

## 规格参数/SPECIFICATION

<b>加工能力</b>	<b>Machine capabilities</b>		
汽缸盖最长尺寸	Max. length of the cylinder head	mm/inch	无限制/Unlimited
汽缸盖最宽尺寸	Max. width of the cylinder head	mm/inch	500/19.7
汽缸盖最高尺寸	Max. height of the cylinder head	mm/inch	450/17.7
横向工件倾斜角度	Crosswise work piece tilting	degrees	+45°~ -15°
工作台横向移动	Maximum table horizontal travel(mm)	mm/inch	160/4.3
加工范围(最小到最大)	<b>Machining capacity dia. (min-max)</b>	φmm/inch	16-120/0.6-4.72
自对中镗头行程	<b>Work head displacement</b>		
纵向	Lengthwise	mm/inch	1440/94
横向	Crosswise	mm/inch	40/1.6
球形汽缸行程	Sphere-Cylinder travel	mm/inch	9/0.4
<b>主轴</b>	<b>Spindle</b>		
主轴最大倾斜角度	Max.spindle incination	degrees	5
主轴行程	Spindle Travel	mm/inch	290/11.42
主轴电机功率	Power of the spindle	kw	2.2
主轴转速	Spindle rotation speed	rpm	0-1000
<b>外设</b>	<b>Alimentations</b>		
电源	Electric supply	380v/50Hz 3Ph or	220v/60Hz/3Ph
气压	Air pressure	bar/psi	6/87
最大气流	Max. air flow	l/mn -CFM	300/11
噪音等级400RPM下	Level of noise at 400 RPM	dba	72
1200RPM下	Level of noise at 1200 RPM	dba	82
净重(约)	Net weight (approx.)	kg/1bs	1650/3400
<b>床身尺寸</b>	<b>Machine space requirements</b>		
长	Length	mm/inch	2250/89
宽	Width	mm/inch	1150/45
高	Height	mm/inch	2280/86.6

## 标准附件/STANDARD ACCESSORIES



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TENDTOOL reserves the right to make changes in design, specifications and descriptions without notice

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# 高精度气门座镗床 型号:TL120XL

## VALVE SEAT BORING MACHINE MODEL : TL120 XL



西安瑟迪机械制造有限责任公司  
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。

●球型气缸经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。

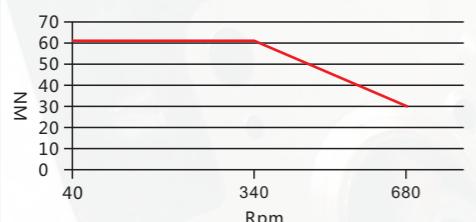
●高质量三色饱和喷漆。

主轴电机/Motor-Spindle



- 2.2KW电机，配备定子散热片
- ISO30锥孔驱动装置
- 电子控制主轴锁紧
- 转速范围0-340rpm，输出最大扭矩
- 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 0-340 rpm

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

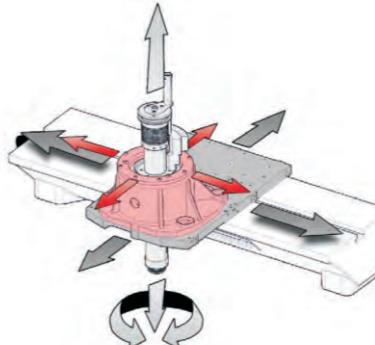


主轴/Spindle



标准主轴行程240mm 本机主轴行程290mm  
standard stroke 240mm Optional stroke 290mm

三重气浮/Triple air cushion



控制面板/Control panel



加长横梁，加高立柱 /Extend beam , Tall column



加长横梁有效的帮助我们装卸大型缸体，提高加工效益。

The beam (optional) is available to facilitate the removal and dismantling of large floating heads on the table, and also makes it possible to lengthen the stroke of the head.

## 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,

•TL120XL 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 work