Perfect fusion of power and precision
POWERMILL

Gantry type milling center for large workpiece machining
**Multi-skilled**

Its massive structure combined with its agility allows the utmost flexible use: from aerospace to general engineering, from aluminium and cast iron to steel alloys.

**Easy workpiece handling**

The simple design allows easy workpiece positioning, set up and clamping even in areas with difficult access.
Several options and a wide range of systems complete the Powermill configuration: automatic head changer, double CNC platform, 120-pocket tool changer, tool cooling system, measuring probe, suction system, guideways pressurization, pendular machining, etc.
The Powermill, designed for the efficient machining of bulky and heavy workpieces, offers significant reductions in costs and timings, while at the same time guaranteeing the required precision.

Application

Finishing of a rotary table
Universal milling head with automatic millesimal positioning with air/oil lubrication and water cooling

Milling head with offset spindle

Full 5 axes fork type milling head with high-speed spindle
POWERMILL

Linear axes
- Longitudinal axis travel: from 6000 mm (236”) and over
- Cross axis travel: 4000 - 5000 - 6000 - 7000 mm (158 - 197 - 236 - 276”)
- Vertical axis travel: 1500 - 2000 mm (59 - 79”)
- Feedrate: 30 m/min (1181 ipm)

RAM
- Overall dimension: 640 x 550 mm (25 x 21”)

Numerical control
- Heidenhain: iTNC 530 HSCI
- Siemens: 840D SL

Tool/workpiece cooling system
- Low pressure: 28 l/min; 6 bar
- High pressure (through the spindle): 20 l/min; 20 bar

Accessories
- Milling head with extended spindle: 4000 rpm
- Full 5-axis universal milling head: 6000 rpm
- Milling head with offset spindle: 3000 rpm
- Full 5-axis fork type milling head with high speed spindle: 12000 / 24000 / 26000 rpm
- Automatic tool magazine: 24 / 40 / 64 / 96 / 120 pockets
- Automatic head magazine: 2 / 3 pockets

Universal milling head with automatic millesimal positioning
- Power S1 / S6: 38 / 57 kW (51 - 76 HP)
- Torque S1 / S6: 1000 / 1500 Nm (737.5 - 1106 lbf-ft)
- Rotation speed: 15 - 6000 rpm
- Tool taper standard: ISO 50 DIN 69871
- Option: HSK 100-A DIN 69893

High speed spindle 25 / 36 kW
- Power S1 / S6: 25 / 36 kW (33.5 - 48 HP)
- Torque S1 / S6: 190 / 275 Nm (140 - 203 lbf-ft)
- Rotation speed: 10000 rpm
- Tool taper: HSK 100-A

High speed spindle 25 / 32 kW
- Power S1 / S6: 25 / 32 kW (33.5 - 43 HP)
- Torque S1 / S6: 150 / 275 Nm (113 - 203 lbf-ft)
- Rotation speed: 12000 rpm
- Tool taper: HSK 100-A

High speed spindle 42 / 55 kW
- Power S1 / S6: 42 / 55 kW (56 - 74 HP)
- Torque S1 / S6: 67 / 87.5 Nm (50 - 65 lbf-ft)
- Rotation speed: 24000 rpm
- Tool taper: HSK 63-A

Vertical milling machines

Linearmill

Dynamill

Megamill

www.emco-mecof.it

Mecof S.r.l.
Via Molino 2 · 15070 Belforte Monferrato (AL) · Italy
Phone +39 0143 8201 · Fax: +39 0143 823088 · info@emco-mecof.it

EMCO MECOF Deutschland GmbH
Gottlieb-Daimler-Str. 15 · 74385 Pleidelsheim · Deutschland
Phone +49 7144 8242-0 · Fax +49 7144 8242-10 · info@emco-mecof.de