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High dynamics for complex parts DYNAMILL

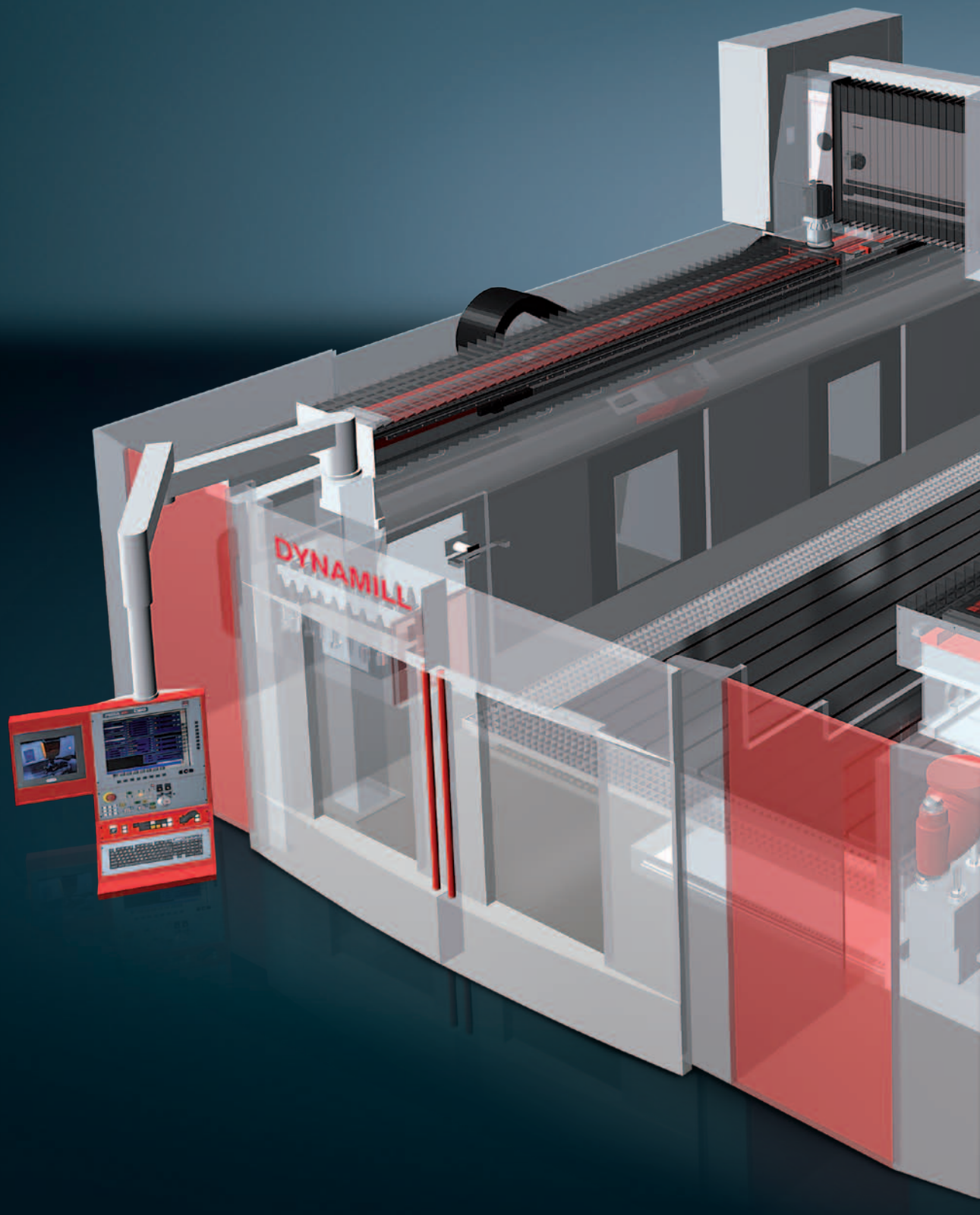
Gantry milling center for 5-axis machinings of superalloys, steel, aluminium and composite materials

[Dynamics and power]

Machining centre with a gantry structure and moving cross beam. Designed and developed by Mecof to satisfy new and demanding manufacturing requirements for the high-speed machining of complex and large workpieces.

[Ecological]

With significantly improved and more efficient energy management compared to traditional Mecof machines, the Dynamill requires up to 20% less electricity and up to 50% fewer consumables.



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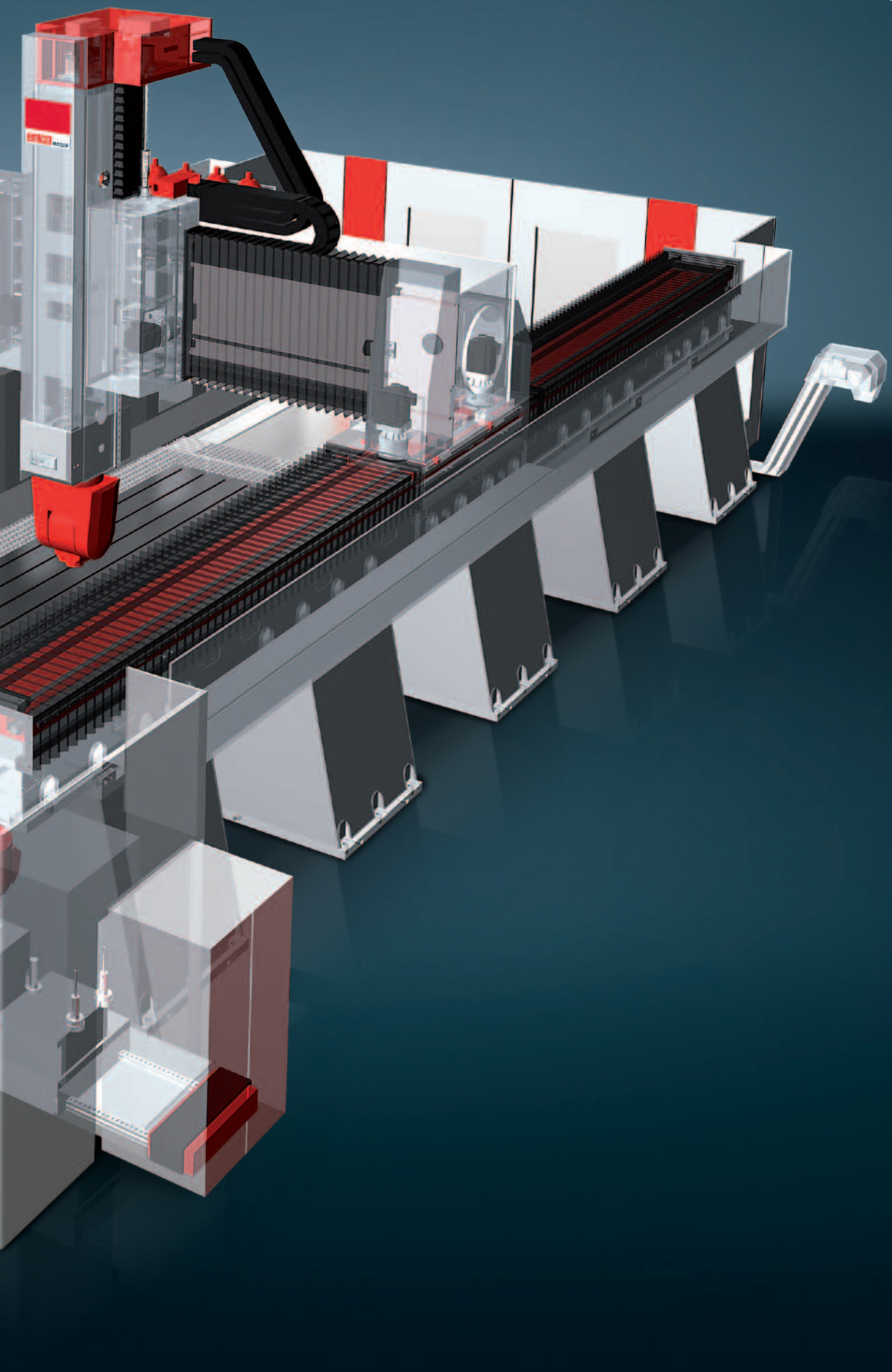
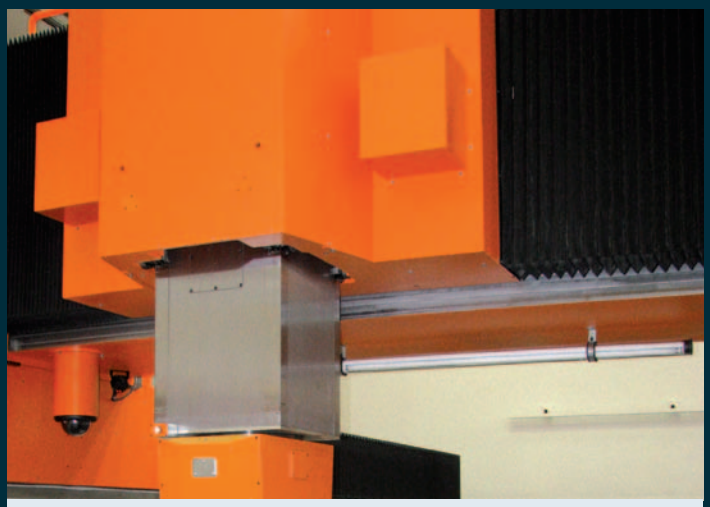
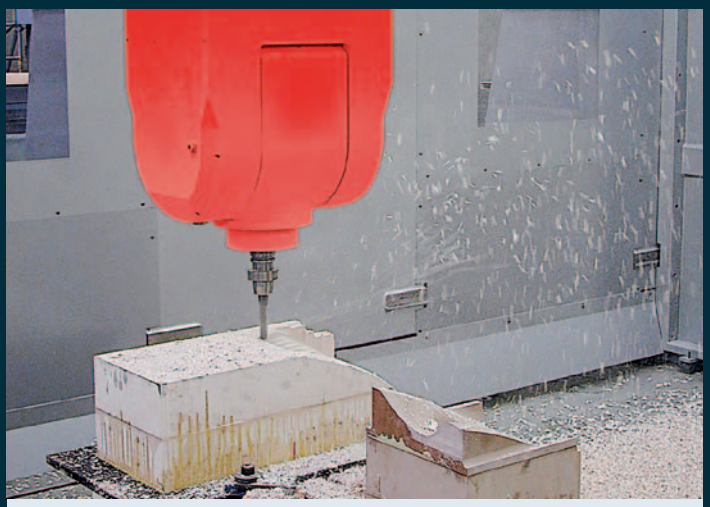


[Technology]

Rigidity and dynamics are distinctive features of the Dynamill: the ideal solution for high-speed machining for medium and large workpieces.



Machining of a plastic injections mould for automotive industry



5-axis machining of a car model section for styling center

High speed machining of injection mould for bumpers in automotive industry

High speed machining of an aluminium car model

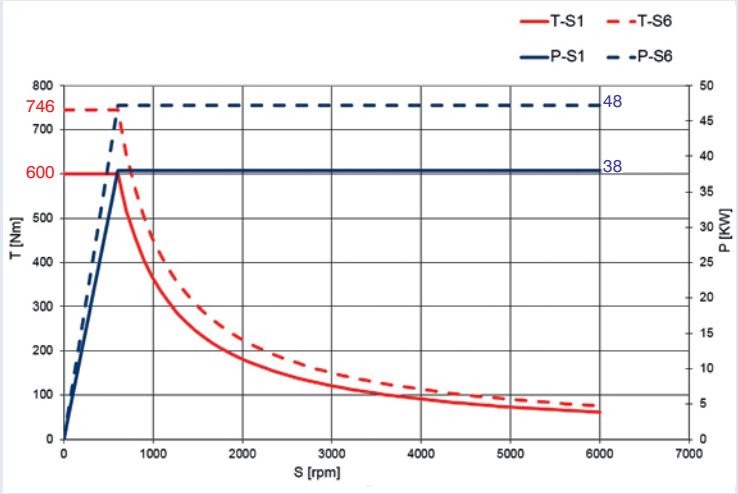
Efficient and innovative

Dynamill completes the advanced range of milling centres with solutions for industrial applications, from moulds and dies, design and styling to sophisticated machining for the aerospace industry.

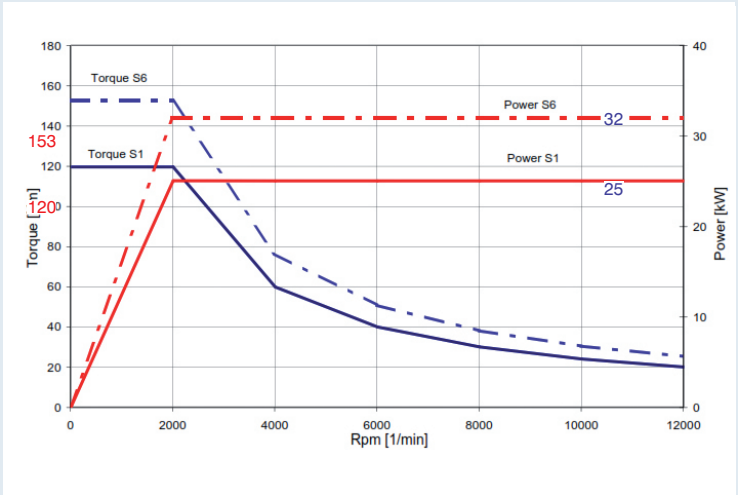
5-axis machining of a titan landing gear for aerospace industry

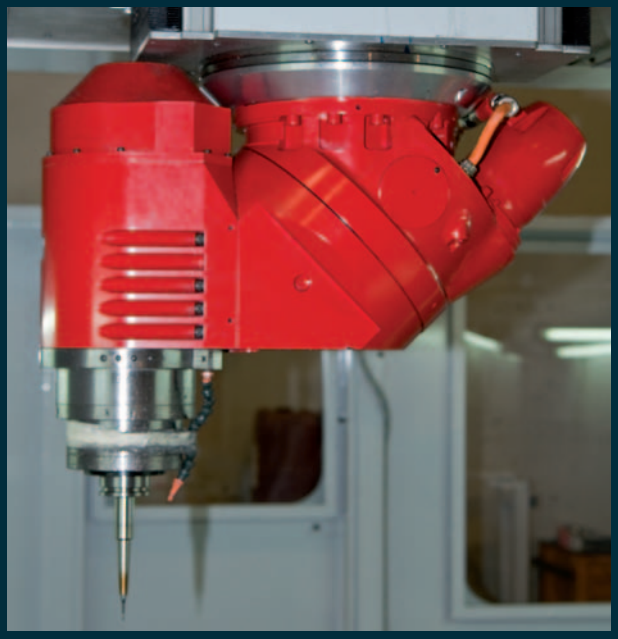
[Available milling heads]

Universal milling head with automatic millesimal positioning

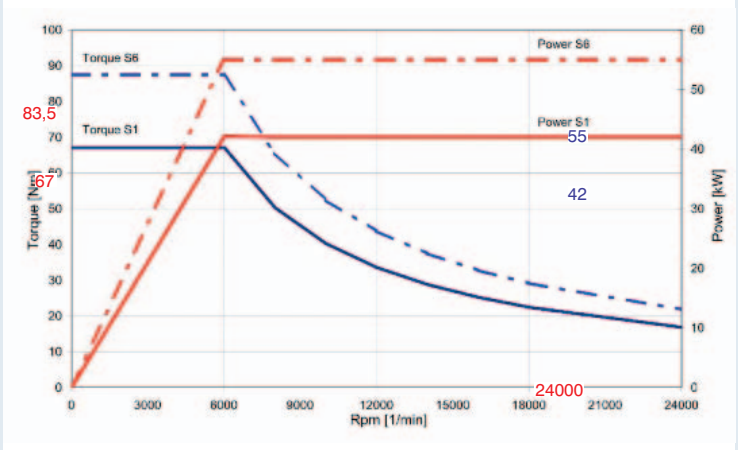


Full 5-axis fork type milling head with high speed spindle

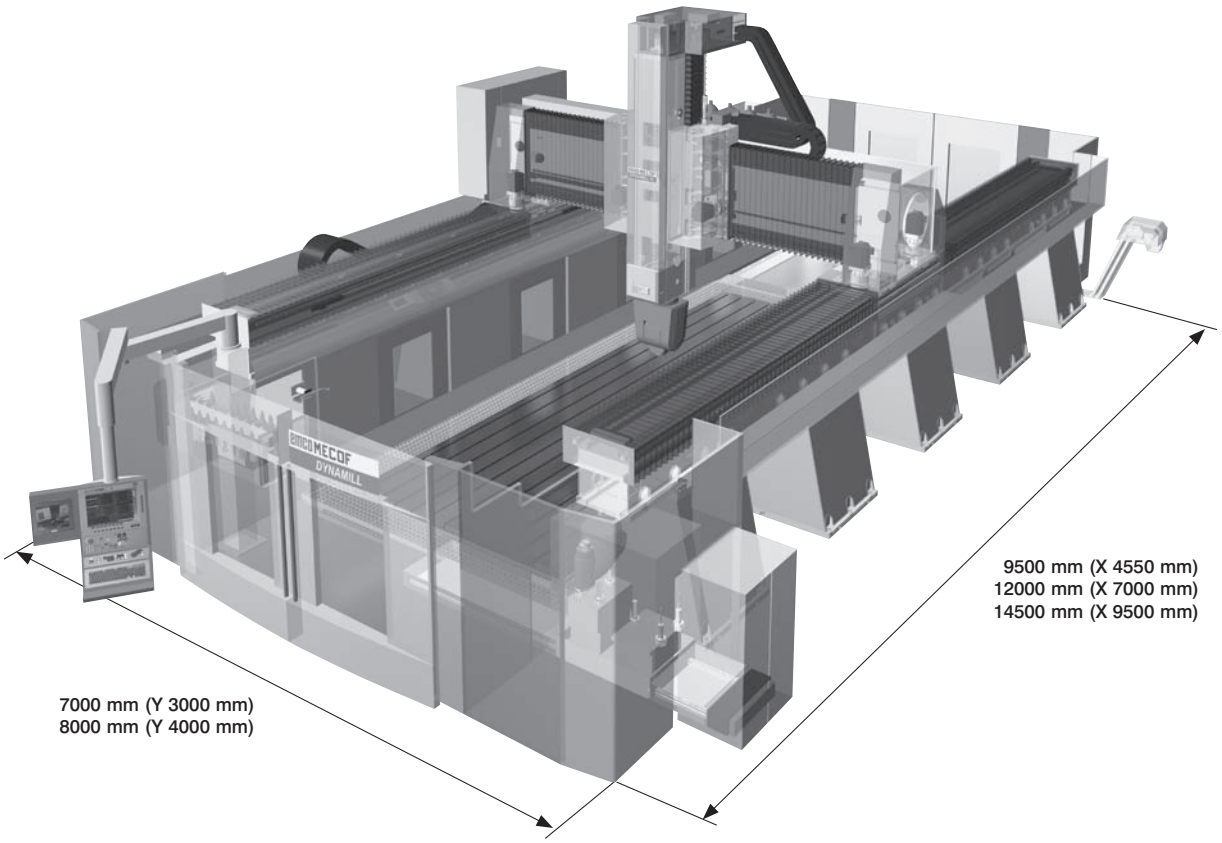




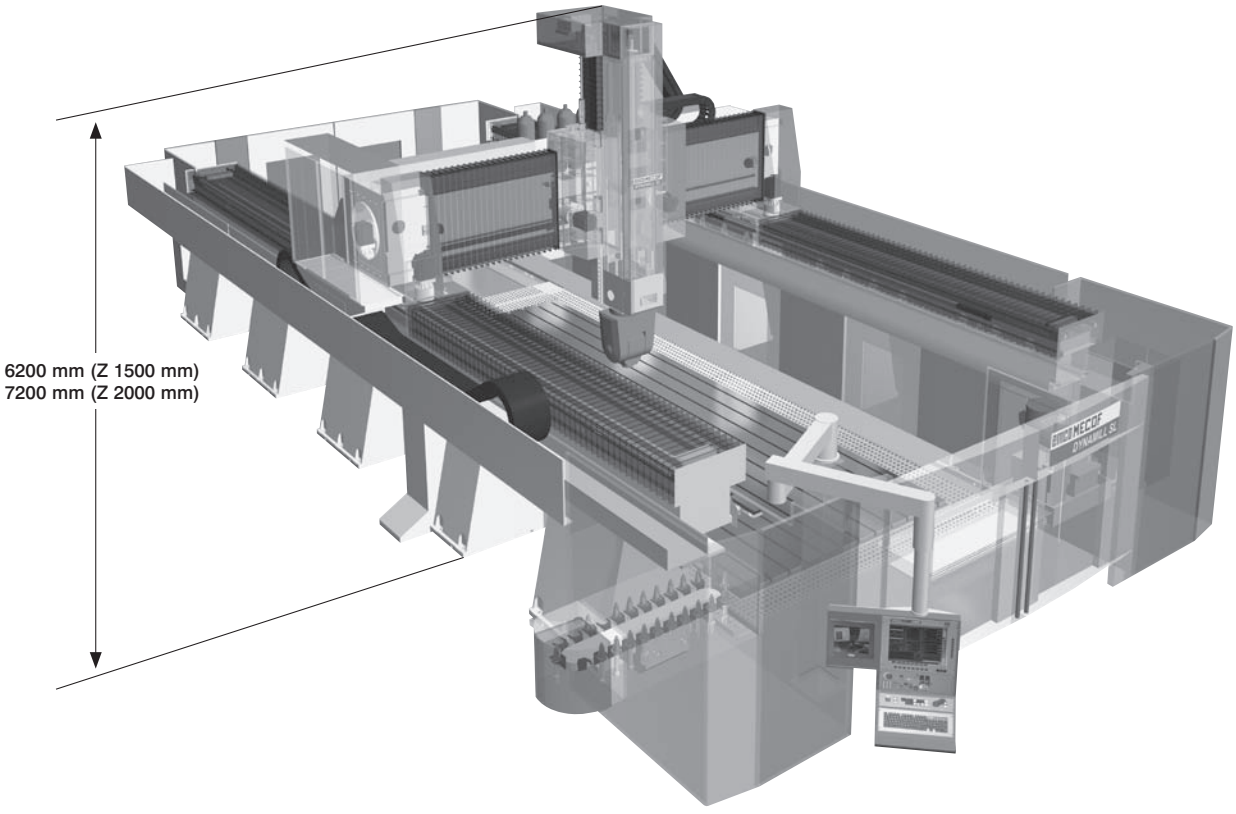
Universal milling head with high speed spindle



Layout: indicative overall dimensions



Layout: indicative overall dimensions



[Technical data]

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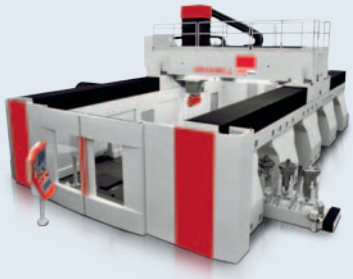
DYNAMILL

Linear axes	
Longitudinal axis travel	4550 mm (180") and more (in steps of 2500 mm – 98")
Cross axis travel	3000 – 4000 mm (118 – 158")
Vertical axis travel	1500 – 2000 – 2500 mm (59 – 79 – 98")
Feedrate	40 m/min (1575 ipm)
RAM	
Overall dimensions	500 x 580 mm (19.6 x 22.8")
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
Options	
Universal milling head with automatic millesimal positioning	6000 rpm
Milling head with extended spindle	4000 rpm
Full 5-axis universal milling head	6000 rpm
Milling head with offset spindle	3000 rpm
Universal milling head with high speed spindle	24000 rpm
Full 5-axis fork type milling head with high speed spindle	12000 / 24000 / 26000 rpm
Automatic tool magazine	24 / 40 / 64 / 96 pockets
Automatic head magazine	2 / 3 pockets

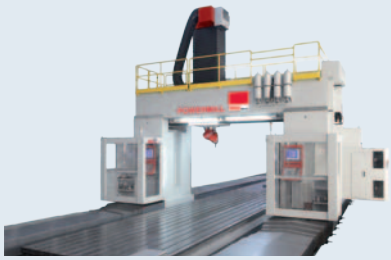
Spindle	
Power S1 / S6	60 / 75 kW (80 – 100 HP)
Torque S1 / S6	600 / 750 Nm (443 – 553 lbf-ft)
Rotation speed	15 ÷ 6000 rpm
Tool taper standard	ISO 50 DIN 69871
Option	HSK 100-A DIN 69893
High speed spindle 25 / 32 kW	
Power S1 / S6	25 / 32 kW (33.5 – 43 HP)
Torque S1 / S6	120 / 153 Nm (88.5 – 113 lbf-ft)
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
High speed spindle 41 / 52 kW	
Power S1 / S6	41 / 52 kW (55 – 70 HP)
Torque S1 / S6	35.8 / 46 Nm (26 – 34 lbf-ft)
Rotation speed	26000 rpm
Tool taper	HSK 63-A

Vertical milling machines

Linearmill



Megamill



Powermill

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