

# REvolution



**REvolution** is our new project for a full automatic machine CNC assisted, based on the mechanic of our wellknown EVO range.

**REvolution ONE** is a machine based on the CLASSIC structure with Y axis CNC controlled by our original patented software.

We use the best electronic on the market with the newest state of art on hardware.

Four working ways with free setting parameters (on LCD colour touch-screen):

- Traditional: manual with wheel (vertical depth indexed on the monitor).
- Manual electric : with step to step vertical speed and depth controlled by touch-screen.
- Automatic: vertical feed (with start-end positioning) working in continuous. RPM free indexable during the work with polishing action (400 RPM) at max depth.
- Automatic: vertical feed (with start-end positioning) working step-by step. RPM free indexable during the work with polishing action (400 RPM) at max depth. No screw effects on valves, best on larger seats and harder seat material.

The machine is able to learn the manual work on the first seat and automatically repeats it on the other seats. Repeating quotes with max precision.

All working parameters can be free modified during the working process through the LCD colour touch-screen.

Extremely solid machine structure, single body steel bed.

Machine with 5 air cushions with individual setting: upper bed workhead (2 axis), spherical spindle cushion 360°, spindle Y axis air piston with relieving system, double on the lower bed clamping fixture (2 axis).

Machine spindle workhead and lower bed support clamped by double pneumatic jacks.

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 360° rotating clamping fixture 2 jaws type with accessories for all kind of cylinder motorheads.

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

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

Tool holder S-IT5100 with bit holders S-IT1999 S-IT2000 S-IT2001 S-IT2002 (14-60 mm seat diameter).

Tool holder S-IT5300 with bit holders S-2003 S-IT2004 (40-80 mm seat diameter) optional.

Large flat heads clamping fixture (optional) .

Carbide pilots and cutting bits on choice.



## REvolution - TECHNICAL DATA

### Max cylinder head dimensions

Length: illimited  
Width : mm 550  
Height: mm 410

### Centering workhead travel

Lenghtwise mm 1080  
Crosswise mm 8

### Cylinder head support table travel

Lenghtwise mm 11  
Crosswise mm 150

Spindle vertical depth mm 200  
Max spindle inclination 6 degrees  
Machining capacity mm 14-80  
Spindle motor power KW 0,75  
Spindle feed brushless motor power KW 0,2  
Spindle rotation speed 0 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 monophas  
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

