-Jaw Self-Centering Chucks adopt short conical connection according to Standard ГОСТ 2675. The jaws have one-piece and two-piece called A type. A type two-piece jaws are according to ISO 3442 Standard. Soft jaws can be provided according to the clients' requests. High centering accuracy can be achieved after machining.

Model	D1	D2	D3	H	H1	H2	h	z-d
7100-0001TT	55	66	16	66	50	-	3.5	3-M6
7100-0002TT	72	86	22	74.5	55	-	3.5	3-M8
7100-0003TT	95	108	30	85	58	-	4	3-M8
7100-0005TT	130	142	40	95	65	-	5	3-M8
7100-0007TT	165	180	65	109	75	-	5	3-M10
7100-0009TT	210	226	80	120	80	-	5	3-M12
7100-0011TT	270	290	100	142.5	90	-	6	3-M12
7100-0015TT	340	368	130	155.5	100	-	6	3-M16
7100-0017TT	440	465	200	176	115	-	6	3-M16



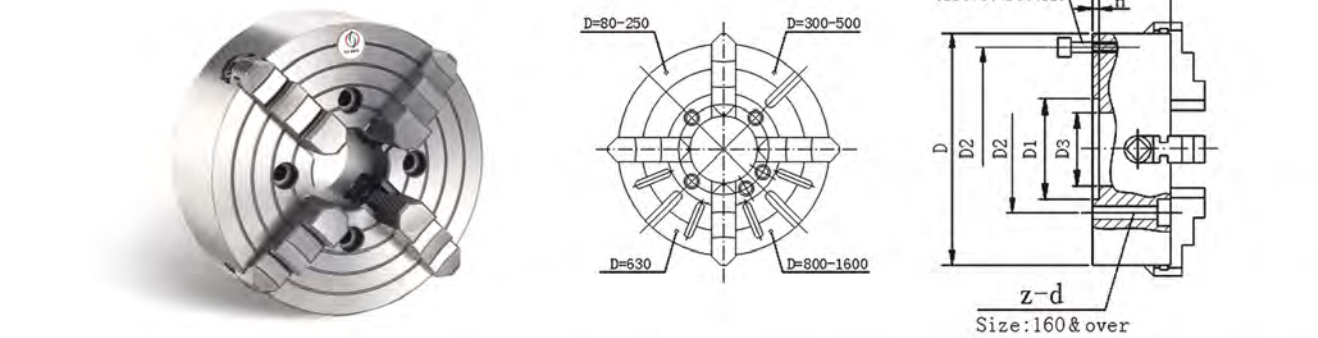
Model	D	D1	D2	D3	D4	H1	h	h1	h2	d1	z-d
7100-0033TT	200	106.375	133.4	60	170	88	16	13	6.5	19.5	4-M12
7100-0035TT	250	106.375	133.4	70	170	95	16	13	6.5	19.5	4-M12
7100-0037TT	250	139.719	171.4	80	220	95	18	14	8	24.2	4-M16
7100-0039TT	315	106.375	133.4	100	170	112	16	13	6.5	19.5	4-M12
7100-0041TT	315	139.719	171.4	100	220	112	18	14	8	24.2	4-M16
7100-0043TT	400	139.719	171.4	130	220	122	18	14	8	24.2	4-M16
7100-0045TT	400	196.869	235	130	290	122	20	16	10	29.4	6-M20



K12 型产品适用于具有一定批量的各种下方形、八棱形零件的加工，可自动定心，快速加紧。本产品的卡爪结构参数与K11系列三爪自定心卡盘的基本相同。

Mode K12 chucks are suitable for using in processing a large quantity of the square workpieces and The eight-edged work-pieces.They are remarkable for their automatic centring and quick clamping.The structure parameters of these chucks are the same as those of K11 series three-jaw self-centring chucks.

Size(D)	D1	D2	D3	H1	h	Z-d	Max.input torque (N.m)	Max.Speed (R/min)	Net WT.
80	55	66	16	50	3.5	4-M6	40	4000	1.9
100	72	84	22	55	3.5	4-M8	60	3500	3.2
125	95	108	30	58	4	4-M8	100	3000	5
130	100	115	30	60	4	4-M8	100	3000	5.6
160	130	142	45	65	5	3-M8	160	2500	8.8
165	130	145	45	66.5	4.5	3-M8	160	2500	9.5
190	155	172	55	75	5	3-M10	250	2000	13.8
200	165	180	65	75	5	3-M10	250	2000	15.5
240	195	215	70	80	5	3-M12	320	1600	24
250	206	226	80	80	5	3-M12	320	1600	25.7
250A	206	226	80	80	5	3-M12	320	1600	23.5
250C	206	226	80	80	5	3-M12	320	1600	23
315	260	285	100	90	6	3-M16	400	1200	47
315A	260	285	100	90	6	3-M16	400	1200	41
315C	260	285	100	90	6	3-M16	400	1200	40
320	270	290	100	95	11	3-M16	400	1200	47.5
320C	270	290	100	95	11	3-M16	400	1200	42
325	272	296	100	96	11	3-M16	400	1200	49
380A	325	350	135	98	6	3-M16	500	1000	62
400A	340	368	130	100	6	3-M16	500	1000	71
500A	440	465	200	115	7	6-M16	630	800	118
630A	560	595	260	130	8	6-M16	800	600	210
800A*	710	760	280	155	8	6-M20	1000	730	390
1000A*	910	950	400	165	10	6-M24	1200	600	596



短圆柱连接形式，单动可调，适用各种形状工件的加工。

Chucks adopt short cyindrical center mounting. They are Independent and a djustable and for machining all kinds of special-shaped workpieces.

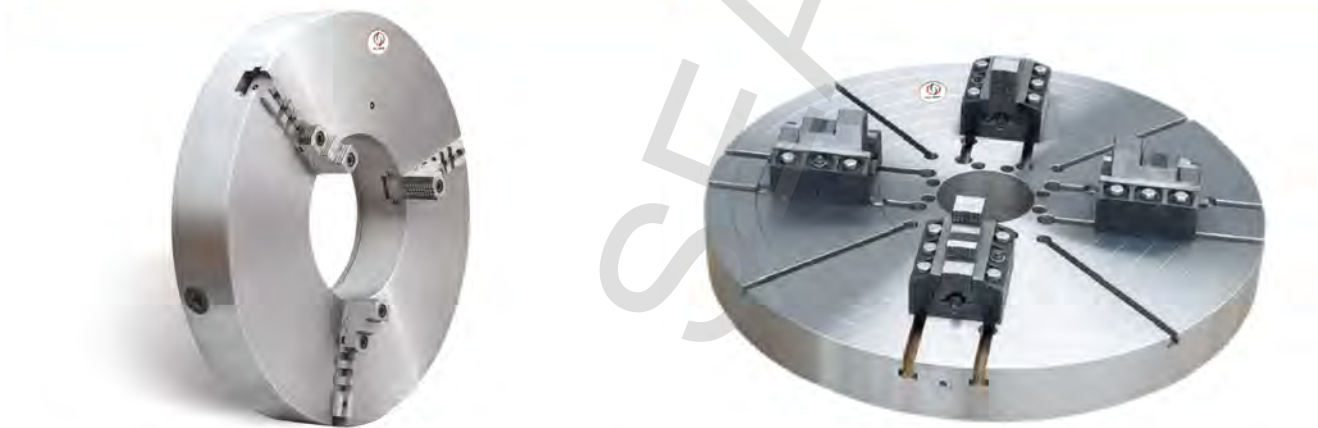
Size(D)	D1	D2	D3	H1	h	Z-d	Max.input torque (N.m)	Max.Speed (R/min)	Net WT.
50	15	38	M14x1	39	5	4-M4	10	6000	0.55
80	55	66	22	42	3.5	4-M6	25	4000	1.5
100	72	84	25	74	3.5	4-M8	30	3500	3
125	95/92	108	30	56	4.5	4-M8	50	3000	5
160	65	95	45	65	5	4-M10	70	2500	9
200	80/75	112/95	56	75	6	4-M10	100	2000	15
250	110	130	75	80	6	4-M12	150	1600	23
300	152	130	75	90	6	4-M12	180	1200	39
320	140	165	95	90	6	4-M16	200	1200	40
350	130	168	95	90	6	4-M16	250	1200	53
400	160	185	125	95	8	4-M16	280	1000	55
450	180	205	140	100	8	4-M16	300	900	71
500	200	236	160	106	8	4-M20	350	800	102
630	220	258	180	115	10	4-M20	400	600	159
800	250	300	240	135	12	8-M20	500	500	255
1000	285	330.2	280	152	23	8-M24	600	400	430
1250	285	330.2	280	156	23	8-M24	-	-	735
1400	285	330.2	280	156	23	8-M24	-	-	860
1600	285	330.2	280	168	23	8-M24	-	-	1250

K13 大直径自定心卡盘

K13 Series Large Diameter Self-centring Chucks

K78 大直径重型四爪单动卡盘

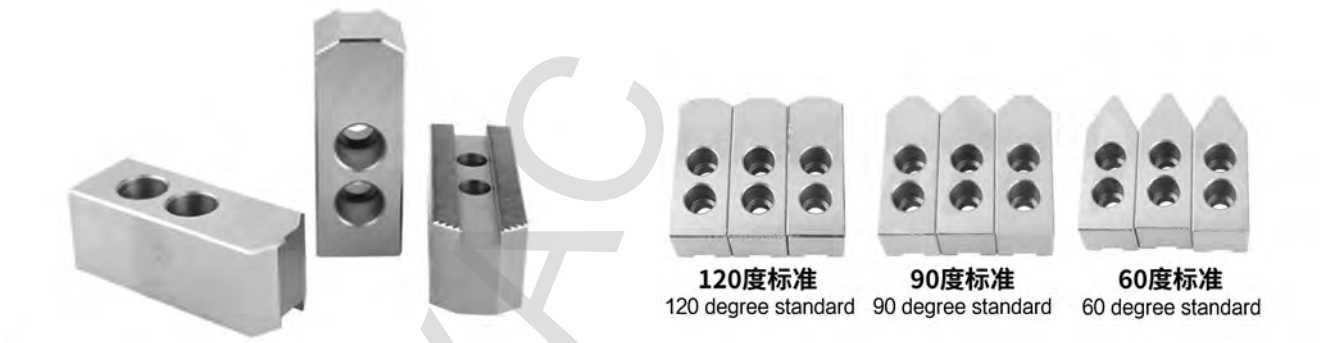
K78 Series Large Diameter Heavy-duty 4-jaw Independent Chucks



Sizes（规格）：1250 -- 2600mm

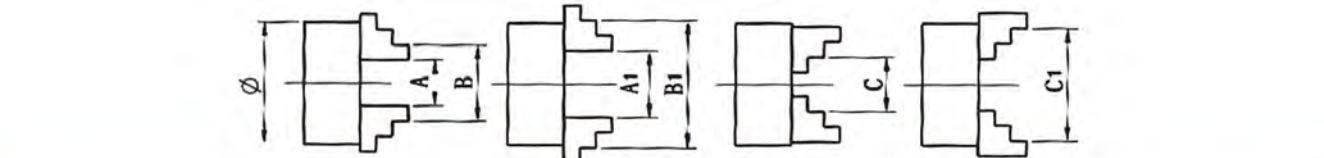
Sizes（规格）：1600--3000mm

Any other sizes can be supplied as ordered. 其它规格可按订单生产供货。

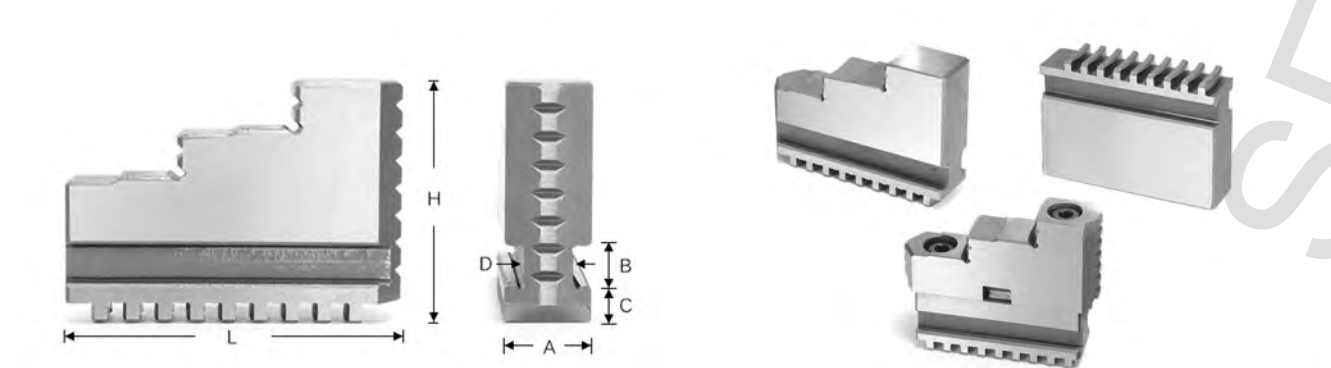


120度标准 120 degree standard 90度标准 90 degree standard 60度标准 60 degree standard

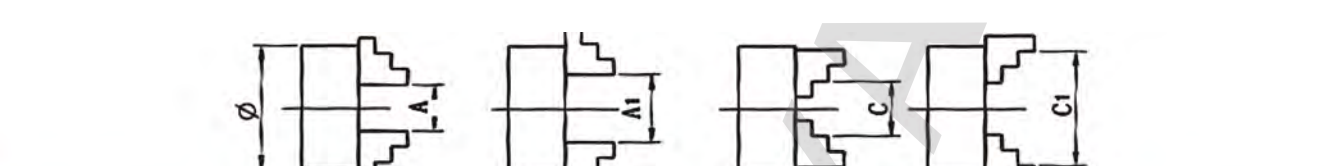
Model	L	W	H	D	Center distance of screw hole	Tooth pitch	Universal chuck
4 inch	49.5	23	23	10	14	1.5°60°	4寸卡盘 (外径110)
5 inch	54	25	30	10	14	1.5°60°	5寸卡盘 (外径135)
6 inch	73	31	36	12	20	1.5°60°	6寸卡盘 (外径169)
8 inch	95	35	37	14	25	1.5°60°	8寸卡盘 (外径210)
10 inch	110	40	42	16	30	1.5°60°	10寸卡盘 (外径254)
12 inch hollow	130	50	50	21	30	1.5°60°	12寸卡盘 (外径304)
12 inch solid	130	50	50	18	30	1.5°60°	12寸卡盘 (外径304)
15 inch hollow	165	62	62	22	43	1.5°60°	15寸卡盘 (外径381)



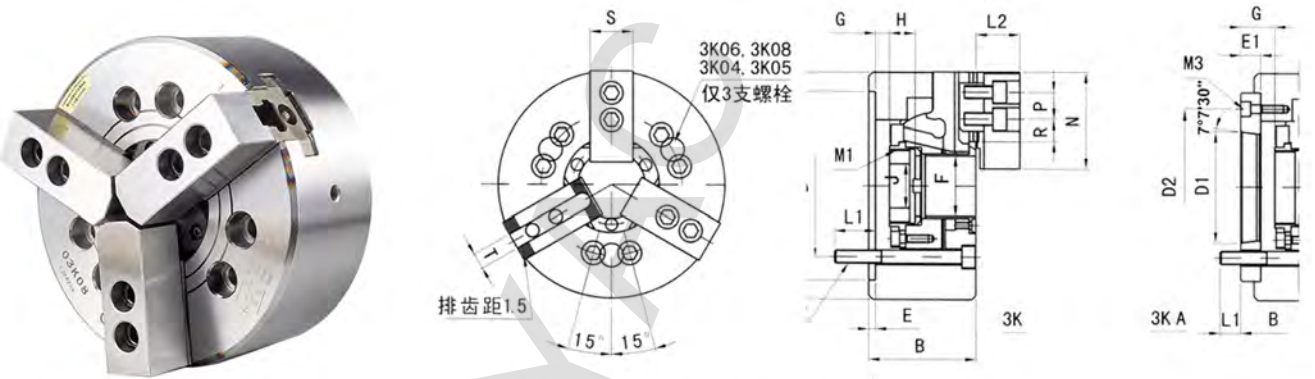
Size	正爪 Internal Jaw		反爪 External Jaw
	夹持范围 Clamping Range	撑紧持范围 Jamming Range	夹持范围 Clamping Range
	A-A1	B-B1	C-C1
80	2-22	25-70	22-63
100	2-30	30-90	30-80
125	2.5-40	38-125	38-110
160	3-55	50-160	55-145
200	4-85	65-200	65-200
250	6-110	80-250	90-250
315	10-140	95-315	100-315
400	15-210	120-400	120-400
500	25-280	150-500	150-500
630	50-350	170-630	170-630
800	150-450	300-800	300-800
1000	290-600	430-1000	430-1000



Model	A	B	C	D	H	L	mention
80	12	7	5.5	5.2	33	32	5
100	15	8	6.4	6.6	38	42	6
125/130	16	8	6.9	7.5	45	57.3	7
160	18.5	10	9	8.4	54	70	7
200	22	10	10	12.3	6	85	9
250	27	10	12	16	69	105	9
320	36	13	14	22	88	125	10
400	36	13	14	23	88	125	11



Size	正爪 Internal Jaw		反爪 External Jaw
	夹持范围 Clamping Range		夹持范围 Clamping Range
	A-A1		C-C1
80	5-35		35-80
100	6-45		40-100
125	7-57		48-125
160	8-80		50-160
200	10-100		63-200
250	15-130		80-250
315	20-170		100-315
400	25-250		118-400
500	35-300		120-500
630	50-400		160-630
800	70-540		200-800
1000	100-680		250-1000
1250	120-930		280-1250



- 中空型设计，可用于较长工件加工。重复定位精准度高，夹紧力大。
- Hollow design can be used for long workpiece processing. It boasts sound accuracy for positioning repetition, sound clamp force and suitability for automatic production.

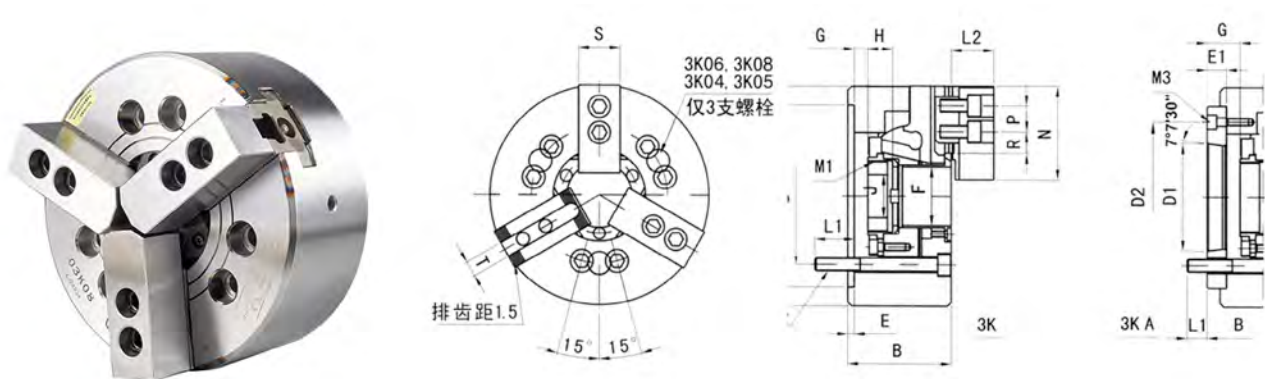
尺寸参数 / Performance Parameters

规格 Specification		A	B		C (H6)	D	D1	D2	E	E1	F	G				H	J
												max		min			
3K-04		110	59		85	70.6	-	-	4	-	26	3.5		-6.5		17.5	12
3K-05	A4	135	60	71	110	82.6	63.51	96		15	33	1	16	-9	6	20	
3K-06	A5	169	81	91	140	104.8	82.56	116	5		45	11	26	-1	14	19	20
3K-08	A5	210	91	109	170	133.4		140.8		23	52	14.5	37.5	-1.5	21.5	20.5	30
	A6			103		150	17	31.5		15.5							
3K-10	A6	254	100	120	220	171.4	133.4	25		75	8.5	33.5	-10.5	14.5	25	45	
	A8			113		139.72	190	18	26.5			7.5					
3K-12	A8	304	120	137	220	171.4	139.72	190	5	22	92	23	45	0	22	32	

规格 Specification		L1	L2	M1	M2	M3	N	P	R		S	T
									max	min		
3K-04		16	24	M32*1.5	3-M10	-	52	14	11.3	6.8	25	10
3K-05	A4	15	15	31	M40*1.5	3-M10	62	14	19.8	7.8	25	10
3K-06	A5	16	16	37	M55*2	3-M10	73	20	22.8	9.3	31	12
3K-08	A5	20	17	38	M60*2	3-M12	95	25	29.8	14.8	35	14
	A6		18									
3K-10	A6	22	43	M85*2	6-M16	6-M12	30	30	33.8	14.3	40	16
	A8		24			3-M8						
3K-12	A8	38	52	M100*2	6-M16	6-M10	30	30	21.2	15.9	50	18

尺寸参数 / Performance Parameters

规格 Specification		楔心行程 mm Wedge core travel	爪行程直径 mm Jaw stroke t (Diameter)	许用推拉力 KN(kgf) Permitted push-pull force	最大夹紧力 KN(kgf) Max. gripping force	极限转速 r/min Limited rotating speed (r/min)	夹紧范围 mm Clamping range	惯量 Inertia Kg.m²	净重 kg Net weight		推荐油缸 Recommended oil cylinde	最大使用压力 MPa(kgf) Max. application pressure
3K-04		10	5.4	13.7(1400)	28.4(2900)	8000	1-110	0.01	4		KY-428	2.3(23)
3K-05	A4			17.1(1750)	35.8(3650)	7000	12-135	0.02	6.7	7.5	KY-536	2.9(29)
3K-06	A5	12	5.5	21.5(2200)	56.8(5800)	6000	15-168	0.06	11.9	13.7	KY-646	2.8(28)
3K-08	A5	16	7.4	34.3(3500)	85.8(8750)	5000	13-210	0.18	22.5	25.4	TK-852	2.8(28)
	A6								23.6			
3K-10	A6	17	8.8	42.6(4380)	110.7(11300)	4200	31-254	0.33	34.5	41.5	KY-1075	2.7(27)
	A8								40			
3K-12	A8	23	10.6	54(5510)	140.4(14326)	3200	35-304	0.42	58.5		P2091	2.6(27)



- 重复定位精准度高，夹紧力大，适合自动化生产。
- It boasts sound accuracy for positioning repetition, sound clamp force and suitability for automatic production.

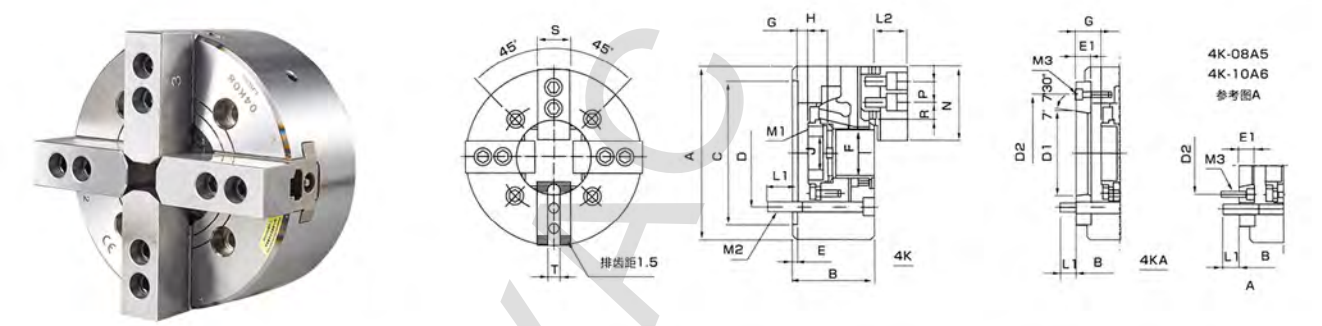
尺寸参数 / Performance Parameters

规格 Specification		A	B		C (H6)	D	D1	D2	E	E1	F	G				H	J	
												max		min				
3S-04		110	52		60	80	-	-	6	-	-	18		3		25	26	
3S-15		135	55		80	100	-	-	7	-	-	9		-6		35	28	
3S-16	A5	165	74	84	140	104.8	82.56	116	5	15	21	101.5	86.5	81.5	66.6	36	34	
3S-08	A5	210	85	103	170	133.4		104.8		23	25	127	104	106	83		45	
	A6			97			150	17		110			89					
3S-10	A6	254	89	109	220	171.4	133.4	25		34	158	133	133	108	50			
	A8			102			139.72	190	18			140				115		
3S-12	A6	304	106	125	220	171.4	106.38	133.4	6	25	34	163	138	133		108	36	50
	A8			118			139.72	190		18			145					

规格 Specification		L1	L2	M1	M2	M3	N	P	R		S	T
									max	min		
3S-04		12	25	M10*1.5	3-M8	-	52	14	11.3	8.3	25	10
3S-15		14	32	M12*1.75	3-M8	-	62	14	13.5	6	25	10
3S-16	A5	14	14	39	M16*2	3-M10	73	20	18	7.5	31	12
3S-08	A5	20	17	41	3-M12	6-M10	95	25	22.3	11.8	35	14
	A6		18		3-M6							
3S-10	A6	18	25	46	6-M16	6-M12	110	30	30.8	11.3	40	16
	A8				3-M8							
3S-12	A6	18	18	51	6-M16	6-M12	130	30	48.8	12.3	50	18/21
	A8		25		3-M8							

尺寸参数 / Performance Parameters

规格 Specification	楔心行程 mm Wedge core travel	爪行程直径 mm Jaw stroke t (Diameter)	许用推拉力 KN(kgf) Permitted push-pull force	最大夹紧力 KN(kgf) Max. gripping force	极限转速 r/min Limited rotating speed (r/min)	夹紧范围 mm Clamping range	惯量 Inertia Kg.m²	净重 kg Net weight	推荐油缸 Recommended oil cylinde	最大使用压力 MPa(kgf) Max. application pressure
3S-04	15	6.4	8.1(830)	22.5(2300)	6000	5-110	0.01	4.1	SY-80	2.2(22)
3S-15				25(2550)	5500	14-135	0.02	6.2	SY-80/SQ-130	
3S-16	A5	20	17.9(1830)	52.4(5350)	5250	14-165	0.05	13	14	3.0(30)
3S-08	A5	21	25(2550)	74.5(7600)	4750	17-210	0.14	24	28	2.6(26)
	A6								27	
3S-10	A6	25	28.9(2950)	107.8(11000)	4000	22-254	0.30	35	42	3.0(30)
	A8								40	
3S-12	A6	30	41(4180)	155.8(15900)	3360	22-304	0.73	59	65	3.0(30)
	A8								63	



高速运转平稳，坚固耐用。
重复定位精度高，夹紧力大。
特别适合异性工件的夹持。
中空型设计，可用于较长工件加工。

The Product,solid and durable,can operate smoothly at high speed.
It boasts sound accuracy for positioning repetition,sound clamp force
and suitability for automatic production.
It is especially suitable for clamping atypical work pieces.
The through-hole type is designed to process long work pieces.

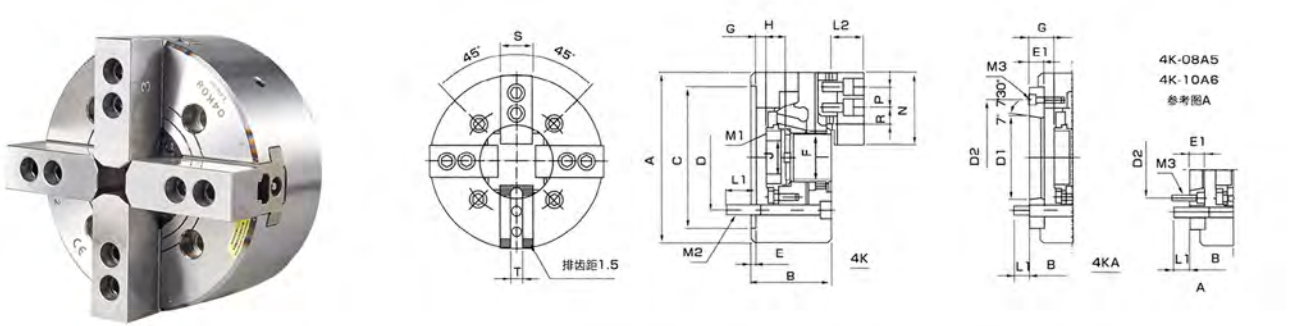
尺寸参数

规格 Specification		A	B		C (H6)	D	D1	D2	E	E1	F	G				H	J	
												max		min				
4K-06	A5	169	81	91	140	104.8	82.56	116	5	15	45	11	26	-1	14	19	20	
4K-08	A5	210	91	109	170	133.4		104.8		23	52	14.5	37.5	31.5	-1.5	21.5	15.5	20.5
	A6			103			150	17										
4K-10	A6	254	100	120	220	171.4	106.38	133.4		25	75	8.5	33.5	-10.5	14.5	25	45	
	A8			113			139.72	190	18	26.5	7.5							

规格 Specification		L1		L2	M1	M2	M3	N	P	R		S	T
										max	min		
4K-06	A5	16	16	37	M55*2	6-M10	3-M6	73	20	22.8	9.3	31	12
4K-08	A5	20	17	38	M80*2	4-M12	6-M10	95	25	29.8	14.8	35	14
	A6		18				3-M6						
4K-10	A6	22	24	43	M82*2	4-M16	6-M12	110	30	33.8	14.3	40	16
	A8						3-M8						

性能参数

规格 Specification		楔心行程 mm Wedge core travel	爪行程直径 mm Jaw stroke t (Diameter)	许用推力 KN(kgf) Permitted push- pull force	最大夹紧力 KN(kgf) Max. gripping force KN(kgf)	极限转速 r/min Limited rotating speed (r/min)	夹紧范围 mm Clamping range	惯量 Kg.m ² Inertia	净重 kg Net weight	推荐油缸 Recommended oil cylinde	最大使用压力 MPa(kgf) Max. application pressure
4K-06	A5	12	5.5	21.5(2200)	56.8(5800)	6000	15-168	0.06	11.9	13.7	2.8(28)
4K-08	A5	16	7.4	34.3(3500)	85.8(8750)	5000	13-210	0.18	0.18	TK-852	2.8(28)
	A6										
4K-10	A6	19	8.8	42.6(4380)	110.7(11300)	4200	31-254	0.33	0.33	KY-1075	2.7(27)
	A8										



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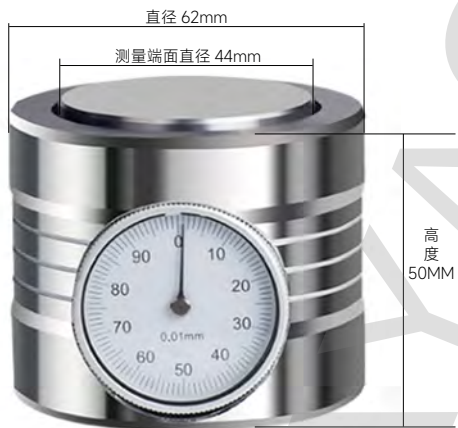
尺寸参数

规格 Specification		A	B		C (H6)	D	D1	D2	E	E1	F	G				H	J
												max		min			
4S-06	A5	169	74	84	140	104.8	82.56	116	5	15	21	101.5	86.5	81.5	66.6	36	34
4S-08	A5	210	85	103	170	133.4		104.8		23	25	127	104	106	83		38
	A6			97			150	17		110			89				
4S-10	A6	254	89	109	220	171.4	106.38	133.4		25	34	158	133	133	108		45
	A8			102				139.72		18	140	115					

规格 Specification		L1		L2	M1	M2	M3	N	P	R		S	T
										max	min		
4S-06	A5	14	16	39	M16*2	4-M10	3-M6	73	20	18	7.5	31	12
4S-08	A5	20	17	41	M20*2.5	4-M12	6-M10	95	25	22.3	11.8	35	14
	A6		18			3-M6							
4S-10	A6	18	24	46		4-M16	6-M12	110	30	30.8	11.3	40	16
	A8					3-M8							

性能参数

规格 Specification		楔心行程 mm Wedge core travel	爪行程直径 mm Jaw stroke t (Diameter)	许用推力 KN(kgf) Permitted push- pull force	最大夹紧力 KN(kgf) Max. gripping force KN(kgf)	极限转速 r/min Limited rotating speed (r/min)	夹紧范围 mm Clamping range	惯量 Kg.m ² Inertia	净重 kg Net weight	推荐油缸 Recommended oil cylinde	最大使用压力 MPa(kgf) Max. application pressure
4S-06	A5	20	9.2	17.9(1830)	52.4(5350)	5250	14-165	0.05	13	14	3.0(30)
4S-08	A5	21	9.7	25(2590)	74.5(7600)	4750	17-210	0.14	24	SY-125	2.6(26)
	A6										
4S-10	A6	25	8.8	28.9(2950)	107.8(11000)	4000	22-254	0.3	35	SQ-170B	3.0(30)
	A8										



机械带表 Z 轴设定仪

- 特点:
- 1、在 CNC、铣床、车床上设定刀长用
 - 2、测量高度: $50.00 \pm 0.01\text{mm}$
 - 3、量测面大, 操作容易
 - 4、弹簧力较小, 可避免小铣刀或钻头断裂
 - 5、用研磨过的平行板即可简单设定
 - 6、平行度及各方面使用灵敏, 精度更好



机械带表 Z 轴设定仪 (100mm 高)

- 特点:
- 1、机械表盘设计、大测量面、操作更方便
 - 2、弹簧力较小可避免小铣刀小钻头断裂
 - 3、高度公差值: $\pm 0.0\text{mm}$ 可吸附水平面使用
 - 4、精度测量值: 0.01mm
 - 5、重量: 1.82KG
 - 6、高度 100mm , 属于加高型

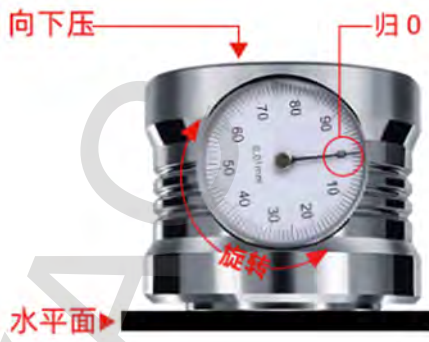


光电式 Z 轴设定仪

- 特点:
- 1、高度 50mm
 - 2、磁性底座
 - 3、接触时红灯亮起
 - 4、精度: 0.005mm
 - 5、可吸附做水平和垂直使用
 - 6、重量: 0.5kgs



转动表盘, 使零转到顶部



转动表盘, 使零转到顶部



数显式 Z 轴设定仪

- 特点:
- 1、精度 0.001
 - 2、大面板数字带光显示
 - 3、IP65 等级防水
 - 4、5 分钟无操作自动断电
 - 5、归“0”位灯光提示
 - 6、高度公差值: $\pm 0.05\text{mm}$



缓慢下刀 指针归零



将 Z 轴设定仪置于工件上, 刀具接触测量面, 请慢速进刀使指针指在“0”则刀具与上把刀具距离同等, 与工件的高度差距离是 550mm

**Z-Axis Scale Zero Setters with Magnetic****Characteristic:**

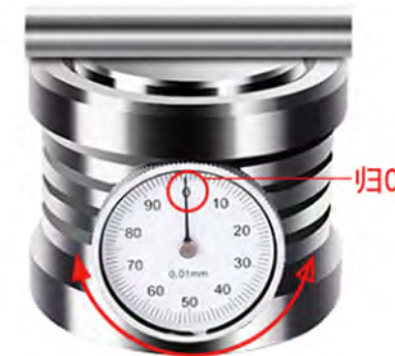
- 1、Set the tool length on CNC, milling machine, and lathe
- 2、Measurement height: $50.00 \pm 0.01\text{mm}$
- 3、Large measurement surface, easy to operate
- 4、Low spring force can prevent small milling cutters or drill bits from breaking
- 5、Simply set using a ground parallel plate

**Z-axis Scale Zero Setters with Magnetic meter (height 100mm)****Characteristic:**

- 1、Mechanical dial design, large measuring surface, and easy to operate
- 2、Low spring force can prevent small milling cutters and drill bits from breaking
- 3、Height tolerance value: $\pm 0.0\text{mm}$ can be adsorbed on a horizontal surface for use
- 4、Precision measurement value: 0.01mm
- 5、Weight: 1.82KG
- 6、Height 100mm , belonging to the elevated type

**Z-Axis Scale Zero Setters with Electro-optical****Characteristic:**

- 1、Height 50mm
- 2、Magnetic base
- 3、Red light comes on when touched
- 4、Accuracy: 0.005mm
- 5、Can be adsorbed for horizontal and vertical use
- 6、Weight: 0.5kgs



Rotate the dial to turn zero to the top



Measurement downwards and press it down to make it parallel to the horizontal plane

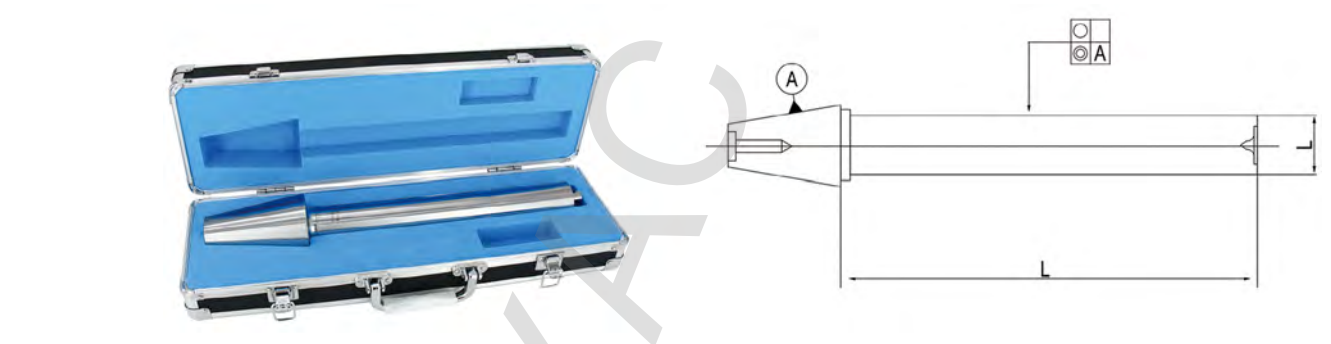
**Digital Z-Axis Scale Zero Setters****Characteristic:**

- 1、Precision 0.001
- 2、Large panel digital illuminated display
- 3、IP65 grade waterproof
- 4、Automatic power outage without operation for 5 minutes
- 5、Return to "0" position light prompt
- 6、Height tolerance value: $\pm 0.05\text{mm}$



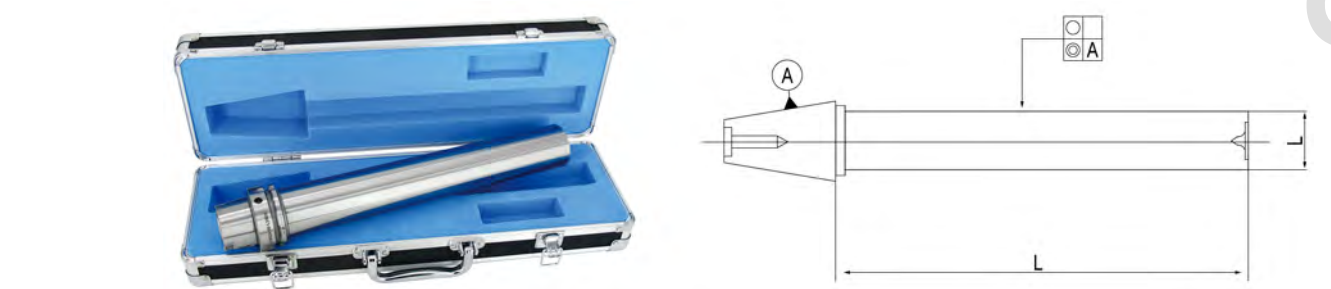
Rotate the dial indicator pointer to zero and start calibration

Put the Z-axis setter on the workpiece, and the tool contacts the measuring surface. Slowly feed the tool so that the pointer is at "0". The distance between the tool and the upper tool is equal, and the height difference distance between the tool and the workpiece is 550mm



Model	D	L	圆柱度 Cylindricity	同轴度 Concentricity
BT30-CD30-200	30	200	0.002	0.003
BT30-CD30-250	30	250	0.002	0.003
BT40-CD40-250	40	250	0.002	0.003
BT40-CD40-300	40	300	0.002	0.003
BT40-CD40-350	40	350	0.002	0.003
BT50-CD40-315	40	315	0.002	0.003
BT50-CD40-350	40	350	0.002	0.003
BT50-CD40-400	40	400	0.002	0.003
BT50-CD63-315	63	315	0.002	0.003
BT50-CD63-350	63	350	0.002	0.003
BT50-CD63-400	63	400	0.002	0.003

HSK 检测棒 HSK Spindle Test Arbor



Model	D	L	圆柱度 Cylindricity	同轴度 Concentricity
HSK32A/E-CD25-200	25	200	0.002	0.003
HSK40A/E-CD30-200	30	200	0.002	0.003
HSK50A/E-CD30-250	30	250	0.002	0.003
HSK63A/E-CD40-300	40	300	0.002	0.003
HSK100A/E-CD50-300	50	300	0.002	0.003



BT 系列加硬锁刀座
BT Series Harden Cocking Devices

型号 /Model	适配刀柄
ZZ-BT30	MAS403-BT30
ZZ-BT40	MAS403-BT40
ZZ-BT50	MAS403-BT40



全铝加硬锁刀座
BT Series Aluminum Harden Locking Devices

型号 /Model	适配刀柄
BT30	MAS403-BT30
BT40	MAS403-BT40
BT50	MAS403-BT40



轴承式锁刀座
Locking Devices With Bearings

型号 /Model	适配刀柄
BD-BT30	NBT30/BT30
BD-HSK40	HSK40A/40E
BD-HSK50	HSK50A/50E
BD-HSK63	HSK63/E NBT40/ BT40



仰式锁刀座
Tool Holder Tightening Fixture

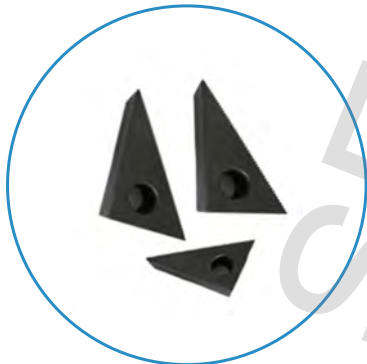
适用刀柄 Applicable handle
BT30/40/50 刀柄



Type A



Type B



阶梯垫铁 12 个
Step Blocks 12Pcs



阶梯压板 6 个
Step Clamps 6Pcs



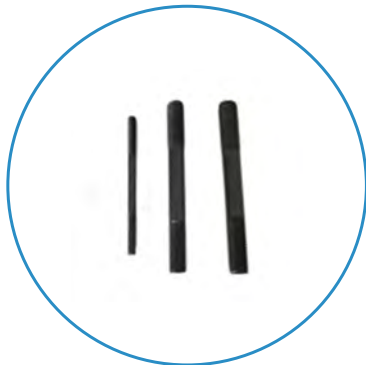
T 型螺母 6 个
T-Nuts 6Pcs



连接螺母 4 个
Coupling Nuts 4Pcs

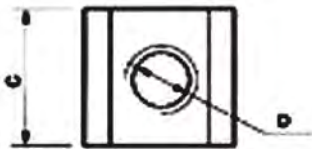
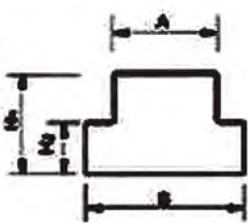


法兰螺母 6 个
Flange Nuts 6Pcs



双端螺栓 24 个
Studs 24Pcs

材质 Material: S45C; 硬度 Hardness: HRC20±;
Heat treated steel black oxide finish. 表面氧化处理;
套装共包含配件 58Pcs The set contains 58Pcs;



D	A	B	C	H1	H2
M8	10	15	15	12	6
M10	12	18	20	14	7
M12	14	22	25	16	8
M14	16	25	25	16	10
M16	18	29	30	19	10.5
M18	20	34	34	28	14
M20	22	34	34	28	14
M22	24	40	40	28	15



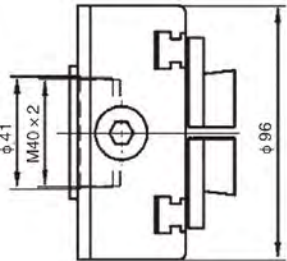
M18- M24

Model	Taiwan Code	Table Slot	Stud Sizes	G.W.	GB
M8	CK-08	10	8-1.25P	7	
M10	CK-10	12	10-1.25P	9	3/8-16
M12	CK-12	14	12-1.75P	10	1/2-12
M14	CK-14	16	14-2.0P	11	
M16	CK-16	18	16-2.0P	13	5/8-11
M18	CK-18	20	18-2.5P	25	
M20	CK-20	22	20-2.5P	26	3/4-10
M22	CK-22	24	24-3.0P	30	7/8-9



Metric	Taiwan Code	Table Slot	Stud Size	Wt.
M8	CK-08	10	8-1.25P	6.1
M10	CK-10	12	10-1.25P	7.09
M12	CK-12	14	12-1.25P	8.6

木工卡盘 Wood-working Scroll Chucks

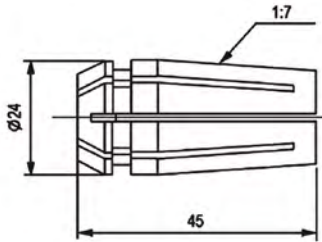


Model	Clamping	Thread Connection	Wt.
4"	8-60mm	M33×3.5;M40×2;1"-1/8TPI	2.3/3
5"	20-100mm	M33×3.5;M40×2;1"-10TPI;1"-1/4-8	4.2/5

滚花刀 Hobbing cutter



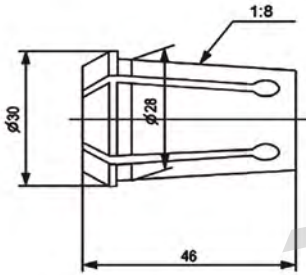
花纹类型 Grain type	轮径 Wheel(mm)	规格 Size(mm)
直纹 Stralght grain	19	0.5-0.6-0.8-1.0-1.2-1.6-2.0mm
	28	0.3-0.4-0.5-0.6-0.8-1.0-1.2-1.5-1.6-1.8-2.0-2.2-2.5-3.0mm
网纹 Net grain	19	0.5-0.6-0.8-1.0-1.2-1.6-2.0mm
	26	0.3-0.4-0.5-0.6-0.8-1.0-1.2-1.5-1.6-1.8-2.0-2.2-2.5-3.0mm



Collets Taper: 1:7

Model	Hole Sizes		PCS/Set	Shank Sizes	Wt.
	mm	Inch			
J7316A/NT30	4,5,6,8,10,12,14,16	1"	8	NT30	3.373
J7316A/NT40		3/16"		NT40	3.708
J7316A/MT2		1/4"		MT2	3.52
J7316A/MT3		5/16"		MT3	3.752
J7316A/MT4		3/8"		MT4	4.646
		1/2"			
		9/16"			
		5/8"			

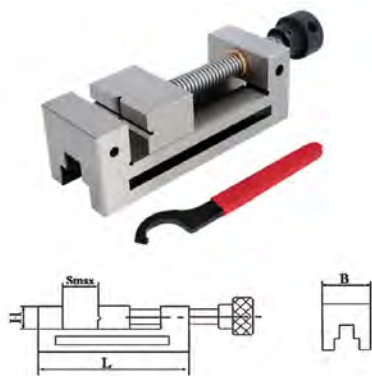
J7316B 铣夹头套装 J7316B Collets & Chuck Sets



Collets Taper: 1:8

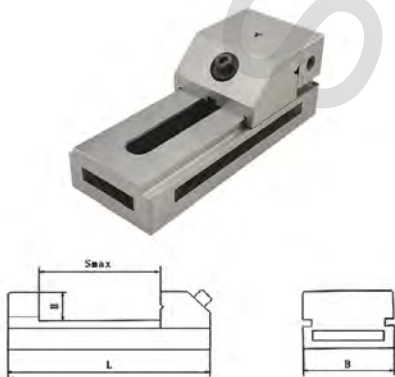
Model	Hole Sizes		PCS/Set	Shank Sizes	Wt.
	mm	Inch			
J7316B/MT2	6	1/8"	8	MT2	3.52
J7316B/MT3		3/16"		MT3	3.752
J7316B/MT4		1/4"		MT4	4.646
J7316B/NT30	8	5/16"		NT30	3.373
J7316B/NT40		3/8"		NT40	3.708
J7316B/1"	10	1/2"		1"	3.80
J7316B/1-1/4"	12	1/2"		1-1/4"	4.506
J7316B/R8	14	9/16"		R8	3.58
	16	5/8"			

QGG 精密平口钳 QGG Precisiion Tool Vices



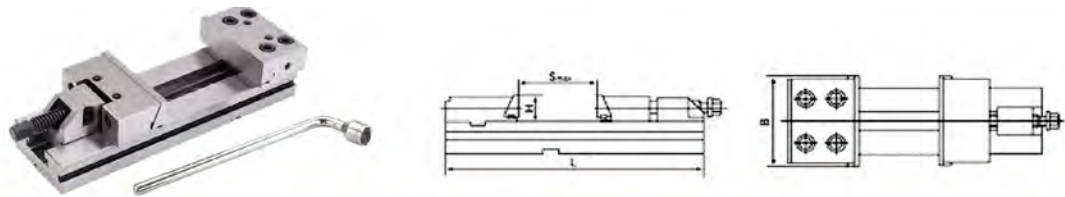
Model	B	H	S-max	L	Wt.
QGG50	50	25	65	155	3
QGG63	63	32	85	190	3.8
QGG80	80	40	100	220	6.5
QGG100	100	45	125	260	13
QGG125	125	50	210	350	23
QGG150	150	50	175	315	23.8

QKG 精密工具平口钳 QKG Precision Tool Vices



Model	B	H	S-max	L	Wt.
QKG25	25	9.15	22	65.4	0.5
QKG50	50	25	65	140	2.0
QKG63	63	32	85	175	3.0
QKG73	73	35	100	190	4.1
QKG80	80	40	100	200	5.5
QKG88	88	40	125	235	7.3
QKG100	100	45	125	245	10.0
QKG125	125	50	160	285	18.0
QKG150	150	50	200	330	21.5

GT 精密组合平口钳 GT Precision Moldular Vices



Model	Size	B	H	Smax	L	Clamping Force
GT125	125 × 40 × 150	125	40	150	345	3000
GT150A	150 × 50 × 200	150	50	200	420	5000
GT175A	175 × 60 × 200	175	60	200	455	6000
GT175B	175 × 60 × 300	175	60	300	555	6000
GT200C	200 × 60 × 400	200	65	400	695	10000
GT200D	200 × 60 × 500	200	65	500	795	10000
GT300C	300 × 80 × 400	300	80	400	735	12000
GT300D	300 × 80 × 500	300	80	500	835	12000

QHK 型可倾平口钳 Live Centers for Wood-working Machines



Performance and character 性能及特点

1.It is made of ductile cast iron(HT200).
由延展性较强的铸铁制造而成（球磨铸铁200）

2.The accuracy of vice is parallelism at 0.025mm/100mm and squareness at 0.025.
两钳口的平行度是0.025mm/100mm，两钳口对导轨面的垂直度是0.025mm

3.It is widely used on machine tool in making some kinds of solots,holes and faces.
广泛应用于加工中心等精密机床

Model	Width of jaw	Height of jaw	Max.Opening	G.W./N.W.
QHK100	100	41	80	18/17
QHK125	125	45	95	28/27
QHK125L	125	45	140	28/27
QHK160	160	50	125	40/39

角固式精密平口钳 QB Planning Machine Vices(QB=Q13)



Performance and character:性能及特点

1.It is made of high-quality cast iron.采用高质量的铸铁材料

2.The accuracy of vice is Parallelism at 0.025mm/100mm and squareness at 0.025.
两钳口的平行度是0.025mm/100mm，两钳口对导轨面的垂直度是0.025mm.

3.It used on machining and EDM complex parts.
广泛采用与机械加工、电加工等复杂零件的使用

Model	Width of jaw	Height of jaw	Max.Opening	G.W./N.W.
QW100	105	40	105	26/25
QW125	125	44	125	27/26

Q93 型双向角度压紧平口钳 Q93 Double-action Angle Tight Vices



Model	Width of jaw	Height of jaw	Max. Opening	QTY/Case	G.W./N.W.
Q93100	100	35	76	1	15/14
Q93160	160	50	100	1	37/36

铣床平口钳 QH Milling Machine Vices (QH=Q12)



Erformance and character 性能及特点

- It is made of ductile cast iron(HT200). 由延展性较强的铸铁制作而成。(球墨铸铁 200)
- The accuracy of vice is parallelism at 0.025mm/100mm and squareness at 0.025. 两钳口的平行度是 0.025mm/100mm，两钳口对导轨面的垂直度是 0.025mm
- It is widely used on milling and drilling machine for making some kinds of slots, holes and faces 广泛用于铣床、刨床、钻床等各种平面、沟槽、角度、孔等加工。

Model	Width of jaw	Height of jaw	Max.Opening	G.W./N.W.
QH80	80	30	60	30/28
QH100	100	35	80	45/44
QH125	125	40	100	18/17
QH160	160	52	125	34/33
QH200	200	63	160	45/44

角固式平口钳 QM16 Accu-lock Machine Vices



Performance and character 性能及特点

- It is made of ductile cast iron(HT200). 由延展性较强的铸铁制作而成（球墨铸铁 200）
- The accuracy of vice is parallelism at 0.025mm/100mm and squareness at 0.025. 两钳口的平行度是 0.025mm/100mm，两钳口对导轨面的垂直度是 0.025mm
- The vice can be used with single or settled side by side on the machine Worktable. 平口钳可单台使用，也可多台并排使用。
- It is widely used on machining center and other precision machine. 广泛用于加工中心等精密机床。

Model	Width of jaw	Height of jaw	Max.Opening	G.W./N.W.
QM16100	100	32	100	17/16
QM16125	125	40	125	21/20
QM16160	160	45	160	37/36
QM16200	200	50	190	51/50

刨床平口钳 QB Planning Machine Vices(QB=Q13)



Performance and character 性能及特点

- It is made of ductile cast iron(HT200). 由延展性较强的铸铁制作而成（球墨铸铁 200）
- The accuracy of vice is parallelism at 0.025mm/100mm and squareness at 0.025. 两钳口的平行度是 0.025mm/100mm，两钳口对导轨面的垂直度是 0.025mm
- The vice can be used with single or settled side by side on the machine Worktable. 平口钳可单台使用，也可多台并排使用。
- It is widely used on machining center and other precision machine. 广泛用于加工中心等精密机床。

Model	Width of jaw	Height of jaw	Max.Opening	G.W./N.W.
QB135	136	36	170	17/16
QB160	160	51	180	27/26
QB200	200	64	280	38/37
QB250	250	64	280	57/55
QB320	320	81	360	86/84

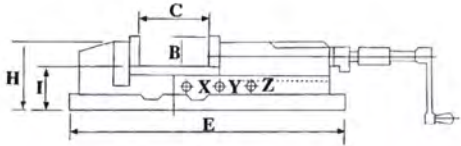
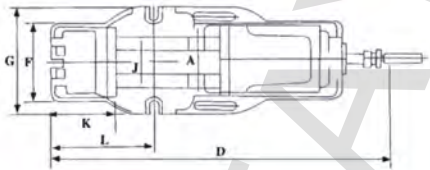
角固式精密平口钳 QB Planning Machine Vices(QB=Q13)



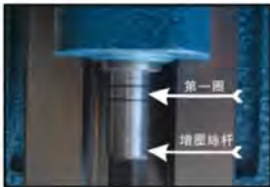
Erformance and character 性能及特点

- 由延展性较强的铸铁制作而成（球墨铸铁 200）
- It is made of ductile cast iron(HT200).
- 两钳口的平行度是 0.025mm/100mm，两钳口对导轨面的垂直度是 0.025mm。 The accuracy of vice is parallelism at 0.025mm/100mm and squareness at 0.025.
- 平口钳可单台使用，也可多台并排使用。 The vice can be used with single or settled side by side on the machine Worktable.
- 广泛用于加工中心等精密机床。 It is widely used on machining center and other precision machine.

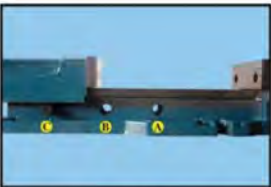
Model	Width of jaw	Height of jaw	Max.Opening	G.W./N.W.
QM16100N	100	32	100	13/12
QM16160N	160	45	160	29/28



Model	A	B	C	D	E	F	G	H	I	J	K	L	Weight	Power	装箱尺寸
HP-5	125	46	220	670	540	165	185	118	72	97	117	185	33KG	3500	655x190x225
HP-6	150	51	300	800	620	200	240	133	82	116	125	247	50KG	4500	760x190x215
HP-8	200	62	300	900	700	240	280	162	100	160	165	266	70KG	6500	820x230x220



为了虎钳使用寿命增长，请将增压丝杠进到第一圈或适当增压
In order to increase the service life of the vise, please advance the pressurized screw to the first lap or properly pressurize



记住ABC三个小孔，每次开口增加100mm，要对准里面牙座不然会被卡住
Remember the three small holes ABC, open each time Increase by 100mm, aim at the inner tooth seat Otherwise you will get stuck



不易被钳住比如薄宝心管容易扁，增压丝杠进到第一圈或适当增压
It is not easy to be clamped, such as the thin heart tube easily Flat, pressurized screw into the first circle or suitable When pressurized



不易被钳住比如铝片容易扁要钳住的面积要多一点，下面要有支撑
It is not easy to be clamped. For example, the aluminum sheet is easy to flatten. The area to be clamped should be a little more. Supported

用途：内藏式油压虎钳适用一般铣床，CNC立式综合加工中心，最大开口可夹300mm。
Purpose: Built-in hydraulic vise is suitable for general milling machine, CNC vertical integrated machining center, maximum opening can clamp 300mm
特点：只要用手一拍，在转两圈就有上吨夹持力。
Features: As long as you shoot with your hand, you will have a ton of clamping force after two turns.



参数名称 parameter name	参数 parameter
型号Model:	AC-500铣床走刀器
主电机功率main motor power:	90W
速度范围Speed range:	0-190
最高速度Maximum speed:	190RPM
最大扭矩Maximum torque:	380磅
电源要求Power requirements:	AC11V
适用型号Applicable Model:	立式塔铣床
项目包括Project includes:	X轴Y轴Z轴 AL-500主机 包括安装配件

全自动磨刀机 Automatic Sharpener



附件清单 Annex list

 CBN或SDC 砂轮一片	 精密的配套 夹具一套	 电源控制 装置一个
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83 重型活动带砧式台钳
83 Type Heavy Duty Bench Vices With Anvil Swivel Base



Model	Size	Width of jaw	QTY/Case	G.W./N.W.
8303	3"	75	4	28/26
8304	4"	100	2	23/22
8305	5"	125	1	20/19
8306	6"	150	1	30/29
8308	8"	200	1	44/42
8310	10"	250	1	70/62
8312	12"	300	1	75/69

83 重型固定带砧式台钳
83 Type Heavy Duty Bench Vices With Anvil Stationary Base



Model	Size	Width of jaw	QTY/Case	G.W./N.W.
8323	3"	75	4	22/20
8324	4"	100	2	22/20
8325	5"	125	1	18/17
8326	6"	150	1	28/26
8328	8"	200	1	42/40

83 重型活动无砧式台钳
83 Type Heavy Duty Bench Vices Without Anvil Swivel Base



Model	Size	Width of jaw	QTY/Case	G.W./N.W.
8353	3"	75	4	24/22
8354	4"	100	2	22/20
8355	5"	125	1	18/17
8356	6"	150	1	28/26
8358	8"	200	1	42/40

83 重型固定无砧式台钳
83 Type Heavy Duty Bench Vices Without Anvil Stationary Base



Model	Size	Width of jaw	QTY/Case	G.W./N.W.
8363	3"	75	4	24/22
8364	4"	100	2	22/20
8365	5"	125	1	18/17
8366	6"	150	1	28/26
8368	8"	200	1	42/40

89 轻型活动带砧式台钳
89 Type Light Duty Bench Vices With Anvil Swiveak Base



Model	Size	Width of jaw	QTY/Case	G.W./N.W.
8903	3"	75	4	20/18
8904	4"	100	4	30/28
8905	5"	125	2	28/26
8906	6"	150	1	21/20
8908	8"	200	1	31/30
8910	10"	250	1	46/44

89 轻型固定带砧式台钳
89 Type Light Duty Bench Vices With Anvil Stationary Base



Model	Size	Width of jaw	QTY/Case	G.W./N.W.
8924	4"	100	4	30/28
8925	5"	125	2	28/26
8926	6"	150	1	21/20
8928	8"	200	1	31/30

89 轻型活动无砧式台钳
89 Type Light Duty Bench Vices With Anvil Stationary Base



Model	Size	Width of jaw	QTY/Case	G.W./N.W.
8954	4"	100	4	30/28
8955	5"	125	2	28/26
8956	6"	150	1	21/20
8958	8"	200	1	31/30

89 轻型固定无砧式台钳
89 Type Light Duty Bench Vices Without Anvil Stationary Base



Model	Size	Width of jaw	QTY/Case	G.W./N.W.
8964	4"	100	4	22/20
8965	5"	125	2	22/20
8966	6"	150	1	18/17
8968	8"	200	1	26/25

96 超轻型活动带砧式台钳
96 Type Super Light Duty Bench Vices With Anvil Swivel Base



Table with 5 columns: Model, Size, Width of jaw, QTY/Case, G.W./N.W. containing specifications for models 9604, 9605, 9606, and 9608.

96 超轻型固定带砧式台钳
96 Type Super Light Duty Bench Vices With Anvil Stationary Base



Table with 5 columns: Model, Size, Width of jaw, QTY/Case, G.W./N.W. containing specifications for models 9624, 9625, 9626, and 9628.

93 美式活动带砧台钳
93 American Type Bench Vices With Anvil Swivel Base



Table with 5 columns: Model, Size, Width of jaw, QTY/Case, G.W./N.W. containing specifications for models 9303 and 9304.

95 美式活动带砧台钳
95 American Type Bench Vices With Anvil Swivel Base



Table with 6 columns: Model, Size, Width of jaw, Max. Opening, QTY/Case, G.W./N.W. containing specifications for models 9504, 9505, and 9506.

Q19 德式钻床平口钳
Q19 German Type Drilling Machine Vices



Table with 4 columns: Model, Width of jaw, Max. Opening, G.W./N.W. containing specifications for models Q1975, Q19100, Q19125, Q19150, and Q19200.

Q19 丝杠缩入式平口钳
Q19E Gulid-Screw Leading-in Drilling Vices



Table with 4 columns: Model, Width of jaw, Max. Opening, G.W./N.W. containing specifications for models Q1985E, Q19100E, Q19120E, and Q19150E.

Q19A 美式钻床平口钳
Q19A American Type Drilling Machine Vices



Table with 4 columns: Model, Width of jaw, Max. Opening, G.W./N.W. containing specifications for models Q192-1/2A, Q193A, Q194A, Q195A, and Q196A.

SY 手板压力机
SY Arbor Presses



Table with 5 columns: Model, Width of jaw, KN, Opening, G.W./N.W. containing specifications for models 0.5t, 1t, 2t, 3t, and 5t.

PB150 型平行块 PB150 Parallel Block



1. 硬度: HRC55 ~ 62

2. 精度: 0.01mm

3. 平行度: 0.005mm
- 1.Hardeness: HRC55 ~ 62

2.Accuracy: 0.01mm

3.Parallelism: 0.005mm

Model	规格 L×W×H	件数 Pcs
PB150-1	150×10×14 (16,18,20,22,24,26,28,30,32,35,40,45,50)	14×2
PB150-2	150×8×14 (16,18,20,22,24,26,28,30,32,35,40,45,50)	14×2
PB150-3	80×4×14 (16,18,20,22,24,26,28,30,32,35,40,45,50)	14×2
PB150-4	200×10×14 (16,18,20,22,24,26,28,30,32,35,40,45,50)	14×2

PB151 型平行块 PB151 Parallel Block



1. 硬度: HRC55 ~ 62

2. 精度: 0.01mm

3. 平行度: 0.005mm
- 1.Hardeness: HRC55 ~ 62

2.Accuracy: 0.01mm

3.Parallelism: 0.005mm

Model	规格 L×W×H	件数 Pcs
PB151-1	100×4×10(14,18,22,26,30,34,38,42)	9×2
PB151-2	160×4×10(14,18,22,26,30,34,38,42)	9×2
PB151-3	150×8.5×14(16,20,24,30,32,40,44)	9×2
PB151-4	150×10×14(16,2s0,24,30,32,36,40,44)	9×2

PB153 型平行块 PB153 Parallel Block



1. 硬度: HRC55 ~ 62

2. 精度: 0.01mm

3. 平行度: 0.005mm
- 1.Hardeness: HRC55 ~ 62

2.Accuracy: 0.01mm

3.Parallelism: 0.005mm

Model	规格 LxW×H	件数 Pcs
PB153-1	125×8×11(16,21,26,31,36)	24×2
	125×10×13(18,23,28,33,38)	
	125×12×15(20,25,30,35,40)	
	125×14×17(22,27,32,37,42)	
PB153-2	150×8×11(16,21,26,31,36)	24×2
	150×10×13(18,23,28,33,38)	
	150×12×15(20,25,30,35,40)	
	150×14×17(22,27,32,37,42)	

PB154 型平行块 PB154 Parallel Block



1. 硬度: HRC55 ~ 62

2. 精度: 0.01mm

3. 平行度: 0.005mm
- 1.Hardeness: HRC55 ~ 62

2.Accuracy: 0.01mm

3.Parallelism: 0.005mm

Model	规格 L×W×H	件数 Pcs
PB154-1	150×8×16 (18,20,22,24,26,28,30,32,34,36,38,40,42,44,46,48,50)	18×2
PB154-2	150×8×17 (19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51)	18×2

PB155 型平行块 PB155 Parallel Block



1. 硬度: HRC55 ~ 62

2. 精度: 0.01mm

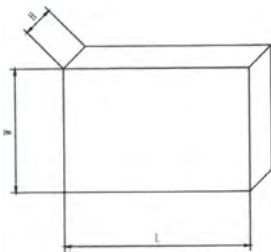
3. 平行度: 0.005mm
- 1.Hardeness: HRC55 ~ 62

2.Accuracy: 0.01mm

3.Parallelism: 0.005mm

Model	规格 LxWxH	件数 Pcs
PB155-1	120×10×14(16,18,20,22,24,26,28,32,35,40)	12×2
PB155-2	150×10×14(16,18,20,22,24,26,28,30,32,35,40)	12×2

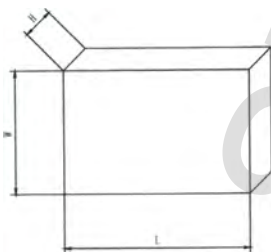
1×2×3"BLOCKS



Precision Ground Hardened
Five3/8"-16tapped holes are
provided operation.
Hardness: HRC55-62.

Model	规格 Size(H×W×L)	垂直度 Squareness	尺寸公差 Tolerance of size	孔 Hole
ZT01-01	1×2×3"	0.0003"/1"	±0.0002"	23 孔
ZT01-02		0.0001"/1"	+0.0003"	

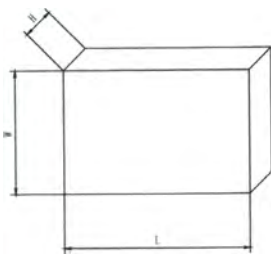
1×2×3"BLOCKS



Precision Ground Hardened
Hardness: HRC55-62.

Model	规格 Size (H×W×L)	垂直度 Squareness	尺寸公差 Tolerance of size	孔 Hole
ZT01-03	1×2×3"	0.0003"/1"	±0.0002"	无孔
ZT01-04				1 孔
ZT01-05		0.0001"/1"	+0.0003"	无孔
ZT01-06				1 孔

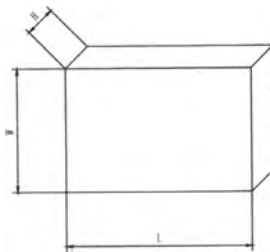
1×2×3"BLOCKS



Precision Ground Hardened
Five5/16"-18 tapped holes are
provided for clamping operation.
Hardness: HRC55-62.

Model No	规格 Size (H×W×L)	垂直度 Squareness	尺寸公差 Tolerance of size	孔 Hole
ZT01-07	1×2×3"	0.0003"/1"	±0.0002"	11 孔
ZT01-08		0.0001"/1"	+0.0003"	

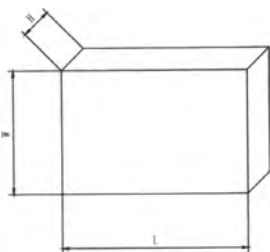
2×3×4"BLOCKS



Precision Ground Hardened
Hardness: HRC55-62.

Model No	规格 Size (H×W×L)	垂直度 Squareness	尺寸公差 Tolerance of size	孔 Hole
ZT01-09	2×3×4"	0.0003"/1"	±0.0003"	23 孔
ZT01-10				

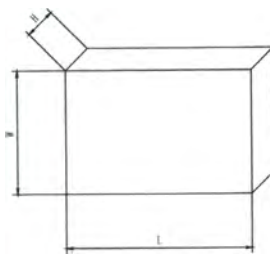
2×4×6"BLOCKS



Precision Ground Hardened
Hardness: HRC55-62.

Model No	规格 Size (H×W×L)	垂直度 Squareness	尺寸公差 Tolerance of size	孔 Hole
ZT01-11	2×4×6"	0.0003"/1"	±0.0005"	23 孔

4×6×8"BLOCKS



Precision Ground Hardened
Hardness: HRC55-62.

Model No	规格 Size (H×W×L)	垂直度 Squareness	尺寸公差 Tolerance of size	孔 Hole
ZT01-12	4×6×8"		±0.0005"	23 孔



Model No	规格 Size (H×W×L)	平行度允差 Parallel range	尺寸公差 Tolerance of size	孔 Hole
ZT01-13	25×50×75mm	0.005mm	±0.005mm	23 孔
ZT01-14	25×50×75mm		±0.005mm	23 孔, M10
ZT01-15	25×50×100mm		±0.005mm	23 孔
ZT01-16	50×100×150mm		±0.0125mm	23 孔

圆形永磁细目吸盘
Circular Permanent Magnetic Chuck Breakdown



○用途特点适用范围：圆形密极永磁吸盘适用于平面磨床，火花机，雕刻机，线切割机床，研磨机，钳工划线加工，吸盘磁极间隔细密，磁力分布均匀，加工薄小工件时，效果尤为明显。充、退磁时工作台面精度无变化，吸盘经特殊处理，无渗透，可防止切削液腐蚀，适合长时间放在切削液中工作

○Features and use scope: Circular dense pole permanent magnetic chuck is on surface grinder, sparks machine, engraving machine, wire cutting machine, grinding machine, bench marking processing, magnetic sucker interval flne, uniform distribution of magnetic force, processing thin workpieces, the effect is obvious. Charging and demagnetizing accuracy of worktable no change, sucker by special treatment, no penetration, can prevent cutting fluid corrosion, suitable for long time work in cutting fluid.

Model	Model	外形尺寸 (mm)		极 距 (mm) Pole distance	吸力 (N/cm2)
		直径 φ	高 High		
4"	Xm51 100	100	55	2(0.5+1.5)	≥ 80
5"	Xm51 125	125	55	2(0.5+1.5)	≥ 80
6"	XM51 150	150	55	2(0.5+1.5)	≥ 80
8"	XM51 200	200	55	2(0.5+1.5)	≥ 80
10"	XM51 250	250	60	2(0.5+1.5)	≥ 100
12"	XM51 300	300	60	2(0.5+1.5)	≥ 100
14"	XM51 350	350	60	2(0.5+1.5)	≥ 100
16"	XM51 400	400	60	2(0.5+1.5)	≥ 100

XM91 矩形永磁吸盘
XM91 Rectangular Permanent Magnetic Chuck



○用途特点适用范围：细目永磁吸盘主要在各种平面磨床，雕刻机，线切割，电火花机床上作为工件定位加工之用。它具有精度高，吸力大而均匀，使用安全等特点，是一种实现工件定位加工的磁力工具。充退磁时工作台面精密度无变化，吸盘经特殊处理，无渗透，可防止切削液腐蚀，适合长时间放在切削液中工作。永磁吸盘 .XM91 细目永磁吸盘结构紧凑，价格低廉，是广泛应用在机械加工行业的配件。

○Scope of use: the breakdown of permanent magnetic chuck mainly in a variety of surface grinding machine, engraving machine, wire cutting, EDM as positioning the workpiece machining. It has the characteristics of high precision, large suction and even, safe and so on, it is a kind of magnetic tool to realize the positioning of the workpiece. Charging and demagnetizing working mesa precision without change, sucker by special treatment, no penetration, can prevent cutting fluid corrosion, suitable for long time work in cutting fluid. Permanent magnetic chuck.XM91 breakdown of permanent magnet sucker has the advantages of compact structure, low price, is widely used in mechanical parts processing industry.

Model	Model	外形尺寸 (mm)			极 距 (mm) pole distance	吸力 (N/cm2)
		长 Long	宽 Width	高 High		
4"×7"	Xm91 100×175	175	100	45	2(0.5+1.5)	≥ 100
5"×10"	XM91 125×250	250	125	45	2(0.5+1.5)	≥ 100
6"×6"	XM91 150×150	150	150	45	2(0.5+1.5)	≥ 100
6"×12"	XM91 150×300	300	150	45	2(0.5+1.5)	≥ 100
6"×14"	XM91 150×350	350	150	45	2(0.5+1.5)	≥ 100
6"×16"	XM91 150×400	400	150	45	2(0.5+1.5)	≥ 100
6"×18"	XM91 150×450	450	150	45	2(0.5+1.5)	≥ 100
8"×16"	XM91 200×400	400	200	45	2(0.5+1.5)	≥ 100
8"×18"	XM91 200×450	450	200	45	2(0.5+1.5)	≥ 100
8"×20"	XM91 200×500	500	200	45	2(0.5+1.5)	≥ 100
8"×22"	XM91 200×560	560	200	50	2(0.5+1.5)	≥ 100
10"×20"	XM91 250×500	500	250	50	2(0.5+1.5)	≥ 100
12"×20"	XM91 300×500	500	300	50	2(0.5+1.5)	≥ 100
12"×24"	XM91 300×600	600	300	50	2(0.5+1.5)	≥ 100



- ×3 型为便携式磨刀机，无需技术即可研磨 2 刃、3 刃、4 刃铣刀，可用钨棒直接开出端面刃口。选配夹具组可研磨 5 刃端铣刀。
- 通过调节升降按钮，可以控制铣刀排屑槽的宽度与深度，更好的应对不同材质的加工需求。
- 独有结构，可修磨出铣刀轴向楔角，增加端面切削刃的锋利程度，减小切削阻力。
- Model x3 is a portable knife sharpener that can grind 2-blade,3-blade and 4-blade milling cutters without technology.Optional fixture group can grind 5-blade end mill.
- By adjusting the lifting button wheel, the width and depth of the cflute can be controlled to better meet the processing needs of different materials.
- The unique structure can grind the axial wedge angle of the milling cutter, increase the sharpness of the cutting edge of the end face, and reduce the cutting resistance.

相同功能，多种规格 Same function,multiple specifications



OL-X3A



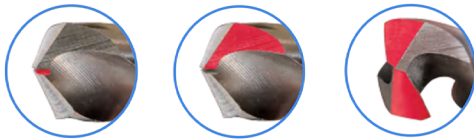
OL-X5



OL-X11

Model	X3	X3A	X5	X11
研磨范围 Grinding range	φ4-φ14	φ4-φ20	φ12-φ30	φ6-φ30
电源 Power	AC,220V±10%	AC,220V±10%	AC,220V±10%	AC,220V±10%
电机参数 Motor	180W/4800RPM	220W/4800RPM	250W/4400RPM	250W/4400RPM
包装尺寸 Dimension	35x23x24CM	35x23x24CM	40x28x31CM	50x29x30
重量 Weight	15KG	16KG	28KG	33KG

- 注：标配筒夹 X3 型 6 个；X3A 型 9 个；X5 型 10 个；X11 型 13 个。4mm 以下不易定位。
- Note: Standard collet X3 Type: 6 pieces; X3A type: 9 pieces;X5 type: 10 pieces ; X11 type:13 pieces. It is not easy to align below 4MM



- 本机为便携式，配备台湾制造之钻石砂轮，精确耐用。
- 能刀磨钻头先端角（顶角），前切削刃（正前角），排屑槽（后角），中心横刃大小随意调整，可替代中心钻定位更精确。
- Z32 型为复合型钻头研磨机（左右双头研磨工作）。
- This machine is portable, accurate and durable, equipped with diamond grinding wheel made inTaiwan.
- It can sharpen the tip angle (apex angle), front cutting edge (positive rake angle), chip flute (rear angle), and the size of thecenter transverse blade can be adjusted at will.easier.
- Z32 is a compound drill grinding machine (left and right double-head grinding work).

Model	Z13/Z13D	Z20	Z26	Z32
研磨范围 Grinding range	φ3-φ13(φ14)	φ3-φ20	φ13-φ26(φ32)	φ3-φ32
先端角 Point angle	90° -140°	95° -140°	95° -140°	95° -140° /95° -140°
电源 Power	AC,220V±10%	AC,220V±10%	AC,220V±10%	AC,220V±10%
电机参数 Motor	120W/4800RPM	180W/4800RPM	250W/4400RPM	250W/4400RPM
包装尺寸 Dimension	36x21x19cm	43x22x21cm	43x23x21cm	42x27x34cm
重量 Weight	9KG	14KG	25KG	29KG

- 注：标配筒夹 Z13/D 型 11 个；Z20 型 18 个；Z26 型 13 个；Z32 型 30 个。3mm 以下不易定位。
- Note: Standard collet Z13 / D type: 11 pieces;Z20 type: 18 pieces;Z26 type: 13 pieces; z32 type: 30 pieces.It is not easy to align below 3MM.

OL-U2 万能磨刀机 Universal Cutter Grinder



- 万能磨刀机是电脑雕刻刀和刻磨铣床必备设备。
- U3 万能磨刀机并有刃磨钻头、车刀、球头立铣刀的功能和装置，夹持最大直径可达中 16。
- Universal knife sharpener is a necessary equipment for computerengraving knife and engraving milling machine.
- u3 universal knife sharpener also has the functions and devicesfor sharpening drills, turning tools, and ball end mills.The maximum clamping diameter can reach 16.

Model	U2
夹头直径 Collet diamenter	φ 3 - φ 1 6
马达 Motor	220V/380V 1/3Hp 50Hz
转速 Power	5300RPM
砂轮 Grinding wheel	φ100x50xφ20
外形尺寸 Dimension	550x450x470mm
重量 Weight	46KGs/48KGs

- 注：出厂配备夹头 6mm(或 1/4") 一种
- Note: The factory is equipped with 6mm collet (or 1/4") a kind

黄色 / 绿色 两种颜色可选可定制其他颜色 Yellow/green two colors available Other colors can be customized



- 万能磨刀机是 CNC 等加工设备的配套设备
- 可用于刃磨尖刀，雕刻刀、铣刀、钻头、车刀等多种刀具
- 搭配 5C 刀头可夹持直径 3-28mm 的工件，使用方便灵活
- Universal cutter grinder is a supporting equipment for cnc and other processing equipment.
- It can be used for sharpening sharp knives, engraving knives, straight shank milling knives, drills, turning knives and other tools
- With the 5C cutter head, It can hold workpieces with a diameter of 3-28mm, which is convenient and flexible to use .

Model	OL-U2
Max.clamping diameter 弹簧夹头夹持直径范围	φ3-φ16mm
Spindle Speed 主轴转速	3600RPM
Longitudinal travel of tool holder 刀架横向移动行程	140mm
Longitudinal travel adjustment of tool holder 刀架纵向微调行程	18mm
Longitudinal travel of spindle and grinding wheel 主轴砂轮移动行程	8mm
Taper angle range 磨削锥角范围	0° -180°
Negative taper angle range 磨削负锥角范围	0° -10°
Relief angle range 磨削后角范围	0° -25°
Voltage/Power 电压 / 功率	220/380V 50/60Hz/0.37Kw
Motor speed 电动机转速	2810mm/min
Wheel size 砂轮尺	φ100*{50/35}*20mm
Gross weight 毛重	52Kg
Packing dimensions L×W×H(mm) 包装箱尺寸	555x450x430mm

- 注：标配筒夹 X3 型 6 个；X3A 型 9 个；X5 型 10 个；X11 型 13 个。4mm 以下不易定位。
- Note: Standard collet X3 Type: 6 pieces; X3A type; 9 pieces;X5 type; 10 pieces ; X11 type:13 pieces. It is not easy to align below 4MM



产品性能 Product Performance
永磁起重器采用高性能磁性材料制作，体积更小，自重更轻，吸力更大。独特磁路设计，剩磁几乎为零，安全系数高，最大拉胶力，是额定起重的3.5倍。手柄工关附有安全钮，可单手操作，安全方便。起重器底面有“V”型槽，可起吊相对应的圆钢、钢板。不用电，磁力恒久不衰。可在野外操作，广泛应用于钢材的起吊搬运，平整机械零件以及各种磨具的安装搬运。
Permanent magnetic lifters use new type and high-performance magnetic material .It is characte -rizedby its smaller and lighter weight .Powerful lifting effort and few of residual magnetism.Easy and safe operate,Without electricity in operation,Long period effort ,They have been used widely to lift and transport the steel and iron.

Model	Capacity	Max Force KGS	Dimensions			Weight
			Length	Width	Height	
YQ100	100	300	150	80	160	7
YQ200	200	600	190	110	220	15
YQ300	300	900	230	120	210	22
YQ600	600	1800	290	145	250	42
YQ1000	1000	3000	410	150	310	76
YQ2000	2000	6000	460	180	350	118
YQ3000	3000	9000	480	210	380	140

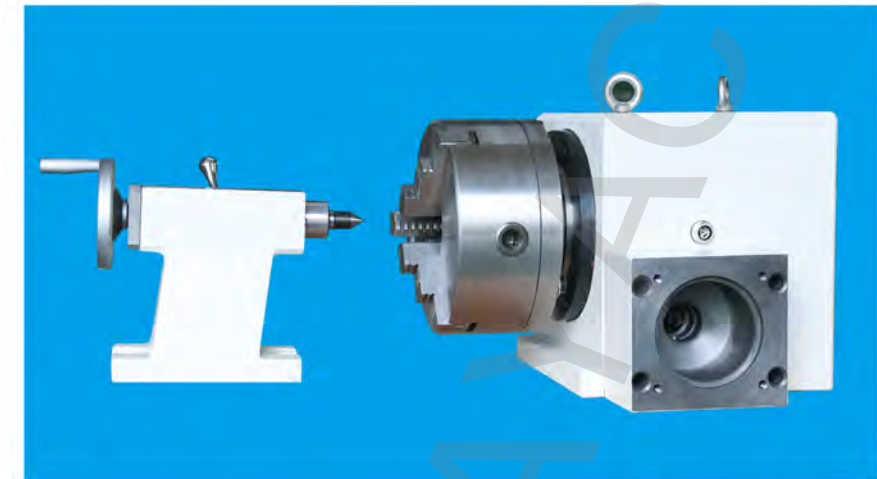
圆形电磁起重器 Electro Magnetic Lifter



产品性能 Product Performance
电磁起重器适用于搬运铁锭，钢球、钢卷及各种废铁，起重能力强，可遥控操作，使用安全方便。增加工作效率，降低劳动强度。广泛应用于工厂、货场对钢铁重物做吸持起吊搬运之用。
Electro Magnetic Lifter used for handling ingots, steel balls, coils and all kinds of scrap iron, strong lifting, remote control operation, use safe and convenient. Increase work efficiency, reduce labor intensity. Widely used in factories, freight yard to do heavy lifting exercise .

Model	Dimensions		Power	Weight
	Diameter	height		
MI W5-70L	700	320	3.3	490
MI W5-80L	800	320	3.96	620
MI W5-90L	900	320	5.9	800
MI W5-110L	1100	320	7.7	1350
MI W5-120L	1200	320	9.02	1800
MI W5-130L	1300	320	12	2010
MI W5-135L	1350	320	13.2	2580
MI W5-150L	1500	320	15.6	2830
MI W5-165L	1650	320	16.5	3450
MI W5-180L	1800	320	22.5	4230
MI W5-185L	1850	320	23.8	4550
MI W5-210L	2100	320	28.4	7000
MI W5-240L	2400	320	33.9	9000

- 所有系列产品型号均可以根据用户要求进行定做，敬请咨询。
- All series products models can be customized according to user requirements, please advice.
- 本公司不断进行研发改进，对于外观、型号、结构的变更，本公司保有最终解释权。(以上仅供参考)
- Our company intend to continous developing improved .As to the change in the appearance ,model,structure.Our company has right to keep the interpretation.(The above is for reference only)



◆ FK15 系列数控分度头是数控铣床，加工中心等机床的主要附件之一，亦可作为半自动铣床、镗床或其它类机床的主要附件。

◆ 该分度头与相应的 CNC 控制装置或机床本身特有的控制系列连接，并与 4-6Pa 压缩空气接通，可自动完成对被加工件的夹紧，松开和任意角度的圆周分度工作，可立卧两用。当上述机床采用该分度头后，可大大提高劳动生产力和保证工件的加工质量。

Model FK15 series NC dividing head is one of the main accessories for the NC machine and machine center , it can also be used as one of the main accessories of semiauto milling machine , boring machine or other machine tool . Connected with the CNC control device or the control system of the machini and the 4-6 bar pressure air,the NC dividing head can carry out the performance of clamping , unclamping and circular indexing at arbitrary angle for the work-piece. this product can be used vertically and horizontally.

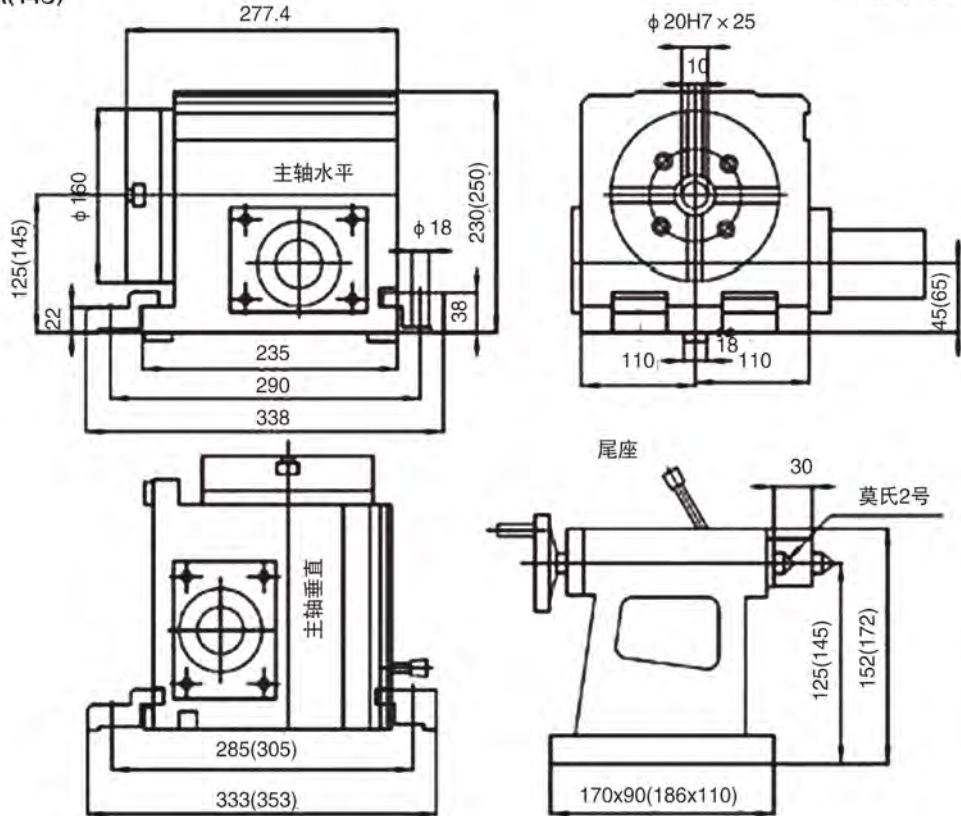
规格参数：MAIN SPECIFICATIONS

No.	项目ITEMS	FK15110A	FK15125A	FK15145
1	中心高center height (mm)	110	125	145
2	圆工作台面直径 diameter of the table surface (mm)	φ125	φ160	φ160
3	圆工作台T型槽宽度 T-slot width on table surface (mm)	10H12	10H10	10H10
4	蜗杆副传动轴 Worm gear radio	1:90	1:90	1:90
5	圆工作台定位孔直径 diameter of center bushing (mm)	φ16H7	φ20H7	φ20H7
6	分度头找正定位孔直径 diameter of indexer tram bushing (mm)	/	/	/
7	定位键宽度 Width of locating key (mm)	14	18	18
8	主轴端部连接尺寸 Connecting dimensions of spindle nose (mm)	φ52H6	A ₁ 6	A ₁ 6
9	主轴孔可配弹簧夹头 Collet	/	/	/
10	可配电机 Motor (N.m)	≥2.94	≥2.94	≥2.94
11	气配压力 Air pressure (Pa)	4-6x10 ⁵ Pa	4-6x10 ⁵ Pa	4-6x10 ⁵ Pa
12	重复精度 Repeatability	7.5°	7.5°	7.5°
13	分度精度 Dividing accuracy	60°	60°	60°
14	切向最大力矩 Max.tangent torque (N.m)	90	120	120
15	分度头最高转速 Max.tangent torque (N.m)	11.1	11.1	11.1
16	净重Net Weight (kg)	50	80	90
17	毛重 Gross Weiht (kg)	58	88	100
18	承载能力 Load capacity kg	水平 Horizontal	100	150
		垂直 Vertical	50	80

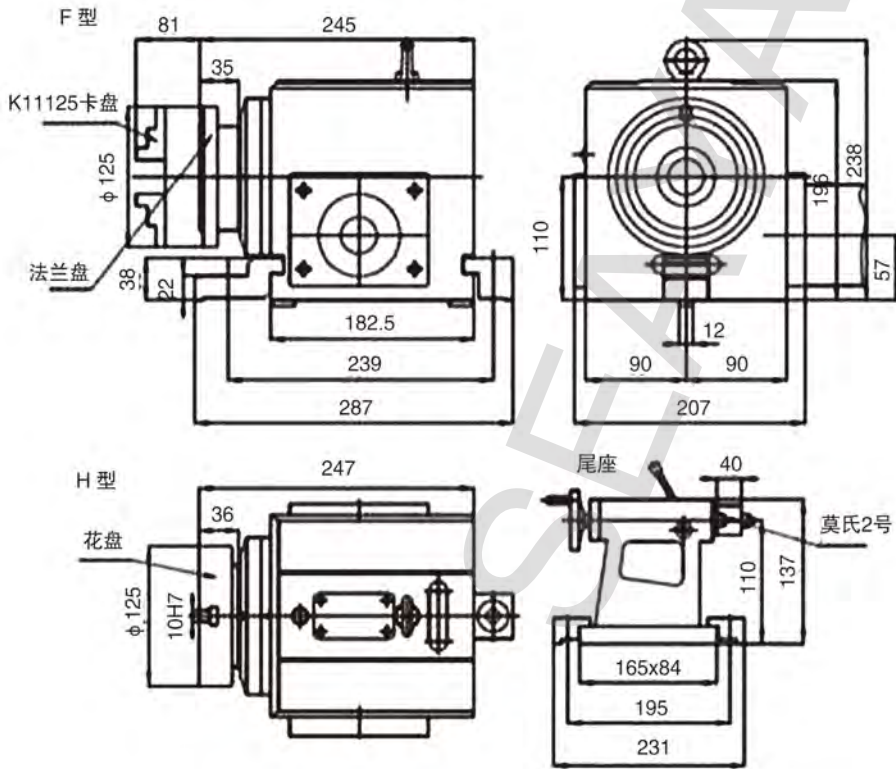
◆ 以上参数以实物为准，如有变动，最终解释权归本公司。

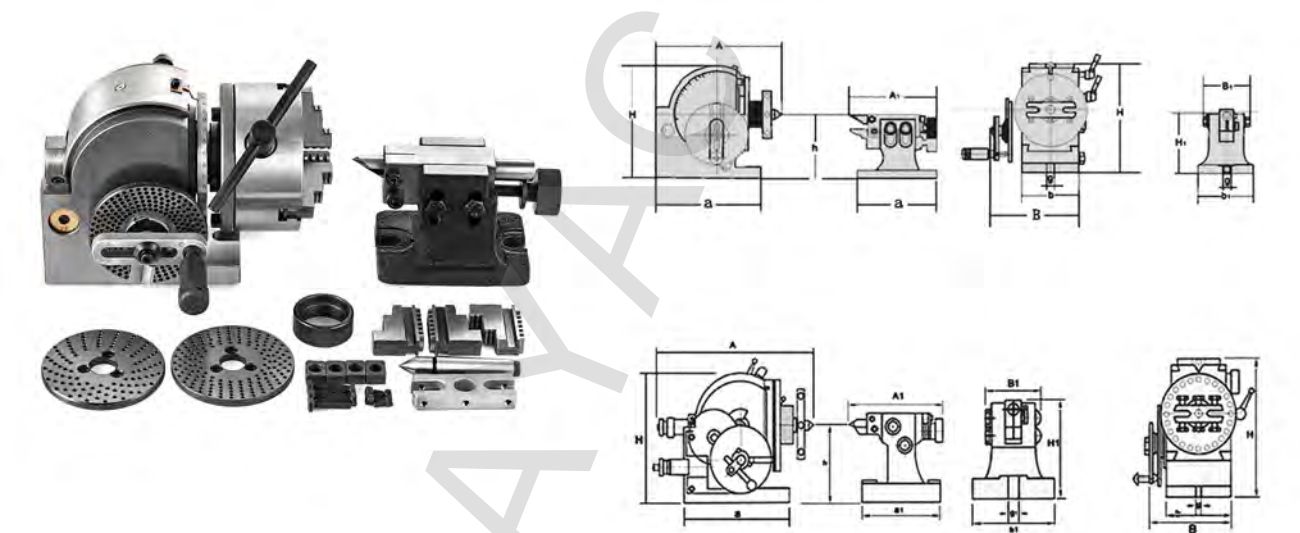
安装尺寸图 DIMENSIONAL SKETCH

FK15125A(145)



FK15110A





SEMI-UNIVERSAL INDEX CENTERS

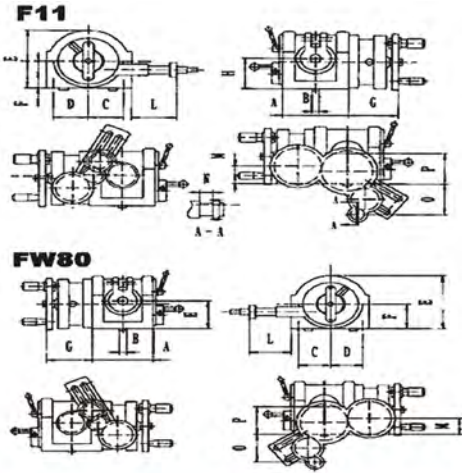
Model	A		B		H		h		Taper of Center	N.W.	Matched chucks
BS0	193	7.59	131	5.15	173	6.81	100	3.93	MT2	23	100mm
BS1	242	9.52	168	6.61	220	8.66	128	5.04	MT3	32	125mm
BS2	370	14.5	280	11.02	236	9.29	133	5.24	MT4	73	160mm;200mm

Model	A1		B1		H1		h		a1		b1		g1	
BS0	175	6.89	87	3.42	12	4.02	109	3.93	130	5.12	92	3.62	16	0.63
BS1	183	7.20	87	3.42	137	5.39	128	5.04	158	6.22	110	4.33	16	0.63
BS2	183	7.20	87	3.42	156	6.14	133	5.24	175	6.89	122	4.80	16	0.63

蜂巢板 QB Planning Machine Vices(QB=Q13)



Model	Dividing plates	Number of Holes		Used of Model
3PCS	A	15,16,17,18,19,20		● RT–HV4,HV8 ● RT–6
	B	21,23,27,29,21,23		
	C	37,39,41,43,47,49		
2PCS	A	A1	26,30,34,38,41,44,47,51,57	● RT–HV8,HV10, HV12,HV14,HV16
		A2	28,32,37,39,43,46,49,53,59	
	B	B1	61,67,71,77,81,87,91,97	● RT–8,10,12,14 CS–6” ,8”
		B2	63,69,73,79,83,89,93,99	

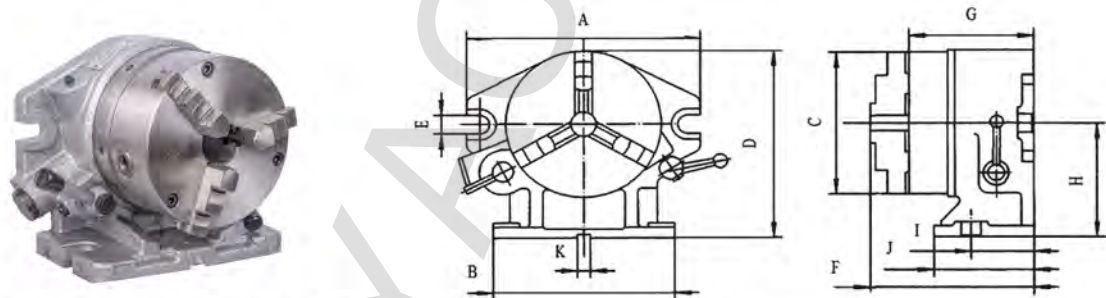


FW80、F11 Series Installation Sketch and Dimensions:

Model	A	B	C	D	E	F	G	H	L	M	N	O	P
FW80	139	14	77	73	147	77	98	80	106	43	30	60	80
F11100A	162	14	102	87	186	95	116	100	93	54.7	30	100	100
F11125A	209	18	116	98	224	117	120	125	103	68.5	34.5	100	125
F11160A	209	18	116	98	259	152	120	160	103	68.5	34.5	100	160

FW80、F11 Series Main Specifications:

Items		Specifications		FW80	F11100A	F11125A	F11160A
中心高 Center height mm				80	100	125	160
主轴由水平位置向上转动的角度 Swivel angle of spindle from it's horizontal position				≤90°	≤95°		
主轴由水平位置向下转动的角度 Horizontal position (downward)				≤6°	≤5°		
分度手轮每转，主轴回转角度 Rotating angle of spindle for one complete Revolution of dividing handle				9°(540 grad., 1' each)			
游标最小示值 Min .reading of Vernier				10"			
蜗杆副传动比 Worm gear ratio				1:40			
主轴孔锥度（莫式） Taper of spindle bore				MT3		MT4	
定位键宽度 Width of locating key. mm				14		18	
主轴法兰盘定位短锥直径 Diameter of short taper of Sindle-nose for mounting flange mm				Φ36.541	Φ41.275	Φ53.975	Φ53.975
分度盘孔数 Hole numbers on index plate	第一面 1st plate	24,25,28,30,34,37,38,39,41,42,43					
	第二面 2nd plate	46,47,49,51,53,54,57,58,59,62,66					
变换齿轮 Change Gear	模数 Module			1.5		2	
	齿数 Teeth Numbers			25,30,35,40,50,55,60,70,80,90,100			
最大承载 Max. bearing Kg				80	100	130	160
可配卡盘 Matched lathe chucks				100mm	125mm	160mm	200mm



Installation sketch and dimensions:

Model	A	B	C	D	E	F	G	H	I	J	K
F2-8	310	255	Φ210	255.25	18	214	171.5	149.25	80	150	16
F2-6	260	220	Φ167	220	18	197.5	155.5	130	70	130	16

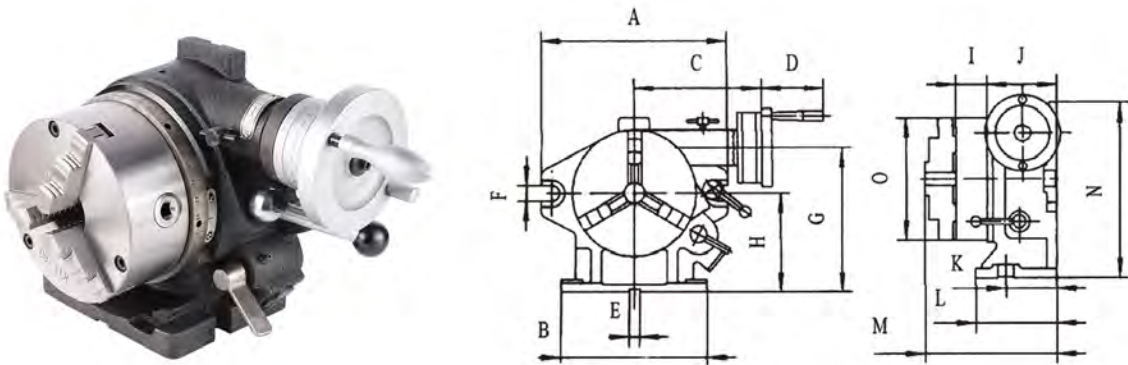
Main specifications

Items	Specifications	F2-8	F2-6
中心高 Center height mm		149.25	30
主轴定心直径 Center diameter of the spindle mm		Φ119.774	Φ80
可分等分数 Divisions		2、3、4、6、8、12、24	
主轴轴肩支撑面至底面高度（主轴直立时） Height between external centering diameter of the spindle to the base (in vertical position)mm		96	89.5
主轴轴肩直径 Locating diameter of the spindle mm		Φ212	Φ170
定位键宽度 Width of the locating key mm		16	
可配卡盘 Matched chuck		K31210A	K31167
24 等分单个分度误差 24 divisions individual error		25"	

用途说明Usage description:

F2、F2-6等分分度头是立卧式的，主轴可与机床工作台成水平与垂直两种情况下使用，用途广泛。可用于铣床、磨床、钻床及刨床上，可将工件分成2、3、4、6、8、12、24等分，也可利用主轴上的刻度环和游标进行任意分度。

The F2, F2-6 equal dividing heads are vertical and horizontal, and the main shaft can be used in both horizontal and vertical situations with the machine table, which has a wide range of uses. It can be used on milling machines, grinders, drilling machines and planers. The workpiece can be divided into 2, 3, 4, 6, 8, 12, and 24 equal parts. It can also be used on the spindle

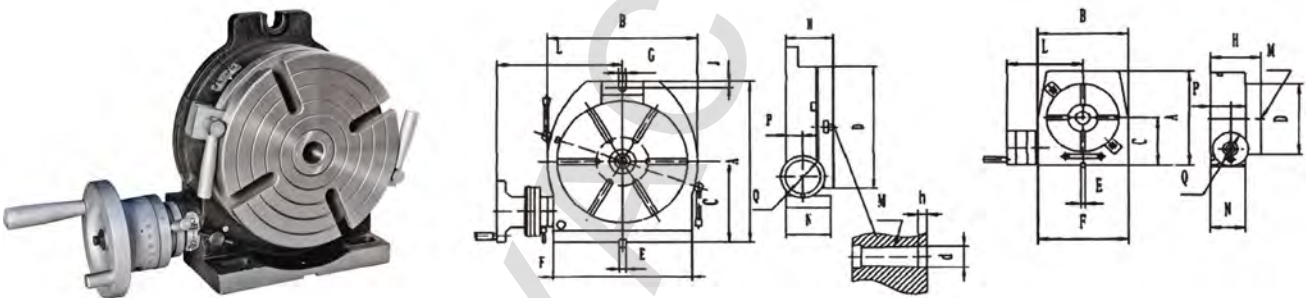


Installation Sketch and Dimensions:

Model	A	B	C	D	E	F	H	I	J	K	L	M	L	O
F3-8	310	255	200	78	16	18	150	75	126	90	155	244	285	Φ210
F3-6	250	220	188	78	16	18	130	66	112	80	150	220	235	Φ167

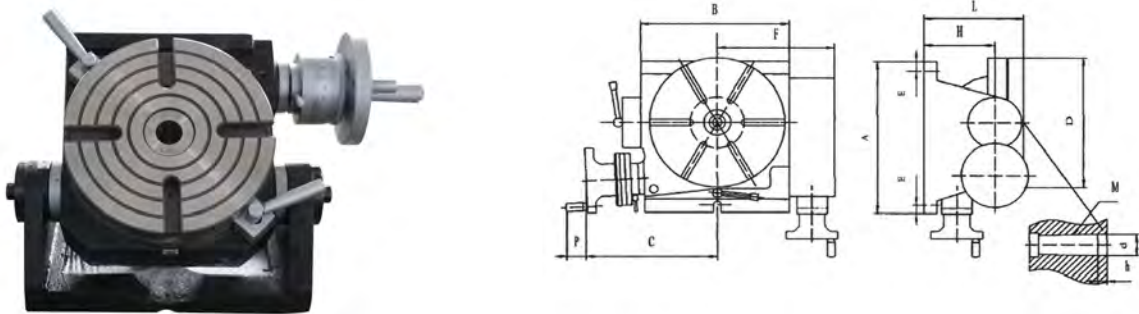
Main Specifications

Items	Specifications	F3-8	F3-6
中心高 Center height mm		150	130
主轴定心直径 Center diameter of the spindle mm		Φ119.774	Φ80
主轴轴肩直径 Diameter of spindle shoulder mm		Φ212	Φ170
可分等分数 Divisions		2、3、4、6、8、12、24	
主轴的圆周刻度 Graduated disc of spindle		360°	
蜗轮副模数 Modules of worm and worm gear		1.5	1.25
蜗轮副传动比 Transmission ratio of worm and worm gear		1:90	
蜗轮每转所代表的转台度数 Showed degree of worktable per revolution of worm		4°	
游标量小示值 Minimum value of Vernier		10"	
定位键宽度 Width of the locating key mm		16	
可配卡盘 Matched chuck		K31210A	K31167
24 等分单个分度误差 24 divisions individual error		25"	
蜗轮副等分度误差 Worm gear dividing error		±60"	
包装尺寸 Case dimensions mm		490×425×380	470×350×360



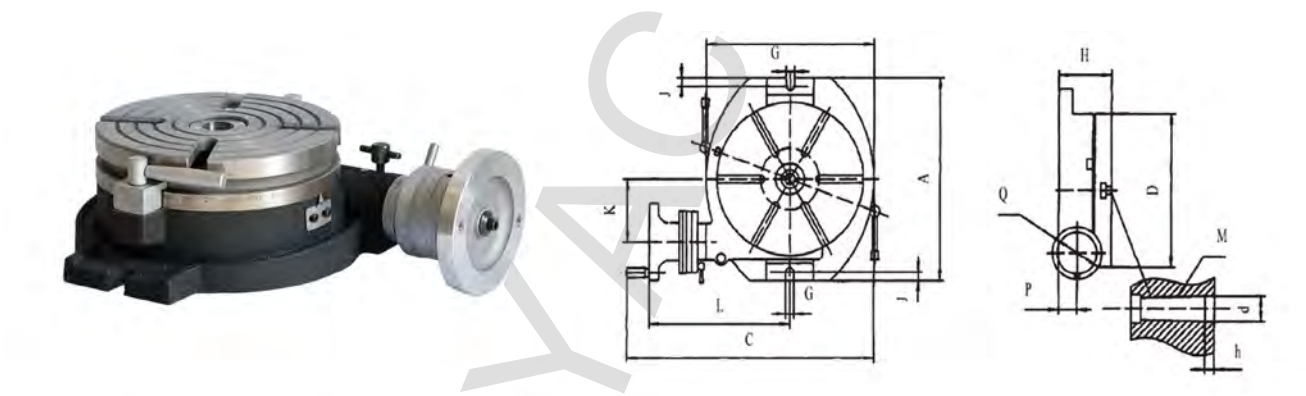
Main Specifications Material:HT250

Items	Specifications	HV-4"	HV-6"	HV-8"	HV-10"	HV-12"	HV-16"
工作台直径 Diameter of table mm		Φ100	Φ160	Φ200	Φ250	Φ320	Φ400
台面中心孔锥度（莫式） Morse taper of the center hole		2#		3#		4#	
台面定位孔直径 Diameter of the center hole mm		Φ20×8	Φ25×6	Φ30×6		Φ40×10	
工作台垂直时中心高 Height of center for Vert. mounting		70	125	150	170	210	260
台面 T 型槽宽度 Width of the T-slot mm		6	10	12		14	
台面 T 型槽相邻角度 Adjacent angle of table T-slot		90°			60°		
定位键宽度 Width of locating key mm		10	12	14		18	
蜗轮副模数 Module of the worm gear		1	1.5	1.75	2	2.5	3.5
蜗轮副转动比 Transmission ratio of the worm gear		1:72	1:90				
工作台圆周刻度 Graduation of the table		360°					
转台手轮刻度值 Readout of the handwheel		2′	1′				
游标量小示值 Minimum reading of the vernier		10″					
分度精度 Indexing accuracy		120″	80″	60″			
最大承载（卧式） Max.bearing(with table Hor.)kg		150	100	150	200	250	300
最大承载（立式） Max.bearing(with table Vert.)kg		75	50	75	100	125	175
毛重 Gross weight Kg		11.5	15	30	45	73	95



Main Specifications Material:HT250

Items	Specifications	TSK160	TSK200	TSK250	TSK320	TSK400
工作台直径 Diameter of table mm		Φ160	Φ200	Φ250	Φ320	Φ400
台面中心孔锥度（莫式） Morse taper of the center hole		2#	3#		4#	
台面定位孔直径 Diameter of the center hole mm		Φ25x6	Φ30×6		Φ40×10	
台面 T 型槽宽度 Width of the T-slot mm		10	12		14	
蜗轮副模数 Module of the worm gear		1.5	2		2.5	3.5
定位键宽度 Width of the locating key mm		12	14		18	
台面 T 型槽相邻角度 Adjacent angle of table T-slot		90°		60°		
蜗轮副转动比 Transmission ratio of the worm gear		1:90				
工作台圆周刻度 Graduation of the table		360°				
工作台可倾角度 Tilting angle		0°~90°				
转台手轮刻度值 Readout of the hand wheel		1'				
游标量小示值 Minimum reading of the vernier		10"				
可倾游标量最小示值 Minimum reading of the tilting vernier		2'				
分度精度 Indexing accuracy		8"	60"			
最大承载（卧式） Max. bearing(with table Hor.)kgs		100	150	200	250	300
最大承载（立式） Max. bearing(with table Vert.)kgs		50	75	100	125	150
毛重 Cross Weight kgs		44	67	93	150	305
可配卡盘 Matched Chuck		K11125	K11160	K11200	K11250	K11325



Main Specifications

Material:HT250

Specifications	TS160A	TS200A	TS250A	TS320A	TS400A	TS500A	TS630A	TS800A	TS1000A
Items									
工作台直径 Table diameter mm	Φ160	Φ200	Φ250	Φ320	Φ400	Φ500	Φ630	Φ800	Φ1000
台面中心孔锥度 Morse taper of the hole mm	2#	3#	4#	5#	6#				
台面 T 型槽宽度 Width of the T-slot mm	10	12	14	18	22				
台面 T 型槽相邻角度 Adjacent angle of table T-slot	90°	60°	60°	45°	45°				
蜗轮副转动比 Transmission ratio of the worm gear	1:90	1:90	1:90	1:120	1:120				
工作台圆周刻度 Graduation of the table	360°	360°	360°	360°	360°				
蜗轮每转所代表的转台度数 Rotating angle of table with one revolution of the worm	4°(1' per graduation)	4°(1' per graduation)	4°(1' per graduation)	3°(1' per graduation)	3°(1' per graduation)				
游标量小示值 Minimum value of vernier	10"	10"	10"	10"	10"				
分度精度 Indexing accuracy	80"	60"	60"	60"	60"				
工作台最大承载 Max.workload kgs	100	150	200	250	300	550	700	1250	2000
毛重 Gross Weight kg	21.5	31	44.5	76	145	238	377	855	1400
可配卡盘 Matched Chuck	K11125	K11160	K11200	K11250	K11325	K11400	K11500A	K11630A	K11630A

镀锌磁座 (银色)
Galvanized magnetic base (silver)



安装演示
Installation demonstration



塑料冷却水管配套内丝接头，外丝水管瞬间变内丝。解决了部分机床塑料冷却水管需要内螺纹的问题。
The plastic cooling water pipe is equipped with an inner thread connector, and the outer thread water pipe instantly becomes an inner thread. Solved the problem that some machine tool plastic cooling water pipes require internal threads.

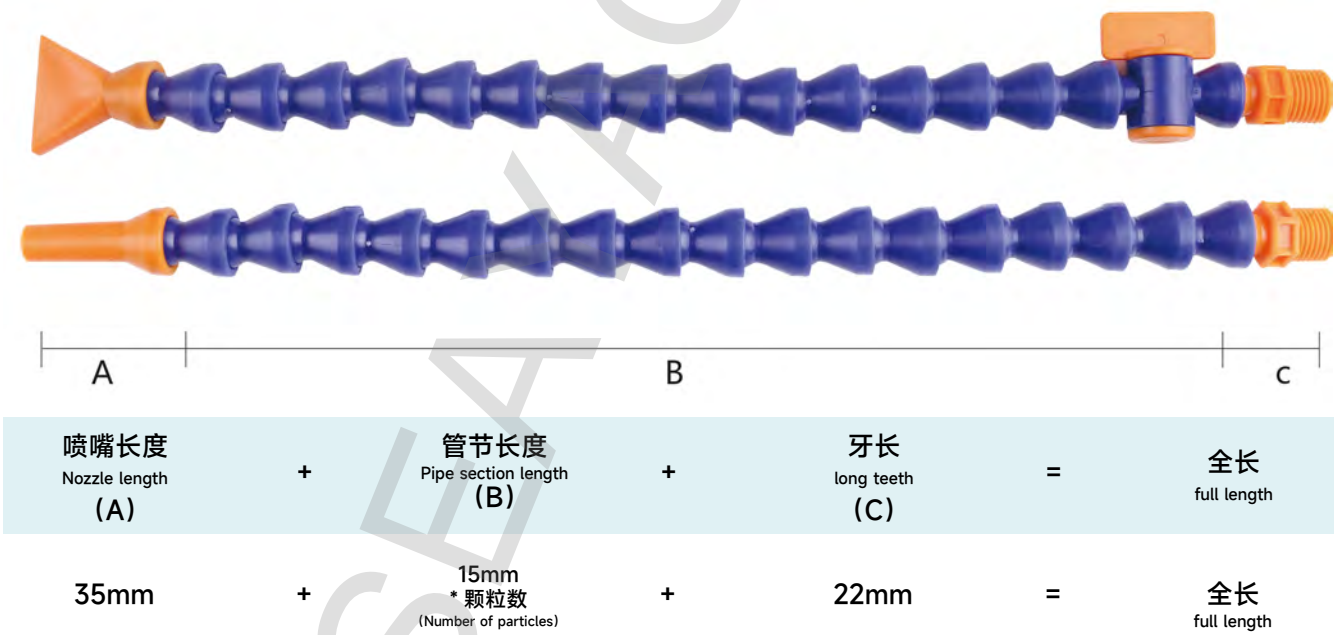


细圆嘴 Thin round mouth

粗圆嘴 Thick round mouth

扁嘴 Flat mouth

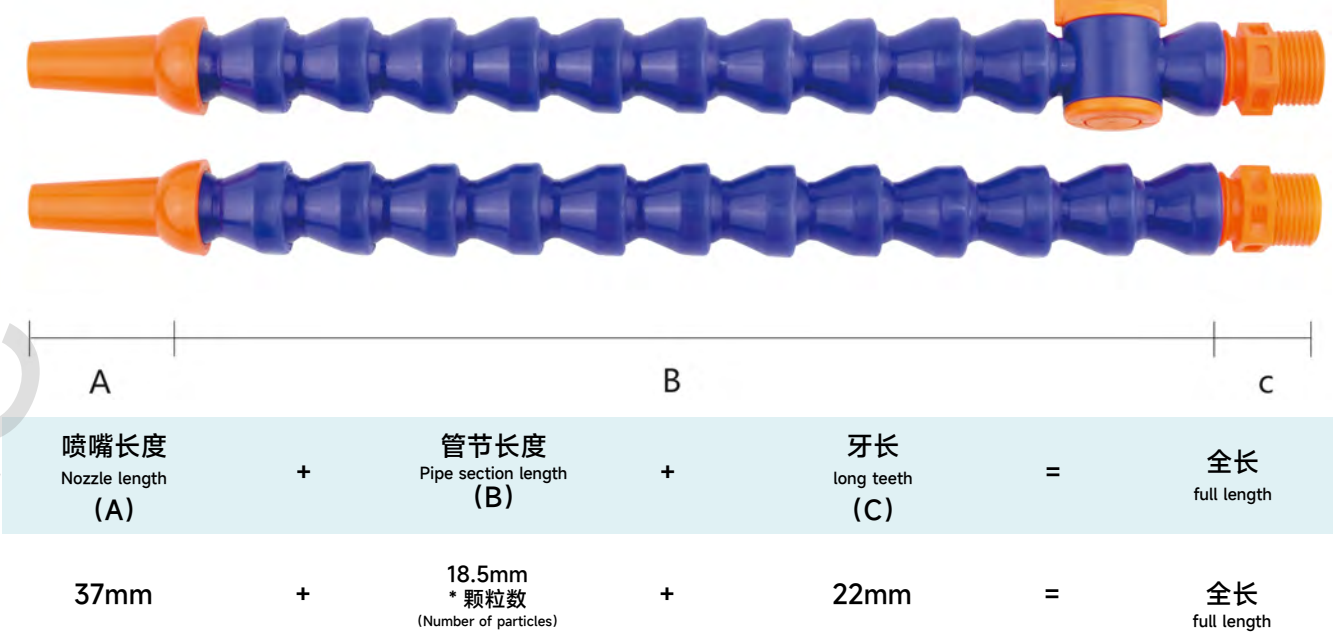
塑料冷却水管组合长度计算方法
Calculation method for combined length of plastic cooling water pipes



1/4" 塑料冷却水管配件组配表 (可根据要求任意长度管件组装)
1/4" plastic cooling water pipe accessories assembly table (Can be assembled with any length of pipe fittings as required)



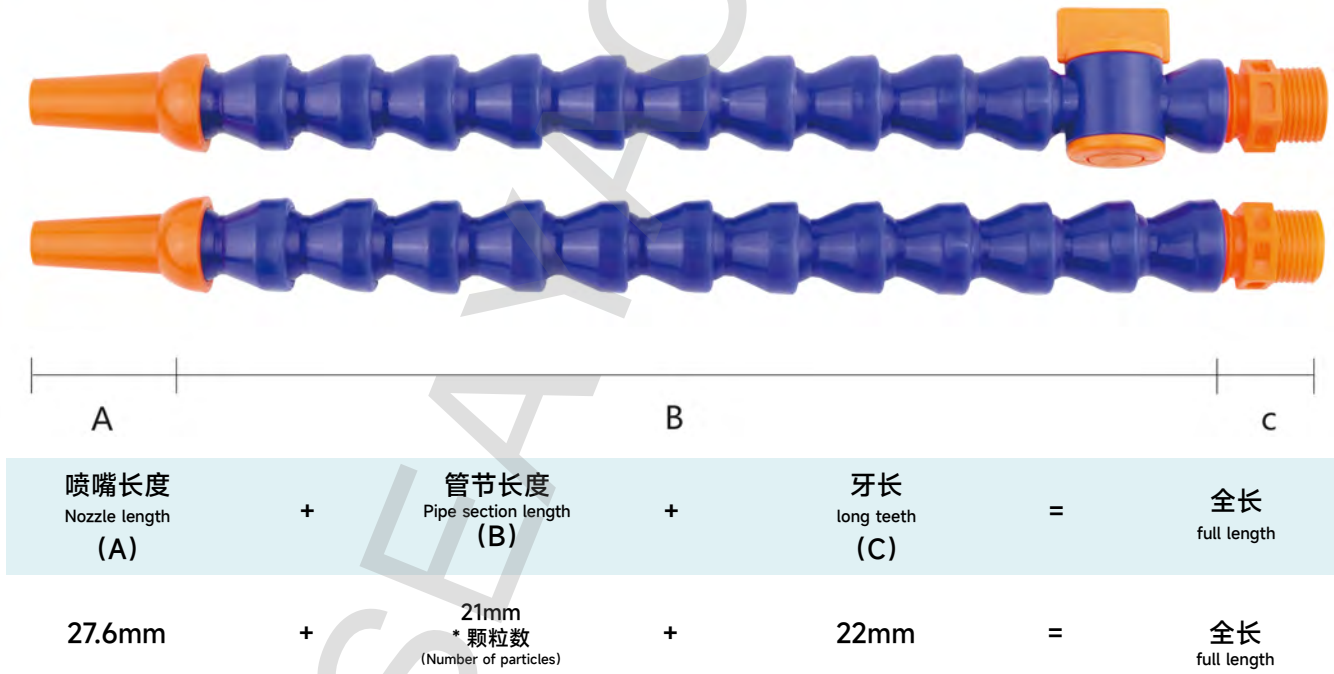
塑料冷却水管组合长度计算方法
Calculation method for combined length of plastic cooling water pipes



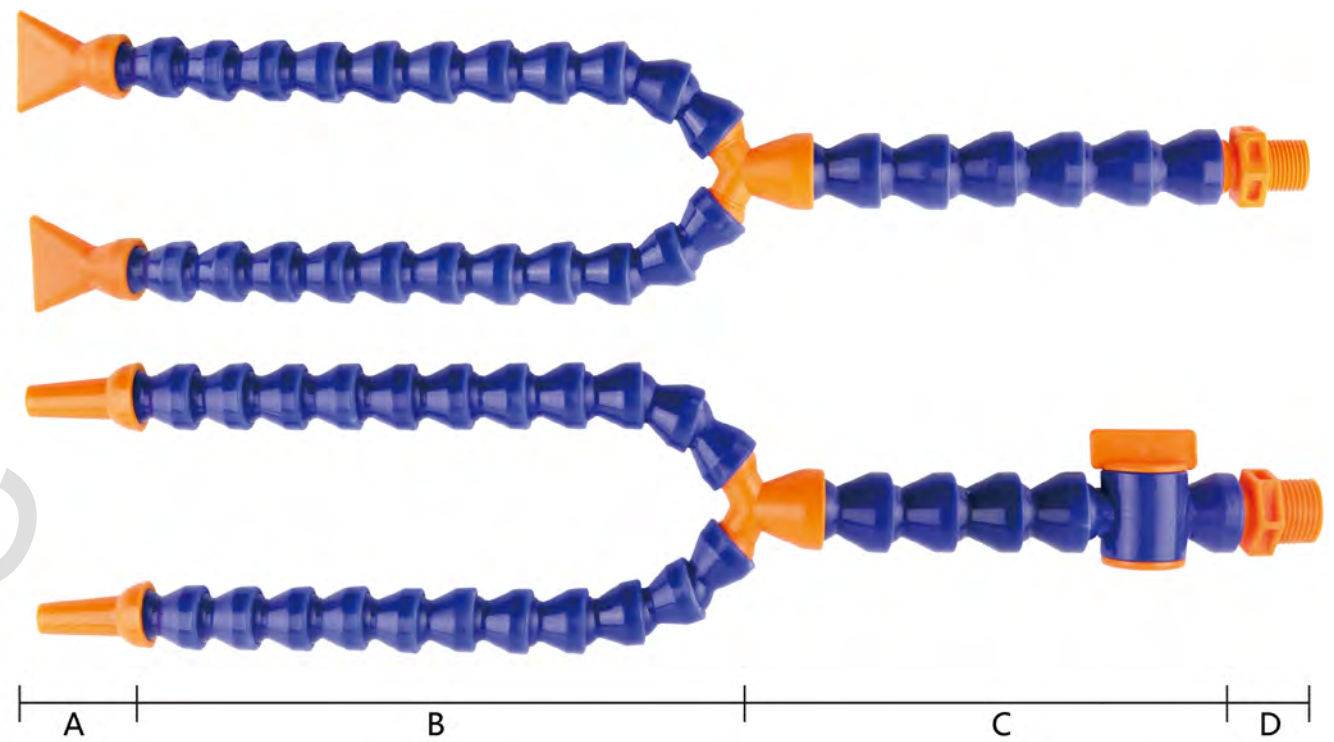
塑料冷却水管配件组配表 (可根据要求任意长度管件组装)
plastic cooling water pipe accessories assembly table (Can be assembled with any length of pipe fittings as required)



塑料冷却水管组合长度计算方法
Calculation method for combined length of plastic cooling water pipes



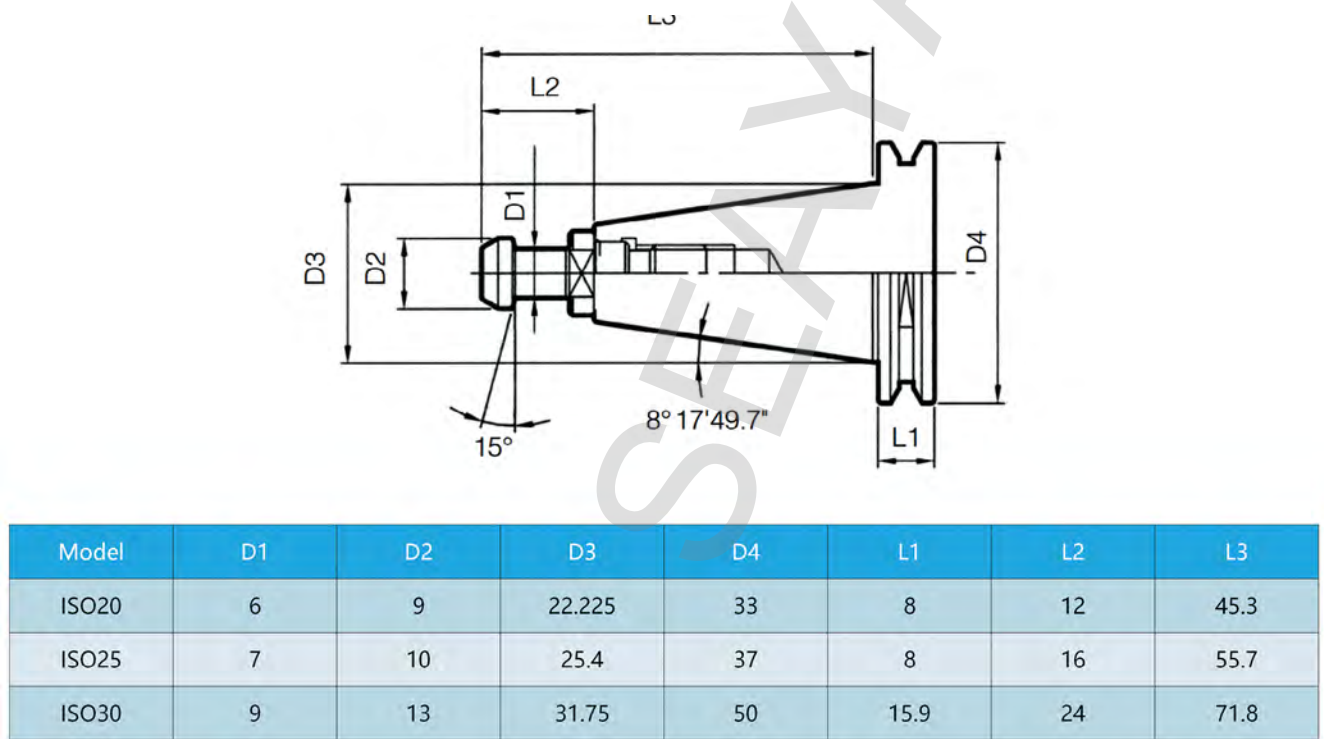
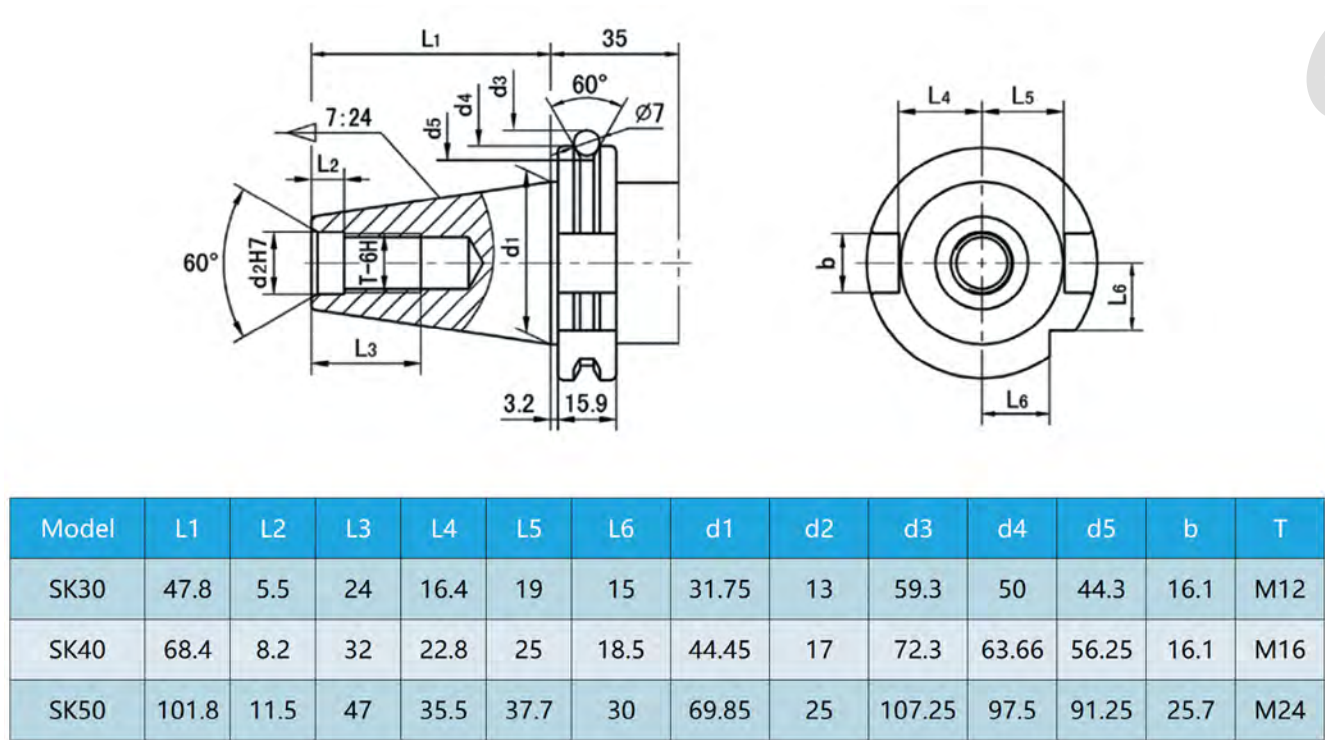
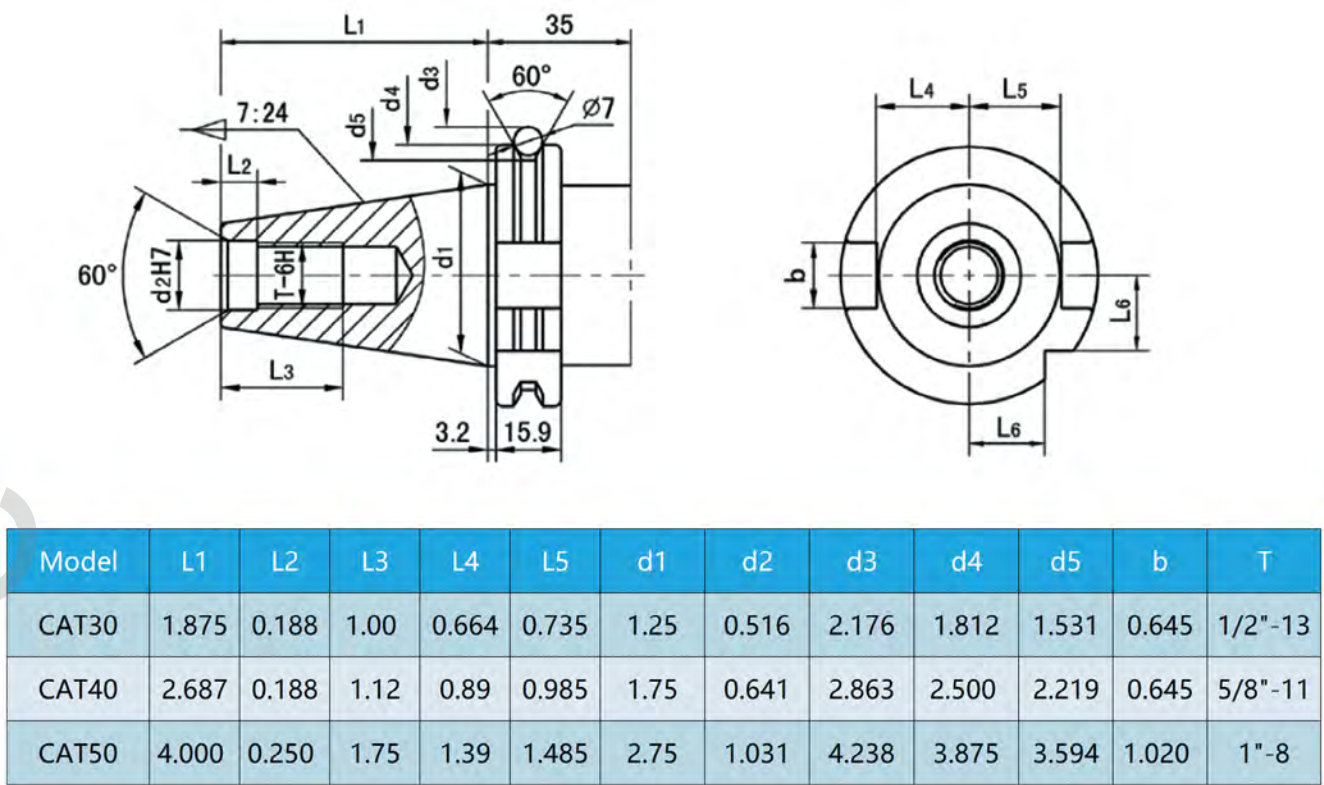
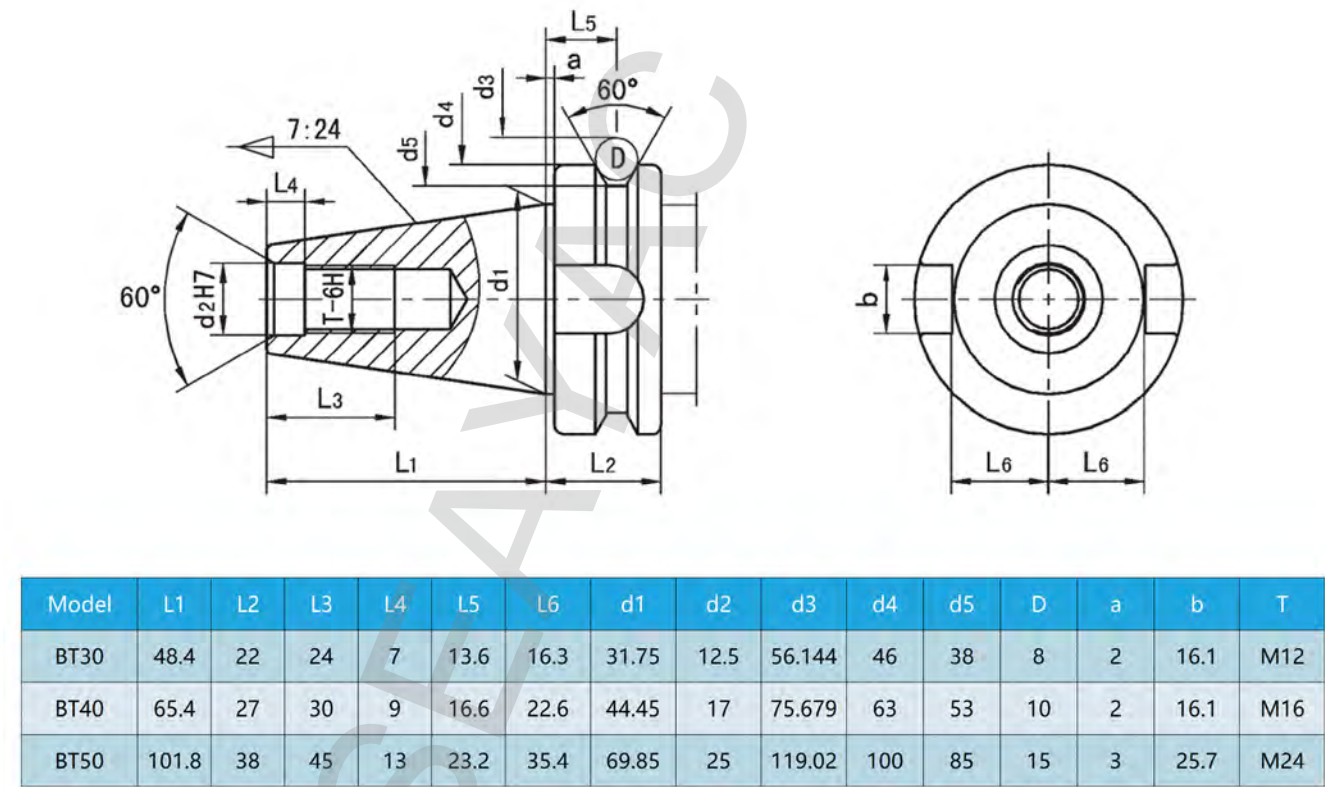
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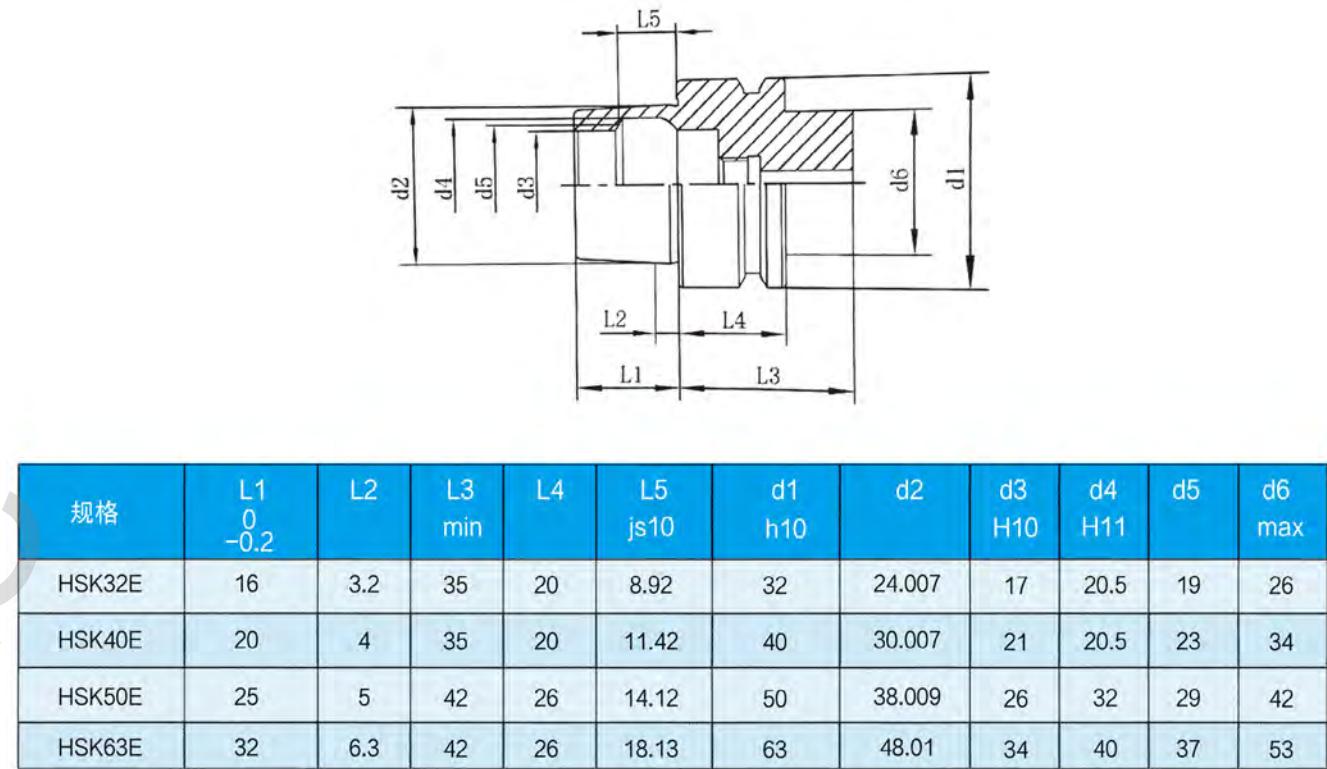
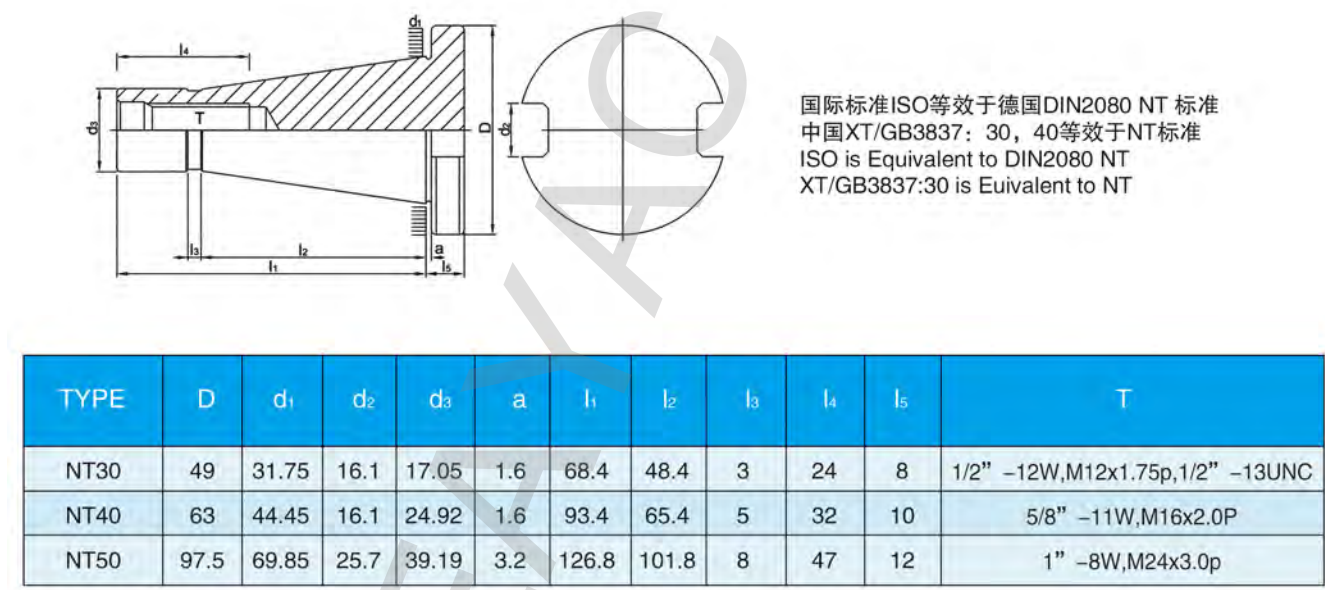


塑料冷却水管配件组配表 (可根据要求任意长度管件组装)
plastic cooling water pipe accessories assembly table (Can be assembled with any length of pipe fittings as required)

塑料冷却水管配件组配表 (可根据要求任意长度管件组装)
plastic cooling water pipe accessories assembly table (Can be assembled with any length of pipe fittings as required)







HSK-A 型 DIN69893 HSK-A

HSK-F 型 DIN63893 HSK-F

