

MJB34100X1300X60 Double vacuum suction gantry saw with frequency conversion



A: Parameter

MJB34100X1300X60变频双真空吸重型龙门带锯机 技术参数 (Specification)		
最大加工尺寸	Max.working size(L×W×H)	2550×1300×220mm
工作台尺寸	Table size(L×W)	2550×1300mm
水循环真空泵		5.5KW×2
工作台进给速度	Worktable infeed speed	0-20m/min
工作台进给电机功率	Worktable infeed motor	3KW
锯轮直径	Diameter of saw wheel	1000mm (环保型)
锯带速度	Saw blade speed	28m/s
锯条尺寸	Size of saw blade(L×W×H)	7480×90×1.1mm
锯路	Saw kerf	1.6-1.8mm
锯轮电机功率	Saw wheel motor	37kw
锯轮升降电机功率	Saw wheel elevation motor	1.5kw
锯条至工作台距离	Distance from saw blade to worktable	4-220mm
锯条张紧压力	Blade tension pressure	100kg/cm ²
外型尺寸	Orerall dimensions(L×W×H)	6660×3300×2400mm
净重	Net weight	7100kg (身3500+头3600)
装柜拆装尺寸	Unpacking size of loading container	机身5400*2220*800mm 锯头3300*1200*2200mm

B、Machine main part brand:

Transformer	JUCHE	Button Switch	Siemens
Shutdown Switch	Schneider	AC contactor	Schneider
Bearing	NSK	Converter	Delt
Guide rail slider	Germany REXROTH	Ball Screw	TBI/ABBA
Touch Screen	WEINVIEW	Travel Switch	Taiwan TEND
Triplet	FANGDA	PLC Controller	Delta
Servosystem	Delta	Main motor	Jiang Tian

C、Function: specialized for light wood cutting.

D、Performance advantages

- 1、High precision lifting system:
 - (1) Precise positioning: high precision and high torque DELTA servo motor, the minimum resolution of positioning control is 0.01mm, which is more than 10 times of the accuracy of traditional gantry saw asynchronous motor (0.1 ~ 0.2mm);
 - (2) Precision ball screw: adopt φ 40 Taiwan brand Abba precision screw rod, with a lifting speed of 2m / min;
 - (3) Precision guide rail: international first-line brand Germany Rexroth heavy 45 # precision guide rail, slide clearance less than 5C, stable sawing, no vibration.
- 2、Intelligent: Taiwan wintone touch screen, mobile phone version of intelligent human-machine interface, more user-friendly operation experience, easy to adjust the feed speed or lifting thickness, sawing length and other operations.
 - (1) 16 groups of plate thickness preset quick selection.
 - (2) Four groups had high memory.
 - (3) Eight height presets.
 - (4) Intelligent fixed length.
 - (5) Intelligent fault detection.

E、Heavy duty design:

- (1) Heavy frame design fuselage: the frame is made of The frame adopts 300*89*11.5mm channel steel, 120*120 square tube, high-density frame reinforcement design, and 14mm thick plate stiffener plate welded. The whole machine has good rigidity, heat treatment prevents deformation, ensures accurate sawing, and can be used for 10 years.
- (2) Super large column and heavy plate sawing frame: the column size of gantry frame is 40cm * 20cm, thickened square tube to reduce the force and vibration of sawing; The saw wheel frame adopts 16mm thick plate full welding design to increase rigidity and reduce deformation, so as to ensure accurate sawing effect and prolong the service life of the saw blade.
- (3) Thickened worktable: the worktable is made of 22mm thick plate by full welding, with high-density ribbed plate in the middle. After heat treatment, it can prevent deformation, has good rigidity, and can withstand the impact force of 1-2T feeding, so as to ensure accurate sawing.
- (4) Heavy rail slide: 1. The 45? Heavy rail of Rexroth, an international first-line brand, is adopted. A single slide can bear 5 tons of weight. The table moves smoothly and the sawing effect is good.

F、Automatic tension and high speed saw wheel configuration:

- 1、Saw wheel: adopt ϕ 1000*80mm high-speed saw wheel, high hardness 45 # national standard steel, through ten processes of precision processing, improve speed, wear resistance and stability, not easy to run, saw blade, saw accurately, efficiency doubled.
- 2、Heavy bearing device: NSK heavy-duty separation bearing 32216/6216 is used in the saw wheel, with large inclined bead contact surface to ensure that the saw blade can bear more tension when tensioning, so that the deformation of the two saw wheels is small when tensioning, and the outer circle of the saw wheel is wear-resistant, stable and smooth.
- 3、Tension guide of the saw wheel: it is guided by the 35 # guide slider of the international brand Germany Rexroth. When the saw wheel is tensioned, the clearance of the slider is small, the saw wheel does not swing, the saw blade has good stability and is not easy to break.
- 4、Full automatic tension system: with the full-automatic tension function, one person can quickly replace the saw blade. The system has the function of automatic pressure maintaining. When sawing, the saw blade heats up, and the pressure is increased automatically. The saw blade is stable, and it is not easy to break or run.

G、High quality electrical equipment:

- 1、1. International first-line brand electrical appliances: Delta PLC / Siemens contactor / thermal relay Schneider contactor, low failure rate, the machine adopts European standard safety voltage of 110V.
- 2、Taiwan Tiande travel switch: double limit function, double protection, to prevent X-axis slide from damaging the machine because of too fast forward and backward speed.

H、Introduction to high quality accessories:

- 1、X-axis transmission: 4-die heavy-duty precision gear teeth, properly maintained, used for 8-10 years, stable and wear-resistant, table feed stable, speed 0-35m, efficient and accurate.
- 2、X-axis drive: variable frequency motor + reducer with heavy-duty high-precision rack, stable and fast feeding, high efficiency and precision.
- 3、Oiling machine: oil supply for all sliders of the whole machine to prevent the sliders from rusting and keep smooth.
- 4、sprinkler device: sawing heat when sawing, sprinkling device spray water on the saw blade to cool and lubricate. The saw blade is stable, and it is not easy to run saws and broken bars.
- 5、Saw clip guide wheel: the alloy is used as the clip to clamp the saw blade, which will not affect the work difference due to the up and down vibration. The high-speed guide wheel can prevent the saw blade from retreating, and ensure that the saw teeth are exposed on the saw wheel. It is not easy to break the blade, run the saw and cut accurately when the two pieces are used together.
- 6、Double vacuum table: double vacuum table can directly absorb sawing, solve the problem
- 7、Water circulation vacuum pump: 2 vacuum suction stations.