

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.





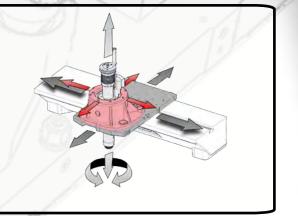
Guide levelling is made with the fine feed setting.

The beam, columns and table bed are made of iro on a welded frame, to keep chatters away

AIR CUSHION

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

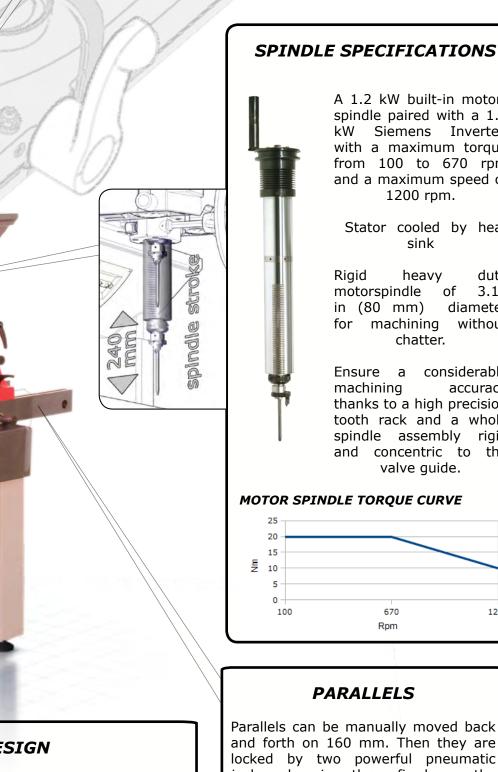
atically align each valve ss of any misalignment flection thanks to live technology.



Applications:

Racing:





n castings, firmly assembled while seat machining.

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 for machining without 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 Rpm

PARALLELS

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:





| TECHNICAL FEATURES Space requirements | | | BASIC EQUIPMENT Clamping system kit 020646 | | |
|---------------------------------------|----------------|----------------|--|---|---------------------------------------|
| | | | | | |
| Width | mm / inch | 1050/41.3 | 010416 | Short c | laming bar x 2 |
| Height | mm / inch | 2170/85.4 | 011425 | Clamping block x 2 | |
| Max cylinder head dimensions | | | 013958 | Tilting 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 | | | ſ | | |
| | 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 | | | | L MINIMUM MARKAN | |
| Lengthwise (standard) | mm / inch | 930/36.6 | | | |
| Crosswise | mm / inch | 50/1.97 | | | |
| Sphere-cylinder travel | mm / inch | 14/0.5 | | | |
| Spindle | | | | | |
| Max. spindle inclination | degrees | 5 | C III | 405580 | 024298 |
| Spindle travel standard | mm / inch | 240/9.4 | Setting o | levice SERDI 4200 | Bubble level |
| Spindle motor power | KW / HP | 1.2 / 1.6 | 1 | | |
| Spindle inverter power | KW / HP | 1.5 / 2 | | De | |
| Spindle rotation speed | RPM | 100 to 1200 | | | |
| Connections | | | | | • |
| Power supply | 2.5kVA-230V-AC | C-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 | | | Neces |
| Noise level at 400 RPM | Dba | 72 | | nararenerer 50 | A CONTRACTOR |
| Noise level at 1200 RPM | Dba | 82 | | | alle a a a |
| Net weight approx. | kg / Ibs | 1085/2362 | | | |



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

MACHINES SERDI S.A.

00 33 4 50 65 63 00
 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: