

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 microengine 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").



4.5

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.

World Class Technology

SERVICE QUALITY RELIABILIT



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.

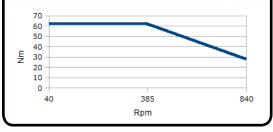
LED LIGHTNING

standard

spindle (optiona

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.

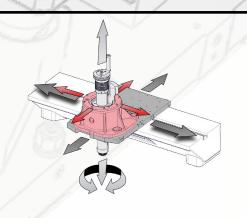
INTEGRATED VACUUM TESTER

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

AIR CUSHION

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

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



CONTROL PANEL



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.



Racing:



AIR FLOATING SUPPORT TABLE



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

Applications:

Heavy diesel:



Stationary engines:



Marine:





Motorcycle:



Automotive:







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 dimension	าร	
Length	mm / inch	unlimited
Width	mm / inch	500/19.7
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	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.	kg / lbs	1500/3439

Clamping 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	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	04697 Set of 7 pads	

BASIC EQUIPMENT



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- Werkzeugmaschinen

Our machines are designed and made in France

Our tooling is made in France and in the USA

