



# YST SERIES

## YST-800 Drilling and Tapping:

The YST series is widely used for rapid drilling, tapping and milling of small parts such as electronic, sanitary ware, automobiles and parts, medical equipment, etc.; it is also suitable for small molds and precision copper processing.



## YST-800 Drilling and Tapping Structural Characteristics:

### Higher Z-axis

The effective stroke of the Z axis is 410mm, the distance between the nose of the spindle and the table surface is 150-560mm, four axes can be installed without additional raiser blocks, and the rigidity of the machine tools is not affected.

### Large table

Table size: 1000x450mm. The larger worktable allow bigger parts processing.

### Optical linear scales

Optional Heidenhain, Fagor optical linear scales with accuracy of under ±5um.

### Stable base

Shared V8 base, 1020mm span, high rigidity, high precision bed.



### Powerful motor

Standard 20000rpm BT30 high-speed motor, power 5.5kw; optional 12000rpm for large torque motor, power 7.5kw.

### Fast tool change speed

Equipped with 21T servo tool magazine, tool change time is 1.8s; X/Y axis rapid traverse at 60m/min, Z axis rapid traverse at 48m/min.

### Powerful spindle

YSV800 configuration BBT40 outer diameter 150mm with higher rigidity, and short nose spindle, five bearings, coolant nozzles.

### Upgrade Configuration

German Rexroth roller linear guideway, Taiwan servo tool magazine, Taiwan spindle.

### Beautiful appearance

European and American style sheet metal design, beautiful and practical.

YSV800/YST800

## YST Series Parameters

Model			YST-600	YST-700	YST-800
Subject	Specifications	Units			
Travel	X/Y/Z axis	mm	600/400/350	700/450/410	800/450/1410
	Spindle Nose to Worktable	mm	145-495	150-560	150-560
	Spindle Center to Column	mm	420	495	520
	Three-Axis Guideway			Ball Linear Guideway	
Worktable	Worktable Size (L*W)	m m	700x420	900x450	1000x450
	Maximum Table Load	kg	350	350	350
	T-Slot	mm	3-14x125	3-14x125	3-14x125
Spindle	Spindle taper	type	BT-30	BT-30	BT-30
	Spindle speed	rpm	20000	20000	20000
	Spindle Drive Type			DDS	
Feedrate	Rapid Traverse(X/Y/Z)	m/min	60/60/48	60/60/48	60/60/48
	Cutting Feedrate(X/Y/Z)	m/min	10	10	10
Tool Changer	Automatic Tool Changer			Fast Wheel	
	Type of Tool Shank	type	BT-30	BT-30	BT-30
	Tool Storage Capacity	Piece	21	21	21
	Max. Tool Diameter (Adjacent)	mm	60	60	60
	Max. Tool Diameter (Empty)	mm	80	80	80
	Max. Tool Length	mm	200	200	200
	Max. Tool Weight	kg	3.5	3.5	3.5
	Tool Change Time	sec	1.8	1.8	1.8
Motor	Spindle Motor	kw	5.5	5.5	5.5
	Three-Axis Servo Motor	kw	1.5/1.5/3.0	1.5/1.5/3.0	1.5/1.5/3.0
Accuracy	Accuracy	mm	±0.005	±0.005	±0.005
	Repeatability	mm	±0.003	±0.003	±0.003
Power Required	Power Requirement	kva	15	15	15
	Ar Pressure Requirement	kg/cm <sup>2</sup>	6^8	6^8	6^8
Others	External Dimensions (L*W*H)	mm	2000x2650x2750	2200x2850x2750	2300x2850x2750
	Gross Weight	t	3.6	4.5	4.8

### Standard Accessories

Safety Door	Rigid Tapping	Dual LED Work Light	Spindle Nose Air Blow
Automatic Lubricating System	Heat Exchange for Electric Cabinet	LED 3 Color Warning Light	Leveling Bolts and Pads
Fully Enclosure Guard	Coolant Tank & Chip Tray	Spindle Oil Cooler	M30 Auto Off

### Options

Optical Linear Scale	Tool Breakage Probe	Oil Mist Collector	CTS
Chip Conveyor System	OI Skimmer	Workpiece & Tool Probe	Rotary Table