

4-AXIS CNC PROFILE CUTTING & MACHINING CENTER



MACHINE DESCRIPTION

Gantry axis CNC PROFILE CUTTING & MACHINING CENTER equipped with 0-180 degrees independently programmable high speed spindle, 45-90-135 degrees automatically tilting sawblade with 600 mm diameter, automatic tool changer magazine, 12 profile clamping devices, pneumatic reference pins and 3D programming software.

Body: All machined metal profile structure. Thermally treated vibration free.

Spindle: 7.5 kW 0 - 24.000 rpm adjustable ISO 30 with ceramic bearings, air-cooled.

Tilting at any angle between 0°-180°.

Automatic Tool Changing Magazine: Placed on the machine bridge, moving along with the machine body with 10 positions of standard tools. The tool changing time is minimized by carrying the tool changer magazine on the bridge. The 300 mm notching blade is also placed inside.

Cutting unit:

3.0 kW 2.800 rpm A/C motor drives the 600 mm sawblade without any vibration during stable radial move. The machine can cut 1 piece that is clamped by 2 pneumatic clamps at a time.

Axis Information:

X-Axis: Real Gantry with 2 servo motors on both sides of the bridge. Brushless servo motors with gears moving on Helical Rack & Pinion and linear guides. V/max: 80 mt/min.

Y-Axis: Brushless servo motors with gears moving on Helical Rack & Pinion and linear guides.

V/max: 60 mt/min.

Z Axis: Servo motor with brake system, moving on ball screw. V/max: 25 mt/min.

Profile machining length: 8.500 mm.

Profile machining & cutting length with both sides 90°: 7.900 mm.

Profile machining & cutting length with both sides 45°: 6.700 mm.

550 mm. x 200 mm. Profile cutting dimension in 90°

550 mm. x 150 mm. Profile cutting dimension in 45°

550 mm. x 350 mm. Profile processing from the top and back.

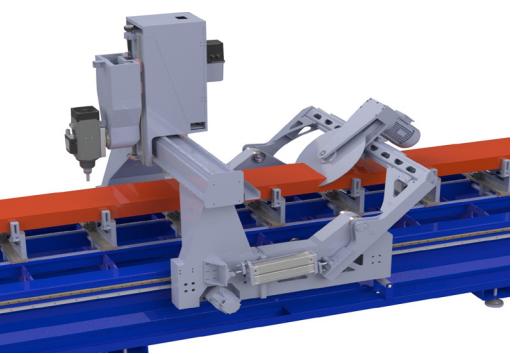
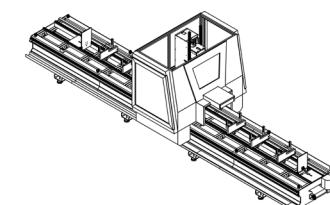
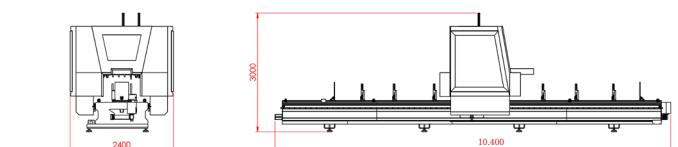
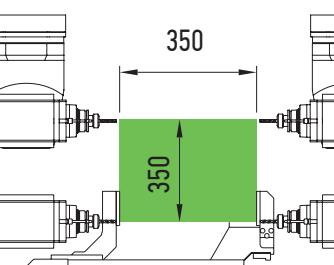
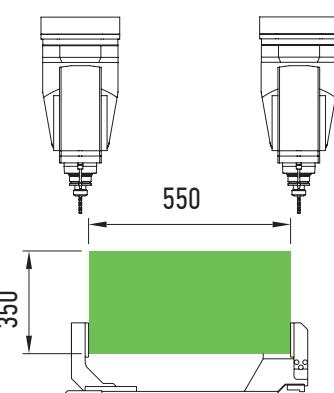
350 mm. x 350 mm. Profile processing in 4 Axis.

Maximum tool length: 300 mm.

Maximum disc cutter diameter: 350 mm.

Total installed power: 27 kW / 80A / 400V / 50-60 Hz.

Air pressure and air consumption: 6-8 Bar. - 100 L/min.



STANDARD EQUIPMENT

Double station working capacity thanks to the pneumatic reference points placed at both sides of the machine.

Manually positioned 12 pieces of profile clamps. The width of the clamps are adjustable and they are also suitable for fixture connection.

45°-90°-135° automatic tilting radial moving sawblade with 600 mm diameter connected on a separate portal behind the bridge. The cutting portal moves together with the bridge.

7.5 kw 24.000 rpm ISO 30 high speed spindle has an automatic tool changer magazine with 10 positions placed stable on the body of the machine.

NC controlled dust extraction conveyor.

Pulse spray mist coolant system.

3D CAD-CAM software.

21.5" TFT-LCD Screen.

Laser safety barriers.

OPTIONAL EQUIPMENT

Automatic positioning of the clamps moved by the bridge.

Data import with barcode reader from production softwares.

12.0 kW 24.000 rpm HSK F63 Liquid cooled Spindle.

Tapping with compensation up to 12 mm.

Disc cutter 300 mm.

Extra clamping unit manually positioned.

Extra clamping unit automatic positioned.

Air conditioning inside the electric panel.