

GMC Series

The GMC Series CNC Gantry Milling Machines are designed for machining of the complex workpieces. The GMC Series machines are capable of 3D milling, drilling, reaming, boring, threading or envelope threading in all machining planes. The application of the CNC system provides automatic and productive machining controlled by technological program. The ram spindle and tool head are provided with ISO-50 taper which enables automatic tool clamping and unclamping, as well as cooperating with tool magazine (optional).



Movable gantry / Movable Cross-rail



- 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

STANDARD EQUIPMENT

- Siemens SINUMERIK ONE system
- Threading without compensation holder
- Handwheel
- Spindle with gear
- Tool air and liquid cooling system
- Data transmission USB + Fast Ethernet
- Integrated chip conveyors system

OPTIONAL EQUIPMENT

- Internal spindle cooling
- Tool magazine from up to 60 positions
- Heidenhain measuring scales
- Head magazine
- Tool measuring probe
- Workpiece measuring probe

TECHNICAL SPECIFICATIONS		GMC 320 CNC	GMC 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.