



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").

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





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 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.



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.

MOTOR SPINDLE TORQUE CURVE





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.

TOOL SHARPENER

Diamond wheel cutting bit sharpener

INTEGRATED VACUUM TESTER

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

LED LIGHTNING

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

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.







Stationary engines:



Marine:



Racing:



Motorcycle:



Automotive:



4.5

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.

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.

TECHNICAL I	EAIURE	S		BASIC EQ	UIPMENT
Space requirements			Clamping	system kit 02064	41
Length (standard)	mm / inch	2000/68.9	011915	Universal quick clamp x 2	
- with optional parking area	mm/inch	2200/86	010416	Short claming bar x 2	
Width	mm / inch	1150/45.3	010426	Long clamping bar x 2	
Height	mm / inch	2320/91.4	010432	End clamping plate x 2	
Max cylinder head dimensions	min y men	2520/51.4	011425	Clamping block x 2	
	mm / inch	unlimited	013958	Tilting fixture	
Length Width		500/19.7	014039	U parallel x 2	
	mm / inch		010434	2 Parallels 30x50x242 mm (1.18x1.97x9.53in)	
Height	mm / inch	475/18.7	01/5//	2 High parallels 20x38x300mm (0.787x1.5x11.8in Set of 6 long pins	
Table travel			017576		of 6 short pins
	mm/inch	160/6.7		500	
Machining capacity Ø min - ma			Ontional	accessories	
	mm	16 to 120	optional	034048	033828
	inch	0.6 to 4.73		Toolrack	Carbide bit sharpener
Workhead travel				Linearan	
Lengthwise (standard)	mm / inch	990/39		Lana.	
 with optional parking area 	mm/inch	1440/56.7			
Crosswise	mm / inch	40/1.6		VERO.	P. C.
Sphere-cylinder travel	mm / inch	14/0.5			
Spindle				405580	024298
Max. spindle inclination	degrees	5	Setting d	levice SERDI 4200	Bubble level
Spindle travel standard	mm / inch	240/9.4			
- with long spindle option	mm/inch	290/11.4		10-	
Spindle motor power	KW / HP	2.2 / 3			
Spindle rotation speed	RPM	40 to 840		9	
Connections					
Power supply 4	kVA-230V-AC-	1Ph-50/60 Hz	Single a	033622 xis rollover fixture	033763 Dual axis roll over fixtur
Pneumatic supply	bar / psi	6/87	C		Recent
Max. air flow	l/mn -CFM	400/15		CHARGE STREET	
Noise level at 300 RPM	Dba	72		and the second s	Acces
Noise level at 800 RPM	Dba	82			C
Net weight approx. with parking area	kg / Ibs	1500/3439 1650/3637			7



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