

High precision valve seat and valve guide cutting machine especially designed for multi-valve cylinder heads. Patented workhead with triple air-float, patented centering system and built-in spindle motor.

Perfect machine for the most demanded motorcycle and automotive multi-valve cylinder heads. Achieves excellent levels of concentricity even in guide sizes as small as 3 mm/0.12".





Machining capacity from 16mm to 70mm / 0.6" to 2.75".

Patented lightweight workhead : built-in spindle motor and triple air-float centering system. Minimal workhead inertia and maximum floatation for unmatched centering sensitivity.

Fully integrated spindle motor, variable speed from 100 to 1200 RPM, paired to a 1.5 kW Siemens inverter.

Forward and reverse directions. Extremely wide torque ratings from lowest RPM with constant torque spindle rotation.

Digital spindle speed rotation and machining depth read out.

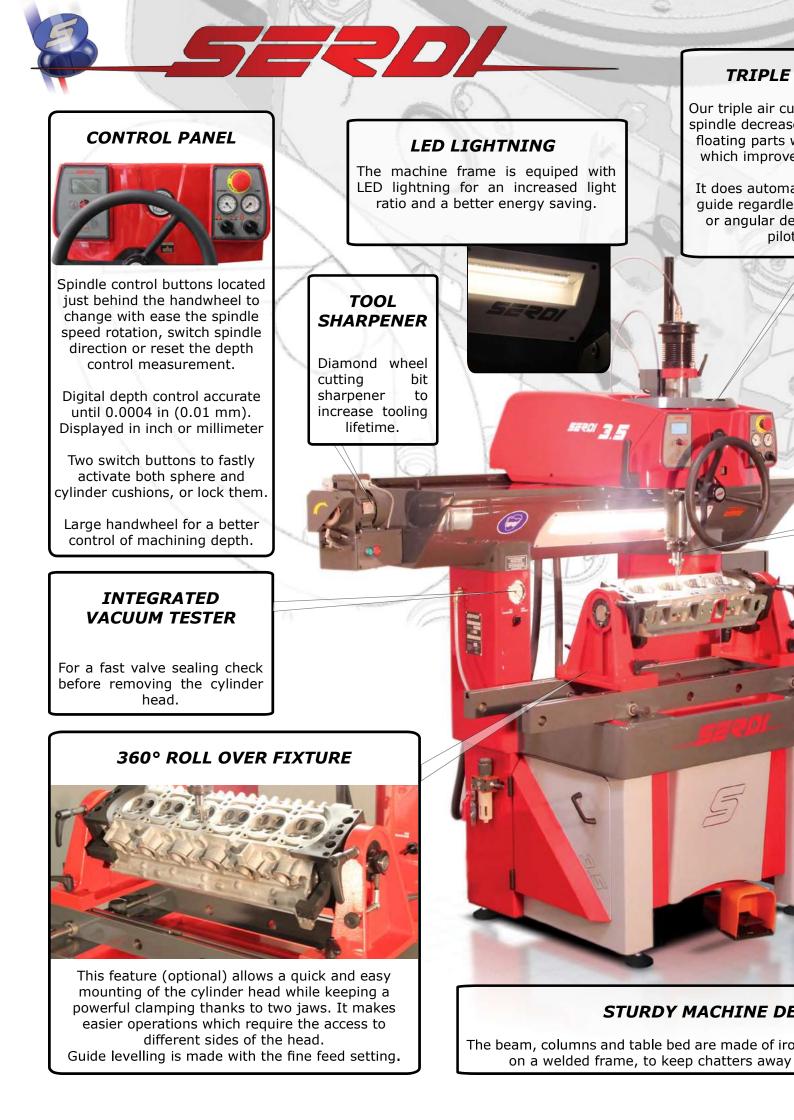
Modern modular machine bed design for improved rigidity, using iron casting parts to get chatter free valve seat machining.

Manual front-to-back displacement of the cylinder head with pneumatic locking.

Available with a dedicated tool bit sharpener and a 360° roll over fixture.

LED worklight.

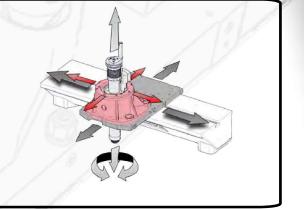




# AIR CUSHION

shion and built-in motor es dramatically the free weight during centering es speed and accuracy.

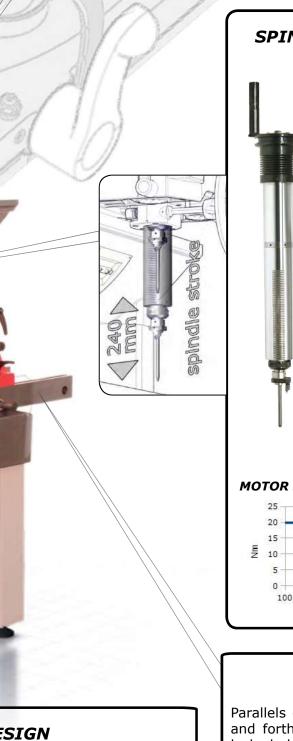
atically align each valve ss of any misalignment flection thanks to live technology.



# **Applications:**

**Racing:** 





## SPINDLE SPECIFICATIONS A 1.2 kW built-in motorspindle paired with a 1.5 kW Siemens Inverter, with a maximum torque from 100 to 670 rpm and a maximum speed of 1200 rpm. Stator cooled by heat sink duty Rigid heavy motorspindle of 3.15 in (80 mm) diameter without for machining chatter. Ensure a considerable machining accuracy thanks to a high precision tooth rack and a whole spindle assembly rigid and concentric to the valve guide. MOTOR SPINDLE TORQUE CURVE 670 1200

### PARALLELS

Rpm

Parallels can be manually moved back and forth on 160 mm. Then they are locked by two powerful pneumatic jacks, clamping them firmly on the machine bed. **Motorcycle:** 



#### **Automotive:**



#### **Aeronautics:**



**Marine:** 





# n castings, firmly assembled while seat machining.

TECHNICAL FEATURES			BASIC EQUIPMENT		
Space requirements			Clamping system kit 020646		
Length (standard)	mm / inch	1690/66.5	011915	Universa	l quick clamp x 2
Width	mm / inch	1050/41.3	010416	Short of	claming bar x 2
Height	mm / inch	2170/85.4	011425	Clamp	ping block x 2
Max cylinder head dimensi	ons		013958	Tilt	ting fixture
Length	mm / inch	1200/47.2	010434	2 Parallels 30x50x242 mm (1.18x1.97x9.53in)	
Width	mm / inch	500/19.7	017577	2 Parallels 20x38x300 mm (0.78x1.5x11.8in)	
Height	mm / inch	450/17.7	009796	Set of 6 long spins	
Crosswse work piece tilting	degrees	+42° to -15°	017576	Set of 6 short pins	
Table travel					
	mm/inch	160/6.7			
Machining capacity Ø min - max			Optiona	l accessories	
	mm	16 to 70		034048	033828
	inch	0.6 to 2.75		Toolrack	Carbide bit sharpener
Workhead travel				C INTERNATION OF THE OWNER	
Lengthwise (standard)	mm / inch	930/36.6			
Crosswise	mm / inch	50/1.97		HE	
Sphere-cylinder travel	mm / inch	14/0.5		ALLER.	
Spindle					
Max. spindle inclination	degrees	5		405580	024298
Spindle travel standard	mm / inch	240/9.4	Setting o	device SERDI 4200	Bubble level
Spindle motor power	KW / HP	1.2 / 1.6			
Spindle inverter power	KW / HP	1.5 / 2		10 m	
Spindle rotation speed	RPM	100 to 1200			
Connections			í L		•
Power supply	2.5kVA-230V-AC-1Ph-50/60 Hz				-
Pneumatic supply	bar / psi	6/87	Single	033622 axis rollover fixture	033763 Dual axis roll over fixture
Max. air flow	l/mn -CFM	400/15			Allecer.
Noise level at 400 RPM	Dba	72		Perstanara a	to ore of
Noise level at 1200 RPM	Dba	82			alecce
Net weight approx.	kg / lbs	1085/2362			1.0.0.0



MACHINES SERDI S.A.SE23, avenue des vieux moulins152B.P. 380Stor74012 Annecy CedexGeoFranceUSA
 10 033 4 50 65 63 00

 152

Fax: 00 33 4 50 52 99 92 www.serdi.com Email: export@serdi.com SERDI CORP.

1526 Litton Drive Stone mountain Georgia 30083 USA (770) 493 82 20

Fax: (770) 493 83 23

# Your distributor:



fijntechniek fijnaart b.v. Machines voor motoren revisie, honen en ultrasoonreinigen

Service makes the difference!

Blaaksedijk 30 | 4793 RN Fijnaart | Nederland tel. +31 (0)168 46 44 61 info@ftf.nl www.ftfmachines.com