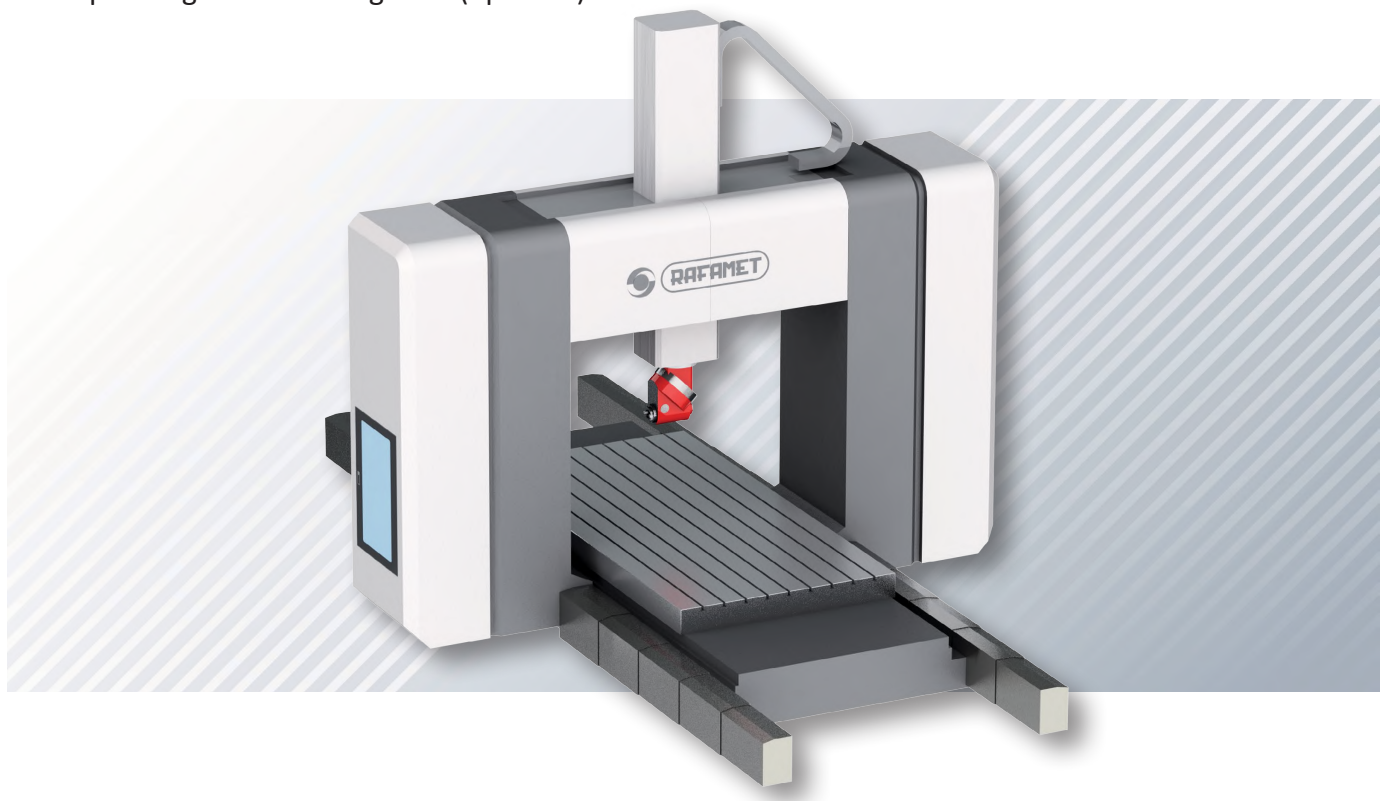code: G-3

GMM Series

The GMM Series – Gantry Milling Machines are designed for versatile, economical and reliable machining of large workpieces. They are capable of performing various operations like milling, drilling, reaming, boring and threading. The application of the CNC system provides automatic and productive machining controlled by technological program. The ram spindle and tool head are provided with SK-50 taper which enables automatic tool clamping and unclamping, as well as cooperating with tool magazine (optional).

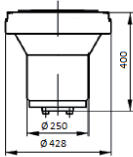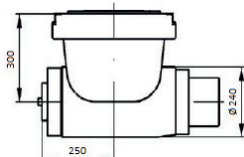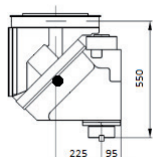**Movable Gantry / Fixed Cross-rail**

- Rigid and compact machine design - cast iron construction

- All movable assembly units travel along precise rolling guideways

- Fixed cross-rail

- Movable gantry

- Four Z-axis guideways

STANDARD EQUIPMENT	OPTIONAL EQUIPMENT
• Siemens SINUMERIK ONE system	• Heidenhain TNC 640
• Threading without compensation holder	• Internal spindle cooling
• Handwheel	• Tool magazine from up to 60 positions
• Spindle with gear 20-4000 rpm	• Heidenhain measuring scales
• Tool air and liquid cooling system	• Head magazine
• Data transmission USB + Fast Ethernet	• Tool measuring probe
• Integrated chip conveyors system	• Workpiece measuring probe

TECHNICAL SPECIFACTIONS		GMM 200 CNC	GMM 250 CNC	GMM 300 CNC	GMM 400 CNC
Table					
Width of table for workpiece clamping	mm	2000	2500	3000	3500
Length of table for workpiece clamping	mm	4000 / 6000[1] / 8000[1] / 10000[1] / 12000[1]			
Max. load of table	×10 kN/m²	4			
Gantry (moveable)					
Gantry travel (X axis)	mm	5000 ÷ 13000[2]			
Clearance between columns (Y axis)	mm	2550	3050	3550	4550
Clearance between cross rail and table (Z axis)	mm	2000			
Milling railhead					
Ram stroke	mm	1500			
Power of motor	kW	37			
Clamping taper		SK 50			
Drive of axis					
Axis X / Y / Z		AC - digital drive			
Continuously variable feed rates (standard execution):					
table (X axis)		1 – 15000			
railhead (Y axis)	mm/min	1 – 15000			
ram (Z axis)		1 – 12000			
Machine tool overall dimensions					
• Length	mm	8800[3]	8800[3]	8800[3]	8800[3]
• Width	mm	8500	9000	9500	10500
• Height	mm	6600			

Milling & drilling heads

Type	Straight	Angular	Universal
Parameters			
	Max. spindle torque: 2000 Nm	Max. spindle torque: 2000 Nm	Max. spindle torque: 1250 Nm
	Max. spindle speed: 4000 / 6000 rpm	Max. spindle speed: 4000 / 6000 rpm	Max. spindle speed: 4000 / 6000 rpm

Tool magazine (optional)		
Type		chain
Number of tools	pcs.	40 / 60
Max. tool diameter (adjacent free space)	mm	125 (210)
Max. tool weight	mm	18 / 20
Max. tool length	mm	350

[1] – Length of table to be agreed upon (every two meters up to 12000 mm).
[2] – Range depending on the table length.
[3] – For 4000 mm length of table. The length of machine tool increases in direct proportion to the length of the table.

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.