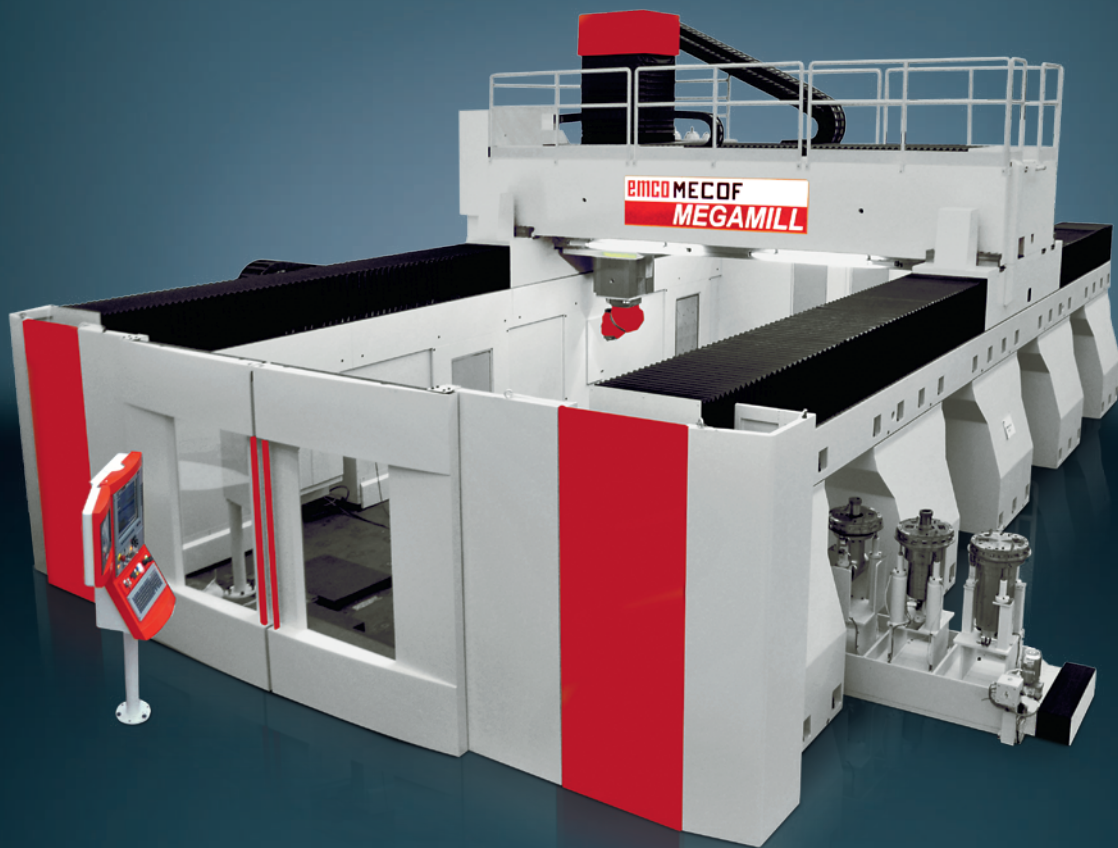


[E[M]CONOMY]
means:

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High Power and Accuracy in Milling MEGAMILL

Milling center with upper gantry structure and moving crossbeam for machining of large size workpieces

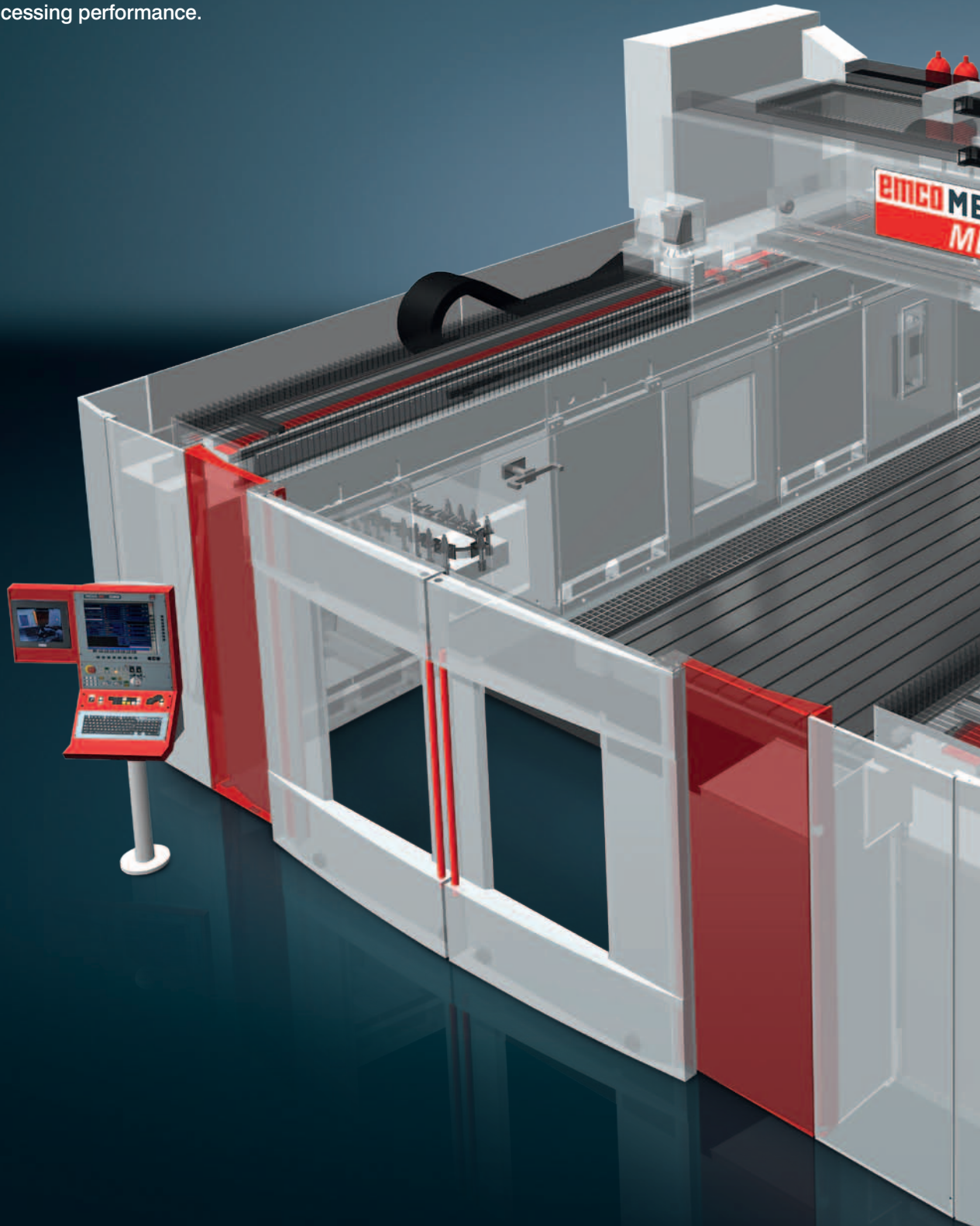
[Dynamics and power]

Thanks to a design, by the finite element method FEM, aimed at achieving the high performance in dynamics and removal, the milling center MEGAMILL is capable of high speed values (up to 30 m/min both in working and rapid), with meaningful values of torque and power (up to 1200 Nm and 40 kW).



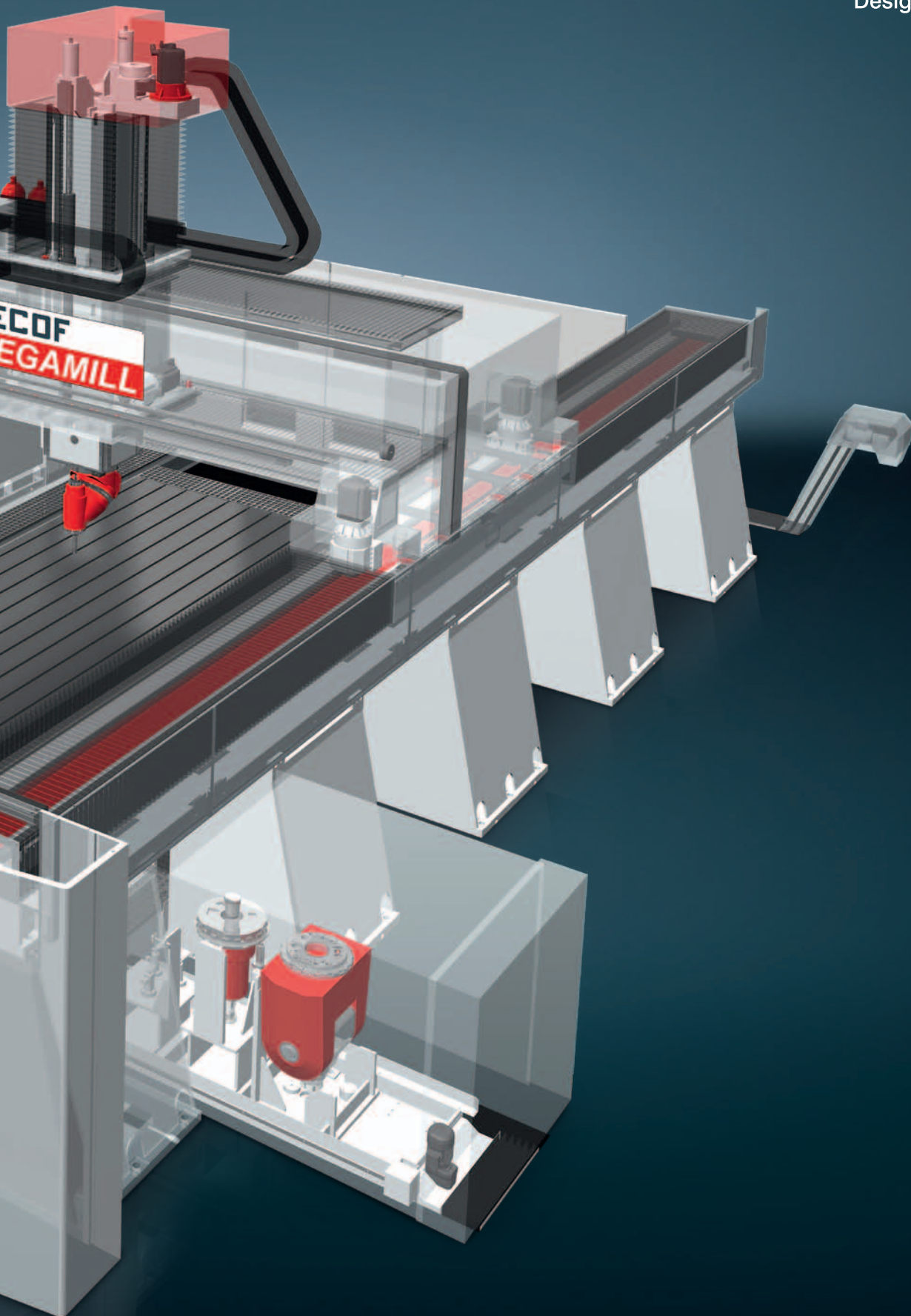
[Ecological]

The result of a constant engagement in technological research and design is that Megamill ensures a significant reduction in energy consumption **up to 20%** while maintaining high processing performance.



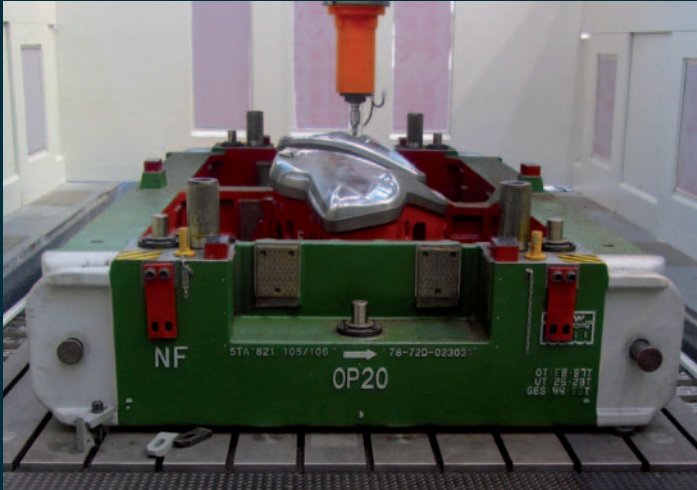
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[Technology]

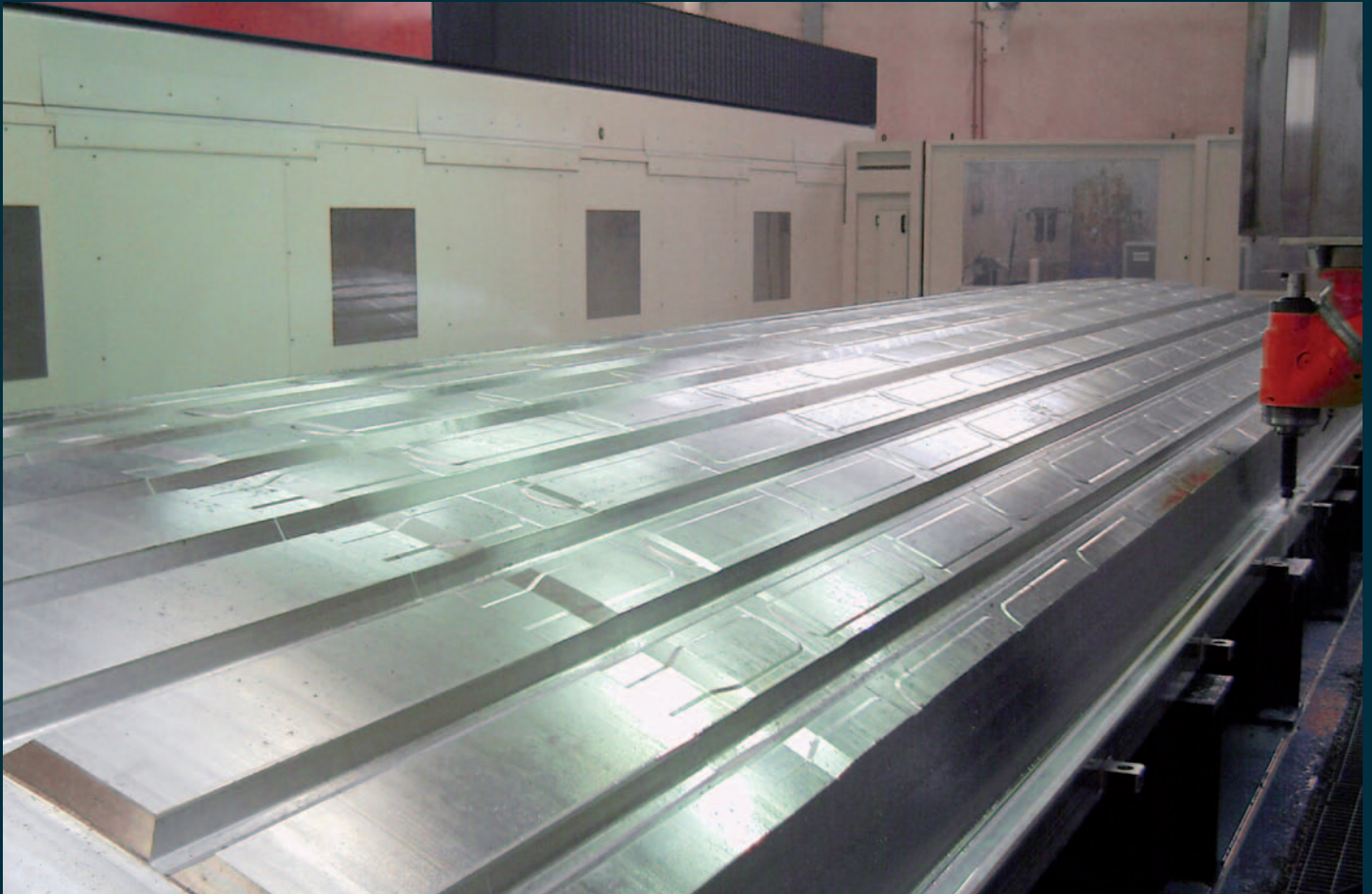
The machine with thermo-symmetric moving crossbeam MEGAMILL ensures the utmost levels of both high-power removal thanks to universal milling heads and the high-speed finishing with fork heads complete with high speed spindle, two requirements both in the automotive industry, with its large molds and dies, and the aerospace industry, with its need to machine large pieces.



Machining of a mould by means of a mechanical milling head



High precision machined component for paper industry



Finishing of an aluminium fuselage for Aerospace

Flexible configuration

The wide range of possible configurations makes Megamill the ideal solution to meet the requirement from different industries, such as aerospace, power generation, high precision general engineering, mold and dies. Each milling center can be provided with several options such as: head and tool changers, measuring probe, guideways pressurization, multiple working areas, tool coolant system around and through the spindle, etc.

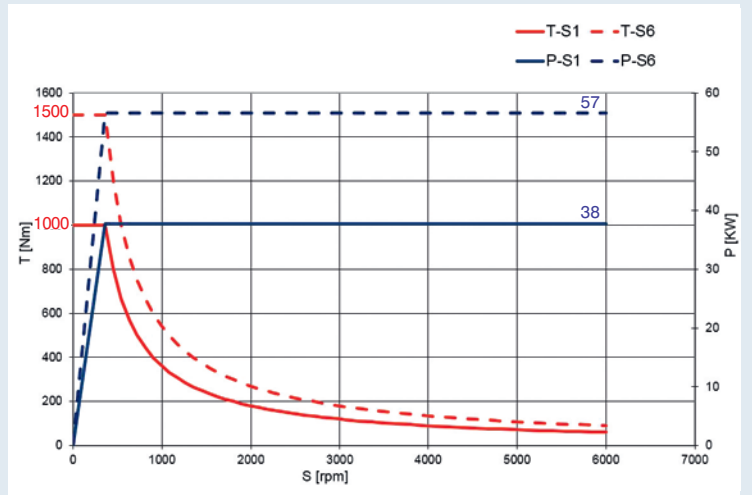


Mechanical machining of a cableway frame

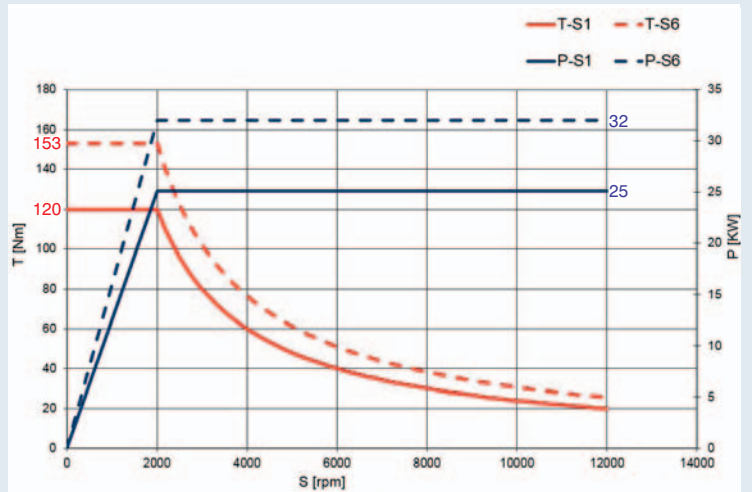
[Milling heads]



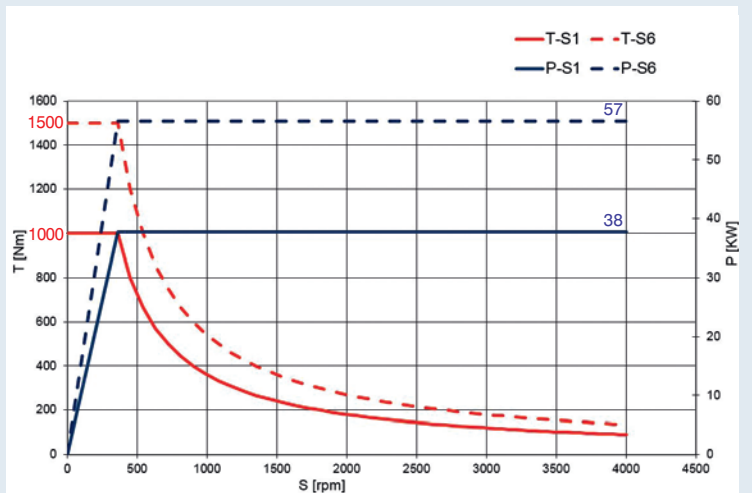
Universal milling head with automatic millesimal positioning



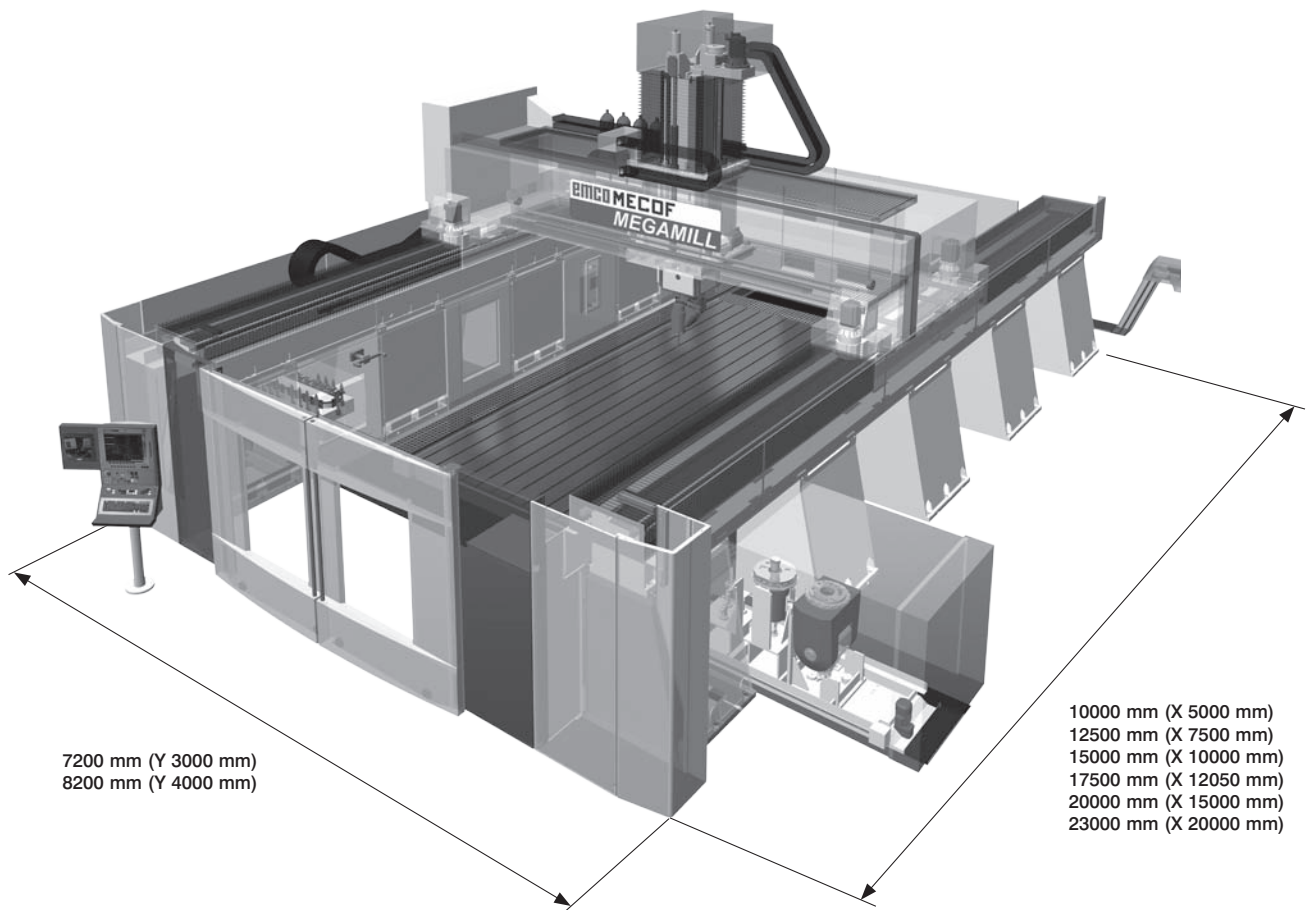
Full 5-axis fork type milling head with high speed spindle



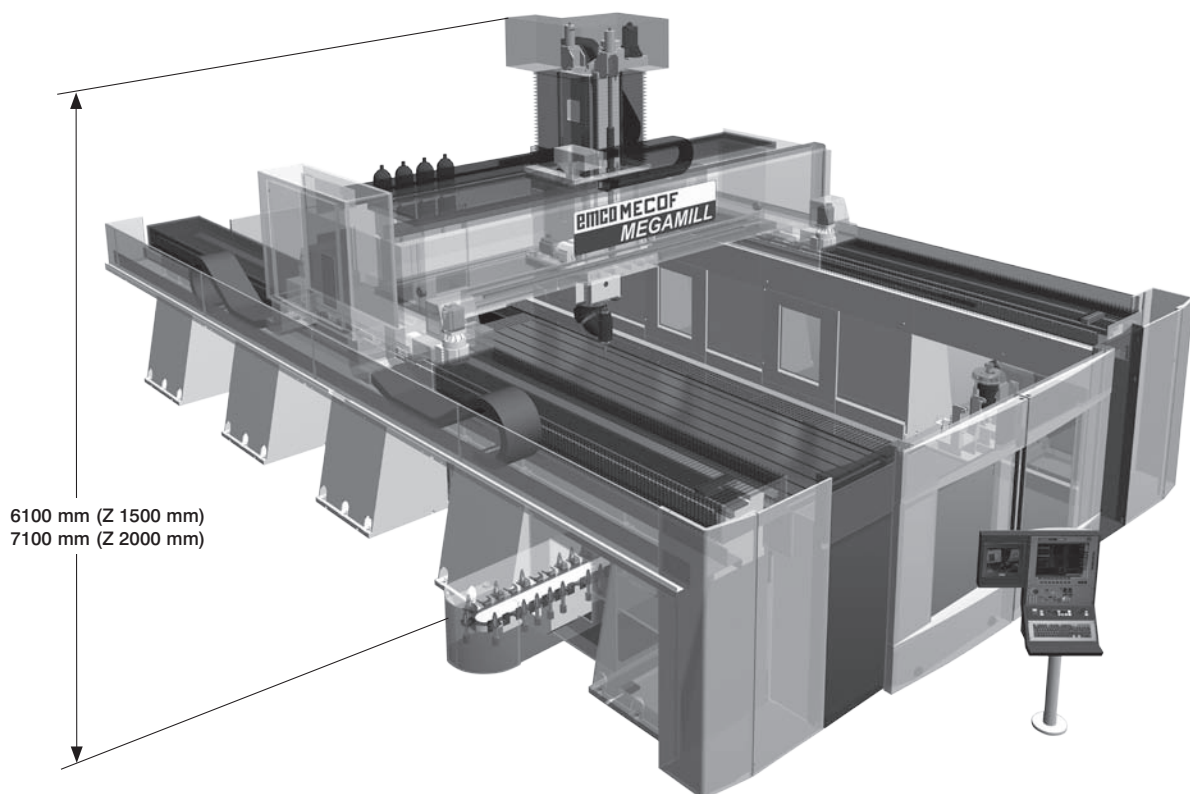
Milling head with extended spindle



Layout: indicative overall dimensions



Layout: indicative overall dimensions



[Technical data]

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| Linear axes | |
|--|--|
| Longitudinal axis travel | 5000 and more (in steps of 2500 mm) |
| Cross axis travel | 4000 – 5000 mm |
| Vertical axis travel | 1500 – 2000 mm |
| Feedrate | 30 m/min |
| RAM | |
| Section | 550 x 550 mm |
| 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 | |
| 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 / 120 pockets |
| Automatic head magazine | 2 / 3 pockets |

| Universal milling head with automatic millesimal positioning | |
|--|-------------------|
| Power S1/S6 | 38 / 57 kW |
| Torque S1/S6 | 1000 / 1500 Nm |
| Rotation speed | 15 ÷ 6000 rpm |
| Tool taper standard | SK50 DIN 69871 |
| Option | HSK-100 DIN 69893 |
| High speed spindle 25 / 36 kW | |
| Power S1/S6 | 25 / 36 kW |
| Torque S1/S6 | 190 / 275 Nm |
| Rotation speed | 10000 rpm |
| Tool taper | HSK 100-A |
| High speed spindle 25 / 32 kW | |
| Power S1/S6 | 25 / 32 kW |
| Torque S1/S6 | 120 / 153 Nm |
| Rotation speed | 12000 rpm |
| Tool taper | HSK 100-A |
| High speed spindle 42 / 55 kW | |
| Power S1/S6 | 42 / 55 kW |
| Torque S1/S6 | 67 / 87.5 Nm |
| Rotation speed | 24000 rpm |
| Standard tool taper | HSK 63-A |
| High speed spindle 41 / 52 kW | |
| Power S1/S6 | 41 / 52 kW |
| Torque S1/S6 | 35.8 / 46 Nm |
| Rotation speed | 26000 rpm |
| Tool taper | HSK 63-A |

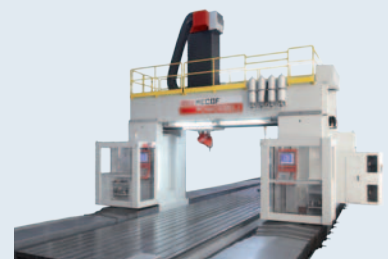
Vertical milling machines



Linearmill



Dynamill



Powermill

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