



# SERDI

# 2.0 ES

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

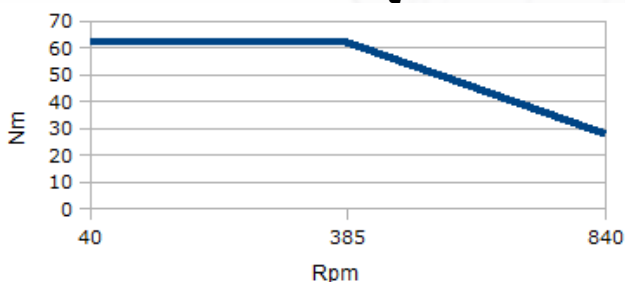


033763

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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