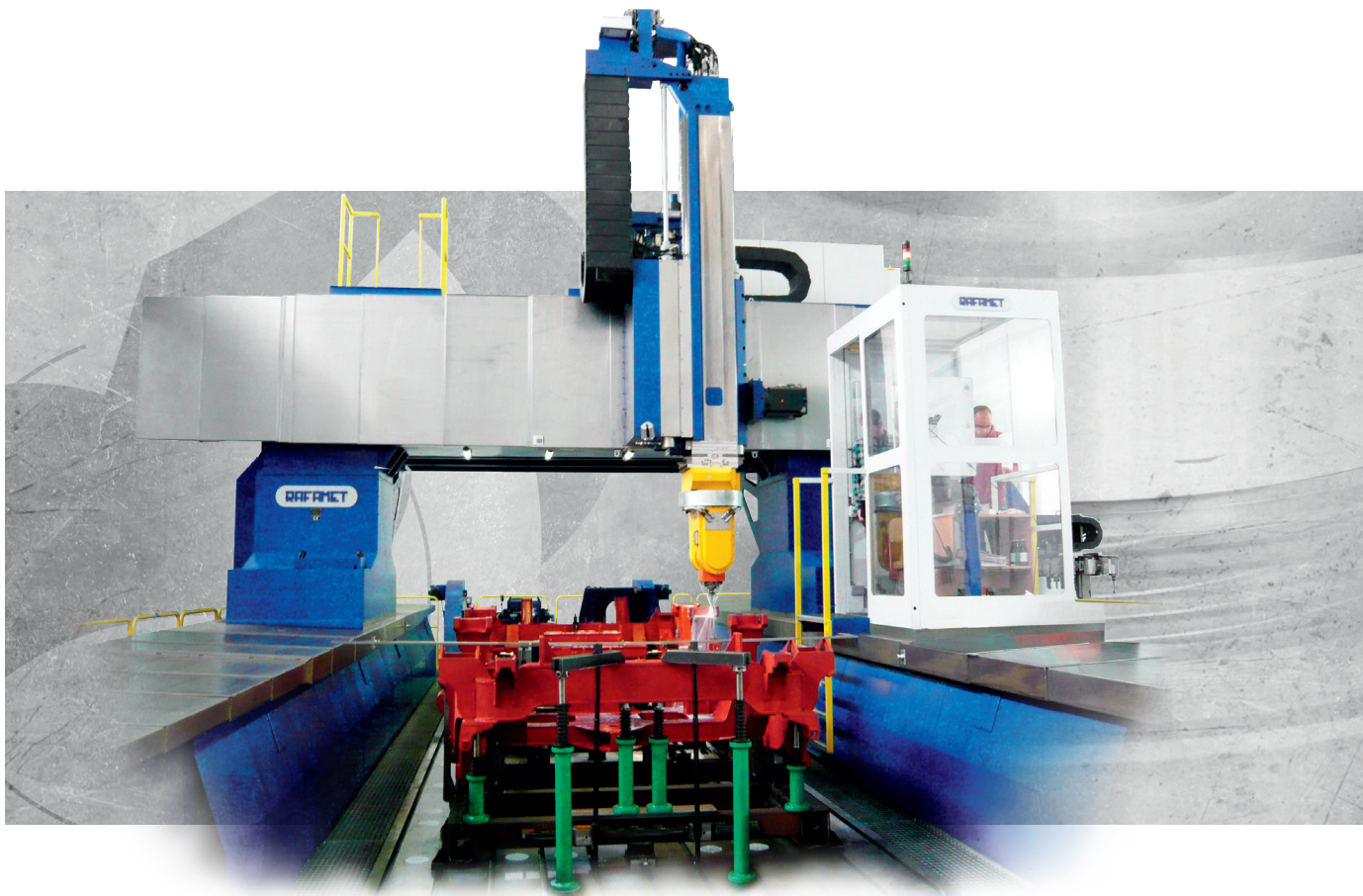


GMC 320/400 CNC

The GMC 320/400 CNC Milling Machines are designed for machining of the complex workpieces, including rolling stock bogie frames, diesel engine blocks and rails. GMC Series machines are capable of 3D milling, drilling, reaming, boring, threading or envelope threading in all machining planes.



Gantry Milling Machines



- Gantry with fixed or movable cross-rail (full NC W axis)
- Two parallel runways with fixed table plate provided with 2-plane geometry adjustment system
- Gantry consisting of cast iron cross-rail and two columns
- Milling railhead consisting of cast iron body and forged steel ram
- All movable assembly units travel along precise rolling or hydrostatic guideways
- High energy electro permanent magnetic system for rails

| TECHNICAL SPECIFICATIONS | | GMC 320/400 CNC | |
|--|-------------------------|-----------------|-------------|
| Table | | | |
| Version | | G-1 | G-2 |
| Surface of table for workpiece clamping (width × length) ⁽¹⁾ | mm | 2500 × 8000 | 3200 × 8000 |
| Length of runway guideways ⁽¹⁾ | mm | 11400 | |
| Max. load of table | ×10 kN / m ² | 8 | |
| Gantry (moveable) | | | |
| Gantry travel (X axis) ⁽¹⁾ | mm | 9000 | |
| Clearance between columns (Y axis) ⁽¹⁾ | mm | 3200 | 4000 |
| Max. distance between spindle face and table (Z axis) ⁽¹⁾ | mm | 2500 | |
| Range of continuously variable feed rates of Gantry (X axis) | mm / min | 3 - 2500 | |
| Gantry rapid travel (X axis) | mm / min | 8000 | |
| Milling railhead | | | |
| Ram travel ⁽¹⁾ | mm | 1500 | |
| Ram cross-section ⁽¹⁾ | mm | 450 × 450 | |
| Machine tool overall dimensions and weight | | | |
| Machine tool overall dimensions: | | | |
| • Length | mm | 19000 | |
| • Width | mm | 10500 | 11450 |
| • Height | mm | 6750 | |
| Approximate weight of machine tool | ×10 kN | 115 | 130 |
| Machine tool accuracies | | | |
| X – axis positioning accuracy M_{ar} (L=1000 mm) | mm | 0.020 | |
| Y – and Z – axis positioning accuracy M_{ar} (L=1000 mm) | mm | 0.012 | |
| X – axis positioning repeatability $RP_{Max.}$ (L=1000 mm) | mm | 0.012 | |
| Y – and Z – axis positioning repeatability $RP_{Max.}$ (L=1000 mm) | mm | 0.008 | |
| ⁽¹⁾ – For standard execution of machine tool. Other parameters to be agreed upon. | | | |

Some of the above data can be altered to meet the Customer requirements.
Above data are subject to change due to product development, without prior notice.