

# YHM500/700/1000/1200 DOUBLE SIDE FINE GRINDING MACHINE



YUHAN CNC MACHINE TOOL CO., LTD.

# >>> YHM500/700/1000/1200 DOUBLE SIDE FINE GRINDING MACHINE



The Upper and Lower Grinding wheel as well as planetary carriers rotate simultaneously to drive work pieces into planetary motion between the two grinding wheels. Independent Variable Drive with simple and convenient operation, Customised processing solution to improve product capacity. High Precision Grinding of Flat Surface of metallic & Non Metallic parts such as Valve Plates. Hard Alloy, Bearings, Piston Rings, Carbide Blades, Ceramic, Glass, Magnetic Materials,

ITEM/MODEL	Unit	YHM530	YHM700	YHM720	YHM1000	YHM1200
Diameter of Grinding Wheel	mm	ø530	ø700	ø720	ø1000	ø1200
No. of Carriers	nos.	5	6	6	6	6
Workpiece Range (Max.)	mm	ø150	ø200	ø200	ø300	ø400
Thickness of Workpiece (Max.)	mm	30	40	40	100	100
Speed of Upper & Lower Wheel (Max.)	rpm	105	105	105	80	85
Speed of Inner Ring (Max.)	rpm	65	75	75	65	65
Spindle Power of Upper & Lower	kw	2 x 4	2 x 5.5	2 x 5.5	2 x 9.2	2x11
Power of Inner Ring Servo Motor	kw	2	2	2	3	5
Max Pressure	kgf	600	700	700	1000	1500
Electrical Connection	-	415 Volt, 3 Phase, 50 Hz				
Weight	kg	3000	4500	4500	6000	6500
Overall Dimension (L $\times$ W $\times$ H)	mm	1500 x 1700 x 2500	1800 x 1900 x 2500	1800 x 1900 x 2500	2500 x 2100 x 2700	2600 x 3000 x2300

# >>> FOUR PLANETARY MOTION TECHNOLOGY



#### ▶ EXTREMELY PRECISE GEOMETRIC ACCURACY AND SURFACE FINISH

Ultra High Precision can be achieved:

Flatness:<0.002 mm Parallelism:<0.002 mm

Surface Finish: <0.2 Ra Material Removal: 0.6~0.8 mm

## ▶ Dressing Wheel:

Used To achieve the accuracy requirements, When CBN or Diamond Wheel sefficiency becomes lower then same can be corrected by dressing.

## ▶ Loading Table:

As per the Production Capacity and Customer requirements Semi-Automatic and Automatic Loading and Unloading Device can be configured (Optional Accessories).

#### Carrier Plate:

Can be designed as per the component shape and size Carrier plates hold the component during the planetary grinding motion.



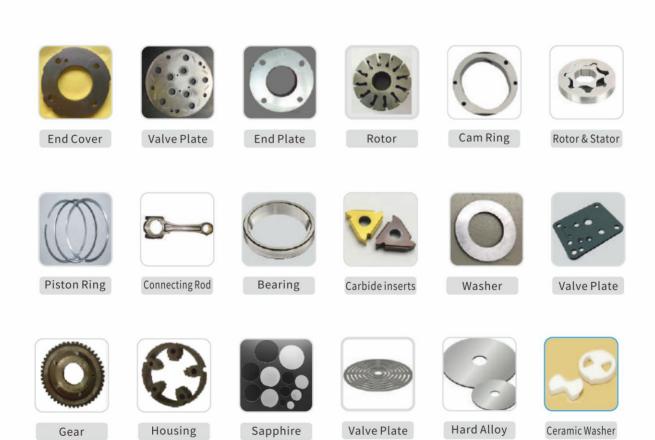




# >>> MAIN FFATURES

- ► High strength cast iron machine body ► Uniform coolant distribution thru
  - upper disc
- ▶ Three independent variable speed for ▶ Precision non contact probe Upper disc, Lower disc and Inner ring
- Upper grinding head swing, manually or automatically
- ▶ Constant temperature cooling and filtering system
- High precision pneumatic pressure
- PLC and touch screen control interface
- Digital size control system
- Strong fault diagnosis function
- Inner ring drive via servo motor
- Simple and convenient operation
- Customized processing solution

# >>> TYPICAL MACHINING WORKPIECES



# 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**

