

Titan



Focus On High Speed & 5-axis

Horizontal / Vertical 5-Axis Machining Center



Titan

Application:

Aerospace Industry Titanium Alloy Components | Aircraft Landing Gears

General Machining Heavy-Duty Machining

Horizontal / Vertical 5-Axis Machining Center

Suitable to Machine Titanium, Inconel, Stainless Steel, Special Steel, Alloy Steel, and Other Tough Materials

Z-axis motion is controlled by a traversable crossbeam with vertical up and down movement. The spindle is mounted on the ram (W-axis), and the ram moves up and down depending on the size of the workpiece, and is then clamped into any position. Therefore the spindle (Z-axis) movement is in the same direction as the machine crossbeam movement and precision machining quality is ensured along the whole of the Z-axis travel whether the cutting tool is close or far from the worktable. Additionally, the vertical and horizontal double-frame structure design increases rigidity, reduces vibrations, and provides machining stability.

W-Axis

The W-axis design uses a **300mm moving travel hydraulic clamping system** for high-rigidity cutting.

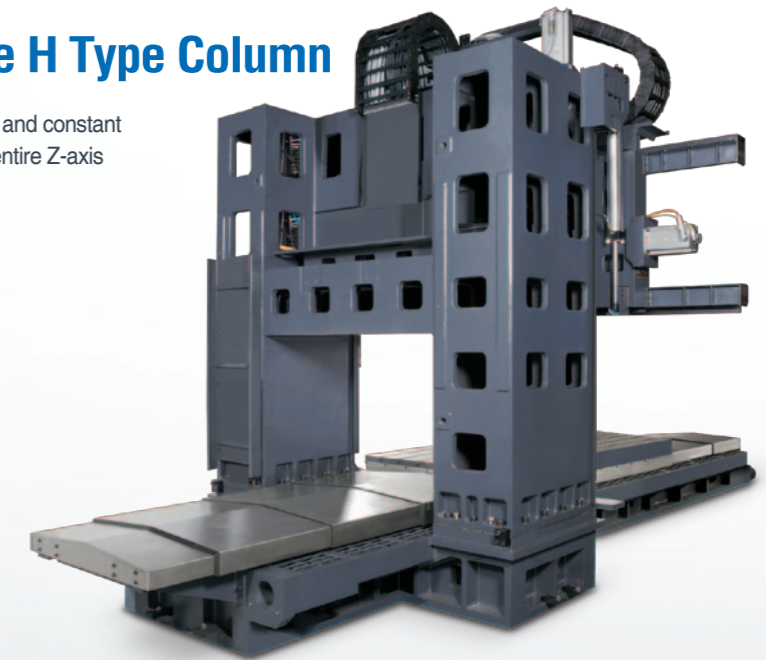


Z-Axis



One Piece H Type Column

For structural rigidity and constant precision along the entire Z-axis vertical stroke.

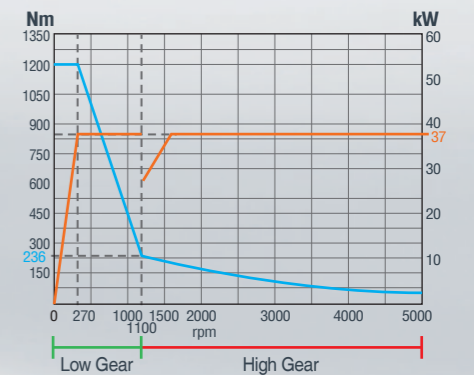


Mechanical Transmission 2-Axis Milling Head

MTK



1,200Nm High Torque Spindle



Closer to the Working Table

B-axis rotation center can shift down, and is equipped with a traditional fork type milling head which can get much closer to the working table surface when performing horizontal machining, effectively maximizing cutting space.



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Specifications

Model	Unit	Titan-1630	Titan-2240	Titan-3050
Travel				
X-Axis	mm	3000	4000	5000
Y-Axis	mm	2350	2900	3700
Z-Axis	mm	750	1000	1250
W-Axis	mm	300	300	500
Distance Between Columns	mm	1650	2200	3400
Table				
Table Length	mm	3000	4000	5000
Table Width	mm	1350	1850	2600
Table T-Slots	mm	28	28	28
Spindle				
Spindle Taper			BT-50	
Spindle Speed	rpm		5000	
Spindle Power (S6-40%)	kW		40	
Spindle Torque (S6-400%)	Nm		1200	
Milling Head				
(High Torque Mechanical Transmission)			B / C Axis	
B/C Axis Max. Rotation Torque	Nm		4500/3500	
B/C Axis Max. Clamping Force	Nm		4500	
B/C Rotating Angle	degree		+10 to -105° / ±185°	
B/C Minimum Scale	+/-		0.001° / 0.001°	
Feed Rate				
X/Y/Z Axis Rapid Feed Rate	m/min		24/24/24	
Automatic Tool Changer				
			BT-50	
Tool Magazine Capacity	pc		30	
Max. Tool Length	mm		250	
Max. Diameter	mm		Ø100	
Max. Cutting Tool Weight (per Piece)	kg		12	

Specifications are subject to change without notice.



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