

Built-in Spindle Motor
内置主轴电机

Spindle control panel
主轴控制面板

Operation-hand wheel
手轮

Air control panel
气路控制面板

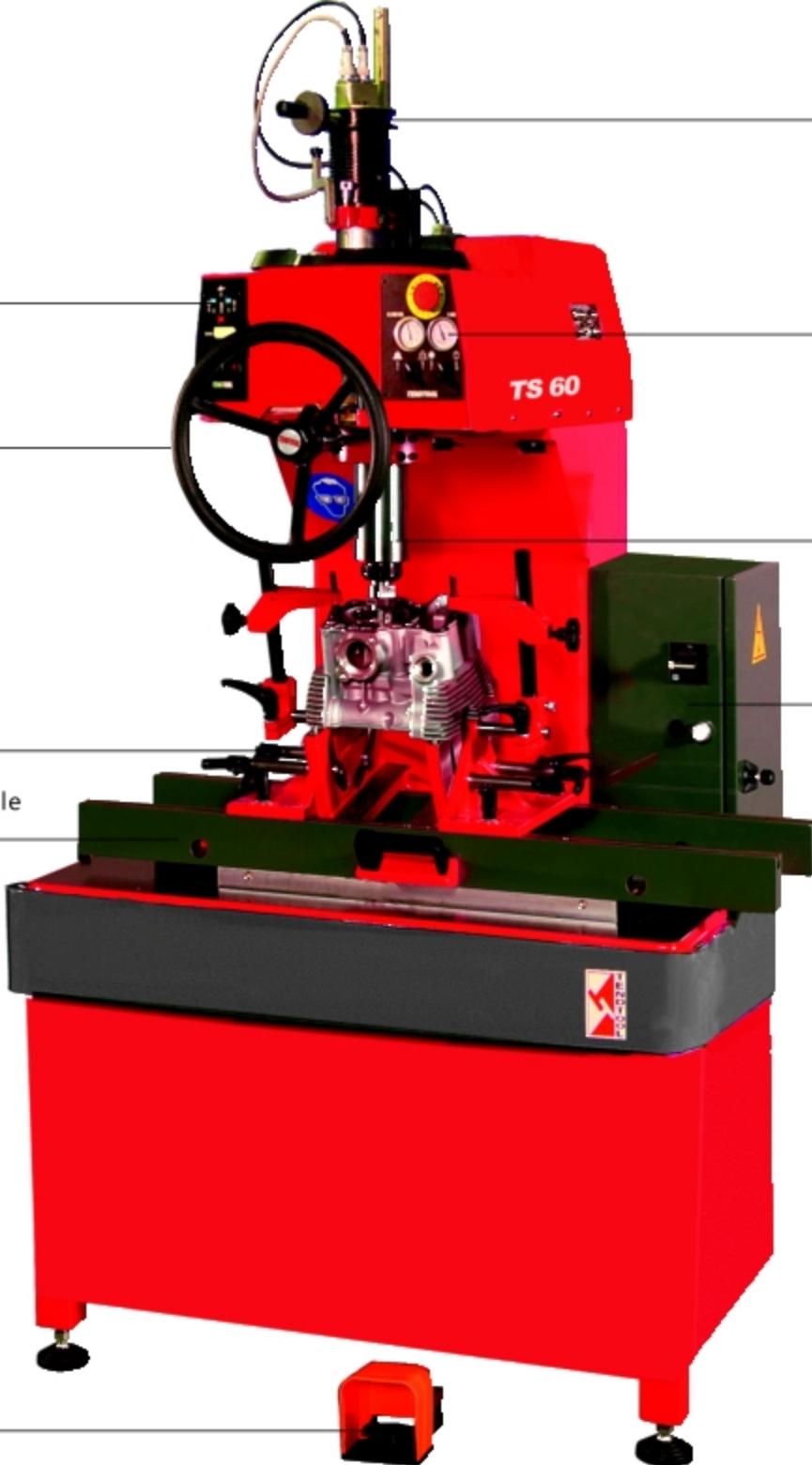
Air-float clamping system
气浮夹具体

Air-floating work table
气浮工作台

Spindle
主轴

Electrical Cabinet
电器箱

Work table pedal
工作台脚踏开关





VALVE SEATS BORING MACHINE TS60

TS60 is high precision machine featuring the latest technology incorporating air-float automatic centering and motorspindle. Air-floated table fixture can make the movement of workpiece more flexible. Especially developed for the repair of small motorcycle and automotive multivalve cylinder heads.

气门座镗床 型号：TS60

高精度加工机床，引领国际最新科技：融自动对中主轴，嵌入式电机，球型气浮于一体。
气浮工作台夹具体使工件移动更加灵活方便。
适用于各式摩托车、汽车等小型发动机的复合型气门加工和修复。

规格参数

SPECIFICATION

加工能力	Machine capabilities		
汽缸盖最长尺寸	Max.length of the cylinder head	mm / inch	600 / 23.62
汽缸盖最宽尺寸	Max.width of the cylinder head	mm / inch	400 / 15.75
汽缸盖最高尺寸	Max.height of the cylinder head	mm / inch	450 / 15.72
横向工件倾斜角度	Crosswise work piece tilting	Degress	+42~-15
加工范围(最小到最大)	Machining capacity dia.(min-max)	Ø mm	16-60
		Ø inch	0.63-2.36
镗头行程	Work head displacement	mm / inch	8/0.32
工作台行程	Travel of working table		
纵向	Lengthwise	mm / inch	400 / 15.75
横向	Crosswise	mm / inch	8/3.15
主轴	Spindle		
主轴最大倾斜角度	Max.spindle inclination	Degress	5
主轴行程	Spindle Travel	mm / inch	200/8
主轴电机功率	Power of the spindle	KW	1.8
主轴转速	Spindle rotation speed	rpm	0-1000
外设	Al imentations		
电源	Power supply		
	380V-AC-3Ph-50Hz		
	220V-AC-3Ph-60Hz		
气压	Air supply max		
最大气流	Max.air flow	Bar/psi 1/min/CFM	6/87 300/11
噪音等级 400RPM下	Level of noise at 400RPM	dba	72
1200RPM下	Level of noise at 1200RPM	dba	82
净重(约)	Net weight approx.	kg / lbs	600 / 1320
床身尺寸	Machine space requirements		
长	Length	mm / inch	1400 / 55.12
宽	Width	mm / inch	900 / 35.43
高	Height	mm / inch	2000 / 78.74

Airfloated workpiece table
镗头配有平面及球形双重气浮



Motor-Spindle
主轴电机

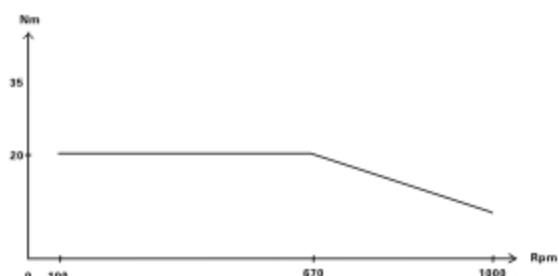


- High precision toothed rack
- Locking of the spindle by electronic control.
- 一体化主轴，前镀铬处理
- 高精度齿轮合
- 1.8KW电机，配备定子散热片
- ISO30孔带驱动装置
- 电子控制主轴锁紧

Air-floated table fixture
气浮工作台



Spindle motor torque curve
主轴电机扭矩曲线图



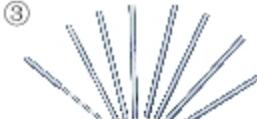
Features

- Fitted with the new tooling that decreases the cutting force by 30%, this machine will cut the hardest seats.
- Machine bed structure optimized by static and dynamic calculation, with a functional design.
- Machining capacity from 0.551" / 14mm to 2.36" / 60mm.
- Fully integrated spindle motor: infinitely variable spindle speed, 0 to 1000 r.p.m., with sensorless Vector Flux Control in open loop (Extremely broad torque ratings from lowest r.p.m.).
- Rigid, low-inertia workhead. Easy to use due to an automatic reset system.
- Air-floated table fixture with 400mm lengthwise and 40mm crosswise travel.

产品特性

- 具有新一代机械的鲜明特色，使加工过程节省切削力达30%
- 加工能力：16mm/0.63 " –60mm/2.36 "。
- 现代化的标准床身设计以适应改进后的刚性。
- 专利设计双重气浮自动对中系统。平面气浮相结合，使整个镗头与主轴自由移动，以最大限度地保证中准确性。
- 高刚性低惯性镗头配备自动复位系统及气动锁紧系统，使操作更加简易方便。
- 主轴电机一体化设计，矢量变频控制实现主轴变速0–1000rpm无级变速。
- 低惯性，高行程气浮夹紧装置，保证镗头对准迅速。通用夹紧系统。

标准附件/STANDARD ACCESSORIES

①  刀柄5700 5700 Tool holder	②  刀座2700/2710 2700/2710 bit holder	③  芯轴 $\varnothing 3.98\text{--}\varnothing 9.98$ $\varnothing 3.98\text{--}\varnothing 9.98$ Carbide pilot	④  刀片 Carbide bit D1 D2
⑤  对刀器4200 Tool setting device 4200	⑥  水准仪 TS60 leveling device	⑦  专用搬手 Allen wrench	⑧  真空检测 Vacuum Pad
⑨  磨刀机 Sharpener	⑩  使用手册 TS60 manual book	⑪  夹具体 Clamping system	

备注：具体数量参照随机装箱单。

Please refer to the packing list for detailed QTY of acc's supplied with machine.

Air system
气浮系统
