

## MJ41100AX1300X62 Heavy Duty Mobile Gantry Saw



### 1. Technical parameters:

MJ41100X1300X60 heavy-duty mobile gantry band saw technical parameters (Specification)		
Maximum processing size	Max.working size(L×W×H)	6200×1300×1300mm
working desk size	Table size(L×W)	5500×1000mm
Number of fixed wood fixtures	Clamp fittings	8
Table feed speed	Worktable infeed speed	0.3-20m/min
Table feed motor power	Worktable infeed motor	1.5KW
Saw wheel diameter	Diameter of saw wheel	1000mm (environmentally friendly)
Saw Belt Speed	Saw blade speed	25-31m/s
Saw blade size	Size of saw blade(L×W×H)	7800×80×1.1mm
saw road	Saw kerf	1.4-2.0mm
Saw wheel motor power	Saw wheel motor	37kw
Saw wheel lift motor power	Saw wheel elevation motor	1kw
Saw blade to table distance	Distance from saw blade to worktable	20-1300mm
Saw blade tensioning pressure	Blade tension pressure	80kg/cm2
Dimensions	Orerall dimensions(L×W×H)	9200×3300×3500mm
net weight	Net weight	4500kg

**2. Function :** It is professionally used for square wood or log open plank, especially for the processing of mahogany which is more expensive.

### 3. Performance advantages

- Ultra-fast: The speed of the extra-heavy-duty upgraded version: the feeding speed is 16 m/min, and the saw blade lifting speed is 2 m/min.
- High-precision lifting system:
  - (1) Precise positioning of lifting: high-precision and high-torque Delta servo motors, with positioning accuracy up to 0.01mm, which is more than 10 times the accuracy of traditional gantry saw asynchronous motors (0.1~0.2mm);
  - (2) Precision ball screw: φ32 Taiwanese brand ABBA precision screw is used, with a lifting speed of 2 m/min;
  - (3) Precision guide rail: Rexroth heavy-duty 45# precision guide rail of international first-line brand, the slider clearance is less than 5C, and the sawing is stable and will not vibrate.
- Environmental protection: the belt design of the outer circle of the saw wheel, water-free (spray) dry sawing, only need to vacuum the dust in line with the concept of environmental protection:
  - (1) Reduce pollution: solve the pollution problem of waste water discharged from traditional gantry saws and water saws, and pass environmental protection acceptance.
  - (2) Increase the value of waste products: Treat water sawdust as waste, and dry sawdust can be sold as raw materials.
  - (3) Ultra-quiet design: more in line with environmental protection noise requirements.
- Intelligence: Taiwan Weiluntong touch screen, mobile version of intelligent man-machine interface, more user-friendly operation experience, easy to adjust the feeding speed or lifting thickness, sawing length and other operations.
  - (1) 16 groups of plate thickness preset quick selection.
  - (2) 4 groups of high memory.

- (3) 8 groups of height presets.
- (4) Intelligent fixed length.
- (5) Intelligent fault detection.

#### 5. Low consumption

(1) Reduce maintenance costs and prolong the life of machine tools: water-free dry sawing reduces the corrosion of machine tools by waste water, and the expected service life of super heavy-duty sawing machines can reach more than 10 years. (The life expectancy of other brands of equipment is only 1-3 years)

(2) Save labor space: The production efficiency is increased by 6 times, and one person can operate it and six people can work.

(3) Save the saw blade: the saw blade uses the same 6 times faster speed, and the 6 times output relative to the saw blade cost is 1/6 of the classic version.

(4) Saving water and sewage treatment fees: dry sawing does not require water or spray cooling.

(5) Material saving: accurate positioning, less error, and more material saving.

#### 4. Heavy-duty design:

(1) Heavy-duty frame design Body: the frame is made of 100\*100\*5mm thick square tube, high-density skeleton reinforcement design, and welded with 10mm thick plate stiffeners, the whole machine has good rigidity, and is heat treated to prevent deformation, to ensure accurate sawing and prolong use time.

(2) Super large column and thick plate saw frame: the gantry frame is thickened with square tubes to reduce the force and vibration of sawing; the saw wheel frame adopts a 16mm thick plate fully welded design to increase rigidity and reduce deformation, ensure accurate sawing effect, and extend the saw blade. life.

(3) Heavy-duty guide rail slider: 1. The 35# heavy-duty guide rail of the international first-line brand Rexroth of Germany is adopted. A single slider can bear a weight of 5 tons, and the column moves smoothly, accurately and at high speed.

#### 5. Automatic tensioning and ultra-high-speed saw wheel configuration:

1. Ultra-large saw wheel: The ultra-high-speed saw wheel with  $\phi 1000 \times 70$ mm belt wrap, the national standard steel with high hardness, is precisely processed through ten procedures, with large friction force, ultra-fast speed, good stability, not easy to break, and accurate sawing. Double the efficiency.

2. Heavy-duty bearing device: NSK heavy-duty release bearing 32216 is used inside the saw wheel. The large contact surface of the inclined bead ensures that the saw blade can withstand greater tension when it is tensioned. The 6216 bearing auxiliary force keeps the two saw wheels parallel when they are tensioned. Fully sealed design, smooth and durable.

3. Saw wheel tensioning guide: Adopt international brand German Rexroth 35# guide rail slider guide, the slider gap is small when the saw wheel is tensioned, the saw wheel does not swing, and the saw blade is stable and not easy to break.

4. Fully automatic tensioning system: Using the fully automatic tensioning function, one person can quickly replace the saw blade. The system has an automatic pressure maintaining function. When sawing, the saw blade heats up and automatically boosts the pressure and maintains the pressure. The saw blade is stable and not easy to break or run the saw. .

#### Six, high-quality electrical configuration:

1. International first-line brand electrical appliances: Delta PLC/Siemens contactor/Schneider contactor for thermal relay, with low failure rate, and the internal safety voltage of the machine adopts European standard safety voltage of 110V.

2. Infrared positioning: The infrared height is used as the first trial cutting height positioning, which can be set directly on the screen without measuring with a ruler, which is convenient, fast, efficient and accurate.

3. Taiwan Tiande travel switch: It is used for double protection of lifting or moving limit function of saw head to prevent the X/Y axis slider from rushing out of the guide rail due to excessive speed, which damages the machine and is difficult to repair.

#### 7. Introduction of high-quality accessories:

1. Double chain feeding: The double chain drives the column to feed and feed with good stability, and has low requirements for dust and rust prevention to reduce failures.

2. Frequency conversion motor: adjust the feed speed of the column, stable and precise.

3. Oil filling machine: The oil supply for all the sliders of the whole machine prevents the slides of the guide rails from rusting and keeps them smooth.

4. Water spray device: The saw blade heats up during sawing. The water spray device sprays water on the saw blade in the form of spray to cool and lubricate the saw blade. The saw blade is stable and not easy to run and break.

5. Saw clip guide wheel: The alloy is used as the clip, and the saw blade will not vibrate up and down to affect the work difference. The 10,000-turn high-speed guide wheel prevents the saw blade from retreating and ensures that the sawtooth is exposed on the saw wheel. , Sawing precision.

6. Cleaning brush: The scraper can pre-clear most of the dust, the cleaning brush can sweep away the remaining dust, and the saw wheel belt can be kept clean.

#### Eight, the main accessories brand:

Transformer Jiuchuan Electric Push Button Switch Siemens Second Industry  
Circuit Breaker Schneider AC Contactor Schneider  
Saw Wheel Bearings NSK Inverter Delta  
Guide rail slider German Rexroth ball screw TBI/ABBA

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Touch screen Weiluntong travel switch Taiwan Tiande  
Triplet Fangda PLC host Delta  
Servo Motor Delta Main Motor Jiang Tian