

GANTRY CNC MACHINING CENTER

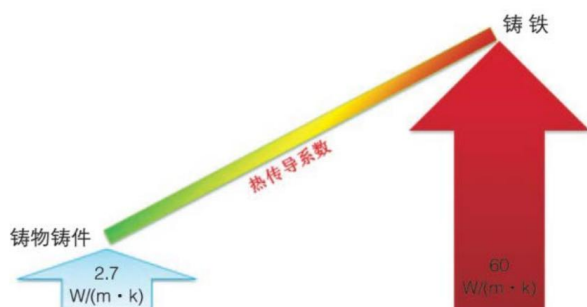
BL-GM2016

New generation, German technology, Adopt mineral materials casting, Super high accuracy stability

Features:

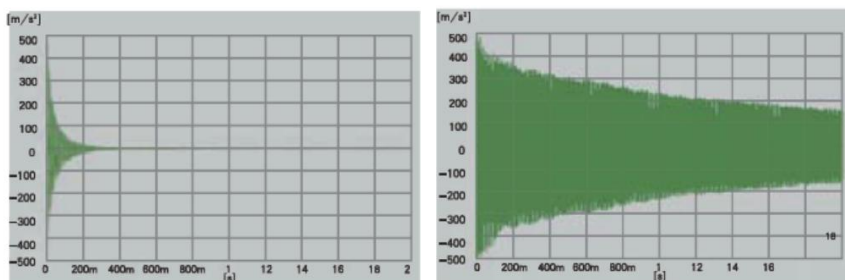
- The three servo axes are decelerated by the AC servo motor, decelerated by the direct-connected reducer, and driven by the coupling to rotate the ball screw to realize three-coordinate linear motion;
- Stable mineral casting bed column, reducing distortion and deformation, ensuring the anti-vibration ability and stability of the machine tool;
- All structures are analyzed and optimized by finite element to reach the optimal solution.
- The bed and column are made of new mineral materials to ensure the stability of physical and mechanical properties.
- The accuracy of the key parts of the machine tool is measured by the German ZEISS three-coordinate measuring machine, and the important accuracy of the machine tool is strictly tested by the U.K. RENISHAW laser interferometer to ensure the geometric accuracy and working accuracy of the machine tool;
- Super high thermal stability

The thermal conductivity is 1/20 of standard cast iron, specific heat capacity is 2.1times of standard cast iron,super high thermal stability and thermal inertia,effectively control the distortion caused by temperature's changing, make sure the stability of processing accuracy.



- Super strong vibration absorption performance

The Vibration absorption performance is 10 times of standard cast iron, make sure machine's accuracy stability when under heavy and dynamic loading, raise surface cutting performance 20%.



- Performance of material

Features	Unit	Mineral materials	Standard cast iron	Natural granite
Density	g/cm ³	2.275-2.5	7.0-7.4	3.0
Damping ratio	/	0.5	0.05	0.6
Poisson's ratio	/	0.22-0.3	0.23-0.27	0.2-0.3
Thermal conductivity	W/(m k)	2.7	50-60	1.5-2.5
Specific heat capacity	J(kg·K)	1050	500	800

Specification:

Item	Specification	Unit	BL-GM2016
Worktable	Table size	mm	2000×1300
	T slot(NO./width/gap)	mm	7/22/180
	Table max. loading	kg	4000
Travel	X/Y/Z axes travel	mm	2000/1600/850
Spindle	Distance from spindle nose to table surface	mm	200~1050
	Width of the door	mm	1600
	Spindle type	/	BT50
	Spindle motor	kw	15/18.5
	Spindle torque	Nm	190/313
	Spindle speed	rpm	6000
Feeding axes	X/Y/Z axes max. rapid moving speed	m/min	16/16/16
	X/Y/Z axes max. working moving speed	mm/min	5~10000
Precision	X/Y/Z axes positioning precision(full closed loop)	mm	0.018/0.017/0.017
	X/Y/Z axes repeatable positioning precision (full closed loop)	mm	0.013/0.011/0.008
Others	Air pressure	Mpa	0.65
	Power capacity	KVA	30
	Overall Size	mm	7630×5550×4800
	Weight	kg	18000

Main parts list:

Item	Brand
CNC Controller	JAPAN-FANUC
Spindle motor	JAPAN-FANUC
Linear guideway	TAIWAN-HIWIN/PMI;JAPAN-THK
Ball screw	TAIWAN-HIWIN/PMI;JAPAN-THK

Standard configuration:

- FANUC 0i TF(5) CNC controller