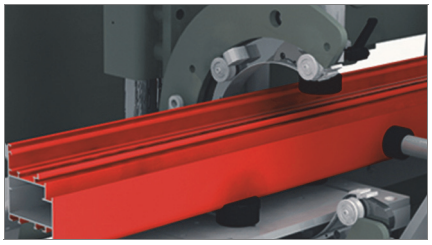
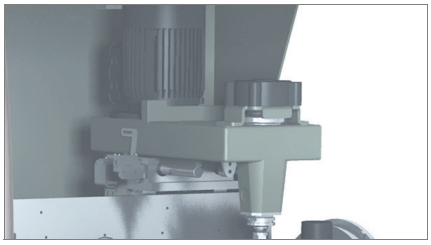
en

Micromatic Star

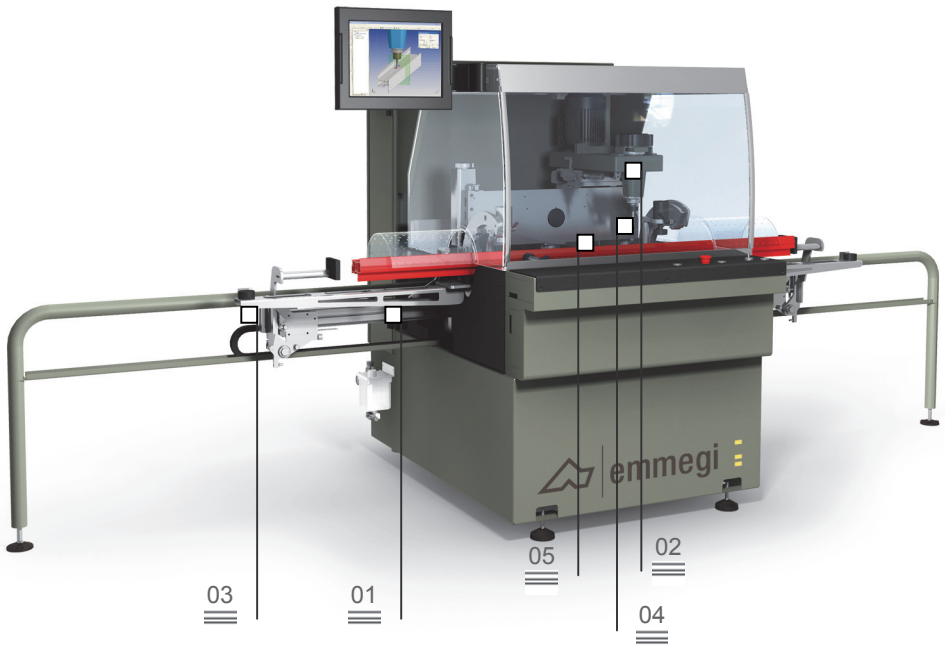
Machining centre



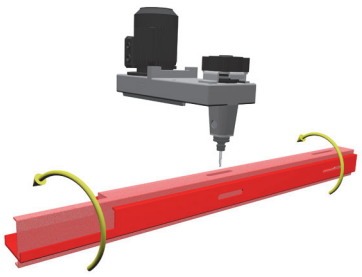
Motor-driven rotary vice table 01



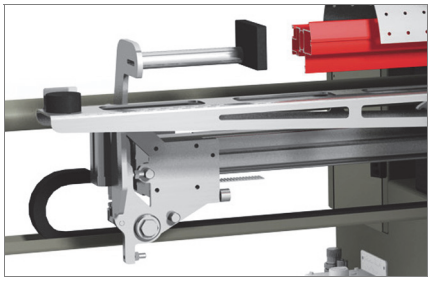
5 motor-driven axes 02



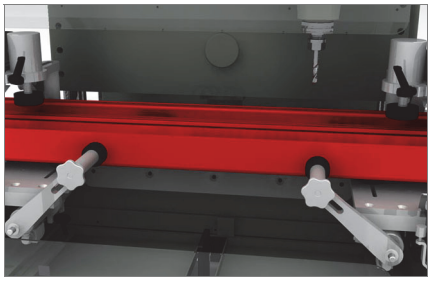
Compact machining centre with 5 controlled axes, the last axis for controlling movement of the workpiece reference stop to right or left for a full control of the work cycle. The rotary vice table (N/C axis) allows machining up to 4 faces of the workpiece without having to unlock the vices. Electrically-driven spindle with variable speed up to 11,500 rpm, quick tool change with collet toolholder, Weldon or with ISO30 taper. Workpiece clamping with 4 vertical vices and 2 horizontal ones with compact size for easier loading of the workpiece.



Stops 03



Vices 04



Tool unclamping 05

The images are only given for illustrative purposes

Micromatic Star

Machining centre

01
Motor-driven rotary vice table

The rotary table allows machining the workpiece on 4 faces without unlocking the vices.
The rotary base is driven by a motor and position control is performed directly by the N/C system.
The profile is placed on counterblocks which can be positioned horizontally or vertically according to requirements.

02
5 motor-driven axes

Despite its compact size, Micromatic Star belongs to the category of N/C machining centres.
Movement of the X, Y, Z, A axes is via rack and pinion drives. For the U axis, the motor/reduction gear unit is incorporated in the linear unit with traversing on slideways.

03
Stops

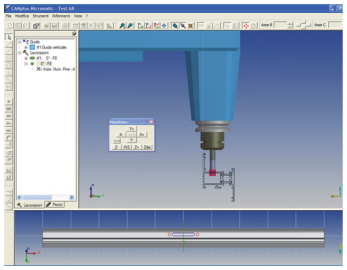
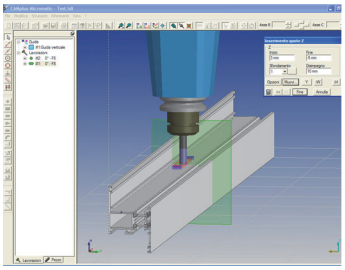
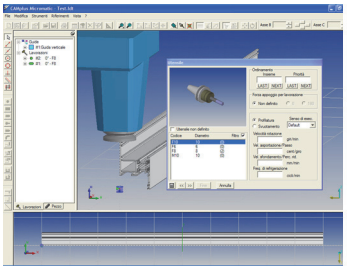
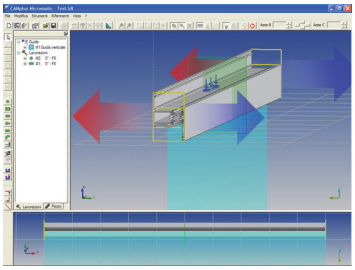
The system of stops, driven by the linear unit, covers work areas up to a max. length of 2800 mm within a compact space.

04
Vices

The set of vices gripping the workpiece consists of 4 vertical vices and 2 horizontal vices which, thanks to the rotary movement, free the work table ready for loading or unloading the profile.

05
Tool unclamping

Micromatic Star is provided with a tooholder (ISO 30 taper) which allows unclamping the tool merely by pressing a button.

AXIS TRAVEL	
X AXIS (longitudinal) (mm)	**370**
Y AXIS (cross) (mm)	**130**
Z AXIS (vertical) (mm)	**140**
A AXIS (automatic workpiece rotation)	**- 180° ÷ + 90°**
U AXIS (bar positioning) (mm)	**1020**
ELECTRO-SPINDLE	
Max. power rating (S1) (kW)	**1,1**
Max. speed (rpm)	**11500**
Tool taper	**ISO 30**
Expansion collet toolholders Weldon	**R16**
Coolant system with minimum quantity coolant	
TOOLS ON BOARD MACHINE	
Max. number of tools in the tool magazine	**6**
Max. tool size which can be loaded in the magazine (mm)	**Ø 10 L=100**
MACHINABLE FACES	
With straight tool (top face, side faces, bottom face)	**4**
MACHINING CAPACITY (Base x Height x Length)	
Max. workpiece size machinable on 4 faces	**120 x 100 x 2800**
PROFILE POSITIONING	
Workpiece reference stops with N/C positioning	**3**
VICES	
Standard number of vices (vertical, horizontal)	**4 + 2**
Manual vice postioning	