

## 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° ~ -45°
工作台横向移动	Maximum table horizontal travel(mm)	mm/inch	160/4.3
<b>加工范围(最小到最大)</b>	<b>Machining capacity dia. (min-max)</b>	φmm/inch	16-120/0.6-4.72
<b>自对中镗头行程</b>	<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 inclination	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	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 1200RPM下	Level of noise at 400 RPM Level of noise at 1200 RPM	dba	72
噪音等级400RPM下 1200RPM下	Net weight (approx.)	kg/1bs	82
<b>Machine space requirements</b>			
净重(约)		mm/inch	1650/3400
<b>床身尺寸</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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高效、高精度、自适应、创新型的发动机缸盖数控加工机床  
High-efficiency, high-precision, self-adaptive,  
CNC machine for cylinder head



数控气门座镗床 TL120CNC

CNC VALVE SEAT BORING MACHINE TL120CNC

## 产品简介

- TL120CNC是一款专门针对于各种发动机缸盖加工的全新型数控气门座镗床。
- 床身采用轻量化、高强度、高稳定性的现代化设计理念，外观采用高标准、高质量的多色饱和进口烤漆。
- 量身定制的高性能控制系统、专利制造的柔性三重对中轻型镗头以及一体化主轴电机，从而实现加工的高精度、高效率，保证加工的一致性。
- 科学、直观的触屏操作界面使机床操作更加方便、更加快捷、更加人性化。
- 针对机床特性外加了及其人性化的“JOG”功能，自由控制主轴旋转位置，使刀具可以停止在任意位置，极大地避免了刀具盲区，操作更安全。
- 针对不同的座圈材料，系统配置了“通用切削”和“步进切削”两种模式，科学的补偿了传统气门座镗床的不足之处。
- “手动步进进给”功能使操作者更加便捷的对加工参数进行及时修正。
- 高精度的“电子脉冲手轮”使机床操作更加灵活、省力、更容易控制。
- 全新理念的夹具体系统，最大限度地保证工件能在-45°~+45°的自由翻转，使工件装夹更加科学、更加快捷。

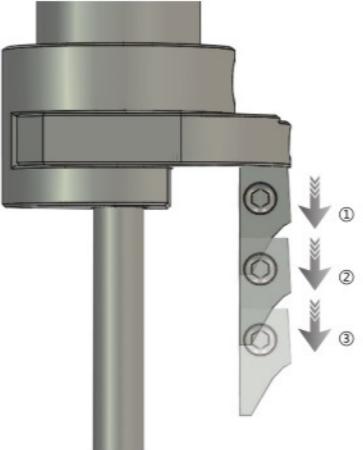
### ①控制单元/Control unit

数字控制外加柔性三重气浮对中，实现加工高精度、高效率、高统一性；触屏操作更方便、更快捷、更人性化。  
CNC control with self - adaptive triple air cushion centering structure achieve high precision, high efficiency of processing. Touch screen interface makes operation more simplify, faster.

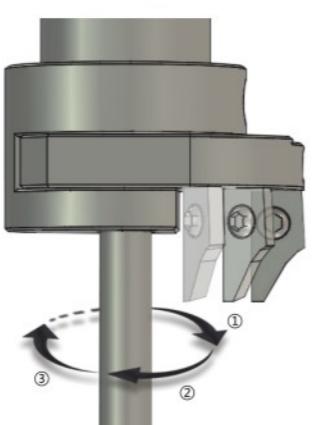


### ②步进式加工/Step processing

手动、自动步进加工可以实现弹性，间歇式加工，可获得完美的座圈加工效果。  
Manual, automatic step cutting of elastic, intermittent machining to get the perfect cutting seat without vibration.

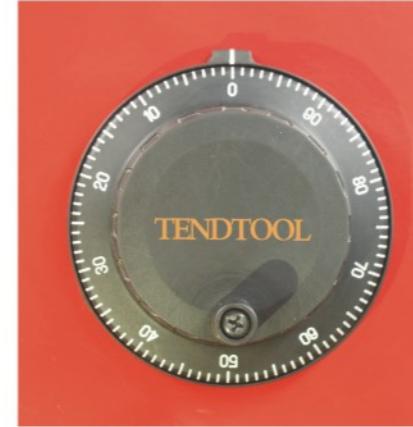


③主轴点动旋转，刀头校准，将刀头设置为最佳加工位置，“0”位设置，避免盲区操作。  
Spindle jog rotation, cutting bit aligning, put the cutter in best position, set "0" position, avoid blind zone operation.



### ④高精度电子脉冲手轮/High precision electronic pulse handwheel

相对机械式手轮更灵活、更省力。  
More flexible and labor-saving than mechanical handwheels.

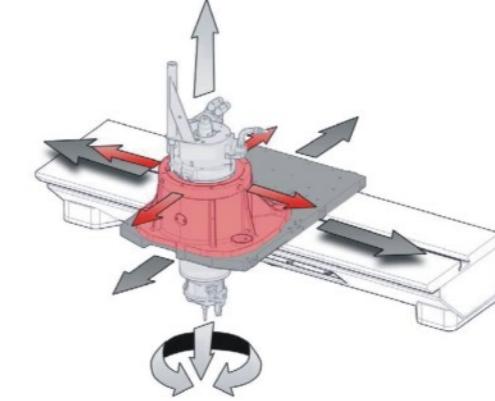


## Features

- ◆ TL120CNC is a new CNC machine focus on processing the different Type of cylinder head.
- ◆ Machine takes the modernized design concept in lightweight, high strength, high stability.
- ◆ Customized high performance control system, self – adaptive triple Air cushion boring work head and spindle build – in high torque motor to achieve the high precision, high efficiency and consistency for all seat cutting.
- ◆ The operation of touch screen interface is more simplify, fast and humanization.
- ◆ Aim at the character of machine to design the feature of “JOG”，easy control the spindle rotated position, cutting bit stop in any position to avoid the blind area, safe operation.
- ◆ Contain two modes “General cutting” and “Step cutting” in system to aim the different seat material, make up for the deficiency of traditional valve seat cutting machine.
- ◆ “Manual step feeding” can be more easily to modify the processing parameter.
- ◆ High precision “Electronic Pulse Handwheel, operation more flexible, laborsaving and more easy operation control.
- ◆ New concept “Clamping System”, assure the workpiece rotation in -45° to +45°. More clamping fixture in faster and fastening.



### ⑤三重气浮/Triple air cushion



### ⑥新型夹具体(选配)/New clamping system (Optional)

设计更科学，使用更便捷。  
More scientific design, more convenient to use.

