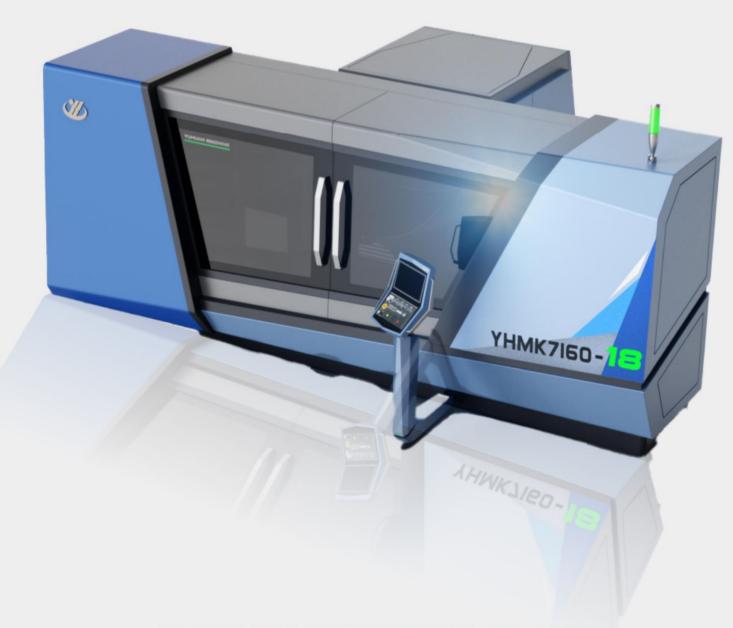
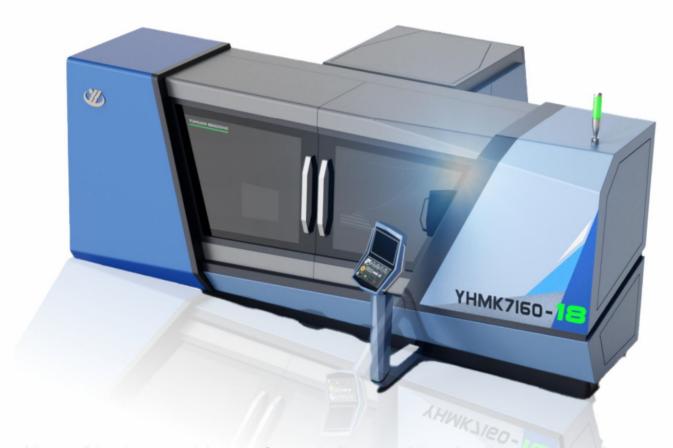


YHMK7160 PRECISION CNC HORIZONTAL AXIS RECTANGULAR TABLE SURFACE GRINDING MACHINE



YUHAN CNC MACHINE TOOL CO., LTD.

YHMK7160 PRECISION CNC HORIZONTAL AXIS RECTANGULAR TABLE SURFACE GRINDING MACHINE



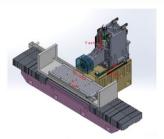
This Machine is a precision surface grinding machine that uses the periphery or end face of the grinding wheel to grind the workpiece. It is widely used in hydraulic parts, automobiles.

ITEM		UNIT	YHMK 7160×18
	Working Table(Width×Length)	mm	600×1800
Working Capacity	Maximum Longitudinal Travel	mm	2000
	Maximum Cross feed Travel	mm	600
	Maximum Spindel Vertical Travel	mm	550
	Max Distance : Table to Spindle Center	mm	700
	Max ProcessingHeight (including suction chuck)	mm	500
	Max. Loading capacity of table (include suctionchuck)	kg	2000
Grinding Wheel	Size of Grinding Wheel	mm	400*20-75*127
	Spindle speed	rpm	500-1450
Longitudinal Travel	Workbench speed	m/min	0-20
Crossfeed Travel	Crossfeed Travel Crossfeed Travel fast forward speed		0-1200
Spindel Vertical Travel	el Vertical Travel Spindel Vertical Travel fast forward speed		0-1200
Motor	Spindle motor	KW	15
	Longitudinal Travel servo motor	KW	1.2
	Vertical Travel servo motor	KW	1.7
	Net Weight of Machine (Approx.)	kg	11000
	Gross Weight of Machine (Approx.)	kg	12000
	Working Accuracy	mm	0.002/300

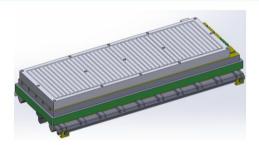
Specifications of other models avaliable upon request.

STRUCTURE INTRODUCTION

Surface grinder axis system

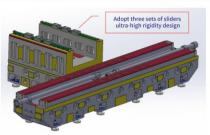


- Using a moving column structure, the left and right columns of the workbench, the front and rear grinding heads move up and down independently.
- Machine tool structure workbench



- ▶ Double V rail with plastic-coated hard rail design to ensure better straightness.
- ▶ Electron-magnetic table. No power is supplied during work to avoid the impact of the heat generated by the permanent magnet on the accuracy of the workbench.

► Machine tool structure - bed parts



- All important supporting parts such as the bed, worktable, column and spindle box are made of HT300 high-grade cast iron.
- ► Machine tool components-Column parts



➤ The adoption of a moving column design suitable for processing large workpieces greatly increases the load capacity of the machine tool. Even when the table moves the whole way, the workpiece does not hang, so stable processing can be achieved.

ACCURACY STANDARD

SERIAL NUMBER	INDEX	ORDINARY LEVEL	PRECISION GRADE	HIGH PRECISION LEVEL	YUHUAN CNC
1	Workbench flatness a. X direction; b. Z direction.	a) 0.01/1000 0.005/any 300 b)0.006/600	a) 0.008/1000 0.004/any 300 b)0.005/600	a) 0.006 /1000 0.003/any 300 b)0.004/600	a) 0.005/1000 0.01/2000 0.003/any 300 b)0.003/600
2	Work surface facing a. Parallelism of worktable movement (X direction); b. Parallelism of the grinding head's forward and backward movement (Z direction).	a) 0.012/1000 0.005/any 300 b)0.006/600	a) 0.008/1000 0.005/any 300 b) 0.005/600	a) 0.006/1000 0.005/any 300 b) 0.004/600	a) 0.005/1000 0.003/any 300 b)0.003/600
3	Straightness of table longitudinal movement (X-axis) in a vertical plane;	0.01/1000 0.006/any 300	0.008/1000 0.005/any 300	0.006/1000 0.004/any 300	0.005/1000 0.003/any 300
4	Spindle taper runout	0.005	0.003	0.002	0.001
5	Working accuracy: After grinding the test block, measure the entire The thickness of the standard test block (etc.high)	5-point inspection on the entire countertop 0.01/1000 0.005/300	5-point inspection on the entire countertop 0.008/1000 0.003/300	5-point detection on the whole table 0.006/1000 0.002/300	13 points detection on the whole table 0.006/1000 0.002/300

OPERATIONAL ADVANTAGES

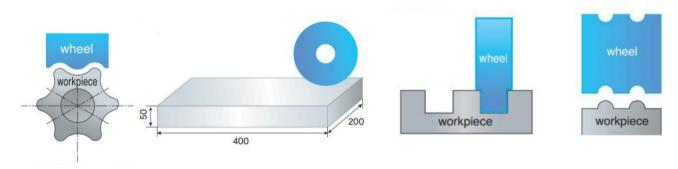
1.Handwheel for precise vertical micro-feed, driven by AC servo motor with minimum depth of cut of $0.1\mu m$.

2.Can be equipped with dresser and automatic compensation function, suitable for various materials, with automatic compensation for wheel dressing and automatic display of position on control panel.

3. Adaptable to various customer requirements, with automatic processing cycles and manual adjustment of processing conditions. Utilizes proprietary software system for easy setup of fully automatic cycles, digital confirmation of grinding conditions, and manual intervention capability.

4. High-precision positioning of vertical and horizontal axes, suitable for complex-shaped workpieces. 2-axis control enables precision grinding.

PROCESSING TYPE



TYPICAL MACHINING WORKPIECES



Hydraulic pump rotor outline surface



Vane pump rotor groove



High pressure oil pump three-sided cam



Rack And Pinion



Guide Rail

COMPANY INTRODUCTION

YUHUAN CNC Machine Tool Co. Ltd., a National Key Equipment Manufacturing Enterprise, and state certified Specialized Innovative" Little Giant" Enterprise, is specialized in the research and development, production, sales and services of CNC grinding machine, lapping and polishing machine and intelligent equipments, providing comprehensive solutions of precision grinding, polishing and intelligent manufacturing technology for the customers.

YUHUAN's technical team has dedicated in precision grinding and polishing for nearly 30 years. Through continuous independent innovation and technology accumulation, the company now has the industry leading independent R & D capabilities and core technology advantages. The products are exported tomore than 10 countries, including Korea, Japan, Russia, Thailand, Vietnam, India, winning the market's recognition and preference over international rivals. The company has constituted 3 scientific research and innovation platforms, i.e., Hunan CNC Precision Grinder Engineering Research Center, Hunan

Enterprise Technology Center, high-efficiency precision machining equipment for difficult-to-process materials and Hunan Engineering Research Center, and has won multiple national awards, including the CCMT" Chun Yan Award", and China Machinery Industry Science and Technology Award.

YUHUAN CNC will always adhere to its enterprise spirit of Responsibility first, innovation for the future, everlasting pursue for development, and take pride in dedication, and set our goal and mission to become cutting edge manufacturer, and revitalize national industry, always be aggressively innovative and forging ahead, to build the company's foremost reputation as an professional provider of precision grinding and intelligent manufacturing technology solutions, committing to become the pioneer of the industry.



COMPANY HISTORY

