

GTF/Q4

The Modular Gantry Solution



FIDIA 

GTF/Q4



It is a modular, high-speed, 5-axis mobile top gantry machine specifically designed for precision machining of industrial products in a variety of materials, ranging from steel and cast iron, to aluminum, plastics, and composite materials.

The crossbar houses the vertical Z ram with a single 5-axis head or, alternatively, with a head-changing platform for accommodating multiple heads.

Linear axis movements are driven by dual transmissions and motors acting on rack and pinion kinematics; double on the X axis (gantry) and single on the Y and Z axes.



Innovative YZ design

The 4 guides located on opposite sides of the ram and tightened to the innovative Y carriage (split) allow to obtain both rigidity and lower torsional effects of the Z axis.

Head-change capability

The modular ram and head system, equipped with a dedicated interface platform, allows automatic head change.

This solution is compatible with different milling solutions both 3 and 5 axes, allowing to combine both high roughing capacities, guaranteed by vertical spindles, and high dynamic performance at 5 axes through FIDIA heads.



Numerical Control

The GTF model is equipped with **FIDIA C20/C20-Vision** high speed multi-processor numerical control, or **SIEMENS** "SINUMERIK ONE".



Project Modularity

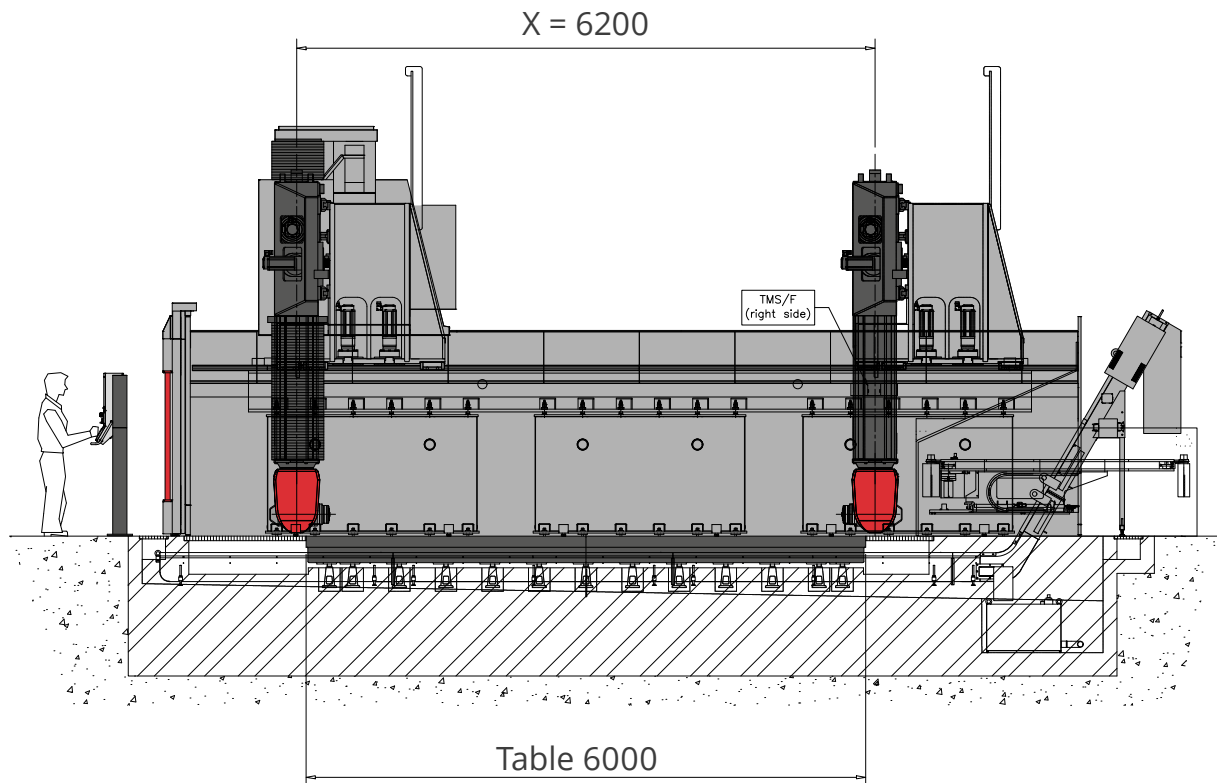


Time Reduction

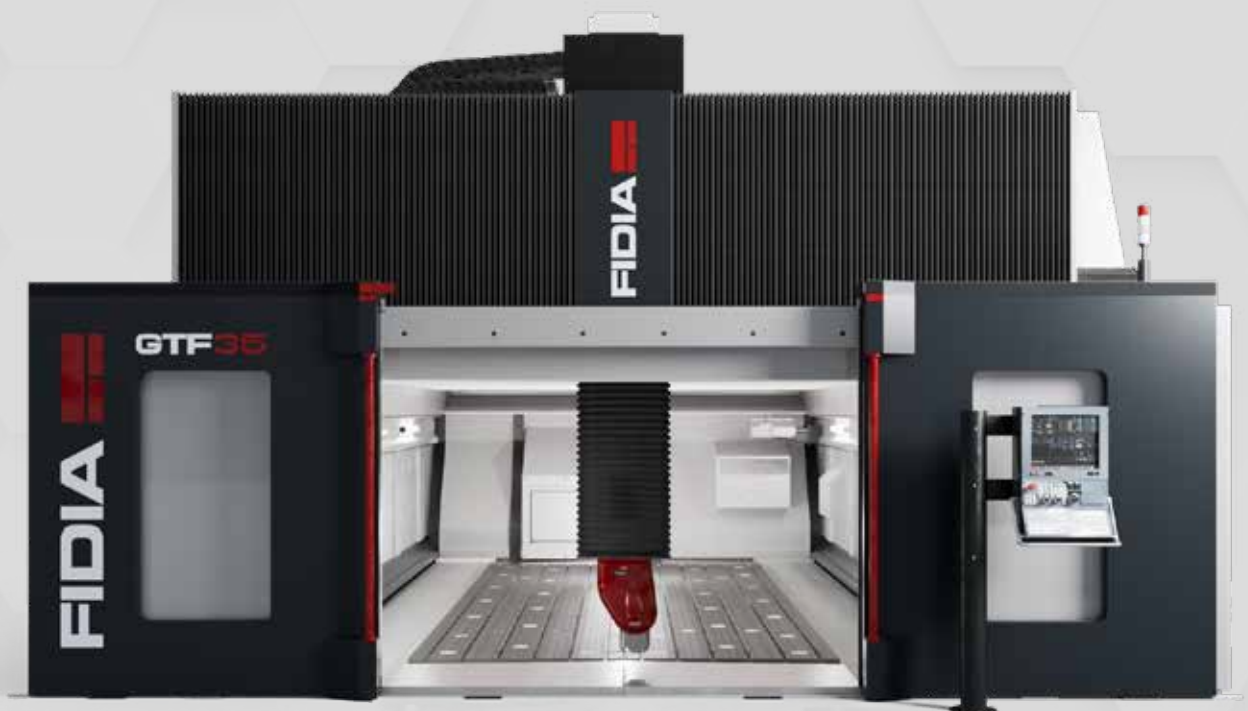
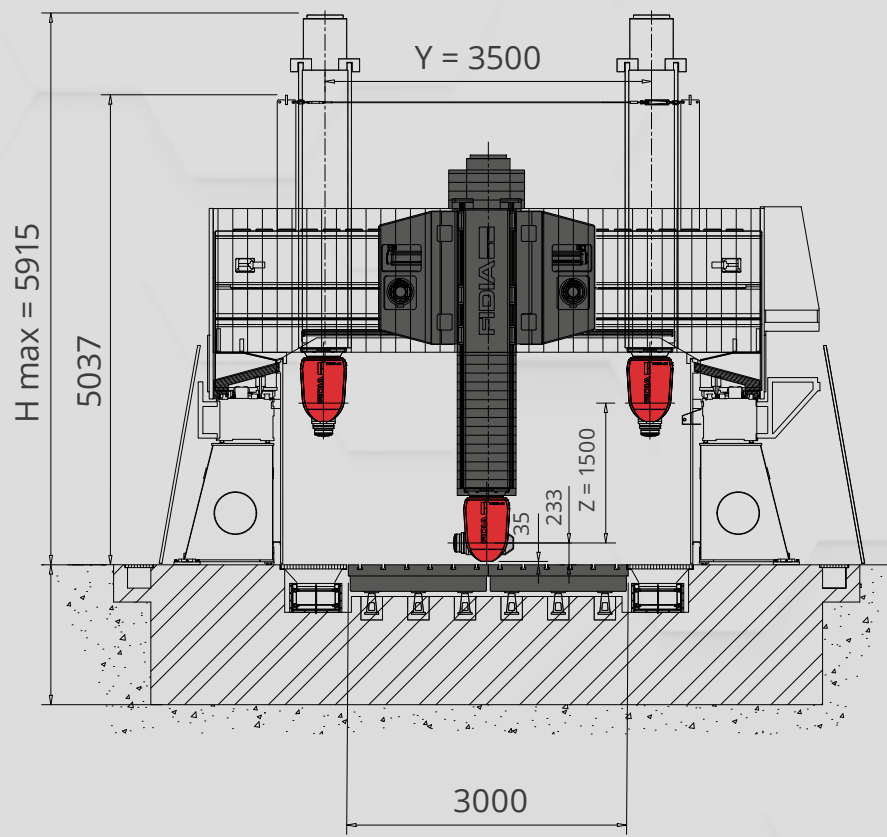


Siemens CNC Available

Layout



Axes (mm)						
X	2.700 (106")	3.600 (142")	4.500 (177")	6.200 (244")	8.200 (323")	...+2.000 (...+79")
Y	2.200 - 2.700 - 3.500 (86,5" - 106" - 138")					
Z	1.000 - 1.200 - 1.500 - 1.800 (39" - 47" - 59" - 71")					
Heads Fidia Tool holder	Speed (1/min)		Power (kW)		Torque (Nm)	
M5A-M5S						
• HSK-A63	24.000		55		88	
• HSK-A100	15.000		65		124	
M5S2						
• HSK-A63	28.000		87		72	
• HSK-A100	16.000		62		148	
M5S3						
• HSK-A80	24.000		92		75	
• HSK-A100	15.000		71		328	
M3A						
• HSK-A100	10.000		56		307	
Axis speed						
Max working feed			X, Y, Z: 30 m/min			
Table						
Load capacity			4000 Kg/m ² (819 lbs/sqft)			

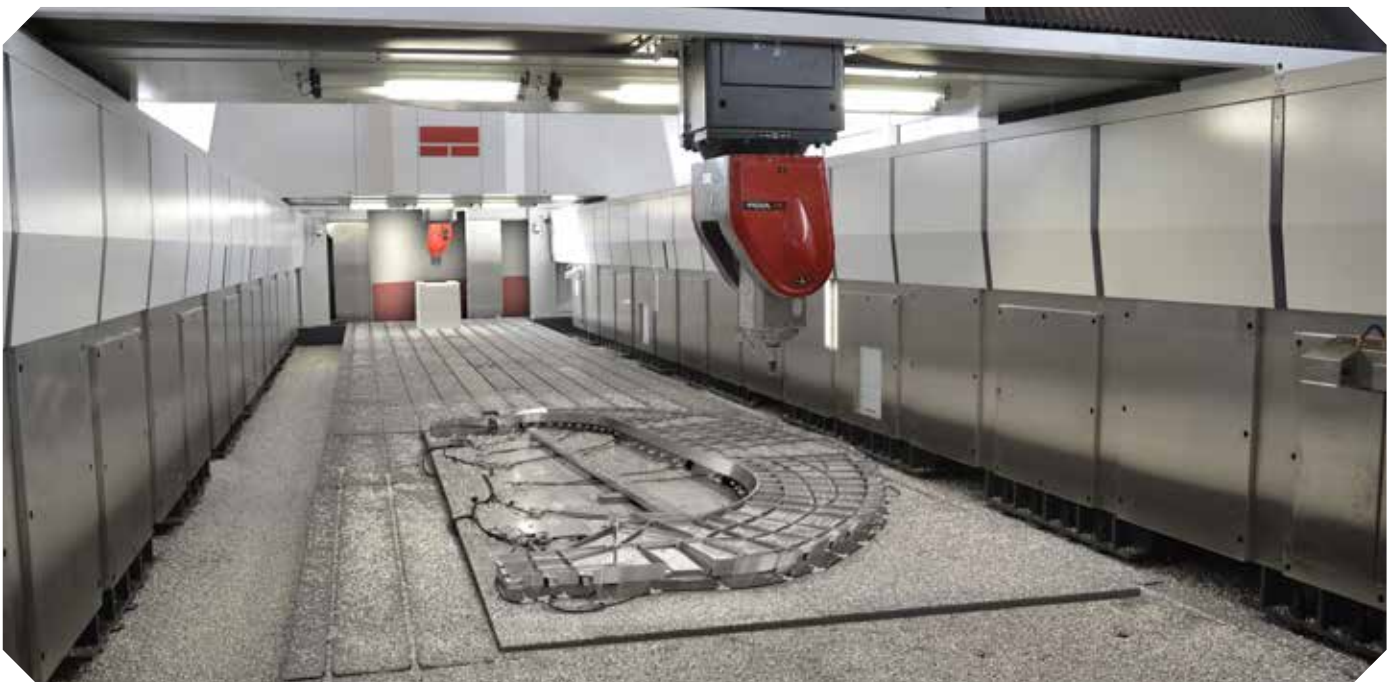


Y2G/Q4



A double traverse further enhances the modular concept of the GTF machine. Two independent heads can work either sharing the same piece or two different pieces using the bulkhead. The X axis stroke can be adapted to all requirements.

Linear axes travel	X	Y	Z
(mm)	from 10.000 (394")	2.200 (87") 3.500 (138") 4.000 (157")	from 1.000 (39") to 2.500 (98")
Axes speed	up to 60 (2362 lpm)		
(m/min)			
Tool magazine	from 2x24 to 2x120		
positions			
Milling head	bi-rotary continuous/indexed		
A axis stroke	-100°/+95°		
C axis stroke	±360°		
Max power (kW)	55		
Max speed (l/min)	28.000		14.000
Toolholder	HSK63A		HSK100A





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