

GMC Series gantry milling machines



BASIC TECHNICAL SPECIFICATIONS

Max. working space of frame:	7,000 × 7,000 mm	
Max. power of main drive:	110 kW	
Max. ram cross-section	600 × 600 mm	
Max. ram travel	4,000 mm	
CNC axes:	Up to five (5)	

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The GMC Series CNC Gantry Milling Machines are designed for machining of the complex workpieces.

The GMC Series machines are capable of the following:

- 3D milling
- Drilling
- Reaming
- Boring
- Threading, envelope threading (helical motion) in all machining planes, i.e. XY, YZ, XZ
- Turning option with rotary table

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 releasing, as well as cooperating with tool magazine (optional).

MAIN FEATURES

- Gantry-type with fixed or movable cross-rail (CNC "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
- Vertical milling railhead consisting of cast iron body and steel ram
- All movable assembly units travel along precise rolling or hydrostatic quideways

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MODEL: Code:		GMC 320 CNC G-1	GMC 400 CNC G-2
Table			
Surface of table for workpiece clamping (width × length) $^{(1)}$	mm	2,500 × 8,000	3,200 × 8,000
Length of runway guideways (1)	mm	11,400	
Maximum load of table	× 10 kN/m ²	8	
Gantry (movable)			
Gantry travel (X axis) (1)	mm	9,000	
Clearance between columns (Y axis) (1)	mm	3,200	4,000
Maximum distance between spindle face and table (Z axis) $^{\scriptscriptstyle (1)}$	mm	2,500	
Range of continuously variable feed rates of Gantry (X axis)	mm/min	1 - 1,500	
Gantry rapid travel (X axis)	mm/min	8,000	
Milling railhead			
Ram travel (1)	mm	1,500	
Ram cross-section (1)	mm	450 × 450	
Machine tool overall dimensions and weight ⁽¹⁾			
Length	mm	19,000	
Width	mm	10,500	11,450
Height	mm	6,750	
Weight	× 10 kN	115	130
Machine tool accuracies			
X - axis positioning accuracy M_{ar} (L = 1,000 mm)	mm	0.020	
Y - and Z-axes positioning accuracy M_{ar} (L = 1,000 mm)	mm	0.012	
X - axis positioning repeatability RP_{max} (L = 1,000 mm)	mm	0.012	
Y - and Z-axes positioning repeatability RP _{max.} (L = 1,000 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 is subject to changes due to product development, without prior notice.

