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CNC VERTICAL MACHINING CENTER SERIES

YANGSEN

YS SERIES

YS-870 Structural Characteristics of Engraving and Milling Machine:

- The product can be precisely processed for different materials: steel, copper, aluminum, graphite, glass, etc. It is widely used in precision molds, copper electrodes, shoe mold manufacturing, batch processing of clocks, watches and glasses products, etc.



YS-870 Engraving and Milling Machine Features:

A patented spindle box of engraving and milling machine

- There is a stepped hole inside the spindle box; the electric spindle is installed in the stepped hole, and a flange is used to fix the spindle box.

Worktable

- Box structure and ballscrew are integrally formed.

Optical linear scales

- Optional Heidenhain, Fagor optical linear scales with accuracy of under $\pm 5\mu\text{m}$.

Base

- Multi-layer wall box structure, rear chip extractions.

The distance between the motor base and the table surface is 185-485mm

Ultra-wide base

A triangular rib structure of bridge column

The utility model of the triangular rib structure of the door bridge improves the dynamic and static rigidity of the machine tool and enhances the processing accuracy.

Optional Direct-Driven BBT40 spindle

Upgrade Configuration

Standard servo carousel tool magazine; HSK-E40 motor spindle; graphite protection package; laser tool probe; oil mist collector system, and more.

Stable Accuracy

The closed loop optical linear scales with high positioning accuracy can effectively suppress the positioning error caused by the thermal extension of the lead ballscrew.

System Stability

- Equipped with Siemens 828D system.

YS Series Parameters

Model			YS-760A	YS-760B	YS-770	YS-870A	YS-870B	YS-870C	YS-8012
Subject	Specifications	Units							
Travel	X/Y/Z axis	mm	700/600/300	700/600/300	700/700/350	800/700/300	800/700/300	800/700/380	800/1200/300
	Spindle Nose to Worktable	mm	90-390	225-525	175-525	130-430	205-505	205-585	195-495
	Three-Axis Guideway		Linear Guideway						
	Door Width		760	760	740	810	810	810	810
Worktable	Worktable Size (L*W)	mm	700*600	700*600	700*700	720*640	720*640	800*700	1200*800
	Maximum Table Load	kg	400	400	400	400	400	400	1000
	T-Slot	no/mm	5-16x125	5-16x125	5-16x120	5-16x120	5-16x120	5-16x120	7-18x100
Spindle	Spindle taper	type	BT-30	ER32	ER32	BT-30	ER32	ER32	BT-40
	Spindle speed	rpm	24000	24000	24000	24000	24000	18000	15000
	Spindle Drive Type		Built-In						DDS
Feedrate	Rapid Traverse (X/Y/Z)	m/min	15/15/12	15/15/12	15/15/12	15/15/12	15/15/12	15/15/12	15/15/12
	Cutting Feedrate (X/Y/Z)	m/min	12	12	12	12	12	12	12
Tool Changer	Tool Changer		Carousel Servo ATC						ARM ATC
Motor	Spindle Motor	kw	7.5	7.5	7.5	7.5	7.5	11	5.5
	Three-Axis Servo Motor	kw	0.85/0.85/1.3	0.85/0.85/1.3	0.85/0.85/1.3	0.85/0.85/1.3	0.85/0.85/1.3	1.3/1.3/1.3	1.3/3.0/1.3
Accuracy	Accuracy	mm	± 0.005	± 0.005	± 0.005	± 0.005	± 0.005	± 0.005	± 0.005
	Repeatability	mm	± 0.003	± 0.003	± 0.003	± 0.003	± 0.003	± 0.003	± 0.003
Power Required	Power Requirement	kva	10	10	10	10	10	9	12
	Air Pressure Requirement	kg/cm ²	6^8	6^8	6^8	6^8	6^8	6^8	6^8
Others	External Dimensions (L*W*H)	mm	2100×2500×2550	2100×2500×2550	2100×2700×2600	2100×2700×2550	2100×2700×2550	2100×2100×2550	3000×2500×2600
	Gross Weight	t	3.8	3.9	4.2	4.7	4.8	5	6.8

Standard Accessories

- ★ 7.5KW-ER32-24000
 - ★ Auto Tool Length Measurement
 - ★ Spindle Oil Cooler
 - ★ Fully Enclosure Guard
- ★ Coolant Tank & Oil Skimmer
 - ★ Hand Wheel (MPG)
 - ★ Leveling Bolts and Pads
 - ★ Tool Box
- ★ Automatic Lubricating System
 - ★ Transformer
 - ★ LED Work Light
 - ★ Spindle Air & Coolant Blast
- ★ Transmission Software and Cables 20m
 - ★ LED 3 Color Warning Light
 - ★ Maintenance and Operational Manual
 - ★ Heat Exchange for Electric Cabinet

Options

- ★ Oil Mist Collector
 - ★ ATC
- ★ 7.5KW-BT30-24000
 - ★ BBT40-15000
- ★ Rotary Table

YANGSEN

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 tool 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.

The distance between the nose of the spindle and the table surface

450mm

1000mm

Ultra-wide base of 1020mm

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	500/400/350	700/400/350	800/450/410
	Spindle Nose to Worktable	mm	145–495	145–495	150–560
	Spindle Center to Column	mm	420	420	520
	Three-Axis Guideway	—	Ball Linear Guideway		
Worktable	Worktable Size (L*W)	mm	700x420	800 × 420	1000x450
	Maximum Table Load	kg	350	300	350
	T-Slot	no/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	tools	21	21	21
	Max. Tool Diameter (Adjacent)	mm	60	60	60
	Max. Tool Diameter (Empty)	mm	80	80	80
	Max. Tool Length	mm	200	250	200
	Max. Tool Weight	kg	3.5	3	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
	Air Pressure Requirement	kg/cm²	6^8	6^8	6^8
Others	External Dimensions (L*W*H)	mm	2000x2650x2750	2000 × 2402 × 2340	2300x2850x2750
	Gross Weight	t	3.6	4.2	4.8

Standard Accessories

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

Options

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

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YSV SERIES

YSV-957 Vertical Machining Structural Characteristics:

- The machine tool of this product is equipped with name brand components in the industry, equipped with a large torque, high speed motor and a super rigid bed design.

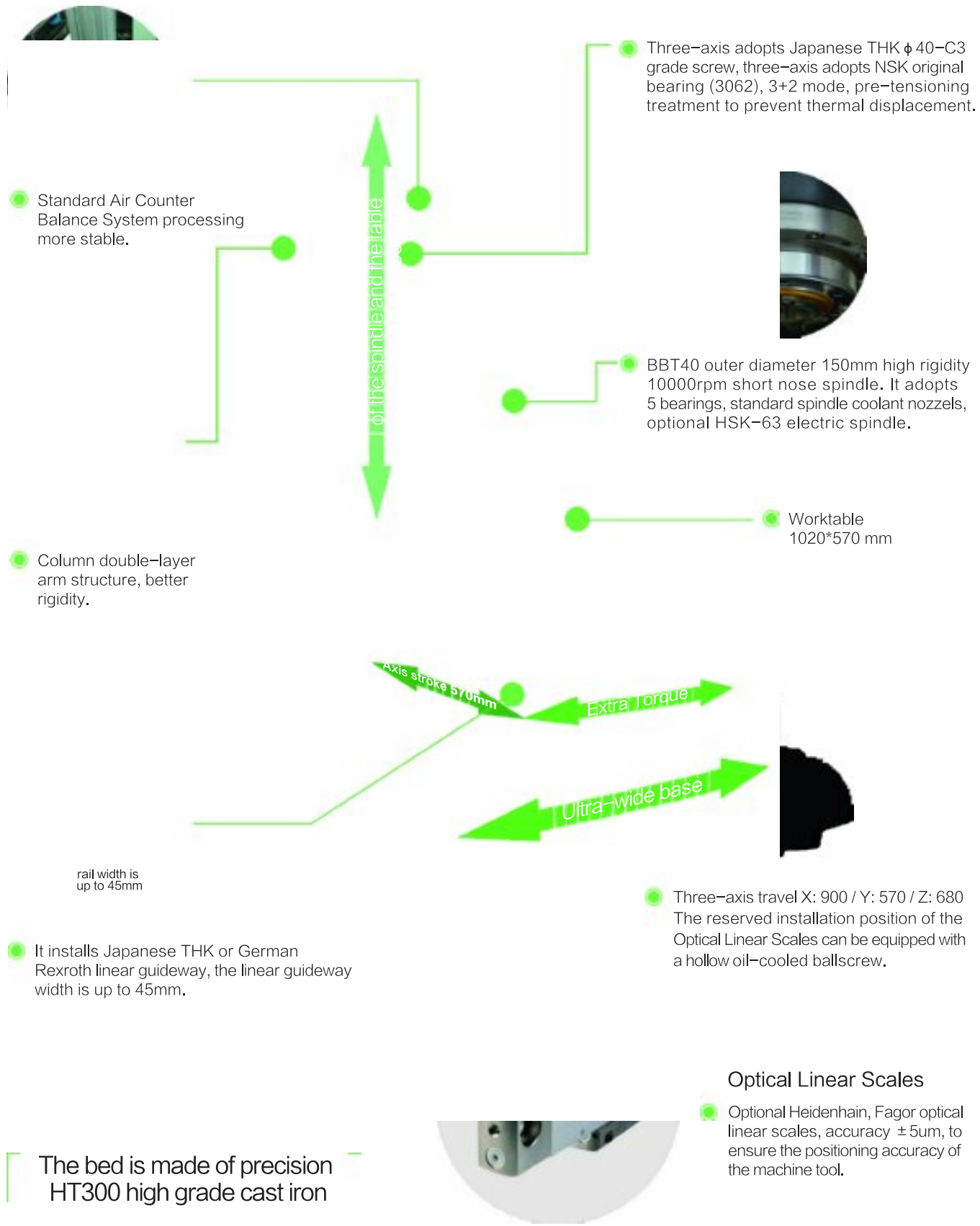
Taking into account high torque, high speed and high precision, it is suitable for processing all kinds of products and molds.



Machine cutting performance:

					
Cutting depth		Cutter diameter		Tapping	
5mm		Ø60		M24	
Cutter	Ø63mm*5T	Cutter	Ø60mm*2T	Cutter	M24*3P
Spindle speed	1000rpm	Spindle speed	1200rpm	Spindle speed	150rpm
Feed	F600	Feed	F100	Feed	F450
Width	56mm	Width	60mm	Width	40mm

YSV-957 Vertical Frame Machine Structural Characteristics:



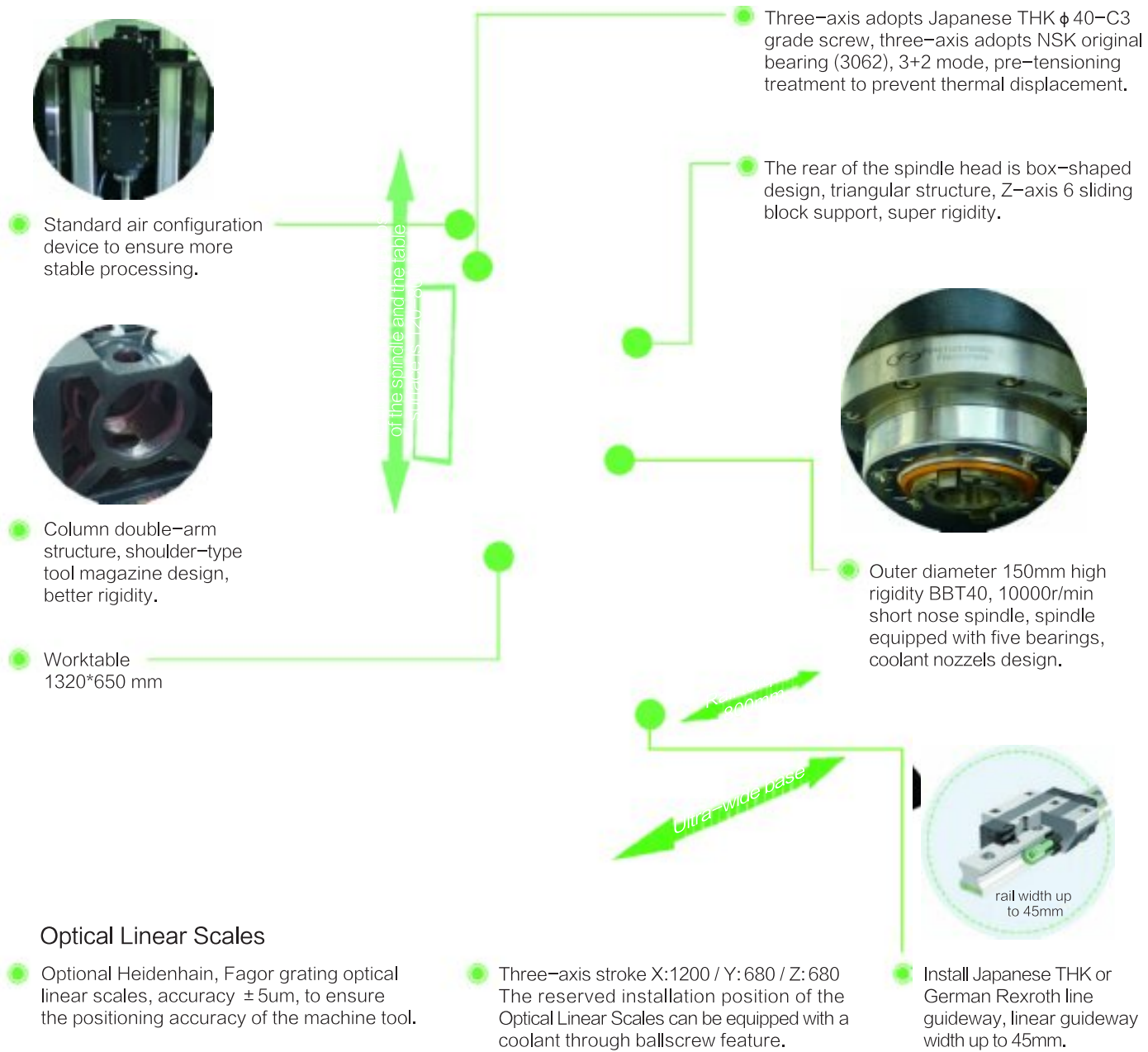


YSV SERIES

YSV-1265 Vertical Machining Structural Characteristics:

- The machine tool of this product is equipped with name-brand components in the industry. It comes with high torque and a high-speed motor. With a super rigid bed design. It takes into account large torque, high speed, and high precision. It is suitable for high-speed precision machining in small and medium-sized mechanical parts in the automotive, aerospace, textile machinery, and other industries.

YSV-1265 Vertical Frame Machine Structural Characteristics:



Machine cutting performance:

Surface Milling Steel 45#		Drilling Holes Steel 45#		Tapping Steel 45#	
Cutting depth		Cutter diameter		Tapping	
6mm		Ø80		M30	
Cutter	Ø125mm*5T	Cutter	Ø80mm*2T	Cutter	M30*3P
Spindle speed	550rpm	Spindle speed	800rpm	Spindle speed	120rpm
Feed	F500	Feed	F100	Feed	F420
Width	80mm	Width	80mm	Width	50mm



YSL SERIES

YSL-1482 Vertical Machining Structural Characteristics:

The machine tool of this product is equipped with name-brand components in the industry. It comes with high torque and a high-speed motor. With a super rigid bed design. It takes into account large torque, high speed, and high precision. It is suitable for high-speed precision machining in small and medium-sized mechanical parts in the automotive, aerospace, textile machinery, and other industries.



Machine cutting performance:

Surface Milling Steel 45#	Drilling Holes Steel 45#	Tapping Steel 45#
Cutting depth 6mm	Cutter diameter Ø80	Tapping M30
Cutter Ø125mm*5T	Cutter Ø80mm*2T	Cutter M30*3P
Spindle speed 550rpm	Spindle speed 800rpm	Spindle speed 120rpm
Feed F500	Feed F100	Feed F420
Width 80mm	Width 80mm	Width 50mm

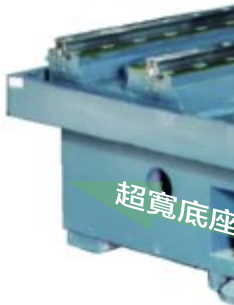
YSL-1482 Vertical Frame Machine Structural Characteristics:

THK C3 ball screw: ball screw prestretched to prevent thermal extension.

Spindle head rear part box-type design, triangle structure, Z-axis 6 slider support, super rigidity.



Taiwan φ 155 high-rigidity BBT50 spindle, 6000r/min, 6 bearings, ring spray design.



Travel: X/Y/Z 1400/800/750, reserve the installation position of the optical scale.

The machine bed casting adopt precision HT300 high-grade casting iron

Z-axis box way design optional.



BF gear box

optional Italy BF gear box, super cutting ability, using high and low gear switch, stepless shifting.

Worktable 1500*800mm



THK linear guideway, super strong rigidity



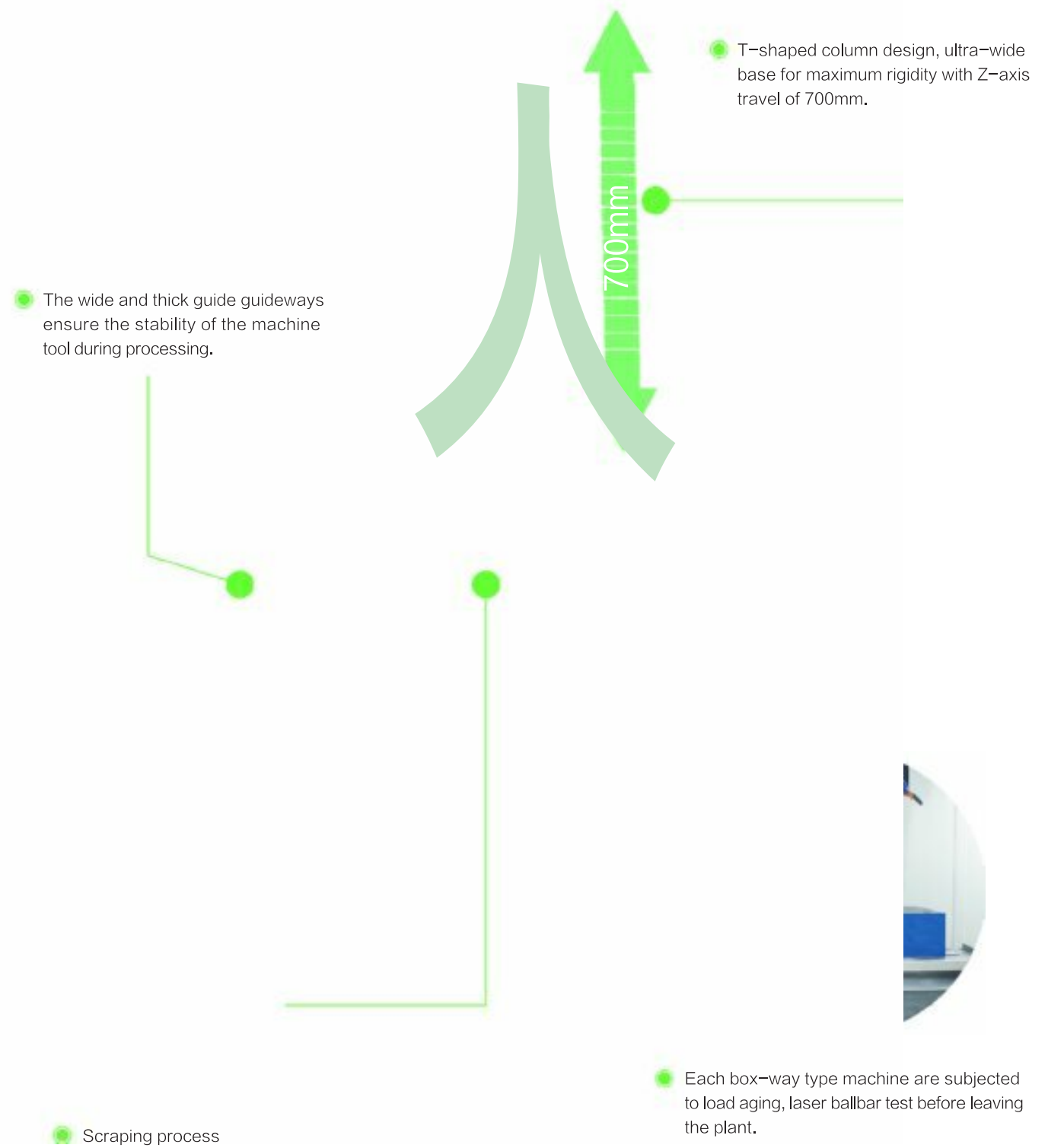
YSP SERIES

YSP-857 Vertical Machining Structural Characteristics:

- All three axes are equipped with servomotors that are one grade larger than the same models of other brands, with large torque output, fast and accurate positioning.

YSP-857 Vertical Machining Frame Structural Characteristics:

- The bed is made of H300 cast iron, quenched, and all slide surfaces are precisely polished and covered with imported wear-resistant leather TURCITE-B. Ensure the accuracy and durability of the machine tool.



Machine cutting performance:

Surface Milling Steel 45#

Cutting depth

6mm

Cutter	Ø63mm*5T
Spindle speed	550rpm
Feed	F500
Width	80mm

Drilling Holes Steel 45#

Cutter diameter

Ø80

Cutter	Ø80mm*2T
Spindle speed	800rpm
Feed	F100
Width	80mm

Tapping Steel 45#

Tapping

M30

Cutter	M30*3P
Spindle speed	120rpm
Feed	F420
Width	50mm

YANGSEN

YSD SERIES

YSD4–260 Structural Characteristics of Quad–Head Spindle Machining Center:

High rigidity

The compact double–column structure design;
It ensures stability and accuracy during high–speed processing.

High efficiency

4 parts can be processed at the same time;
4 pcs of ϕ 125–BT30 motor spindles with a maximum
speed of 24000rpm, equipped with 32 tool magazines,
high surface quality and high processing efficiency.

High configuration

The Mitsubishi E80A system is stable, high–speed, and
high–precision;
The three–axis motor is upgraded to 1.5KW (HG153), and
the high–power torque motor can better adapt to the high
rigidity characteristics of the machine tool;
The machine tool is equipped with name brand components,
such as Taiwan roller linear guideway, Schneider Electric,
Taiwan AirTac pneumatic components.

Application industry:

- This machine tool is widely used in processing industries such as sanitary ware, decorations, parts, etc.

YSD8–565 Structural Characteristics of Eight–Spindle Machine:

High rigidity

Column double–arm structure design; X/Z axis 6 sliding seat support, strong rigidity to ensure powerful cutting; three axis installs
NSK ϕ 40mmC3 grade ballscrew, NSK original bearing (3062), 3+2 mode, pre–tensioning treatment to prevent thermal change bit.

High efficiency

It can process 8 parts at the same time, the maximum speed of the eight electric spindles is 18000rpm, and the surface quality of
the processing is high.

High configuration

Mitsubishi M80 system is stable, high–speed and high–precision; the three–axis motor upgrades XY axis 3KW (HG303), Z axis
4.5KW (HG453), and the configuration of high–power torque motor can better adapt to the high rigidity characteristics of
the machine tool; the machine tool is equipped with brand–name components, such as : Schneider Electric, Japanese SHOWA
oil pump lubrication system, SMC pneumatic components.



Application industry:

- This machine tool is widely used in processing industries such as sanitary ware, decorations, parts, etc.



CPU heat sink

Polished surface of heat sink

Faucet peeling

Polished surface of heat sink



YSCP/YS SERIES

YSCP-835 Structural Characteristics of Shovel Machine:

- **High efficiency**
Special multi-station fixture: at least two mounting seats are fixed at the bottom of the shovel seat, and the shovel blades on each mounting seat respectively shovel the work piece fixed on the shoveling table, and the shovel blade can be obtained by shoveling at one time.
Multiple heat sinks greatly improve the processing efficiency of the heat sink.
- **High precision**
The blade seat, blade components, sliding table and supporting components are designed to be light and portable, which reduces the difficulty of their movements and improves the accuracy of their movements. Ensure the machining accuracy of shoveling metal parts.
- **High configuration**
Mitsubishi E80 CNC system, HG303 motor with 1:3 reducer, high torque; Japan THK 50mm diameter lead ballscrew, 45 wide roller linear guideway;
The machine tool is equipped with name brand components, such as: Schneider Electric, Japanese SHOWA oil pump lubrication system, SMC pneumatic components.

Application industry:

- The machine tool is mainly used in the processing of heat sinks for aviation, new energy, LED, IC and other related electrical products.

● PC series heat sink

● Server heat sink

● Power supply/LDE heat sink

● CPU heat sink

YS650-5AX Structure Characteristics:

- The five-axis machining center is equipped with five-axis linkage RTCP tool tip following function, TCP can directly command the movement path of the tool front point, which is convenient for programming. It is widely used in the fields of multi-angle deep cavity slot molds, aircraft impellers, blades, automobile tires, and gear processing.



5-axis linkage + RTCP processing advantage

- Program pre-reading function: avoid pauses during program segment conversion, realize constant path speed and smooth speed to achieve the best surface quality;
- Continuous path mode: intelligently control the trajectory at the junction of the program segments to eliminate pauses to reduce processing time;
- Dynamic feedforward control: avoid track deviation caused by compensating follow-up error, and no loss of accuracy due to increased speed;
- Dynamic compressor: Compress G0/G1/G2/G3 blocks into a 5-degree polynomial spline curve within the specified tolerance, and smooth the processing path with a constant curvature.

Features of the whole machine:

- Equipped with German Siemens **ONE** system, five-axis linkage, powerful functions;
- Equipped with DD motor $\phi 650$ five-axis rotating worktable, which can realize high-speed cutting processing, installs direct drive mode. It does not cause precision errors through worm gear transmission, and achieves high-precision positioning.
- Use servo tool magazine, the tool change time is shortened to **2S**. Also, the tool arm is controlled by the frequency converter, which effectively improves the processing efficiency of the product.
- The machine tool parts belong to the name brand. We have the top configuration in the industry.

Frame achine characteristics:

- The castings of the machine body are made of HT300 resin sand, which has undergone overall annealing, natural aging and two high-frequency vibration aging treatments, which has high rigidity, high stability. It could achieve the effect of not deforming for a long time.
- Equipped with high-speed and high-precision electric spindle HSK-A63 spindle with 20,000 rpm to ensure high-speed cutting ability.
- X, Y, Z three-axis installs high-precision ballscrew pairs to ensure the machining accuracy of the machine tool. It has the characteristics of fast response, good stability, high transmission accuracy, high component rigidity, low friction and it can eliminate transmission gaps.



YSV Series Parameters

Model			YSV-855	YSV-966	YSV-957	YSV-1060Z
Subject	Specifications	Units				
Travel	X/Y/Z axis	mm	850/550/550	900/600/600	900/570/680	1000/600/680
	Spindle Nose to Worktable	mm	120-670	120-720	110-790	110-790
	Spindle Center to Column	mm	610	610	610	610
	XYZ Guideway		Roller Linear Guideway			
Worktable	Worktable Size (L*W)	mm	1000×550	1020×570	1020×570	1100×570
	Maximum Table Load	kg	800	1000	1000	1000
	T-Slot	No/m	5-18×90	5-18×90	5-18×90	5-18×90
Spindle	Spindle taper	type	BBT-40	BBT-40	BBT-40	BBT-40
	Spindle speed	rpm	10000	10000	10000	10000
	Spindle Drive Type		Belt			
Feedrate	Rapid Traverse(X/Y/Z)	m/min	48×48×48	36×36×36	30×30×30	30×30×30
	Cutting Feedrate(X/Y/Z)	m/min	10	10	10	10
Tool Changer	Automatic Tool Changer		ARM Type			
	Type of Tool Shank	type	BT-40	BT-40	BT-40	BT-40
	Tool Storage Capacity	tools	24	24	24	28
	Max. Tool Diameter (Adjacent)	mm	80	80	80	68
	Max. Tool Diameter (Empty)	mm	120	120	120	105
	Max. Tool Length	mm	300	300	300	300
	Max. Tool Weight	kg	7	7	7	7
	Tool Change Time	sec	1.4	1.4	1.4	1.4
Motor	Spindle Motor	kw	7.5/11	7.5/11	7.5/11	7.5/11
	Three-Axis Servo Motor	kw	2.0/2.0/3.0	2.0/2.0/3.0	2.0/2.0/3.0	2.0/2.0/3.0
Accuracy	Accuracy	mm	±0.005	±0.005	±0.005	±0.005
	Repeatability	mm	±0.003	±0.003	±0.003	±0.003
Power Required	Power Requirement	kva	20	20	20	20
	Air Pressure Requirement	kg/cm²	6^8	6^8	6^8	6^8
Others	External Dimensions (L*W*H)	mm	2720×2740×2837	2480×3260×2410	2830×2760×3000	2830×2760×2900
	Gross Weight	t	5.8	5.8	6.8	6.8

Standard Accessories

- ★ Safety Door
- ★ Automatic Lubricating System
- ★ Fully Enclosure Guard
- ★ Air Gun
- ★ Rigid Tapping
- ★ Heat Exchange for Electric Cabinet
- ★ Spindle Coolant Nozzles
- ★ Coolant Gun
- ★ Dual LED Work Light
- ★ LED 3 Color Warning Light
- ★ Coolant Tank & Chip Tray
- ★ Tool Box
- ★ Spindle Nose Air Blow
- ★ Leveling Bolts and Pads
- ★ M30 Auto Off
- ★ Maintenance and Operational Manual

Options

- ★ Optical Linear Scale
- ★ CTS
- ★ Workpiece & Tool Probe
- ★ Tool Breakage System
- ★ Chip Conveyor System
- ★ Rotary Table
- ★ Oil Mist Collector
- ★ Oil Skimmer
- ★ Laser Tool Probe
- ★ 12000rpm DDS Spindle
- ★ 15000rpm DDS Spinlde
- ★ HSK-63-18000 Built-In Motor

Model			YSV-1160	YSV-1265	YSV-1270	YSV-1482	YSV-1782
Subject	Specifications	Units					
Travel	X/Y/Z axis	mm	1100/600/600	1200/680/680	1200/700/700	1400/800/750	1700/800/750
	Spindle Nose to Worktable	mm	120-720	120-800	120-820	150-900	150-900
	Spindle Center to Column	mm	650	700	700	880	880
	XYZ Guideway		Roller Linear Guideway				
Worktable	Worktable Size (L*W)	mm	1200×600	1320×650	1320×650	1500×800	1800×800
	Maximum Table Load	kg	1000	1200	1200	1500	1500
	T-Slot	no/mm	5-18×100	5-18×100	5-18×100	6-22×110	7-22×110
Spindle	Spindle taper	type	BBT-40	BBT-40	BBT-40	BBT-40	BBT-50
	Spindle speed	rpm	10000	10000	10000	10000	6000
	Spindle Drive Type		Belt				
Feedrate	Rapid Traverse(X/Y/Z)	m/min	30×30×30	30×30×30	30×30×30	24×24×24	24×24×24
	Cutting Feedrate(X/Y/Z)	m/min	10	10	10	10	10
Tool Changer	Automatic Tool Changer		ARM Type				
	Type of Tool Shank	type	BT-40	BT-40	BT-40	BT-40	BT-50
	Tool Storage Capacity	tools	24	24	24	24	24
	Max. Tool Diameter (Adjacent)	mm	80	80	80	80	105
	Max. Tool Diameter (Empty)	mm	120	120	120	120	200
	Max. Tool Length	mm	300	300	300	300	350
	Max. Tool Weight	kg	7	7	7	7	15
	Tool Change Time	sec	1.4	1.4	1.4	1.4	4.9
Motor	Spindle Motor	kw	15	15	15	15	15
	Three-Axis Servo Motor	kw	3.0/3.0/4.5	3.0/3.0/4.5	3.0/3.0/4.5	3.0/3.0/4.5	3.0/3.0/4.5
Accuracy	Accuracy	mm	±0.005	±0.005	±0.005	±0.005	±0.005
	Repeatability	mm	±0.003	±0.003	±0.003	±0.003	±0.003
Power Required	Power Requirement	kva	25	25	25	25	25
	Air Pressure Requirement	kg/cm²	6^8	6^8	6^8	6^8	6^8
Others	External Dimensions (L*W*H)	mm	3170×2900×2900	3300×2940×3100	3300×2940×3100	4800×3800×3800	5300×3800×3800
	Gross Weight	t	7	8.7	8.7	10.5	11.5

Standard Accessories

- ★ Safety Door
- ★ Automatic Lubricating System
- ★ Fully Enclosure Guard
- ★ Air Gun
- ★ Rigid Tapping
- ★ Heat Exchange for Electric Cabinet
- ★ Spindle Coolant Nozzles
- ★ Coolant Gun
- ★ Dual LED Work Light
- ★ LED 3 Color Warning Light
- ★ Coolant Tank & Chip Tray
- ★ Tool Box
- ★ Spindle Nose Air Blow
- ★ Leveling Bolts and Pads
- ★ M30 Auto Off
- ★ Maintenance and Operational Manual

Options

- ★ Optical Linear Scale
- ★ CTS
- ★ Workpiece & Tool Probe
- ★ Tool Breakage System
- ★ Chip Conveyor System
- ★ Rotary Table
- ★ Oil Mist Collector
- ★ Oil Skimmer
- ★ Rotary Table
- ★ 12000rpm DDS Spindle
- ★ 15000rpm DDS Spinlde
- ★ HSK-63-18000 Built-In Motor



YSL Series Parameters

Model			YSL-1060	YSL-1270	YSL-1375
Subject	Specifications	Units			
Travel	X/Y/Z axis	mm	1000 × 600 × 680	1200 × 700 × 700	1300 × 750 × 600
	Spindle Nose to Worktable	mm	120–800	120–820	70–670
	Spindle Center to Column	mm	620	715	785
	XYZ Guideway		XY Linear Guideway,Z Box Way		
Worktable	Worktable Size (L*W)	mm	1100 × 570	1320 × 650	1360 × 700
	Maximum Table Load	kg	1000	1200	1500
	T–Slot	No/m	5–18 × 90	5–18 × 100	5–18 × 135
Spindle	Spindle taper	type	BBT–40	BBT–40	BBT–50
	Spindle speed	rpm	10000	10000	6000
	Spindle Drive Type		Belt		
Feedrate	Rapid Traverse(X/Y/Z)	m/min	30/30/15	30/30/15	20/20/10
	Cutting Feedrate(X/Y/Z)	m/min	10	10	10
Tool Changer	Automatic Tool Changer		ARM Type		
	Type of Tool Shank	type	BT–40	BT–40	BT–50
	Tool Storage Capacity	tools	24	24	24
	Max. Tool Diameter (Adjacent)	mm	80	80	105
	Max. Tool Diameter (Empty)	mm	120	120	200
	Max. Tool Length	mm	300	300	350
	Max. Tool Weight	kg	7	7	15
	Tool Change Time	sec	1.4	1.4	4.9
Motor	Spindle Motor	kw	7.5/11	15	15
	Three–Axis Servo Motor	kw	2.0/2.0/3.0	3.0/3.0/4.5	3.0/3.0/4.5
Accuracy	Accuracy	mm	± 0.005/300	± 0.005/300	± 0.005/300
	Repeatability	mm	± 0.003	± 0.003	± 0.003
Power Required	Power Requirement	kva	20	25	25
	Air Pressure Requirement	kg/cm²	6^8	6^8	6^8
Others	External Dimensions (L*W*H)	mm	2830 × 2760 × 3330	3300 × 2940 × 3570	4700 × 3800 × 3250
	Gross Weight	t	7.0	9.0	11

Standard Accessories

- ★ Safety Door
- ★ Automatic Lubricating System
- ★ Fully Enclosure Guard
- ★ Air Gun
- ★ Rigid Tapping
- ★ Heat Exchange for Electric Cabinet
- ★ Spindle Coolant Nozzles
- ★ Coolant Gun
- ★ Dual LED Work Light
- ★ LED 3 Color Warning Light
- ★ Coolant Tank & Chip Tray
- ★ Tool Box
- ★ Spindle Nose Air Blow
- ★ Leveling Bolts and Pads
- ★ M30 Auto Off
- ★ Maintenance and Operational Manual

Options

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

Model			YSL-1482	YSL-1782	YSL-1890
Subject	Specifications	Units			
Travel	X/Y/Z axis	mm	1400 × 800 × 750	1700 × 800 × 750	1800 × 900 × 600
	Spindle Nose to Worktable	mm	150–900	150–900	150–750
	Spindle Center to Column	mm	880	880	950
	XYZ Guideway		XY Linear Guideway,Z Box Way		
Worktable	Worktable Size (L*W)	mm	1500 × 800	1700 × 800	2000 × 900
	Maximum Table Load	kg	1500	1500	1600
	T–Slot	No/m	6–22 × 110	5–22 × 135	5–22 × 165
Spindle	Spindle taper	type	BBT–50	BBT–50	BBT–50
	Spindle speed	rpm	6000	6000	6000
	Spindle Drive Type		Belt		
Feedrate	Rapid Traverse(X/Y/Z)	m/min	24/24/10	20/20/10	20/20/10
	Cutting Feedrate(X/Y/Z)	m/min	10	10	10
Tool Changer	Automatic Tool Changer		ARM Type		
	Type of Tool Shank	type	BT–50	BT–50	BT–50
	Tool Storage Capacity	tools	24	24	24
	Max. Tool Diameter (Adjacent)	mm	80	105	105
	Max. Tool Diameter (Empty)	mm	120	200	200
	Max. Tool Length	mm	300	350	350
	Max. Tool Weight	kg	7	15	15
	Tool Change Time	sec	1.4	4.9	4.9
Motor	Spindle Motor	kw	15	18.5	18.5
	Three–Axis Servo Motor	kw	3.0/3.0/4.5	7.0/4.5/4.5	7.0/4.5/4.5
Accuracy	Accuracy	mm	± 0.005/300	± 0.005/300	± 0.005/300
	Repeatability	mm	± 0.003	± 0.003	± 0.003
Power Required	Power Requirement	kva	25	35	35
	Air Pressure Requirement	kg/cm²	6^8	6^8	6^8
Others	External Dimensions (L*W*H)	mm	4700 × 2950 × 2766	4800 × 3800 × 3800	5300 × 3800 × 3800
	Gross Weight	t	10.5	13	16.5

Standard Accessories

- ★ Safety Door
- ★ Automatic Lubricating System
- ★ Fully Enclosure Guard
- ★ Air Gun
- ★ Rigid Tapping
- ★ Heat Exchange for Electric Cabinet
- ★ Spindle Coolant Nozzles
- ★ Coolant Gun
- ★ Dual LED Work Light
- ★ LED 3 Color Warning Light
- ★ Coolant Tank & Chip Tray
- ★ Tool Box
- ★ Spindle Nose Air Blow
- ★ Leveling Bolts and Pads
- ★ M30 Auto Off
- ★ Maintenance and Operational Manual

Options

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



YSP Series Parameters

Model			YSP-857	YSP-1060	YSP-1580	YSP-1890
Subject	Specifications	Units				
Travel	X/Y/Z axis	mm	800/500/700	1100/600/600	1500/800/700	1800/900/680
	Spindle Nose to Worktable	mm	110-810	180-780	185-885	160-840
	Spindle Center to Column	mm	575	655	810	950
	Three-Axis Guideway		Box Way			
Worktable	Worktable Size (L*W)	mm	1000x530	1300x600	1700x800	2000x900
	Maximum Table Load	kg	600	800	1500	1600
	T-Slot	no/mm	5-18x100	5-18x120	5-22x135	5-22x165
Spindle	Spindle taper	type	BBT-40	BBT-40	BBT-50	BBT-50
	Spindle speed	rpm	8000	8000	6000	6000
	Spindle Drive Type		Belt			
Feedrate	Rapid Traverse(X/Y/Z)	m/min	15/15/12	15/15/12	10/10/10	10/10/10
	Cutting Feedrate(X/Y/Z)	m/min	10	10	10	10
Tool Changer	Automatic Tool Changer		ARM Type			
	Type of Tool Shank	type	BT-40	BT-40	BT-50	BT-50
	Tool Storage Capacity	tools	24	24	24	24
	Max. Tool Diameter (Adjacent)	mm	80	80	105	105
	Max. Tool Diameter (Empty)	mm	120	120	200	200
	Max. Tool Length	mm	300	300	350	350
	Max. Tool Weight	kg	7	7	15	15
	Tool Change Time	sec	1.4	1.4	4.9	4.9
Motor	Spindle Motor	kw	7.5/11	15	18.5	18.5
	Three-Axis Servo Motor	kw	2.0/2.0/3.0	3.0/3.0/4.5	7.0/4.5/4.5	7.0/4.5/4.5
Accuracy	Accuracy	mm	± 0.01	± 0.01	± 0.01	± 0.01
	Repeatability	mm	± 0.005	± 0.005	± 0.005	± 0.005
Power Required	Power Requirement	kva	20	30	40	40
	Air Pressure Requirement	kg/cm²	6^8	6^8	6^8	6^8
Others	External Dimensions (L*W*H)	mm	2450*2400*2850	3300*2600*2800	4420*3800*3650	4850*3900*3700
	Gross Weight	t	6.5	8.5	14	17

Standard Accessories

- ★ Safety Door
- ★ Automatic Lubricating System
- ★ Fully Endosure Guard
- ★ Air Gun
- ★ Rigid Tapping
- ★ Heat Exchange for Electric Cabinet
- ★ Spindle Coolant Nozzles
- ★ Coolant Gun
- ★ Dual LED Work Light
- ★ LED 3 Color Warning Light
- ★ Coolant Tank & Chip Tray
- ★ Tool Box
- ★ Spindle Nose Air Blow
- ★ Leveling Bolts and Pads
- ★ M30 Auto Off
- ★ Maintenance and Operational Manual

Options

- ★ Optical Linear Scale
- ★ CTS
- ★ Workpiece & Tool Probe
- ★ Tool Breakage System
- ★ Chip Conveyor System
- ★ Umbrella Type Auto Tool Changer (16/20)
- ★ Oil Mist Collector
- ★ Oil Skimmer
- ★ Rotary Worktable (4Th-Axis)
- ★ Arm Type Tool Changer

YS Customized Parameters

Model			YSD4-260	YSD8-565	YSCP-835	YS650-5AX
Subject	Specifications	Units				
Travel	X/Y/Z axis	mm	260/280/200	550/650/550	800/450	700/450/400
	Spindle Nose to Worktable	mm	150-350	150-700	250-700	200-600
	Spindle Center to Column	mm	810	700	740	400
	Three-Axis Guideway		Roller Linear Guideway			
Worktable	Worktable Size (L*W)	mm	800*700	2100*550	800*700	φ 650
	Maximum Table Load	kg	800	1500	1000	200
	Countertop bolt hole	mm				
	T-Slot	no/mm	5-16 × 120	3-18 × 140	5-18*120	5-18*100
	Worktable Indexing					0.001°
Spindle	Spindle taper	type	BT30	BT30		HSKA63
	Spindle speed	rpm	24000	24000		18000
	Spindle Drive Type		Built-In			
Feedrate	Rapid Traverse(X/Y/Z)	m/min	12/12/12	30/30/30	10/10	30/30/30
	Cutting Feedrate(X/Y/Z)	m/min	10	10	10	10
Tool Changer	Automatic Tool Changer		In-line	In-line		ARM
Motor	Spindle Motor	kw	7.5*4	7.5*8		20
	Three-Axis Servo Motor	kw	1.5/1.5/1.5	3.0/3.0/4.5	3.0/3.0	3.0/3.0/3.0
Accuracy	Accuracy	mm	± 0.005	± 0.005	± 0.005	± 0.005
	Repeatability	mm	± 0.003	± 0.003	± 0.003	± 0.003
Power Required	Power Requirement	kva	5	20	10	30
	Air Pressure Requirement	kg/cm²	6^8	6^8	6^8	6^8
Others	External Dimensions (L*W*H)	mm	2100*2100*2550	3100*2600*3050	3000*2500*2300	
	Gross Weight	t	4.8	9.8	5	12

Standard Accessories

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

Options

- ★ Optical Linear Scale
- ★ Oil Skimmer
- ★ Tool Breakage System
- ★ Workpiece & Tool Probe
- ★ Oil Mist Collector
- ★ Arm Type Tool Changer
- ★ CTS