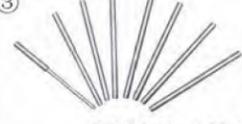
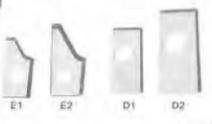


## 规格参数/SPECIFICATION

|   |  |   |  |
|---|--|---|--|
| <b>加工能力</b><br>汽缸盖最长尺寸<br>汽缸盖最宽尺寸<br>汽缸盖最高尺寸<br>横向工件倾斜角度<br>工作台横向移动<br><b>加工范围 (最小到最大)</b><br><b>自对中镗头行程</b><br>纵向<br>横向<br>球形汽缸行程<br><b>主轴</b><br>主轴最大倾斜角度<br>主轴行程<br>主轴电机功率<br>主轴转速<br><b>外设</b><br>电源<br>气压<br>最大气流<br>噪音等级400RPM下<br>1200RPM下<br>净重 (约)<br><b>床身尺寸</b><br>长<br>宽<br>高 | <b>Machine capabilities</b><br>Max. length of the cylinder head<br>Max. width of the cylinder head<br>Max. height of the cylinder head<br>Crosswise work piece tilting<br>Maximum table horizontal travel(mm)<br><b>Machining capacity dia. (min-max)</b><br><b>Work head displacement</b><br>Lengthwise<br>Crosswise<br>Sphere-Cylinder travel<br><b>Spindle</b><br>Max.spindle incination<br>Spindle Travel<br>Power of the spindle<br>Spindle rotation speed<br><b>Alimentations</b><br>Electric supply<br>Air pressure<br>Max. air flow<br>Level of noise at 400 RPM<br>Level of noise at 1200 RPM<br>Net weight (approx.)<br><b>Machine space requirements</b><br>Length<br>Width<br>Height | mm/inch<br>mm/inch<br>mm/inch<br>degrees<br>mm/inch<br>mm/inch<br>mm/inch<br>mm/inch<br>mm/inch<br>degrees<br>mm/inch<br>kw<br>rpm<br>380v/50Hz 3Ph or<br>bar/psi<br>l/mn -CFM<br>dba<br>dba<br>kg/lbs<br>mm/inch<br>mm/inch<br>mm/inch | 无限制/Unlimited<br>500/19.7<br>450/17.7<br>+45°~ -15°<br>160/4.3<br>16-120/0.6-4.72<br>1440/94<br>40/1.6<br>9/0.4<br>5<br>290/11.42<br>2.2<br>0-680<br>220v/60Hz/3Ph<br>6/87<br>300/11<br>72<br>82<br>1650/3400<br>2250/89<br>1150/45<br>2280/86.6 |
|---|--|---|--|

## 标准附件/STANDARD ACCESSORIES

|  |   |   |  |
|--|---|---|--|
| ①<br><br>刀柄5700/5710<br>5700/5710 Tool holder | ②<br><br>刀座2700/2710/2711<br>2700/2710/2711 Bit holder | ③<br><br>芯轴Φ5.98~Φ11.98<br>φ5.98~φ11.98 Carbide pilot | ④<br><br>刀片<br>Carbide bit  |
| ⑤<br><br>对刀器4200<br>Tool setting device 4200  | ⑥<br><br>水准仪<br>Leveling device                        | ⑦<br><br>专用扳手<br>Allen wrench                         | ⑧<br><br>真空检测<br>Vacuum Pad |
| ⑨<br><br>磨刀机<br>Sharpener                     | ⑩<br><br>安装手册<br>manual book                           | ⑪<br><br>万能夹具体<br>Universal Clamping system           |  |

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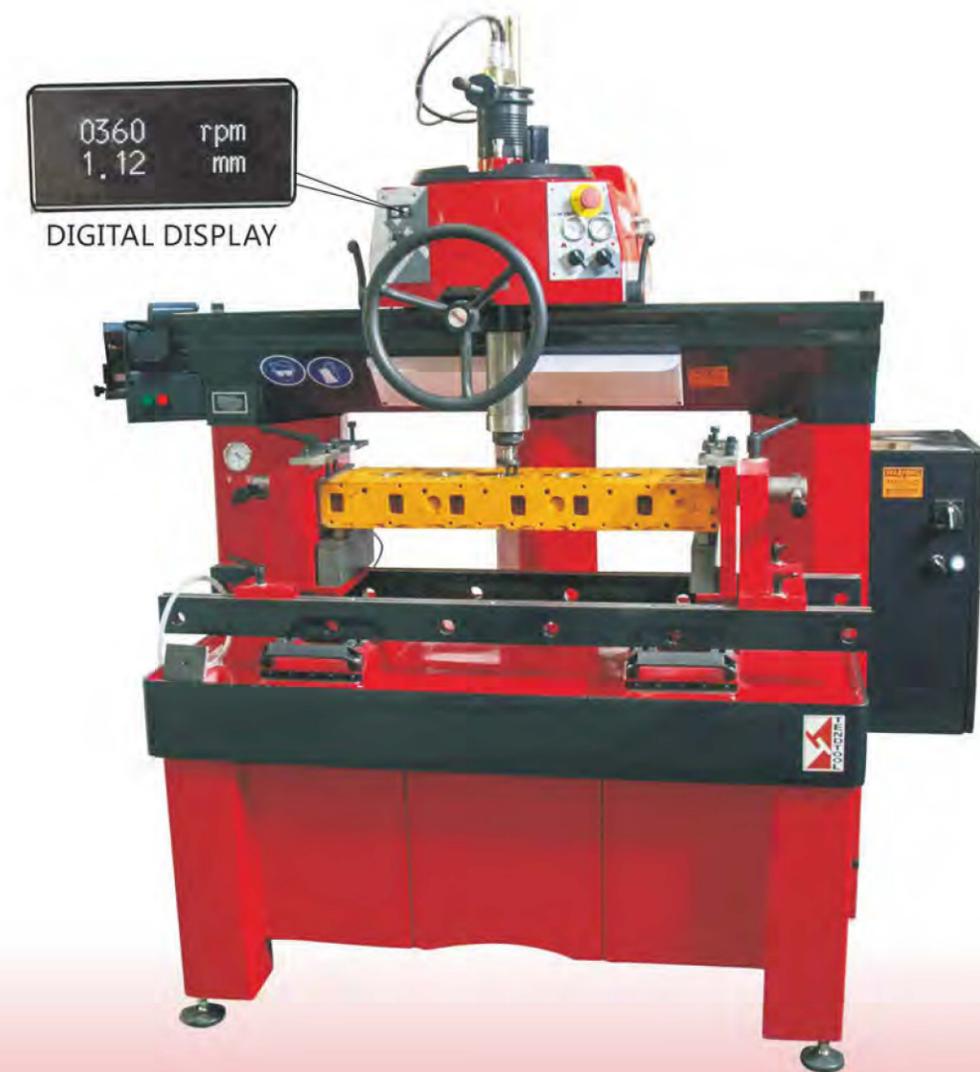
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数显高精度气门座镗床 型号: TL120DRO

DIGITAL DISPLAY VALVE SEAT BORING MACHINE TL120DRO



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 XI'AN TENDTOOL MACHINERY CO, LTD.

## 产品简介

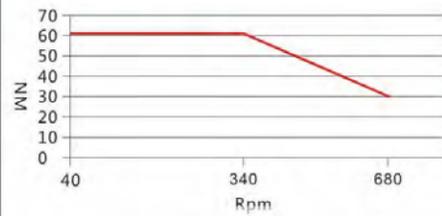
- 采用动静态结合算法优化机身结构。融现代化、标准化、功能化为一体的设计理念，侧向上下系统，最大限度的保证了夹具体在 (+42° ~ -15°) 方向上倾斜夹紧，以及360°液压翻转夹紧。
- 采用气动夹紧装置实现镗头在机床上的机械锁定。
- 专利制造轻型镗头：主轴电机及三向气浮。使主轴在对中环节的灵敏度及准确度无与伦比。
- 球型气缸真空系统预夹紧后由闭环回路的液压活塞进一步锁定。
- 一体化电机主轴，0-680RPM无极变速，源于开环回路矢量变频控制。并具速度数显功能。
- 安装专用SCS刀具，节省切削力达30%，可加工材质硬度最高的气门座。
- 加工能力：16mm-120mm ( 0.63" - 4.72" )。
- 气缸盖气浮于工作台往复位移，并气动锁定。
- 高质量三色饱和喷漆。

### 主轴电机/Motor-Spindle



- 2.2KW电机，配备定子散热片
  - ISO30锥孔带驱动装置
  - 电子控制主轴锁紧
  - 转速范围0-680rpm，输出最大扭矩
  - 主轴镀铬，美观耐用
- 2.2 kW motor, with stator cooled by heat sink.
  - ISO30 taper with driving device.
  - Locking of the spindle by electronic control.
  - 2.2kw motor with max torque from 0-680 rp
  - Spindle chrome

主轴电机扭矩曲线图  
Spindle motor torque curve



### ③真空检测开关 /Vacuum tester



### ①控制单元/Control unit

本机TL120DRO的控制面板已升级为数显薄膜开关控制，显示主轴转速和主轴移动。通过旋钮，可以实现主轴的无极调速，正转或反转。切削深度可以随时设置，使得加工同一缸盖的座圈深度完全一致，实现高精度及高效率。精度可达1%mm。

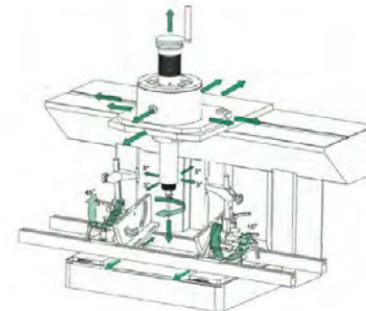
Machine TL120DRO upgrade electric control board to digital readout which show both spindle speed and spindle movement. Through the rotary knob, can adjust the spindle in variable speed clockwise or anticlockwise. Cutting depth can be reset to cut all valve seat in same depth, very accurate and high efficient. Accuracy can reach up to one-hundredth of millimeter (1%mm)



### ②夹具体/Clamping system



### ④三重气浮系统 Triple air-cushion System



## Features

- Featuring a machine bed structure optimized by static and dynamic calculation, with a modern, modular and functional design. it can accommodate either the tilting fixture (+42deg to -15deg) or the hydraulic 360deg roll-over fixture with lateral up-and-down system.
- TL120DRO Power has a benefit of air floating table bars, Thus adding faster setup time and effortless shifting of any size cylinder head. This feature decreases operator fatigue and increases productivity.
- Machining capacity 0.63"/16mm to 4.72"/120mm.
- Fitted with the new tooling that decreases the cutting force by 30%, this machine will cut the hardest seats.
- Patented lightweight workhead: built-in spindle motor and triple air-float automatic entering system. Minimal workhead inertia and maximal floatation for unmatched centering sensitivity.
- Build-In spindle motor. Broad torque ratings from lowest RPM.
- Fully integrated spindle motor: Infinitely variable spindle speed, 0 to 680rpm., with sensorless Vector Flux Control in open loop (extremely broad torque ratings from lowest r.p.m.). Digital spindle rotation read out.
- High quality smooth, 3 tone paint