

# T ECHNICAL INFORMATION



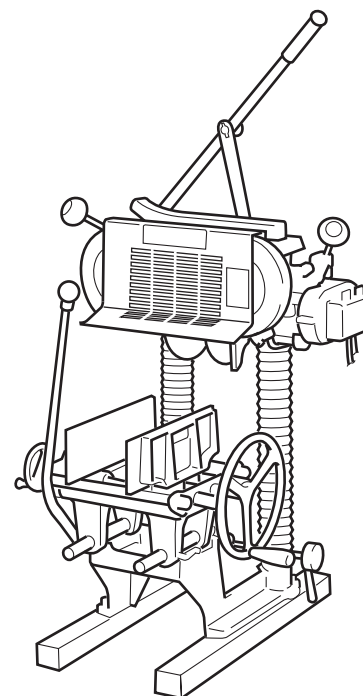
New Tool

Models No. ▶ 5500S

Description ▶ Tenonning Machine

## CONCEPTION AND MAIN APPLICATIONS

Model 5500S is a new small and light tenon drill suitable for machining 90mm or shorter material. Features of this model are: high cost performance, electric motor drive, high cutting performance and good operability.



### ► Specifications

Voltage (V)	Current (A)	Cycle (Hz)	Max.	No Load Speed	
			Output(W)	Rip cut	Cross cut
100	15	50/60	1420	1650rpm	2200rpm

### ► Capacity

Vice width	45 to 210mm
Vice lateral movement	Right/ 20mm, Left/ 45mm (for 120mm wood)
Vice lengthwise movement	80mm
Max. vertical cutting	92mm
Max. lateral cutting	68mm
Saw opening (tenon width)	0 to 130mm
Max. tenon length	245mm
Max. tenon high	240mm (lateral blade; 240mm, vertical blade; 155mm)
Max. cut-off width	135mm

Outer dimensions	560W x 620L x 810H mm
Weight	68kg
Power Supply Cord	5m
Round saw size	Outer dia. 235mm x thickness 1.45mm x hole dia. 16mm (50 blades) Outer dia. 180mm x thickness 1.2mm x hole dia. 20mm (100 blades)

### ► Standard equipment

Stand (support table) -----1  
Wrench (for adjustment of saw installation) -----1  
Bar (In order to stop the rotation flange  
when the saw blade replacing) -----1

## ► Features and benefits

- 1) Small and light weight (cf.)

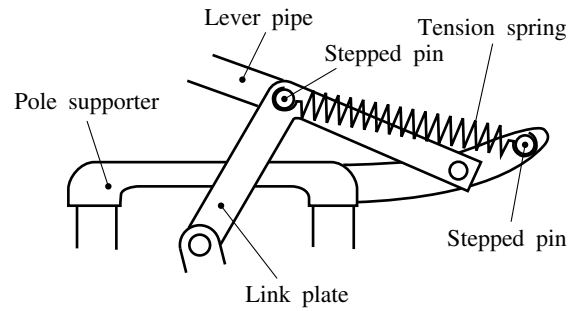
Makita(55000S) -----	68kg
Ryobi Toshiba (HW-5) -----	83kg
Hitachi (under 400A) -----	80kg
- 2) High performance with 2-motor method.
- 3) 100V home-use outlet can be used.
- 4) Elevation lever is light and easy to operate.
- 5) Open/close of the saw can be operated quickly by one-touch lever, and right and left saw can be set separately at one time.
- 6) Large vice handle enables attachment and detachment of material easily and securely.
- 7) Long tenon (170mm) can be clamped by one chuck with a vice's lengthwise lever.
- 8) Centering and cutting-off is easy by using a vice lateral handle.
- 9) New mechanism is employed in lateral saw adjustment. Adjustment at the time of saw grinding is very easy.
- 10) Wide range of work (tenon width; 0 to 130mm, length; 245mm) even in a small and light weight body.
- 11) The machine can be moved easily by using a roller casters that is installed in a support table.
- 12) Auxiliary rollers that move front/back and right/left enable accurate and easy machining of long material.

## ► Operation

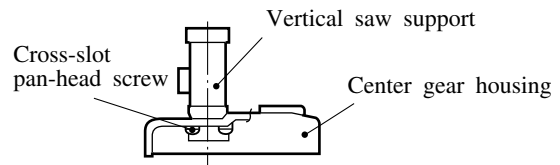
- 1) Angle of saw  
Lever that is provided in front of the body opens and closes the saw and fixes it. Right and left stoppers are adjusted by hexagonal bolts so that they can be fixed to desired positions by using hexagonal nuts.
- 2) Fine adjustment to marking  
Lateral reference (positioning end of the lateral saw of wood plate) and marking can be easily aligned by the vice roller.
- 3) Method of centering and longitudinal feeding of tenon is same as of 5501.

## ► Disassembly and assembly

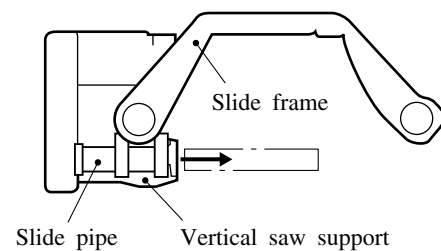
- 1) Remove stepped pins that connect lever pipe and link plate. Turn lever pipe to the right side of the tension spring until it stops and remove the tension spring. When hanging a tension spring, direction of hook should be as shown in the figure.



- 2) Remove four cross-slot pan-head screws inside the center gear housing, and disassemble vertical saw support and center gear housing.



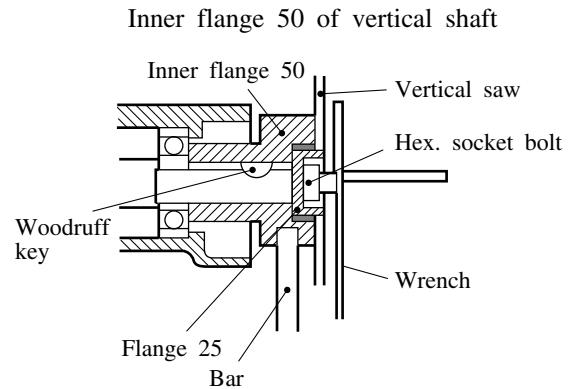
- 3) Remove spring pin that connects slide pipe and vertical saw support and pull out the slide pipe to the direction as shown in the figure, then disassemble the slide frame and vertical saw support.



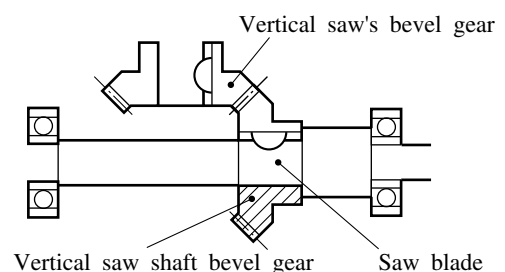
- 4) Replacement of carbon brush

Fully open the lever 240 outside and remove holder cap from the rear cover's hole by using a screwdriver then remove the carbon brush.

- 5) Insert a bar into the outer hole of inner flange and remove hex. socket bolt by using a wrench so that both inner flange 50 and flange 25 can be removed from saw blade shaft.



- 6) Remove gear housing of lateral saw section from the vertical saw support, and bevel gear of the lateral saw side will be disengaged. Separate saw blade shaft from vertical saw support, and the vertical saw shaft can be removed from the bevel gear.



## ► Adjustment of saw blade

- 1) When a diameter of vertical saw becomes small because of grinding, insert a bar into the outer hole of the vertical saw flange and stop the rotation. Use wrench 4-13 and turn hex. bolt in the rear side of the lateral saw shaft to move the vertical saw forward and backward, and align the lateral saw to the tip of the vertical saw. In the case of the ground lateral saw, make adjustment by moving the lateral saw's gear case right and left.