

Veryaccurate, all-purpose machine to ream the guides and cultibevalveseats. Tripleal Albat patented centering system and powerful spindle with built-in motor.

Highlyversatile 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 microengineup(totheldgstationaryengine.Thelight+weight(floating assembly can machine cylinder heads with guide diameters as

smallas4mm(0.167).

/ 0.6" to 4.72". Patented lightweight workhead: built-in spindle motor and triple air-float centering system.

from 16mm to 120mm

Machining capacity

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.

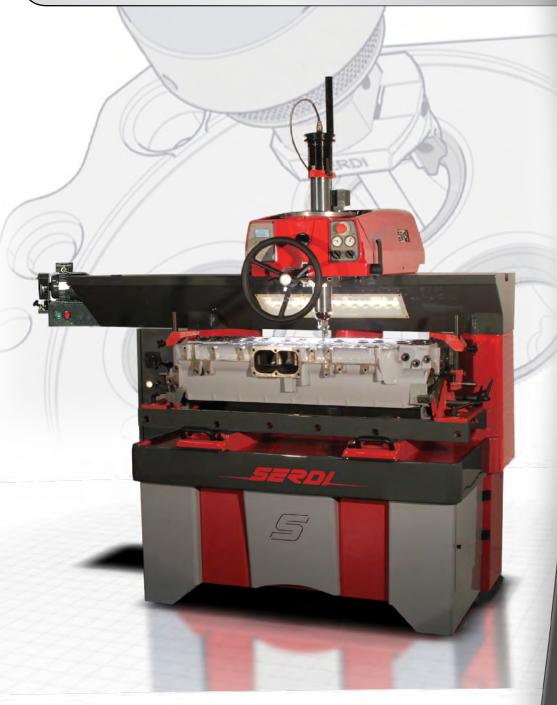
Fully integrated spindle motor, variable speed from 40 to 840 RPM, paired to a 2.2 kW Siemens inverter. Digital spindle speed rotation and depth read out.

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 and electric machine.

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



Patent U.S.A. N° 5,769,576 European Patent N° 0833711



TRIPLE

Our triple air cu spindle decreas floating parts which improve

It does automa guide regardle or angular de pilot

SPINDLE SPECIFICATIONS



A 2.2 KW built-in motor-spindle with maximum torque from 40 to 385 rpm and a maximum speed of 840 rpm.

Stator cooled by heat sink

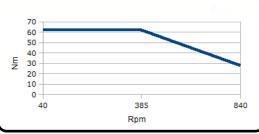
Rigid heavy duty motorspindle of 3.15 in (80 mm) diameter for machining without chatter.

Get the best machining accuracy thanks to a high precision tooth rack and a whole spindle assembly rigid and concentric to the valve guide.

LED LIGHTNING

The machining head and beam are both equiped with LED lightning for an increased light ratio and a better energy saving.

MOTOR SPINDLE TORQUE CURVE



TOOL SHARPENER

Diamond wheel cutting bit sharpener

PARKING AREA



This extra length on the beam (optional) is available to ease the mounting and unmounting of large and heavy cylinder heads on the floating table.

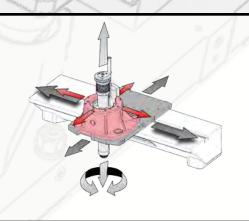
INTEGRATED VACUUM TESTER

For a fast valve sealing check before removing the cylinder head.

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.





Spindle control buttons located just behind the handwheel to change with ease the spindle speed rotation, switch spindle direction or reset the depth control measurement.

Digital depth control accurate until 0.0004 in (0.01 mm).

Two switch buttons to fastly enable both sphere and cylinder cushions, or lock them.

Large handwheel for a better control of machining depth.

CONTROL PANEL

Racing:

Marine:

Applications:

Heavy diesel:

Stationary engines:



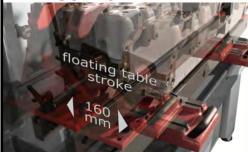
Motorcycle:



Automotive:







Cylinder heads up to 350 kgs can be moved back and forth without any effort and then locked by two powerful pneumatic jacks.



TECHNICAL FEATURES Space requirements Length (standard) mm / inch 2000/68.9 - with optional parking area mm/inch 2200/86 Width mm / inch 1150/45.3 Height mm / inch 2320/91.4 Max cylinder head dimensions Length mm / inch unlimited Width 500/19.7 mm / inch Height mm / inch 475/18.7 Table travel mm/inch 160/6.7 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 1440/56.7 mm/inch Crosswise mm / inch 40/1.6 Sphere-cylinder travel mm / inch 14/0.5 Spindle Max. spindle inclination 5 degrees 240/9.4 Spindle travel standard mm / inch - 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 I/mn -CFM 400/15 Noise level at 300 RPM Dba 72 Noise level at 800 RPM Dba 82 Net weight approx. kg / lbs 1500/3439

BASIC EQUIPMENT

Clamping	g system kit 020641
011915	Universal quick clamp x 2
010416	Short claming 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
	200



033828 Carbide bit sharpener



405580 Setting device SERDI 4200



024298 Bubble level





with parking area







MACHINES SERDI S.A.

23, avenue des vieux moulins B.P. 380 74012 Annecy Cedex

France

1 00 33 4 50 65 63 00

Fax: 00 33 4 50 52 99 92

www.serdi.com

Email: export@serdi.com

SERDI CORP.

1650/3637

1526 Litton Drive Stone mountain Georgia 30083 USA

1 (770) 493 82 20

Fax: (770) 493 83 23

Your distributor:

Our machines are designed and made in France

Our tooling is made in France and in the USA

