

emco MECOF

Designed for your profit



High performances and efficiency for your production
ECOMILL

Milling machine with horizontal spindle and moving column

[Ecological]

With a significantly improved and more efficient energy management, compared to the traditional Mecof machines, Ecomill needs **up to 20%** less electricity and **up to 50%** less consumables.

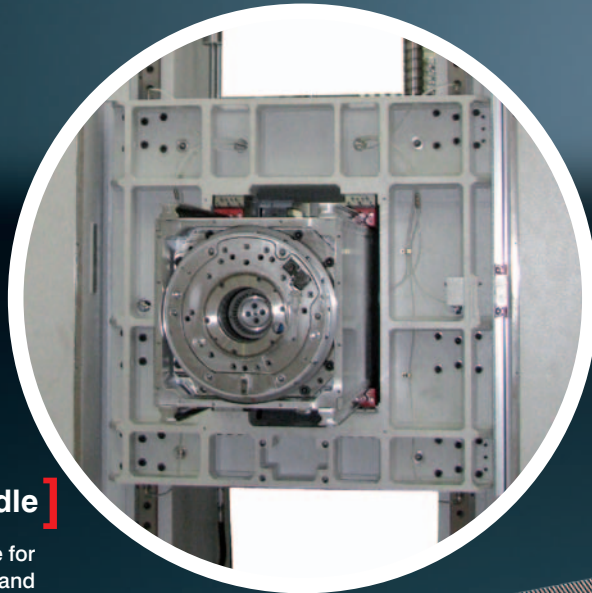


[Economical]

Thanks to the high standardization it offers the **best quality/price ratio**.

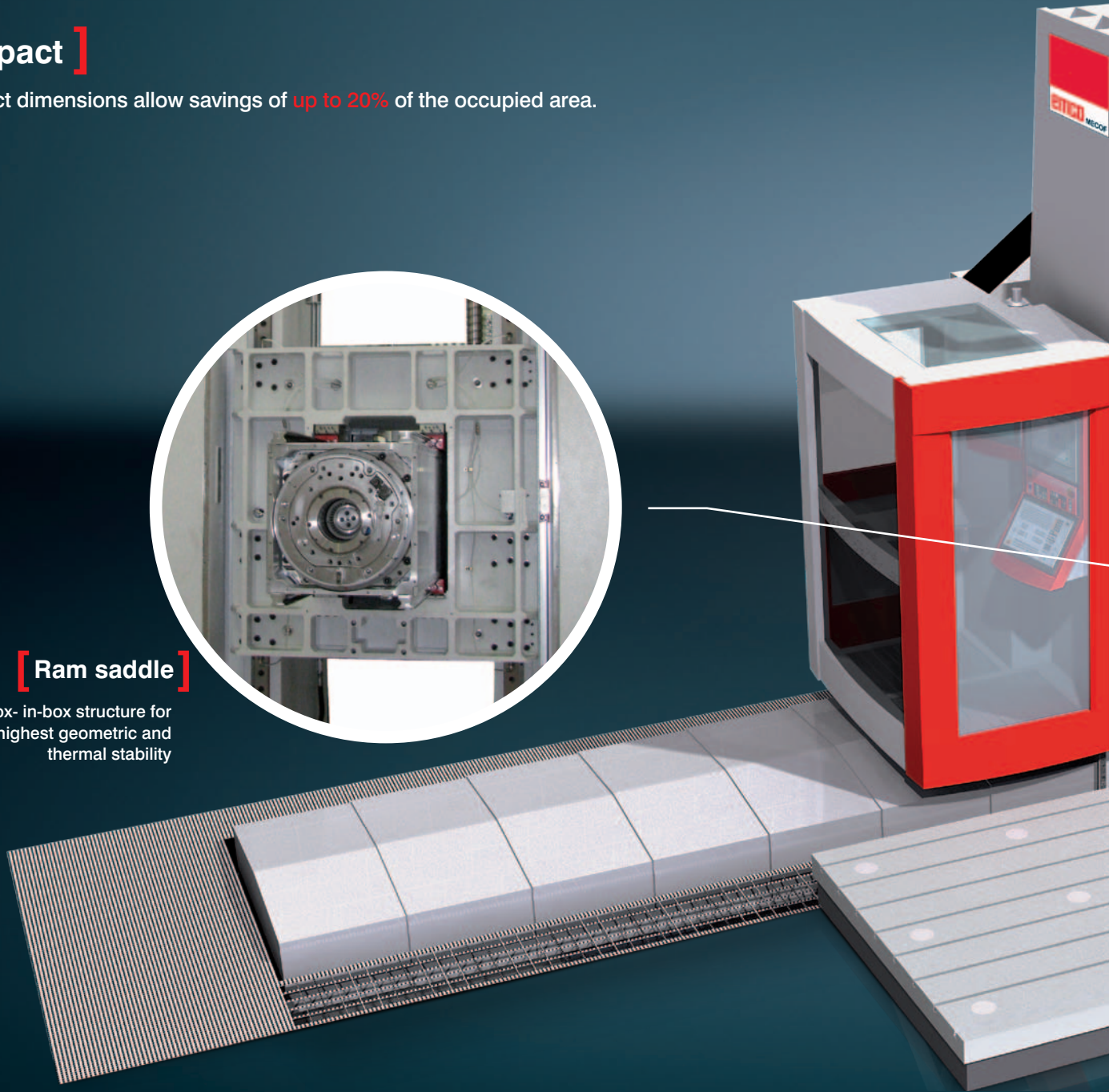
[Compact]

Its compact dimensions allow savings of **up to 20%** of the occupied area.



[Ram saddle]

Box- in-box structure for the highest geometric and thermal stability



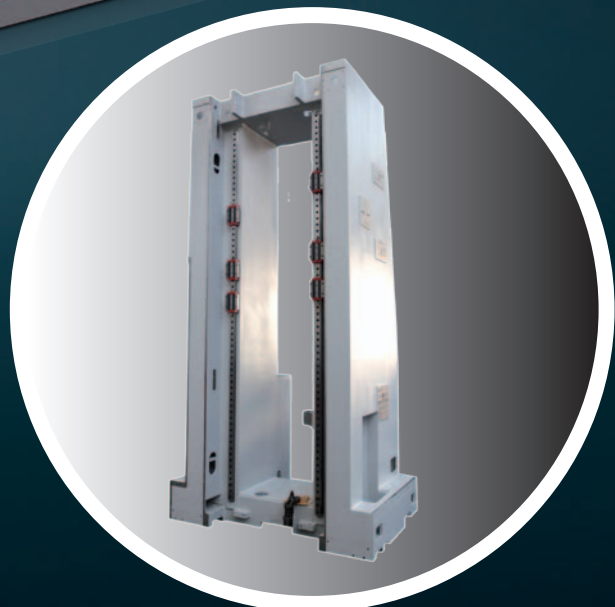
[Rotary platform]

Rotary platform with 360.000 positions managed by the numerical control



[Machine column]

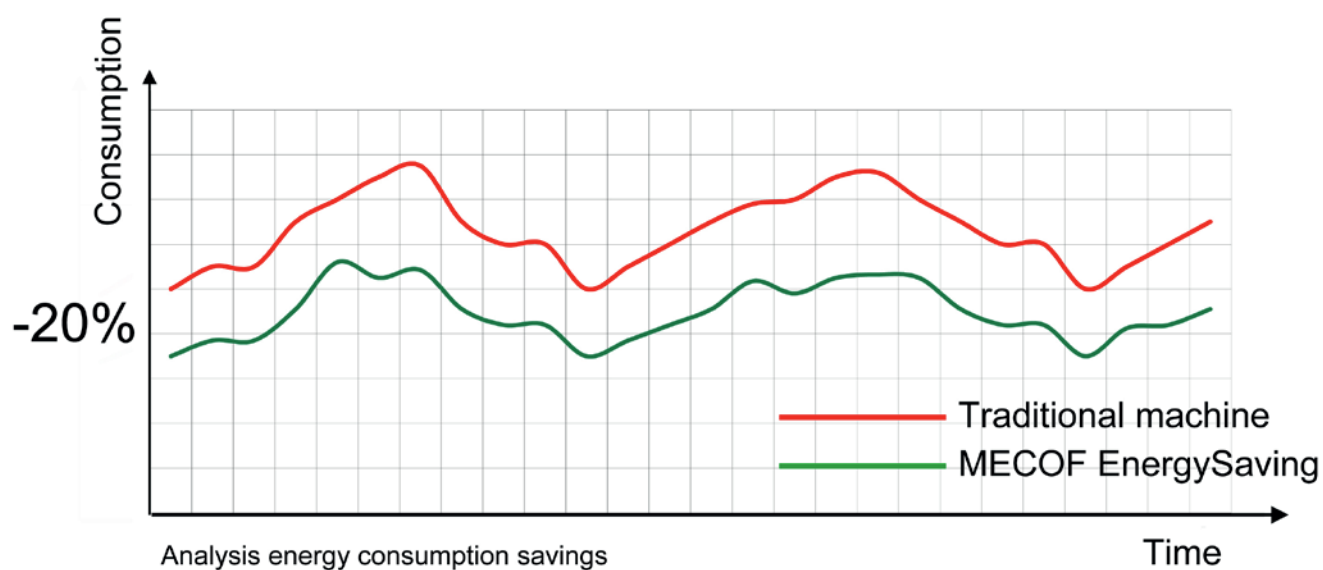
Box-in-box structure in electro-welded steel with heavily ribbed structure, resistant to deflection and torsion as well as vibration insensitive.



[Technology]

A responsible energy consumption management for the various machining processes is essential for Mecof. The target is the energy cost reduction by increasing the efficiency of all the components involved and the optimization of the process during the whole life of the machine.

Power



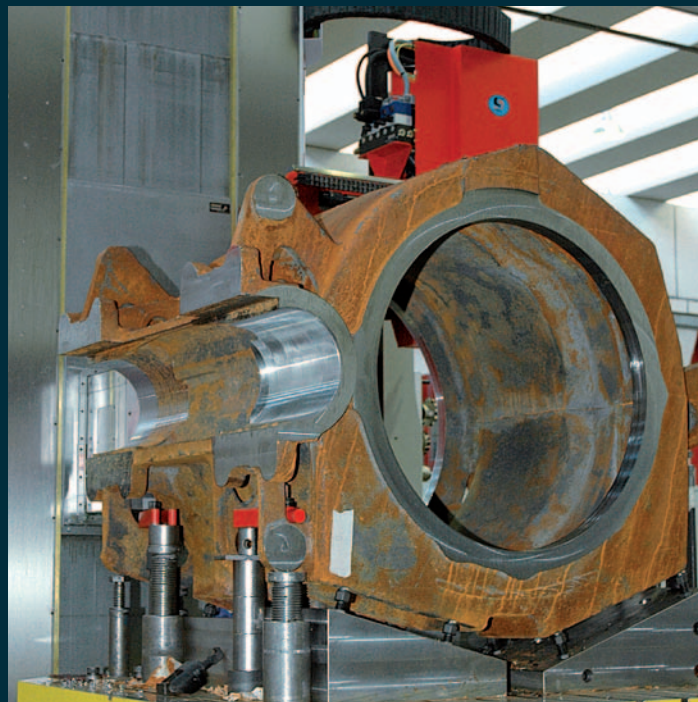
Analysis energy consumption savings

Time

Modern drive elements combined with EnergyOPT Heidenhain for the maximum energy recovery



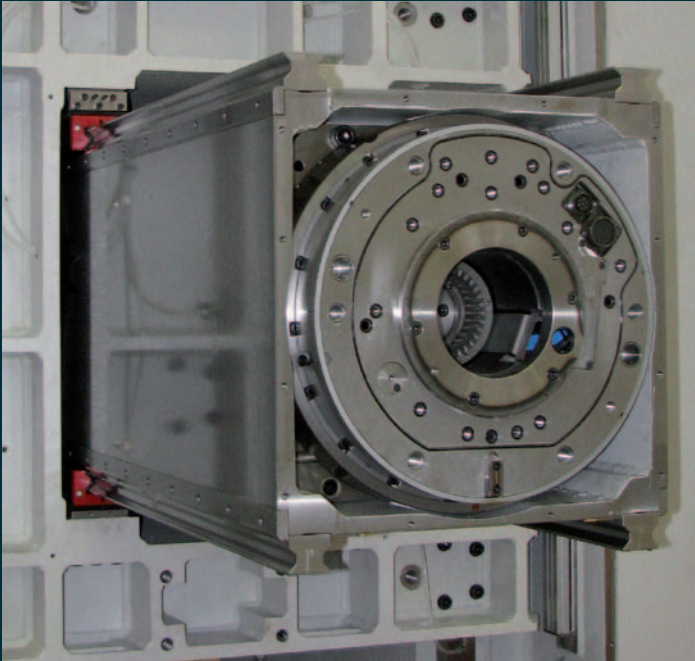
Drilling on a bumper mould by means of universal milling head (Mould & die)



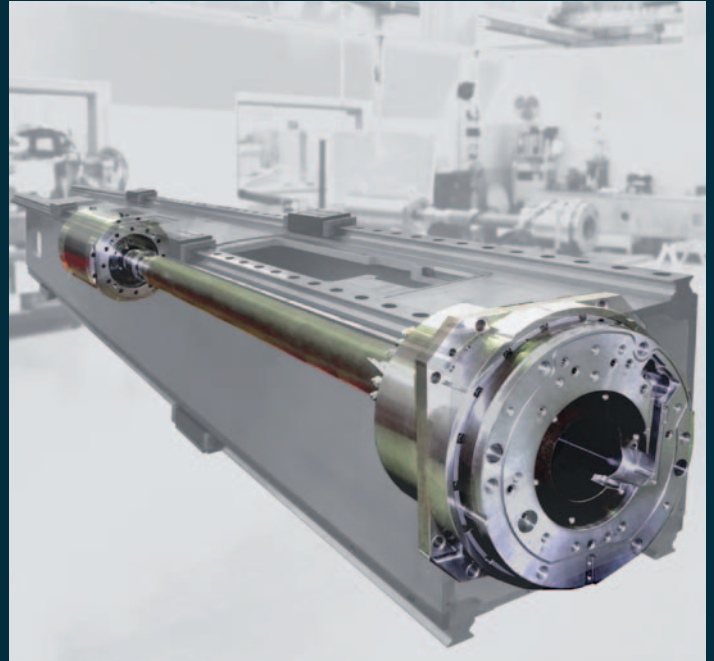
Machining of an electrical motor housing (Precision Engineering)

Efficient and ecological

- Numerical control with dedicated functions for monitoring and management of energy consumption
- High-efficiency motors and drives with functions for the recovery of energy generated during the “braking” phases and automatic compensation of the reactive power
- Timed chip conveyors to limit prolonged operations



Large ram section (520 x 450) with high rigidity:
Box-in-box design with guided ram on each side ensures precision and rigidity.



Direct drive spindle

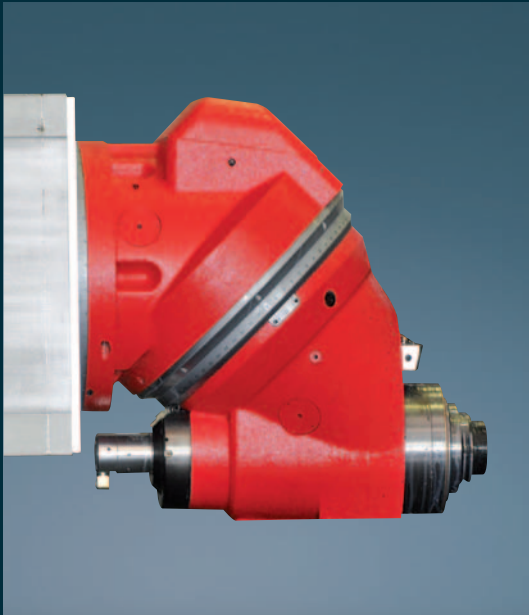


Machining of a large structure for the paper industry
(Precision engineering)

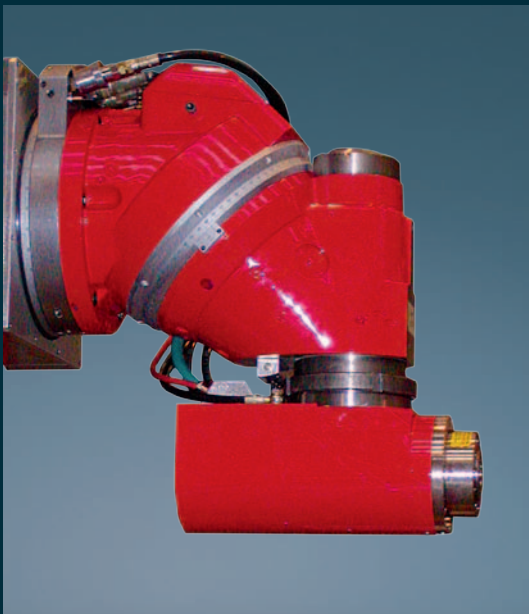
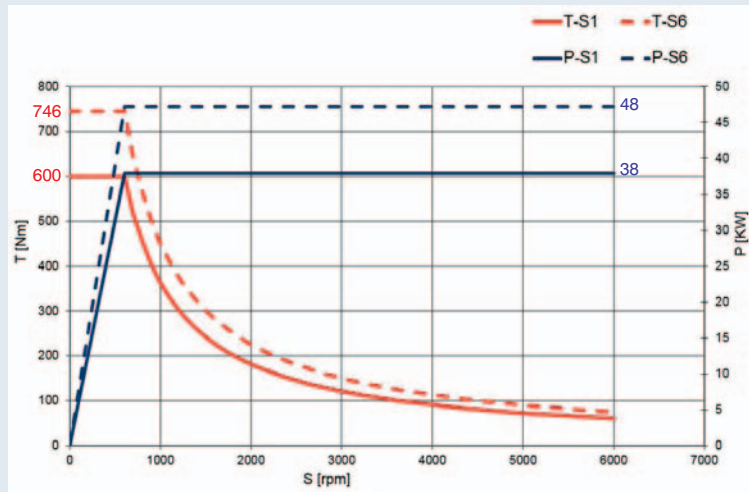


Machining of a food industry component on rotary table
(Precision engineering)

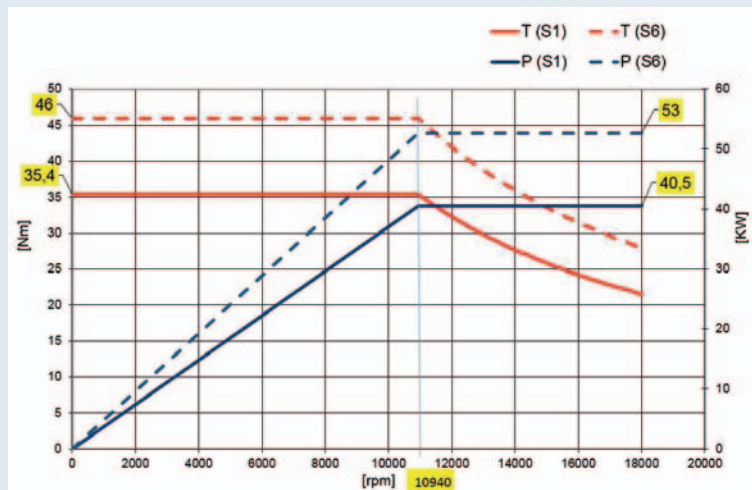
[Available milling heads]



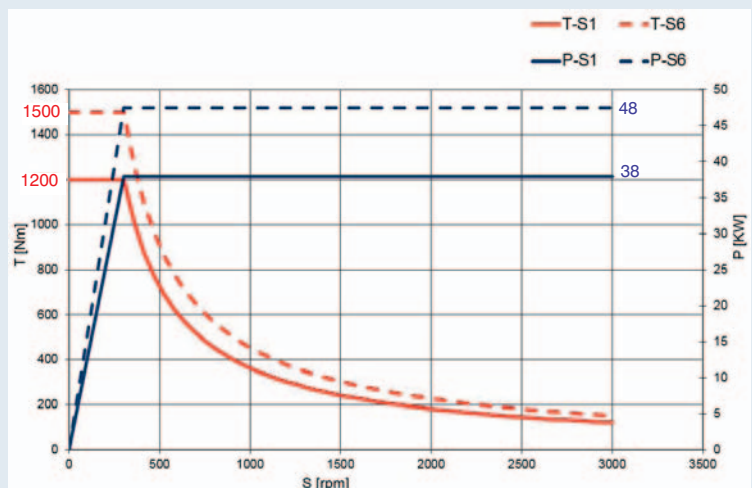
Universal milling head with automatic millesimal positioning with air/oil lubrication and watercooled



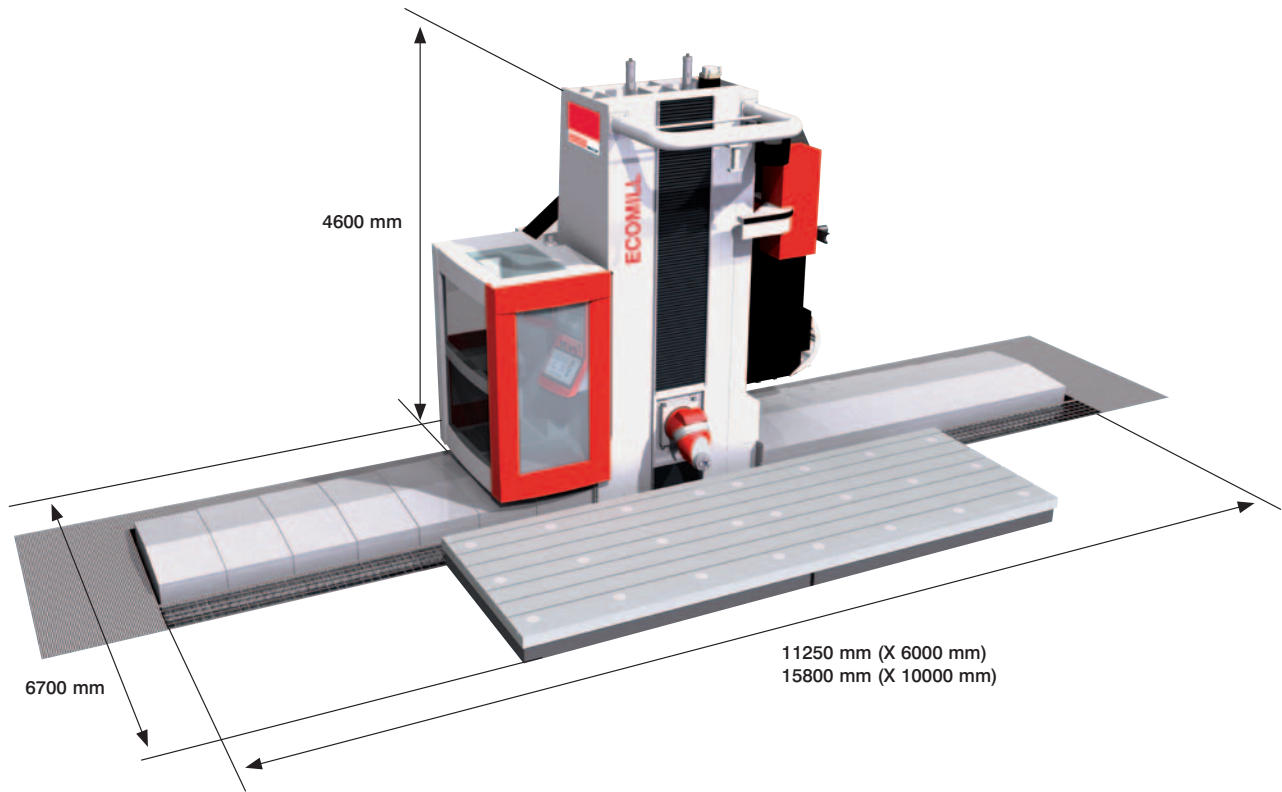
High speed spindle with special support



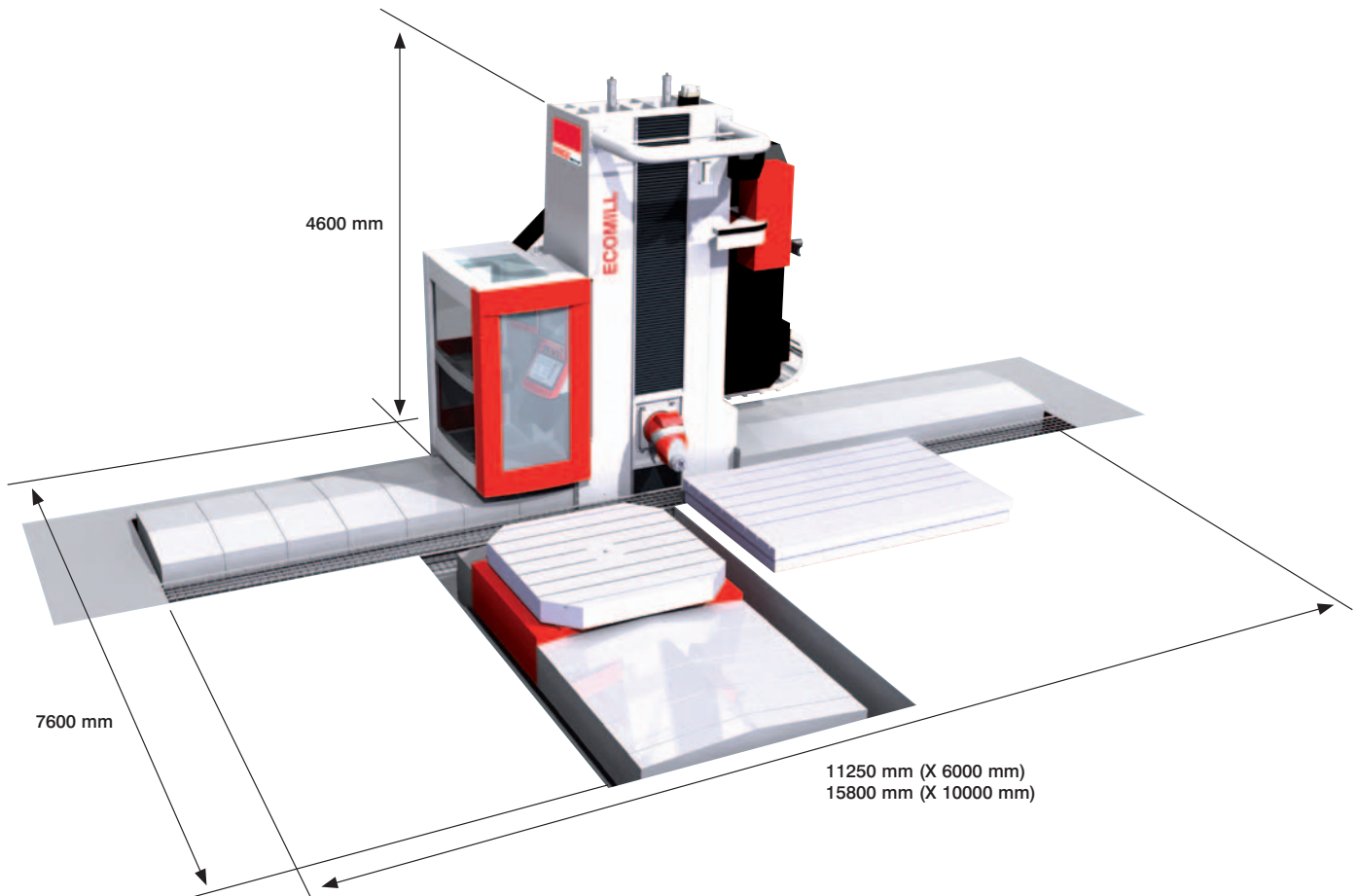
Milling head with offset spindle



Machine layout



Machine layout



[Technical data]

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Linear axes	
X-axis travel (longitudinal)	6000 – 10000 mm
Y-axis travel (cross)	1300 mm
Z-axis travel (vertical)	2500 mm
Axes feed rate	30 m/min
RAM (cross axis)	
Overall dimensions	520 x 450 mm
Continuous platform with automatic millesimal positioning	
Rotation amplitude	± 180°
Spindle	
Max power S1 / S6	60 / 75 kW
Max. torque S1 / S6	600 / 750 Nm
Max. rotation speed	6000 rpm
Standard tool taper	SK 50 DIN 69871
option	HSK-A 100 DIN 69893
Numerical control	
Heidenhain	iTNC 530HSCI
Siemens	840D sl

Tool / workpiece cooling system	
Low pressure	28 l/min / 6 bar
High pressure	20 l/min / 20 bar
Options	
Tool magazine on the column	40 / 60
Measuring probe	
Milling head with horizontal spindle	4000 rpm
Milling head with offset spindle	3000 rpm
High-speed spindle with special support	
Power	40,5 kW
Torque	35,4 Nm
Max. rotation speed	18000 rpm
Tool taper	HSK 63-A DIN69893

Machines with horizontal spindles



Mecmill



Ecomill Plus



Mecmill Plus

08/17 - Technical modifications reserved. Errors and omissions excepted.

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