

Contour

Horizontal milling machine for contouring PVC profiles



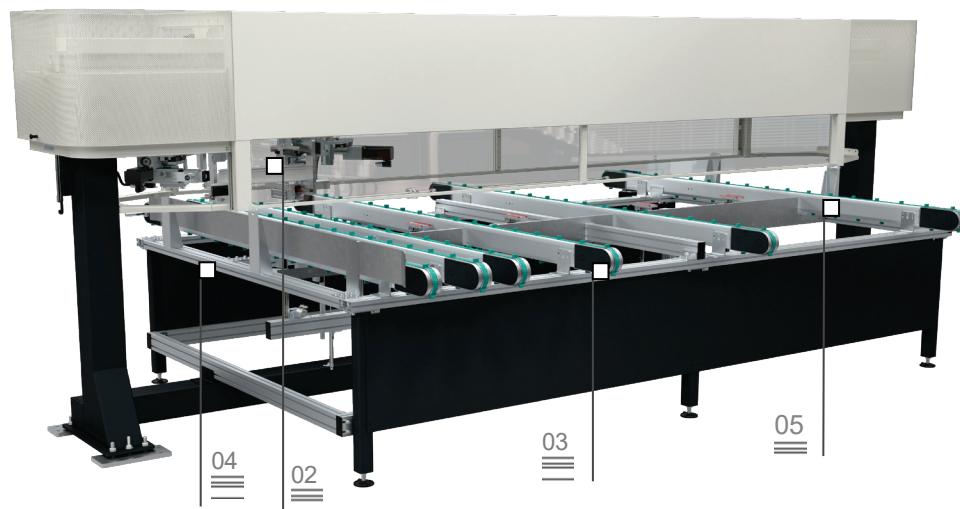
Seamless technology

01



Milling on the two profile ends at the same time

02



Milling machine for machining contour of profiles in PVC, pre-cut at 45° on both sides.

The machine, integrated into the window/door production process with FUSION series Emmegi machines – equipped with Seamless technology counterblocks – contours the profiles, preparing them for the next welding phase with seamless finish.

CONTOUR features two electrospindles that operate at the same time on the profile ends.

The profile feeding and unloading takes place through the front and rear belt loading tables that enable continuous operation, in step with subsequent processes.

Programmable on board machine or through office software, it imports and automatically carries out the default and optimised machining lists.

Ergonomics and easy programming

03



Automatic adjustment at the profile section

04



Automatic loading and unloading

05

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Seamless technology

CONTOUR is upstream of the welding station, and integrates into the PVC window/door production process. It allows optimising the profile edge for a weld with a seamless finish with Seamless technology counterblocks.

02

Milling on the two profile ends at the same time

Two milling units, one fixed on the left and one mobile on the right on the X-axis, operate at the same time on the two profile ends, removing the material necessary for the correct application of Seamless technology. The two units operate on two CNC axes to machine the profile pre-cut at 45°. A fifth CNC axis positions the mobile head in relation to the length of the segment being machined.

03

Ergonomics and easy programming

Special attention has been devoted to the ergonomic aspects of the machine, particularly the segment loading and unloading phases. The simple and ergonomic design meets safety standards and makes using the machine easier by optimising the operator interface.

04

Automatic adjustment at the profile section

The software enables interpolation of the profile edge automatically and preventively, thanks to the set-up of a library in CAD format and the physical detection of the individual profile being machined.

05

Automatic loading and unloading

The belt loading and unloading table enables handling PVC profiles safely, easily and ergonomically. The table features an automatic lifting and positioning system tailored to the profile for the correct machining of the two heads.

AXIS TRAVEL

X2 Axis (mm)	3,350
Y1 – Y2 Axes (mm)	190
Z1 – Z2 Axes (mm)	130

POSITIONING PRECISION

X2 Axis (mm)	0.1
Y1 – Y2 Axes (mm)	0.1
Z1 – Z2 Axes (mm)	0.1

WORK AREA

Maximum machinable profile length (mm)	3,500
Maximum machinable profile height (mm)	100
Minimum machinable profile height (mm)	50
Maximum machinable profile width (mm)	130
Minimum machinable profile width (mm)	50

FUNCTIONS

Seamless counterblocks compatibility	•
Automatic belt loading and unloading table	•

SAFETY DEVICES AND PROTECTIONS

Perimeter shields	•
Full mobile protection of the working area	•
Photocells for upper limb access protection	•
Set up for swarf suction	•

CONTROL UNIT

Ventilated electrical cabinet	•
CNC Panel-PC touchscreen	•
15.6" HD-TFT graphic colour monitor	•
RJ45 network card	•
USB ports	2
Barcode reader	○

- included
- available