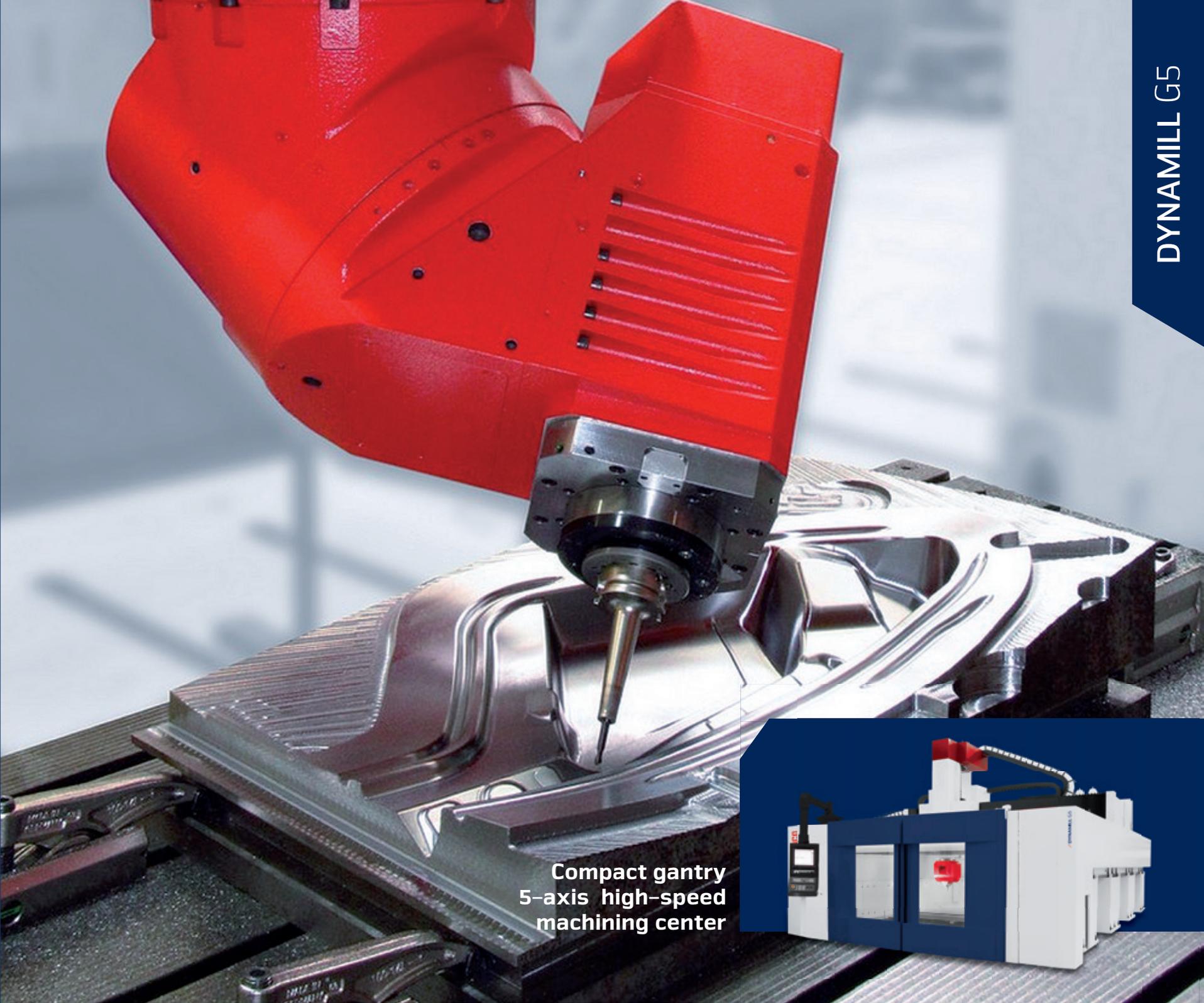
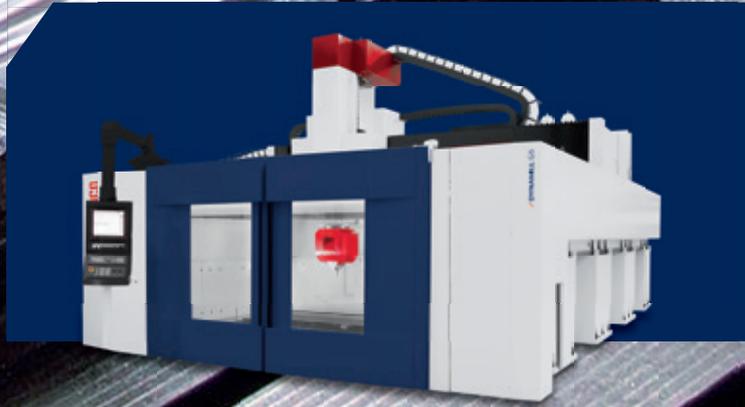


EMCO



DYNAMILL G5

**Compact gantry
5-axis high-speed
machining center**



5-AXIS MACHINING IN ONE SET-UP

The Dynamill G5 is the most suitable solution for 5-axis machining in one single set up. The proven machine impresses with its high pre-processing performance and excellent finishing properties with high surface quality and precision. The portal design ensures excellent rigidity and stability combined with high dynamics.



Z-axis saddle integrated in the machine crossbeam, its structure ensures highest stiffness results and utmost dynamic.

1 COMPACT DESIGN

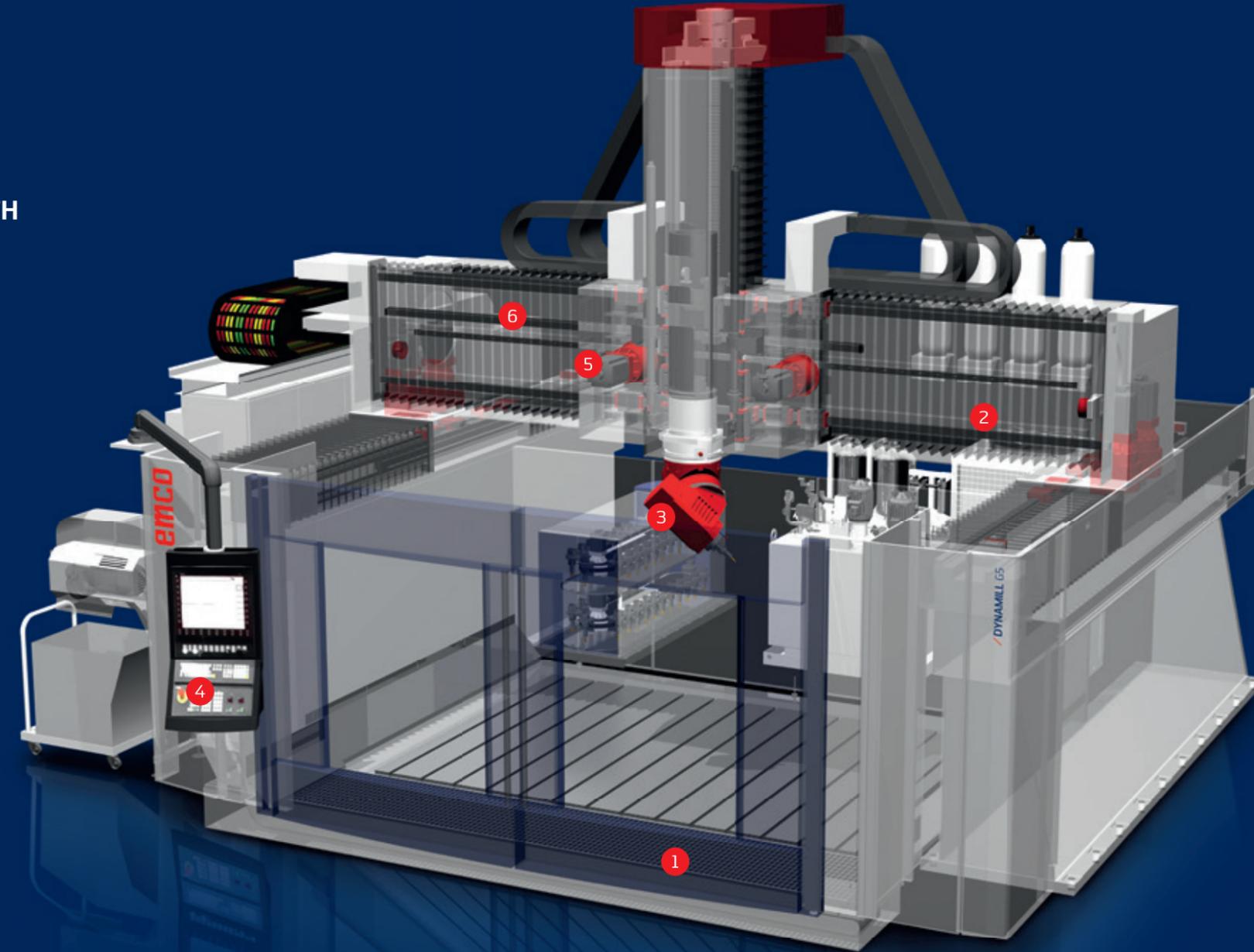
/ Maximum precision with top dynamics thanks to extraordinarily stable gantry design

2 ROLLER RECIRCULATING UNITS AND AXES GUIDEWAYS – BOSCH REXROTH



3 DIRECT DRIVE 5-AXIS MILLING HEADS BY MECOF DESIGN

/ Milling
/ Drilling
/ Tapping
/ Turning, etc.



4 CONTROL

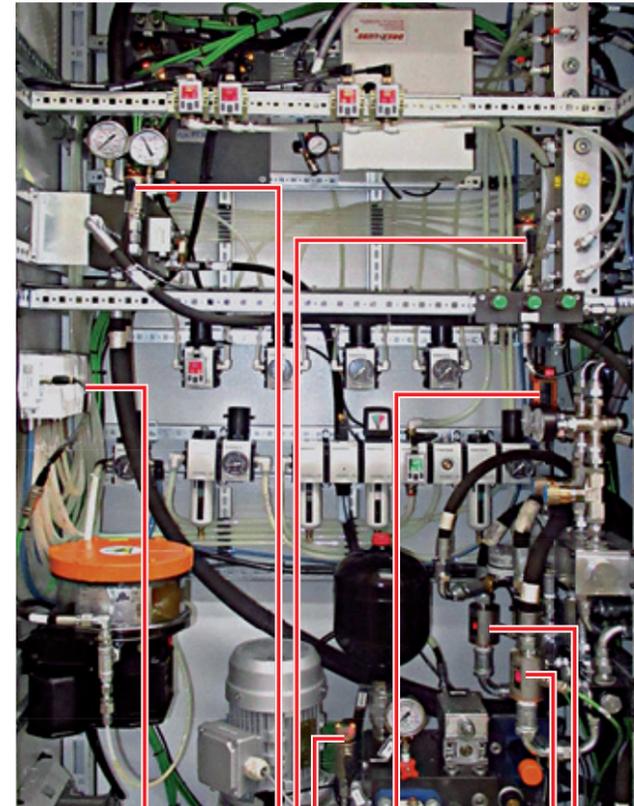
/ Heidenhain TNC 640 HSCI or Sinumerik ONE



5 SIEMENS AXES MOTORS REDEX SERVO-GEARBOXES

6 HEIDENHAIN ENCODERS

TECHNICAL HIGHLIGHTS



SMART DEVICES

IO-Link smart devices are the state-of-the-art technology for a quick and effective diagnosis on the functioning of: high-speed spindle, cooling system on milling head and high-speed spindle, hydraulic unit, air/oil lubrication of milling head and high-speed spindle, pneumatic system, hydraulic system and thermal compensation system.



SUCTION SYSTEM

Dust and fumes can be easily conveyed by Mecof suction system integrated in the fork type milling head.



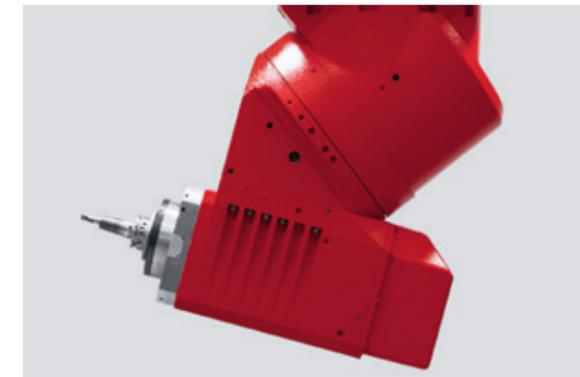
EASILY ACCESSIBLE WORK AREA

Wide sliding doors on the machine front side for easy loading and unloading of large workpieces.



TCB6-E / MECOF DESIGN

Universal milling head with automatic millesimal positioning. A powerful mechanical spindle with high torque for heavy-duty machinings.



TWT / MECOF DESIGN

Direct drive universal milling head with high-speed spindle. New design 15° undercut makes it more agile in machining of complex workpieces.



SP20_SP21 / MECOF DESIGN

Fork type milling head with high-speed spindle and torque motors. 20° undercut.

HIGHLIGHTS

- / High dynamics and accuracy by means of direct drive milling heads
- / Large working area – small installation surface
- / Simple foundation design
- / Machine ready for Industry 4.0
- / 15° undercut on universal milling head with high-speed spindle
- / Direct drive technology on all milling heads with high-speed spindle
- / Automatic tool changer up to 200 tools

TECHNICAL DATA

Linear axes

Longitudinal travel in X	2500 mm	4000 mm	6000 mm	8000 mm
Cross axis travel in Y	3500 mm	2200 mm		
Vertical axis travel in Z	1300 mm	1500 mm		
Feedrate	40 m/min			
Acceleration	4 m/s ²			

Accuracy

	X=2500 mm	Y=3500 mm	Z=1300 mm
Linear accuracy positioning P [µm]	10	12	8
Repeatability accuracy Ps [µm]	5	6	4

Spindle motor

Standard	51 kW 330 Nm (S1)
Option	74 kW 615 Nm (S1)

Workpiece/tool cooling system

External cooling	28 l/min; 6 bar
Internal cooling	20 l/min; 20 bar 40 bar 60 bar
Nebulized air/oil	available
Minimal lubrication system	available

Universal milling head with automatic millesimal positioning

	mechanical spindle	
Power (S1/S6)	38 / 48 kW	38 / 56 kW
Torque (S1 / S6)	300 / 373 Nm	615 / 900 Nm
Speed	6000 rpm	6000 rpm
Tool taper	ISO 50 / HSK 100-A	ISO 50 / HSK 100-A

Universal milling head with automatic millesimal positioning and high-speed spindle TWT Fork type milling head with high-speed spindle SP21

	E61G	E62G	E55
A/C-axes rotation speed	60 rpm	60 rpm	60 rpm
Positioning accuracy	≤ 12"	≤ 12"	≤ 12"
Repeatability accuracy	≤ 8"	≤ 8"	≤ 8"
Power (S1/S6)	50 / 63 kW	50 / 63 kW	42 / 55 kW
Torque (S1 / S6)	100 / 125 Nm	100 / 125 Nm	67 / 87,5 Nm
Speed	20000 rpm	12000 rpm	24000 rpm
Tool taper	HSK 63-A	HSK 100-A	HSK 63-A
Undercut	15° / 20°	15° / 20°	15° / 20°

Fork type milling head with high-speed spindle SP20

	E58G	E68
A/C-axes rotation speed	60 rpm	60 rpm
Positioning accuracy	≤ 12"	≤ 12"
Repeatability accuracy	≤ 8"	≤ 8"
Power (S1/S6)	45 / 58 kW	70 / 85 kW
Torque (S1 / S6)	300 / 372 Nm	160 / 220 Nm
Speed	12000 rpm	15000 rpm
Tool taper	HSK 100-A	HSK 100-A
Undercut	20°	20°

Main options

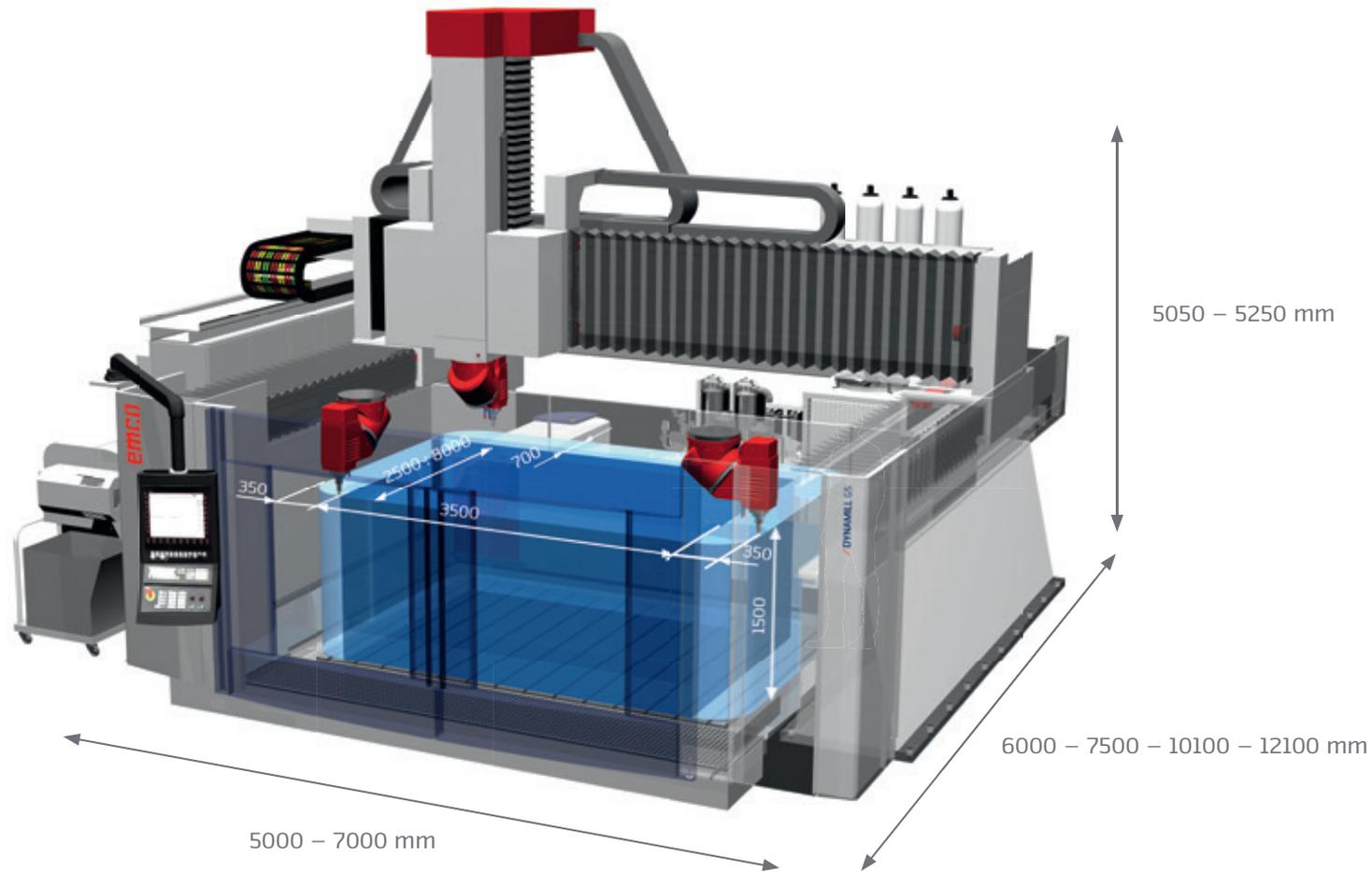
Tool changer	24 / 48 / 64 pockets
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REMOTE ACCESS WITH THE EMCO MECOF VIEWER APP

Through the implementation of smart sensors in the machine cabinets and the development of a dedicated software, Mecof created a mobile phone application that can support machine operators in identifying any problem to the electric and electronic components.



OVERALL DIMENSIONS & WORKING AREA



beyond standard /

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