

B-45X Table saw

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From standard sawing to complex cutting models: B-45X sliding table saw shows his comprehensiveness.



EQUIPMENT FOR THE B-45X:

CNC adjustment slide and electric adjustment main saw lift and electric angle adjustment

Sliding table length 3000 or 3200mm

Rip fence with manual adjustment, cutting width 1300mm

Crosscut fence, crosscuts to 3200mm

Main saw motor power: 5.5kw/6.5kw

Slot saw motor power: 1.1kw

With two speeds 4/5000 r/min, manually adjusted

Max. cutting height 100mm



CNC control panel: All major control functions are always visible. The panel pivots into the most convenient position and is accessible from both sides of the machine. Adjustment of both the saw blade and the rip fence are motorised.



CNC slide seat: The travel speed of the CNC slide seat can reach 250mm/sec. The numerical control servo motor control guarantees the dimensional accuracy to $\pm 1/10$ mm. The parallel baffle can automatically distinguish its position, especially the saw blade. Dangerous zone. It has an emergency function, thus eliminating the danger of squeezing. The values of the horizontal and vertical directions of the parallel baffle are automatically adjusted.



Extraction hood: The fluid-optimized structure of the large vacuum hood is convincing. The vacuum hood is suitable for a maximum saw blade diameter of 350 mm and a maximum sawing height of 100 mm.



Machine frame control panel: The controls mounted on the panel on the machine frame are clearly identified and easy to operate.

1. Scope of application:

It can not only cut wood, but also cut plastic, acrylic, artificial stone, non-ferrous metal, etc.



2. Machine features:

- (1) Taiwan delta system, delta driver, DELTA servo motor and digital servo control are adopted for the sliding table saw to reduce the operator's burden greatly.
- (2) Numerical control transmission structure: driven by Germany Rexroth slider R1653-25, dustproof guide R1605 and Taiwan Hiwin 4R20 ball screw, it ensures fast and accurate positioning in each dimension.
- (3) Electric lifting of main saw blade and digital display of 45 degree electric swing angle: the electric lifting mode of main saw blade is adopted, which makes the lifting and lowering of main saw blade easy to be solved by one key. The digital display mode of 45 degree electric swing angle ensures that the digital display is clear and accurate at any viewing angle.
- (4) The motor power of the main saw is 6.5kw with high power: (because the motor power of the main saw blade is not large enough when sawing the plate, the idling revolution of the saw blade will be 5000 revolutions, and the rotation speed will drop to about 4000 revolutions when the saw blade is forced in the process of sawing the plate, which will cause the plate to have saw cutting lines, edge burst and plate blackening, Therefore, it is necessary to select high power to ensure that every sheet is free of sawing lines, edge burst and blackening. The motor power of the grooving saw is 1.1KW: (because the motor power of the grooving saw blade is not large enough when sawing the plate, the idling revolution of the saw blade will be 9000 revolutions, and the rotation speed will drop to about 8000 revolutions when the saw blade is forced in the process of sawing the plate. In this way, the edge burst will occur when the plate is sawing and slotting, Therefore, it is necessary to select high power to ensure that there is no bottom edge burst when sawing each sheet.)
- (5) Frame structure: the sliding table saw is welded with 6mm-10mm steel plate and square tube bearing beam, and the frame weight is as high as 260 kg. The frame is the base of the machine, if the base is not firm, it will produce

deformation, but the accuracy of the plate cut by the frame variant machine will not be controlled, and a large number of waste products will be produced.

- (6) Sliding table (sliding table): the sliding table adopts a multi cavity structure with a width of 435mm (the wider the sliding table is, the greater the adhesion of the plate will be, and the diagonal tolerance will reach a higher accuracy when sawing the plate)
- (7) Motor starting mode: the push table saw adopts the 24 V low-voltage starting mode to protect human body. The high-voltage starting will cause the risk of electric shock to the operators when starting the power supply, causing serious economic losses and personal safety for both enterprises and employees. Therefore, it is absolutely necessary to choose the 24 V low-voltage starting mode to protect the personal safety of enterprises and employees.
- (8) Super large dust hood: the dust absorption rate of the dust hood is as high as 85%, which makes the operator get a healthy environment. The large enclosure of the hood makes the operator's hands and the saw blade isolated, so as to protect everyone's safety.
- (9) Crosspiece plate: crosspiece plate, guarantee of accurate vertical sawing. Adopt thickened aluminum profile rail and imported scale. Peach shaped baffle is precise and stable, which can be adjusted easily. The independent eccentric block is used to position the crosspiece, and the independent aluminum eccentric adjusting seat keeps the crosspiece stable in operation. Therefore, the angle and size of the saw board are accurate.

3.Configuration description for B-45X:

(1) Delta CNC panel



- 1) The accuracy of digital servo control can be easily realized through the panel, which greatly reduces the burden of workers;
- 2) Taiwan delta control system, delta server and DELTA servo motor are adopted;
- 3) With Chinese and English switching function.

(2) CNC electric slide carriage



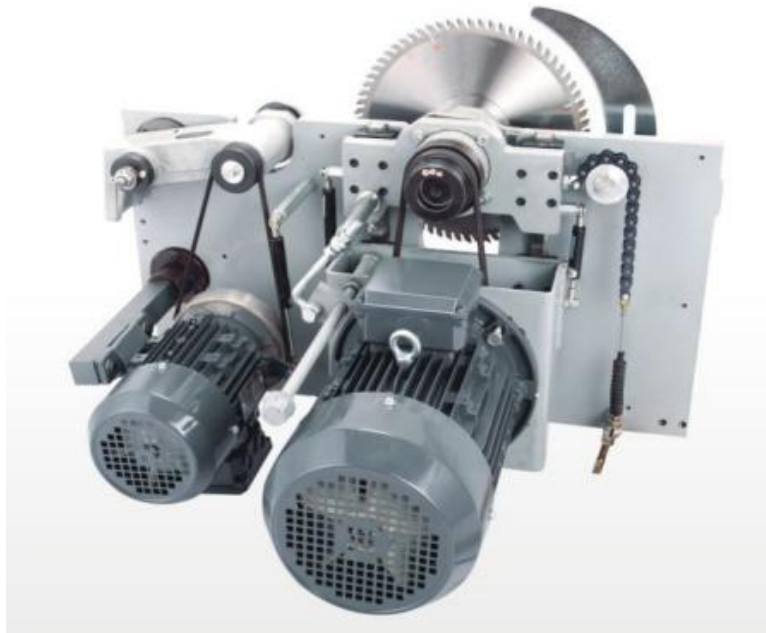
- 1) It is driven by Germany Rexroth slider R1653 - 25, dustproof guide R1605 and Taiwan silver 4R20 ball screw;
- 2) The precision is stable $\pm 0.1\text{mm}$.

(3) Electric control of saw blade



- 1) Main saw blade lifting and swing angle electric control;
- 2) It can be realized through the operation panel: Electric height adjustment of main saw blade, Electric adjustment of main saw blade angle, The angle of main saw blade is displayed by digital table;
- 3) The swing angle range is $0^\circ - 45^\circ$, The precision of swing angle is $\pm 0.1^\circ$.

(4) Inner works of the machine:



- 1) Independent research and development of 6.5kw main saw motor, high power motor, makes the height of 100 mm mahogany are easy and powerful cutting, no drop speed, saw blade life is durable;
- 2) Independent research and development of 1.1KW slot saw motor, high power motor makes cutting high gloss paint free multi-layer solid wood board without edge burst;
- 3) Main saw shaft and grooving saw shaft: overall dynamic balance treatment to ensure the quiet operation of the machine;
- 4) Equipped with high precision imported linear guide, maintenance free bearing and high strength slide.

(5) Frame type welding body rack:



- 1) The sliding table saw is welded with 6 mm - 10 mm steel plate and square tube bearing beam, and the frame weight is up to 260 kg;
- 2) The frame is the base of the machine. If the base is not firm, it will produce variant. Once the precision of the saw out of the frame variant machine can not be controlled, a large number of unqualified products will be produced.

(6) High strength slide



- 1) Precise and smooth, using magnesium aluminum alloy;
- 2) CNC machining center processing technology, with cleaning brush, slide maintenance free;
- 3) Original multi cavity structure, imported guide rail, high precision, high wear resistance, high torsional strength;
- 4) The standard length is 3200mm, and 1600mm,2800mm,3000mm,3800mm is available.



(7) Start mode:

- 1) Independent electric box safety control circuit protection;
- 2) High voltage start-up will cause the risk of electric shock to the operators when starting the power supply, causing serious economic losses and personal safety

for both enterprises and employees. Therefore, it is absolutely necessary for us to choose the 24 V low voltage start-up mode to protect the personal safety of enterprises and employees.

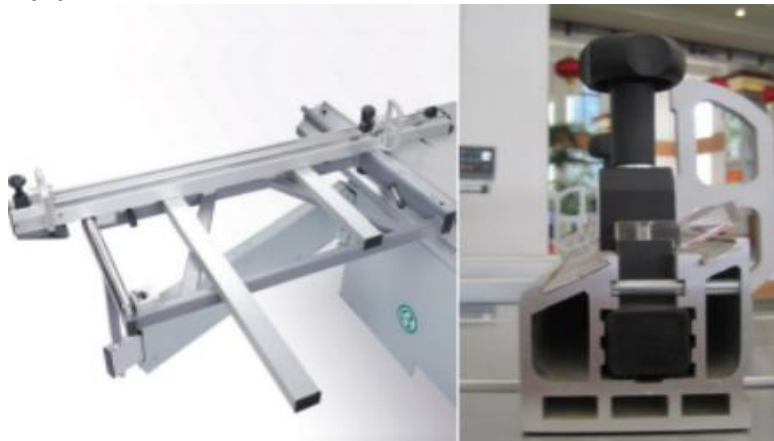
(8) Super large vacuum cleaner



Large dust hood:

- 1) The latest industrial design results conform to the optimal principle of fluid mechanics;
- 2) It is safe and reliable to isolate the operator's hands from the saw blade;
- 3) Dust absorption rate increased to 85%;
- 4) Applicable to the maximum saw blade diameter 400mm, maximum sawing height 125mm.

(9) Horizontal baffle device:



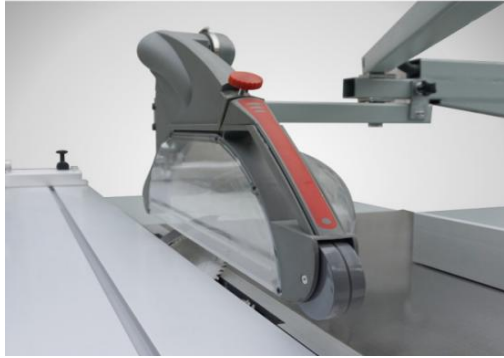
- 1) Horizontal baffle, guarantee of accurate vertical sawing;
- 2) Adopt thickened aluminum profile rail and imported scale;
- 3) The peach shaped baffle is precise and stable, which can be adjusted easily;
- 4) It can be extended to 3200 mm, and it is easy to cut large plates;
- 5) The independent eccentric block is used to position the crosspiece, and the independent aluminum eccentric adjusting seat keeps the crosspiece stable in operation.

4. Standard configuration parameters for B-45X

Configuration	Description
Sliding table	-The standard length of sliding table is 3200 mm, and the sawing length is 3100 mm. -It can be equipped with 3800 mm, 3000 mm, 2800 mm and 1600 mm
Slide carriage	-Maximum sawing width 1300mm, CNC adjustment, moving speed 250mm/s -The accuracy is ± 0.1 mm to eliminate human error -Terminal protection device with sensor -Automatic correction of shift data
Horizontal baffle	-Maximum sawing width 3200 mm, manual adjustment -Equipped with imported magnifying glass / scale, accurate and wear-resistant
Control panel	-Control panel: Digital buttons, digital display -The size of the slide carriage can be adjusted digitally, and the height and angle of the main saw can be adjusted electrically by pressing the key -Chinese and English conversion input control
Main saw	-Main saw hole diameter: 30mm -No load speed: 4000/5000rpm, 6.5kw -Height: 0-125mm -Angle: 0-45 °
Saw blade	-Maximum sawing height: 125mm -Maximum saw blade diameter: 400mm
Grooving saw	-Groove saw aperture: 20mm -No load speed: 8200 rpm, 1.1kw
Super large dust hood	-Hydrodynamic design, suitable for the maximum saw blade diameter of 400mm -With suction bracket
Net weight	- 880Kgs

5. Optional configuration parts:

(1) Super large dust hood



- The super large dust hood is better for dust collection.
- Protect the hand from sawing to prevent industrial injury.
- Quick installation and durability.

(2) Single side corner



- Unique technology for accurate sawing of bevel and right angles.