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# High dynamics for complex parts DYNAMILL

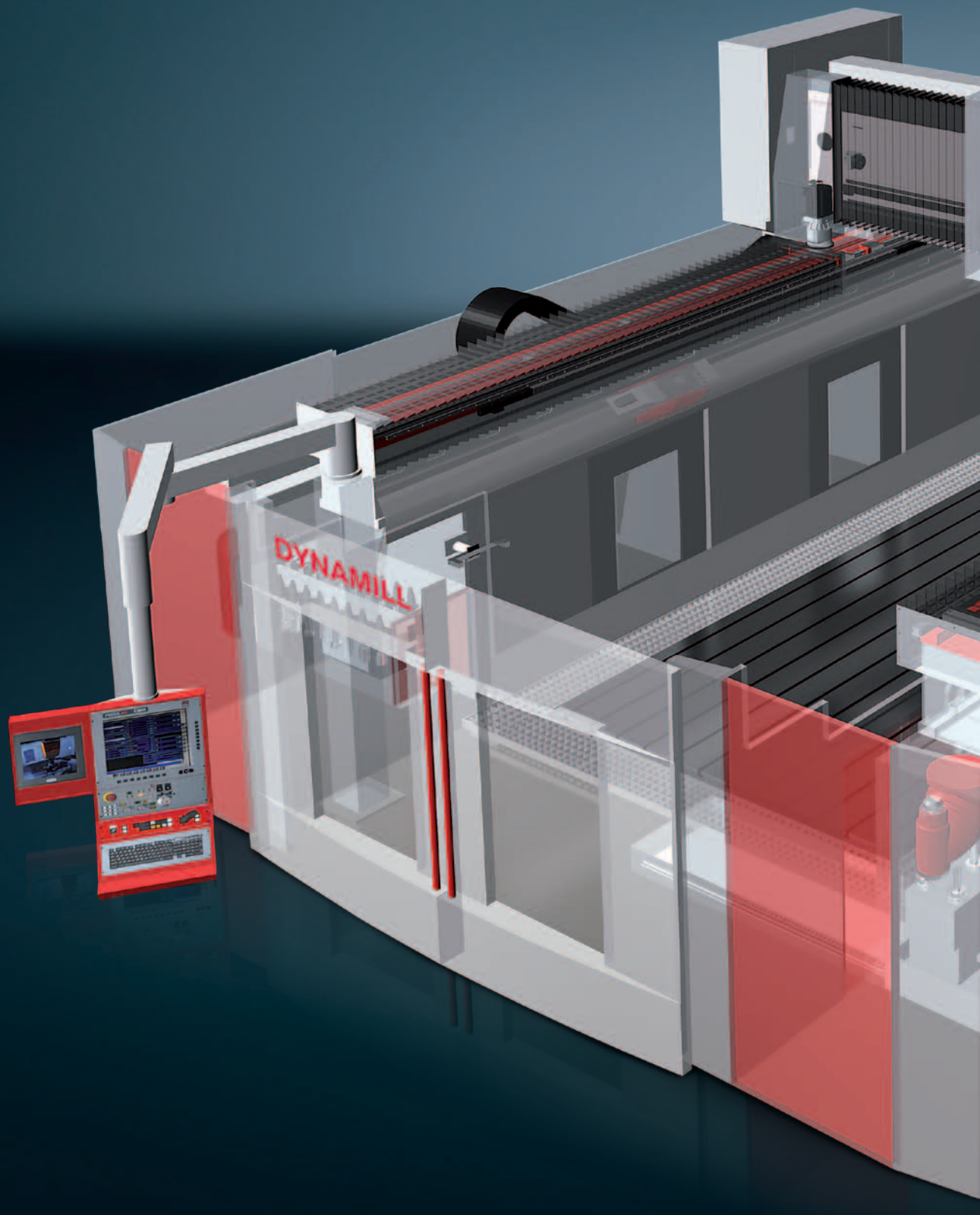
**Gantry milling center for 5-axis machinings of superalloys, steel, aluminium and composite materials**

## [ 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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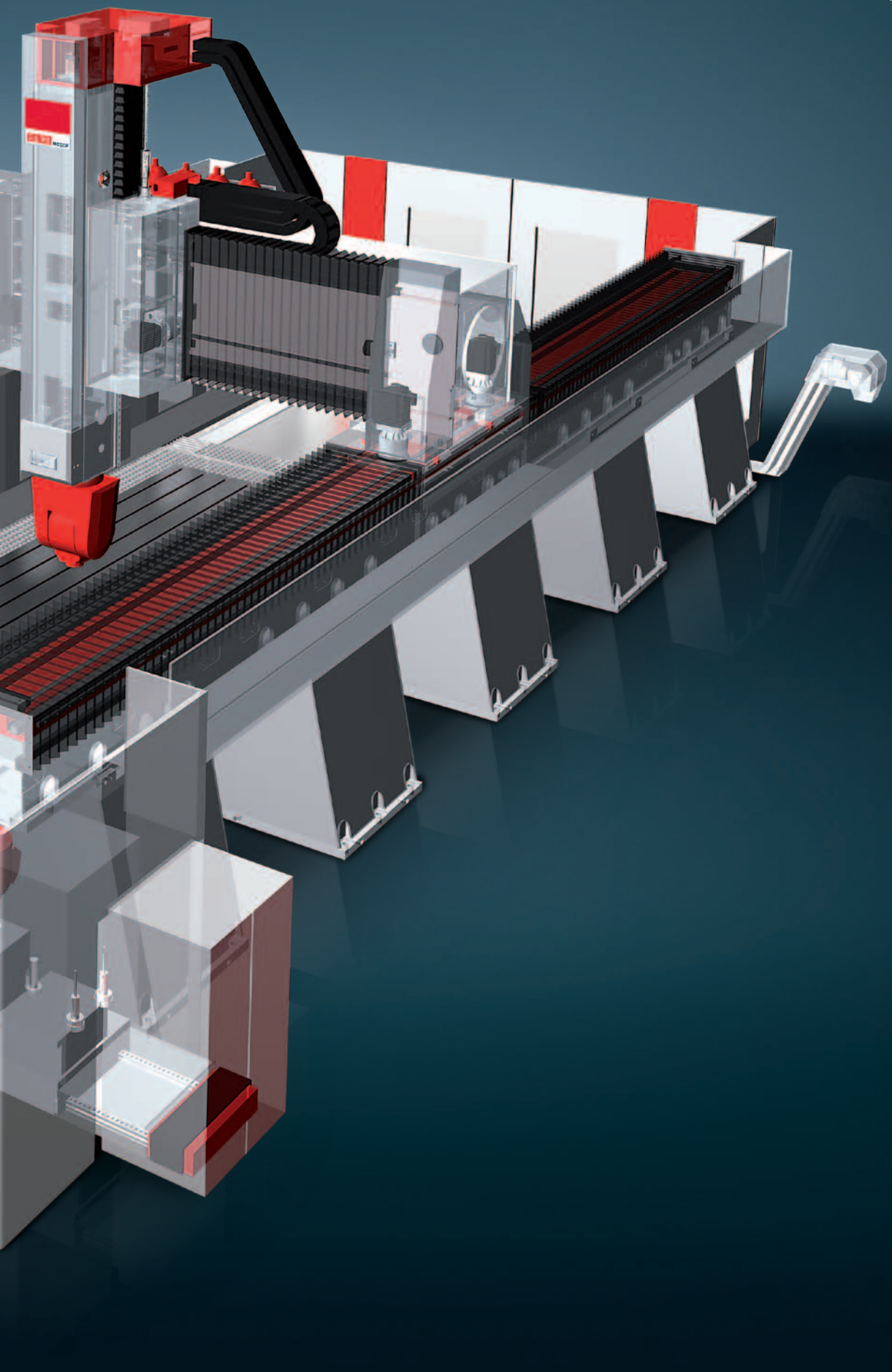
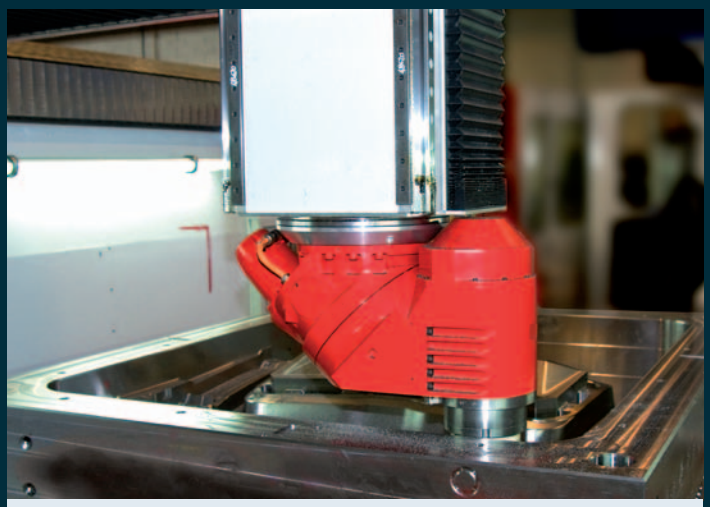
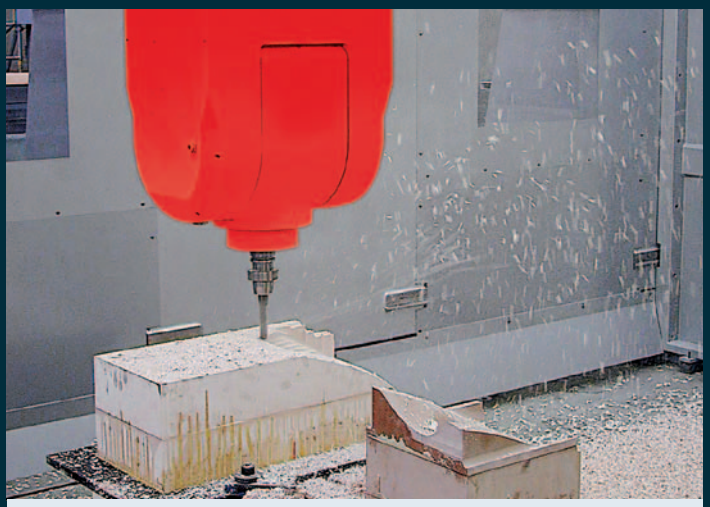


# [Technology]

**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

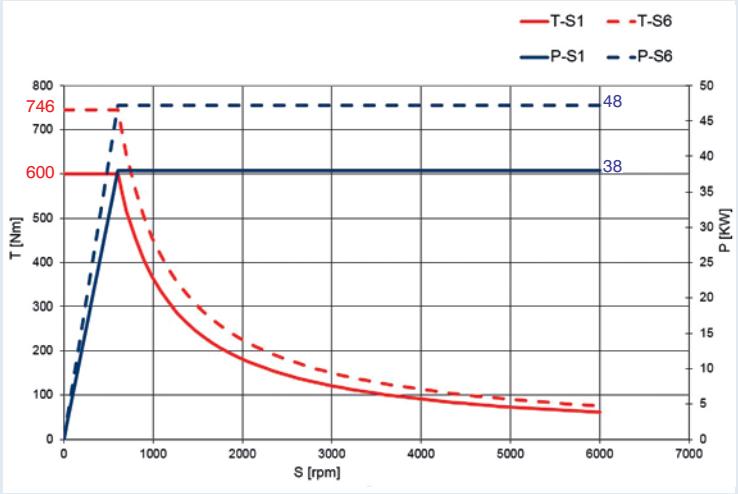
## Efficient and innovative

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.

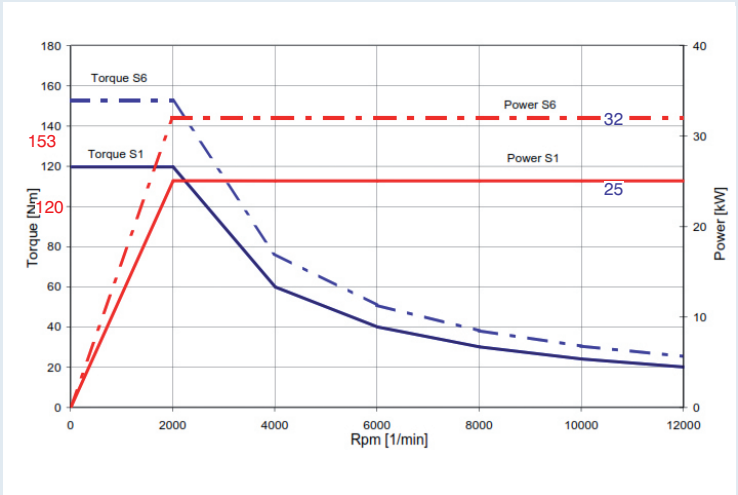
5-axis machining of a titan landing gear for aerospace industry

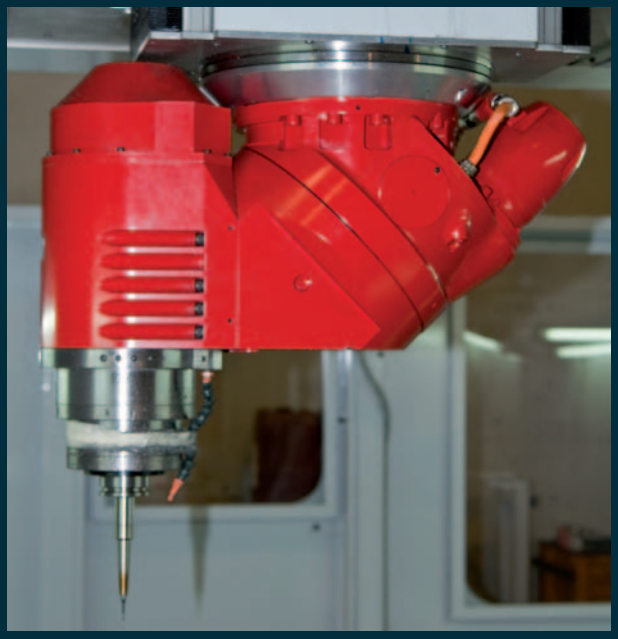
# [Available milling heads]

## Universal milling head with automatic millesimal positioning

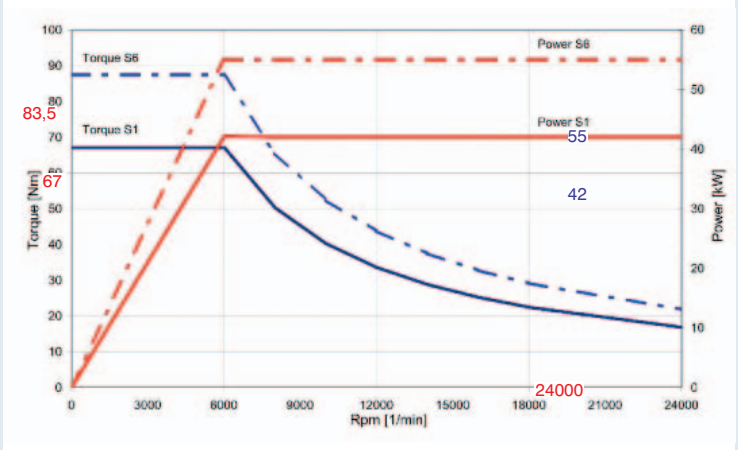



## Full 5-axis fork type milling head with high speed spindle

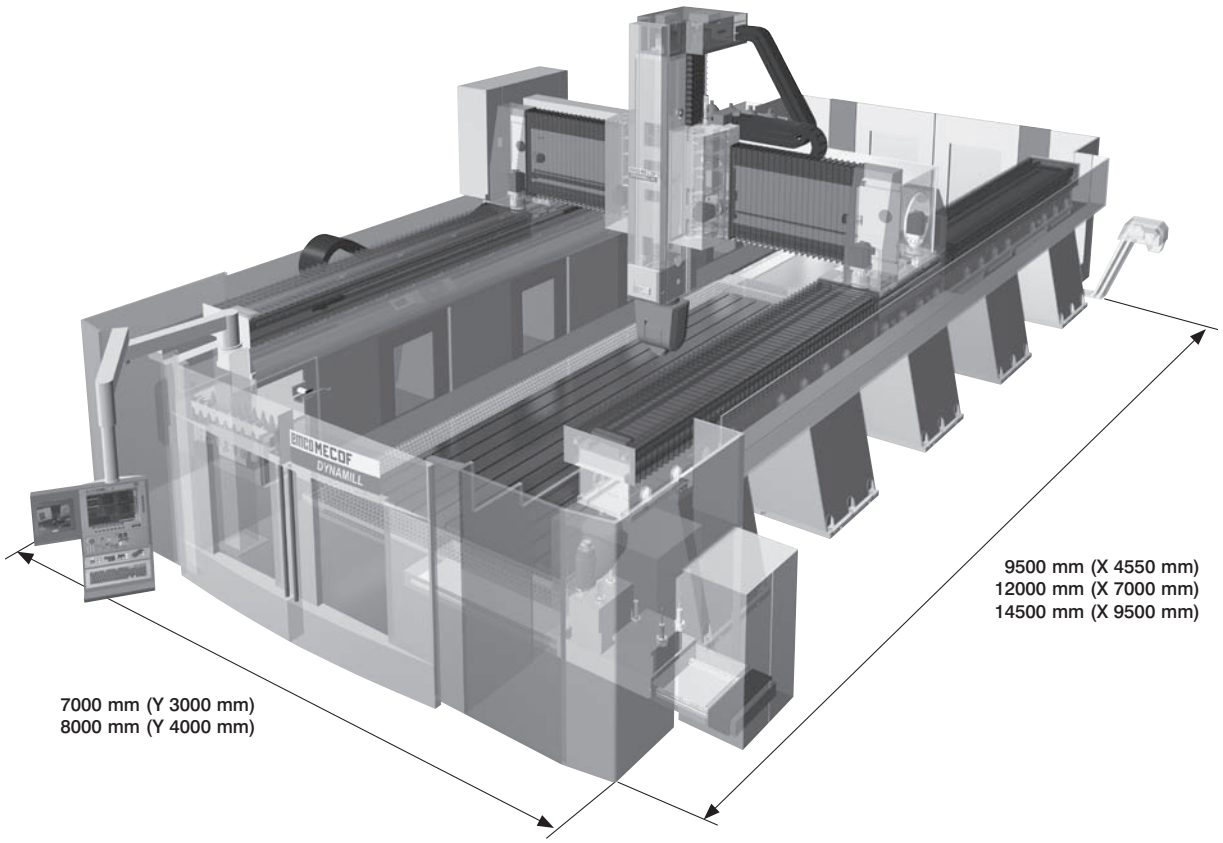


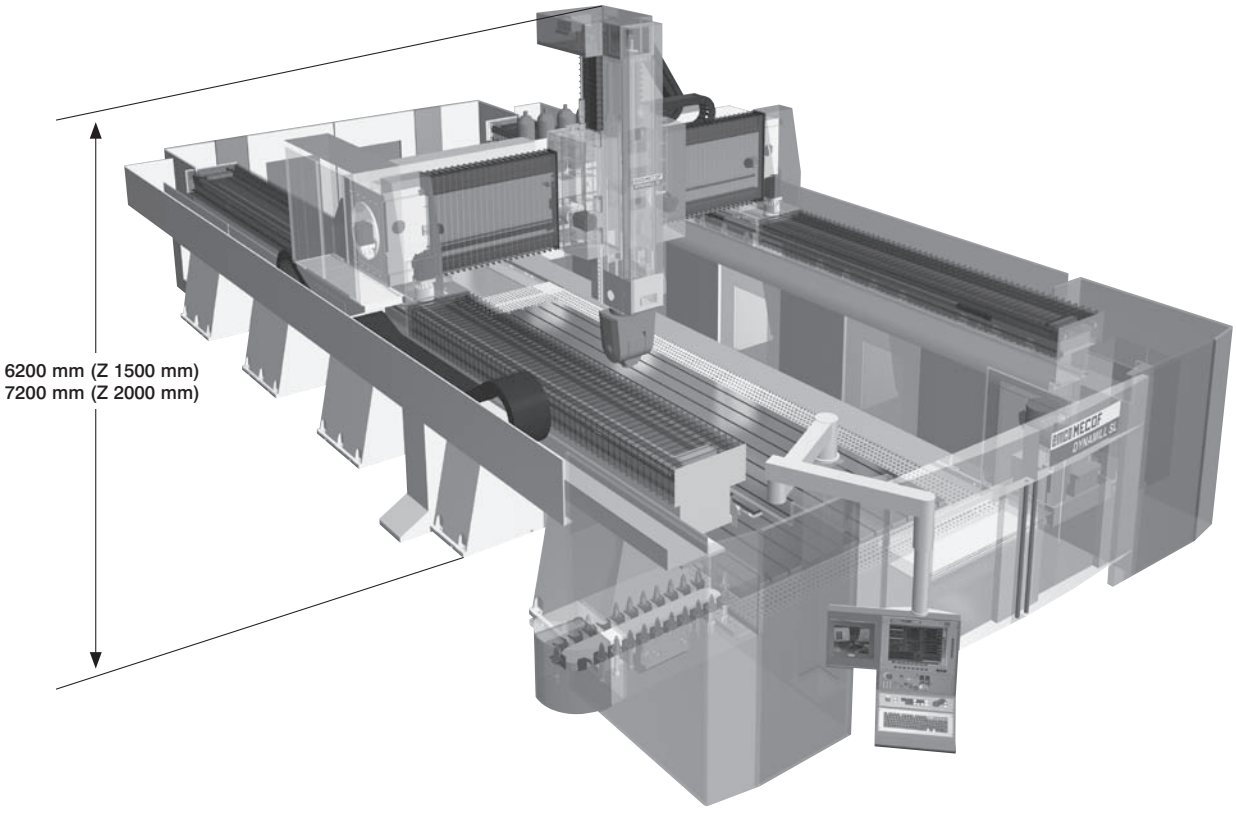
## Universal milling head with high speed spindle



## Layout: indicative overall dimensions




## Layout: indicative overall dimensions



# [Technical data]

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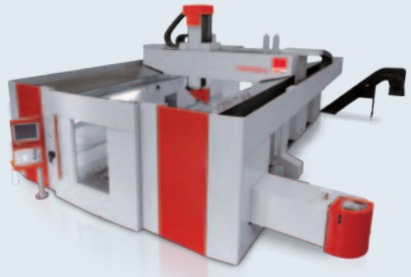
## DYNAMILL

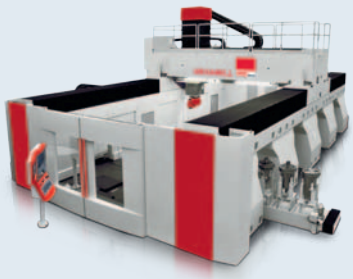
| Linear axes | |
|---|---|
| Longitudinal axis travel | 4550 mm (180") and more (in steps of 2500 mm – 98") |
| Cross axis travel | 3000 – 4000 mm (118 – 158") |
| Vertical axis travel | 1500 – 2000 – 2500 mm (59 – 79 – 98") |
| Feedrate | 40 m/min (1575 ipm) |
| **RAM** | |
| Overall dimensions | 500 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 |

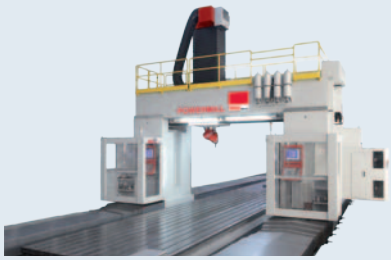
## Vertical milling machines



**Linearmill**



**Megamill**



**Powermill**

10/16 Technical modifications reserved. Errors and omissions excepted.

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