Machine designed on the working principle of the double air-float patented centering system, with an electro spindle delivering powerful torque, a very high rigidity machining head and frame, being able to carry any conventional heads.

Machining capacity from 28 mm to 120mm / 1.1” to 4.72”.

Patented lightweight workhead: built-in spindle motor and dual air-float centering system.

Fully integrated spindle motor, variable speed from 40 to 840 RPM, paired to a 2.2 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.
**TECHNICAL FEATURES**

**Space requirements**

- Length: mm / inch 1690/66.5
- Width: mm / inch 1050/41.3
- Height: mm / inch 2170/85.4

**Max cylinder head dimensions**

- Length: mm / inch 1200/47.2
- Width: mm / inch 500/19.7
- Height: mm / inch 450/17.7
- Crosswise work piece tilting: degrees +42° to −15°

**Machining capacity min - max**

- mm: 28 to 120
- inch: 1.1 to 4.72

**Workhead travel**

- Lengthwise: mm / inch 1016/40
- Crosswise: mm / inch 44/1.7

**Spindle**

- Max. spindle inclination: degrees 5
- Spindle travel: mm / inch 240/9.4
- Spindle motor power: W 2200
- 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 300/11
- Noise level at 400 RPM: Dba 72
- Noise level at 1200 RPM: Dba 82
- Net weight approx.: kg / lbs 1085/2392

**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)...  

**Optional accessories**

- 034048 Toolrack
- 033828 Carbide bit sharpener
- 405580 Setting device SERDI 4200
- 024298 Bubble level
- 033622 Single axis rollover fixture
- 033763 Dual axis rollover fixture

**MOTOR SPINDLE TORQUE CURVE**

**MOTOR SPINDLE**

- One-piece quill, chromed before grinding.
- High precision toothed rack.
- 2.2 kW motor, with stator cooled by heat sink.
- ISO30 taper with driving device
- Locking of the spindle by electronic control

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SERDI reserves the right to make changes in design, specifications and descriptions without notice.

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