

All We Do Are Clients Demand



厦门扬森机械科技有限公司

Xiamen YANGSEN Machinery Technology Co., Ltd

Pre-sales technical information
YSH-800D Horizontal Machining Center

Xiamen Yangsen NC Equipment Co., Ltd.

Add: No.586-590 Shanbian Rd.Dongfu Industrial Zone Haicang Dist, Xiamen, Fujian Province, China 361027

T: +86-592-6682467

Website: www.cncyangsen.com



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1. Company Culture

Yangsen NC equipment co., LTD., is a professional engaged in development and design, manufacturing of CNC machine tools and CNC tools of high-tech enterprises, the company based on Taiwan manufacturing technology, and the equipment manufacturing enterprise many years of manufacturing experience, continuously absorb the industry at home and abroad, developed into today has perfect production and assembly processing center machine specialized manufacturers.

The company's products include vertical processing center, high-speed processing center machine, high-speed drilling tooth tapping machine, gantry processing center machine, horizontal processing center machine and other main customer groups are precision mold manufacturing industry, automobile manufacturing industry, electronic communication industry, precision parts processing industry and aerospace industry, etc. The company has always been operating in good faith. Sustainable innovation business philosophy, with the most cost-effective products and perfect products and perfect services, to provide customers with the best solution, to create the greatest value for customers, improve the competitiveness of customers.

In the future, the company will continue to adhere to the high-quality policy " customer first, market to be the first; technology first, quality win: the concept, to create value for customers. Innovative research, excellence, dedicated to meet customer needs and expectations.

Main business: high-speed high-precision carving and milling machine, vertical machining center series, high-speed drilling tooth tapping machine, gantry machining center series, horizontal machining center series.

Enterprise service: to provide better products and services, we have been working hard and always unremitting, we aim to build a brand, honest and trustworthy and reciprocal win-win, we through continuous technical update and perfect service system to help users better use of equipment, because professional we continue to progress.

Technical support: professional engineers come to the home to solve the equipment selection for customers. To solve the processing requirements of various products, help users choose suitable, economic solutions, so that users choose products more cost-effective.



Quality control: our products have passed the ISO9001 quality system and the ISO14000 environmental management system certification

After-sales service: the nationwide after-sales service network is the guarantee of our product sales throughout the country.

2. Machine features



YSH-800D whole machine features.

1. X/Y/Z axis adopts high strength high speed linear roller guide, fast feed up to 36/36/30 (m/min); each axis guide adopts imported heavy load roller linear guide, pre-load is V3, high bearing and stable accuracy;
2. Spindle motor standard with β IIP30/8000 high torque wide motor. High rigidity Taiwan spindle with the outer diameter up to 190mm, unique labyrinth device and labyrinth blowing device at the spindle nose to effectively protect the spindle. Spindle maximum speed up to 5300rpm, both high rigidity and high precision.
3. Machine tool parts belong to the famous factory brand.



日本SHOWA注油器



SMC气源处理装置



欧易交换器



大功率水泵



施耐德电气元器件



日机LED照明灯



高亮LED带蜂鸣警示灯



刀库

1. Switching table parameters

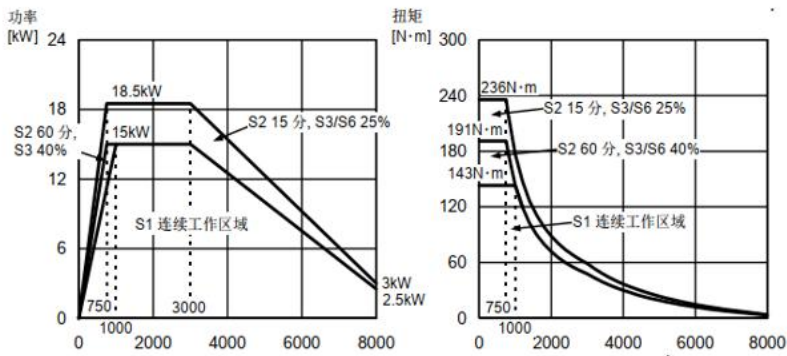
规格/型号	单位	FMHG-800KYP2
工作台尺寸	mm	800*800
中心孔径	mm	Ø55 ^{H7}
平置全高	mm	508.3
T型槽宽	mm	18H7
伺服马达	FANUC	βis22/2000*2
最小分割单位	Deg.	1° *360
分割精度	Sec.	10"
重覆精度	Sec.	2"
总减速比		1/120 1/144
适用环境温度	° c	18° -40°
油压源压力	kg/cm ²	35
盘面最大转数	RPM	8.33
容许切削力 (刹车锁紧时)	Kg-m	650
锁紧扭力	Kgf-m	860
最大工件负载	水平 kg	1500
转台重量	kg	750

2. Triaxial motor and spindle motor torque diagram

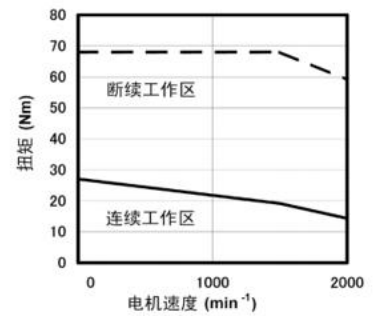


系统	0i-MF Plus (5)	额定功率kW	额定扭矩N.m	最大扭矩N.m
X轴	β is 30/2000-B	3	27	68
Y轴	β is 30/2000-B	3	27	68
Z轴	β is 30/2000-B	3	27	68
主轴SP	β iIP 30/8000-B	15	143	236

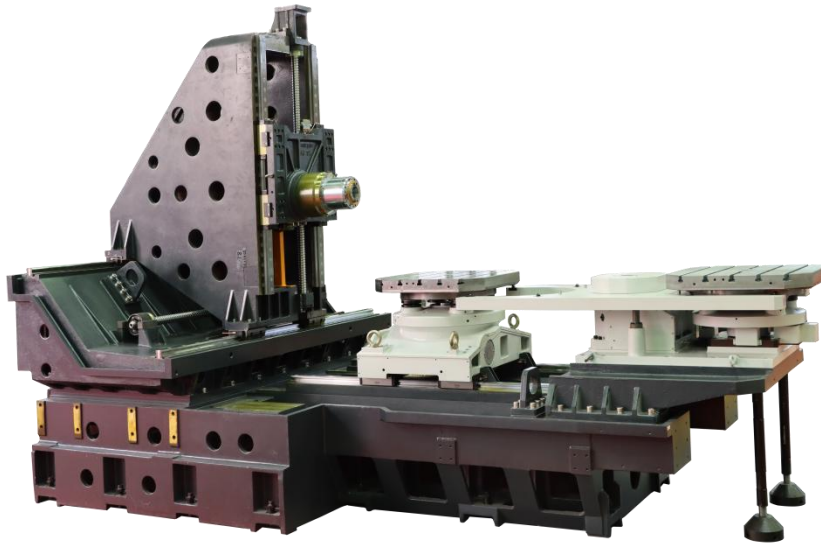
β iIP 30/8000-B



β is 30/2000-B



3. Opt mechanics features



YSH-800D opt mechanics features.

1. Resin sand castings, castings all through computer-controlled electric furnace tempering treatment, spindle box high rigidity optimization design, increase a slider to bring more excellent support.
2. The body is designed with oil and water separation and spiral chip discharge structure, the machine tool is more humanized and has excellent environmental protection.
3. 3, motor seat, bearing seat and body grinding shovel scraping with no pad design, to ensure that the machine tool long-term precision maintenance.
4. The three axes adopt high precision, high speed, and can bear high load of Japanese or European and American brands of ball linear slides and ball screws to ensure dynamic accuracy and durable service life.
5. The machine adopts larger line rail design and the three axes have larger guide span to show excellent dynamic accuracy when cutting. The three axes are equipped with scale position, and the lubricating oil circuit is designed with internal storage.
6. The three axes' bearings adopt Japanese NSK or German FAG brand, and all three axes adopt ball screw special bearings to reduce thermal deformation and improve stability.
7. The machine finally undergoes laser interferometer inspection and laser circular inspection for high quality circular cutting, faster displacement, finer positive and negative processing segment difference, more efficient cutting than traditional milling machine.



4. Technical parameters

Subject	Specification	Unit	YSH-800D-Double worktable
Travel	X/Y/Z-axis	mm	1300/800/800
	Spindle Nose to worktable	mm	250-1050
	Spindle center to Column	mm	110-910
	Three-Axis Guideway		Roller guide
Worktable	Worktable Size (LW)	mm	800*800
	Maximum Table Load	kg	1500
	Table Screw	No/mm	1°*360
	T-Slot		615
	Number of Pallet	mm	1100
Spindle	Spindle Type (Model number /	mm	BBT50
	Spindle Speed	rpm	6000
	Maximum Spindle Speed	rpm	5000
	Spindle Drive Type		Belt
Feedrate	Rapid Traverse(X/Y/Z)	m/min	36/36/30
	Cutting Feedrate (X/Y/Z)	mm/min	10000
Tool Changer (Select Configuration)	Automatic Tool Changer		Umbrella tool magazine
	Type of Tool Shank	type	BBT50
	Tool Storage Capacity	tools	40
	Max. Tool Diameter (Adjacent)	mm	125
	Max. Tool Diameter (Empty)	mm	250
	Max. Tool Length	mm	450
	Max. Tool Weight	kg	25
	Tool Change Time	sec	4.5
Motor	Spindle Motor	Spindle	Biip30/8000
	Three-Axis Servo Motor	kw	Bis30/2000/Bis30/2000/Bis30B/2000+BIS22/2000*2
	Cutting water pump motor	m/h-m	4-60
Accuracy	Accuracy	mm	±0.005
	Repeatability	mm	±0.003
Power Required	Power Requirement	kva	35
	Air Pressure Requirement	Kg/cm	6~8
Other	External Dimensions (L/W/H)	mm	7000*5265*3120
	Gross Weight	t	21.5

5. List of main accessories

No.	Name	Quantity	Manufacturer	Specification Model
1	CNC system	1 set	Japan FANUC	OI-MF-Plus
2	Spindle servo motor	1 set	Japan FANUC	Biip30/8000
3	X, Y, Z servo motor + A axis + exchange axis	1 set	Japan FANUC	Bis30/2000/Bis30/2000/ Bis30B/2000+BIS22/2000*2
4	Spindle front bearing	1	Japan KOYO	7020*4
5	Spindle rear bearing	1	Japan KOYO	7020*2
6	X, Y, Z axis screw bearings	1	Japan NSK	40TAC72
7	X,Y,Z axis ball screw	1	THK Japan	Ø50*P16*C3/Ø50*P16 *C3/Ø50*P12*C3
8	X-axis linear guide	2	THK Japan	SRG55LC-2pcs*2 slider
9	Y-axis linear guide	2	THK Japan	SRG55LR-2pcs*2 slider
10	Z-axis linear guide	2	THK Japan	SRG55LR-2pcs*2 slider
11	Spindle unit	1	YANGSEN	BBT50/190
12	Tool magazine (optional)	1	Okuda	40T
13	Cutting fluid pumps	1	YANGSEN	LDPB4V-60-1350W
14	Automatic lubrication system	1	Japan Positive Sum	4L
15	Main pneumatic components	1	Japan SMC	
16	Main electrical components	1	Schneider	
17	Main drive toothed belt	1	Gates USA	
18	X, Y, Z axis coupling	1	Japan NBK	
19	Heat Exchangers	1	Ouye	
20	Hydraulic station	1	Taiwan	
21	Chip conveyer unit	1		2 screws + 1 chains
22	Oil and water separator	1		Φ300

If the supplier cannot supply, it will be replaced with the brand of the same quality.

6. Standard accessories

No.	Name	No.	Name
1	Fully enclosed shroud	13	Warning light (with buzzer)
2	Automatic lubrication system	14	Footer blocks
3	Tool box	15	Network transfer and CF card function
4	Work Light	16	Rigid tapping
5	Electrical box heat exchanger	17	Portable chip blowing air gun
6	Spindle air curtain dust protection system	18	Machine cleaning water gun
7	Spindle ring outlet		
8	Iron cutter and chip storage box		
9	M30 automatic power-off device		
10	Twin Screw Chip Conveyor		
11	Chain plate chip conveyor		
12	Machine cleaning water gun		

7. Optional accessories

No.	Name	No.	Name
1	Siemens, Mitsubishi CNC systems and other CNC systems	8	
2	Spindle oil cooling device	9	
3	Three-axis optical scale	10	
4	Electrical cabinet thermostat control device (air conditioning)	11	
5	Chip fluid water cooling device	12	
6	Automatic tool inspection device	13	
7	Oil mist recovery system	14	

If users choose other special configurations, need to contact with the technical department.

8. List of random tools and document

No.	Name	Specifications or markings	quantity	Remark
1	Allen key	1.5---10	1	
2	Screwdriver	Flathead	1	
3	Screwdriver	Phillips	1	
4	Thread seal tape		2	
5	Glass cement	Porcelain white	1	
6	Manual Pulse Generator		1	
7	Card Reader		1	
8	Memory card		1	
9	Data cable	5 meters, 20 meters	2	
10	Bail wire		1	
11	Screw		1	
12	Triode		1	
13	Corrugated pipe joints		1	
14	Hold-all		1	
15	Foundation bolt		6	
16	Instruction book		1	
17	Certificate of conformity		1	



9. Installation, testing, training and inspection:

1. Installation and commissioning: After the machine tool reach the customer factory, our service engineer will go to the customer factory in time and conduct installation, debugging and on-site training.
2. Customers can choose to send operators to the company to be responsible for the early training for about a week, and the company will provide working meals, transportation expenses and accommodation at their own expense. Then the company in the customer installation and debugging field training.
3. acceptance: precision acceptance, according to the supplier to provide the factory accuracy inspection table, in the customer conditional inspection, inspection, to do not have the inspection conditions of inspection items, such as positioning accuracy, spindle cone hole accuracy inspection rod test, not in the buyer, or negotiate by the buyer to the supplier factory for testing acceptance.

10. After-sales service concept:

1. Pre-sale service: Yangsen's sales team will provide users with the best processing solutions, including machine tool selection, option configuration, tool and fixture selection, lubricating oil, cutting fluid management and other series of services. And can provide turnkey works.
2. Repair reaction time: Our company has a service team of up to 100 people, and equipped with a complete service vehicle, after receiving the user notice, the response within 2 hours.
3. Parts inventory: Yangsen has a special production workshop and parts inventory in Xiamen, strong strength, complete inventory, commonly used parts inventory in each office, to provide users with the fastest maintenance parts.
4. Machine maintenance: All the machine tools within the warranty period enjoy free maintenance service, and the machine tools outside the warranty period can be purchased at an economical and reasonable price. And according to customer needs, planning equipment management, maintenance process.
5. Charge for maintenance after the warranty period: The charge standard is clear, only the cost, to open, fair, fair concept service users.
6. Special old user service department: Closely track the use of machine tools and handle maintenance complaints in time.
7. Maintenance supervision: The general manager is also the director of the after-sales service department to supervise the maintenance service quality in real time and protect the rights of customers.



11. Working conditions of machine tools

1. Three-phase AC power supply: 380V ± 10%, -15%; 50Hz ± 1Hz
2. Ambient temperature: 8~40C
3. Relative humidity: 80%
4. Pressure of air source: 0.6 ~ 0.8 MPA

Xiamen Yangsen CNC Equipment Co., Ltd.

The company's products are constantly developed and improved, and the specifications may be changed without notice. Some pictures in this material may include a selection item.

This information picture is for reference only, subject to the actual product. We will be as accurate as possible, but we are not responsible for errors or missing information.

Quotation

No	Model	Product type	No.	Unit Price FOB Xiamen (RMB)	Total Price FOB Xiamen (RMB)	Specifications
1	YSH-800 D	Horizontal Machining Center	1	1,300,000	1,300,000	As the above information

** Pricing does not include installation fee.

Other conditions:



1. Payment terms (T/T) : After the confirmation of the order the customer must pay deposit of 50%, before the shipment of the machine the customer will be responsible of the payment for the 50%. Or 100% irrevocable L/C on order placement. The supplier will give one-year warranty on parts and controller unless it is damaged by human error.

2. Delivery method: FOB XIAMEN Port

3. Delivery time: **one machine 65-700 DYAS**

4. Packing method: Standard export packing, this machine will fit 4 SETS in 1 * 40 container.

Warranty

- Warranty period for machine parts is 12 months

Total Pricing Per Unit (in USD):

Details, please refer to pricing above.

Buyer

Seller

By signing above the seller and the buyer agree on all price, terms, and conditions listed within this document