

P2M

Portable Milling Machine

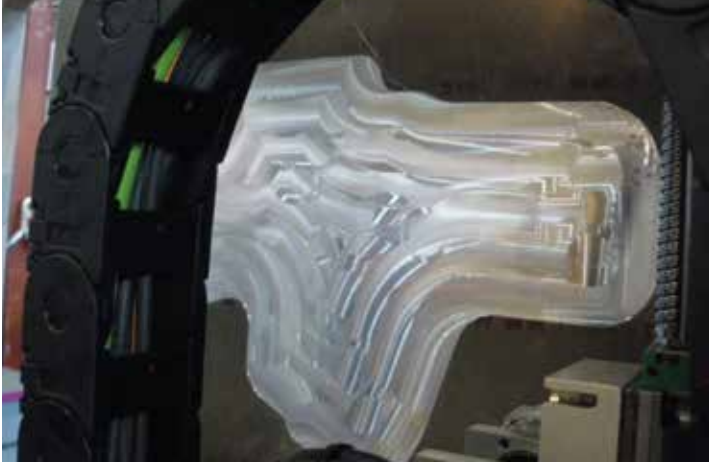


P2M is a rigid and compact milling machine developed to perform local surfacing operations. P2M is designed in flexible configurations: stand alone machine or included in a robotized cell. It is adaptable to different aircraft programs.

- Performance/Flexibility/Adaptability
- Operator safety
- Compliance with CE standards and customer specifications
- Rigid and compact concept
- Integrated electric cabinet
- Metal or composite milling

P2M is available in two configurations to perform local milling operations with adaptability and flexibility

MANUAL MOUNT



A rigid and compact 3-axis milling machine to mill a surface through the frame jig aperture.

PERFORMANCE

Axes kinematics:

- X Axis Stroke: 435 mm*
 - Y Axis Stroke: 320 mm*
 - Z Axis Stroke: 20 mm
 - Feed rate: 3,200 mm/min max
- *Adaptable to the milling surface

Spindle:

- Pneumatic Spindle
- Maximum speed: 15,000 rpm
- Maximum power: 2 kW

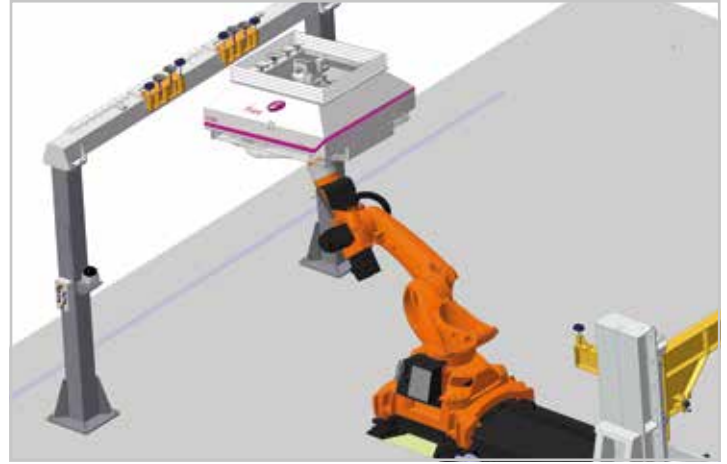
Numerical Control:

- BECKHOFF control

KEY ADVANTAGES

- 24 volts battery for 2 hours autonomy in full milling conditions
- Chip recovery
- Protective housing by controlled access door
- Flexible machining process

ROBOT MOUNT



A rigid and compact 4 or 5-axis milling machine carried and positioned to the milling area by the robot, with fully automatic process.

PERFORMANCE

Axes kinematics:

- X Axis Stroke: 600 mm*
 - Y Axis Stroke: 520 mm*
 - Z Axis Stroke: 20 mm
 - A Axis: +/- 5°
 - B Axis: +/- 5°
 - Feed rate : 6,500 mm/mn
 - Positioning Accuracy : +/- 0,05 mm
 - Repeatability: +/- 0,03 mm
- *Adaptable to the milling surface

High speed Spindle:

- Speed: 12,000 rpm
- Power: 5 kW
- Attachment: HSK 32

Numerical Control:

- SIEMENS control

KEY ADVANTAGES

- Automatic tool changer
- Vision system to position P2M in place
- Automatic positioning of the tangent plane
- Double vacuum removal of dust and chips