



# OLIMA<sup>®</sup>

# OLICNC<sup>®</sup>

**SINCE 2004**

山东欧力机械股份有限公司  
SHANDONG OLI MACHINERY CO.,LTD

地址：山东省济宁市泗水县经济开发区泉鑫路9号 P.C.:273299  
Add.: No.9 Quanxin Rd.,Sishui Economic Developing Zone,  
Jining, Shandong, China

电话 (TEL) : +86-537-4252090 传真 (Fax) : +86-537-4255482

邮箱1 (E-Mail-1) : olima@olimachine.com MP.1+86 - 135 0547 0902

邮箱2 (E-Mail-2) : olima@126.com MP.2 : +86 - 156 6813 9156

网址 (WebSite) : www.olimachine.com Skype : olimaLee

网址 (WebSite) : www.olicnc.com WeChat : +86-135 0547 0902 What s app : +86-135 0547 0902



**NO.12**  
Made in China





1988年进入机床附件行业，欧力公司注册于2004年； 2006年在山东省泗水县经济开发区泉鑫路9号征地建厂，占地15320平米，厂房11000平米；**OLICNC**®商标于2015年完成国内注册，并分别于2018和2020年完成在欧盟与北美的注册；**OLICNC**®现在是一家集研发、加工、贸易、服务于一体的专业性工贸公司，服务于我们的客户，员工与社会。

**OLICNC**®主要生产经营工具夹具与木工机械配件，也出口当地生产的其他机械配件，属于机床工具行业。**OLICNC**®主要产品是车铣钻磨镗刨床及各类加工中心与数控机床上的必备夹具，分别有弹性夹头与套装铣夹头，铣刀柄，攻丝夹头，精粗镗头镗刀，钻夹头与顶尖系列等；其他可供产品有卡盘，组合压板，平口钳，台钳，分度头，工作台与磁力吸盘等；**OLICNC**®所有这些产品均可提供全系列常用的规格型号；也可来图来样订做加工。

**OLICNC**®凭借先进的数控机床，加工中心与齐备的检测手段，按照ISO9001标准流程控制生产经营的各环节，提供团队化的全程服务，实行精细化的细节管理；**OLICNC**®坚持诚实守信，质量第一，用户至上的原则，不仅为客户提供精准的产品，还有相关的售前、售后技术服务；**OLICNC**®这些年来总产量的85%已出口到40多个国家和地区，并得到国内外用户的好评与关注。

**OLICNC**®致力于依靠平台，团队，信誉创树企业品牌**OLICNC**®与**OLIMA**®。**OLICNC**®专注任何垂询，随时欢迎前来实地参观或进行商务洽谈；**OLICNC**®乐意开展本行业内的业务长远合作，并致力于满足您对产品服务的至臻要求。



**OLICNC**® came into the line of Machine Tool Accessories in 1988, set up and registered in 2004 legally; Bought land and built new factory at No. 9 Quanxin Rd., Sishui Economic Developing Zone, Jining, Shandong in 2007, occupies an area of 15320m<sup>2</sup>, workshops and office building are over 11000m<sup>2</sup>. **OLICNC**® brand was legally registered in China in 2015, furthermore in European Union in 2018 and in Northern American in 2020. Now **OLICNC**® consists of related R & D, processing, trading and service, as a professional company to serve for our clients, employees and society entirely.

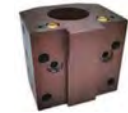
**OLICNC**® mainly manufactures Tooling System, Wood Machines Parts and machine Accessories belong to the line of Machine & Tools. **OLICNC**® main products are necessary Tool Holders in lathing, milling, drilling, grinding, boring, planning, CNC Machines or Machines or Machine Centers, including variety of Spring Collets, Collets Chuck Sets, Mill Holders, Tapping Collets, Rough or Precision Boring Heads, Drill Chucks, Live Centers and so on. Meanwhile, **OLICNC**® can also supply Machine Accessories like Lathe Chucks, Steel Clamping Kits, Machine Vises, Bench Vises, Dividing Heads, Rotary Tables and Magnetic Chucks., etc. All these items are in series of different common sizes. Besides above exiting ones, **OLICNC**® can also make and supply the goods as delivered samples of drawings.

With CNC machines and advanced testing methods, **OLICNC**® put her manufacturing and management under the strict control of ISO9001, offer steam service in process, fully manages each details during every step accurately and meticulously; **OLICNC**® insists on the principle to keep her words honestly, Quality first and clients go above everything, not only quality and precision products to be delivered, but also corresponding technological service before and after sale; There year **OLICNC**® have already exported 85% of her annual output to more than 40 countries and regions worldwide, and come to attract widespread good review and close attention from the clients at home & abroad.

**OLICNC**® devotes her to rely on our company's solid platform, striving team and nice reputation to establish her brands of **OLICNC**® & **OLIMA**®. **OLICNC**® pay attention to any inquiry and welcome business visit or negotiation at her factory. **OLICNC**® likes to cooperate between each other at a long term and dedicate to meet her client's top demands on products and service at most.



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

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



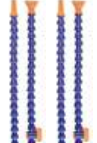
|                                                                                                                                                                                                                      |                                                                                    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

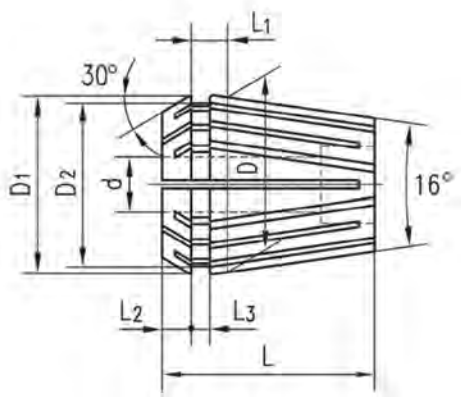


|                                                                                                                                                                         |                                                                                                                                 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



|                                                                                                                                                                                            |                                                                                                                                                                                   |                                                                                                                                                                                    |                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>96 超轻型活动带砧台钳<br/>96 Type Super Light Duty Bench Vices With Anvil Swivel Base</p>  <p>○详细请参照第 159 页</p> | <p>93 美式活动带砧台钳<br/>93 American Type Bench Vices With Anvil Swivel Base</p>  <p>○详细请参照第 159 页</p> | <p>95 美式活动带砧台钳<br/>95 American Type Bench Vices With Anvil Swivel Base</p>  <p>○详细请参照第 159 页</p> | <p>木工顶尖套装<br/>Live Centers Sets for Wood-working Machines</p>  <p>○详细请参照第 159 页</p> |
| <p>Q19 德式钻床平口钳<br/>Q19 German Type Drilling Machine Vices</p>  <p>○详细请参照第 160 页</p>                       | <p>Q19 丝杠缩入式平口钳<br/>Q19E Guild-Screw Leading-in Drilling Vices</p>  <p>○详细请参照第 160 页</p>         | <p>Q19A 美式钻床平口钳<br/>Q19A American Type Drilling Machine Vices</p>  <p>○详细请参照第 160 页</p>          | <p>SY 手板压力机<br/>SY Arbor Presses</p>  <p>○详细请参照第 160 页</p>                          |
| <p>PB150 型平行块<br/>PB150 Parallel Block</p>  <p>○详细请参照第 161 页</p>                                          | <p>PB151 型平行块<br/>PB151 Parallel Block</p>  <p>○详细请参照第 161 页</p>                                 | <p>PB153 型平行块<br/>PB153 Parallel Block</p>  <p>○详细请参照第 162 页</p>                                 | <p>PB154 型平行块<br/>PB154 Parallel Block</p>  <p>○详细请参照第 162 页</p>                    |
| <p>PB155 型平行块<br/>PB155 Parallel Block</p>  <p>○详细请参照第 162 页</p>                                        | <p>平行垫块 1×2×3"BLOCKS<br/>Parallel Blocks</p>  <p>○详细请参照第 163 页</p>                             | <p>平行垫块 1×2×3"BLOCKS<br/>Parallel Blocks</p>  <p>○详细请参照第 163 页</p>                             | <p>平行垫块 1×2×3"BLOCKS<br/>Parallel Blocks</p>  <p>○详细请参照第 163 页</p>                |
| <p>平行垫块 1×2×3"BLOCKS<br/>Parallel Blocks</p>  <p>○详细请参照第 164 页</p>                                      | <p>平行垫块 2×3×4"BLOCKS<br/>Parallel Blocks</p>  <p>○详细请参照第 164 页</p>                             | <p>平行垫块 2×4×6"BLOCKS<br/>Parallel Blocks</p>  <p>○详细请参照第 164 页</p>                             | <p>公制垫块<br/>Metric Blocks</p>  <p>○详细请参照第 165 页</p>                               |
| <p>圆形永磁细目吸盘<br/>Circular Permanent Magnetic Chuck</p>  <p>○详细请参照第 165 页</p>                             | <p>XM91 矩形永磁吸盘<br/>XM91 Rectangular Permanent Magnetic Chuck</p>  <p>○详细请参照第 166 页</p>         | <p>OL-Z13 钻头研磨机<br/>Drill Bit Re-sharpener</p>  <p>○详细请参照第 167 页</p>                           | <p>OL-Z13 钻头研磨机<br/>Drill Bit Re-sharpener</p>  <p>○详细请参照第 168 页</p>              |
| <p>OL-U2 万能磨刀机<br/>Universal Cutter Grinder</p>  <p>○详细请参照第 168 页</p>                                   | <p>OL-U2 万能磨刀机<br/>Universal Cutter Grinder</p>  <p>○详细请参照第 169 页</p>                          | <p>永磁吸盘起重器<br/>Permanent Magnetic Lifters</p>  <p>○详细请参照第 170 页</p>                            | <p>圆形电磁起重器<br/>Electro Magnetic Lifter</p>  <p>○详细请参照第 170 页</p>                  |

|                                                                                                                                                                |                                                                                                                                                                   |                                                                                                                                                               |                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>FK15 系列数控分度头<br/>FK15 Series CNC Dividing Head</p>  <p>○详细请参照第 171 页</p> | <p>台湾款分度头<br/>Semi-Universal Dividing Heads</p>  <p>○详细请参照第 173 页</p>          | <p>蜂巢板<br/>QB Planning Machine Vices(QB=Q13)</p>  <p>○详细请参照第 173 页</p>     | <p>万能分度头<br/>Universal Dividing Heads</p>  <p>○详细请参照第 174 页</p>      |
| <p>F2 型立卧等分分度头<br/>F2 Type Direct Dividing Heads</p>  <p>○详细请参照第 175 页</p>  | <p>F3 型立卧等分分度头<br/>F3 Type Direct Dividing Heads</p>  <p>○详细请参照第 176 页</p>     | <p>立卧回转工作台<br/>Vertical/Horizontal Rotary Tables</p>  <p>○详细请参照第 177 页</p> | <p>可倾回转工作台<br/>Tilting Rotary Tables</p>  <p>○详细请参照第 178 页</p>       |
| <p>卧式回转工作台<br/>TS Horizontal Rotary Tables</p>  <p>○详细请参照第 179 页</p>        | <p>镀锌磁座 ( 银色 )<br/>Galvanized magnetic base (silver)</p>  <p>○详细请参照第 180 页</p> | <p>冷却水管<br/>Cooling water pipe</p>  <p>○详细请参照第 181 页</p>                   | <p>分叉水管系列<br/>Bifurcated water pipe series</p>  <p>○详细请参照第 184 页</p> |

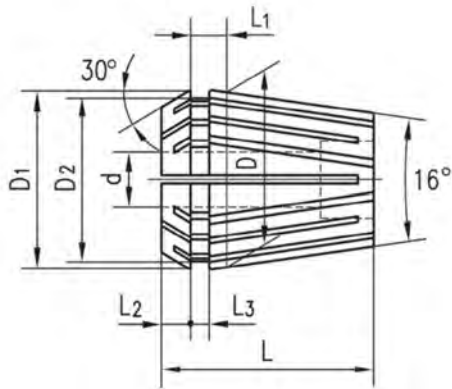


○材质: 65Mn  
○硬度: HRC44-48

○ Material: 65Mn  
○ Hardness: HRC44-48

○ Run Out  
I: ≤ 0.003mm II: ≤ 0.005mm III: ≤ 0.008mm  
IV: ≤ 0.015mm V: ≤ 0.01mm

| 型号<br>Model | dH7        | D  | D1   | D2   | L    | L1   | L2  | L3  | 弹性收缩量<br>Collapsible<br>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  
○本体精度: <0.008MM  
○硬度: HRC50-55°

○ Material: Stainless Steel 4Cr13  
○ Body Accuracy: <0.008MM  
○ 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         |



0.015



0.010



0.008



0.005



0.003



| ER8<br>(1-5mm) | ER11<br>(1- 7mm) | ER16<br>(1-10mm) | ER20<br>(1-13mm) | ER25<br>(1-16mm) | ER32<br>(1-20mm) | ER40<br>(3-26mm) | ER50<br>(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<br>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<br>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        |

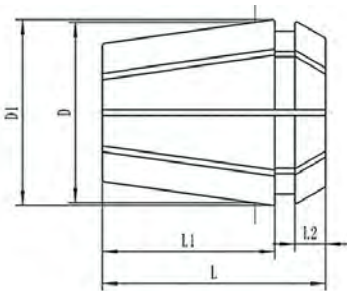


| 型号 Model         | 规格 Spec                                                                                                                                                          | 支 / 套 PCS/SET |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 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<br>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 ,<br>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<br>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<br>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<br>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 ,<br>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 ,<br>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<br>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 ,<br>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<br>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      |



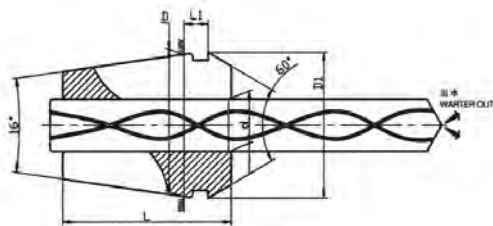
| 型号 Model No.     | 规格 Spec                                                                                                       | 支 / 套 PCS/SET |
|------------------|---------------------------------------------------------------------------------------------------------------|---------------|
| ER8-9PCS         | 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<br>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 ,<br>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 ,<br>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 ,<br>7/16 , 1/2                                    | 11PCS/SET     |





○材料：65Mn      ○Material: 65Mn  
○硬度：HRC44-48      ○Hardness: HRC44-48

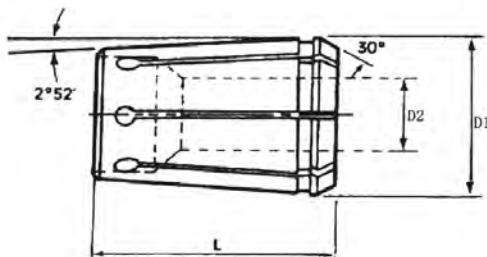
| Model                                     | D    | D1    | L    | L1   | L2             | 攻丝范围<br>Tapping range |       |         |     |                |  |       |      |
|-------------------------------------------|------|-------|------|------|----------------|-----------------------|-------|---------|-----|----------------|--|-------|------|
| 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<br>丝锥规格                            |      | 丝锥尺寸  |      |      | JIS 日标<br>丝锥规格 |                       | 丝锥尺寸  |         |     | DIN 德标<br>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      ○Material: 65Mn  
○硬度：HRC44-48      ○Hardness: 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  
○ 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

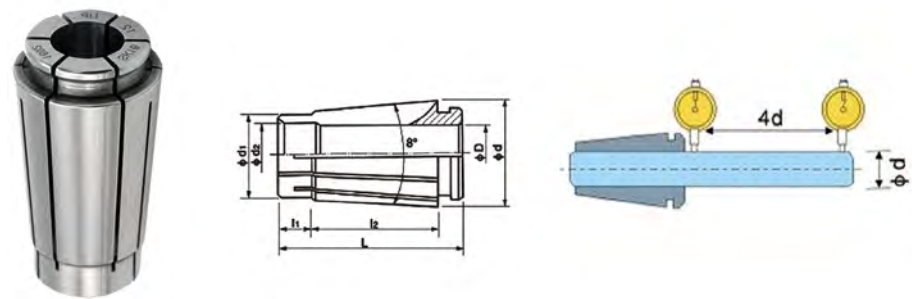
| 型号 Model | d       | 夹持范围 Range | D  | D1   | L    | L1   |
|----------|---------|------------|----|------|------|------|
| ER11C    | 3-7     | 0.1        | 11 | 11.5 | 18   | 3.8  |
| ER16C    | 3-6     | 0.1        | 16 | 17   | 27.5 | 6.26 |
|          | 6-10    | 0.5        |    |      |      |      |
| 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



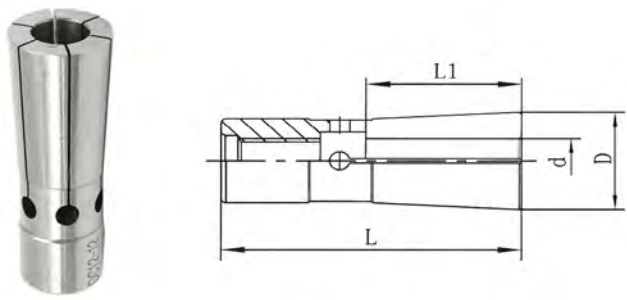
|             |
|-------------|
| 65Mn        |
| Taper: 1:10 |
| DIN3688     |
| ≤ 0.015mm   |

| 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" |



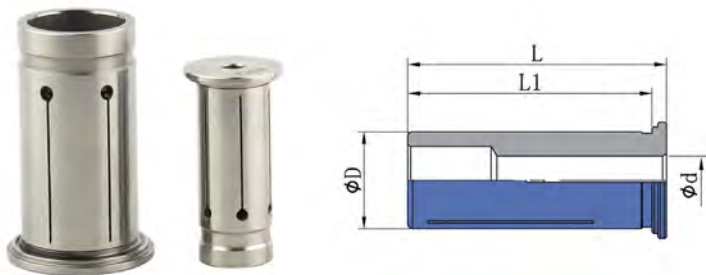
|           |
|-----------|
| 65Mn      |
| HRC:44~48 |
| ≤ 0.005mm |

| 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 | 7.5,8,9,9.5,10,11,11.5,12,12.5,13,13.5,14,14.5,15,15.5,16,16.5,17,17.5,18,18.5,19,19.5,20,20.5,21,21.5,22,22.5,23,23.5,24,24.5,25mm | 29.1 | 22.6 | 54   | 8   | 40.7 |
| SK25 | 7.5,8,9,9.5,10,11,11.5,12,12.5,13,13.5,14,14.5,15,15.5,16,16.5,17,17.5,18,18.5,19,19.5,20,20.5,21,21.5,22,22.5,23,23.5,24,24.5,25mm | 35.7 | 28.9 | 57   | 8.4 | 43.1 |



|           |
|-----------|
| 65Mn      |
| HRC:44~48 |
| ≤ 0.005mm |

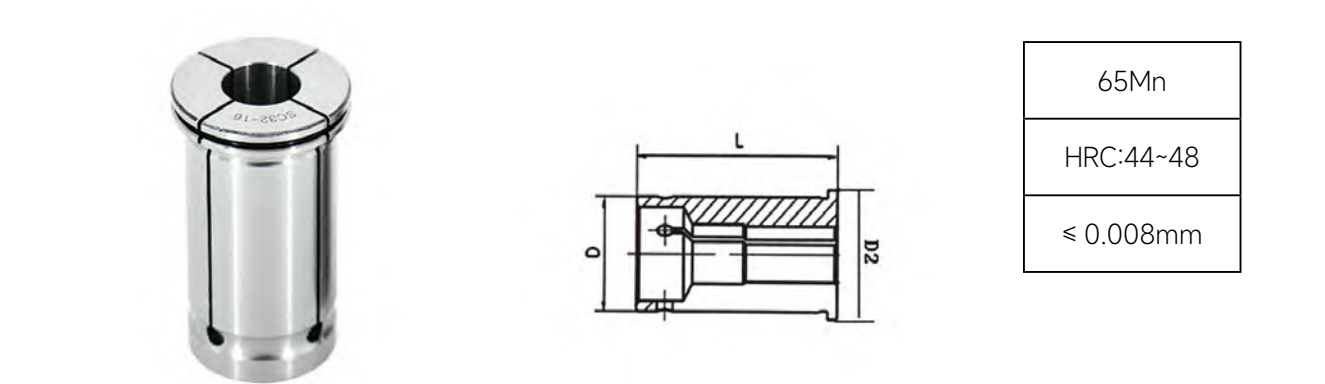
| Model |        | d     | L  | L1 | D   |
|-------|--------|-------|----|----|-----|
| SDC6  | 3E     | 3     | 36 | 14 | 9.6 |
|       | 3.175E | 3.175 | 36 | 14 | 9.6 |
|       | 4E     | 4     | 36 | 14 | 9.6 |
|       | 5E     | 5     | 36 | 16 | 9.6 |
|       | 6E     | 6     | 36 | 16 | 9.6 |
| 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  |



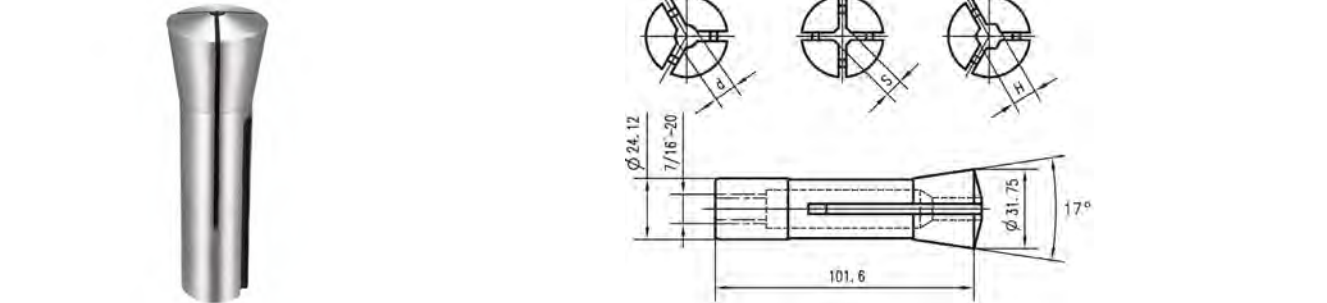
材质: 65Mn 本体精度: <0.003MM 硬度: HRC50-55° 渗碳深度: ≥ 0.8MM  
Material: 65Mn Body Accuracy: <0.003MM Hardness: HRC50-55° Carburized depth: ≥ 0.8MM

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





| 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 |



1. 材料: 65Mn

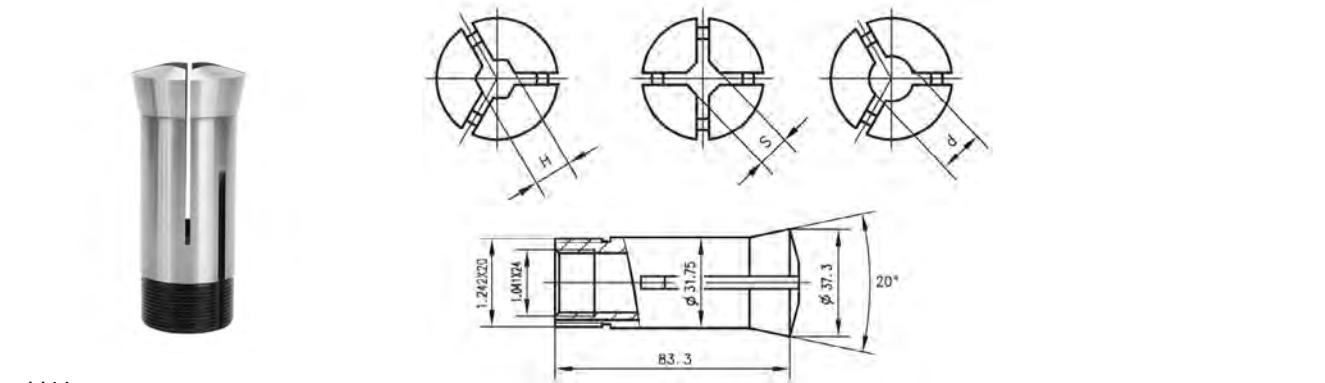
2. 硬度: 夹持部分 HRC55 ~ 60 弹性区 HRC40 ~ 45

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      |



- 1.材料: 65Mn

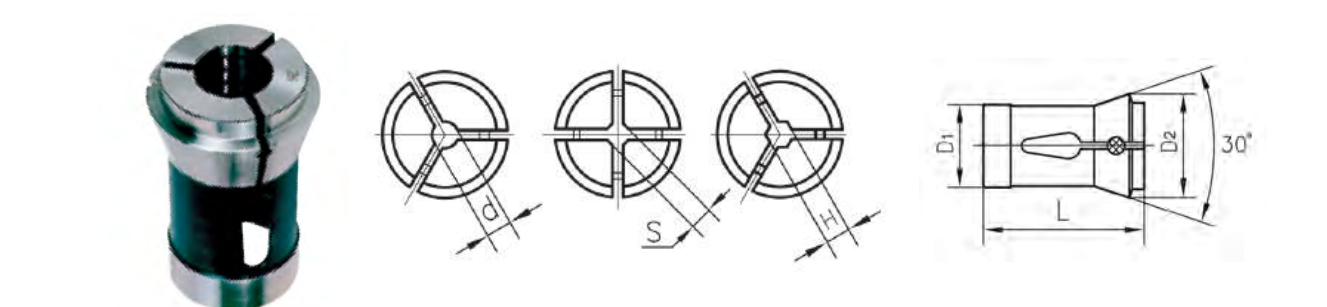
2.硬度: 夹持部分 HRC55 ~ 60 弹性区 HRC40 ~ 45

3.适用于主轴锥孔为 5C 的各种车床, 如自动车床、数控车床等
1. Material: 65Mn

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

3. This unit is applicable to all sorts of lathes,which spindle taper hole is 5C,such as automatic lathes,CNC lathes etc.

| 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      |



1. 材料: 65Mn

2. 硬度: 夹持部分 HRC55 ~ 60 弹性区 HRC40 ~ 45

3. 适用于各种车床、六角车床等
1. Material: 65Mn

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

3. This unit is applicable to all sorts of automatic lathes,turret lathes

| 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                |

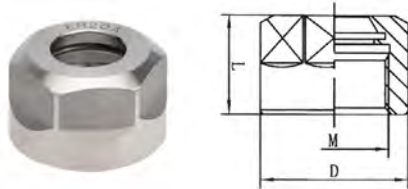
滚珠轴承扳手  
Roller Bearing Wrench



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

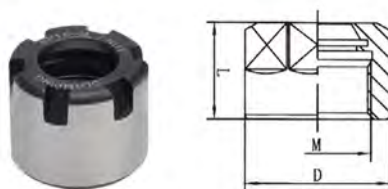
螺母系列 Nut Series

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-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-UM 型螺帽 ER-UM Nuts



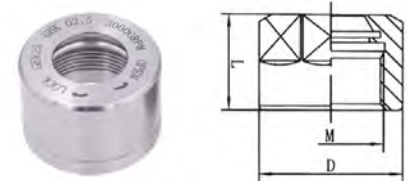
| MODEL  | L    | D  | M        |
|--------|------|----|----------|
| ER25UM | 20   | 42 | M32×1.5P |
| ER32UM | 22.5 | 50 | M40×1.5P |
| ER40UM | 25.5 | 63 | M50×1.5P |

ER-MS 型螺帽 ER-MS Nuts



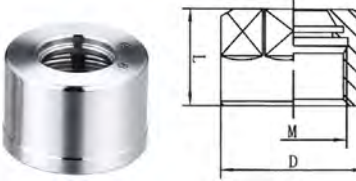
| MODEL  | L    | D  | M         |
|--------|------|----|-----------|
| ER11MS | 11.3 | 16 | M13×0.75P |
| ER16MS | 17   | 22 | M19×1.0P  |
| ER20MS | 19   | 28 | M24×1.0P  |
| ER25MS | 23   | 35 | M30×1.0P  |

ER-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 |

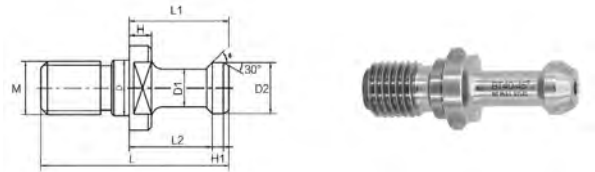
ER-GSK 型螺帽 ER-GSK Nuts



| 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   |



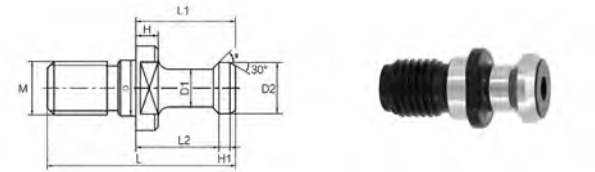
BT 拉钉系列



MAS 403-1982

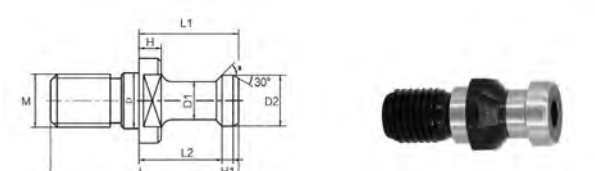
| Model   | L  | L1 | L2 | D    | D1 | D2 | H  | H1  | M   | θ   |     |     |
|---------|----|----|----|------|----|----|----|-----|-----|-----|-----|-----|
| BT30(θ) | 43 | 23 | 18 | 12.5 | 7  | 11 | 5  | 2.5 | M12 | 45° | 60° | 90° |
| BT40(θ) | 60 | 35 | 28 | 17   | 10 | 15 | 6  | 3   | M16 | 45°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

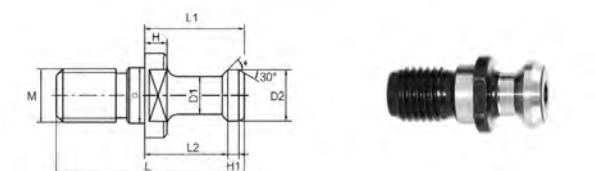
JT/SK 系列拉钉



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 |

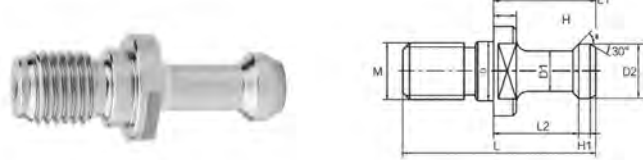
CAT 系列拉钉



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    |

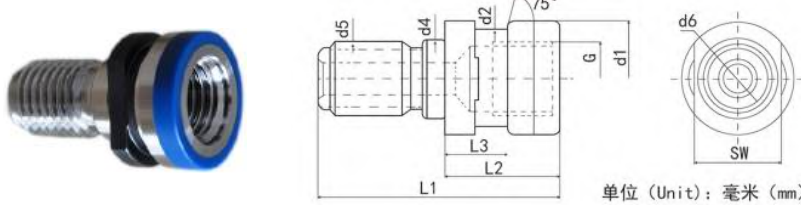
不锈钢拉钉 Stainless Steel Pull Stud



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



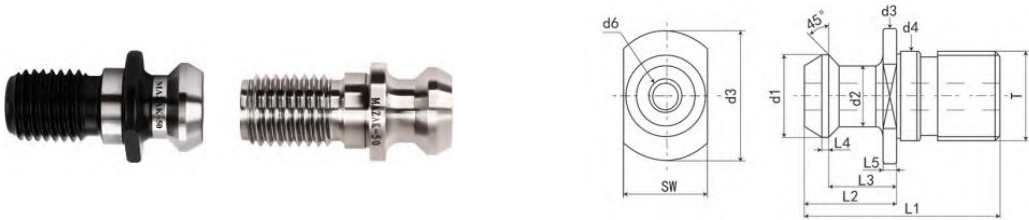
| Model | d1   | d2 | d4   | d5 | d7  | d8  | L1   | L2   | L3   | L5 | L6 | S  | 重量<br>Weight |
|-------|------|----|------|----|-----|-----|------|------|------|----|----|----|--------------|
| OTT40 | 25   | 17 | 21.1 | 7  | M16 | M16 | 53   | 25.1 | 13.6 | 6  | 5  | 19 | 0.086        |
| OTT50 | 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



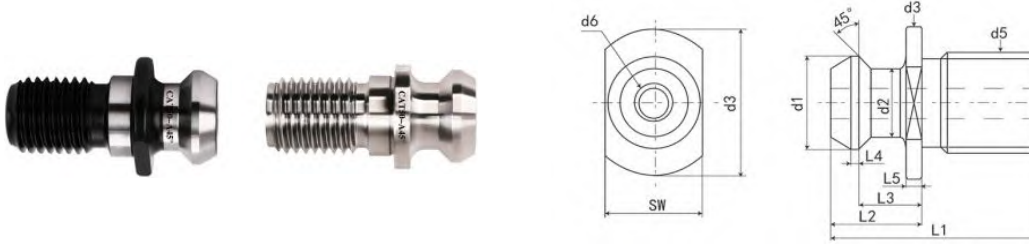
| Model | D    | d  | d1 | d2  | L  | L1 | L2   | W  | M         |
|-------|------|----|----|-----|----|----|------|----|-----------|
| ISO20 | 11.4 | 9  | 6  | 8.5 | 26 | 12 | 9    | 10 | M8*1.25P  |
| ISO25 | 12   | 10 | 7  | 9   | 32 | 16 | 11.6 | 10 | M8*1.25P  |
| ISO30 | 17   | 13 | 9  | 13  |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

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



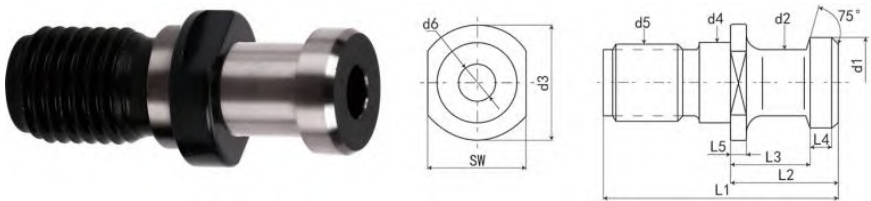
| Model        | d1    | d2 | d3 | d4    | d5 | d7  | d8 | L1   | L2   | L3    | L5 | L6 | L9   | S  | 重量 Weight |
|--------------|-------|----|----|-------|----|-----|----|------|------|-------|----|----|------|----|-----------|
| MAZAK-BT40   | 18.8  | 17 | 22 | 12.45 |    | M16 |    | 4.1  | 19.1 | 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



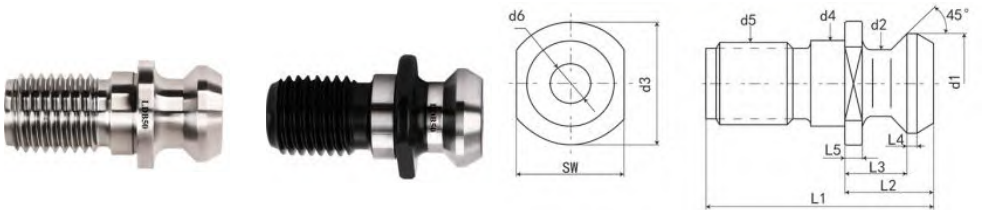
| Model         | d1    | d3    | d4    | d5    | d7           | L1    | L2    | L3    | L5   | L9   | S     | 重量 Weight |
|---------------|-------|-------|-------|-------|--------------|-------|-------|-------|------|------|-------|-----------|
| CAT30-45° U   | 13.21 | 16.51 | 9.78  |       | 0.5"-13UNC   | 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



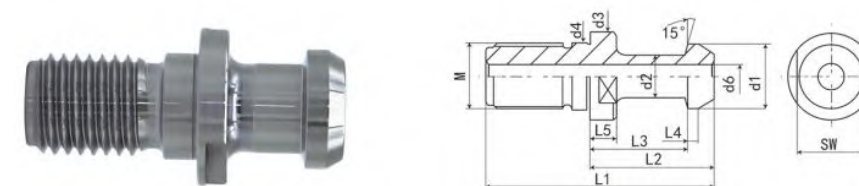
CT 美制螺纹拉钉 CT American Standard Screw Thread Pull Pullstud

| Model         | d1 | d3 | d4 | d5  | d7           | L1    | L2    | L3    | L5 | L10 | L11 | S  | α   | 重量<br>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   |    |    |    |     |              |       |       |       |    |     |     |    |     |             |
| CAT40-60° U/W |    |    |    | 4   |              |       |       |       |    |     |     |    |     |             |
| CAT40-90° U   |    |    |    |     |              |       |       |       |    |     |     |    |     |             |
| 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   |    |    |    |     |              |       |       |       |    |     |     |    |     |             |
| CAT50-60° U/W |    |    |    | 8.5 |              |       |       |       |    |     |     |    |     |             |
| CAT50-90° U   |    |    |    |     |              |       |       |       |    |     |     |    |     |             |
| CAT50-90° U/W |    |    |    | 8.5 |              |       |       |       |    |     |     |    |     |             |

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

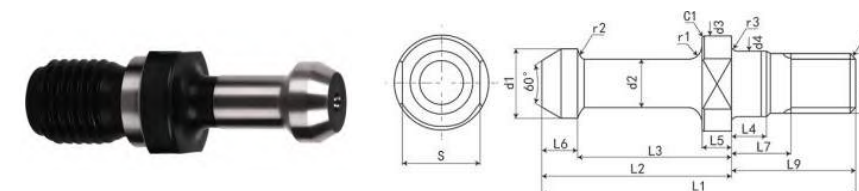
| Model        | d1   | d2    | d3    | d4    | d5  | d6    | L1   | L2    | L3   | SW    | α   | 重量<br>Weigh |
|--------------|------|-------|-------|-------|-----|-------|------|-------|------|-------|-----|-------------|
| CAT40*45°    | 15   | 10    | 23    | 17    | M16 |       | 57   | 32    | 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



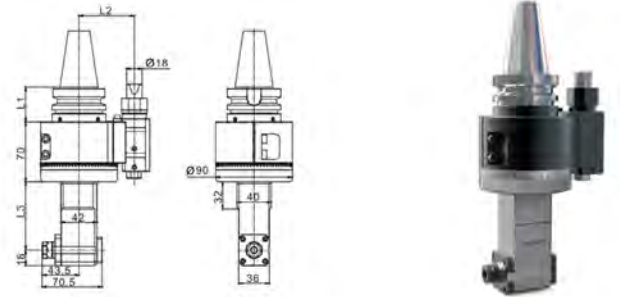
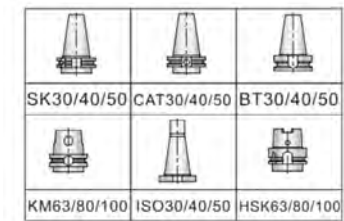
| Model | d1 | d2   | d3   | d4 | d5  | d7  | L1 | L2   | L3   | L5 | L6 | L9 | L11 | S  | 重量 Weight |
|-------|----|------|------|----|-----|-----|----|------|------|----|----|----|-----|----|-----------|
| 30P   | 12 | 12.5 | 16.5 | 8  |     | M12 | 43 | 23.4 | 18.4 | 5  | 4  | 3  | 3.5 | 13 |           |
| 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 |           |
| 50P/W |    |      |      |    | 10  |     |    |      |      |    |    |    |     |    | 0.224     |
| 60P   | 36 | 31   | 48   | 27 |     | M30 | 98 | 48   | 36   | 11 | 10 | 7  | 8   | 41 |           |
| 60P/W |    |      |      |    | 12  |     |    |      |      |    |    |    |     |    | 0.509     |

## SR 拉钉 SR Pull Stud



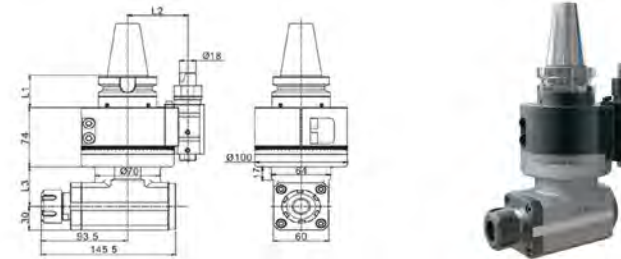
| Model | L1              | d4<br>h7        | d5<br>6g        | C2              | r3<br>(最大) | L4  | L7               | d3<br>0<br>-0.1  | rl    | L5<br>0<br>-0.1 | s<br>0<br>-0.2 | C1  |
|-------|-----------------|-----------------|-----------------|-----------------|------------|-----|------------------|------------------|-------|-----------------|----------------|-----|
| 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<br>0<br>-0.1 | d2<br>0<br>-0.1 | L2<br>0<br>-0.1 | L3<br>0<br>-0.1 | L6         | r2  | φ                |                  | L3-L5 | L9              | CHUCK          |     |
|       |                 |                 |                 |                 |            |     | 1形               | 2形               |       |                 |                |     |
| S5R   | 5.8             | 4               | 13.5            | 10.5            | 1.4        | 0.3 | +0.5<br>0<br>15° | +0.5°<br>0<br>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           |     |

可选驱动刀柄型号: BT、NT、CAT、DAT、HSK



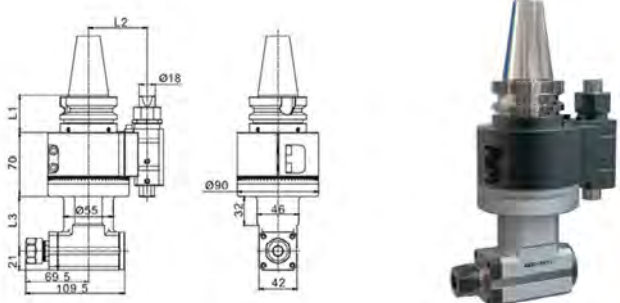
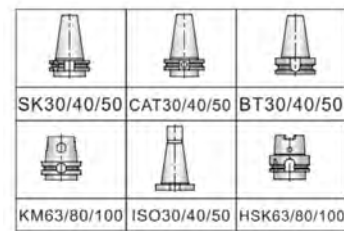
| Model         | exportation | L1    | L2    | L3  | 功率<br>power | 最高转速<br>Maximum Speed | 最大扭矩<br>Maximum torqua | 减速比<br>Reduction ratio |
|---------------|-------------|-------|-------|-----|-------------|-----------------------|------------------------|------------------------|
| AG90-ER11-80  | 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                    |

可选驱动刀柄型号: BT、NT、CAT、DAT、HSK



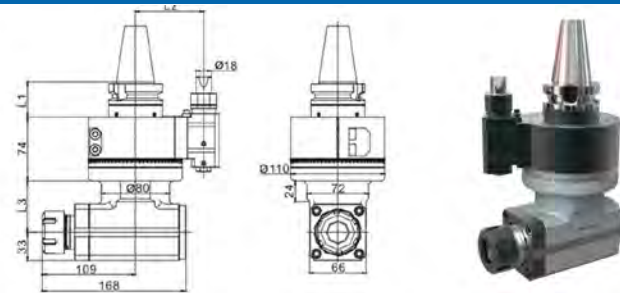
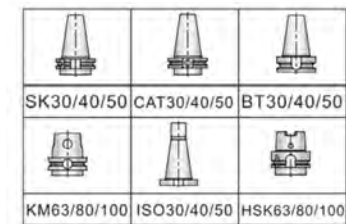
| Model         | exportation | L1    | L2    | L3  | 功率<br>power | 最高转速<br>Maximum Speed | 最大扭矩<br>Maximum torqua | 减速比<br>Reduction ratio |
|---------------|-------------|-------|-------|-----|-------------|-----------------------|------------------------|------------------------|
| AG90-ER25-50  | 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                    |

可选驱动刀柄型号: BT、NT、CAT、DAT、HSK



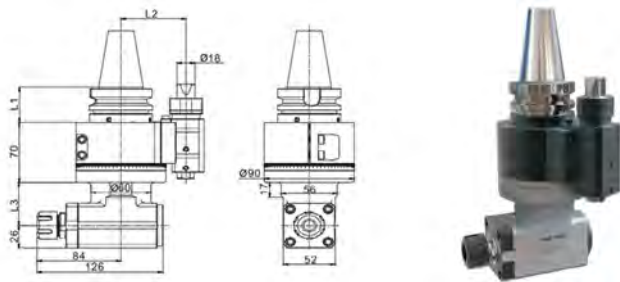
| Model         | exportation | L1    | L2    | L3  | 功率<br>power | 最高转速<br>Maximum Speed | 最大扭矩<br>Maximum torqua | 减速比<br>Reduction ratio |
|---------------|-------------|-------|-------|-----|-------------|-----------------------|------------------------|------------------------|
| AG90-ER16-60  | 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                    |

可选驱动刀柄型号: BT、NT、CAT、DAT、HSK



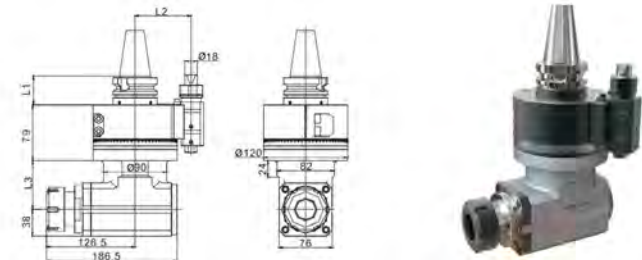
| Model         | exportation | L1    | L2     | L3  | 功率<br>power | 最高转速<br>Maximum Speed | 最大扭矩<br>Maximum torqua | 减速比<br>Reduction ratio |
|---------------|-------------|-------|--------|-----|-------------|-----------------------|------------------------|------------------------|
| AG90-ER32-60  | 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                    |

可选驱动刀柄型号: BT、NT、CAT、DAT、HSK



| Model         | exportation | L1    | L2    | L3  | 功率<br>power | 最高转速<br>Maximum Speed | 最大扭矩<br>Maximum torqua | 减速比<br>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                    |

可选驱动刀柄型号: BT、NT、CAT、DAT、HSK

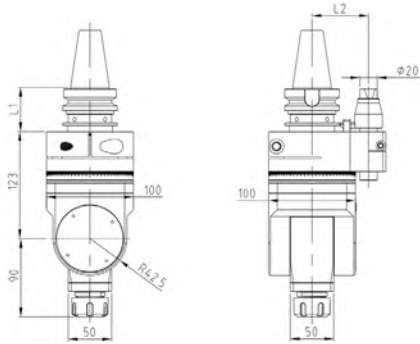
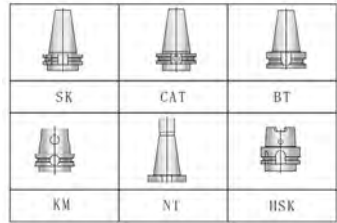


| Model         | exportation | L1    | L2     | L3  | 功率<br>power | 最高转速<br>Maximum Speed | 最大扭矩<br>Maximum torqua | 减速比<br>Reduction ratio |
|---------------|-------------|-------|--------|-----|-------------|-----------------------|------------------------|------------------------|
| AG90-ER40-70  | 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                    |



AGMU-ER25 系列

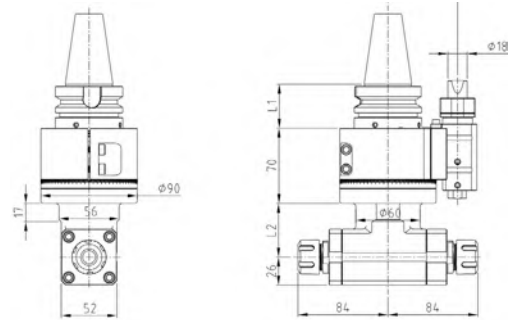
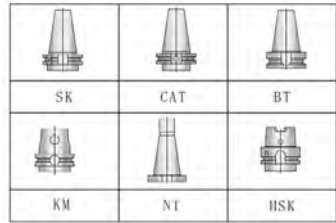
可选用驱动刀柄: SK, CAT, BT, KM, NT, HSK等



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

AG90-ER20\*2 系列

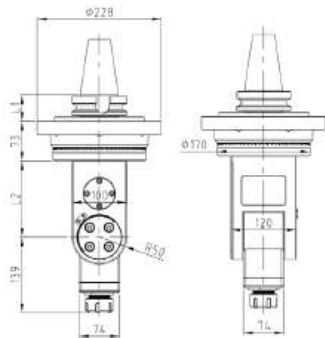
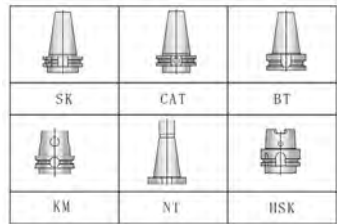
可选用驱动刀柄: SK, CAT, BT, KM, NT, HSK等



| Moel            | 输出<br>exportation | L1    | L2    | L3  | 功率<br>power | 最高转速<br>Maximum Speed | 最高扭矩<br>Maximum torqua | 转速比<br>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                    |

AGU-ER32 系列

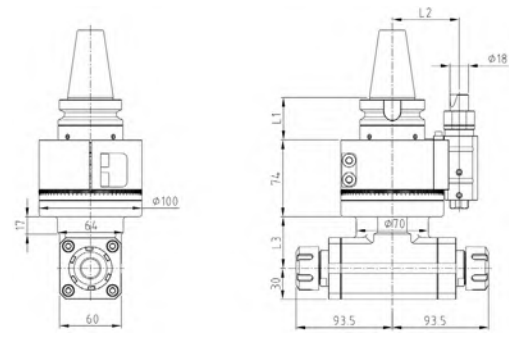
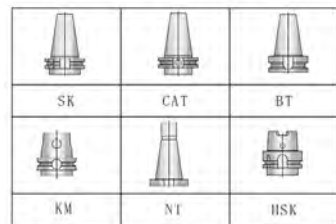
可选用驱动刀柄: SK, CAT, BT, KM, NT, HSK等



| Moel         | 输出<br>exportation | L1    | L2  | L3  | 功率<br>power | 最高转速<br>Maximum Speed | 最高扭矩<br>Maximum torqua | 转速比<br>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                    |

AG90-ER25\*2 系列

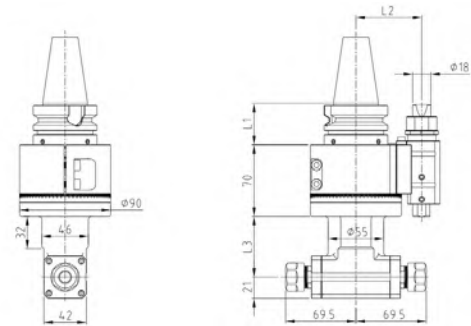
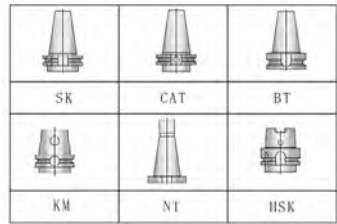
可选用驱动刀柄: SK, CAT, BT, KM, NT, HSK等



| Moel            | 输出<br>exportation | L1    | L2    | L3  | 功率<br>power | 最高转速<br>Maximum Speed | 最高扭矩<br>Maximum torqua | 转速比<br>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                    |

AG90-ER16\*2 系列

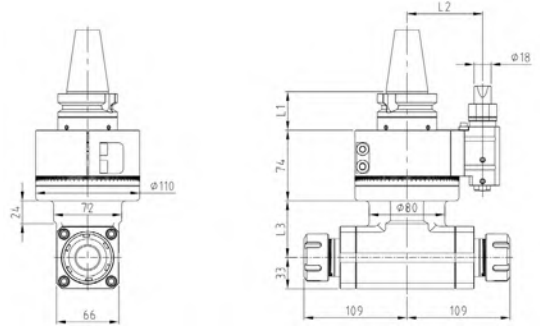
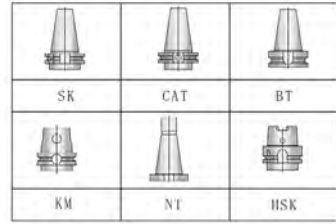
可选用驱动刀柄: SK, CAT, BT, KM, NT, HSK等



| Moel            | 输出<br>exportation | L1    | L2    | L3  | 功率<br>power | 最高转速<br>Maximum Speed | 最高扭矩<br>Maximum torqua | 转速比<br>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                    |

AG90-ER32\*2 系列

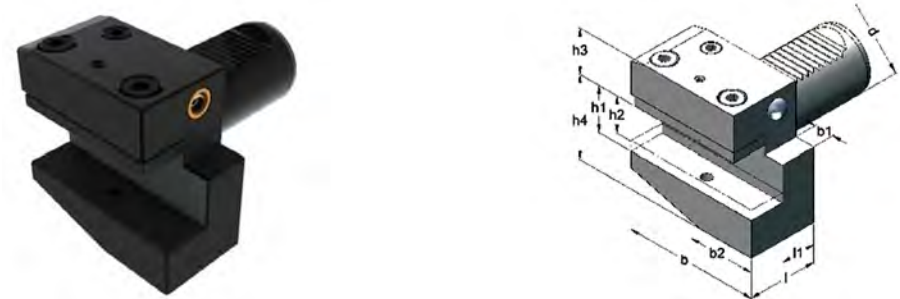
可选用驱动刀柄: SK, CAT, BT, KM, NT, HSK等



| Moel            | 输出<br>exportation | L1    | L2 | L3  | 功率<br>power | 最高转速<br>Maximum Speed | 最高扭矩<br>Maximum torqua | 转速比<br>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)

OLICNC®



| 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)

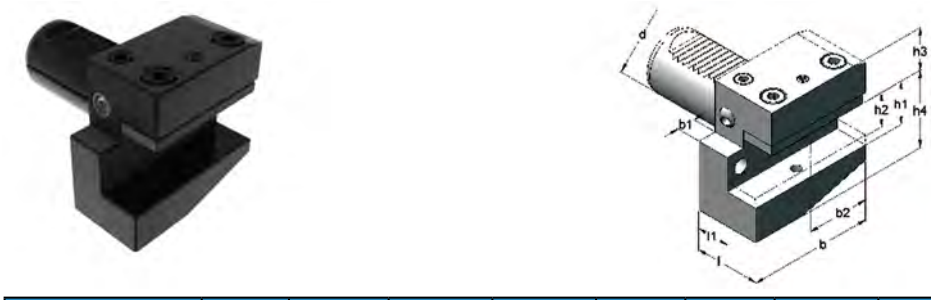
OLICNC®



| 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)

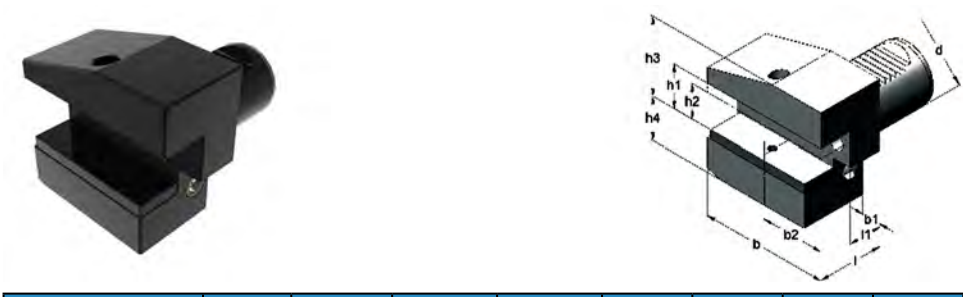
OLICNC®



| 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)

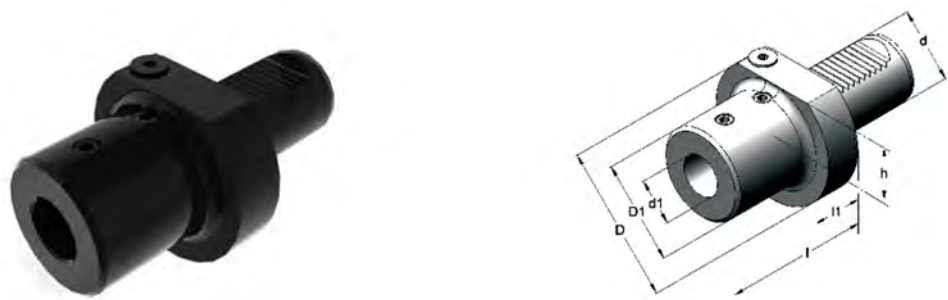
OLICNC®



| 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 |

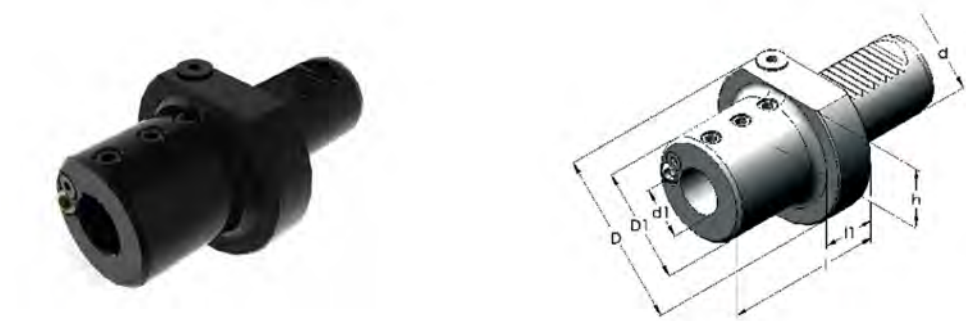
内径 U Drill 固定刀座 (E1 型式)  
Internal diameter U Drill fixed tool holder (E1 type)

OLICNC®



| Model       | d  | d1 | D  | D1 | l  | h    | l1 | 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 |





| 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 |



| 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 |

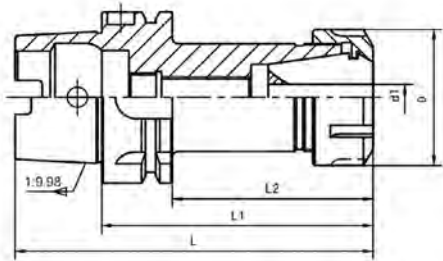
主轴拉力计 Spindle force gauge



机械油压式设计  
Mechanical hydraulic design  
压力设计 :1Kg/m2 =10Kg=100N  
Pressure design: 1Kg/m2=10Kg=100N

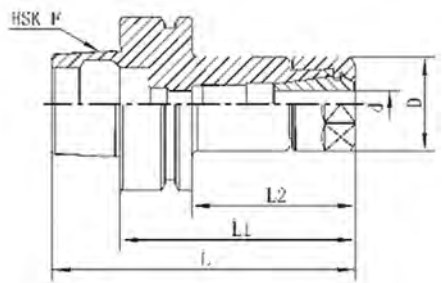
主轴拉力计是一款用于测量拉杆拉力大小的仪器，拉杆拉力对于评估机器质量是非常重要的，检测主轴拉力是否消耗，对于设备主轴稳定的一种简单方便的液压检测仪器。  
The spindle tension meter is an instrument used to measure the tension of the tie rod.The tension of therailing is very important to evaluate the quality of the machine. It is a simple and convenient hydraulictesting instrument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

| Model | 测量范围<br>Measuring range | 参考拉力范围<br>Reference tension range | 包装重量<br>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            |



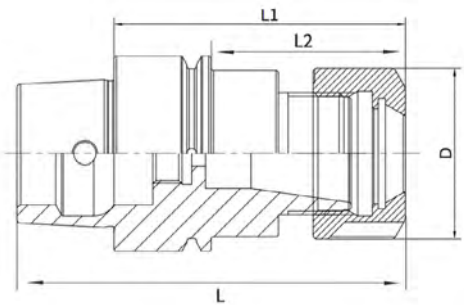
- 装入筒夹和更换刀具，必须把螺帽和本体螺纹清理干净，并添加润滑脂，否则会造成螺纹损坏
- 装置时筒夹必须先置入螺帽，再装入刀具，接着锁固本体
- 刀具置入筒夹内孔，必需超出筒夹有效夹持长度，避免不当锁紧，造成损坏
- A collet and replacement of cutting tools, screw nut and body must be clean, and add grease, Otherwise it will cause damage to the thread
- The device must be placed when the collet nut, and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



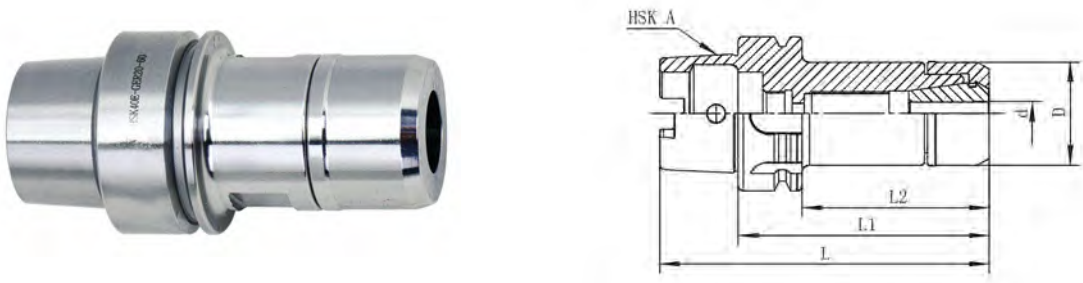
- 装入筒夹和更换刀具，必须把螺帽和本体螺纹清理干净，并添加润滑脂，否则会造成螺纹损坏
- 装置时筒夹必须先置入螺帽，再装入刀具，接着锁紧本体
- 刀具置入筒夹内孔，必需超出筒夹有效夹持长度，避免不当锁紧，造成损坏
- A collet and replacement of cutting tools, screw nut and body must be clean, and add grease, Otherwise it will ause damage tothe thread
- The device must be placed when the collet nut, and then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



|        | 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           |



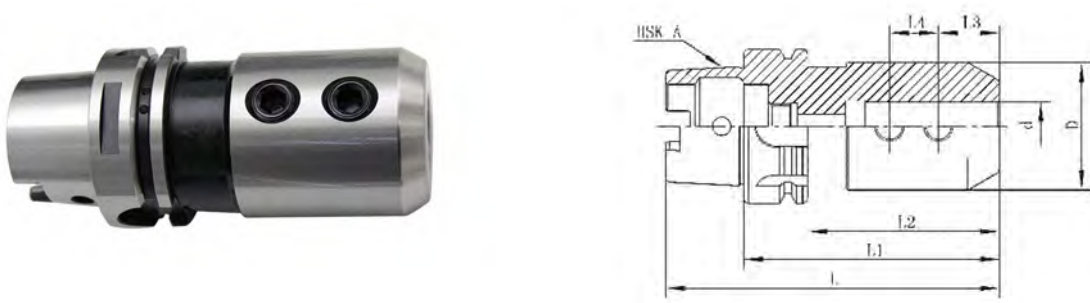


- 装入筒夹和更换刀具，必须把螺帽和本体螺纹清理干净，并添加润滑脂，否则会造成螺纹损坏
- 全圆无偏心螺帽设计，噪音低、风阻小，适合高速
- Into the collet and replacement of cutting tools, must clean up the thread of nut and ontology, and add grease, otherwise it will cause damage to the screw thread
- Full circle - no eccentric nut design, low noise, small wind resistance,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

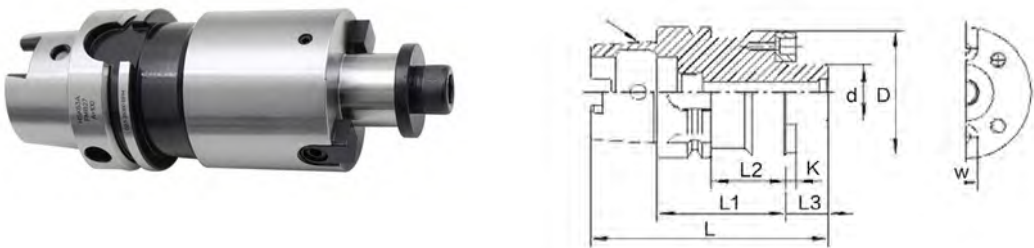
|        | Model    | L  | L1 | L2 | D    | d( 夹持范围 ) |
|--------|----------|----|----|----|------|-----------|
| HSK32E | GER16-50 | 66 | 50 | 30 | 27.5 | 1 ~ 10    |
|        | GER20-50 | 66 | 50 | 30 | 30.5 | 1 ~ 13    |
| HSK40E | GER16-65 | 85 | 65 | 45 | 27.5 | 1 ~ 10    |
|        | GER20-65 | 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



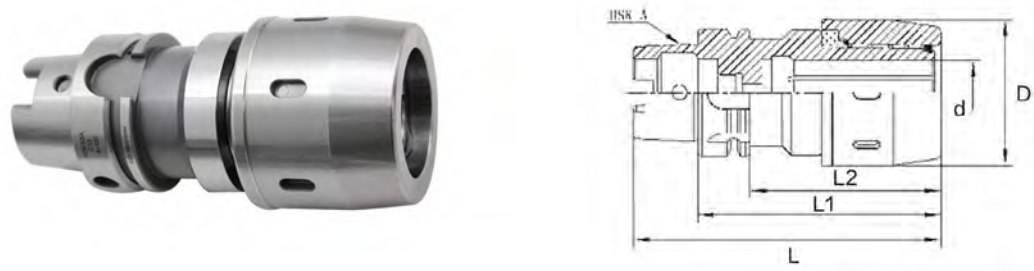
- 夹持孔径公差 H5
- Φ20 以内一只锁固螺钉，Φ25 以上两只锁固螺钉
- The clamping hole tolerance H5
- With less than 20 mm a locking screw, with a diameter of 25 mm above two locking screw

|        | 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 |



- 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

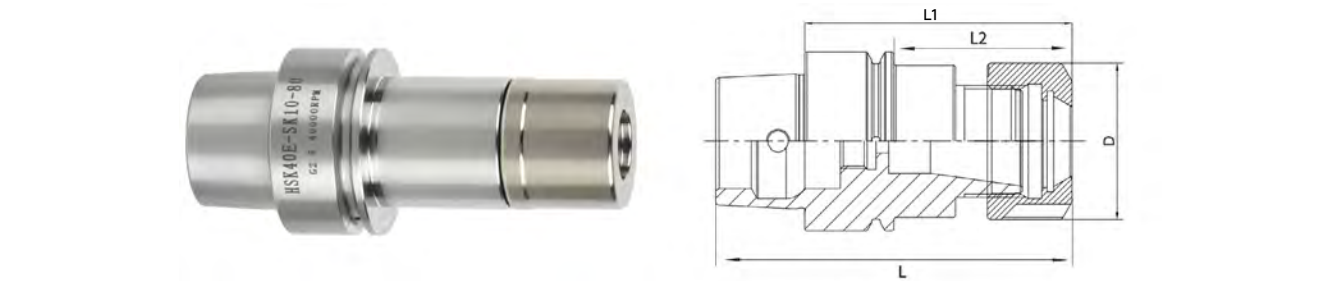
| Model   |         | L   | L1  | L2  | D  | d    |
|---------|---------|-----|-----|-----|----|------|
| HSK63A  | C32-120 | 152 | 120 | 94  | 73 | 6-32 |
|         | C32-150 | 182 | 150 | 124 | 73 | 6-32 |
| HSK100A | C32-120 | 170 | 120 | 91  | 73 | 6-32 |
|         | C32-165 | 215 | 165 | 136 | 73 | 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   |           | L   | L1  | L2  | θ  | D  | d( 夹持范围 ) | 推荐扭力 |
|---------|-----------|-----|-----|-----|----|----|-----------|------|
| HSK63A  | SDC6-95   | 127 | 95  | 69  | 6° | 14 | 3 ~ 6     | 5Nm  |
|         | SDC6-120  | 152 | 120 | 94  | 6° | 14 | 3 ~ 6     | 5Nm  |
|         | SDC6-150  | 182 | 150 | 124 | 6° | 14 | 3 ~ 6     | 5Nm  |
|         | SDC8-100  | 132 | 100 | 74  | 6° | 22 | 3 ~ 8     | 7Nm  |
|         | SDC8-120  | 152 | 120 | 94  | 6° | 22 | 3 ~ 8     | 7Nm  |
|         | SDC8-150  | 182 | 150 | 124 | 6° | 22 | 3 ~ 8     | 7Nm  |
|         | SDC12-120 | 152 | 120 | 94  | —  | 34 | 3 ~ 12    | 12Nm |
|         | SDC12-150 | 182 | 150 | 124 | —  | 34 | 3 ~ 12    | 12Nm |
| HSK100A | SDC6-110  | 160 | 110 | 81  | 6° | 14 | 3 ~ 6     | 5Nm  |
|         | SDC6-150  | 200 | 150 | 121 | 6° | 14 | 3 ~ 6     | 5Nm  |
|         | SDC8-120  | 170 | 120 | 91  | 6° | 22 | 3 ~ 8     | 7Nm  |
|         | SDC8-150  | 200 | 150 | 121 | 6° | 22 | 3 ~ 8     | 7Nm  |
|         | SDC12-120 | 170 | 120 | 91  | —  | 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           |

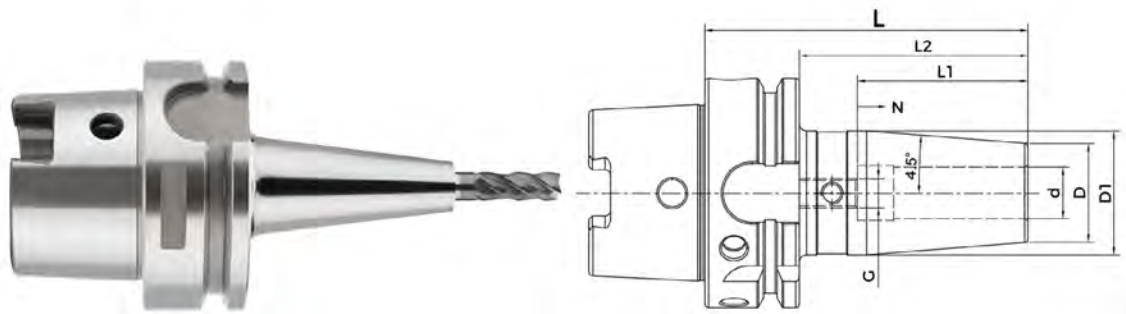


- 装入筒夹和更换刀具，必须把螺帽和本体螺纹清理干净，并添加润滑脂，否则会造成螺纹损坏
- 全圆无偏心螺帽设计，噪音低、风阻小，适合高速
- Into the collet and replacement of cutting tools, must clean up the thread of nut and ontology, and add grease, otherwise it will cause damage to the screw thread
- Full circle - no eccentric nut design, low noise, small wind resistance,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

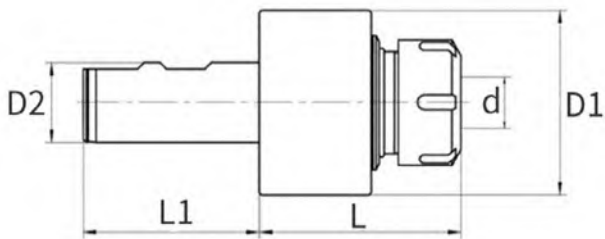
| Model  |           | L   | L1  | L2 | D    | d      |
|--------|-----------|-----|-----|----|------|--------|
| HSK32E | GSK06-50  | 66  | 50  | 30 | 19.5 | 2~6    |
|        | GSK10-50  | 66  | 50  | 30 | 27.5 | 3 ~ 10 |
| HSK40E | GSK06-65  | 85  | 65  | 35 | 19.5 | 2~6    |
|        | GSK10-65  | 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   |



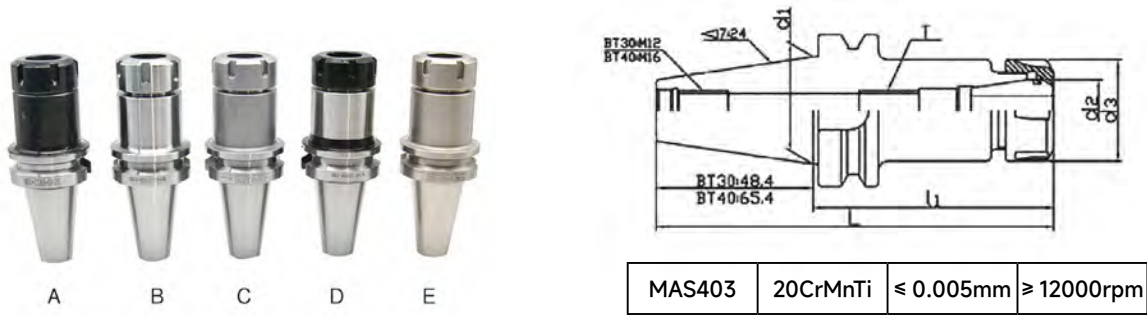
| Model               | D1 | D2 | D3 | L   | L1   | L2min | L2max | M   |
|---------------------|----|----|----|-----|------|-------|-------|-----|
| HSK40E-PHC06-70L    | 6  | 28 | 34 | 70  | 33   | 26    | 39    | M5  |
| HSK40E-PHC08-70L    | 8  | 30 | 34 | 70  | 33   | 28    | 39    | M5  |
| HSK40E-PHC10-75L    | 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    |          |

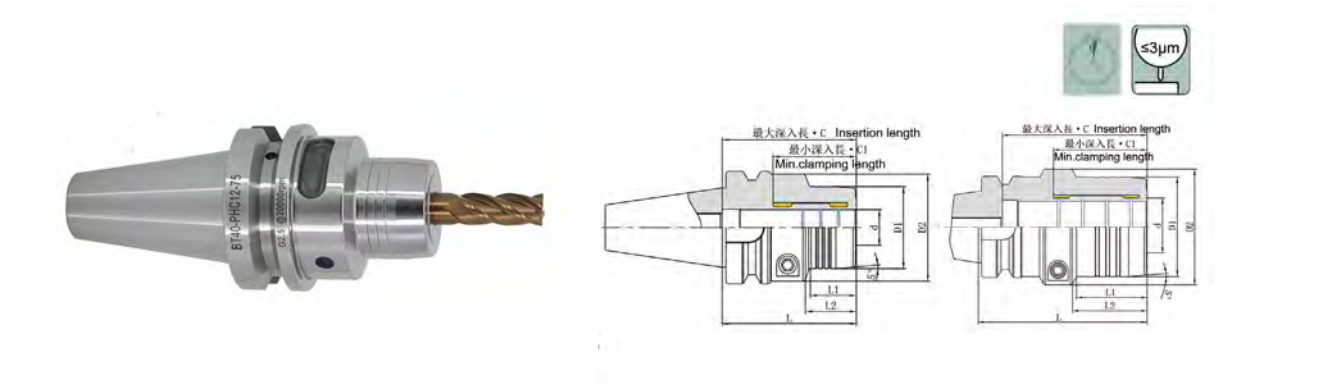


| Model           | L1  | d3 | d1    |
|-----------------|-----|----|-------|
| BT30-ER11A-70   | 70  | 19 | 31.75 |
| BT30-ER16A-70   | 70  | 28 | 31.75 |
| BT30-ER20A-70   | 70  | 34 | 31.75 |
| BT30-ER25UM-70  | 70  | 42 | 31.75 |
| BT30-ER32UM-100 | 100 | 50 | 31.75 |
| BT40-ER11A-100  | 100 | 19 | 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 |

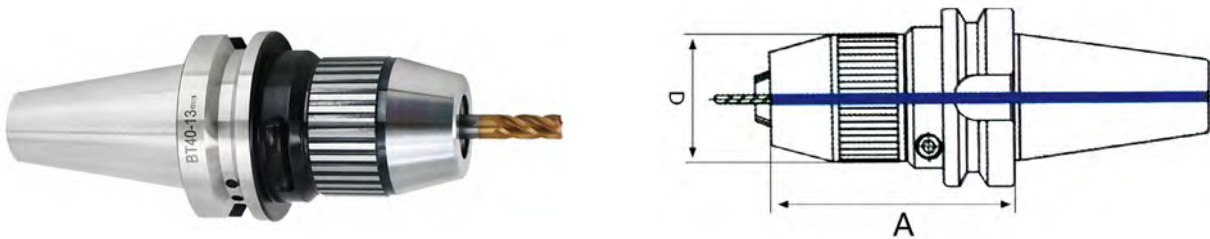


| Model          | Qty.&Sizes    | Bar Thread |
|----------------|---------------|------------|
| BT30-ER16-70L  | 8PCS(3-10mm)  | M12-1.75P  |
| BT30-ER32-70L  | 6PCS(6-20mm)  | M12-1.75P  |
|                | 11PCS(4-20mm) |            |
|                | 18PCS(3-20mm) |            |
| BT40-ER32-70L  | 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) |            |





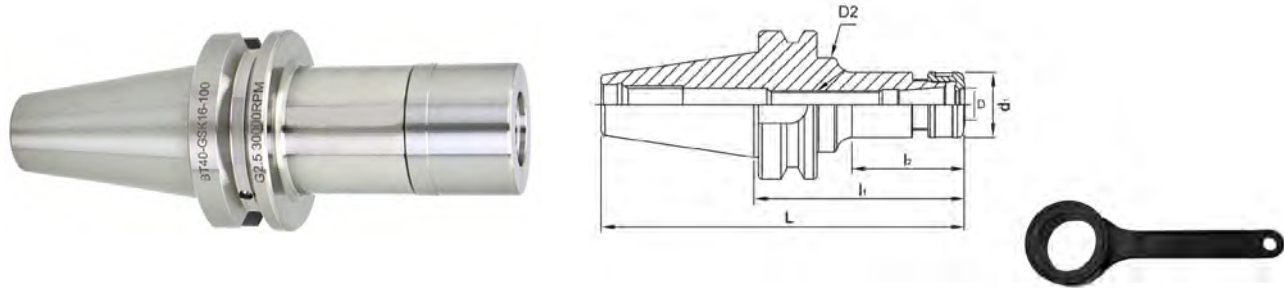
| Model          | Fig. | φd | φD <sup>1</sup> | φ D2 | L   | L1 | L2   | nsection Length C1 | Insection Length C |
|----------------|------|----|-----------------|------|-----|----|------|--------------------|--------------------|
| BT40-PHC06-75  | 1    | 6  | 28              | 46   | 75  | 30 | 34.5 | 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 |

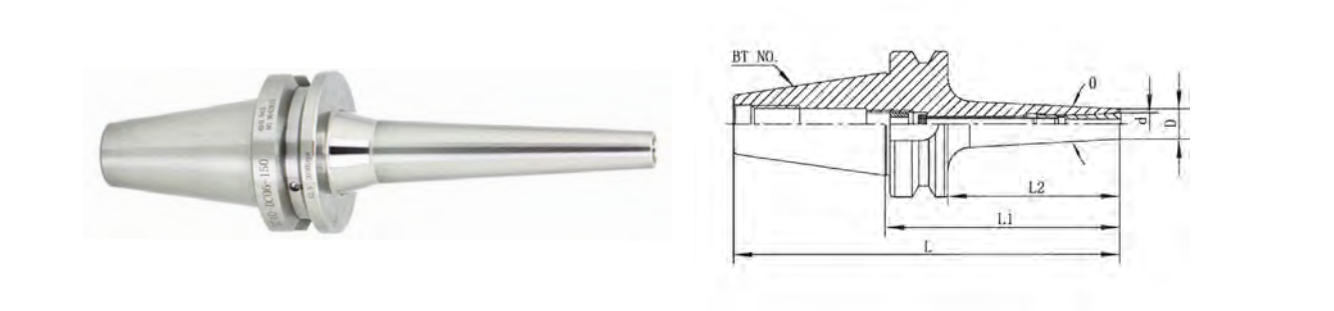
○此产品含有内冷式 ○ This product contains internal cooling.

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



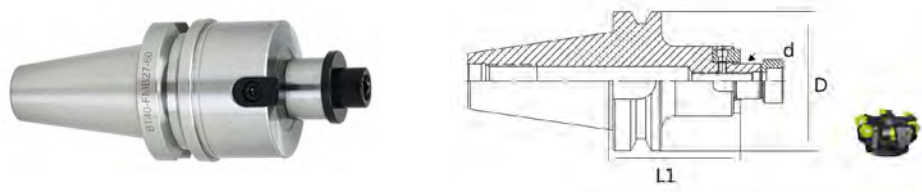
|        |          |           |            |
|--------|----------|-----------|------------|
| MAS403 | 20CrMnTi | ≤ 0.005MM | ≥ 30000RPM |
|--------|----------|-----------|------------|

| 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

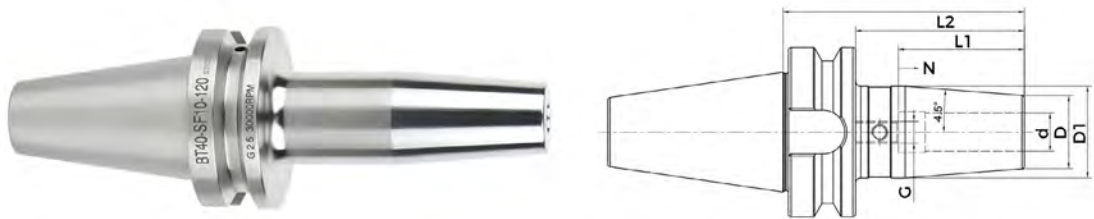
| Model |           | L     | L1  | L2  | θ  | D  | d    |
|-------|-----------|-------|-----|-----|----|----|------|
| BT30  | SDC06-60  | 108.4 | 60  | 38  | 6° | 14 | 3-6  |
|       | SDC06-90  | 138.4 | 90  | 68  | 6° | 14 | 3-6  |
|       | SDC08-60  | 108.4 | 60  | 38  | 6° | 22 | 3-8  |
|       | 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 |



| 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

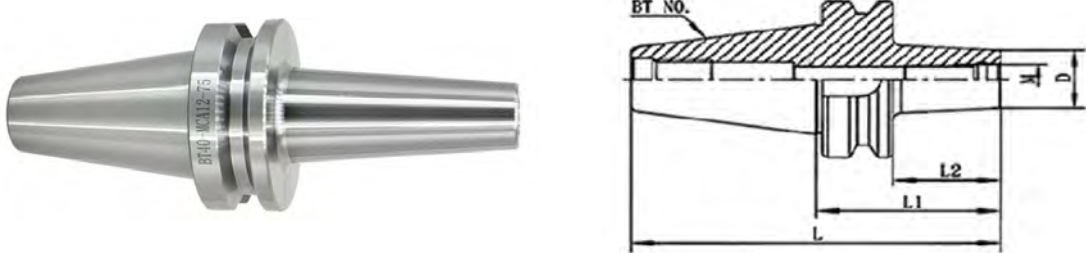
○标准转速: ≤ 25000RPM
- Material: 65Mn

○ 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 |



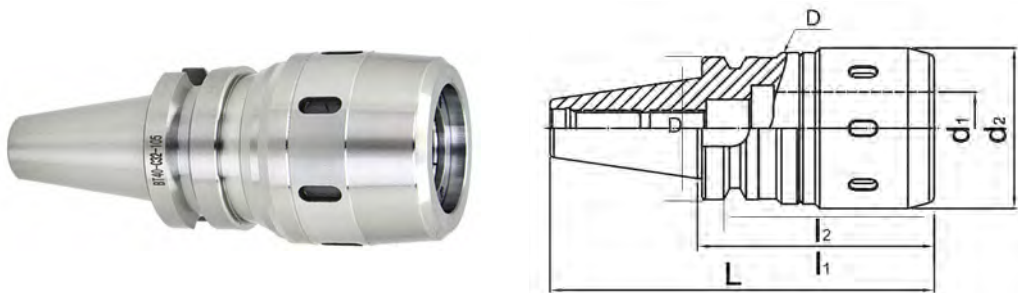
- 模块化组合, 刀头与刀柄螺纹连接沉头组合
- 刀柄直接连接刀头, 无需筒夹降低装夹精度公差
- 可换式刀头, 重复装夹精度高, 更适合开粗和精铣

|          |      |           |
|----------|------|-----------|
| 58-60HRC | 40Cr | ≤ 0.005mm |
|----------|------|-----------|

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  |    |     | 25 |    |
| BT30-C25-80  | 128.4 | 80  |    |     | 32 | 68 |
| BT30-C32-100 | 148.4 | 100 | 75 | 63  | 20 | 55 |
| BT40-C20-90  | 155.4 | 90  | 70 |     | 22 | 58 |
| BT40-C22-91  | 155.4 | 90  |    |     | 25 |    |
| BT40-C25-95  | 160.4 | 95  |    |     | 32 | 68 |
| BT40-C25-130 | 195.4 | 130 |    |     | 32 | 68 |
| BT40-C32-95  | 160.4 | 95  | 75 |     | 20 | 55 |
| BT40-C32-105 | 170.4 | 105 |    |     | 25 | 58 |
| BT40-C32-135 | 200.4 | 135 |    |     | 32 | 68 |
| BT50-C20-100 | 165.4 | 100 | 70 | 100 | 20 | 55 |
| BT50-C20-105 | 170.4 | 105 |    |     | 25 | 58 |
| BT50-C20-115 | 180.4 | 115 |    |     | 32 | 68 |
| BT50-C20-150 | 215.4 | 150 |    |     | 42 | 84 |
| BT50-C25-95  | 196.8 | 95  |    |     | 20 | 55 |
| BT50-C25-105 | 170.4 | 105 |    |     | 25 | 58 |
| BT50-C25-135 | 200.4 | 135 |    |     | 32 | 68 |
| BT50-C32-105 | 206.8 | 105 | 75 |     | 20 | 55 |
| BT50-C32-135 | 236.8 | 135 |    |     | 25 | 58 |
| BT50-C32-165 | 266.8 | 165 |    |     | 32 | 68 |
| BT50-C32-200 | 265.4 | 100 |    |     | 42 | 84 |
| BT50-C32-250 | 315.4 | 100 |    |     | 20 | 55 |
| BT50-C32-300 | 365.4 | 100 |    |     | 25 | 58 |
| BT50-C40-120 | 221.8 | 120 | 90 |     | 32 | 68 |
| BT50-C42-110 | 211.8 | 110 |    |     | 42 | 84 |
| BT50-C42-120 | 221.8 | 120 |    |     | 20 | 55 |
| BT50-C42-135 | 236.8 | 135 |    |     | 25 | 58 |
| BT50-C42-165 | 266.8 | 165 |    |     | 32 | 68 |

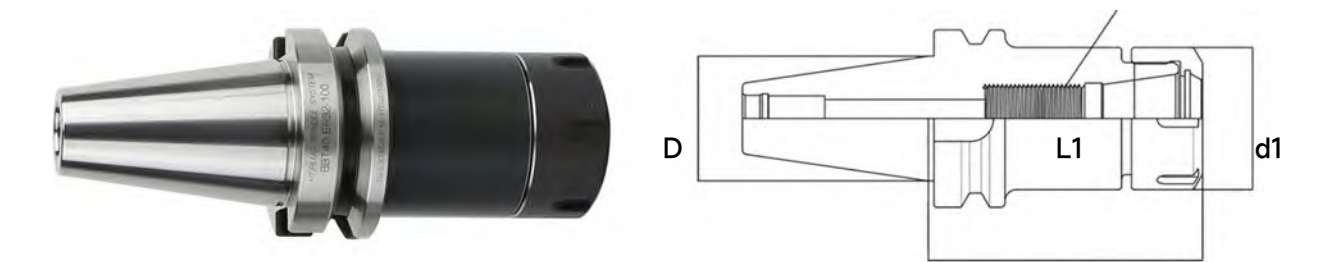


| Size of shank & Collets |               | Back Bar Thread | Wt.     |
|-------------------------|---------------|-----------------|---------|
| MT4                     | C32-75L       | M16x2.0P        | 2.5     |
| MT5                     | C32-75L       | M24x3.0P        | 3.5     |
|                         | 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 |

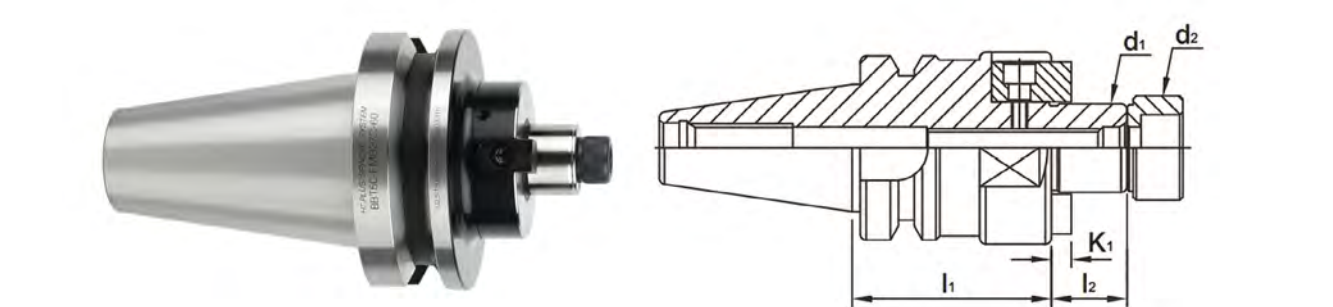
BT-CEM 混合插入式铣刀杆 BT-CEM Combine Shell End Mill Arbors



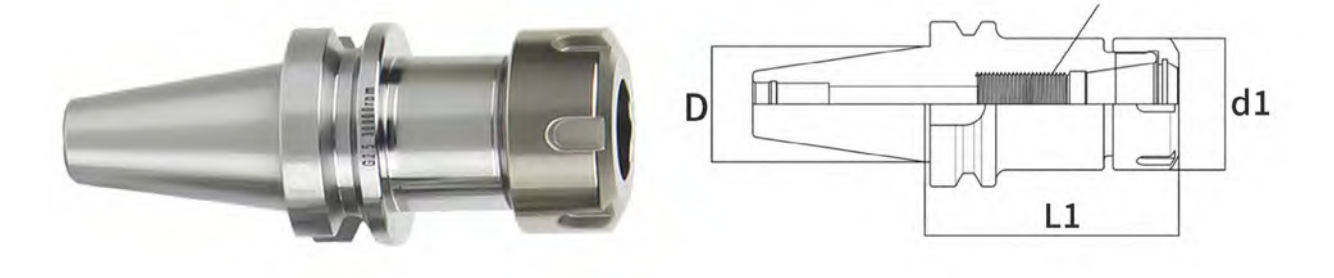
|               |          |            |    |    |       |    |
|---------------|----------|------------|----|----|-------|----|
| MAS403        | 20CrMnTi | ≥ 12000RPM |    |    |       |    |
| Model         |          |            | L1 | D  | D1    | d  |
| BT30-CEM16-50 |          |            | 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 |



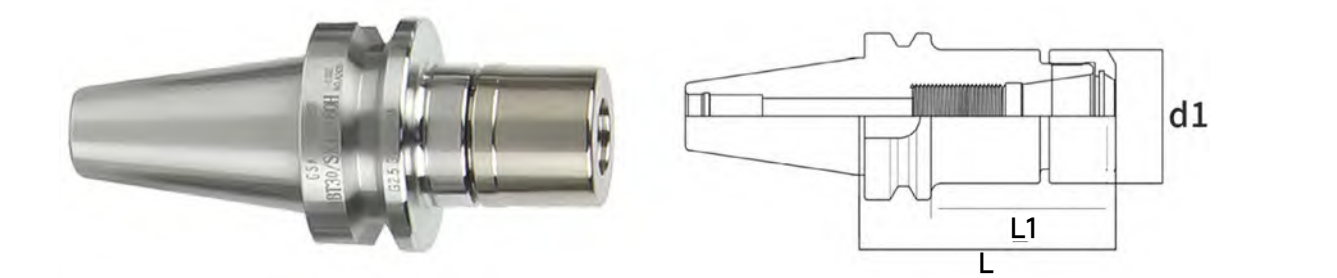
| Model          | L1  | d1 | D    | H   | Clamping range |
|----------------|-----|----|------|-----|----------------|
| BBT40-ER11-70  | 70  | 19 | 44.5 | 30  | 1-7            |
| BBT40-ER11-100 | 100 | 19 |      | 30  | 1-7            |
| BBT40-ER16-70  | 70  | 28 |      | 50  | 1-10           |
| 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-FMB27-60  | 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 |    |    |    |      |     |    |
| BBT40-FMB32-45  | 45  | 22 | 78 | 32 | 41   | 6.8 | 14 |
| 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 |    |    |    |      |     |    |
| BBT50-FMB22-400 | 400 |    |    |    |      |     |    |
| BBT50-FMB27-60  | 60  | 20 | 60 | 27 | 31.5 | 5.8 | 12 |
| BBT50-FMB27-100 | 100 |    |    |    |      |     |    |
| BBT50-FMB27-150 | 150 |    |    |    |      |     |    |
| BBT50-FMB27-200 | 200 |    |    |    |      |     |    |
| BBT50-FMB27-250 | 250 | 22 | 78 | 32 | 41   | 6.8 | 14 |
| BBT50-FMB32-60  | 60  |    |    |    |      |     |    |
| BBT50-FMB32-100 | 100 |    |    |    |      |     |    |
| BBT50-FMB40-60  | 60  |    |    |    |      |     |    |
| BBT50-FMB40-100 | 100 | 25 | 89 | 40 | 48   | 8.3 | 16 |
| BBT50-FMB40-105 | 105 |    |    |    |      |     |    |

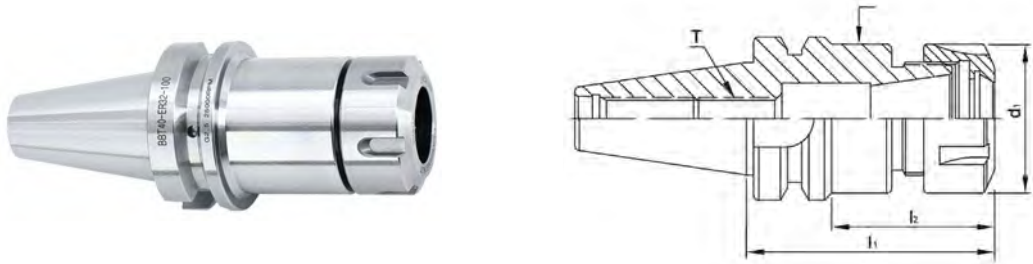


| Mode           | L1  | d1 | D     | H   | Clamping Range |
|----------------|-----|----|-------|-----|----------------|
| BBT40-ER11-70  | 70  | 19 | 44.45 | 30  | 1-7            |
| BBT40-ER11-100 | 100 | 19 |       | 30  | 1-7            |
| BBT40-ER16-70  | 70  | 28 |       | 50  | 1-10           |
| 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 |
|----------|-----------|---------------|

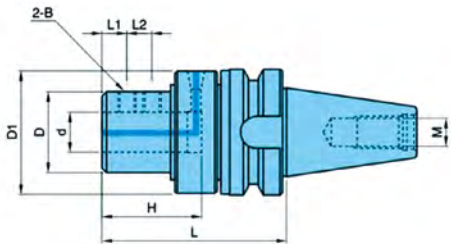
| Model          | 11  | 2   | d1 | d2 | d3 | T         |
|----------------|-----|-----|----|----|----|-----------|
| BBT30-ER16-50  | 50  | 27  | 28 | 16 | 28 | M10*1.5p  |
| BBT30-ER16-60  | 60  | 35  |    |    |    |           |
| BBT30-ER16-70  | 70  | 40  |    |    |    |           |
| BBT30-ER16-100 | 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 |    |    |    |           |
| BBT30-ER32-70  | 70  | 48  | 50 | 32 | 50 |           |
| 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  |    |    |    |           |



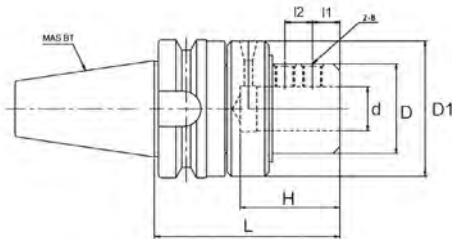
|          |          |           |               |
|----------|----------|-----------|---------------|
| 52-60HRC | 20CrMnTi | ≤ 0.005mm | G2.5 25000RPM |
|----------|----------|-----------|---------------|

●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

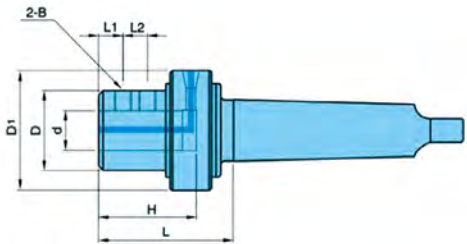
| Model          | 11  | 12     |        | d1   | d2   | d3 | T         |
|----------------|-----|--------|--------|------|------|----|-----------|
| BBT30-SK10-45  | 45  | 14.5   | φ3-φ10 | 30   | 27.6 |    | M12*1.75P |
| BBT30-SK10-60  | 60  | 25     |        |      |      |    |           |
| BBT30-SK10-90  | 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 |    |           |
| 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     |        |      |      |    |           |



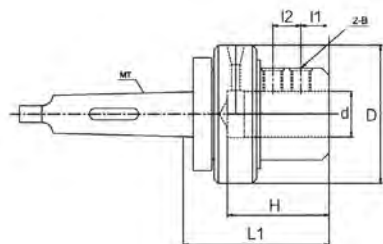
| Model          | L1  | L2    | L3 | H  | I1 | I2 | D   | D1    | d    | Weight |
|----------------|-----|-------|----|----|----|----|-----|-------|------|--------|
| BT40-OSL20-140 | 140 | 96.7  | 57 | 78 | 20 | 20 | φ83 | φ49.5 | 20   | 3.74   |
| BT40-OSL25-155 | 155 | 111.7 |    | 93 |    |    |     |       | 20   | 25     |
| 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 |        |



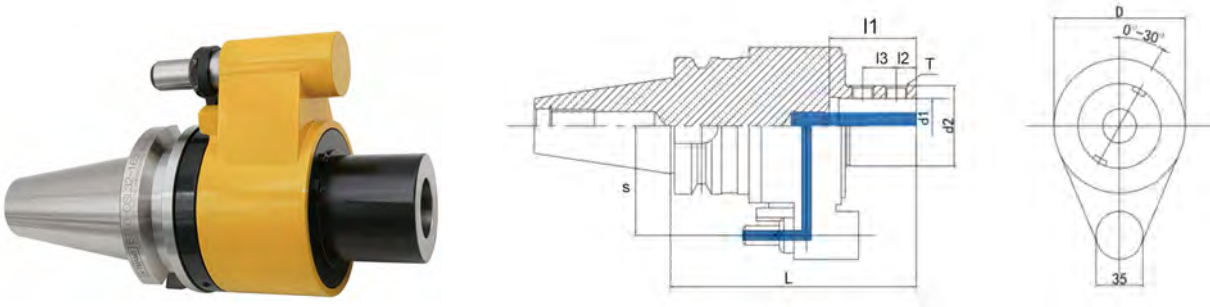
| Model          | d  | L   | D  | D1  | H  | I  | I2 | B       |
|----------------|----|-----|----|-----|----|----|----|---------|
| BT40-OMS20-105 | 20 | 105 | 50 | 78  | 50 | 20 | /  | M12     |
| BT40-OMS25-120 | 25 | 120 | 50 | 78  | 60 | 20 | 20 | M12     |
| BT40-OMS32-125 | 32 | 125 | 65 | 88  | 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     |



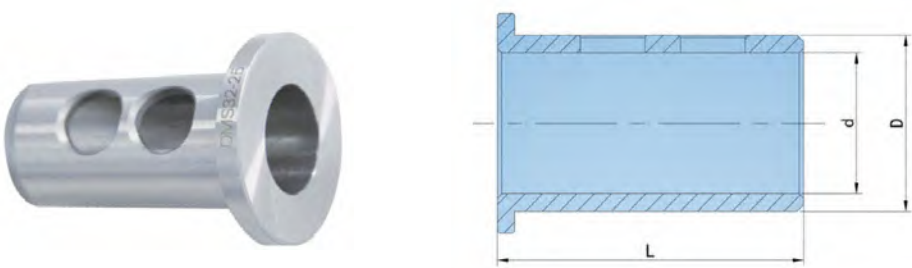
| Model         | L1  | I1 | I2 | H  | D   | D1    | d  | Weight |
|---------------|-----|----|----|----|-----|-------|----|--------|
| MT4-OSL20-115 | 115 | 20 | 20 | 78 | φ83 | φ49.5 | 20 | 3.56   |
| MT4-OSL25-130 | 130 |    |    | 93 |     |       | 25 | 5.62   |
| MT4-OSL32-135 | 135 |    |    |    | 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   |



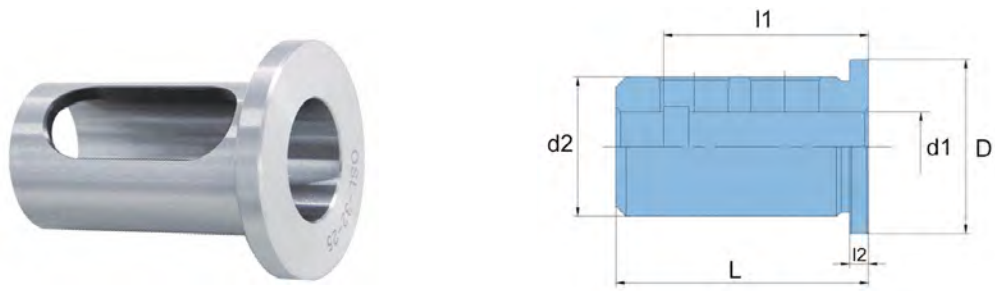
| Model         | d  | D  | I  | I2 | H  | L1  | B       |
|---------------|----|----|----|----|----|-----|---------|
| MT4-OMS20-080 | 20 | 83 | 20 | /  | 60 | 80  | M12     |
| MT4-OMS25-095 | 25 | 83 | 20 | 20 | 75 | 95  | M12     |
| MT4-OMS32-100 | 32 | 88 | 20 | 20 | 78 | 100 | M14     |
| MT5-OMS20-080 | 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 |



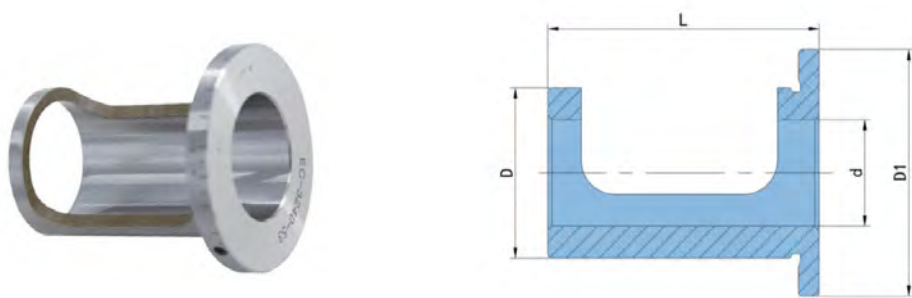
| Model          | L   | I1  | I2 | I3   | D        | d1        | d2   | S  | T         | Weight   |
|----------------|-----|-----|----|------|----------|-----------|------|----|-----------|----------|
| BT40-OSL16-150 | 150 | 48  | 25 | -    | 82       | 16        | 49.5 | 65 | M12-1.75P | 3.10     |
| 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 | -    | 98       | 16        | 59   | 80 | M14-2.0P  |          |
| BT50-OSL20-165 | 50  | 20  |    |      |          | M12-1.75P |      |    | 7.50      |          |
| BT50-OSL25-165 | 56  | 15  |    |      |          | 20        |      |    | 25        | M16-2.0P |
| 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   |

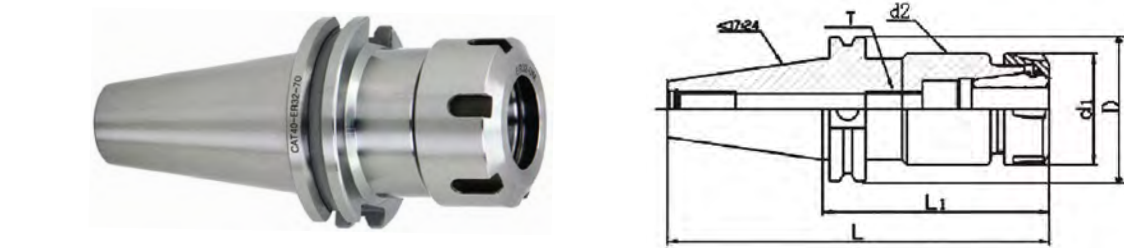


| Model     | L  | l1 | l2  | D  | d1   | d2 | Weight |
|-----------|----|----|-----|----|------|----|--------|
| OSL-20-16 | 54 | 48 | 5.5 | 30 | 16   | 20 | 0.07   |
| OSL-25-16 | 60 |    |     | 35 |      | 20 | 25     |
| OSL-25-20 |    | 56 |     |    | 0.15 |    |        |
| OSL-32-16 | 64 | 48 |     | 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   |



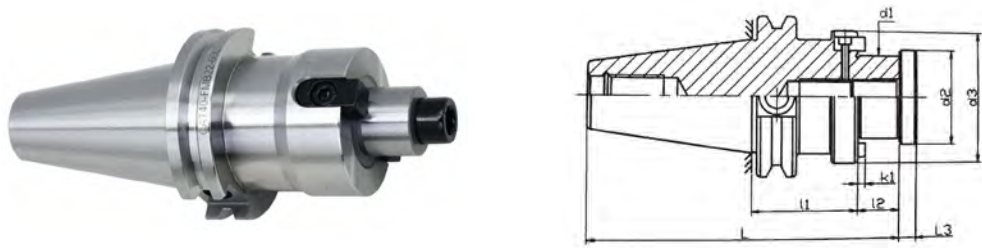
| Model   | L  | d  | D1 | D  | Weight |
|---------|----|----|----|----|--------|
| EC20-25 | 48 | 20 | 41 | 25 | 0.19   |
| EC25-32 | 60 | 25 | 49 | 32 | 0.21   |
| EC32-40 | 65 | 32 | 58 | 40 | 0.23   |
| EC40-50 | 76 | 40 | 68 | 50 | 0.24   |





|            |          |           |            |
|------------|----------|-----------|------------|
| ANSI B5.50 | 20CrMnTi | ≤ 0.005mm | ≥ 12000rpm |
|------------|----------|-----------|------------|

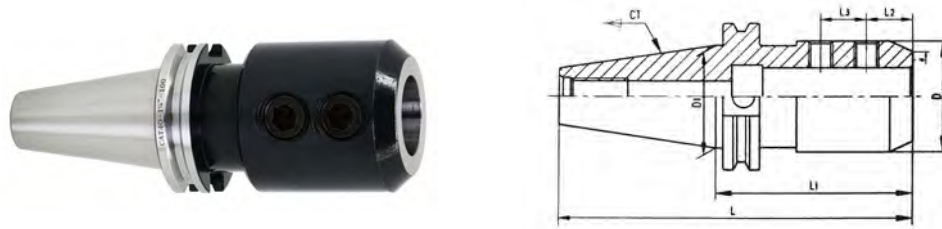
| Model            | L      | L1    | D      | d1     | d2    | Thread    | KGS  |
|------------------|--------|-------|--------|--------|-------|-----------|------|
| CAT40-ER16-2.76" | 5.447" | 2.76" | 2.5"   | 1.102" | 1.75" | M10*1.5P  | 1.05 |
| CAT40-ER16-4"    | 6.687" | 4"    |        | 1.102" |       | 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 |
|------------|----------|-----------|------------|

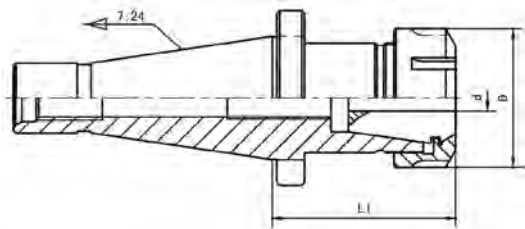
| Model             | L     | L2   | d1    | d3 |
|-------------------|-------|------|-------|----|
| CAT40-FMB1"-1.75" | 1.75" | 17.5 | 1"    | 60 |
| CAT40-FMB1.25"-2" | 2"    | 17.5 | 1.25" | 70 |
| CAT40-FMB1.5"-2"  | 2"    | 23.8 | 1.5"  | 85 |
| CAT50-FMB1.25"-4" | 4"    | 17.5 | 1.25" | 70 |
| 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"   |



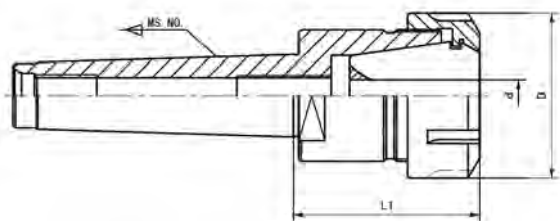
|         |          |
|---------|----------|
| DIN2080 | 20CrMnTi |
|---------|----------|

| 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  |



Type B

Type A



|        |        |
|--------|--------|
| 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   |

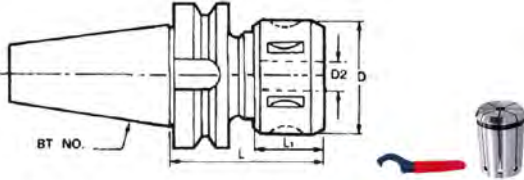


| Model     | Qty.&Clamping | Back Bar Thread | Wt. |
|-----------|---------------|-----------------|-----|
| NT30-ER25 | 7PCS(2-16mm)  | M12x1.75P       | 2.4 |
|           | 15PCS(4-16mm) |                 | 2.8 |
| NT30-ER32 | 6PCS(6-20mm)  | M12x1.75P       | 2.8 |
|           | 11PCS(4-20mm) |                 | 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 |



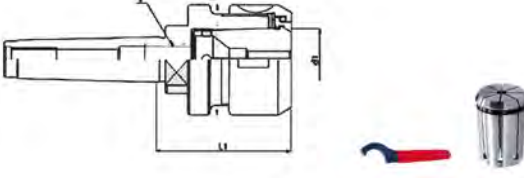
| Model    | Qty.&Clamping | Back Bar Thread | Wt. |
|----------|---------------|-----------------|-----|
| MT2-ER16 | 8PCS(3-10mm)  | M10x1.5P        | 1.0 |
| MT2-ER20 | 11PCS(3-13mm) |                 | 1.2 |
| MT2-ER25 | 7PCS(6-16mm)  |                 | 1.3 |
|          | 15PCS(2-16mm) |                 | 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) |                 | 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 |





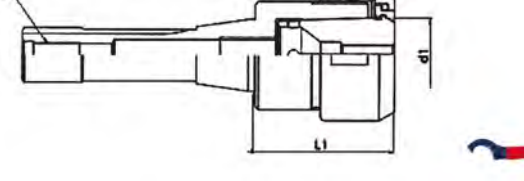
|        |          |            |
|--------|----------|------------|
| MAS403 | 20CrMnTi | ≥ 12000RPM |
|--------|----------|------------|

| 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    |                 |



| 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    |                 |

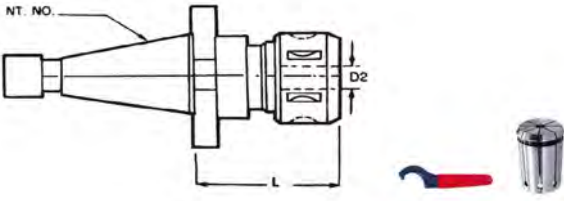
R8-OZ 铣刀柄 R8-OZ Collets Holders



| 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

OZ 筒夹套装 OZ Collets Sets

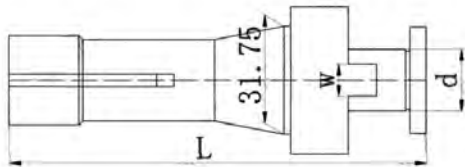


|        |          |            |
|--------|----------|------------|
| DN2080 | 20CrMnTi | ≥ 12000RPM |
|--------|----------|------------|

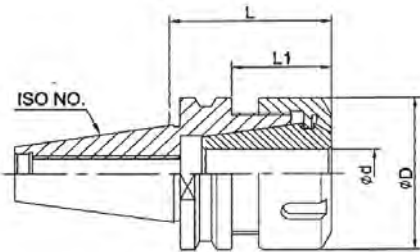
| Model         | D2   | L   | Collets | Back Bar Thread |
|---------------|------|-----|---------|-----------------|
| NT30-OZ25-70  | 3-25 | 70  | OZ25    | M12x1.75P       |
| NT30-OZ32-100 | 6-32 | 100 | OZ32    |                 |
| NT40-OZ25-70  | 3-25 | 70  | OZ25    | M16x2.0P        |
| NT40-OZ32-70  | 6-32 | 70  | OZ32    |                 |
| NT50-OZ25-80  | 3-25 | 80  | OZ25    | M24x3.0P        |
| NT50-OZ32-80  | 6-32 | 80  | OZ32    |                 |



|                  |       |        |                                                                                       |
|------------------|-------|--------|---------------------------------------------------------------------------------------|
| OZ25<br>(EOCA25) | 7PCS  | Metric | 6; 8; 10; 12; 16; 20; 25mm                                                            |
|                  |       | Inch   | 1/4" 5/16" 3/8" 1/2" 5/8" 3/4"1"                                                      |
|                  | 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"   |
| OZ32<br>(EOCA32) | 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" |

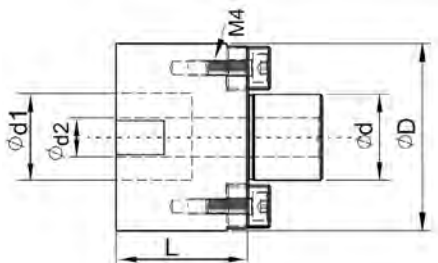


| Model    | d  | W  | L   | Thread | Hole | Face Mill specifications |
|----------|----|----|-----|--------|------|--------------------------|
| R8-FMB22 | 22 | 10 | 155 | M12    | 22   | 50/63                    |
| R8-FMB27 | 27 | 12 | 160 |        | 27   | 80                       |
| R8-FMB32 |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

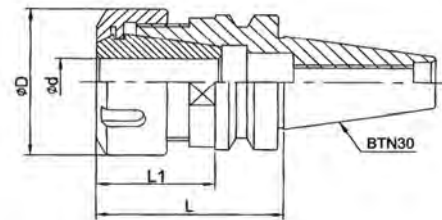


|           |          |            |
|-----------|----------|------------|
| ≤ 0.005MM | 20CrMnTi | ≥ 30000RPM |
|-----------|----------|------------|

| 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 |

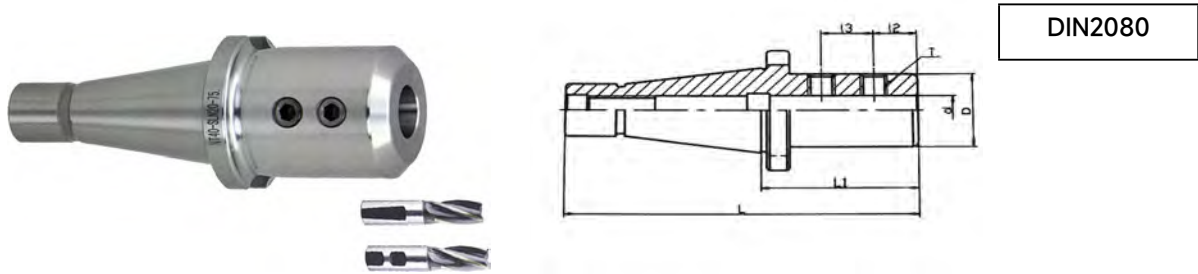


| Model          | d  | d1 | d2   | L   | D  |
|----------------|----|----|------|-----|----|
| C48-FMB22-50L  | 22 | 22 | 105  | 50  | 48 |
| C58-FMB22-50L  | 22 | 22 | 105  | 50  | 58 |
| C58-FMB22-100L | 22 | 22 | 105  | 100 | 58 |
| C58-FMB27-50L  | 27 | 27 | 125  | 50  | 58 |
| C58-FMB27-100L | 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 |

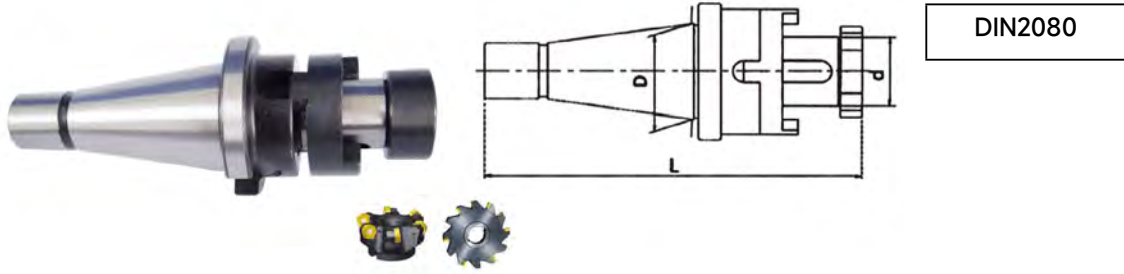


|           |          |            |
|-----------|----------|------------|
| ≤ 0.005MM | 20CrMnTi | ≥ 30000RPM |
|-----------|----------|------------|

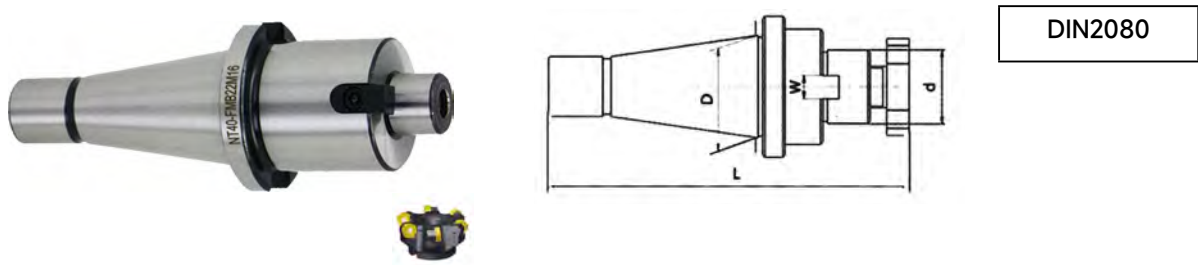
| Mode          | Capacity | D  | L  | L1 |
|---------------|----------|----|----|----|
| NBT30-ER16-70 | 1-10     | 28 | 60 | 38 |
| NBT30-ER20-70 | 1-13     | 34 |    | 38 |
| NBT30-ER25-70 | 1-16     | 42 |    | 38 |
| NBT30-ER32-70 | 3-20     | 50 |    | 38 |



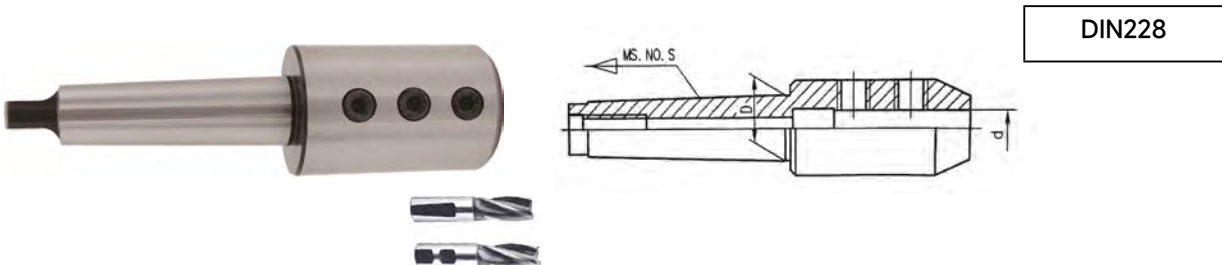
| Model         | L1  | D  | d  | 2  | l3 |
|---------------|-----|----|----|----|----|
| NT30-SL20-63  | 63  | 52 | 20 | 25 | —  |
| NT30-SL25-80  | 82  | 65 | 25 | 24 | 25 |
| NT40-SL20-63  | 63  | 52 | 20 | 25 | -  |
| NT40-SL25-80  | 80  | 65 | 25 | 24 | 25 |
| NT40-SL32-80  | 80  | 72 | 32 | 24 | 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 |



| 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 |



| 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 |



| 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<br>Can store 6 BT30 tool handles     | 每只刀座<br>配 2 只垫脚 |
| BT40 刀座   | NB40  |                      | 可存放 5 把 BT40 型刀柄<br>Can store 5 BT40 tool handles     |                 |
| BT50 刀座   | NB50  |                      | 可存放 4 把 BT50 型刀柄<br>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<br>Can store 6 HSK63 tool handles   | 每只刀座<br>配 2 只垫脚 |
| HSK80 刀座  | NH80  |                      | 可存放 5 把 HSK80 型刀柄<br>Can store 5 HSK80 tool handles   |                 |
| HSK100 刀座 | NH100 |                      | 可存放 4 把 HSK100 型刀柄<br>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            | CNS9811           |
| 规格 Specification | W720×D420×H1230MM |



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



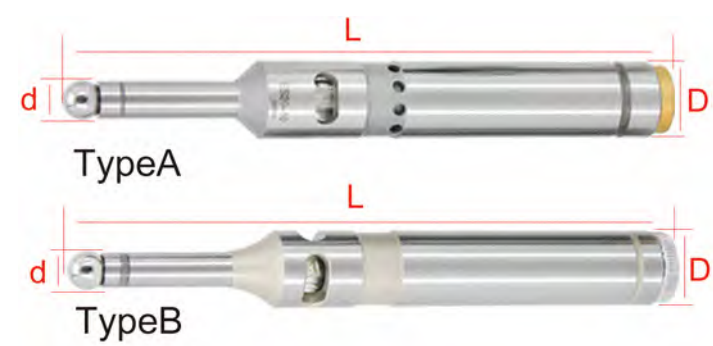
|                                                       |                  |       |       |       |       |        |
|-------------------------------------------------------|------------------|-------|-------|-------|-------|--------|
| Model                                                 | CNS-07           |       |       |       |       |        |
| 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<br>Total number of tools that can be installed | 40               | 35    | 30    | 35    | 35    | 30     |



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



|                                                       |                 |       |       |       |       |        |
|-------------------------------------------------------|-----------------|-------|-------|-------|-------|--------|
| 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<br>Total number of tools that can be installed | 40              | 35    | 30    | 35    | 35    | 30     |

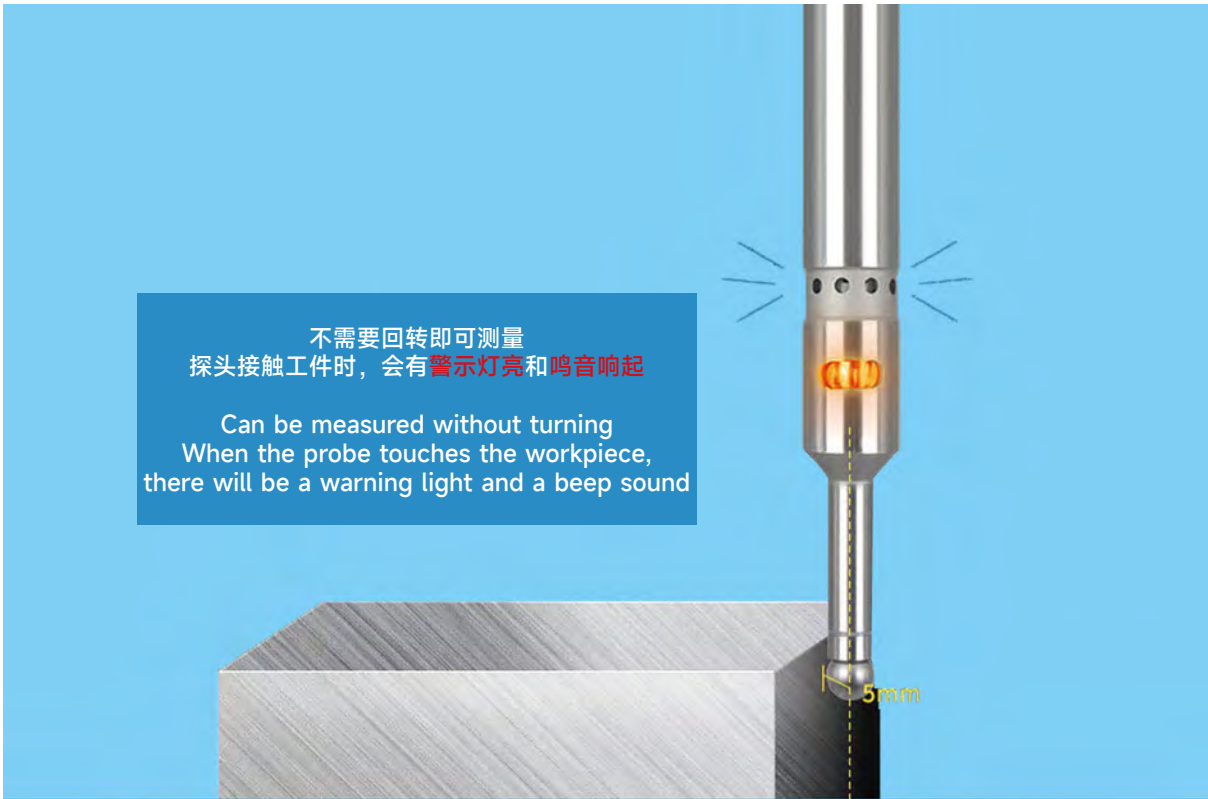


| Model | D  | L   | d  | wt.  |
|-------|----|-----|----|------|
| ES-20 | 20 | 160 | 10 | 0.28 |

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.

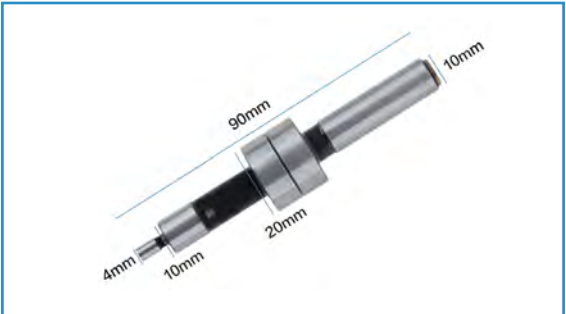
光电式分中棒使用方法 How to use the photoelectric centring rod



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

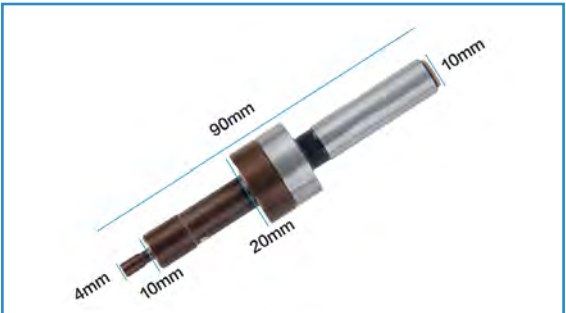
使机床主轴处于停止状态，控制测头缓慢接近工作面，当测头与工作面接触的瞬間，LED 指示灯发光同时发出提示音，此时机床主轴与工作平面的距离为 5mm  
Make the spindle of the machine tool stop and control the probe to approach the working surface slowly. When the probe is in contact with the working surface, the LED indicator lights up At the same time, a prompt sound is issued,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

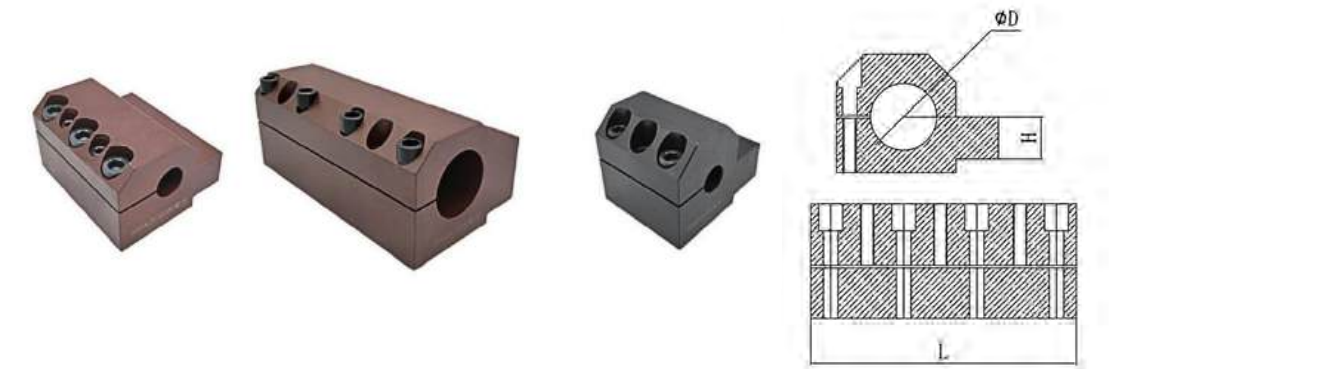




| Model         | HT | L1 | D  | H  | L   |
|---------------|----|----|----|----|-----|
| SBHA12-20     | 12 | 15 | 20 | 35 | 65  |
| SBHA16-16     | 16 | 20 | 16 | 44 | 65  |
| SBHA16-20     | 16 | 20 | 20 | 44 | 65  |
| SBHA16-25     | 16 | 20 | 25 | 44 | 65  |
| SBHA20-16     | 20 | 20 | 16 | 47 | 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 |

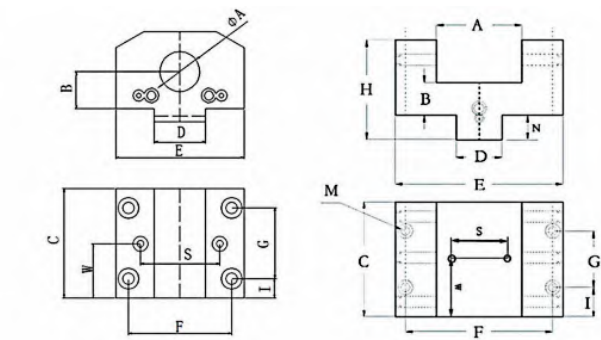
用于四工位车床电动刀架，可配合装夹导套。内径车刀、延长杆、麻花钻、U 钻等刀具。  
Used for four station lathe electric tool holder,can be fitted with clamp guide sleeve.Insidediameter turning tool, extension rod, twist drill,U drill and other tools.

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

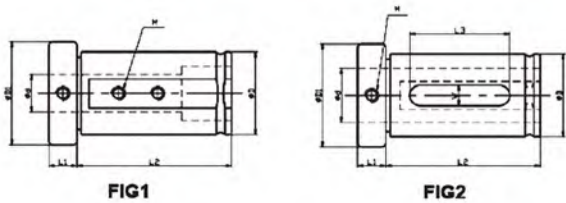
F72\*G45\*D16\*开50

F72\*G60\*D30\*开50

F88\*G56\*D40\*A32

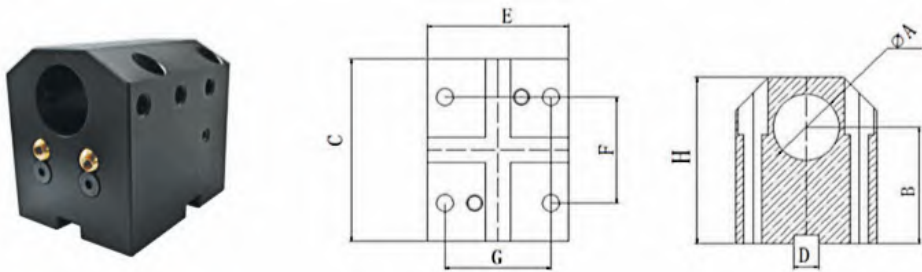
F76\*G35\*D25凹\*A32

刀库导套 Tool Holder Sleeves

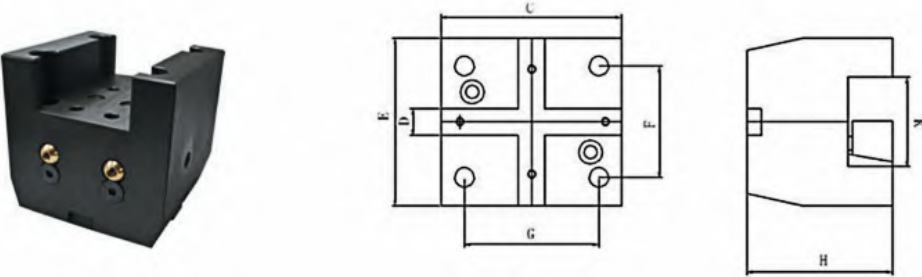


用途：用于数控加工中心（转塔）刀架夹持刀具。  
Function: Suitable to hold cylindrical shank tools on turret at CNC lathe.

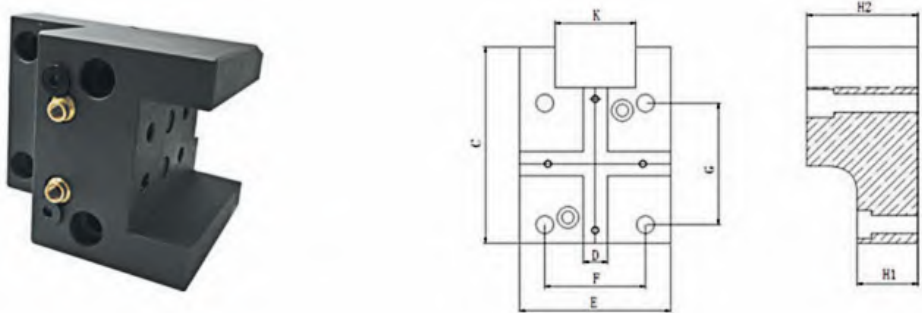
| Model     | D             | D1   | L1 | L2 | L3 | W  | M  | Fig |
|-----------|---------------|------|----|----|----|----|----|-----|
| D40(7PCS) | 8;10;12;16;20 | 46.5 | 15 | 80 |    |    | M8 | 1   |
|           | 25;32         | 46.5 | 15 | 80 | 65 | 12 |    | 2   |
| D32(6PCS) | 8;10;12;16    | 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   |



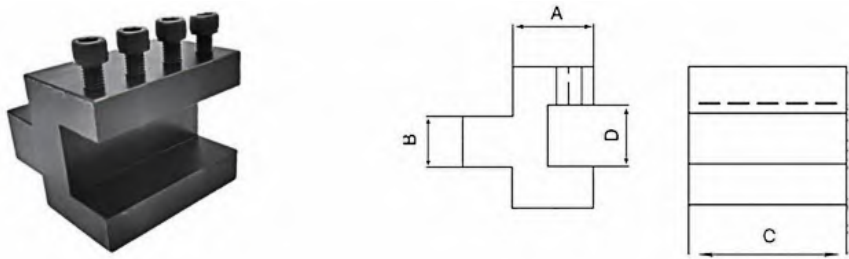
| Model | A  | B  | C   | D  | E  | F  | G  | H   |
|-------|----|----|-----|----|----|----|----|-----|
| BMT40 | 25 | 60 | 92  | 12 | 63 | 50 | 60 | 63  |
| BMT45 | 32 | 65 | 95  | 15 | 75 | 58 | 58 | 91  |
| BMT55 | 40 | 70 | 110 | 15 | 85 | 64 | 64 | 100 |
| BMT65 | 40 | 72 | 126 | 18 | 95 | 73 |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



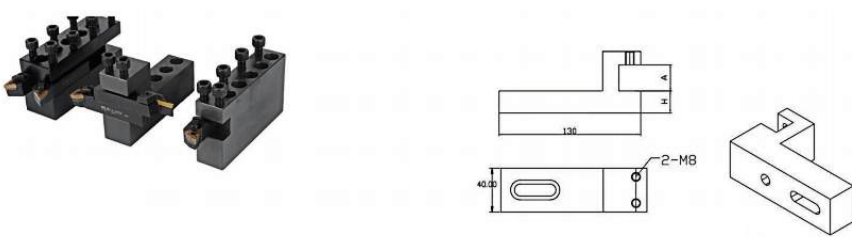
| Model | C   | D  | E  | F  | G  | K  |
|-------|-----|----|----|----|----|----|
| BMT40 | 97  | 12 | 75 | 50 | 60 | 40 |
| BMT45 | 105 | 15 | 75 | 58 | 58 | 40 |
| BMT55 | 126 | 15 | 85 | 64 | 64 | 50 |
| BMT65 | 131 | 18 | 97 | 73 | 70 | 50 |



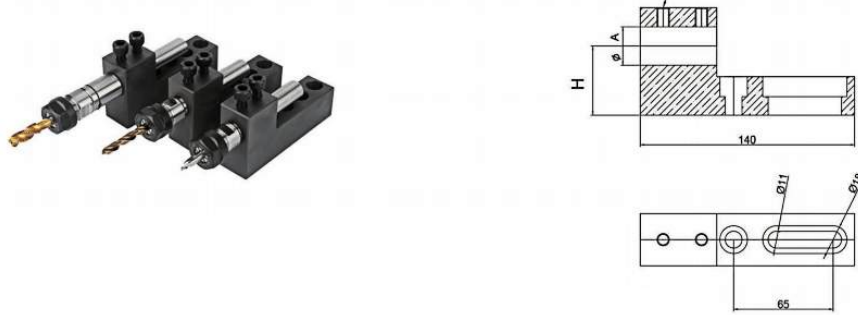
| Model | A  | B  | C   | D  |
|-------|----|----|-----|----|
| 20-25 | 35 | 20 | 85  | 25 |
| 25-32 | 45 | 25 | 85  | 30 |
| 32-40 | 62 | 32 | 100 | 50 |



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



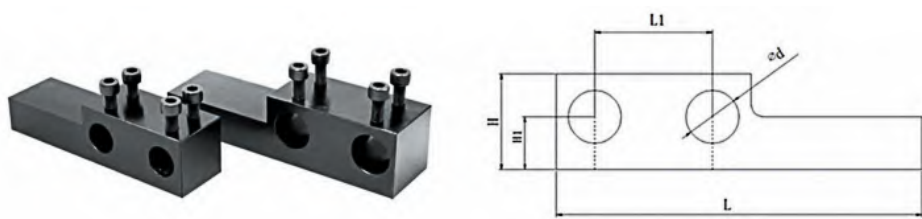
根据中心高和开口尺寸选择型号，支持非标订做  
Select model according to centerheight and opening size, supportnon-standard



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



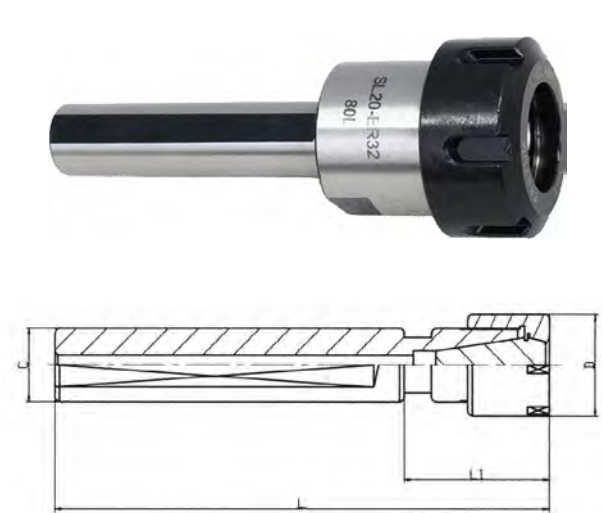
| Model No.      | L   | L1 | L2  | D  | D1 | KG   |
|----------------|-----|----|-----|----|----|------|
| SSTB16-16-ER16 | 112 | 32 | 80  | 16 | 28 | 0.26 |
| SSTB20-20-ER20 | 118 | 36 | 82  | 20 | 34 | 0.36 |
| SSTB22-22-ER20 | 118 | 36 | 82  | 22 | 34 | 0.4  |
| SSTB22-22-ER25 | 120 | 40 | 80  | 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 |



| 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.

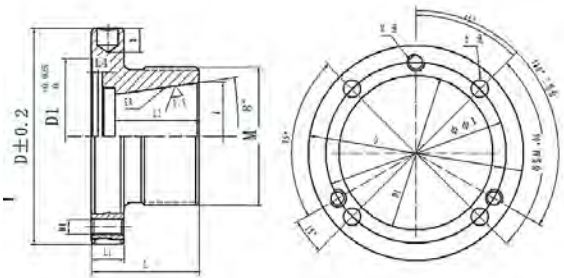
| Model            | L    | L1   | C        | D  |
|------------------|------|------|----------|----|
| SL20-ER11-60     | 76.6 | 16.6 | 20       | 16 |
| SL20-ER16-60     | 86.6 | 26.6 | 20       | 22 |
| SL20-ER20-65     | 97   | D    | 20       | 28 |
| SL25-ER16-65     | 97   | 32   | 25       | 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 |



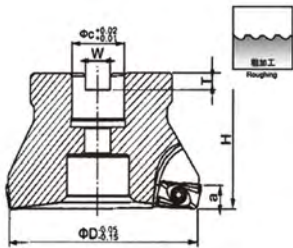
快速拉料，紧固不打滑  
Fast pulling material, fastening without slipping

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

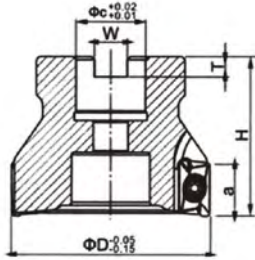
ER 夹头座 ER Chuck for Lathe Machine



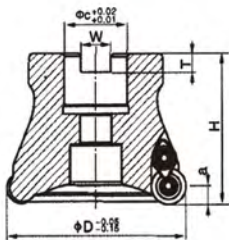
| Model    | D   | D1  | φφ1( 固定螺<br>丝中心距离 | M1<br>三均分 | φ<br>四均分 | L  | L1 | L3 装夹后总<br>高度 | L4<br>止口深度 | M( 螺纹 ) | 螺母外径      |
|----------|-----|-----|-------------------|-----------|----------|----|----|---------------|------------|---------|-----------|
| ER16-45  | 45  | 22  | 35                |           | 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        |



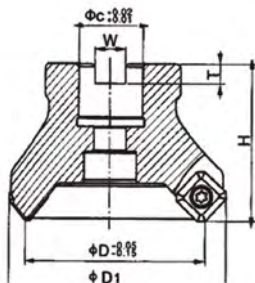
| Cat.NO            | Size(mm) |    |    |      |     |   | Circular Cushin | Applicable inserts | Clamp Screw | Wrench |
|-------------------|----------|----|----|------|-----|---|-----------------|--------------------|-------------|--------|
|                   | D        | C  | H  | W    | T   | a |                 |                    |             |        |
| 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 |                 |                    |             |        |



| Cat.NO             | Size(mm) |    |    |      |     |    | Circular Cushin | Applicable inserts | Clamp screw | Wrench |
|--------------------|----------|----|----|------|-----|----|-----------------|--------------------|-------------|--------|
|                    |          | 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 |                 |                    |             |        |



| Cat.NO           | Size(mm) |    |    |      |     |   | Circula<br>Cushin | Applicabl<br>nserts                 | Clamp<br>piece | Screw | Clamp |  |  |
|------------------|----------|----|----|------|-----|---|-------------------|-------------------------------------|----------------|-------|-------|--|--|
|                  | D        | C  | H  | W    | T   | a |                   |                                     |                |       |       |  |  |
| EMR-5R-50-22-4T  | 50       | 22 | 50 | 10.4 | 6.3 | 5 |                   | PRMW<br>1003 MO<br>PRMW<br>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<br>1204 MO                     | A-6R           |       |       |  |  |
| 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<br>1204 MO                     |                |       |       |  |  |
| EMR-6R-125-40-6T | 125      | 40 | 63 | 16.4 | 9   | 6 | FMB-40-SHIM       |                                     |                |       |       |  |  |



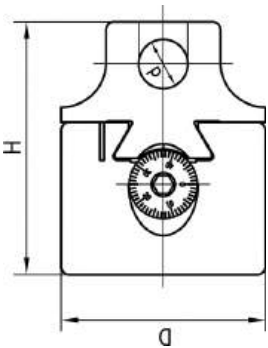
| Cat.NO         | Size(mm) |    |    |      |     | Circular Cushin | Applicable inserts | Clamp screw    | Wrench   |
|----------------|----------|----|----|------|-----|-----------------|--------------------|----------------|----------|
|                | D        | C  | H  | W    | T   |                 |                    |                |          |
| 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        |

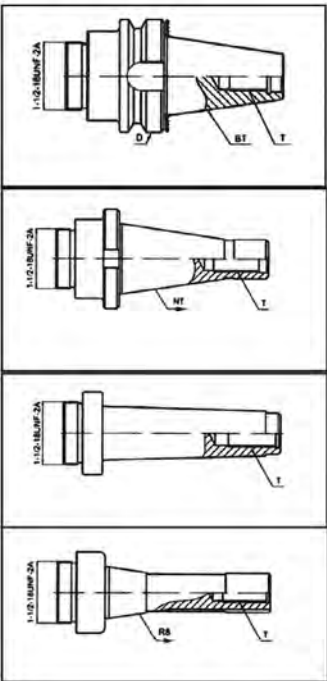


硬质合金镗杆 Boring cutters with replaceable inserts

| 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              |



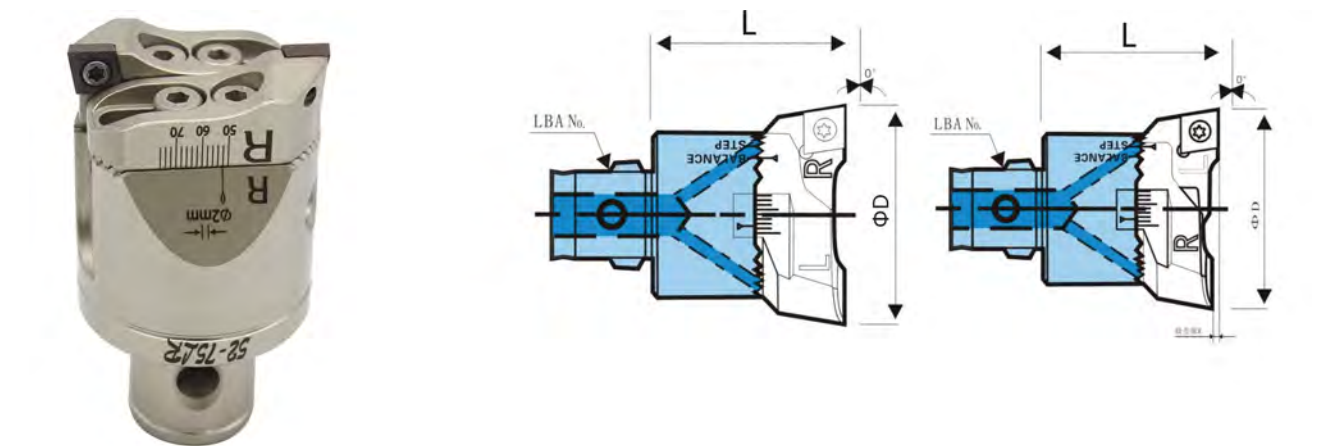
| Model | T          | L     | Wt.  |
|-------|------------|-------|------|
| BT40  | M16-2.0P   | 102   | 1.24 |
| BT50  | M24-3.0P   | 134   | 3.97 |
| NT30  | 1/2-UNC    | 102   | 0.6  |
| NT30  | M12-1.75P  | 102   | 0.6  |
| NT40  | 5/8-UNC    | 135   | 1.2  |
| NT40  | M16-2.0P   | 135   | 1.2  |
| 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



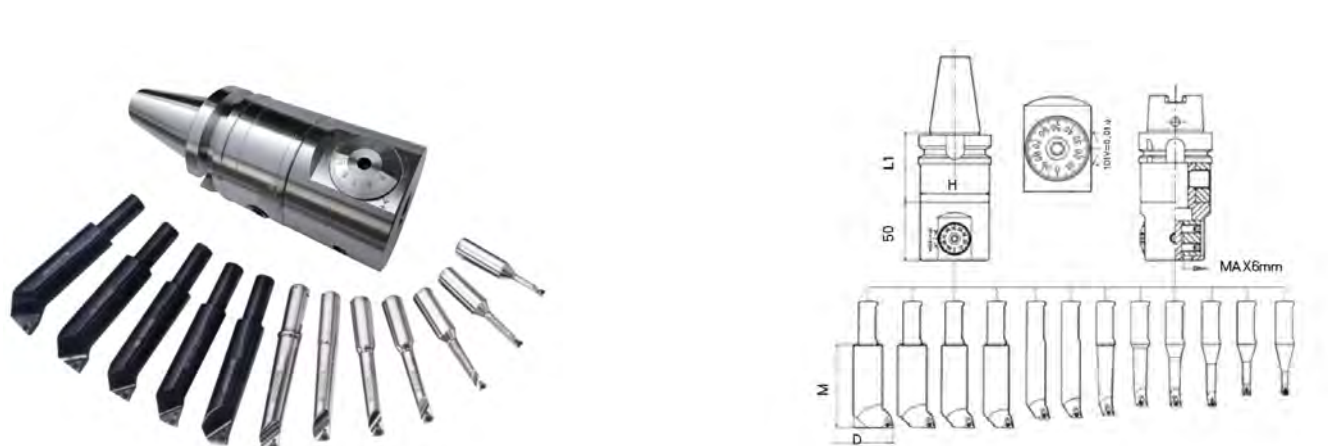
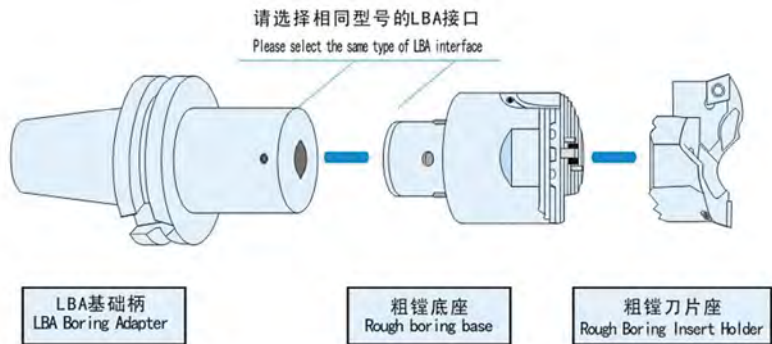




| 镗头型号<br>Specification | 刀柄接口<br>LBA No. | 镗孔范围<br>Boringrange φD | L    | 刀片型号 / 螺丝 / 扳手<br>Insert/Screw/Wrench | 重量<br>Weight(kg) |
|-----------------------|-----------------|------------------------|------|---------------------------------------|------------------|
| RBA20-25              | LBK1(11mm)      | 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              |

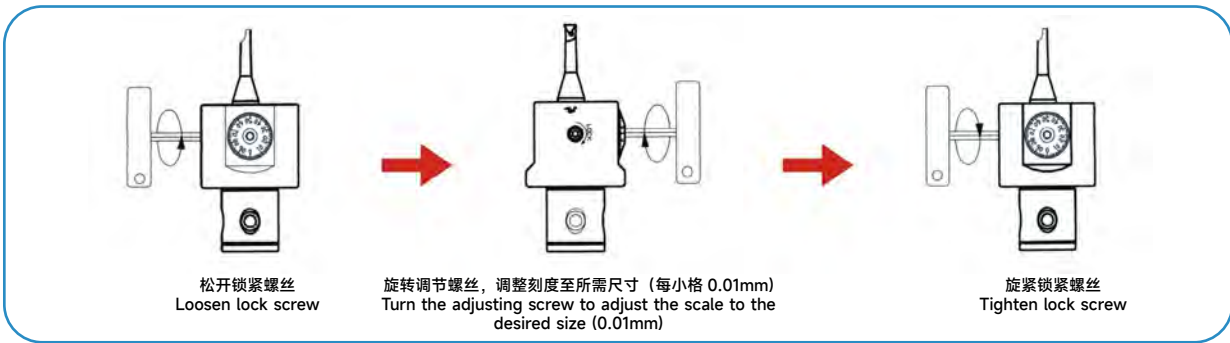


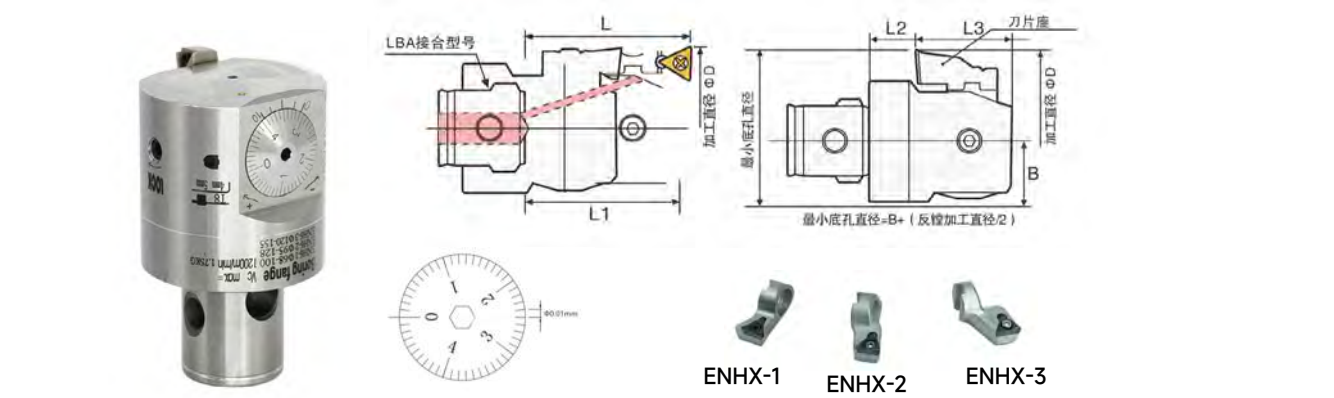
| 镗头型号<br>Specification | 镗头刀柄<br>Boringadapter | 镗孔范围<br>Boringrange φD | L    | 刀片型号 / 螺丝 / 扳手<br>Insert/Screw/Wrench | 重量<br>Weight(kg) |
|-----------------------|-----------------------|------------------------|------|---------------------------------------|------------------|
| RBA110-160            | BST                   | 110-160mm              | 99mm | CCMT12040*/M5.0/<br>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<br>φ0.01mm/scale division | 6.0mm       | 1.2       |

| 镗孔刀杆<br>Boring   | 范围<br>Range | 深度<br>Depth | 镗刀<br>片 Insert | 螺丝<br>Screw | 扳手<br>Wrench | 重量<br>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          |                |             |              | 0.08         |
| BJ1612-53        | 12-15       | 53          | TPGH0902..L    | SB2TR-M2.5  | T8           | 0.10         |
| BJ1614-60        | 14-17       | 60          |                |             |              | 0.10         |
| BJ1616-68        | 16-21       | 68          |                |             |              | 0.12         |
| BJ1620-83        | 20-26       | 83          | TPGH1103..L    | SB-3TR-M3   | T8           | 0.20         |
| BJ1625-90        | 25-31       | 90          |                |             |              | 0.30         |
| BJ1630-90        | 30-36       | 90          |                |             |              | 0.32         |
| BJ1635-90        | 35-41       | 90          |                |             |              | 0.32         |
| BJ1640-90        | 40-46       | 90          |                |             |              | 0.38         |
| BJ1645-90        | 45-51       | 90          |                |             |              | 0.38         |
| 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<br>Specification | 刀片座<br>Insert holder | 正镗                           |        |         | 反镗                           |      |      | 刀柄接口<br>LBANo. | 刀片型号螺丝 / 扳手<br>Insert/Screw/Wrench | 重量<br>Weight (kg) |
|-----------------------|----------------------|------------------------------|--------|---------|------------------------------|------|------|----------------|------------------------------------|-------------------|
|                       |                      | 镗孔范围<br>Boring range φD (mm) | L (mm) | L1 (mm) | 镗孔范围<br>Boring range 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                      |      |      |                |                                    |                   |

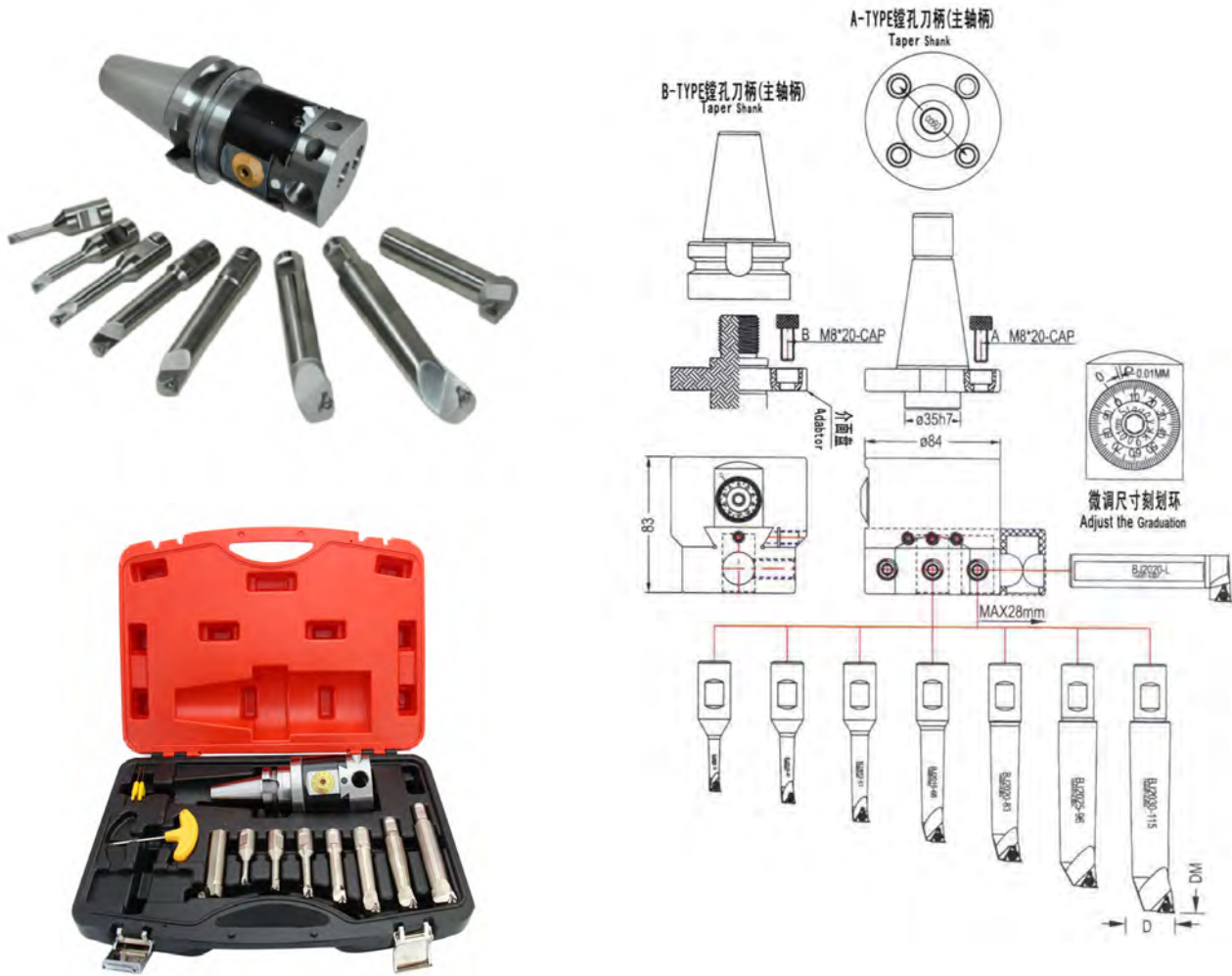
○ 每一个镗头本体均配有三个不同加工范围的刀片座，来扩大本体的加工尺寸。  
○ Each boring head is equipped with three different insert holders to extend boring ranges.  
○ CBA 精密镗头均具备内冷却功能，延长刀片使用寿命。  
○ The service life of insert will be prolonged with internal cooling design.  
○ 每格调整尺寸为直径 0.01mm。  
○ Each division for the adjustment is 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.1 insert 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<br>Specification              | 形状图<br>Figure | 对应镗头<br>Boring head | 镗孔范围<br>Boring range |
|------------------------------------|---------------|---------------------|----------------------|
| 刀片座 ENH1-1<br>Insert holder Enh1-1 | 对应刀片<br>TP08  | CBA20               | 20-26mm              |
| 刀片座 ENH1-2<br>Insert holder Enh1-2 |               |                     | 25-31mm              |
| 刀片座 ENH1-3<br>Insert holder Enh1-3 |               |                     | 30-36mm              |
| 刀片座 ENH2-1<br>Insert holder Enh2-1 |               | CBA25               | 25-33mm              |
| 刀片座 ENH2-2<br>Insert holder Enh2-2 |               |                     | 32-40mm              |
| 刀片座 ENH2-3<br>Insert holder Enh2-3 |               |                     | 39-47mm              |
| 刀片座 ENH3-1<br>Insert holder Enh3-1 |               | CBA32               | 32-42mm              |
| 刀片座 ENH3-2<br>Insert holder Enh3-2 |               |                     | 41-51mm              |
| 刀片座 ENH3-3<br>Insert holder Enh3-3 |               |                     | 50-60mm              |
| 镗头型号<br>Specification              | 形状图<br>Figure | 对应镗头<br>Boring head | 镗孔范围<br>Boring range |
| 刀片座 ENH4-1<br>Insert holder Enh4-1 | 对应刀片<br>TP08  | CBA40               | 40-55mm              |
| 刀片座 ENH4-2<br>Insert holder Enh4-2 |               |                     | 51-66mm              |
| 刀片座 ENH4-3<br>Insert holder Enh4-3 |               |                     | 64-79mm              |
| 刀片座 ENH5-1<br>Insert holder Enh5-1 | 对应刀片<br>TC11  | CBA52               | 52-75mm              |
| 刀片座 ENH5-2<br>Insert holder Enh5-2 |               |                     | 70-93mm              |
| 刀片座 ENH5-3<br>Insert holder Enh5-3 |               |                     | 89-112mm             |
| 刀片座 ENH6-1<br>Insert holder Enh6-1 |               | CBA68               | 68-100mm             |
| 刀片座 ENH6-2<br>Insert holder Enh6-2 |               |                     | 94-125mm             |
| 刀片座 ENH6-3<br>Insert holder Enh6-3 |               |                     | 118-150mm            |





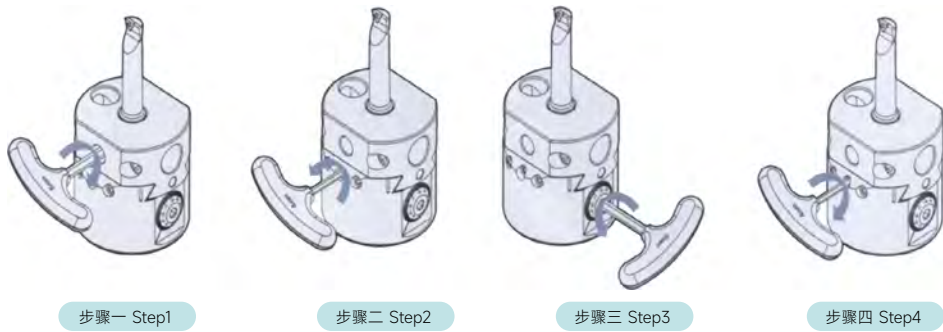
| 八只套装<br>Eightsuit<br>NBJ20-8pcs | 镗刀型号 Boring bar type |            |             |
|---------------------------------|----------------------|------------|-------------|
|                                 | NBJ2010-40           | NBJ2016-68 | NBJ20-20L   |
|                                 | NBJ2008-32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

| 型号<br>Model       | 镗孔范围<br>Boring range | 组合系统 - 主轴柄规格<br>Spinde models | 内附零件<br>Items                                                                                                                                                                                               | 重量<br>Weight |
|-------------------|----------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| BT40-NBH2084-8pcs | 8-280                | MAS403-BT40-NBH2084           | 1.NBH- 主轴刀柄<br>一把 One boring<br>adapter<br>NBH2084.<br>2.NBH2084 精<br>密镗刀头一支<br>One<br>micro boring<br>head NBH2084<br>3.NBJ20 精镗<br>刀柄八只 Eight<br>micro<br>boring bars<br>NBJ20<br>4. 扳手六只 Six<br>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

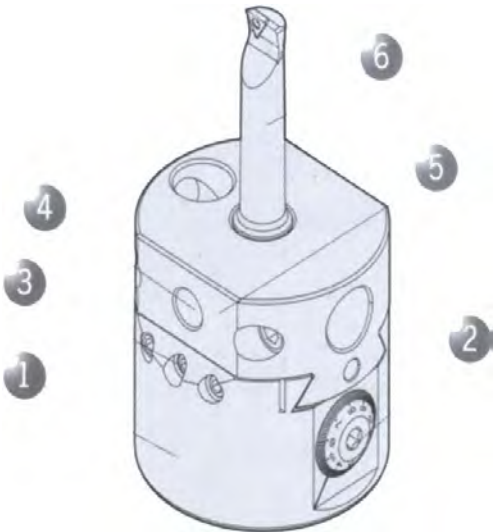
- 步骤一：选择加工范围内刀杆（图），置于镗头安装孔内（A图B图C图），使刀杆削平面对准固定螺丝紧固方向，并确认刀尖处于镗头微调下方向；
- 步骤二：松开微调锁紧螺钉（图）逆时针旋转；
- 步骤三：调整微调旋钮（图）逆时针使加工尺寸增大，反之减少。调整尺寸时，请按同方向微调，以确保微调精度。精度为每小格 0.01mm
- 步骤四：微调至所需尺寸后，以适当扭力锁紧微调锁紧螺钉（图）顺时针旋转。
- Step1: Hold right boring bar(See figure 6) in right hole(See pic AB.C . Make sure weldon part of bar 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



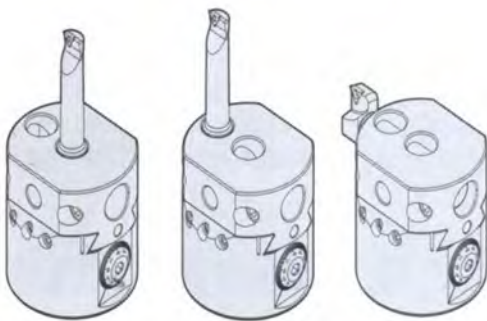
产品结构 /Manuals

- 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-D280mm）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.



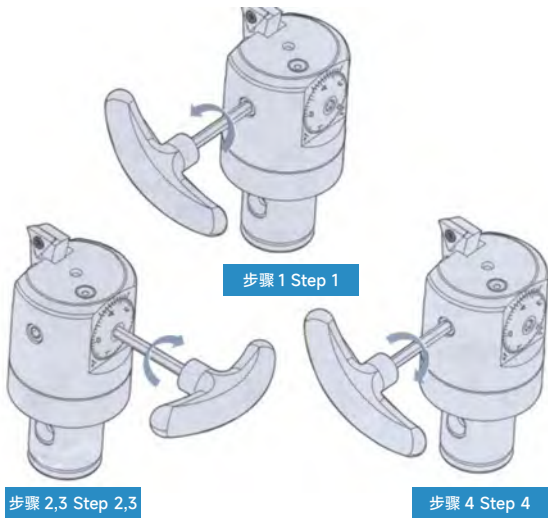


使用步骤 /Operating Instructions

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

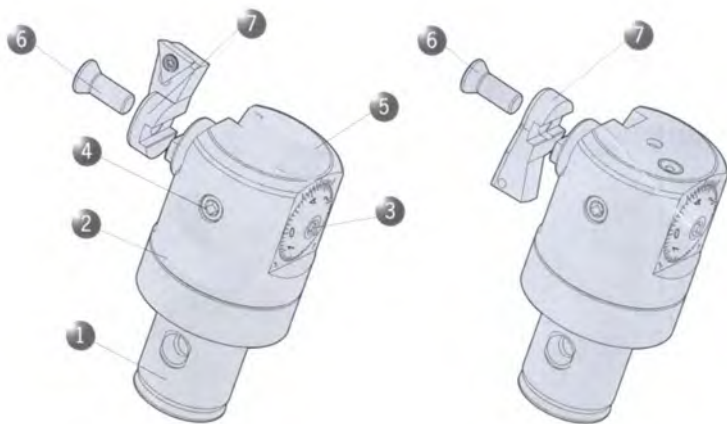
Checking before adjustment:Make sure right inserts mounted and screwfor insert holder fastened properly.  
Step 1:Unlock the clamping screw(See figure 1)anti-clockwise.  
Step 2:Move the insert holder(See figure 2,3)to the required working diameter according to the reference line marked on the tool and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

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 注油孔 oil-feed hole
- 6 刀片座锁紧螺钉 Clamping screw
- 7 刀片座 Insert holder



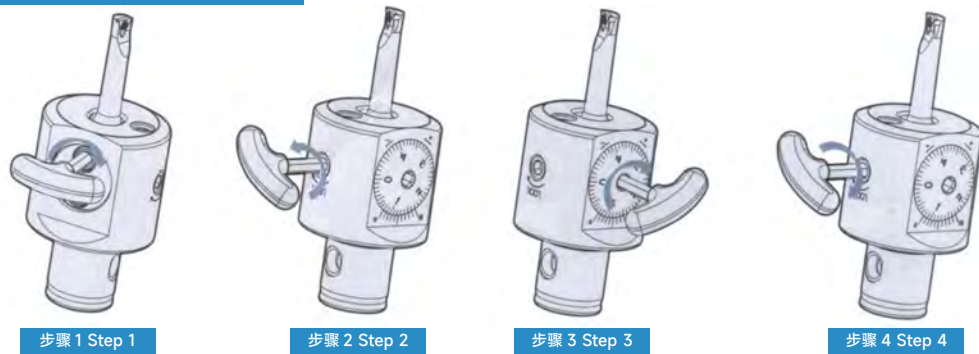
使用者注意事项 /Operating Instructions

- 请在调整范围内加工使用。
  - 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。
  - 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。
  - 使用反镗功能时，主轴必须反转。
  - 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.

使用步骤 /Operating Instructions

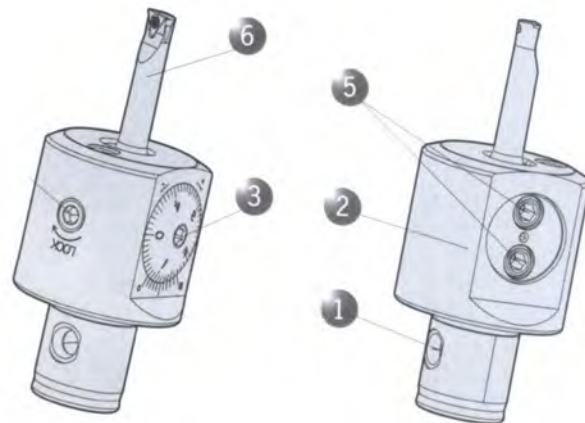
步骤一：选择加工范围内刀杆，至于镗头按照孔内，使刀杆削平面对准固定螺丝紧固方向，并确认刀尖处于镗头微调正方向，扭紧刀杆锁紧螺钉（图）  
步骤二：松开微调锁紧螺钉（图）逆时针旋转。  
步骤三：调整微调旋钮（图）顺时针使加工尺寸增大，反之减少。调整尺寸时，请按同方向微调，以确保微调精度。精度为每一格 0.01mm  
步骤四：微调至所需尺寸后，以适当扭力锁紧微调锁紧螺钉（图）顺时针旋转。  
Step1 : Hold right boring bar in right hole.Make sure weldon part of boring bar is to the position of lock 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



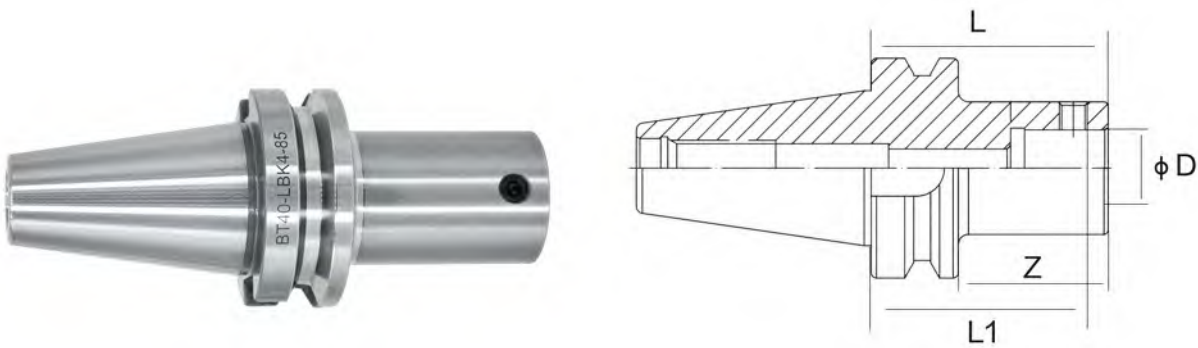
产品结构 /Manuals

- 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

- 请在加工范围内（6-50mm）使用。
  - 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。
  - 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。
  - 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.

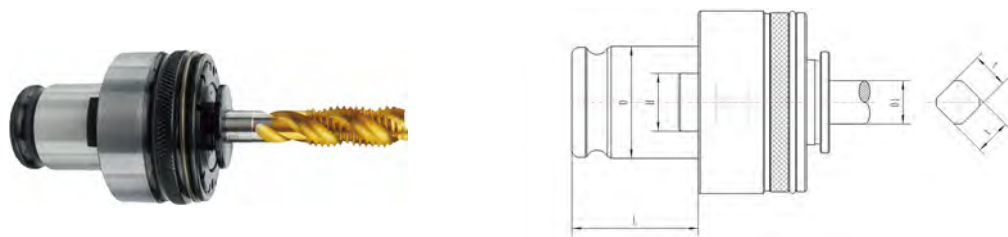


MAS403  
20CrMnTi

| 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 |

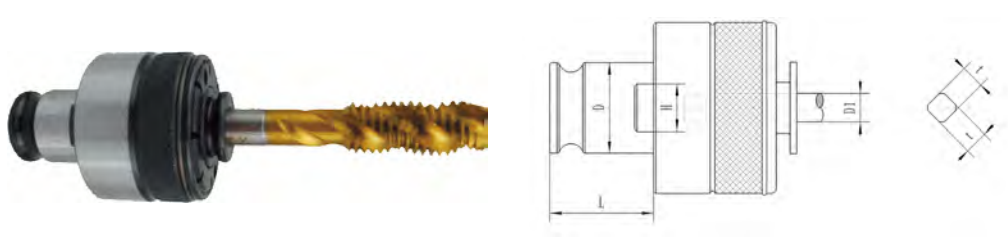
| Combination   |          | Height Z | Range OD   | Fig. | L   | L1  | D1    | Wt.  |
|---------------|----------|----------|------------|------|-----|-----|-------|------|
| LBA Shanks    | CBA Head |          |            |      |     |     |       |      |
| BT50-LBK1-115 | CBA20    | 75       | 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<br>丝锥规格                            | 丝锥尺寸 Tap size |      | JIS 日标<br>丝锥规格 | 丝锥尺寸 Tap size |      | DIN 德标<br>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   |                    |               |      |     |     |     |



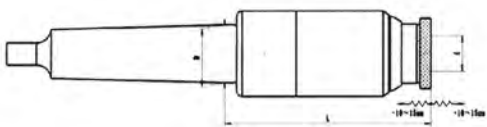
丝锥另购 Taps sold separately

| 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<br>丝锥规格                          | 丝锥尺寸 Tap size |      |  | JIS 日标<br>丝锥规格 | 丝锥尺寸 Tap size |      |  | DIN 德标<br>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   |  |                    |               |      |





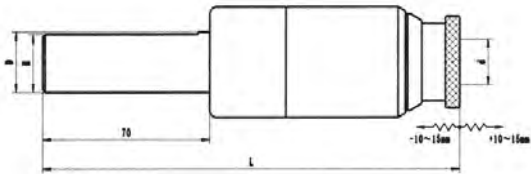
| Model                | 适用夹头 Sizes of Collets |                             |
|----------------------|-----------------------|-----------------------------|
| MT3/4/5-GT12-7PCS    | GT12                  | M3,M4,M5,M6,M8,M10,M12      |
| NT30/40/50-GT12-7PCS |                       |                             |
| 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    |                       |                             |



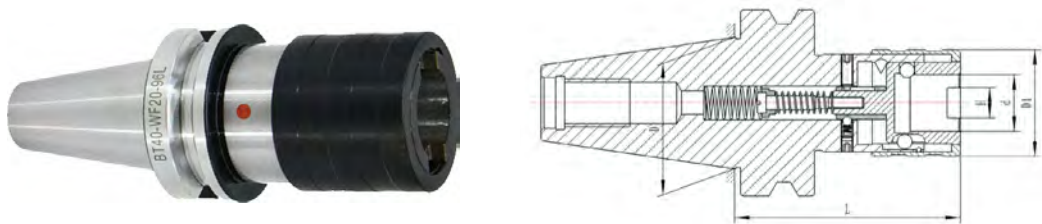
| Model    | Capacity | D       | d   | L   | 适用夹头 Sizes of Collets |
|----------|----------|---------|-----|-----|-----------------------|
| MT2-GT12 | M3-M16   | φ17.780 | φ19 | 110 | GT12 GT12B TC312 G3   |
| MT3-GT12 | M3-M16   | φ23.825 | φ19 | 110 | GT12 GT12B TC312 G3   |
| MT4-GT12 | M3-M16   | 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        |



| Model          | D     | D1 | d  | L   | H  | 攻丝范围<br>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            |

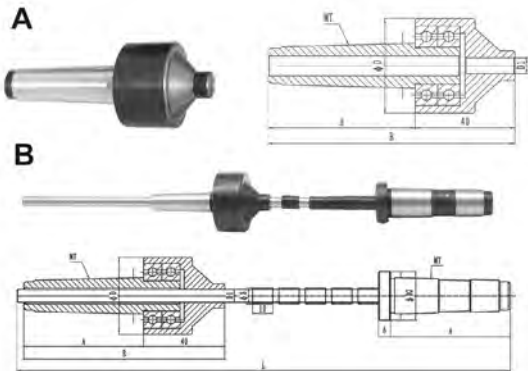


| Model         | D  | L1 | L2 | 适用夹头<br>Sizes of Collets | 攻丝范围<br>Tapping range |
|---------------|----|----|----|--------------------------|-----------------------|
| D16-TER16-70L | 16 | 85 | 70 | ER16                     | M2-M12                |
| D16-TER20-80L |    |    | 80 | ER20                     | 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)



| Model           | D     | D1 | L   | 适用夹头<br>Sizes of Collets | 攻丝范围<br>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 | 4.2 | 38 |

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



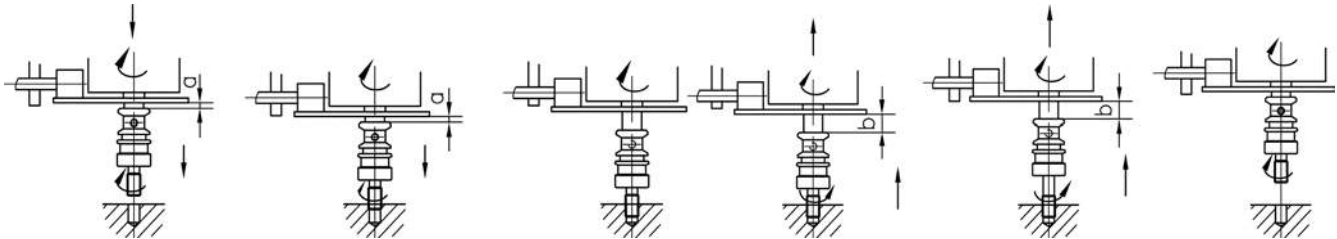
| Model    | 加持范围 Capacity |            | 加持柄径范围<br>Support handle diameter range | 连接锥度<br>Connection taper | D  | L  |
|----------|---------------|------------|-----------------------------------------|--------------------------|----|----|
| TC13-B16 | M2-M13        | 1/8"-1/2"  | φ2.5-φ10                                | 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<br>Tapping range | d       | D  | D1   | L   | L1    | 莫氏柄<br>MS.NO.S       |
|-------|-----------------------|---------|----|------|-----|-------|----------------------|
| J467  | M2—M7                 | 2.5—6.5 | 23 | 55   | 135 | JU    | MS2—JT33<br>MS3—JT33 |
| J4612 | M5—M12                | 3.5—10  | 28 | 75   | 164 | 114.5 | MS3—M16<br>MS4—M16   |
| J4620 | M8—M20                | 6.0—14  | 38 | 90.5 | 205 | 135   | MS3—M20<br>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 |

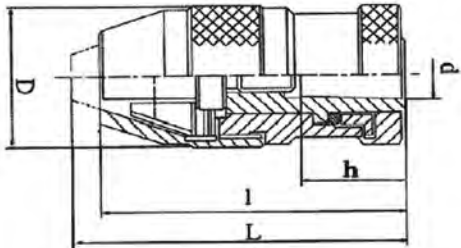
电动攻丝机配件 Electric tapping machine accessories

- 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 ≤ 0.06mm  
M ≤ 0.12mm  
P ≤ 0.20mm

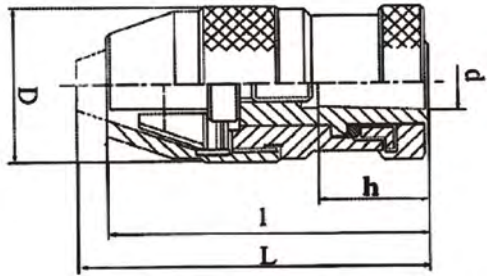
C45S20

| 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

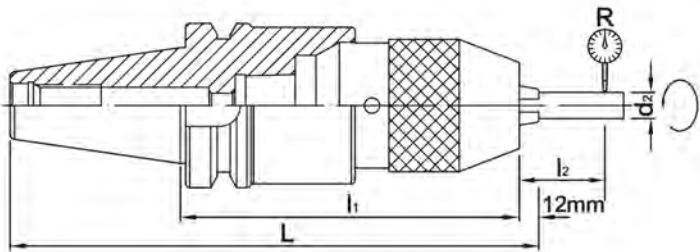


| Model  | Capacity    | Thread | h          | D  | L  | I   |    |
|--------|-------------|--------|------------|----|----|-----|----|
| J0306  | 1/64"-1/4"  | 0.5-6  | 3/8"-24UNF | 14 | 35 | 67  | 61 |
| J0308  | 1/64"-5/16" | 0.5-8  | 3/8"-24UNF | 14 | 42 | 86  | 78 |
| J0310A | 1/32"-3/8"  | 1-10   | 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 |



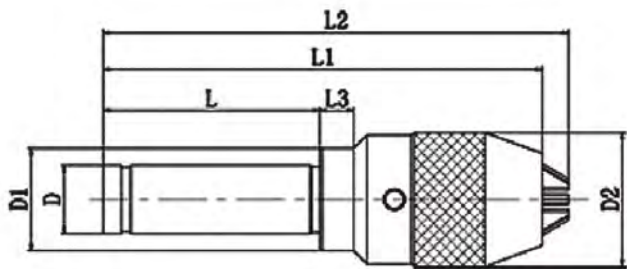
\* Please state light or heavy duty as you prefer when ordering. 订货时请注明是轻型还是重型。



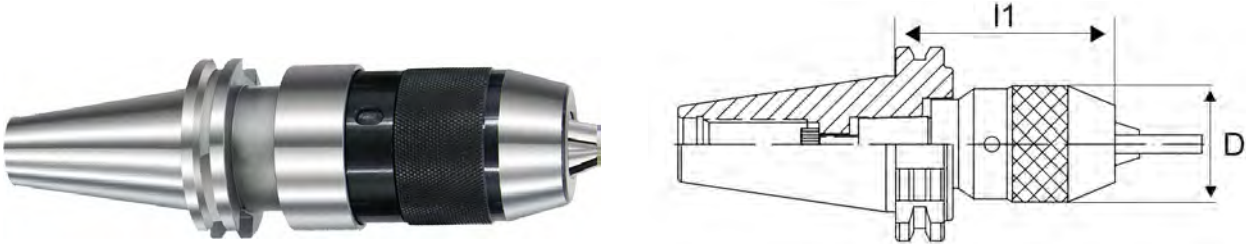


A、B、C 三种外观材质均可提供

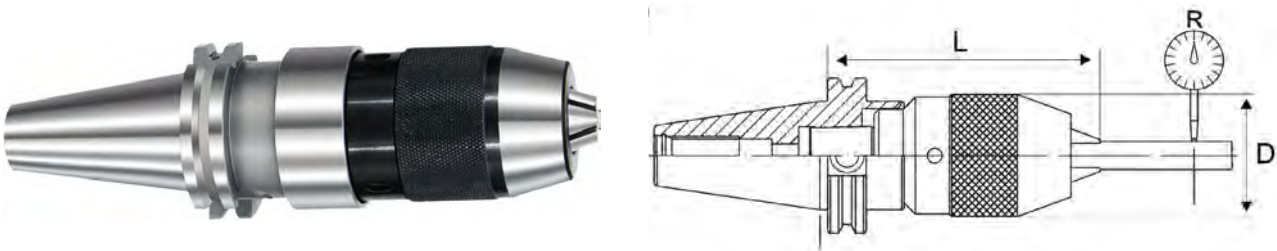
| Model          | Clamping range | D    | L    |       |
|----------------|----------------|------|------|-------|
|                |                |      | Min. | Max.  |
| BT30-APU08-80  | 1-8            | 36.3 | 75   | 82    |
| BT30-APU13-110 | 1-13           | 51.5 | 94   | 104.5 |
| BT40-APU08-85  | 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   |



| 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   |



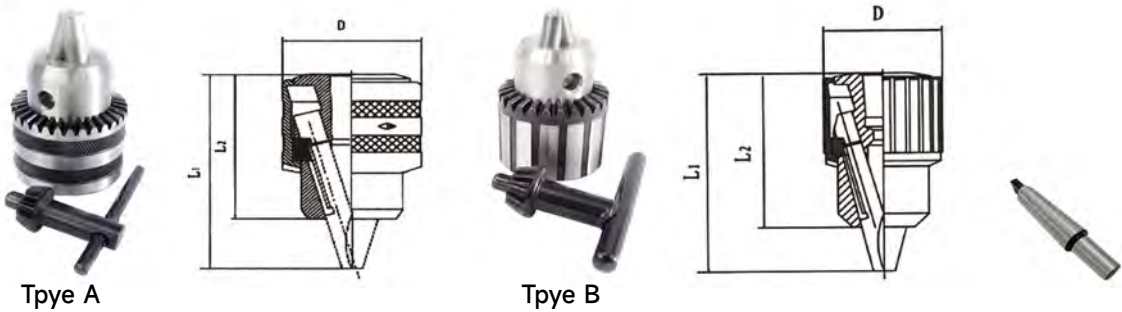
| Model          | l1  | l2 | d1 | d2 | R   | Range |           | KGS  |
|----------------|-----|----|----|----|-----|-------|-----------|------|
|                |     |    |    |    |     | mm    | inch      |      |
| SK30-APU08-80  | 80  | 55 | 37 | 6  | 0.4 | 1-8   | 1/24-5/16 | 0.60 |
| SK30-APU13-120 | 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 |



| Model       | Clamping Range |             | D    |        | Dimensions |        |         |        |
|-------------|----------------|-------------|------|--------|------------|--------|---------|--------|
|             | (φmm)          | (φinch)     | (mm) | (inch) | Minimum    |        | Maximum |        |
|             |                |             |      |        | (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" |



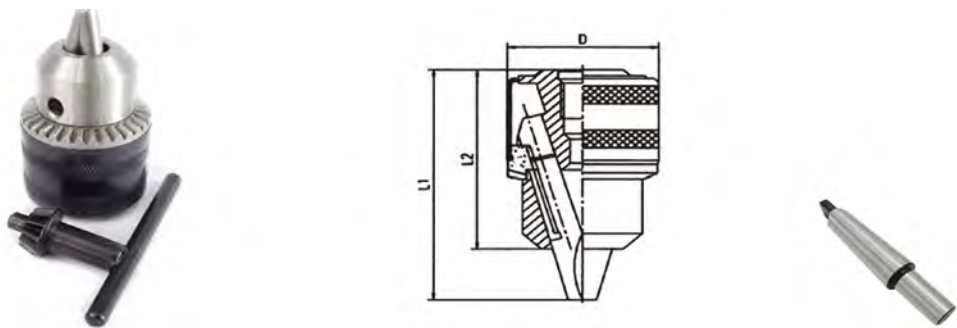
(重型 Heavy Duty) 扳手式锥孔钻夹头 Key-Type Drill Chucks With Taper Fitting



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   |

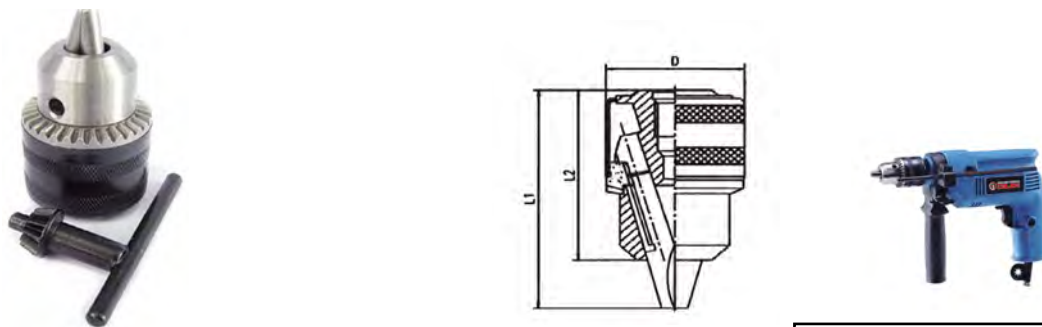
(轻型 Light Duty) 扳手式锥孔钻夹头 Key-Type Drill Chucks With Taper Fitting



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 |

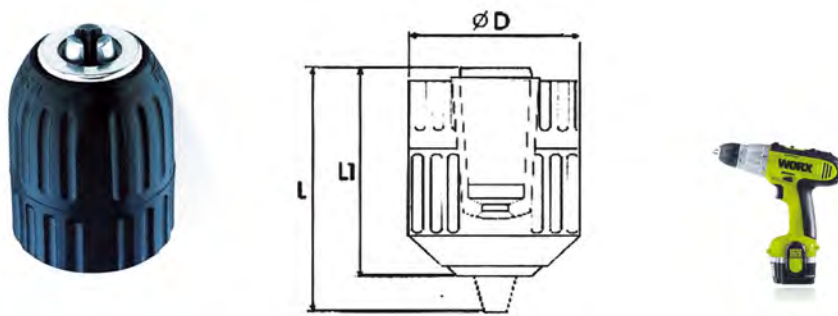
扳手型螺纹孔钻夹头 Key-Type Drill Chucks With Thread Mounted



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 |

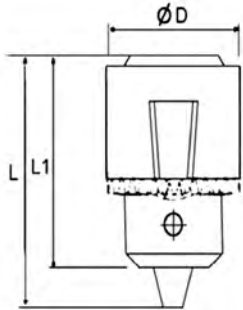
手紧式钻夹头 Keyless Hand-tightening Drill Chucks



PA6-30G ≤ 0.30

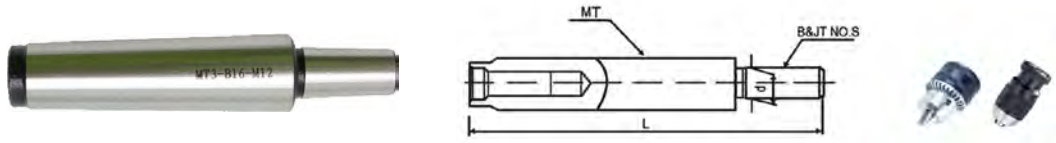
| Model  | Capacity | Mounts    | D  | L1   | L    |
|--------|----------|-----------|----|------|------|
| J1510A | 0.8-10   | 3/8-24UNF | 41 | 54.5 | 64   |
| J1510B | 0.8-10   | 12-20UNF  | 41 | 54.5 | 64   |
| J1513A | 2-13     | 1/2-20UNF | 43 | 62   | 74.5 |
| J1513B | 2-13     | 3/8-24UNF | 43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

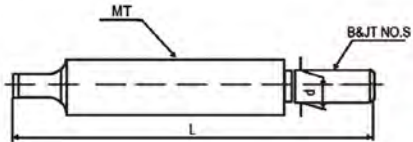


DIN228A  
C45  
≥ 85%

| 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 |

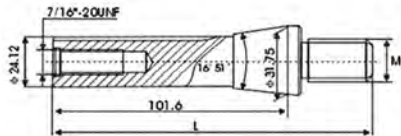
扁尾式接杆 Drill Chuck Arbors With Tang Form

R8 钻接杆 R8 Drill Chuck Arbors



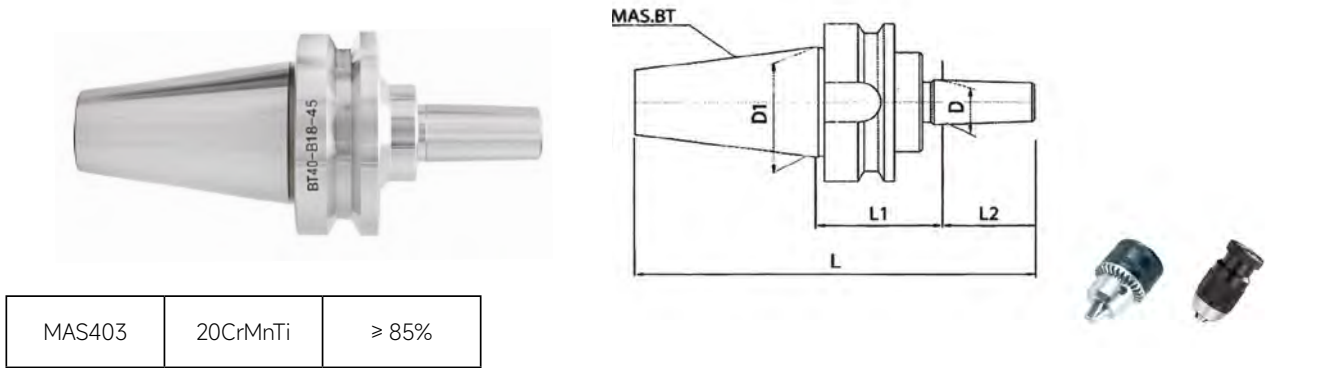
DIN228B  
C45  
≥ 85%

| 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  |



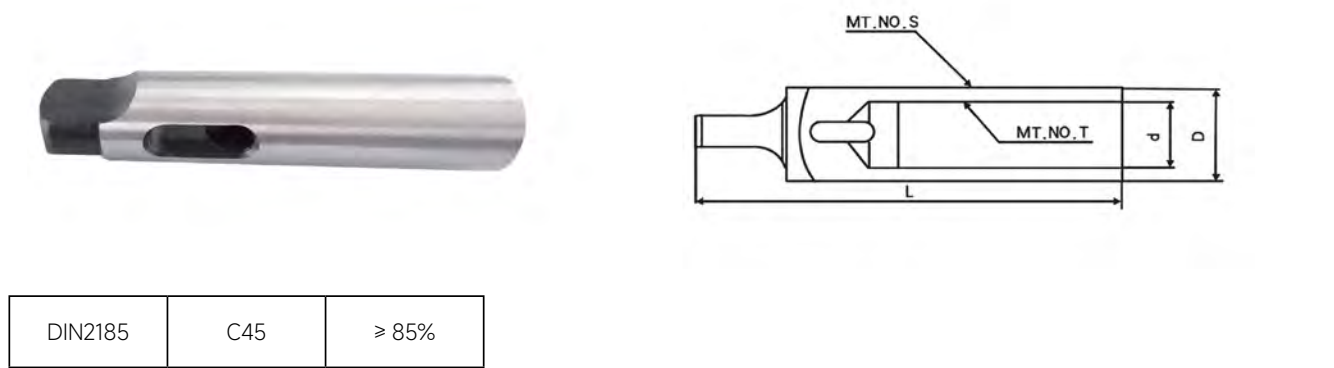
C45  
≥ 85%

| 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  |



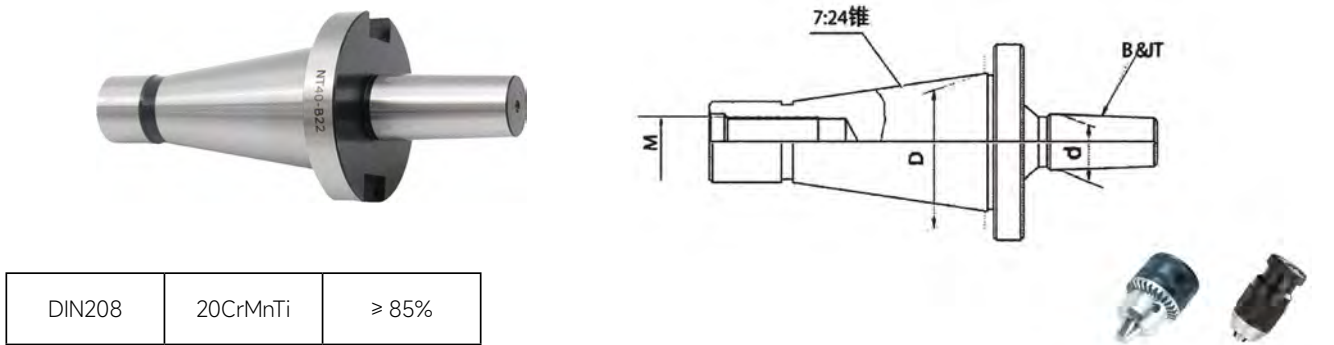
|        |          |       |
|--------|----------|-------|
| MAS403 | 20CrMnTi | ≥ 85% |
|--------|----------|-------|

| Model       | L2     | L     | D      | D1    | M   |
|-------------|--------|-------|--------|-------|-----|
| BT40-B16-45 | 24     | 134.4 | 15.733 | 44.45 | M16 |
| BT40-B18-45 | 32     | 142.4 | 15.733 | 44.45 | M16 |
| BT40-JT2-45 | 22.225 | 132.6 | 14.199 | 44.45 | M16 |
| BT40-JT3-45 | 30.956 | 141.4 | 20.599 | 44.45 | M16 |
| BT40-J33-45 | 25.4   | 135.8 | 15.850 | 44.45 | M16 |



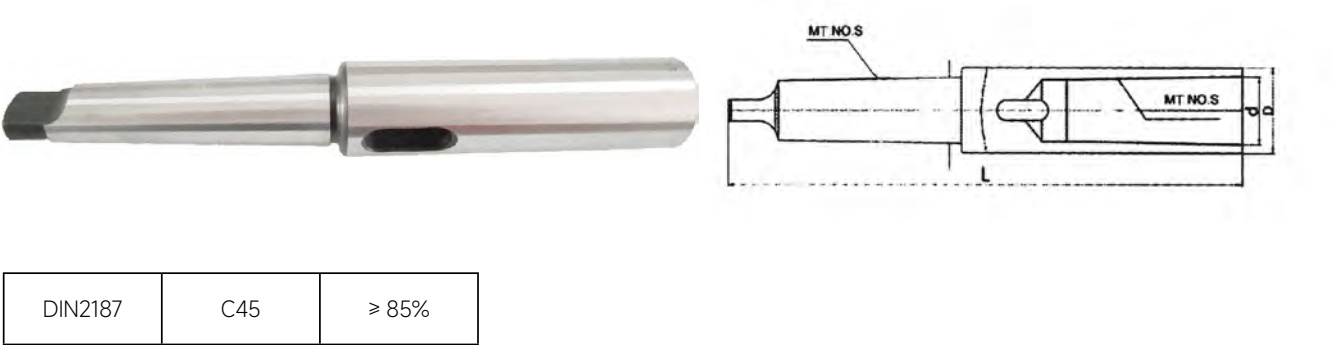
|         |     |       |
|---------|-----|-------|
| DIN2185 | C45 | ≥ 85% |
|---------|-----|-------|

| Model | MT.No.S | MT.No.T | D    | d      | L   | Wt.  |
|-------|---------|---------|------|--------|-----|------|
| MT2-1 | 2       | 1       | 18.6 | 12.065 | 90  | 0.10 |
| MT3-1 | 3       | 1       | 24.1 | 12.065 | 99  | 0.24 |
| MT3-2 | 3       | 2       | 24.7 | 17.78  | 108 | 0.12 |
| MT4-2 | 4       | 2       | 31.6 | 17.780 | 124 | 0.50 |
| MT4-3 | 4       | 3       | 32.4 | 23.825 | 132 | 0.38 |
| MT5-3 | 5       | 3       | 44.7 | 23.825 | 156 | 1.36 |
| MT5-4 | 5       | 4       | 45.5 | 31.267 | 164 | 0.95 |
| MT6-4 | 6       | 4       | 63.8 | 31.267 | 218 | 3.12 |
| MT6-5 | 6       | 5       | 63.8 | 44.399 | 218 | 1.95 |



|        |          |       |
|--------|----------|-------|
| DIN208 | 20CrMnTi | ≥ 85% |
|--------|----------|-------|

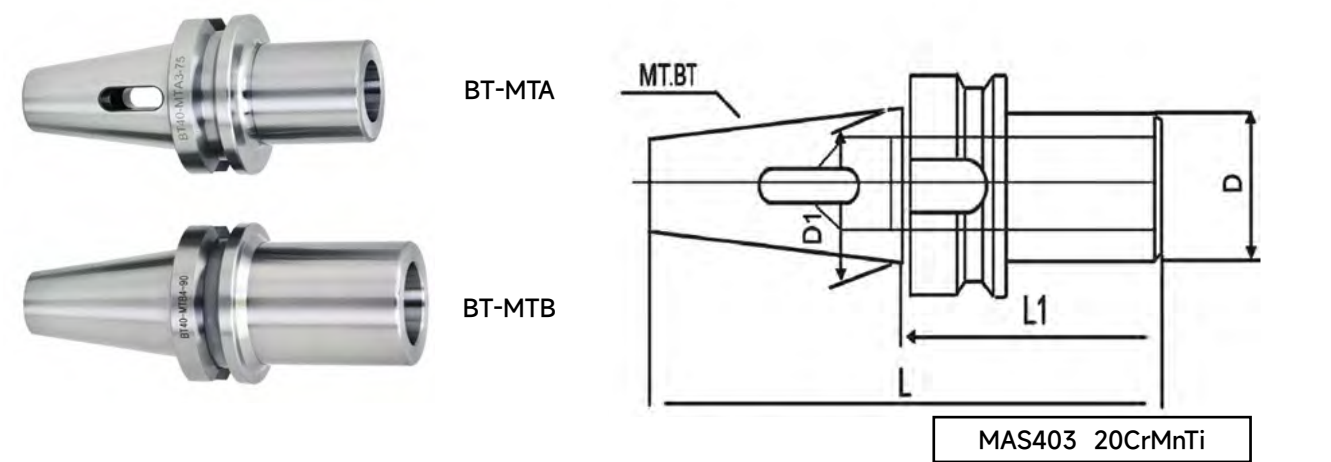
| Model     | D     | d      | L   | M   | Wt    |
|-----------|-------|--------|-----|-----|-------|
| NT40-JT2  | 44.45 | 14.199 | 141 | M16 | 0.829 |
| NT40-JT33 | 44.45 | 15.85  | 145 | M16 | 0.853 |
| NT40-B12  | 44.45 | 12.065 | 136 | M16 | 0.809 |
| NT40-B16  | 44.45 | 15.733 | 143 | M16 | 0.848 |
| NT40-B18  | 44.45 | 17.78  | 151 | M16 | 0.869 |



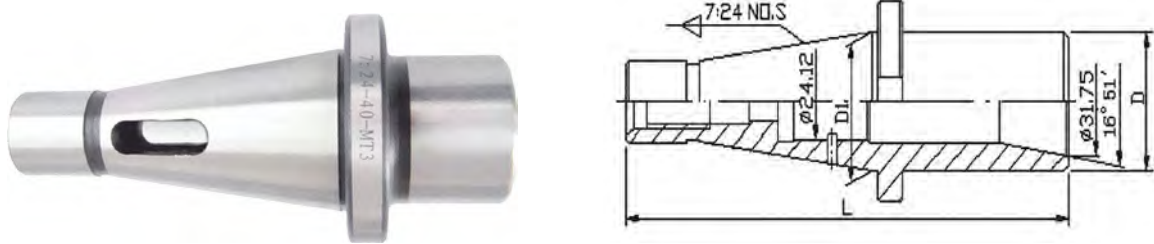
|         |     |       |
|---------|-----|-------|
| DIN2187 | C45 | ≥ 85% |
|---------|-----|-------|

| Model | MT.No.S | MT.No.T | D  | d      | L   | Wt.  |
|-------|---------|---------|----|--------|-----|------|
| MT3-2 | 3       | 2       | 30 | 17.780 | 194 | 0.62 |
| MT3-3 | 3       | 3       | 36 | 23.825 | 215 | 0.89 |
| MT3-4 | 3       | 4       | 48 | 31.267 | 240 | 1.55 |
| MT3-5 | 3       | 5       | 63 | 44.399 | 275 | 2.80 |
| MT4-3 | 4       | 3       | 36 | 23.825 | 240 | 1.27 |
| MT4-4 | 4       | 4       | 48 | 31.267 | 265 | 1.93 |
| MT4-5 | 4       | 5       | 63 | 44.399 | 300 | 3.18 |
| MT4-6 | 4       | 6       | 85 | 63.348 | 368 | 6.50 |





| 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 |



| Model    | 7:24.No.S | D  | d      | D     | 1L  |
|----------|-----------|----|--------|-------|-----|
| NT30-MT2 | NT30      | 32 | 17.780 | 31.75 | 118 |
| NT30-MT3 | NT30      | 40 | 23.825 | 31.75 | 138 |
| NT40-MT2 | NT40      | 32 | 17.780 | 44.45 | 143 |
| NT40-MT3 | NT40      | 40 | 23.825 | 44.45 | 158 |
| NT40-MT4 | NT40      | 48 | 31.267 | 44.45 | 186 |
| NT50-MT3 | NT50      | 40 | 23.825 | 69.85 | 192 |
| NT50-MT4 | NT50      | 48 | 31.267 | 69.85 | 197 |
| NT50-MT5 | NT50      | 61 | 44.399 | 69.85 | 232 |

拆卸铁 Drill Drafts



| Mode       | MS.NO | L   |
|------------|-------|-----|
| DIN317/0   | 0     | 90  |
| DIN317/1-2 | 1-2   | 140 |
| DIN317/3   | 3     | 190 |
| DIN317/4   | 4     | 225 |
| DIN317/5-6 | 5-6   | 265 |

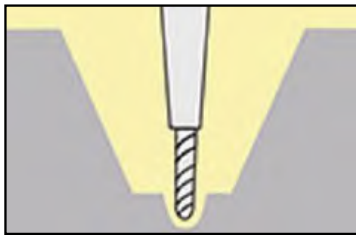
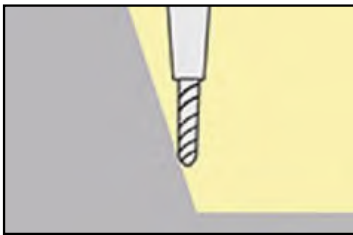
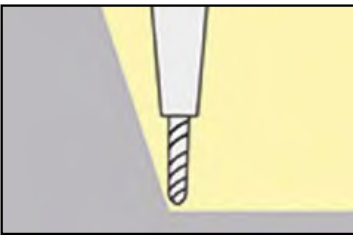
半自动拆卸铁 Half Automatic Morse Shank Pullers



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



| Unit:mm        |                  |    |       |    |       |              |
|----------------|------------------|----|-------|----|-------|--------------|
| 型号<br>Model No | 夹持范围<br>Clamping | C  | D     | D1 | L     | 筒夹<br>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   | 150              |    | CDC08 |    |       |              |
| C20-DC08-200   | 3-8              | 16 | 200   |    | CDC08 |              |
| C20-DC010-200  |                  | 10 | 200   |    | CDC10 |              |
| C25-DC08-150   | 3-8              | 25 | 16    | 22 | 150   | CDC08        |
| C25-DC08-200   |                  |    |       |    | 200   | CDC08        |
| C25-DC12-200   | 3-12             |    | 18    |    | 200   | CDC12        |
| C25-DC12-250   |                  |    |       |    | 250   | CDC12        |



Vertical wall processing

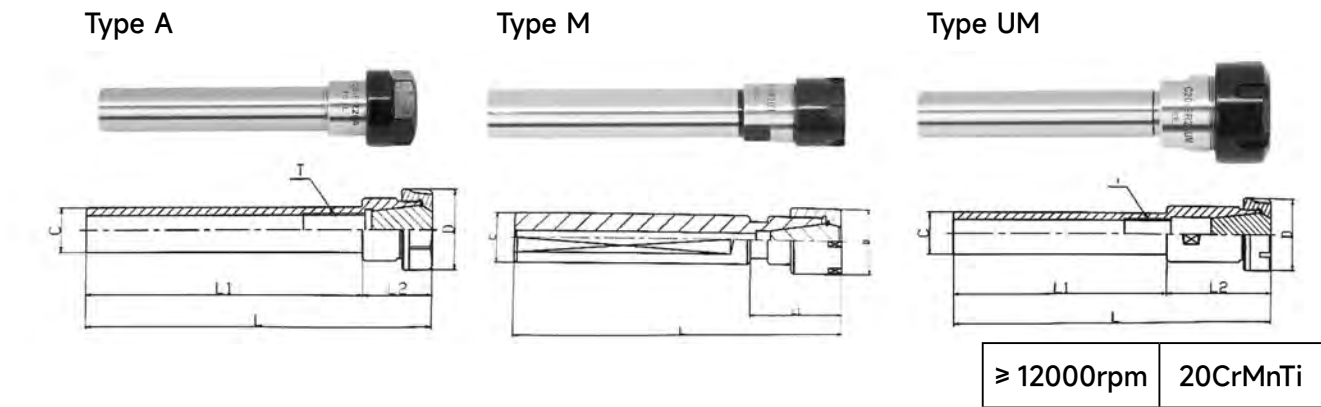
Slot milling



·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<br>(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  |     |    |    |    |    | 16 | 4       |         | 10              |      | 0.15 |
| C16-SL4-200  | 200 |    |    |    |    |    | M4x0.7P |         |                 |      | 0.18 |
| C16-SL6-150  | 150 |    |    |    | 6  |    | 13      |         |                 | 0.15 |      |
| C16-SL6-200  | 200 |    |    |    |    |    |         |         |                 |      | 0.18 |
| C16-SL8-150  | 150 |    |    |    | 8  | 15 |         |         | 0.15            |      |      |
| C16-SL8-200  | 200 |    |    |    |    |    |         |         |                 | 0.18 |      |
| C20-SL6-150  | 150 |    |    |    | 20 | 6  | 13      |         | 0.18            |      |      |
| C20-SL8-150  |     |    |    |    |    | 8  | 15      | M6x1.0P |                 | 0.18 |      |
| C20-SL8-200  | 200 |    |    |    |    |    |         |         |                 | 0.18 |      |
| C20-SL10-150 | 150 |    |    |    |    | 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            |      |      |

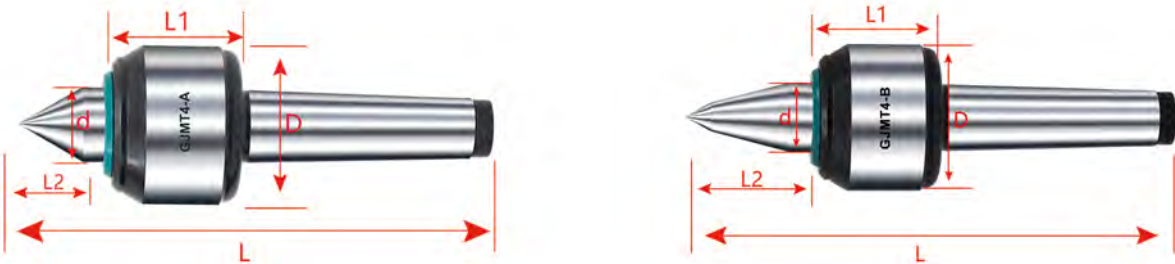


| Model           | L           | L1  | C  | D     |
|-----------------|-------------|-----|----|-------|
| C10-ER8A/M-100  | 117         | 100 | 10 | 12    |
| C10-ER11A/M-100 | 121.6/116.6 | 100 | 10 | 19/16 |
| C12-ER11A/M-100 | 121.6/116.6 | 100 | 12 | 19/16 |
| C12-ER16A/M-100 | 140/137     | 100 | 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    |



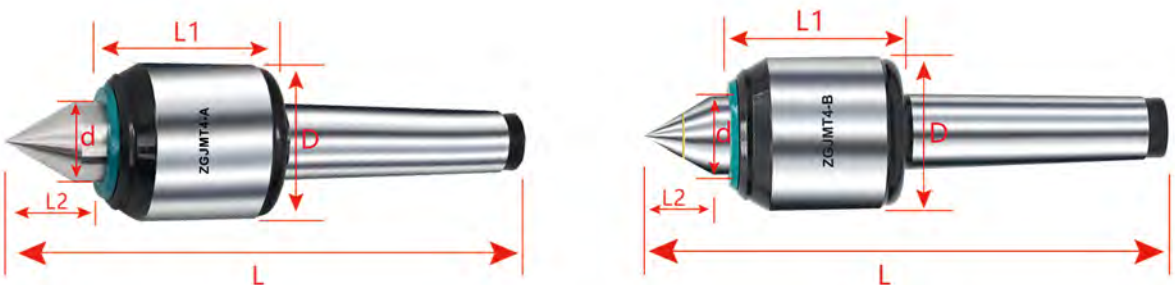
Any other special sizes as ordered. 其它规格按订单供货

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 |

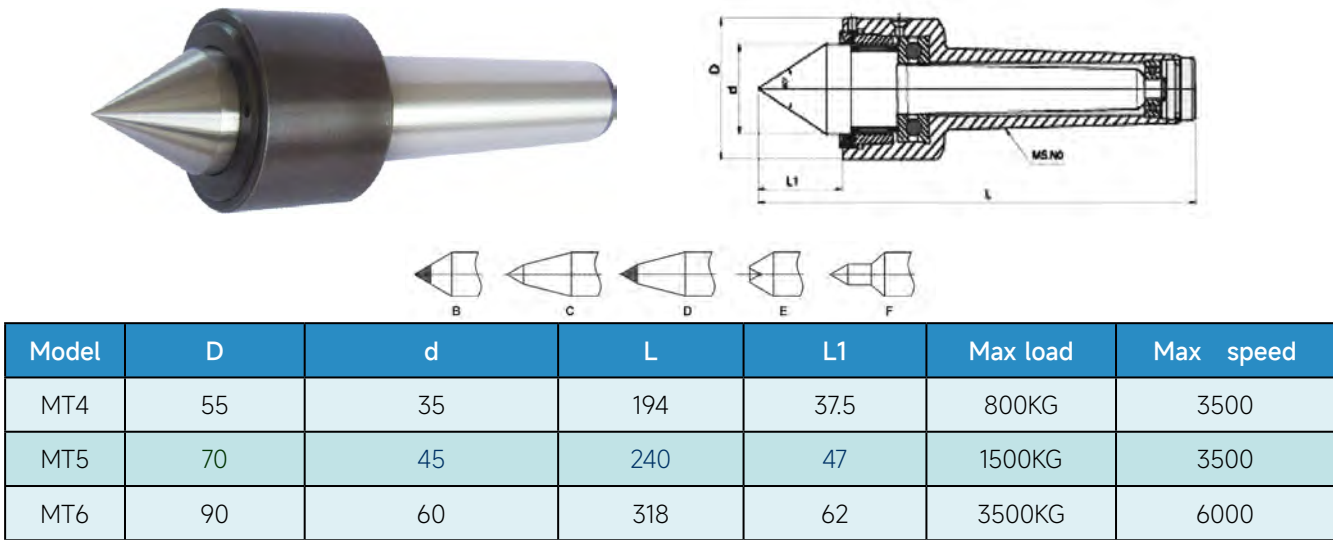
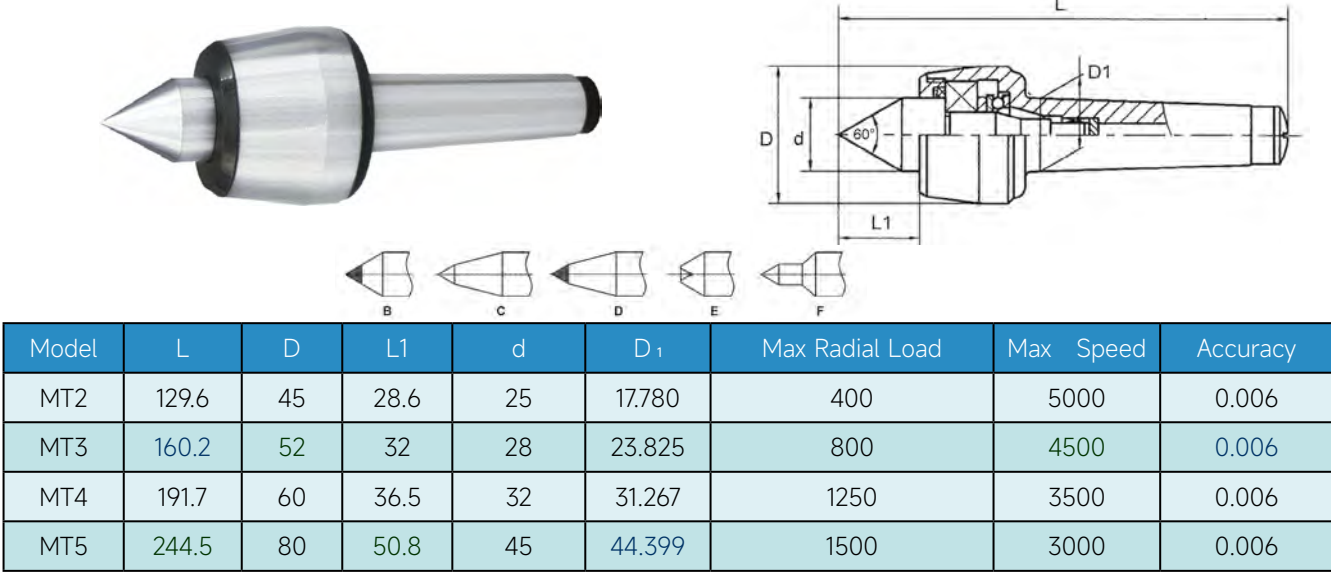
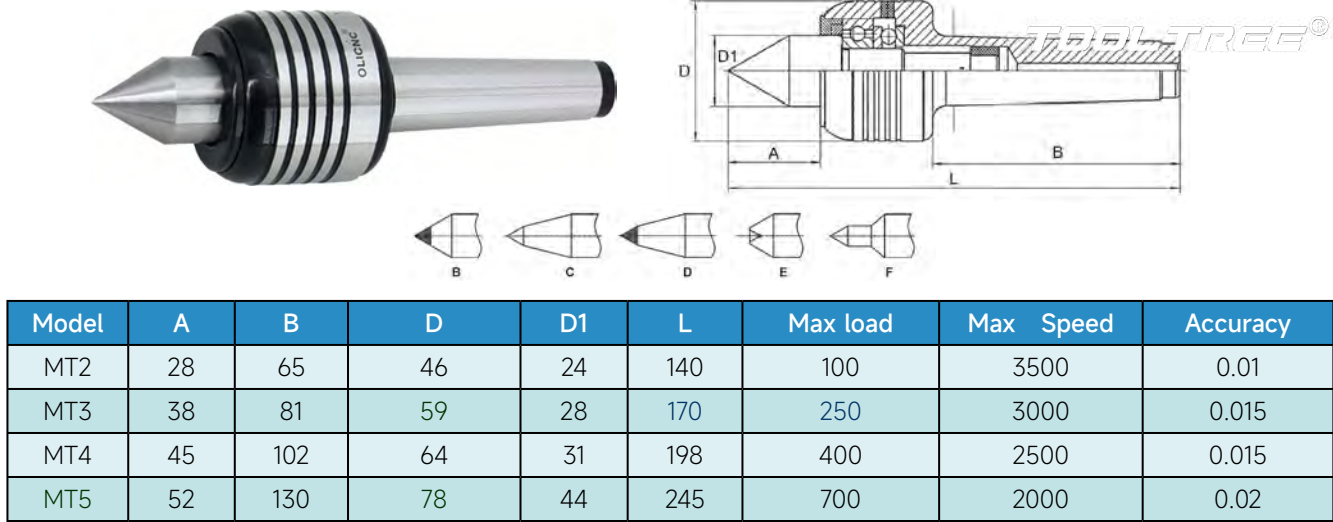
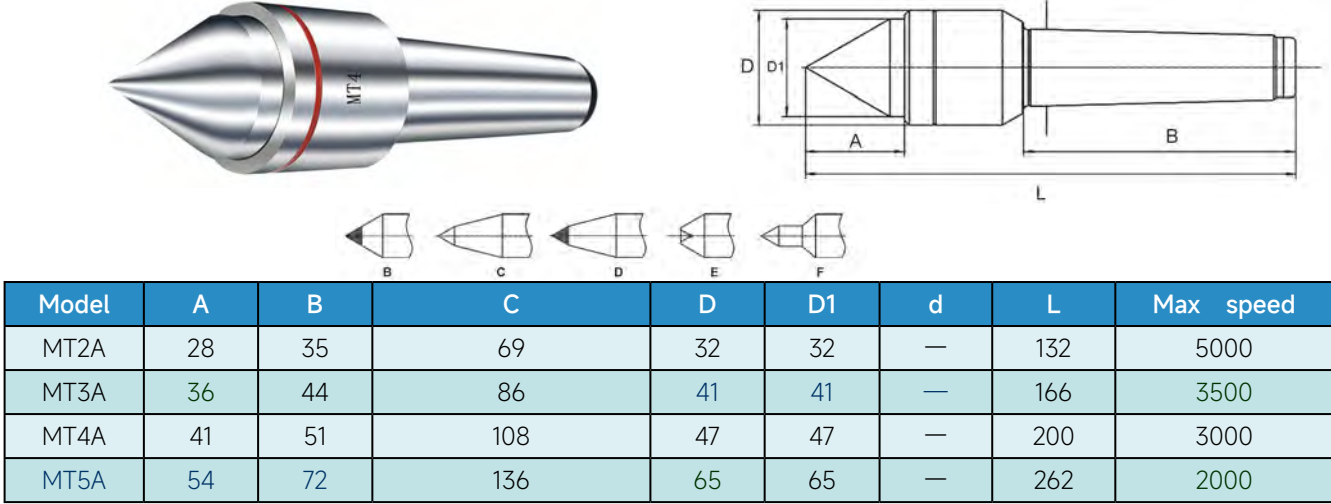
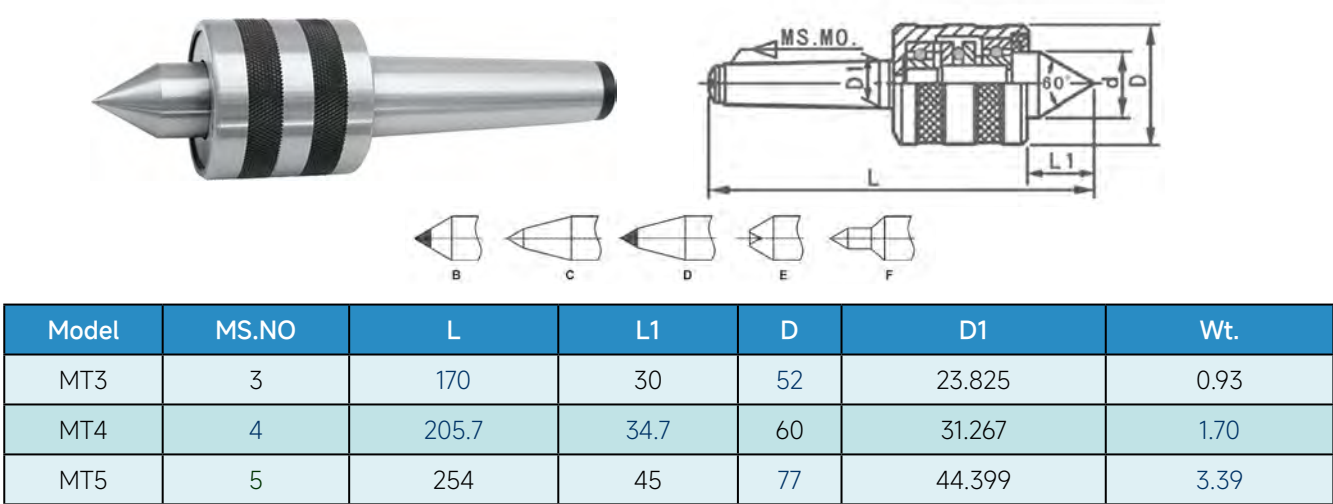
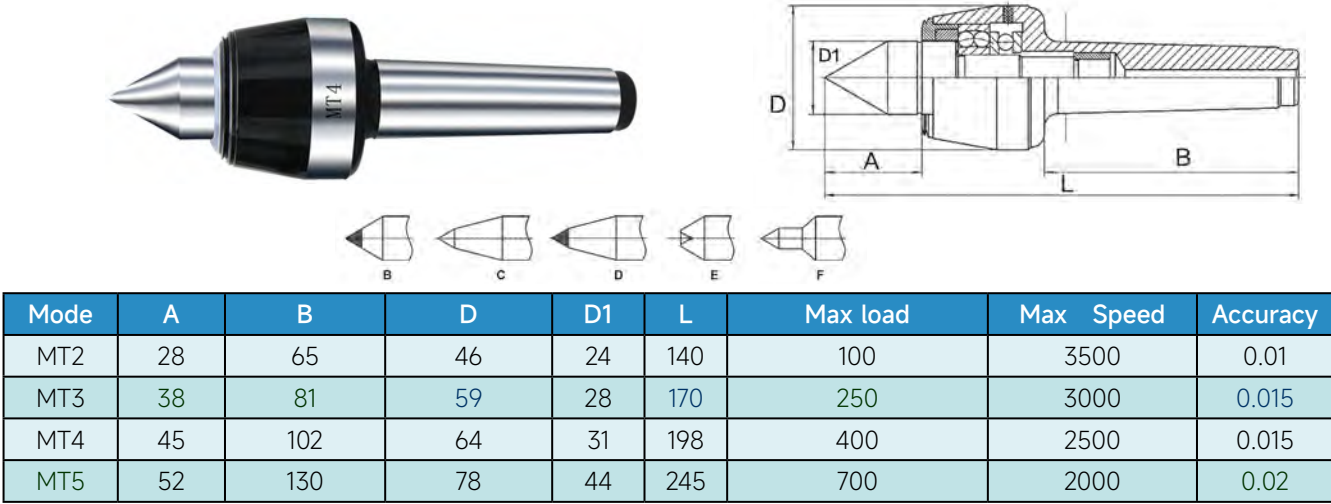
ZGJMT- 系列 重型 ZGJMT-Series Heavy

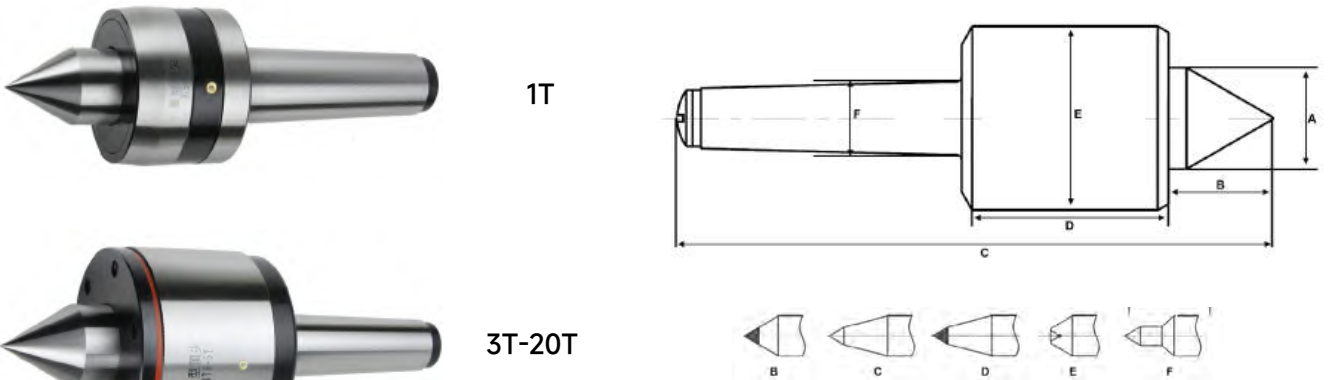


| Model    | L   | L1 | L2 | D  | L  |
|----------|-----|----|----|----|----|
| ZGJMT4-A | 223 | 73 | 40 | 63 | 40 |
| ZGJMT5-A | 250 | 85 | 55 | 84 | 40 |
| Model    | L   | L1 | L2 | D  | L  |
| ZGJMT4-B | 223 | 73 | 40 | 63 | 40 |
| ZGJMT5-B | 250 | 85 | 55 | 84 | 40 |

·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







| 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 |

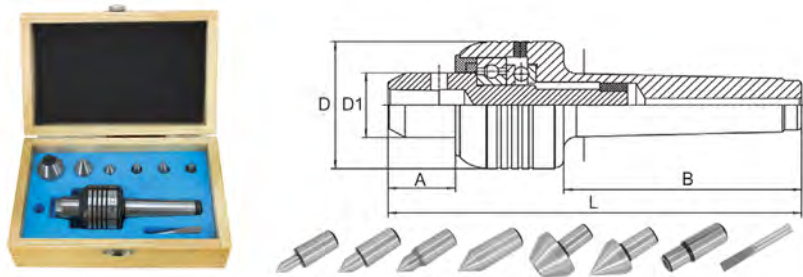


| Model | L   | A      | B  | C  | D  |
|-------|-----|--------|----|----|----|
| MT1   | 152 | 12.065 | 48 | 22 | 69 |
| MT2   | 173 | 17.788 | 58 | 24 | 86 |



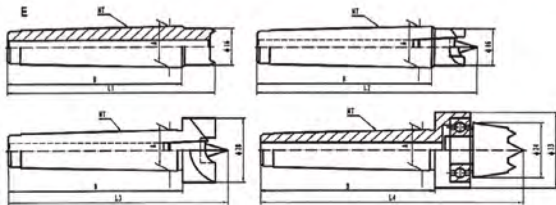
| Model | L   | A      | B  | C     | D  |
|-------|-----|--------|----|-------|----|
| MT1   | 128 | 12.065 | 34 | 19.05 | 56 |
| MT2   | 141 | 17.788 | 34 | 19.05 | 69 |





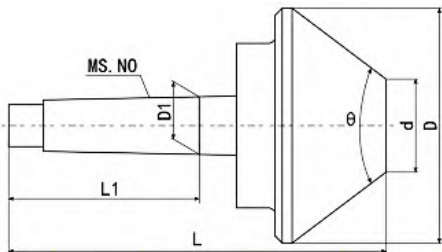
| Model | A    | B   | D  | D1 | L   | Max load | Max Speed | Accuracy |
|-------|------|-----|----|----|-----|----------|-----------|----------|
| MT2   | 27   | 65  | 46 | 24 | 140 | 100      | 3500      | 0.01     |
| MT3   | 32   | 81  | 59 | 28 | 170 | 250      | 3000      | 0.015    |
| MT4   | 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



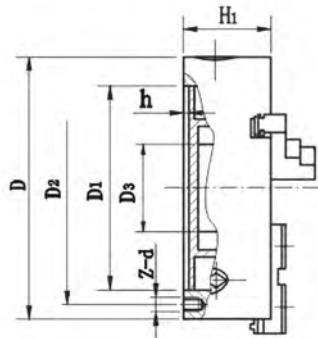
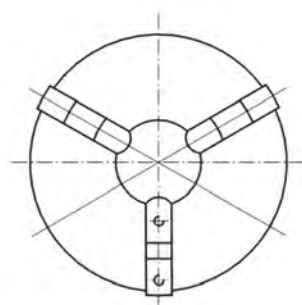
| Model | L1 | L2 | L3 | L4  | A      | B  |
|-------|----|----|----|-----|--------|----|
| MT1   | 69 | 74 | 74 | 91  | 12.065 | 56 |
| MT2   | 82 | 87 | 87 | 104 | 17.78  | 69 |

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

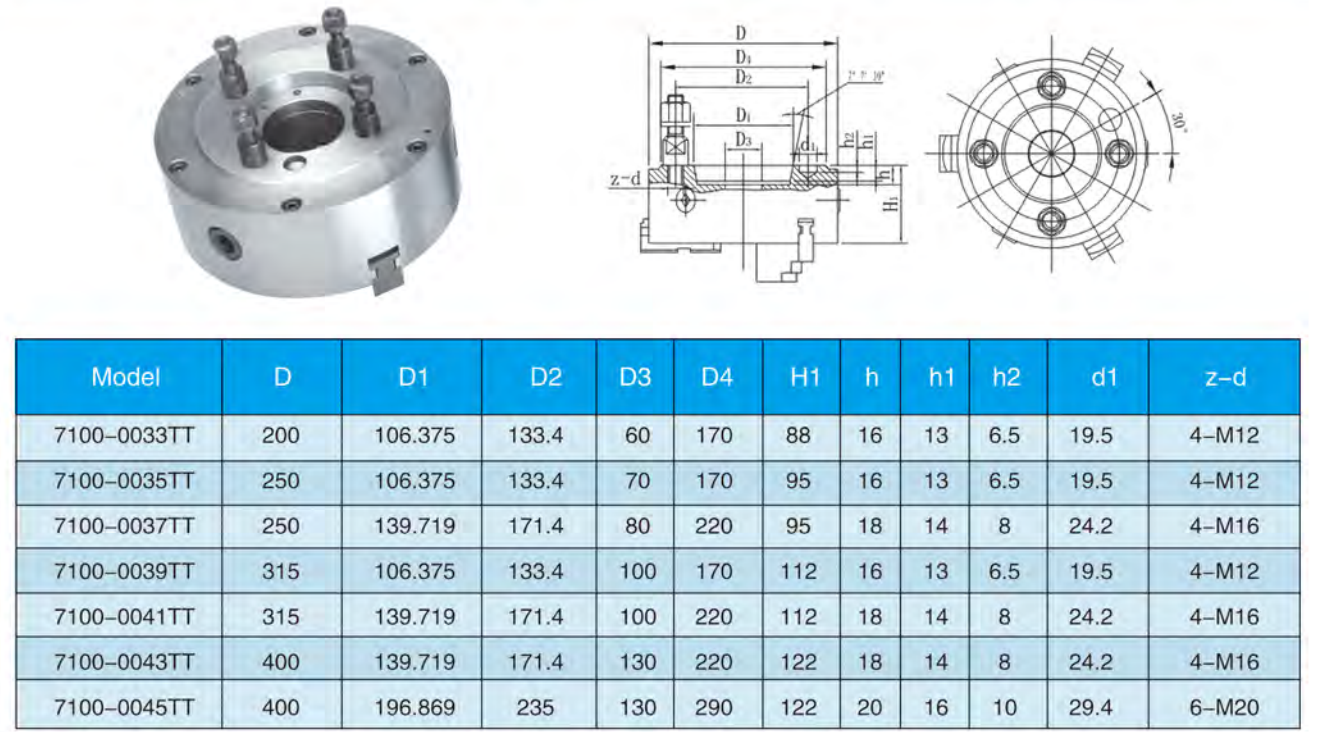
| SPEC./MODEL | D1  | D2  | D3  | H1  | h | z-d   | Nte WT. |
|-------------|-----|-----|-----|-----|---|-------|---------|
| 80          | 63  | 70  | 17  | 45  | 3 | 3×M5  | 1.5     |
| 100         | 80  | 90  | 23  | 52  | 3 | 3×M6  | 2.8     |
| 125         | 100 | 110 | 28  | 58  | 4 | 3×M8  | 5       |
| 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。

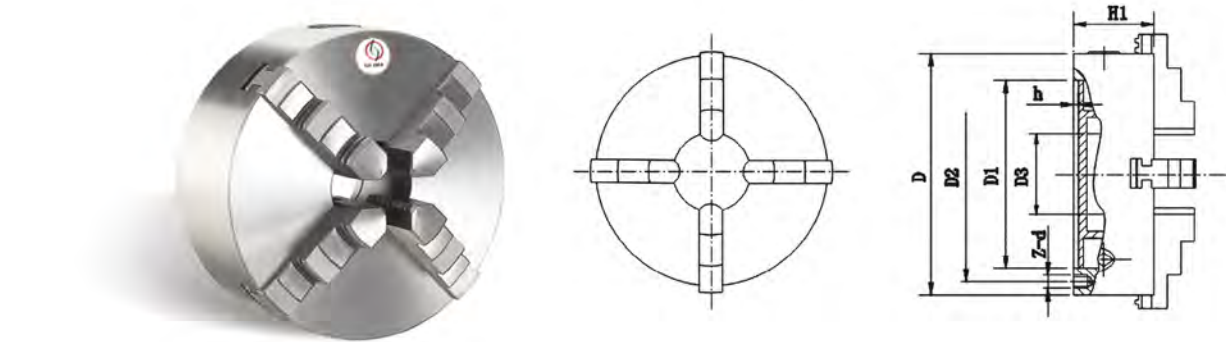
Russian Standardized 3-Jaw Self-Centering Chucks adopt short conical connection according to Standard ГОСТ 2675. The jaws have one-piece and two-piece called A type. A type two-piece jaws are according to ISO 3442 Standard. Soft jaws can be provided according to the clients' requests. High centering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

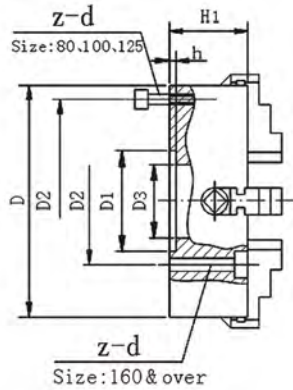
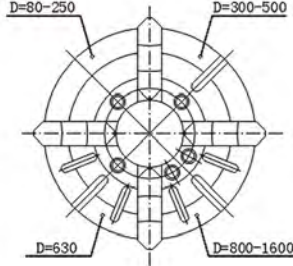




K12 型产品适用于具有一定批量的各种下方形、八棱形零件的加工，可自动定心，快速加紧。本产品的卡爪结构参数与K11系列三爪自定心卡盘的基本相同。

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 kindgs 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

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



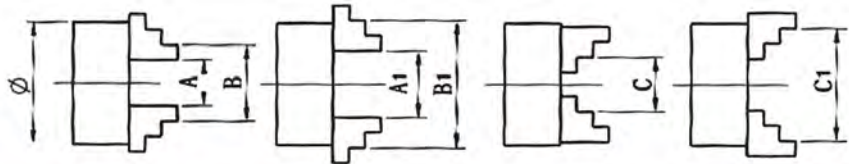
Sizes（规格）：1600--3000mm



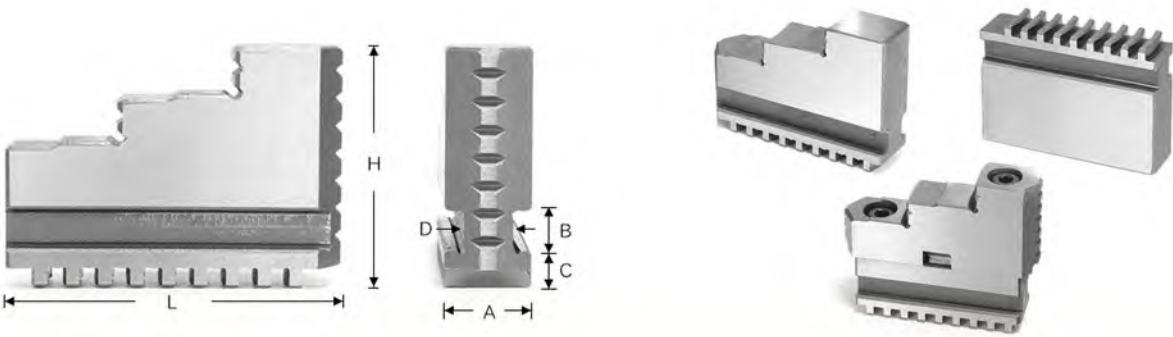


120度标准 120 degree standard 90度标准 90 degree standard 60度标准 60 degree standard

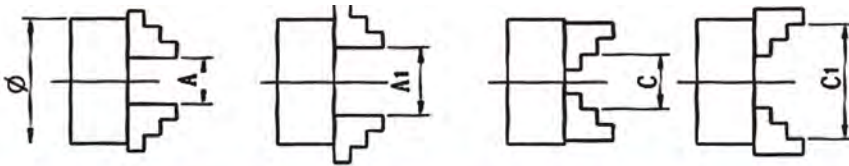
| Model          | L    | W  | H  | D  | Center distance of screw hole | Tooth pitch | Universal chuck |
|----------------|------|----|----|----|-------------------------------|-------------|-----------------|
| 4 inch         | 49.5 | 23 | 23 | 10 | 14                            | 1.5°60°     | 4寸卡盘 (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            |

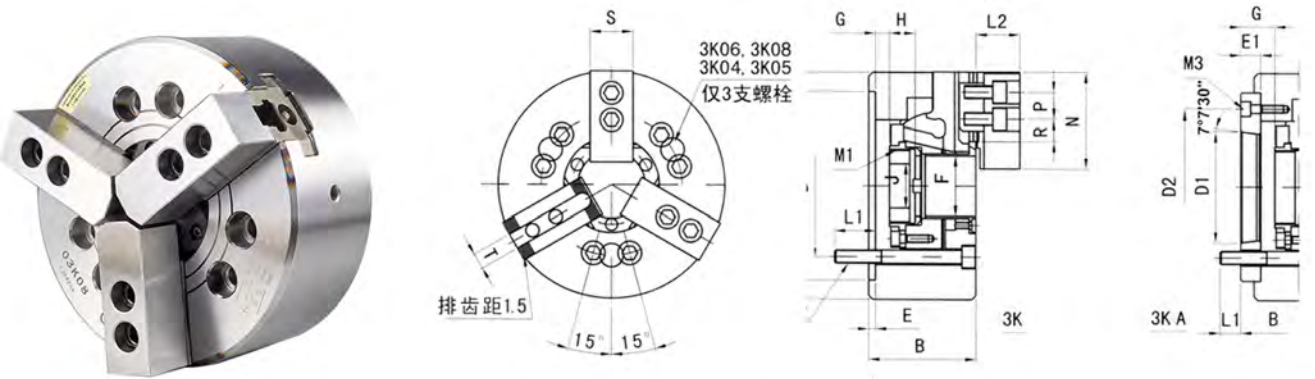


| Model   | A    | B  | C   | D    | H  | L    | mention |
|---------|------|----|-----|------|----|------|---------|
| 80      | 12   | 7  | 5.5 | 5.2  | 33 | 32   | 5       |
| 100     | 15   | 8  | 6.4 | 6.6  | 38 | 42   | 6       |
| 125/130 | 16   | 8  | 6.9 | 7.5  | 45 | 57.3 | 7       |
| 160     | 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.

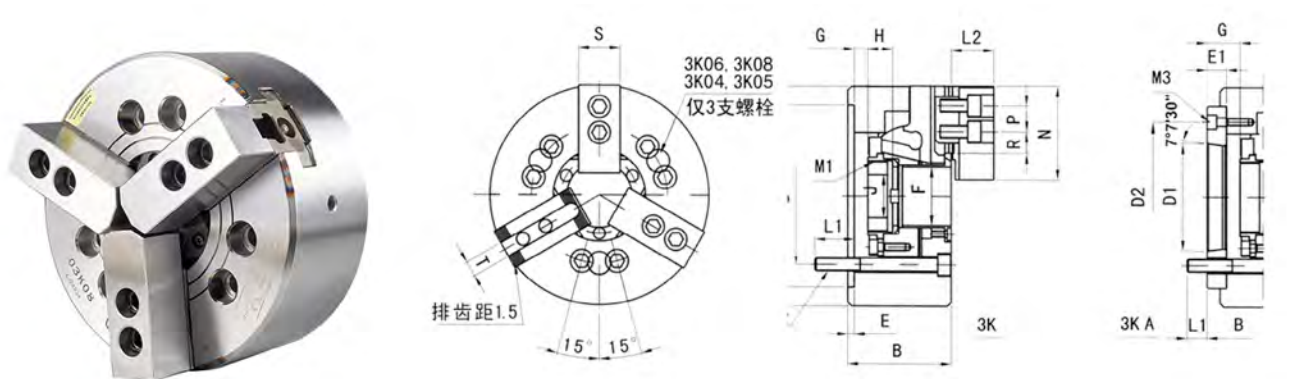
尺寸参数 / Performance Parameters

| 规格<br>Specification |    | A   | B   |     | C<br>(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  | 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  |    |      |      |       |      |      |    |
| 3K-12               | A8 | 304 | 120 | 137 | 220       | 171.4  | 139.72 | 190   | 5    | 22   | 92 | 23   | 45   | 0     | 22   | 32   |    |

| 规格<br>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-M6          | 62 |    | 19.8 | 7.8  |     |    |
| 3K-06               | A5 | 16 | 16 | 37 | M55*2   | 3-M10 |               |    | 73 | 20   | 22.8 | 9.3 | 31 |
| 3K-08               | A5 | 20 | 17 | 38 | M60*2   | 3-M12 | 6-M10<br>3-M6 | 95 | 25 | 29.8 | 14.8 | 35  | 14 |
|                     | A6 |    | 18 |    |         |       |               |    |    |      |      |     |    |
| 3K-10               | A6 | 22 | 24 | 43 | M85*2   | 6-M16 | 6-M12<br>3-M8 | 30 | 30 | 33.8 | 14.3 | 40  | 16 |
|                     | A8 |    |    |    |         |       |               |    |    |      |      |     |    |
| 3K-12               | A8 | 38 | 30 | 52 | M100*2  | 6-M16 | 6-M10         |    | 30 | 21.2 | 15.9 | 50  | 18 |

尺寸参数 / Performance Parameters

| 规格<br>Specification | 楔心行程<br>mm<br>Wedge core travel | 爪行程直径<br>mm<br>Jaw stroke t<br>(Diameter) | 许用推拉力<br>KN(kgf)<br>Permitted push-pull force | 最大夹紧力<br>KN(kgf)<br>Max. gripping force | 极限转速<br>r/min<br>Limited rotating speed (r/min) | 夹紧范围<br>mm<br>Clamping range | 惯量<br>Inertia<br>Kg.m² | 净重 kg<br>Net weight | 推荐油缸<br>Recommended oil cylinde | 最大使用压力<br>MPa(kgf)<br>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               |                                 |                                           | 17.1(1750)                                    | 35.8(3650)                              | 7000                                            | 12-135                       | 0.02                   | 6.7                 | KY-536                          | 2.9(29)                                         |
| 3K-06               | A5                              | 12                                        | 21.5(2200)                                    | 56.8(5800)                              | 6000                                            | 15-168                       | 0.06                   | 11.9                | KY-646                          | 2.8(28)                                         |
| 3K-08               | A5                              | 16                                        | 34.3(3500)                                    | 85.8(8750)                              | 5000                                            | 13-210                       | 0.18                   | 22.5                | TK-852                          | 2.8(28)                                         |
|                     | A6                              |                                           |                                               |                                         |                                                 |                              |                        | 25.4                |                                 |                                                 |
| 3K-10               | A6                              | 17                                        | 42.6(4380)                                    | 110.7(11300)                            | 4200                                            | 31-254                       | 0.33                   | 34.5                | KY-1075                         | 2.7(27)                                         |
|                     | A8                              |                                           |                                               |                                         |                                                 |                              |                        | 41.5                |                                 |                                                 |
| 3K-12               | A8                              | 23                                        | 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

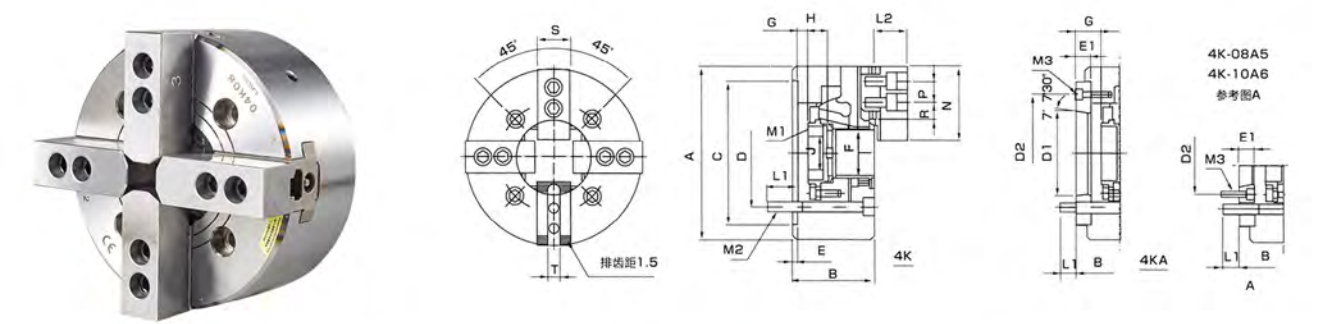
| 规格<br>Specification |    | A   | B   |     | C<br>(H6) | D      | D1     | D2    | E | E1  | F   | G     |      |      |      | H  | J  |
|---------------------|----|-----|-----|-----|-----------|--------|--------|-------|---|-----|-----|-------|------|------|------|----|----|
|                     |    |     |     |     |           |        |        |       |   |     |     | 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   |    | 38 |
|                     | A6 |     |     | 97  |           | 106.38 | 150    | 17    |   | 110 |     |       | 89   |      |      |    |    |
| 3S-10               | A6 | 254 | 89  | 109 | 220       | 171.4  | 133.4  | 25    |   | 34  | 158 | 133   | 133  | 108  | 45   |    |    |
|                     | 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 |     |       | 115  |      |      |    |    |

| 规格<br>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 |       | 62    | 13.5 |    | 6    |      |    |       |
| 3S-16               | A5 | 14 | 14 | 39 | M16*2    | 3-M10 | 3-M6  | 73   | 20 | 18   | 7.5  | 31 | 12    |
| 3S-08               | A5 | 20 | 17 | 41 | M20*2.5  | 3-M12 | 6-M10 | 95   | 25 | 22.3 | 11.8 | 35 | 14    |
|                     | A6 |    | 18 |    |          | 3-M6  | 3-M6  |      |    |      |      |    |       |
| 3S-10               | A6 | 18 | 18 | 46 | M20*2.5  | 6-M16 | 6-M12 | 110  | 30 | 30.8 | 11.3 | 40 | 16    |
|                     | A8 |    |    |    |          |       | 25    |      |    |      |      |    |       |
| 3S-12               | A6 | 18 | 18 | 51 | M20*2.5  | 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<br>Specification | 楔心行程<br>mm<br>Wedge core travel | 爪行程直径<br>mm<br>Jaw stroke t<br>(Diameter) | 许用推拉力<br>KN(kgf)<br>Permitted push-pull force | 最大夹紧力<br>KN(kgf)<br>Max. gripping force | 极限转速<br>r/min<br>Limited rotating speed (r/min) | 夹紧范围<br>mm<br>Clamping range | 惯量<br>Inertia<br>Kg.m² | 净重 kg<br>Net weight | 推荐油缸<br>Recommended oil cylinde | 最大使用压力<br>MPa(kgf)<br>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                  | SY-100                          | 3.0(30)                                         |
| 3S-08               | A5                              | 21                                        | 8.8                                           | 25(2550)                                | 4750                                            | 17-210                       | 0.14                   | 24                  | SY-125                          | 2.6(26)                                         |
|                     | A6                              |                                           |                                               |                                         |                                                 |                              |                        | 28                  |                                 |                                                 |
| 3S-10               | A6                              | 25                                        | 8.8                                           | 28.9(2950)                              | 4000                                            | 22-254                       | 0.30                   | 35                  | SY-125<br>SQ-1708               | 3.0(30)                                         |
|                     | A8                              |                                           |                                               |                                         |                                                 |                              |                        | 42                  |                                 |                                                 |
| 3S-12               | A6                              | 30                                        | 10.5                                          | 41(4180)                                | 3360                                            | 22-304                       | 0.73                   | 59                  | SY-150                          | 3.0(30)                                         |
|                     | A8                              |                                           |                                               |                                         |                                                 |                              |                        | 65                  |                                 |                                                 |





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.

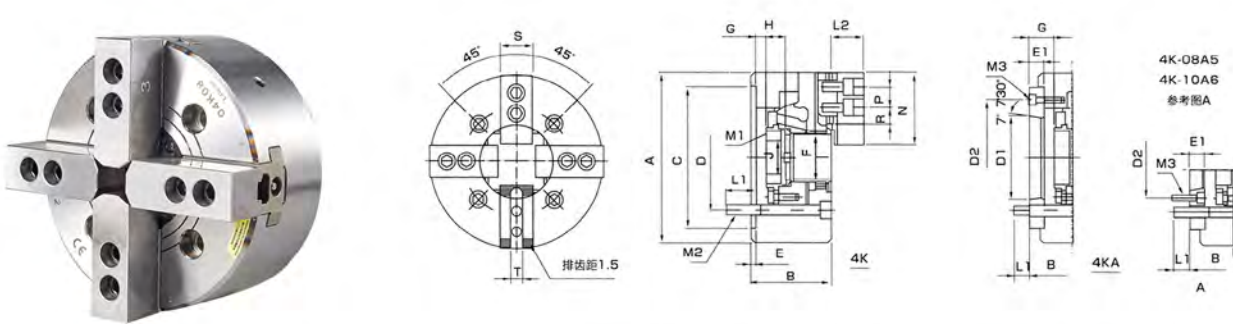
尺寸参数

| 规格<br>Specification |    | A   | B   |     | C<br>(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  | -1.5 | 21.5 | 20.5 | 30 |
|                     | A6 |     |     | 103 |           |       | 150   | 17    |   |    |     |      |       |      |      |      |    |
| 4K-10               | A6 | 254 | 100 | 120 | 220       | 171.4 | 133.4 | 25    |   | 75 | 8.5 | 33.5 | -10.5 | 14.5 | 25   | 45   |    |
|                     | A8 |     |     | 113 |           |       | 190   | 18    |   |    |     |      |       |      |      |      |    |

| 规格<br>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<br>Specification |    | 楔心行程<br>mm<br>Wedge core<br>travel | 爪行程直径<br>mm<br>Jaw stroke t<br>(Diameter) | 许用推力<br>KN(kgf)<br>Permitted push-<br>pull force | 最大夹紧力<br>KN(kgf)<br>Max. gripping force<br>KN(kgf) | 极限转速<br>r/min<br>Limited rotating<br>speed (r/min) | 夹紧范围<br>mm<br>Clamping range | 惯量<br>Kg.m²<br>Inertia | 净重 kg<br>Net weight | 推荐油缸<br>Recommended oil<br>cylinde | 最大使用压力<br>MPa(kgf)<br>Max. application<br>pressure |
|---------------------|----|------------------------------------|-------------------------------------------|--------------------------------------------------|----------------------------------------------------|----------------------------------------------------|------------------------------|------------------------|---------------------|------------------------------------|----------------------------------------------------|
| 4K-06               | A5 | 12                                 | 5.5                                       | 21.5(2200)                                       | 56.8(5800)                                         | 6000                                               | 15-168                       | 0.06                   | 11.9                | KY-646                             | 2.8(28)                                            |
| 4K-08               | A5 | 16                                 | 7.4                                       | 34.3(3500)                                       | 85.8(8750)                                         | 5000                                               | 13-210                       | 0.18                   | 25.4                | TK-852                             | 2.8(28)                                            |
|                     | A6 |                                    |                                           |                                                  |                                                    |                                                    |                              |                        | 23.6                |                                    |                                                    |
| 4K-10               | A6 | 19                                 | 8.8                                       | 42.6(4380)                                       | 110.7(11300)                                       | 4200                                               | 31-254                       | 0.33                   | 41.5                | KY-1075                            | 2.7(27)                                            |
|                     | A8 |                                    |                                           |                                                  |                                                    |                                                    |                              |                        | 40                  |                                    |                                                    |



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。

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.

尺寸参数

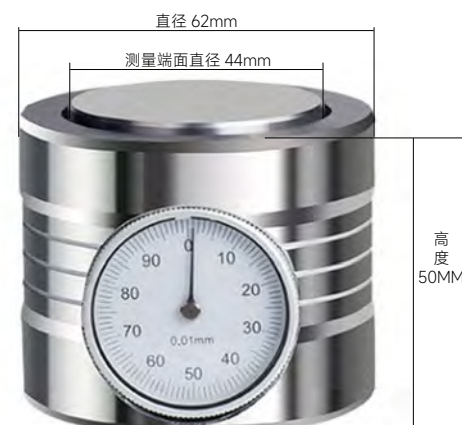
| 规格<br>Specification |     | A   | B      |        | C<br>(H6) | D     | D1    | D2    | E | E1    | F   | G     |      |      |      | H  | J   |
|---------------------|-----|-----|--------|--------|-----------|-------|-------|-------|---|-------|-----|-------|------|------|------|----|-----|
|                     |     |     |        |        |           |       |       |       |   |       |     | 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  |
|                     | A5  |     |        | 103    |           |       |       | 170   |   | 133.4 |     | 104.8 | 23   | 127  | 104  |    | 83  |
| 4S-08               | A6  | 97  | 106.38 | 150    | 17        | 25    |       |       |   |       | 110 | 108   |      |      |      |    |     |
|                     | A6  | 254 | 89     | 109    | 220       | 171.4 |       | 133.4 |   | 25    | 34  | 158   | 133  | 133  | 110  |    | 115 |
| A8                  | 102 |     |        | 139.72 |           |       |       | 190   |   | 18    |     |       |      |      |      |    |     |

| 规格<br>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 |    |    |    |         | 3-M6  |       |     |    |      |      |    |    |
| 4S-10               | A6 | 18 | 18 | 46 |         | 4-M16 | 6-M12 | 110 | 30 | 30.8 | 11.3 | 40 | 16 |
|                     | A8 |    | 24 |    |         |       | 3-M8  |     |    |      |      |    |    |

性能参数

| 规格<br>Specification |    | 楔心行程<br>mm<br>Wedge core<br>travel | 爪行程直径<br>mm<br>Jaw stroke t<br>(Diameter) | 许用推力<br>KN(kgf)<br>Permitted push-<br>pull force | 最大夹紧力<br>KN(kgf)<br>Max. gripping force<br>KN(kgf) | 极限转速<br>r/min<br>Limited rotating<br>speed (r/min) | 夹紧范围<br>mm<br>Clamping range | 惯量<br>Kg.m²<br>Inertia | 净重 kg<br>Net weight | 推荐油缸<br>Recommended oil<br>cylinde | 最大使用压力<br>MPa(kgf)<br>Max. application<br>pressure |
|---------------------|----|------------------------------------|-------------------------------------------|--------------------------------------------------|----------------------------------------------------|----------------------------------------------------|------------------------------|------------------------|---------------------|------------------------------------|----------------------------------------------------|
| 4S-06               | A5 | 20                                 | 9.2                                       | 17.9(1830)                                       | 52.4(5350)                                         | 5250                                               | 14-165                       | 0.05                   | 13                  | SY-100                             | 3.0(30)                                            |
| 4S-08               | A5 | 21                                 | 9.7                                       | 25(2590)                                         | 74.5(7600)                                         | 4750                                               | 17-210                       | 0.14                   | 28                  | SY-125                             | 2.6(26)                                            |
|                     | A6 |                                    |                                           |                                                  |                                                    |                                                    |                              |                        | 27                  |                                    |                                                    |
| 4S-10               | A6 | 25                                 | 8.8                                       | 28.9(2950)                                       | 107.8(11000)                                       | 4000                                               | 22-254                       | 0.3                    | 42                  | SQ-170B                            | 3.0(30)                                            |
|                     | A8 |                                    |                                           |                                                  |                                                    |                                                    |                              |                        | 40                  |                                    |                                                    |



**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:  $0.01\text{mm}$
- 5、重量:  $1.82\text{KG}$
- 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:  $0.005\text{mm}$
- 5、可吸附做水平和垂直使用
- 6、重量:  $0.5\text{kgs}$



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:**

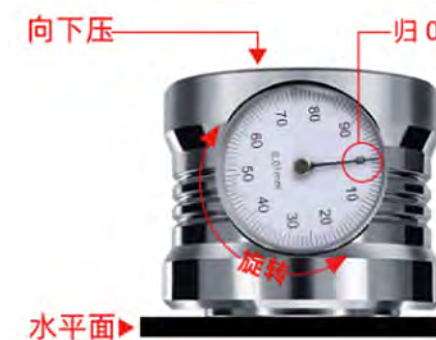
- 1、Mechanical dial design, large measuring surface, and easy to operate
- 2、Low spring force can prevent small milling cutters and drill bits from breaking
- 3、Height tolerance value:  $\pm 0.0\text{mm}$  can be adsorbed on a horizontal surface for use
- 4、Precision measurement value:  $0.01\text{mm}$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

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

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



Rotate the dial to turn zero to the top



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

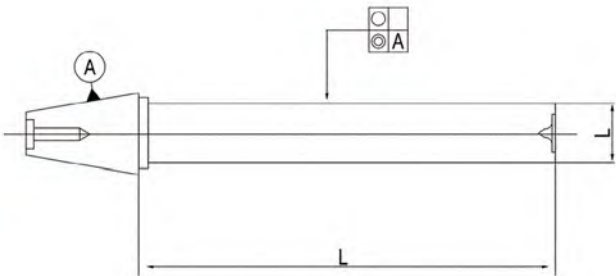
**Digital Z-Axis Scale Zero Setters****Characteristic:**

- 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:  $\pm 0.05\text{mm}$

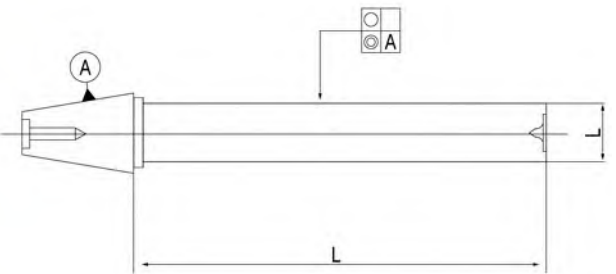


Rotate the dial indicator pointer to zero and start calibration

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  $550\text{mm}$



| Model         | D  | L   | 圆柱度<br>Cylindricity | 同轴度<br>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                |



| Model              | D  | L   | 圆柱度<br>Cylindricity | 同轴度<br>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/<br>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



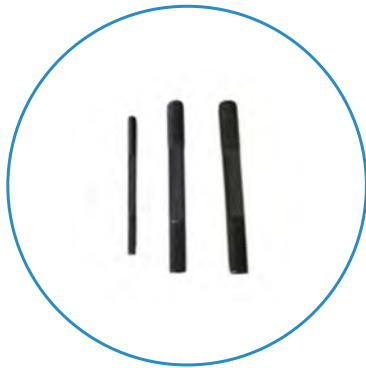
T 型螺母 6 个  
T-Nuts 6Pcs



连接螺母 4 个  
Coupling Nuts 4Pcs

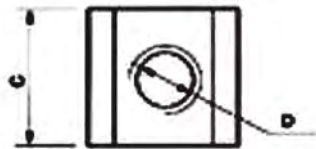
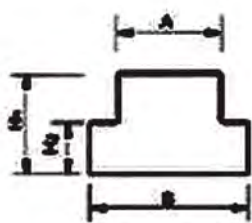


法兰螺母 6 个  
Flange Nuts 6Pcs



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   |



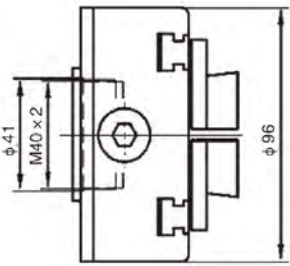
M18- M24

| 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

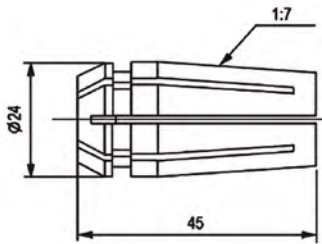


| Model | Clamping | Thread Connection               | Wt.   |
|-------|----------|---------------------------------|-------|
| 4"    | 8-60mm   | M33×3.5;M40×2;1"-1/8TPI         | 2.3/3 |
| 5"    | 20-100mm | M33×3.5;M40×2;1"-10TPI;1"-1/4-8 | 4.2/5 |

滚花刀 Hobbing cutter



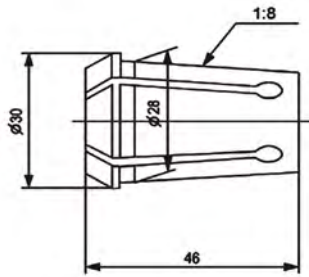
| 花纹类型 Grain type      | 轮径 Wheel(mm ) | 规格 Size(mm)                                               |
|----------------------|---------------|-----------------------------------------------------------|
| 直纹<br>Stralght grain | 19            | 0.5-0.6-0.8-1.0-1.2-1.6-2.0mm                             |
|                      | 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<br>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"  |         |             |       |

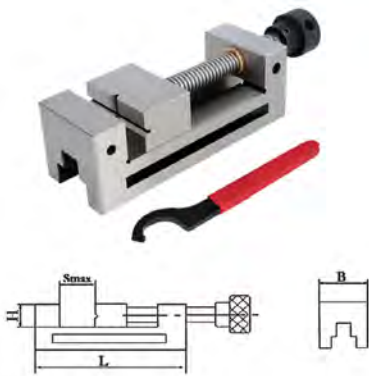
J7316B 铣夹头套装 J7316B Collets & Chuck Sets



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"  |         |             |       |





| 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 |



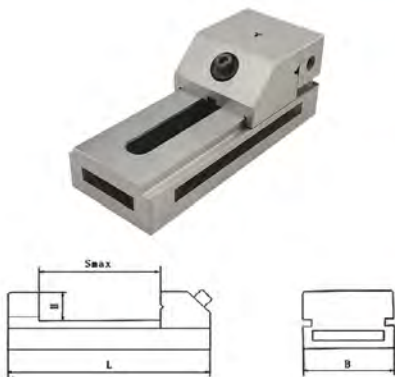
Performance and character 性能及特点

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 slots,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     |



| 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 |



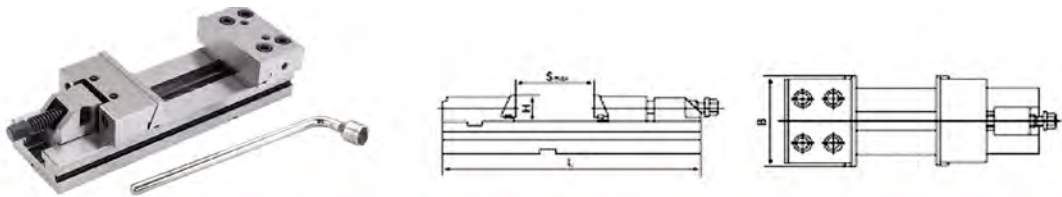
Performance and character:性能及特点

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     |



| 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          |



| 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     |





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     |



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     |



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     |

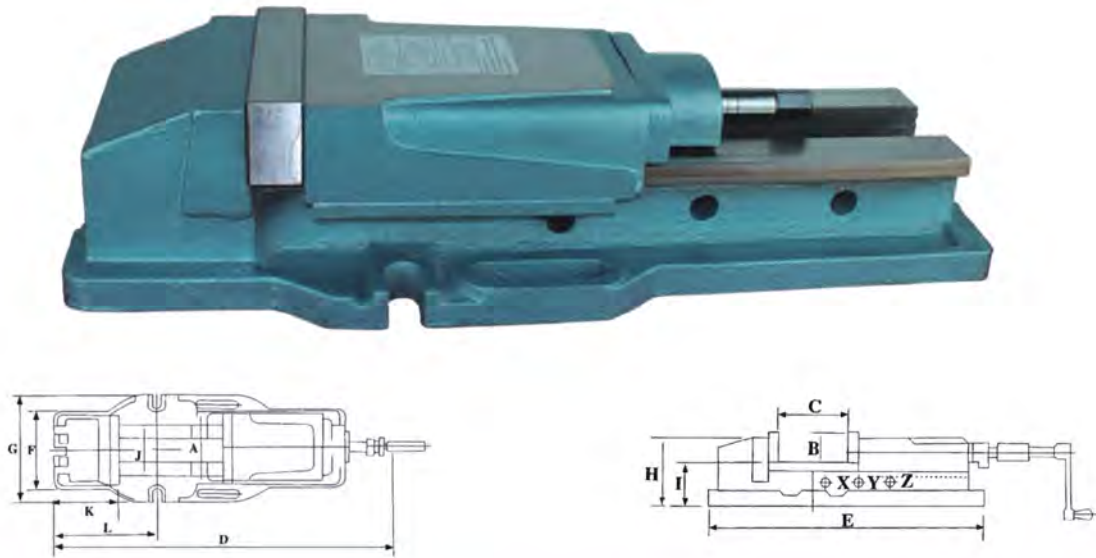


Erformance and character 性能及特点

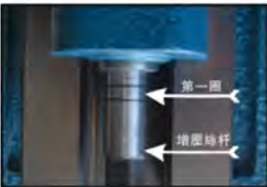
- 由延展性较强的铸铁制作而成（球墨铸铁 200）
- It is made of ductile cast iron(HT200).
- 两钳口的平行度是 0.025mm/100mm，两钳口对导轨面的垂直度是 0.025mm。 The accuracy of vice is parallelism at 0.025mm/100mm and squareness at 0.025.
- 平口钳可单台使用，也可多台并排使用。 The vice can be used with single or settled side by side on the machine Worktable.
- 广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

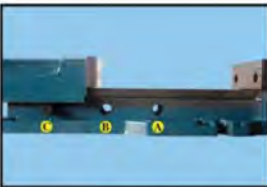




| Model | A   | B  | C   | D   | E   | F   | G   | H   | I   | J   | K   | L   | Weight | Power | 装箱尺寸        |
|-------|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-------|-------------|
| HP-5  | 125 | 46 | 220 | 670 | 540 | 165 | 185 | 118 | 72  | 97  | 117 | 185 | 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



不易被钳住比如薄空心管容易扁，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<br>parameter name  | 参数<br>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    |  |            |



### 83 重型活动带砧式台钳

83 Type Heavy Duty Bench Vices With Anvil Swivel Base

OLICNC®



| 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     |

### 89 轻型活动带砧式台钳

89 Type Light Duty Bench Vices With Anvil Swivel Base

OLICNC®



| 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     |

### 83 重型固定带砧式台钳

83 Type Heavy Duty Bench Vices With Anvil Stationary Base

OLICNC®



| 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     |

### 89 轻型固定带砧式台钳

89 Type Light Duty Bench Vices With Anvil Stationary Base

OLICNC®



| 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     |

### 83 重型活动无砧式台钳

83 Type Heavy Duty Bench Vices Without Anvil Swivel Base

OLICNC®



| 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     |

### 89 轻型活动无砧式台钳

89 Type Light Duty Bench Vices With Anvil Stationary Base

OLICNC®



| 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     |

### 83 重型固定无砧式台钳

83 Type Heavy Duty Bench Vices Without Anvil Stationary Base

OLICNC®



| 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 轻型固定无砧式台钳

89 Type Light Duty Bench Vices Without Anvil Stationary Base

OLICNC®



| 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

OLICNC®



| Model | Size | Width of jaw | QTY/Case | G.W./N.W. |
|-------|------|--------------|----------|-----------|
| 9604  | 4"   | 100          | 4        | 22/20     |
| 9605  | 5"   | 125          | 2        | 17/15     |
| 9606  | 6"   | 150          | 1        | 12/11     |
| 9608  | 8"   | 200          | 1        | 24/22     |

## Q19 德式钻床平口钳

Q19 German Type Drilling Machine Vices

OLICNC®



| Model  | Width of jaw | Max.Opening | G.W./N.W     |
|--------|--------------|-------------|--------------|
| Q1975  | 75           | 50          | 23/21(10PCS) |
| Q19100 | 100          | 75          | 36/34(10PCS) |
| Q19125 | 125          | 100         | 25/23(5PCS)  |
| Q19150 | 150          | 125         | 32/30(5PCS)  |
| Q19200 | 200          | 175         | 24/23(2PCS)  |

## 96 超轻型固定带砧式台钳

96 Type Super Light Duty Bench Vices With Anvil Stationary Base

OLICNC®



| Model | Size | Width of jaw | QTY/Case | G.W./N.W. |
|-------|------|--------------|----------|-----------|
| 9624  | 4"   | 100          | 4        | 22/20     |
| 9625  | 5"   | 125          | 2        | 17/15     |
| 9626  | 6"   | 150          | 1        | 12/11     |
| 9628  | 8"   | 200          | 1        | 24/22     |

## Q19 丝杠缩入式平口钳

Q19E Gulid-Screw Leading-in Drilling Vices

OLICNC®



| Model   | Width of jaw | Max.Opening | G.W./N.W     |
|---------|--------------|-------------|--------------|
| Q1985E  | 85           | 60          | 22/21(10PCS) |
| Q19100E | 100          | 75          | 35/33(10PCS) |
| Q19120E | 120          | 100         | 24/22(5PCS)  |
| Q19150E | 150          | 125         | 32/30(5PCS)  |

## 93 美式活动带砧台钳

93 American Type Bench Vices With Anvil Swivel Base

OLICNC®



| Model | Size | Width of jaw | QTY/Case | G.W./N.W. |
|-------|------|--------------|----------|-----------|
| 9303  | 3.5" | 87.5         | 6        | 30/27     |
| 9304  | 4"   | 100          | 4        | 21.5/19   |

## Q19A 美式钻床平口钳

Q19A American Type Drilling Machine Vices

OLICNC®



| Model     | Width of jaw | Max.Opening | G.W./N.W      |
|-----------|--------------|-------------|---------------|
| Q192-1/2A | 67           | 70          | 21/19 (10PCS) |
| Q193A     | 78           | 78          | 24/22 (10PCS) |
| Q194A     | 100          | 110         | 33/32 (10PCS) |
| Q195A     | 125          | 128         | 22/21 (5PCS)  |
| Q196A     | 150          | 150         | 30/28 (5PCS)  |

## 95 美式活动带砧台钳

95 American Type Bench Vices With Anvil Swivel Base

OLICNC®



| Model | Size | Width of jaw | Max.Opening | QTY/Case | G.W./N.W. |
|-------|------|--------------|-------------|----------|-----------|
| 9504  | 4"   | 100          | 127         | 2        | 28/26     |
| 9505  | 5"   | 125          | 152         | 1        | 19/18     |
| 9506  | 6"   | 150          | 178         | 1        | 29/27     |

## SY 手板压力机

SY Arbor Presses

OLICNC®



| Model | Width of jaw | KN   | Opening | G.W./N.W |
|-------|--------------|------|---------|----------|
| 0.5t  | 5            | 500  | 90      | 11/10    |
| 1t    | 10           | 1000 | 110     | 17/16    |
| 2t    | 20           | 2000 | 180     | 39/38    |
| 3t    | 30           | 3000 | 285     | 69/67    |
| 5t    | 50           | 5000 | 430     | 176/154  |



1. 硬度: HRC55 ~ 62 1.Hardeness: HRC55 ~ 62  
2. 精度: 0.01mm 2.Accuracy: 0.01mm  
3. 平行度: 0.005mm 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   |



1. 硬度: HRC55 ~ 62 1.Hardeness: HRC55 ~ 62  
2. 精度: 0.01mm 2.Accuracy: 0.01mm  
3. 平行度: 0.005mm 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(16,20,24,30,32,36,40,44) | 9×2    |



1. 硬度: HRC55 ~ 62 1.Hardeness: HRC55 ~ 62  
2. 精度: 0.01mm 2.Accuracy: 0.01mm  
3. 平行度: 0.005mm 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) |        |



1. 硬度: HRC55 ~ 62 1.Hardeness: HRC55 ~ 62  
2. 精度: 0.01mm 2.Accuracy: 0.01mm  
3. 平行度: 0.005mm 3.Parallelism: 0.005mm

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

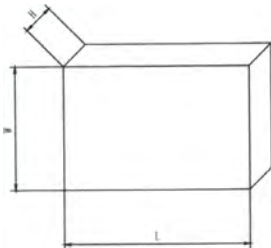


1. 硬度: HRC55 ~ 62 1.Hardeness: HRC55 ~ 62  
2. 精度: 0.01mm 2.Accuracy: 0.01mm  
3. 平行度: 0.005mm 3.Parallelism: 0.005mm

| 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   |



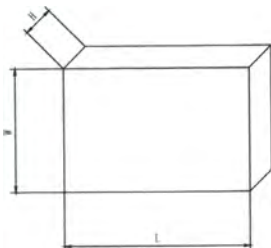
1×2×3"BLOCKS



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"               |        |

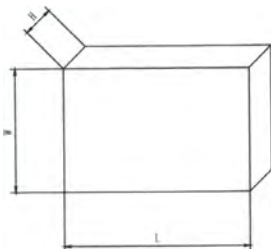
1×2×3"BLOCKS



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    |

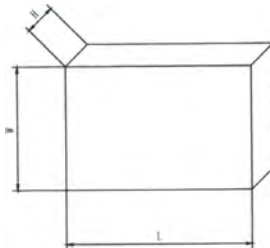
1×2×3"BLOCKS



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"               |        |

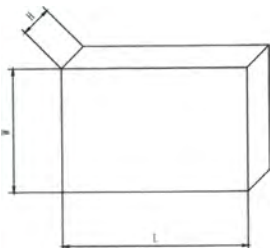
2×3×4"BLOCKS



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"               | 23 孔   |
| ZT01-10  |                 | 0.0003"/1"     |                        |        |

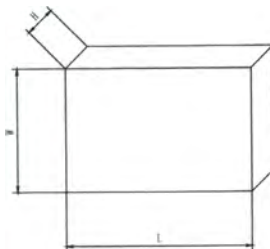
2×4×6"BLOCKS



Precision Ground Hardened  
Hardness: HRC55-62.

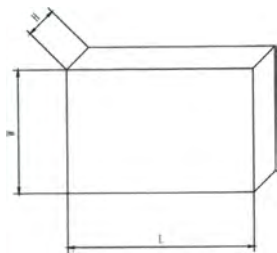
| Model No | 规格 Size (H×W×L) | 垂直度 Squareness | 尺寸公差 Tolerance of size | 孔 Hole |
|----------|-----------------|----------------|------------------------|--------|
| ZT01-11  | 2×4×6"          | 0.0003"/1"     | ±0.0005"               | 23 孔   |

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   |



Hardness: HRC55-62.

| 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 )<br>Pole distance | 吸力<br>(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         |



○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 )<br>pole distance | 吸力<br>(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 in Taiwan.
- It can sharpen the tip angle (apex angle), front cutting edge (positive rake angle), chip flute (rear angle), and the size of the center 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 computer engraving knife and engraving milling machine.
- u3 universal knife sharpener also has the functions and devices for sharpening drills, turning tools, and ball end mills. The maximum clamping diameter can reach 16.

| Model                | U2                   |
|----------------------|----------------------|
| 夹头直径 Collet diameter | 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

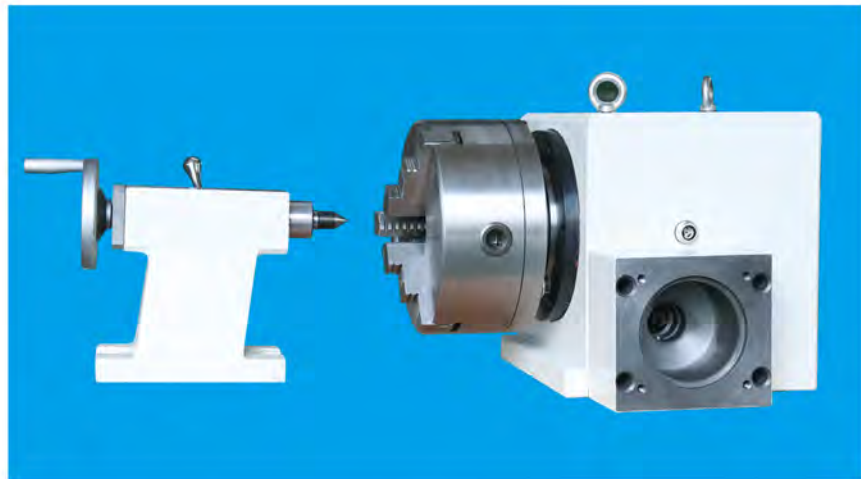


产品性能 Product Performance  
电磁起重器适用于搬运铁锭，钢球、钢卷及各种废铁，起重能力强，可遥控操作，使用安全方便。增加工作效率，降低劳动强度。广泛应用于工厂、货场对钢铁重物做吸持起吊搬运之用。  
Electro Magnetic Lifter used for handling ingots, steel balls, coils and all kinds of scrap iron, strong lifting, remote control operation, use safe and convenient. Increase work efficiency,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

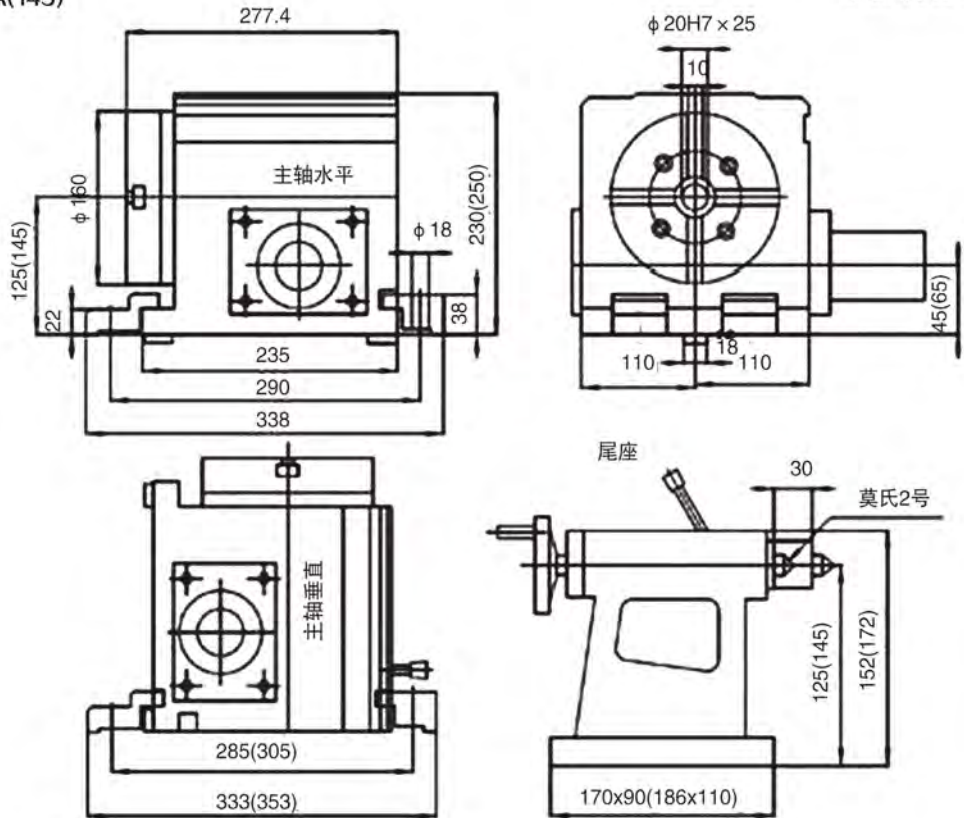
规格参数：MAIN SPECIFICATIONS

| 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 <sub>1</sub> 6       | A <sub>1</sub> 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 Pa     | 4-6x10 <sup>5</sup> Pa | 4-6x10 <sup>5</sup> 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                     |

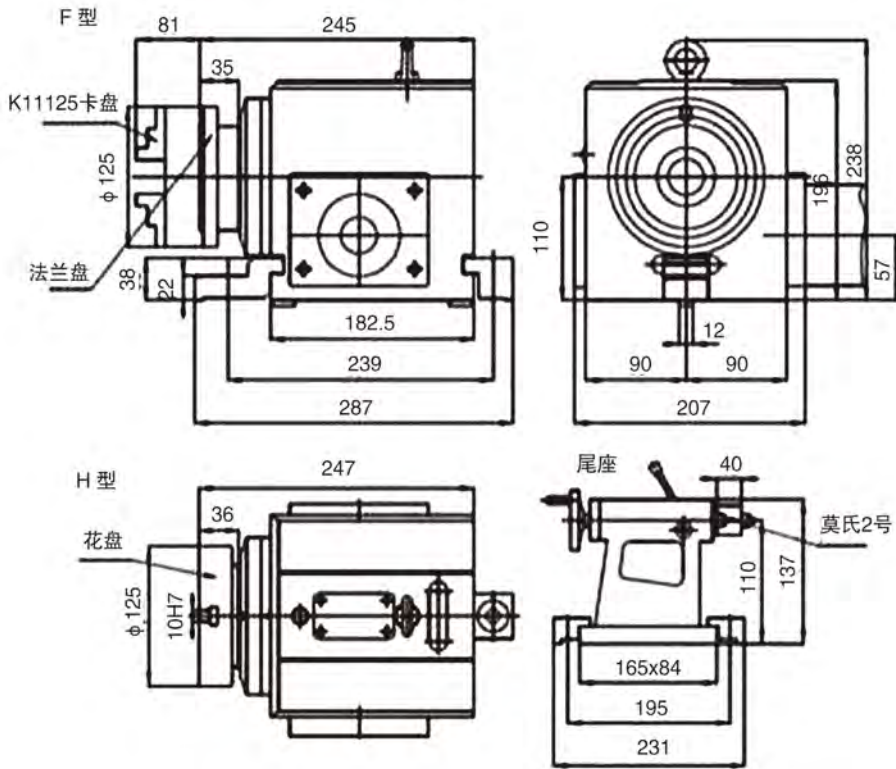
◆ 以上参数以实物为准，如有变动，最终解释权归本公司。

安装尺寸图 DIMENSIONAL SKETCH

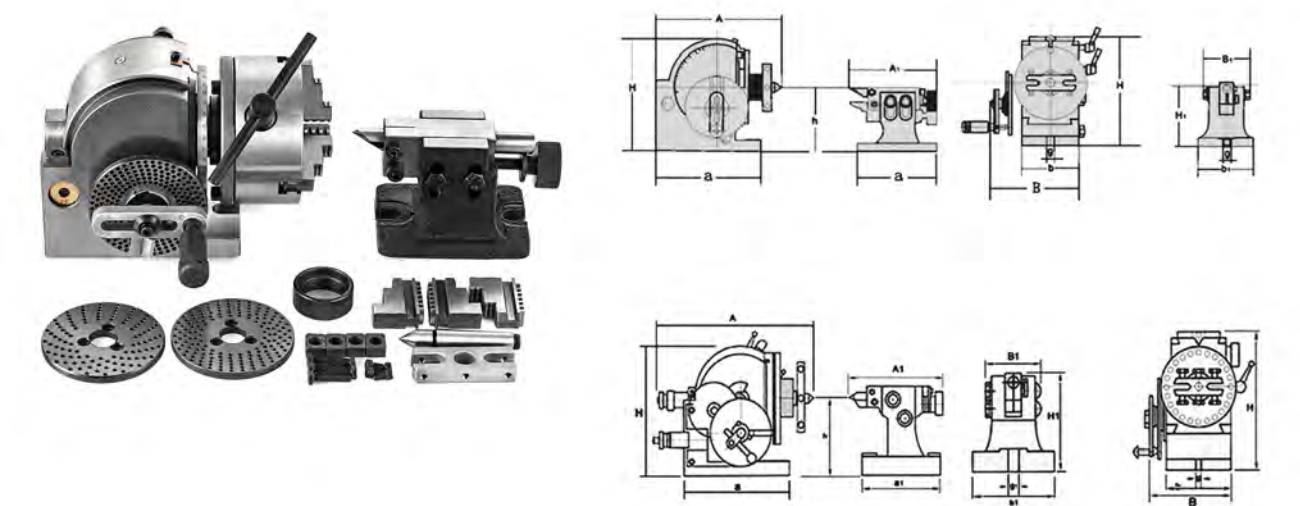
FK15125A(145)



FK15110A







SEMI-UNIVERSAL INDEX CENTERS

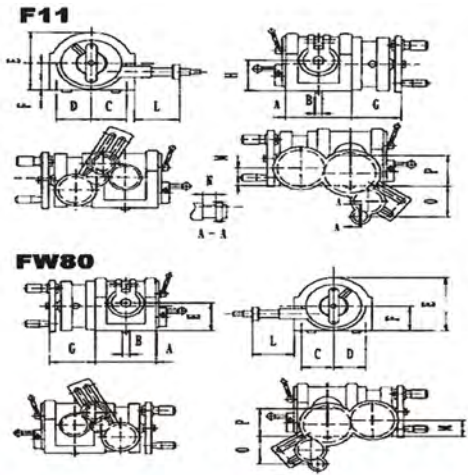
| Model | A   |      | B   |       | H   |      | h   |      | Taper of Center | N.W. | Matched chucks |
|-------|-----|------|-----|-------|-----|------|-----|------|-----------------|------|----------------|
| BS0   | 193 | 7.59 | 131 | 5.15  | 173 | 6.81 | 100 | 3.93 | MT2             | 23   | 100mm          |
| 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<br>● 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,<br>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<br>CS–6” ,8”     |
|       |                 | B2                | 63,69,73,79,83,89,93,99    |                                  |



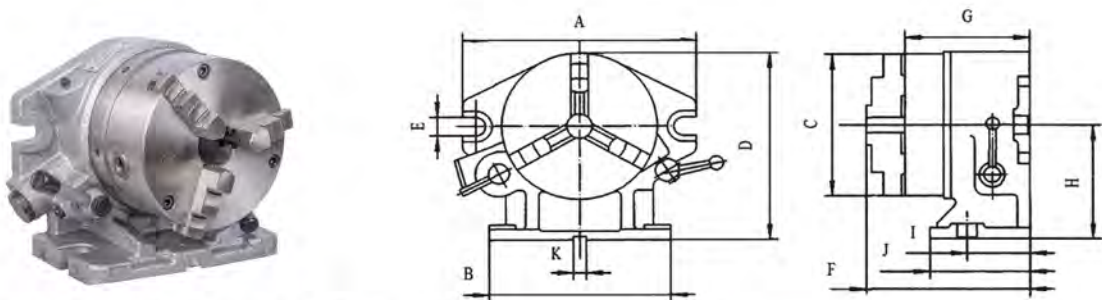
FW80、F11 Series Installation Sketch and Dimensions:

| 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<br>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<br>Horizontal position (downward)                                          |  |                  |  | ≤6°                               | ≤5°     |         |         |
| 分度手轮每转，主轴回转角度<br>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<br>Diameter of short taper of Sindle-nose for mounting flange mm              |  |                  |  | Φ36.541                           | Φ41.275 | Φ53.975 | Φ53.975 |
| 分度盘孔数<br>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 |

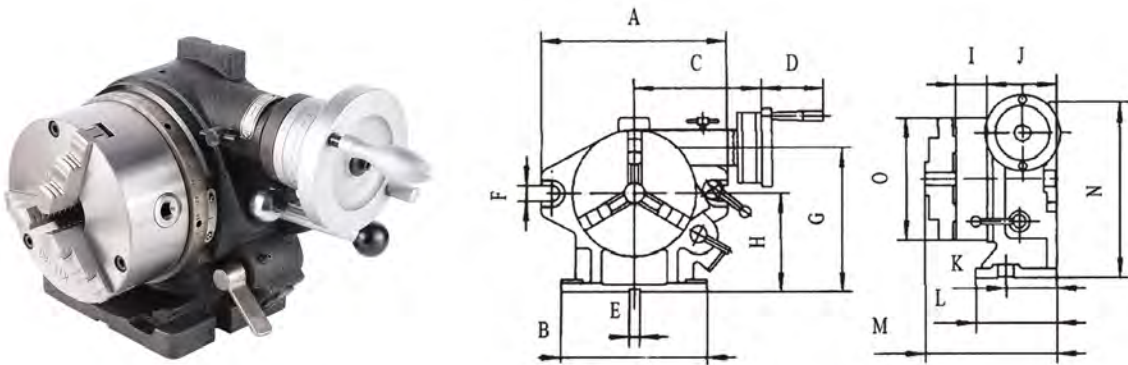
Main specifications

| 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）<br>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



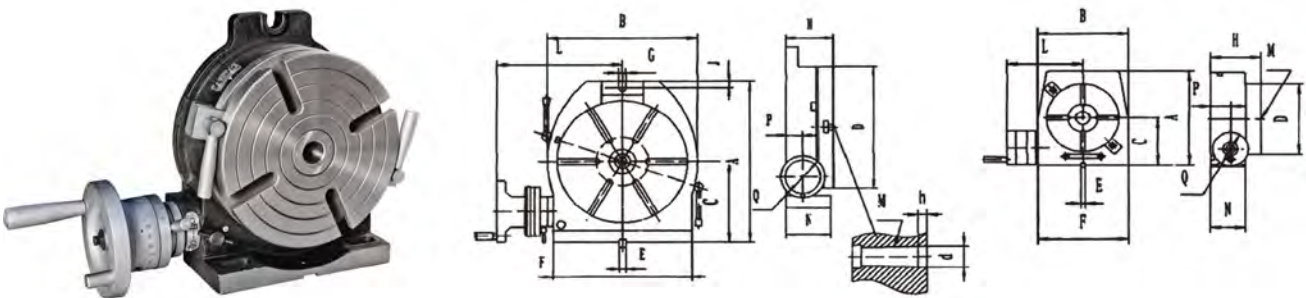
Installation Sketch and Dimensions:

| 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

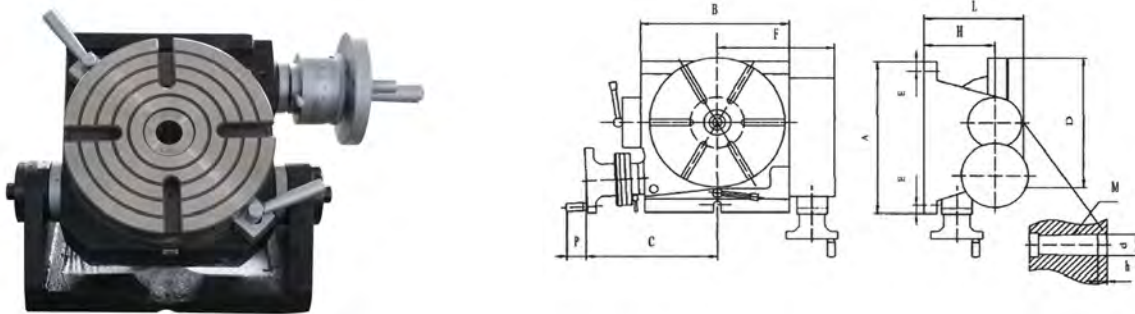
| Items                                                             | Specifications | F3-8            | F3-6        |
|-------------------------------------------------------------------|----------------|-----------------|-------------|
| 中心高 Center height mm                                              |                | 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<br>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

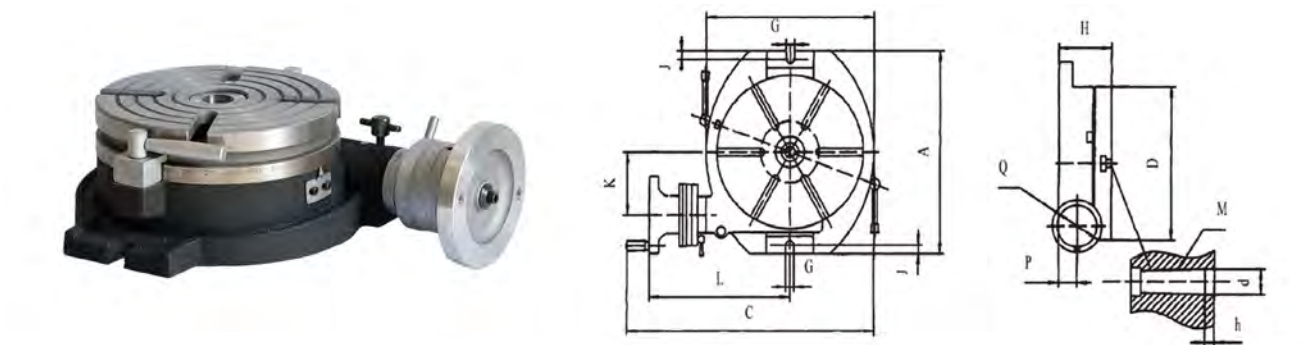
| Specifications<br>Items                          | HV-4" | HV-6" | HV-8" | HV-10" | HV-12" | HV-16" |
|--------------------------------------------------|-------|-------|-------|--------|--------|--------|
| 工作台直径 Diameter of table mm                       | Φ100  | Φ160  | Φ200  | Φ250   | Φ320   | Φ400   |
| 台面中心孔锥度（莫式）<br>Morse taper of the center hole    | 2#    |       | 3#    |        | 4#     |        |
| 台面定位孔直径<br>Diameter of the center hole mm        | Φ20×8 | Φ25×6 | Φ30×6 |        | Φ40×10 |        |
| 工作台垂直时中心高<br>Height of center for Vert. mounting | 70    | 125   | 150   | 170    | 210    | 260    |
| 台面 T 型槽宽度<br>Width of the T-slot mm              | 6     | 10    | 12    |        | 14     |        |
| 台面 T 型槽相邻角度<br>Adjacent angle of table T-slot    | 90°   |       |       | 60°    |        |        |
| 定位键宽度<br>Width of locating key mm                | 10    | 12    | 14    |        | 18     |        |
| 蜗轮副模数<br>Module of the worm gear                 | 1     | 1.5   | 1.75  | 2      | 2.5    | 3.5    |
| 蜗轮副转动比<br>Transmission ratio of the worm gear    | 1:72  | 1:90  |       |        |        |        |
| 工作台圆周刻度<br>Graduation of the table               | 360°  |       |       |        |        |        |
| 转台手轮刻度值<br>Readout of the handwheel              | 2´    | 1´    |       |        |        |        |
| 游标量小示值<br>Minimum reading of the vernier         | 10"   |       |       |        |        |        |
| 分度精度 Indexing accuracy                           | 120"  | 80"   | 60"   |        |        |        |
| 最大承载（卧式）<br>Max.bearing(with table Hor.)kg       | 150   | 100   | 150   | 200    | 250    | 300    |
| 最大承载（立式）<br>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）<br>Morse taper of the center hole       |                | 2#     | 3#     |        | 4#     |        |
| 台面定位孔直径<br>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<br>Adjacent angle of table T-slot       |                | 90°    |        | 60°    |        |        |
| 蜗轮副转动比<br>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<br>Readout of the hand wheel                |                | 1'     |        |        |        |        |
| 游标量小示值<br>Minimum reading of the vernier            |                | 10"    |        |        |        |        |
| 可倾游标量最小示值<br>Minimum reading of the tilting vernier |                | 2'     |        |        |        |        |
| 分度精度 Indexing accuracy                              |                | 8"     | 60"    |        |        |        |
| 最大承载（卧式）<br>Max. bearing(with table Hor.)kgs        |                | 100    | 150    | 200    | 250    | 300    |
| 最大承载（立式）<br>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<br>Items                                                 | TS160A                | TS200A | TS250A | TS320A | TS400A | TS500A                | TS630A  | TS800A  | TS1000A |
|-------------------------------------------------------------------------|-----------------------|--------|--------|--------|--------|-----------------------|---------|---------|---------|
| 工作台直径<br>Table diameter mm                                              | Φ160                  | Φ200   | Φ250   | Φ320   | Φ400   | Φ500                  | Φ630    | Φ800    | Φ1000   |
| 台面中心孔锥度<br>Morse taper of the hole mm                                   | 2#                    | 3#     |        | 4#     |        | 5#                    |         | 6#      |         |
| 台面 T 型槽宽度<br>Width of the T-slot mm                                     | 10                    | 12     |        | 14     |        | 18                    |         | 22      |         |
| 台面 T 型槽相邻角度<br>Adjacent angle of table T-slot                           | 90°                   | 60°    |        |        |        | 45°                   |         |         |         |
| 蜗轮副转动比<br>Transmission ratio of the worm gear                           | 1:90                  |        |        |        |        | 1:120                 |         |         |         |
| 工作台圆周刻度<br>Graduation of the table                                      | 360°                  |        |        |        |        |                       |         |         |         |
| 蜗轮每转所代表的转台度数<br>Rotating angle of table with one revolution of the worm | 4°(1' per graduation) |        |        |        |        | 3°(1' per graduation) |         |         |         |
| 游标量小示值<br>Minimum value of vernier                                      | 10''                  |        |        |        |        |                       |         |         |         |
| 分度精度 Indexing accuracy                                                  | 80''                  | 60''   |        |        |        |                       |         |         |         |
| 工作台最大承载<br>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<br>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.



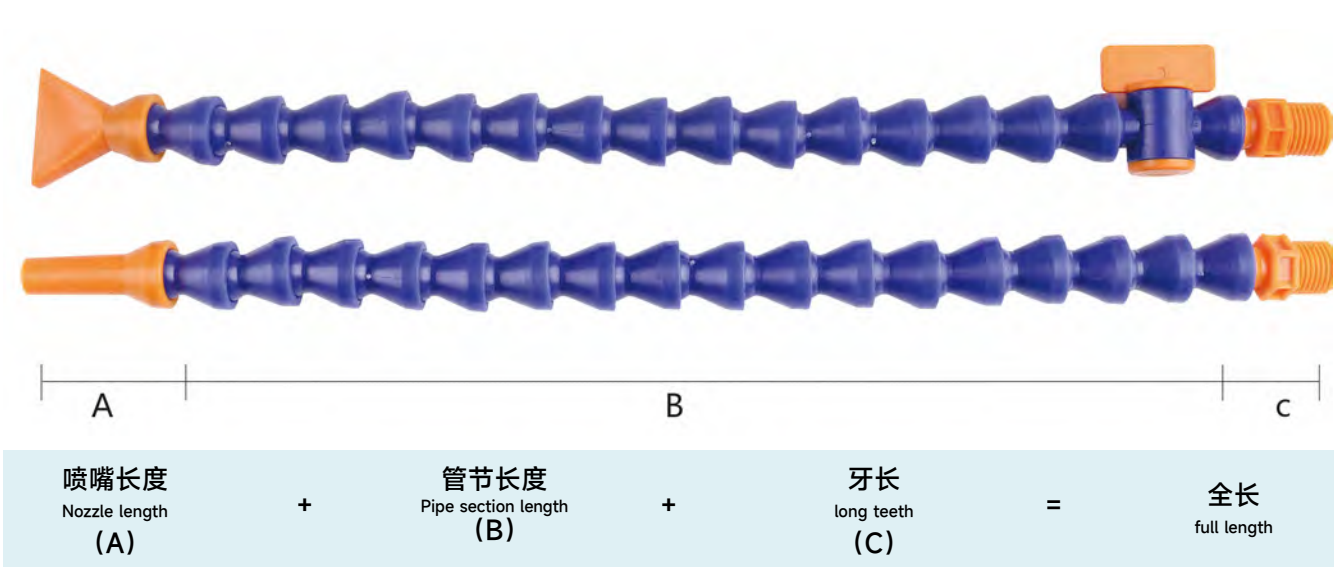
细圆嘴 Thin round mouth

粗圆嘴 Thick round mouth

扁嘴 Flat mouth



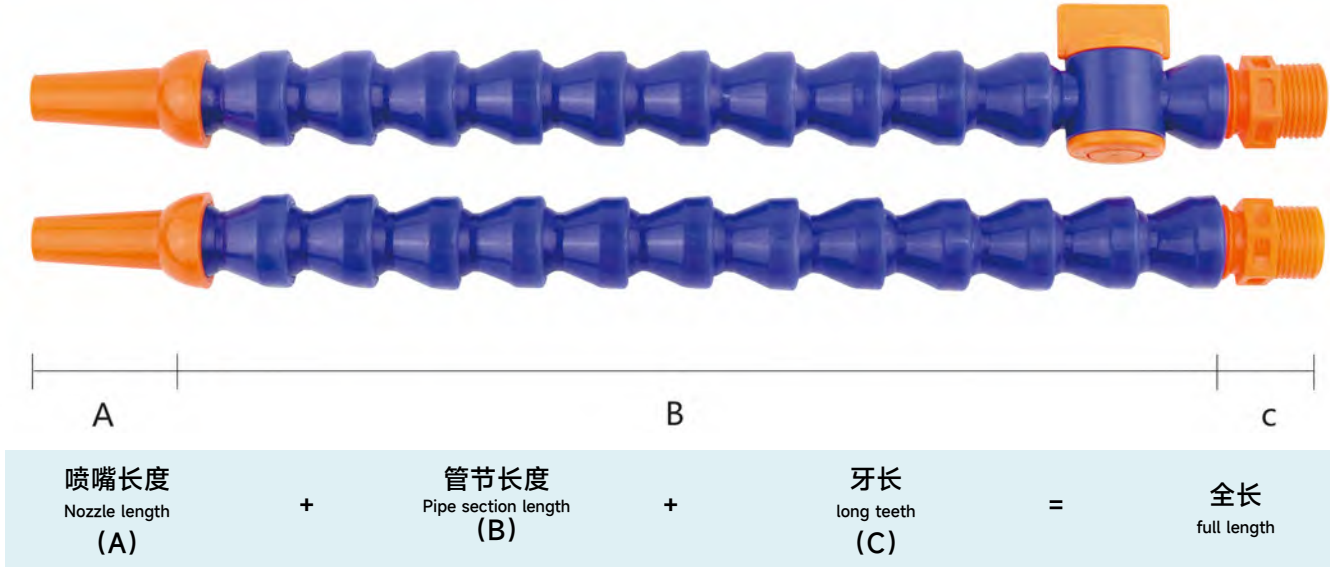
塑料冷却水管组合长度计算方法  
Calculation method for combined length of plastic cooling water pipes



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)

|  |                                                                                                                                               |  |                                                                                                                                                                   |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | 1/4 调节阀<br>1/4 regulating valve                                                                                                               |  | 1/4 小口径圆形喷嘴<br>出水口内直径: 4mm<br>喷嘴高度: 35mm<br><br>1/4 small diameter round nozzle<br>Inner diameter of water outlet: 4mm<br>Nozzle height: 35mm                     |
|  | 1/4 大口径圆形喷嘴<br>出水口宽度: 28mm<br>喷嘴高度: 29mm<br><br>1/4 large diameter round nozzle<br>Outlet width: 28mm<br>Nozzle height: 29mm                  |  | 1/4 螺纹接头<br>高度: 22mm<br>螺纹规格: 1/4 2 分<br>螺纹直径: 约 13mm<br><br>1/4 thread connector<br>Height: 22mm<br>Thread specification: 1/4 2 "<br>Thread diameter: about 13mm |
|  | 1/4 大口径圆形喷嘴<br>出水口内直径: 7mm<br>喷嘴高度: 35mm<br><br>1/4 large diameter round nozzle<br>Inner diameter of water outlet: 7mm<br>Nozzle height: 35mm |  |                                                                                                                                                                   |

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

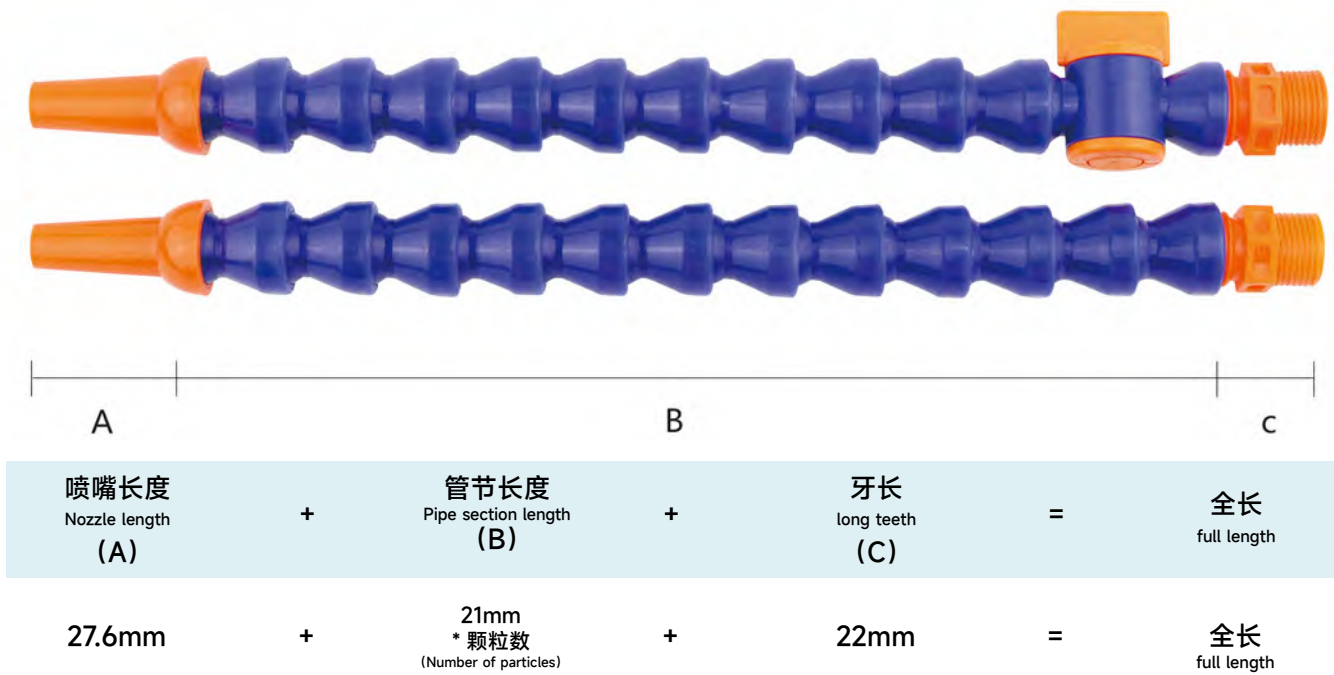


塑料冷却水管配件组配表 (可根据要求任意长度管件组装)  
plastic cooling water pipe accessories assembly table (Can be assembled with any length of pipe fittings as required)

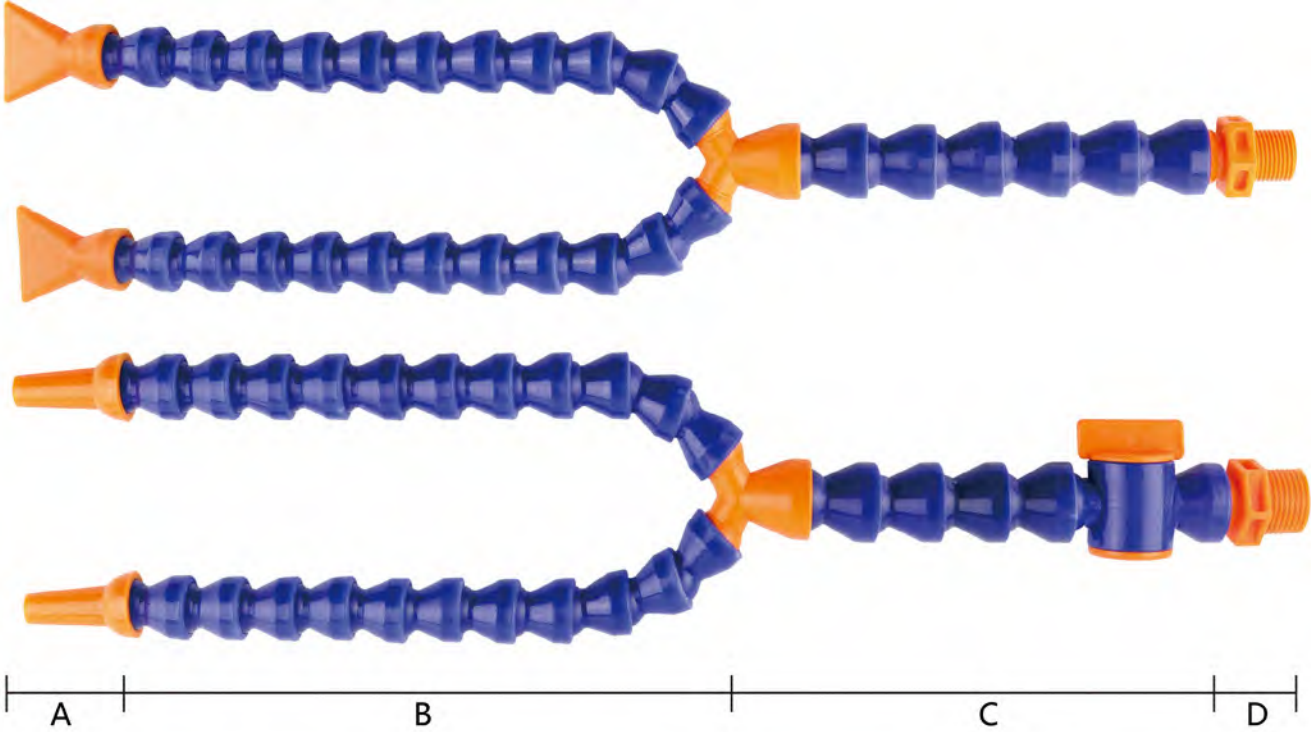
|  |                                                                                                                                               |  |                                                                                                                                                 |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------|
|  | 3/8 调节阀<br>3/8 regulating valve                                                                                                               |  | 3/8 小口径圆形喷嘴<br>出水口内直径: 5mm<br>喷嘴高度: 38.5mm<br><br>3/8 small diameter round nozzle<br>Inner diameter of water outlet: 4mm<br>Nozzle height: 35mm |
|  | 3/8 大口径圆形喷嘴<br>出水口宽度: 34mm<br>喷嘴高度: 36.5mm<br><br>3/8 large diameter round nozzle<br>Outlet width: 34mm<br>Nozzle height: 36.5mm              |  | 3/8 螺纹接头<br>螺纹规格: 3/8 3 分<br>螺纹直径: 约 15.6mm<br><br>3/8 thread connector<br>Thread specification: 3/8 3 "<br>Thread diameter: about 15.6mm       |
|  | 3/8 大口径圆形喷嘴<br>出水口内直径: 7mm<br>喷嘴高度: 37mm<br><br>3/8 large diameter round nozzle<br>Inner diameter of water outlet: 7mm<br>Nozzle height: 37mm |  |                                                                                                                                                 |



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



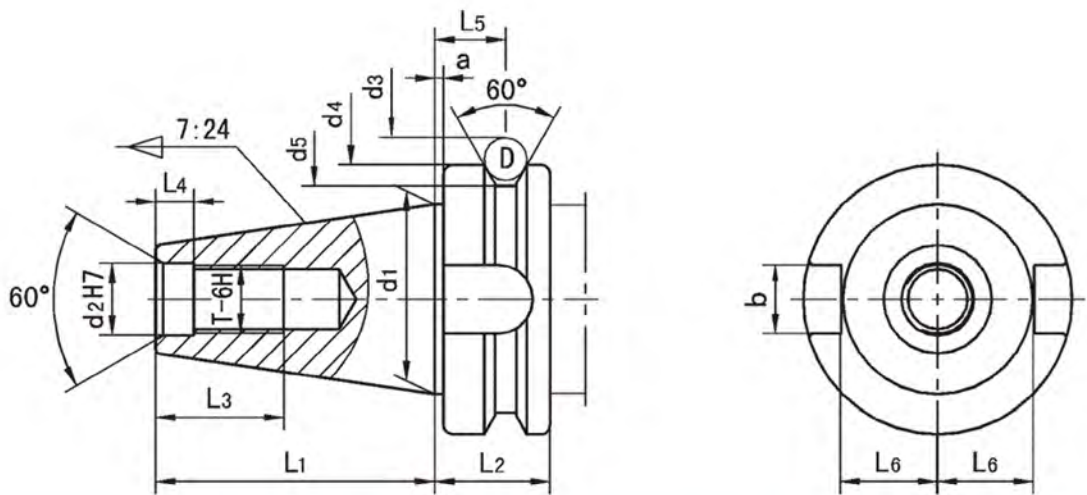
塑料冷却水管配件组配表 ( 可根据要求任意长度管件组装 )  
plastic cooling water pipe accessories assembly table (Can be assembled with any length of pipe fittings as required)



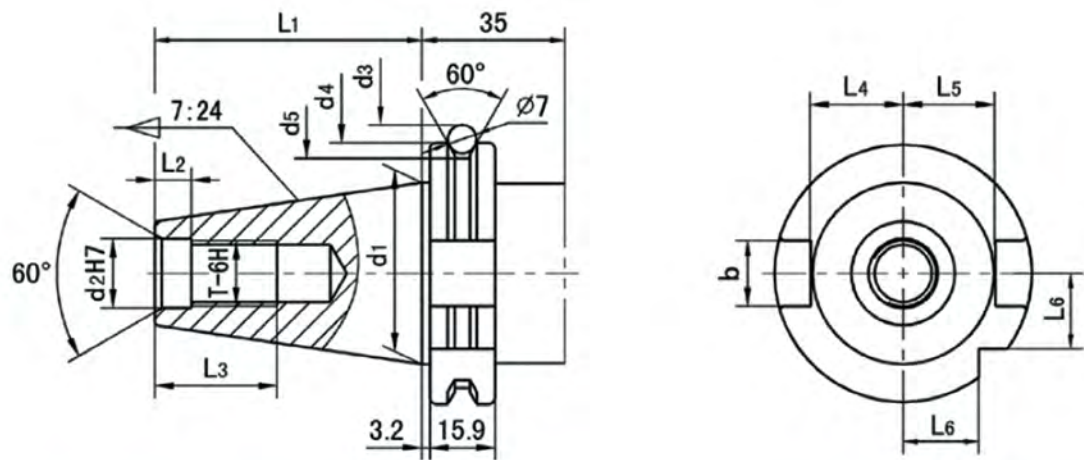
塑料冷却水管配件组配表 ( 可根据要求任意长度管件组装 )  
plastic cooling water pipe accessories assembly table (Can be assembled with any length of pipe fittings as required)



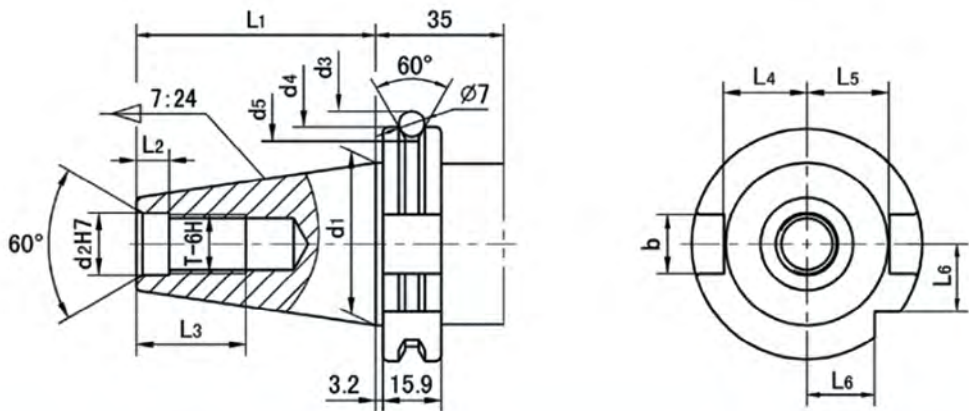




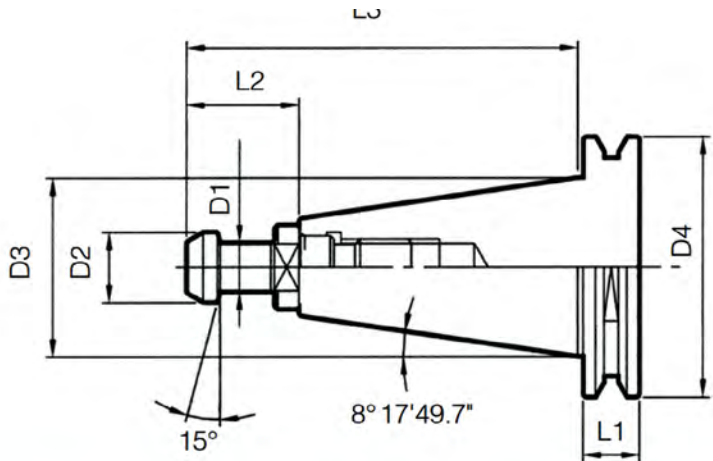
| Model | L1    | L2 | L3 | L4 | L5   | L6   | d1    | d2   | d3     | d4  | d5 | D  | a | b    | T   |
|-------|-------|----|----|----|------|------|-------|------|--------|-----|----|----|---|------|-----|
| BT30  | 48.4  | 22 | 24 | 7  | 13.6 | 16.3 | 31.75 | 12.5 | 56.144 | 46  | 38 | 8  | 2 | 16.1 | M12 |
| BT40  | 65.4  | 27 | 30 | 9  | 16.6 | 22.6 | 44.45 | 17   | 75.679 | 63  | 53 | 10 | 2 | 16.1 | M16 |
| BT50  | 101.8 | 38 | 45 | 13 | 23.2 | 35.4 | 69.85 | 25   | 119.02 | 100 | 85 | 15 | 3 | 25.7 | M24 |



| Model | L1    | L2    | L3   | L4    | L5    | d1   | d2    | d3    | d4    | d5    | b     | T       |
|-------|-------|-------|------|-------|-------|------|-------|-------|-------|-------|-------|---------|
| CAT30 | 1.875 | 0.188 | 1.00 | 0.664 | 0.735 | 1.25 | 0.516 | 2.176 | 1.812 | 1.531 | 0.645 | 1/2"-13 |
| CAT40 | 2.687 | 0.188 | 1.12 | 0.89  | 0.985 | 1.75 | 0.641 | 2.863 | 2.500 | 2.219 | 0.645 | 5/8"-11 |
| CAT50 | 4.000 | 0.250 | 1.75 | 1.39  | 1.485 | 2.75 | 1.031 | 4.238 | 3.875 | 3.594 | 1.020 | 1"-8    |

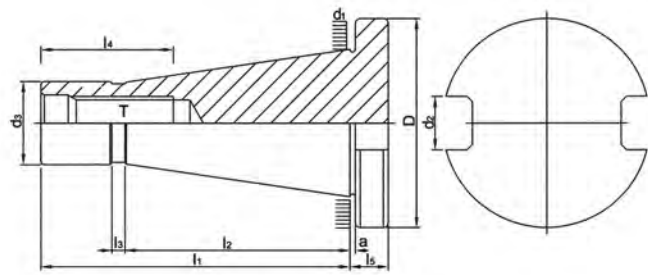


| Model | L1    | L2   | L3 | L4   | L5   | L6   | d1    | d2 | d3     | d4    | d5    | b    | T   |
|-------|-------|------|----|------|------|------|-------|----|--------|-------|-------|------|-----|
| SK30  | 47.8  | 5.5  | 24 | 16.4 | 19   | 15   | 31.75 | 13 | 59.3   | 50    | 44.3  | 16.1 | M12 |
| SK40  | 68.4  | 8.2  | 32 | 22.8 | 25   | 18.5 | 44.45 | 17 | 72.3   | 63.66 | 56.25 | 16.1 | M16 |
| SK50  | 101.8 | 11.5 | 47 | 35.5 | 37.7 | 30   | 69.85 | 25 | 107.25 | 97.5  | 91.25 | 25.7 | M24 |



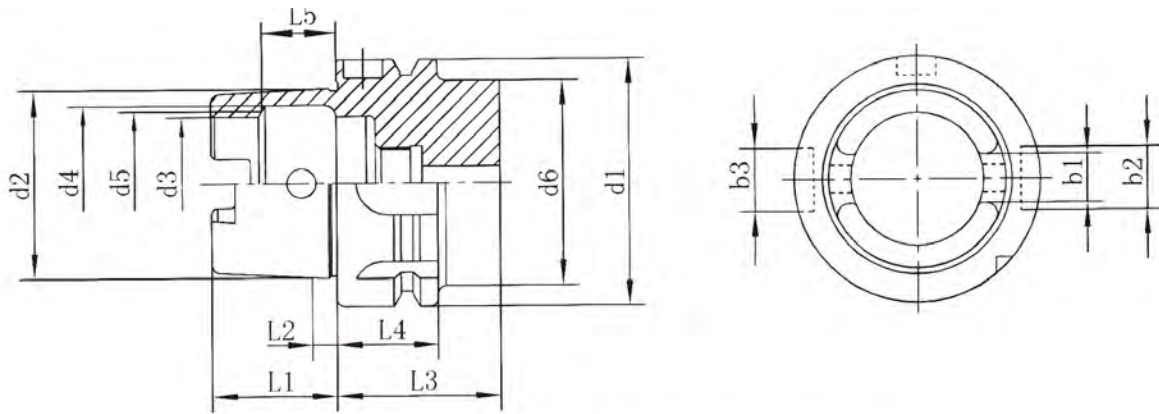
| Model | D1 | D2 | D3     | D4 | L1   | L2 | L3   |
|-------|----|----|--------|----|------|----|------|
| ISO20 | 6  | 9  | 22.225 | 33 | 8    | 12 | 45.3 |
| ISO25 | 7  | 10 | 25.4   | 37 | 8    | 16 | 55.7 |
| ISO30 | 9  | 13 | 31.75  | 50 | 15.9 | 24 | 71.8 |



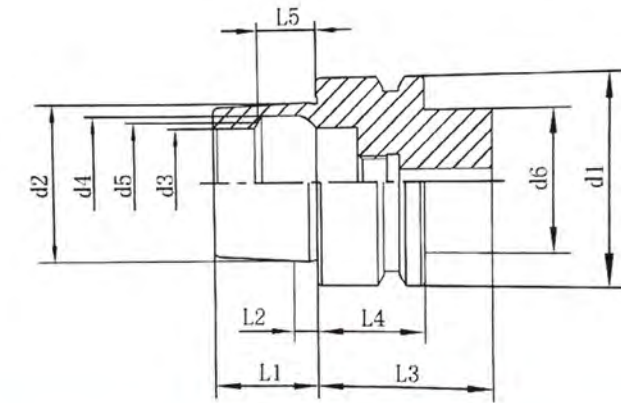


国际标准ISO等效于德国DIN2080 NT 标准  
 中国XT/GB3837: 30, 40等效于NT标准  
 ISO is Equivalent to DIN2080 NT  
 XT/GB3837:30 is Euivalent to NT

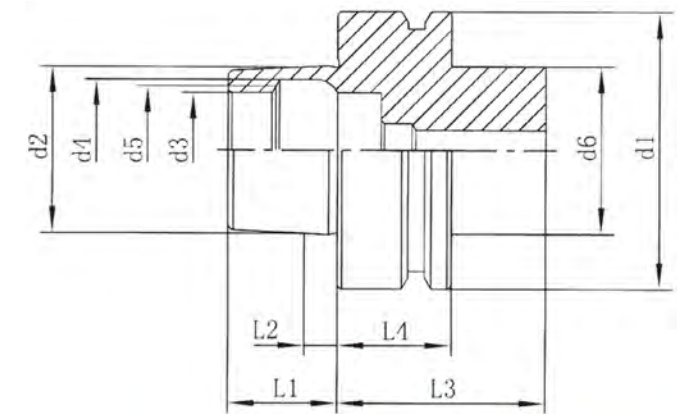
| TYPE | D    | d <sub>1</sub> | d <sub>2</sub> | d <sub>3</sub> | a   | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | l <sub>4</sub> | l <sub>5</sub> | T                               |
|------|------|----------------|----------------|----------------|-----|----------------|----------------|----------------|----------------|----------------|---------------------------------|
| NT30 | 49   | 31.75          | 16.1           | 17.05          | 1.6 | 68.4           | 48.4           | 3              | 24             | 8              | 1/2" -12W,M12x1.75p,1/2" -13UNC |
| NT40 | 63   | 44.45          | 16.1           | 24.92          | 1.6 | 93.4           | 65.4           | 5              | 32             | 10             | 5/8" -11W,M16x2.0P              |
| NT50 | 97.5 | 69.85          | 25.7           | 39.19          | 3.2 | 126.8          | 101.8          | 8              | 47             | 12             | 1" -8W,M24x3.0p                 |



| 规格      | L1<br>0<br>-0.2 | L2   | L3<br>min | L4 | L5<br>js10 | d1<br>h10 | d2      | d3<br>H10 | d4<br>H11 | d5 | d6<br>max | b1<br>±0.04 | b2<br>H10 | b3<br>H10 |
|---------|-----------------|------|-----------|----|------------|-----------|---------|-----------|-----------|----|-----------|-------------|-----------|-----------|
| HSK32A  | 16              | 3.2  | 35        | 20 | 8.92       | 32        | 24.007  | 17        | 20.5      | 19 | 26        | 7.05        | 7         | 9         |
| HSK40A  | 20              | 4    | 35        | 20 | 11.42      | 40        | 30.007  | 21        | 25.5      | 23 | 34        | 8.05        | 9         | 11        |
| HSK50A  | 25              | 5    | 42        | 26 | 14.12      | 50        | 38.009  | 26        | 32        | 29 | 42        | 10.54       | 12        | 14        |
| HSK63A  | 32              | 6.3  | 42        | 26 | 18.13      | 63        | 48.01   | 34        | 40        | 37 | 53        | 12.54       | 16        | 18        |
| HSK80A  | 40              | 8    | 42        | 26 | 22.85      | 80        | 60.012  | 42        | 50        | 46 | 68        | 16.04       | 18        | 20        |
| HSK100A | 50              | 10   | 45        | 29 | 28.56      | 100       | 75.013  | 53        | 63        | 58 | 68        | 20.02       | 20        | 22        |
| HSK125A | 63              | 12.5 | 45        | 29 | 36.27      | 125       | 95.016  | 67        | 80        | 73 | 111       | 25.02       | 25        | 28        |
| HSK160A | 80              | 16   | 47        | 30 | 45.98      | 160       | 120.016 | 85        | 85        | 92 | 144       | 30.02       | 32        | 36        |



| 规格     | L1<br>0<br>-0.2 | L2  | L3<br>min | L4 | L5<br>js10 | d1<br>h10 | d2     | d3<br>H10 | d4<br>H11 | d5 | d6<br>max |
|--------|-----------------|-----|-----------|----|------------|-----------|--------|-----------|-----------|----|-----------|
| HSK32E | 16              | 3.2 | 35        | 20 | 8.92       | 32        | 24.007 | 17        | 20.5      | 19 | 26        |
| HSK40E | 20              | 4   | 35        | 20 | 11.42      | 40        | 30.007 | 21        | 20.5      | 23 | 34        |
| HSK50E | 25              | 5   | 42        | 26 | 14.12      | 50        | 38.009 | 26        | 32        | 29 | 42        |
| HSK63E | 32              | 6.3 | 42        | 26 | 18.13      | 63        | 48.01  | 34        | 40        | 37 | 53        |



| 规格     | L1<br>D<br>-0.2 | L2 | L3<br>min | L4 | L5<br>js10 | d1<br>h10 | d2     | d3<br>H10 | d4<br>H11 | d5 | d6<br>max |
|--------|-----------------|----|-----------|----|------------|-----------|--------|-----------|-----------|----|-----------|
| HSK50F | 20              | 4  | 42        | 26 | 11.42      | 50        | 30.007 | 21        | 25.5      | 23 | 42        |
| HSK63F | 25              | 5  | 42        | 26 | 11.42      | 63        | 38.009 | 26        | 32        | 29 | 53        |



工厂设备展示 Factory equipment Display



数控加工中心  
CNC machining center

数控加工中心  
CNC machining center

数控加工中心  
CNC machining center

公司环境展示 Company environment Display



样品室  
Sample room

业务办公室  
Business Office

会议室  
Meeting room

产品展厅  
Item display

公司资质荣誉展示 Company Qualification Honor Display



中国商标  
Chinese trademark

美国商标  
American trademark

欧盟商标  
EU trademark

SGS认证  
SGS certification



文明诚信企业  
Civilized and Integrity Enterprise



公益爱心企业  
Charity Enterprise



中国优质制造商  
China Quality Manufacturer



机械行业先进单位  
Advanced unit in machinery industry