



Lilliput 350 A Inso

Automatic end milling machine



Cylinder powering tunnel guard 01



Swarf drawer 02



Horizontal end milling machine with electropneumatic feed, full guarding and automatic machining cycle. Milling of intermediate angles, $+45^\circ / 90^\circ / -45^\circ$. Variable speed of tool rotation with electronic inverter for improved quality machining on painted profiles and at intermediate angles. Quick cutter change with pneumatic control. Scratch-proof work table. Fully guarded and sound-damped work zone. The automatically operated sound-damped tunnel (L=1.100 or 2.000 mm) reduces the noise level emitted by the machine down to about 75 dB (only in mitre milling at 90°). The self-tilting indexing stop cancels contact between the stop and the workpiece during feed forward.



Control with Inverter 03

Clamps and intermediate angles 04

Positive indexing stop 05



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01 Cylinder powering tunnel guard

An air cylinder powers the opening/closing of the top door of the sound-damped tunnel guard. Its movement is commanded by the operator acting on the two-hand push button control.

02 Swarf drawer

A swarf drawer at the bottom of the machine allows collecting the swarf caused by machining, thus facilitating cleaning operations.

03 Control with Inverter

The push buttons/switches on the machine control panel allow controlling the hydro-pneumatic cutter feed, air blast for cleaning the clamp base, start-up with safety switch and quick tool change. The presence of an inverter serves for varying the motor rpm which is displayed on the digital readout.

04 Clamps and intermediate angles

The horizontal or vertical clamps are operated pneumatically and are provided with a low pressure device. Intermediate angles are obtained thanks to the possibility of varying the tilt angle from -45° to $+45^{\circ}$ with manual movement. The position is read on the graduated scale.

05 Positive indexing stop

The adjustable 6-position positive indexing stop is equipped with a device that ensures a rapid automatic movement away from the workpiece, to enable the necessary machining to be performed.

TECHNICAL CHARACTERISTICS

Motor with inverter: (kW)	2,2
Variable tool speed: (giri/min.)	4000 ÷ 7000
Travel: (mm)	350
Clamp capacity: H (mm)	240x120
Horizontal and vertical pneumatic clamps with low pressure device	
6-position positive indexing depth stop	
Cutter holder sleeve \varnothing (mm)	27 / 32 x 160
Max. cutter diameter: (mm)	200
LED tool speed readout	
Injection lubrication system	
Predisposition for fume exhauster connection	
Base with tool magazine and swarf drawer	
Profile support roller conveyor, L (mm)	500
Sound-damped tunnel guard with upper door (rear opening)	
Air blast for cleaning clamp base	
Compressed air gun for cleaning	