

SERDI SRL Unipersonale  
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Cap.Soc. € 52.000,00 int.vers.  
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## **CYLINDER HEAD VALVE SEAT AND VALVE GUIDE MACHINE EVO CLASSIC**

High precision machine with technologically advanced technical solutions, conceived to work seats and valve guides of all kinds of cylinder motor heads.

5 air cushions with individual setting.

Automatic centering system based on the spherical and flat air-float cushion crossed action principle, electronic motor control with variable speed and digital counter display (Inverter). High speed and silenced bearings on the spindle

FIVE air cushions. The first one on the upper bed, on the spindle head (2 axis). The second one on the spindle (spherical cushion 360°). The third one on the spindle, powered through air piston with relieving system. Zero effort on the spindle (Z axis), implemented by an air column (piston) with relieving system that reduces the chattering possibilities during the machining. The fourth and the fifth one on the clamping fixture lower bed (2 axis – 1370 mm bars). All air cushions have individual setting device. Machine spindle head clamping by double pneumatic jack.

Universal, reliable and safe machine. Machining capacity with greatest precision on all kind of seats of all kind of cylinder motor head, from motorcycle to industrial vehicle. Allows the machining from guides of 3,5 mm and diameters between 14 and 80 mm.

Universal clamping fixture 2 jaws type, 360° rotation with accessories for all kind of cylinder motor heads or alternative universal tilting clamping fixture and flat heads clamping fixture with accessories. Clamping on the lower bed with two pneumatic jacks.

Extremely solid structure, single body steel bed. Air floating flat cushion on lower table allows a precise centering and relieve the effort.

Registrable mechanical end of stroke for repetitive works.

Integrated lighting with light on the base of the machine and two lamps on the spindle work head.

Vacuum checker, carbide bit sharpener and tool rack integrated on the machine.

Standard equipment : Universal 360° revolving 2 jaws clamping fixture or quick swinging clamping system – Double Lighting system – Registrable mechanical end of stroke – Tool setting gauge – Tool holder S-IT5100 – Bit holders - S-IT2000 (18-30 mm) S-IT2001 (28-40 mm) S-IT2002 (40-60 mm) - Carbide bit sharpener with diamond wheel – Vacuum checker with pads – Set of Keys.

Suggested tooling: Set of 12 carbide and steel pilots, set of 10 form carbide bits + 2 counterboring.

Optional equipment: Bit holders S-IT1999 (Small diameters), tool holder S-IT5300 with two bit holders: S-IT2003 and S-IT2004 (for diam. 40-80 mm).



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## **EVO CLASSIC - TECHNICAL DATA**

### Max cylinder head dimensions

Lenght: illimited  
Width : mm 550  
Height: mm 450

### Centering workhead travel

Lenghtwise mm 1080  
Crosswise mm 8

### Cylinder head support table travel

Lenghtwise mm 11  
Crosswise mm 150

Spindle vertical travel	mm 200
Max spindle inclination	6 degrees
Machining capacity	mm 14-80
Spindle motor power	KW 0,75
Spindle rotation speed	35 to 700 rpm with Inverter
Air pressure supply	6-7 Bars
Air volume supply	300 L/min
Electric supply	1,5 kVA - 230 v/50 monophase
Noise level at 700 rpm	60 DBA
Approximative net weight	kg 1200

### **Overall machine dimensions**

Length	mm 1580
Width	mm 1000
Height	mm 2100
Packing dimensions	mm 1700x1170x2210

