

# 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.



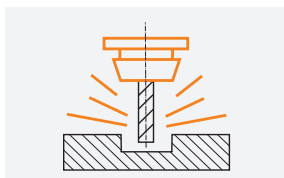
Gantry Milling Machine



- 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

## Available Machining Operations

Milling, drilling, reaming, boring, threading



TECHNICAL SPECIFICATIONS		GMC 320/400 CNC	
<b>Table</b>			
Version		G-1	G-2
Surface of table for workpiece clamping (width × length) <sup>(1)</sup>	mm	2500 × 8000	3200 × 8000
Length of runway guideways <sup>(1)</sup>	mm	11400	
Max. load of table	×10 kN / m <sup>2</sup>	8	
<b>Gantry (moveable)</b>			
Gantry travel (X axis) <sup>(1)</sup>	mm	9000	
Clearance between columns (Y axis) <sup>(1)</sup>	mm	3200	4000
Max. distance between spindle face and table (Z axis) <sup>(1)</sup>	mm	2500	
Range of continuously variable feed rates of Gantry (X axis)	mm / min	3 - 2500	
Gantry rapid travel (X axis)	mm / min	8000	
<b>Milling railhead</b>			
Ram travel <sup>(1)</sup>	mm	1500	
Ram cross-section <sup>(1)</sup>	mm	450 × 450	
<b>Machine tool overall dimensions and weight</b>			
Machine tool overall dimensions:			
• Length	mm	19000	
• Width	mm	10500	11450
• Height	mm	6750	
Approximate weight of machine tool	×10 kN	115	130
<b>Machine tool accuracies</b>			
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	
<sup>(1)</sup> – 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.