

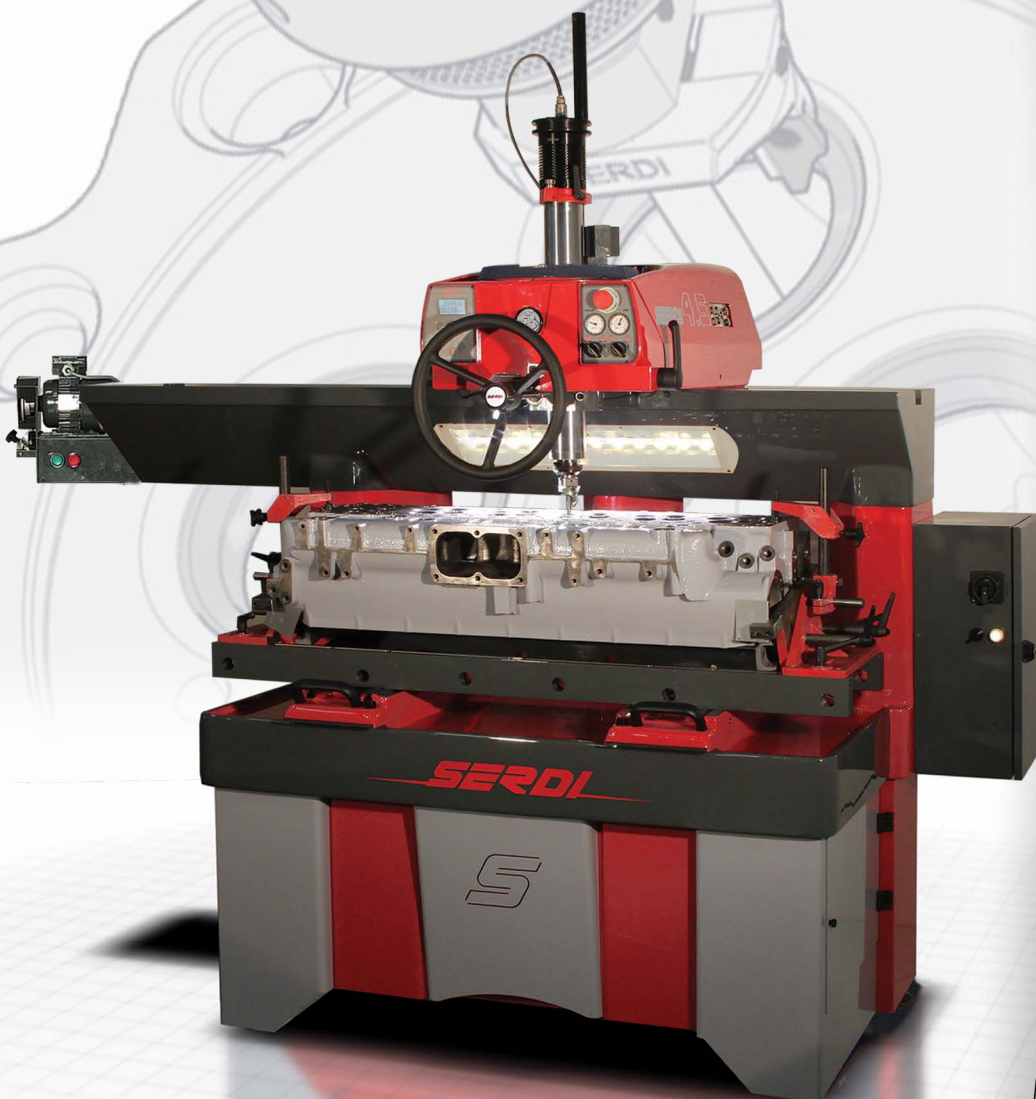


SERDI

4.5

Very accurate, all-purpose machine to ream the guides and cut the valve seats. Triple air-float patented centering system and powerful spindle with built-in motor.

Highly versatile machine producing an accurate machining of the valve seats from the smallest to the biggest diameter. This machine can repair any existing engine, from the micro-engine up to the big stationary engine. The light-weight floating assembly can machine cylinder heads with guide diameters as small as 4 mm (0.16").



Machining capacity from 16mm to 120mm / 0.6" to 4.72".

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

Mechanical clamping of the work head on the machine bed with pneumatic clamping jack and vacuum system.

Fully integrated spindle motor, variable speed from 40 to 800 RPM, with sensorless Vector Flux Control. Forward and reverse directions. Extremely wide torque ratings from lowest RPM with constant torque spindle rotation.

Digital spindle speed rotation and depth read out.

Modern modular machine bed made of iron cast, designed for improved rigidity. Computer enhanced static and dynamic characteristics provide the latest in machining technology.

Fully pneumatic machine.

Fitted with the new SERDI tooling that decreases the cutting force by 30%, this machine will cut the hardest seats.

TECHNICAL FEATURES

Space requirements

Length (standard)	mm / inch	2000/68.9
- with optional parking area	mm/inch	2400/95
Width	mm / inch	1150/45.3
Height	mm / inch	2320/91.4

Max cylinder head dimensions

Length	mm / inch	unlimited
Width	mm / inch	500/19.7
Height	mm / inch	475/18.7

Table travel

	mm/inch	160/6.7
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Machining capacity Ø min - max

	mm	16 to 120
	inch	0.6 to 4.73

Workhead travel

Lengthwise (standard)	mm / inch	990/39
- with optional parking area	mm/inch	1440/56.7
Crosswise	mm / inch	40/1.6
Sphere-cylinder travel	mm / inch	14/0.5

Spindle

Max. spindle inclination	degrees	5
Spindle travel standard	mm / inch	240/9.4
- with long spindle option	mm/inch	290/11.4
Spindle motor power	KW / HP	2.2 / 3
Spindle rotation speed	RPM	40 to 840

Connections

Power supply	4kVA-230V-AC-1Ph-50/60 Hz	
Pneumatic supply	bar / psi	6/87
Max. air flow	l/mn -CFM	400/15
Noise level at 300 RPM	DbA	72
Noise level at 800 RPM	DbA	82
Net weight approx. with parking area	kg / lbs	1500/3439 1650/3637

BASIC EQUIPMENT

Clamping system kit 020641

011915	Universal quick clamp x 2
010416	Short clamping bar x 2
010426	Long clamping bar x 2
010432	End clamping plate x 2
011425	Clamping block x 2
013958	Tilting fixture
014039	U parallel x 2
010434	2 Parallels 30x50x242 mm (1.18x1.97x9.53in)
017577	2 High parallels 20x38x300mm (0.787x1.5x11.8in)
009796	Set of 6 long pins
017576	Set of 6 short pins

Accessories kit

405882	Magnetic depth stop
014240	Tool cart
010119	Carbide bit sharpener
405580	Tool setting device SERDI 4200
304697	Set of 7 pads

