

emco MECOF

Designed for your profit



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.



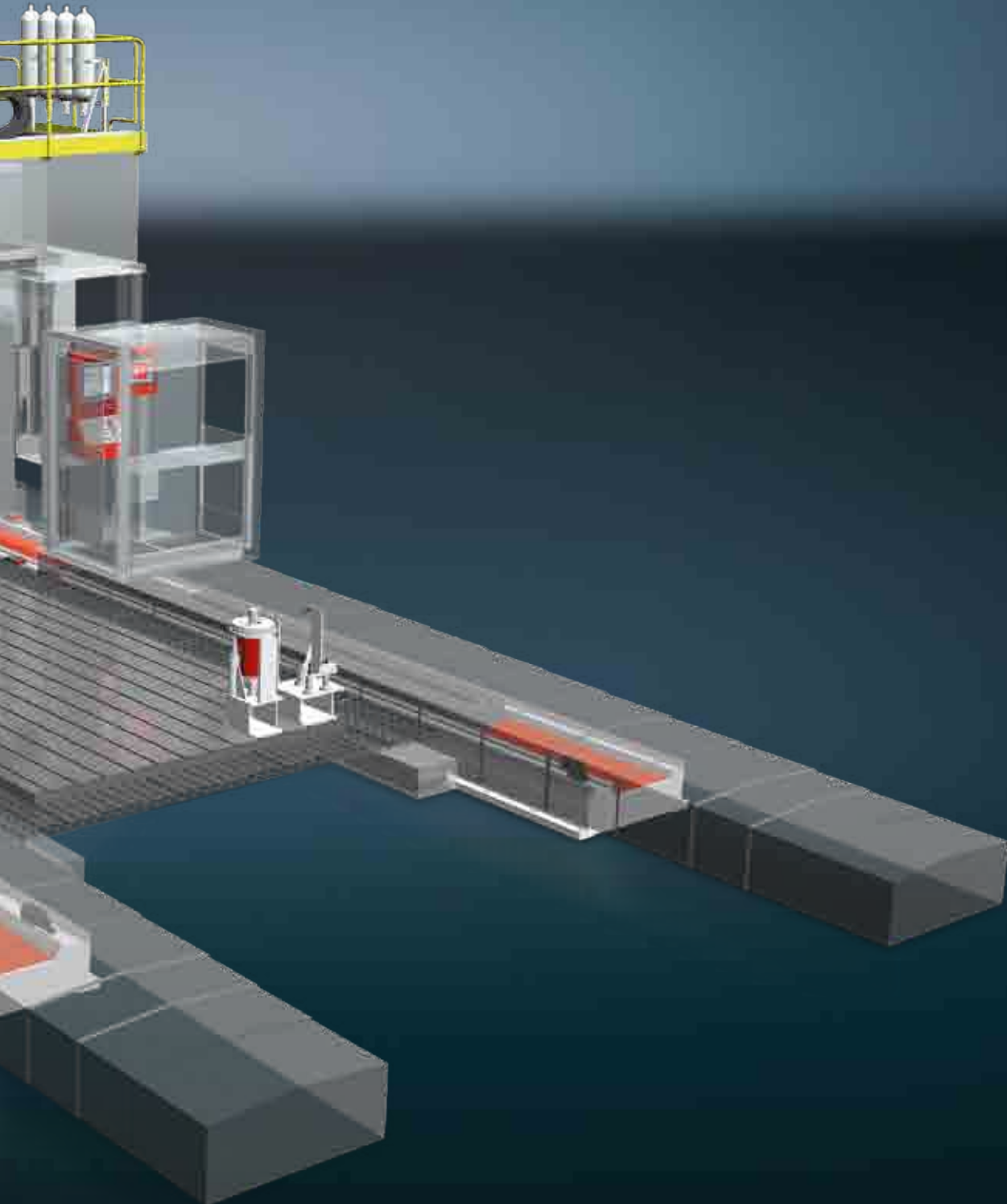
[Easy workpiece handling]

The simple design allows easy workpiece positioning, set up and clamping even in areas with difficult access.



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[Accessories]

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.



Powermill in the RGM configuration, dedicated to the rails machining



Drilling and tapping through the universal milling head on a general engineering component



Milling operation on a machine tool structure component

Application

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.

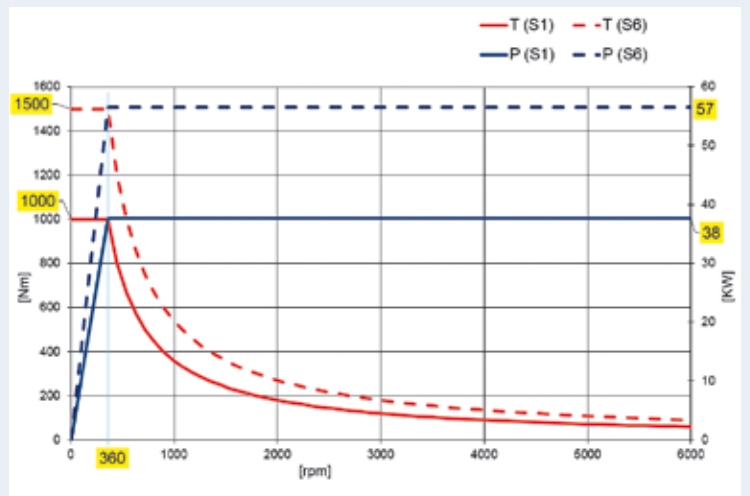


Finishing of a rotary table

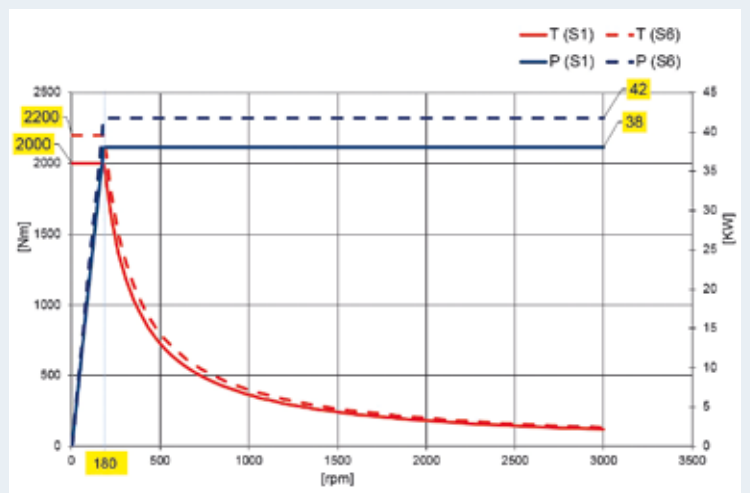
[Milling heads]



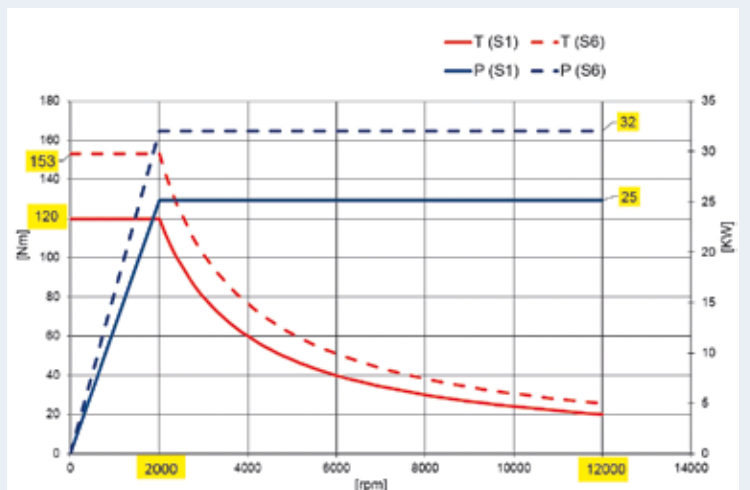
Universal milling head with automatic millesimal positioning with air/oil lubrication and water cooling



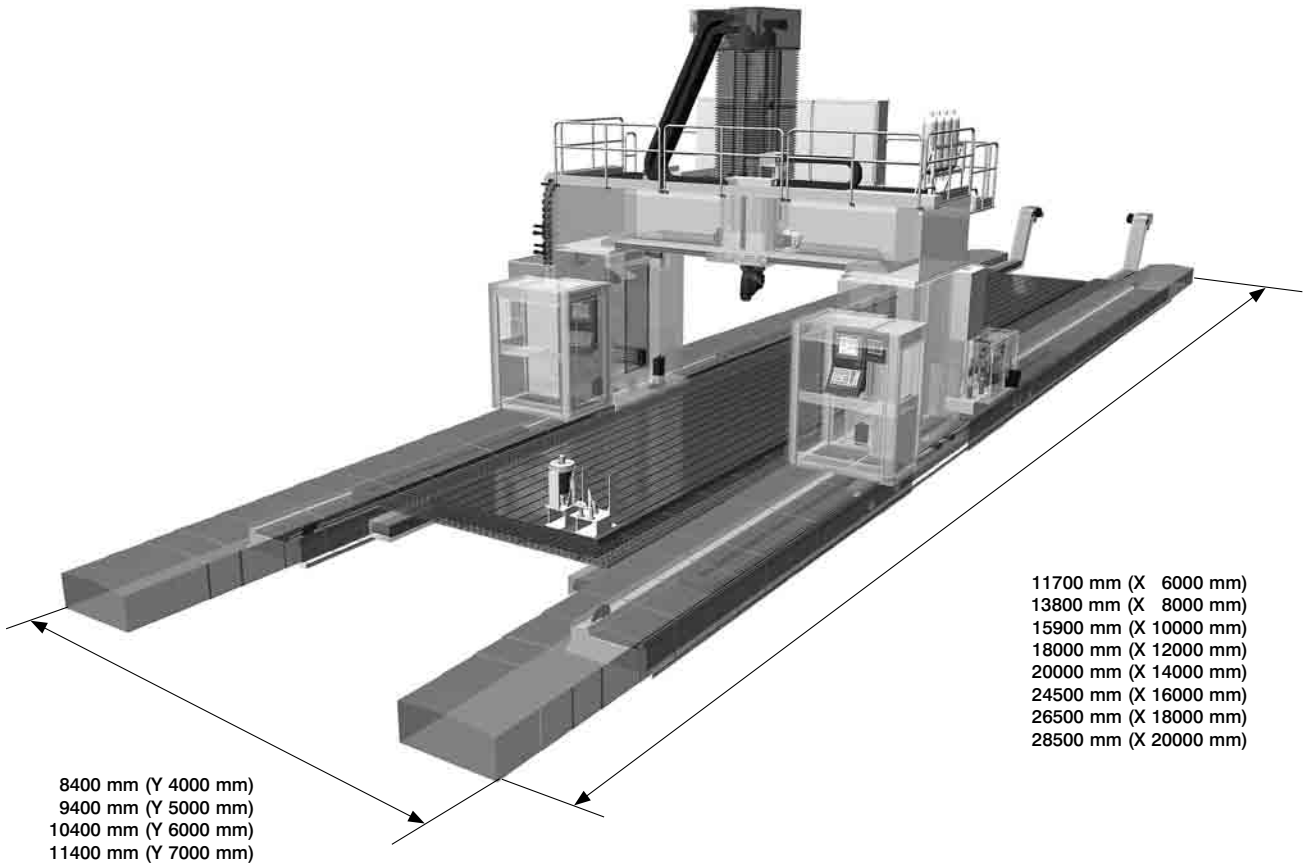
Milling head with offset spindle



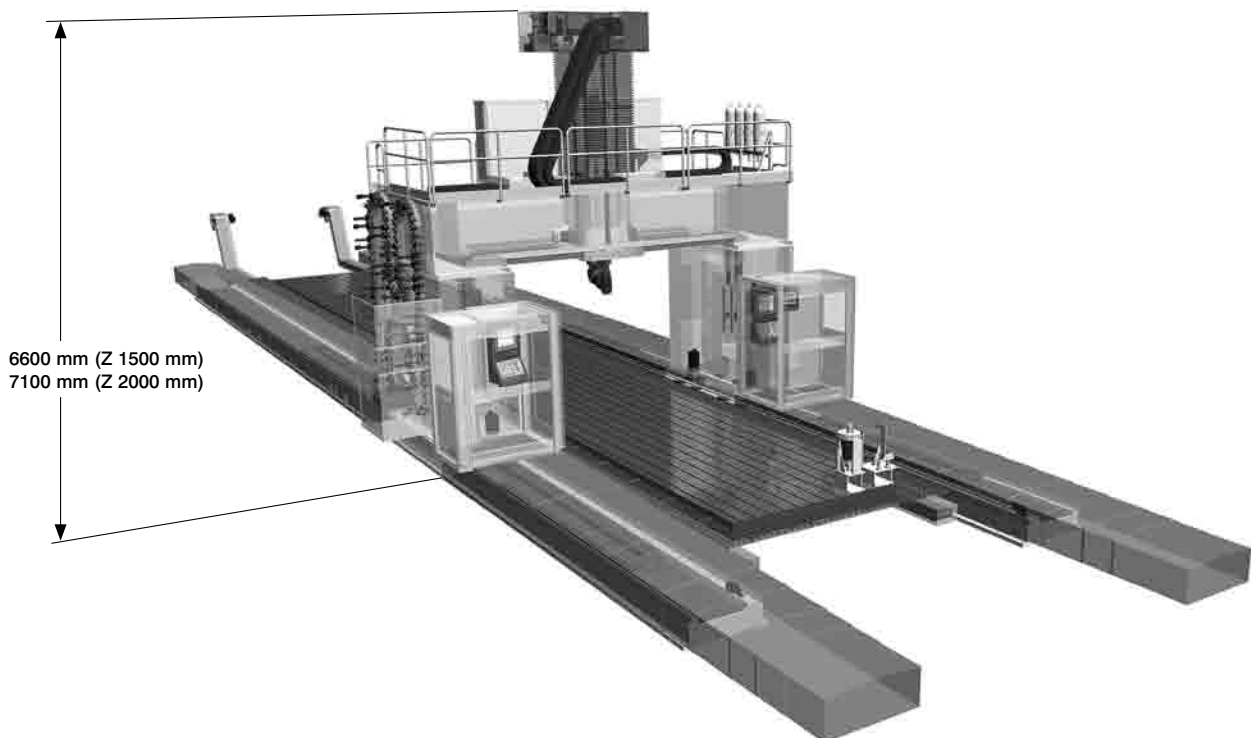
Full 5 axes fork type milling head with high-speed spindle



Layout: overall dimensions



Layout: overall dimensions



[Technical data]

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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	120 / 153 Nm (88.5 - 113 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

09/15 - Technical modifications reserved. Errors and omissions excepted.

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