

## MJ3971AX300 Horizontal Band Saw



### 1. Technical parameters:

MJ3971A×300 Horizontal Band Saw Machine (Digital) Specifications		
Maximum sawing size (saw blade up to 150mm)	Max. working size (Saw blade to 150mm)	300×300mm
Distance from saw blade to table	Distance from saw blade to worktable	3 ~ 200mm
Belt width	Width of conveyer belt	285mm
Saw wheel diameter	Diameter of saw wheel	711mm
Feed rate	Feed speed	0 ~ 18m/min
Saw wheel lift motor	Saw wheel elevation motor	0.18kw
Saw Wheel Motor	Saw wheel motor	15kw
hydraulic pressure	Hydraulic pressure	55kg/cm <sup>2</sup>
Vacuum pipe diameter	Dust outlet diameter	102mm×2
Saw blade size (length × width × thickness)	Size of saw blade (L×W×H)	4572×27×0.9mm 4572×41×1.27mm
saw road	Saw kerf	1.2 ~ 2.2mm
Dimensions (length × width × thickness)	Overall dimensions(L×W×H)	3000×1950×1850mm
net weight	Net weight	1700kg

**2. Function:** It is widely used in solid wood open plank (pine, fir, oak, poplar, mahogany, etc.), and has the characteristics of high efficiency, precision, labor saving, material saving and safety in sawing.

### 3. Performance advantages

1. High efficiency: hydraulic feeding speed is 0-18 m/min.

2. Low consumption:

(1) Save wages: recruit general workers to solve the difficult problem of recruiting old-fashioned vertical saw masters and reduce wage costs.

(2) Material saving: The sawing road is small, the board surface is smooth, and the finish is good. Compared with the traditional vertical saw, each board can save 4-5mm of sawing road and work difference materials. Light or dry after sanding to save material.

3. Intelligence: The intelligent positioning of the worm gear reducer is more accurate and reduces the plate opening error.

4. Digital display to determine the thickness: the number keyboard keys to set the thickness of the plate, the operation is fast and convenient, and the positioning is accurate.

### 4. Heavy-duty design:

1. Sturdy all-welded frame: The frame is welded by 100\*100\*5mm thick square tube with seamless all-welding method. The whole machine has good rigidity, the bottom frame is stable, and the equipment will not vibrate when running at high speed.

2. Thickened workbench: The workbench is made of 8MM thick plates covered with ribs at the bottom to prevent long-term stress deformation and affect the sawing accuracy.

3. Bold lifting shaft: the upper saw wheel frame bearing column is made of  $\phi 65\text{MM}$  diameter 45# carbon steel, which is heat-treated to prevent deformation, the extra-thick 8C hard chrome plating layer is not easy to rust and dechrome, the lifting is smooth, and the bearing saw wheel frame is not easy to deform and vibrate. Less, precise sawing.
4. Lifting system: Using the Taiwan brand ABBA precision screw, the lifting height can be freely set within 200MM, which is convenient for adjusting the thickness of the plate and accurate positioning.
5. Thickened saw wheel bottom plate: 14mm thick national standard steel plate is cut by laser, and the square tube is reasonably distributed vertically and horizontally to make reinforcing ribs.

**5. High configuration constant temperature hydraulic system:** stable oil temperature, smooth and smooth conveying, smooth cutting of plates, speed regulation range of 0-18 m/min:

1. Valve imported from the United States: control the hydraulic oil flow output smoothly and stably, there will be no fast and slow oil circuit or continuous heating and heating, ensuring stable feeding without shaking, smooth sawing of plates without vibration lines, large speed adjustment range can be matched with various Wood cutting speed.

(Other brands use the motor to drive the material, the speed adjustment range is small, and the motor is easily damaged when the adjustment range is exceeded)

2. Sino-Italian joint venture hydraulic motor: It is specially customized with imported technology from Italy, which drives the feeding wheel to drive the power of the feeding belt. The oil flow adjustment range is large. The hydraulic motor ensures stable power and rotational speed when switching between high and low speeds. The feeding belt drives smoothly and does not vibrate. .
3. Taiwan gear pump: The hydraulic motor drives the gear pump to output hydraulic oil, and the oil pressure is smooth and stable when it is turned on for a long time, and it will not heat up at high temperature.
4. Hydraulic feeding device: The hydraulic motor drives the feeding wheel to drive the in-line belt feeding, and the curved feeding wheel prevents the feeding belt from swinging and deviating, the conveying is stable, and the sawing plate is smooth and accurate.
5. Hydraulic feeding device: The hydraulic motor drives the feeding wheel to drive the in-line belt feeding, and the curved feeding wheel prevents the feeding belt from swinging and deflecting to the side, which is especially suitable for the process of cutting multiple pieces of one plate.

## 6. Automatic tensioning and saw wheel configuration:

1. Wear-resistant steel wheel: 45# national standard carbon steel with high hardness is precisely processed into a saw wheel with a diameter of 710mm and a thickness of 32mm through ten processes. , wear-resistant.
2. Heavy-duty bearing device: NSK heavy-duty release bearing 32013 is used inside the saw wheel. The large contact surface of the inclined ball ensures that the saw blade can withstand greater tension when tensioned, so that the deformation of the two saw wheels is small when the two saw wheels are tensioned, and the outer circle of the saw wheel is reduced. Wear, not easy Broken bar.
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, the saw blade has good stability and is not easy to break.
4. Automatic tensioning system: automatic tensioning of the saw blade, one person can quickly complete the replacement of the saw blade, the saw blade heating system has automatic pressure boosting and pressure maintaining functions during sawing, the saw blade has good stability, and it is not easy to break or run the saw.

## 7. Introduction of high-quality accessories:

1. Front pressure material: the inclined pressure plate design is convenient for continuous feeding of materials of different heights, the aluminum wheel is light and easy to feed the material and lift the pressure plate; the glue layer prevents the material from slipping and jamming, and adjusts it slightly when the height of the wood is different, and the cylinder adjusts the air pressure according to the thickness of the material , Press the wood to prevent deviation and ensure accurate sawing.
2. Vibration reduction of front pressing material: The vibration reduction function can buffer the vibration of thick wood when it exits the front pressing material, so as to ensure the working difference to reduce the vibration pattern.
3. Rear pressure material: the inclined pressure plate design will not block back the material to be fed, the glue layer prevents slippage, adjusts slightly when the height of the wood is different, the cylinder adjusts the air pressure according to the thickness of the material, and compresses the wood to prevent deviation to ensure sawing. Precise.
4. Water storage device: It is used to store water or diesel oil. When the saw blade is heated, the saw blade is cooled and lubricated by spraying water or diesel oil.
5. 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.
6. Saw clip guide wheel: The wear-resistant special ceramic 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 saw teeth are exposed to the saw wheel. The combination of the two is not easy to break. , running saw, sawing precision.
7. International first-line brand electrical appliances: Siemens/Schneider contactors/thermal relays have good durability for frequent starts. The phase sequence protector can automatically protect the voltage when the voltage is unstable, and the failure rate is low. The internal use of the machine European standard 110V safety voltage. (Other brands are all domestic ordinary brands)

## Eight, the main accessories:

Transformer Jiuchuan Electric Push Button Switch Siemens Second Industry  
 Circuit Breaker Schneider AC Contactor Schneider  
 Saw wheel bearing NSK guide rail slider Germany Rexroth  
 Ball screw TBI/ABBA triplet Fangda  
 Speed control valve American imported valve hydraulic motor favorite