

## Application Industry ▶



### FOUNDRY MOLD INDUSTRY

**Materials:** Wood, Plastic, EPS, Sand, Carbon Fiber Foam, Fiberglass, Aluminum, Aluminum Alloy, Composite Materials, etc.

**Products Used:** Casting molds for Various pump bodies, valves, sand molds, etc.



### AUTOMOTIVE INDUSTRY

**Materials:** Wood, Plastic, Carbon Fiber, Fiberglass, Sludge, Foam, Aluminum, Aluminum Alloy, Composite Materials, etc

**Products Used:** Car bumpers, Sunroof Guide Rails, Car Luggage Racks, Sheet Metal Parts, etc



### NEW ENERGY INDUSTRY

**Materials:** Plastic / Aluminum / Aluminum Alloy Products

**Products Used:** New energy battery box, battery tray, etc



### AEROSPACE INDUSTRY

**Materials:** Wood, Carbon Fiber Foam, Fiberglass, Aluminum, Aluminum Alloy, Composite Materials, etc

**Products Used:** Military confidential products, trusses, flat parts, multi-cavity parts, ultra-thin-walled bulkheads, etc



### WIND POWER INDUSTRY

**Materials:** Wood, Fiberglass, Aluminum, Aluminum Alloy, Composite Materials, etc

**Products Used:** Blade Mold, Nacelle Cover Mold, etc

## User Case ▶



## Company Profile: ▶



### CHENcan (Shandong) production base

CHENcan Machinery is a national-level high-tech enterprise integrating R&D, production and sales. Founded in 1998, be one of the well-known manufacturers of five-axis linkage machining centers in China, and was selected in the 2017 and 2019 "Shandong Province's first (set) Technical Equipment and Key Core Components" production enterprise directory. CHENcan CNC complete the reorganization in Nov 2014 and officially listed in Qingdao Blue Ocean Stock Trading Center in Dec 2014 (Stock Name: Chencan Machinery, Stock Code: 800162).



### CHENcan (Jiangsu) production base

H&H is committed to the research and development, production, sales and service of professional five-axis linkage intelligent processing equipment and intelligent automatic welding equipment. The smart equipment project has a total investment of RMB 150 million and covers an area of 35000 square meters.

## ■ Applications

Based on high-degrees manufacturing and research and development of three-axis & five-axis linkage machining centers, composite panel sawing machining centers, and FDM industrial-grade 3D printers. We has rich experience in the application of five-axis machine tools and has become a mature multi-axis machine manufacturer in China. All products be widely used in the high precision CNC machining needs of different fields such as rail transit, aviation, aerospace, automobiles, ships, yachts, medical care, wind power, molds, landscape sculptures and other mold mould making.

## Company Advantage ▶



晨灿机械  
CHENcan machine

Survive by Quality  
Develop by Credit



WeChat



WhatsApp

**Export Company:** Shandong PEF Machine Tool Co.,Ltd  
**Add:** Rm.2433-h3, Aosheng building, No.1166 Xinluo street, Jinan area of China (Shandong) pilot free trade zone

**Production Base:** Shandong Chencan Machinery Incorporated Company  
**Add:** West Ming Jia road, Qihe economy development zone, Dezhou city, Shandong province, China.

**Production Base:** Chenhechen Intelligent Equipment (Jiangsu) Co., Ltd  
**Add:** No.21 of Ningbo road, Shihong economic development zone, Suqian city, Jiangsu province, China

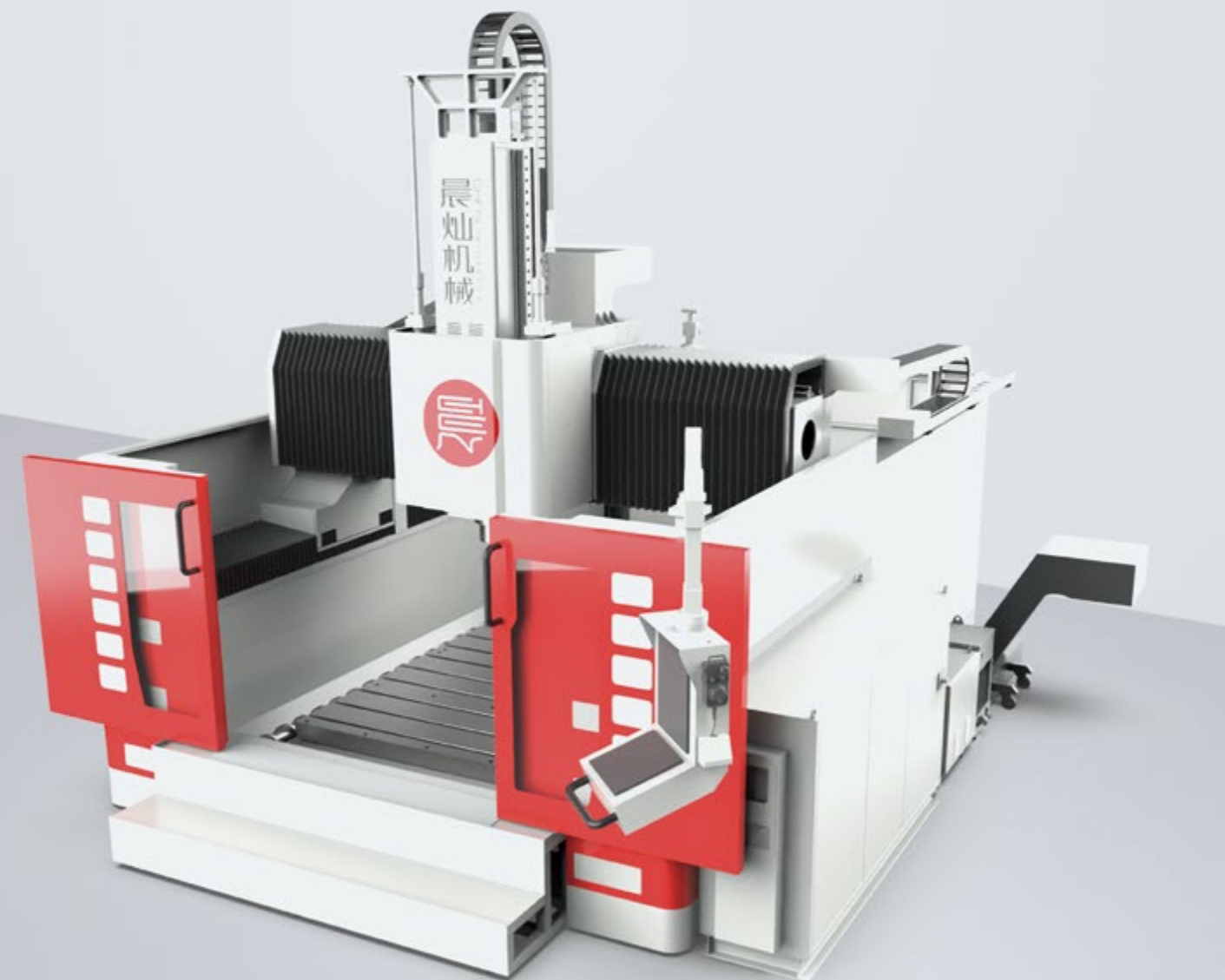
**WhatsApp:** +86 187 5347 5557  
**Skype ID:** chencancnc  
**WeChat ID:** 18753475557  
**Facebook ID:** chencancnc  
**Instagram ID:** chencancnc  
**YouTube Keywords:** chencan cnc  
**Website:** www.chencancnc.com  
**Email:** info@chencancnc.com

CHENcan Machine has the right to change the appearance, structure, type and price of all equipments, subject to change without notice.



Committed to offer a high degree of process reliability and individual solutions for customers in completely different sectors

Stock Code: 800162



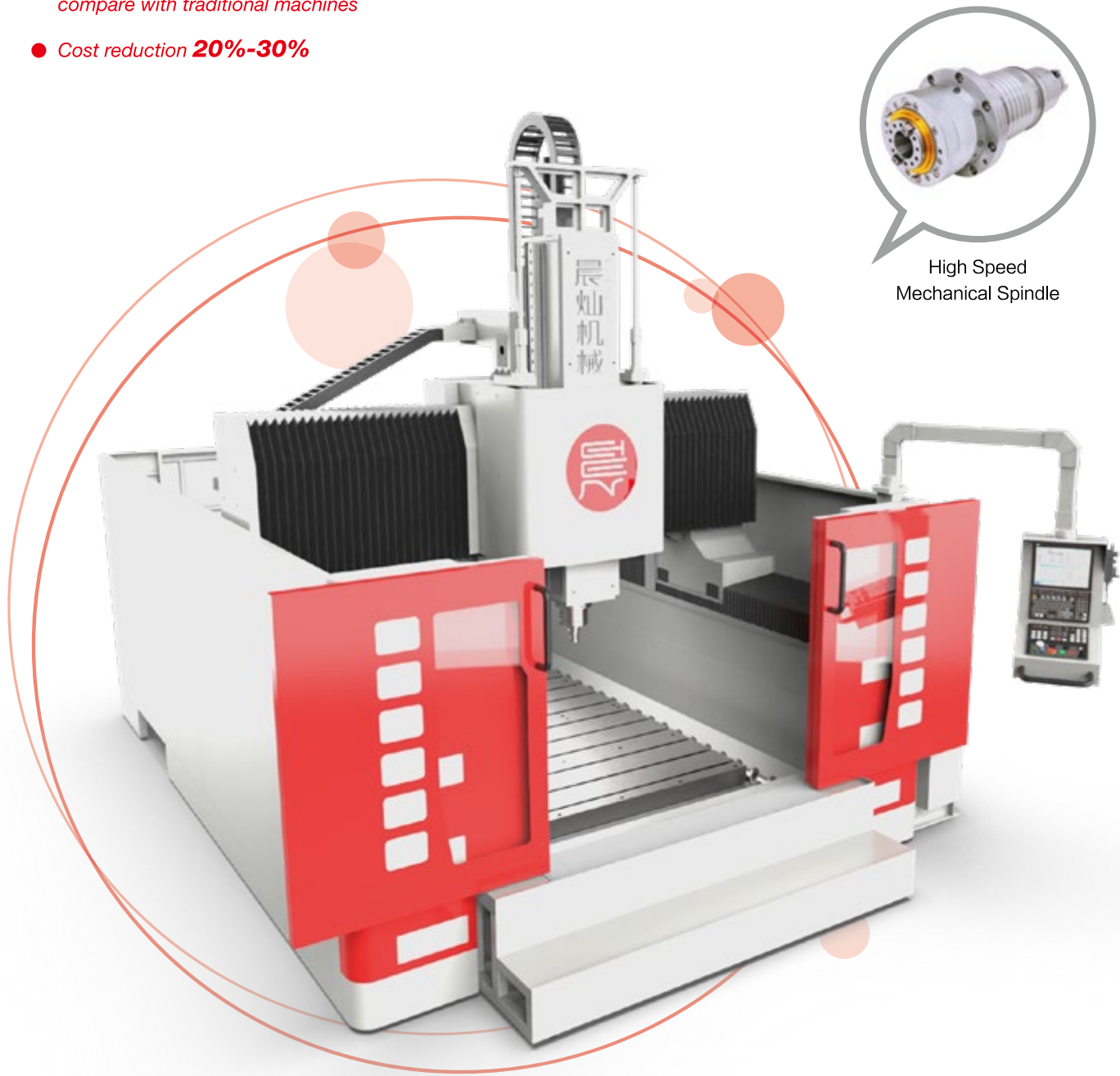
▶ New Soft Metal / Metal High Speed Portal CNC Mold Machining Center



## New Soft Metal / Metal High Speed Portal CNC Mold Machining Center ▶

● *Machining efficiency is increased by **3-5** times compare with traditional machines*

● *Cost reduction **20%-30%***



### ■ Applicable materials:

It is suitable for high-speed machining of various aluminum, aluminum alloy, cast iron, brass and other metal materials as well as non-metallic materials.

### ■ Feature:

- It has the processing functions of engraving and milling, drilling, spot facer, boring, tapping, etc.
- Taiwan mechanical spindle is adopted, which is suitable for large torque and heavy processing operations.
- Can choose to configure metal cutting industry famous brand Fancu or Siemens CNC system.
- Moving beam design structure, large processing range and high processing precision.
- Equipped with automatic tool change magazine, the number is random.
- Equipped with spindle blowing, cutting fluid cooling and water circulation device.
- The main shaft can be equipped with central water outlet function.
- Equipped with screw + chain automatic chip removal machine, cleaning is fast.
- Users can select models of different specifications according to their own needs. Common models include: SM1010/SM1610/SM1616/SM2020/SM2520/SM3020/SM4020/SM2525/SM3025/SM4025/SM3030/SM4030/SM6030, etc.

### ■ Technical Patameter:

Project	SM2020		SM2520		SM3020		SM4020		SM3025		
Stroke Size											
X Stroke Size (mm)	2000	2000	2500	2500	3000	3000	4000	4000	3000	3000	3000
Y Stroke Size (mm)	2000	2000	2000	2000	2000	2000	2000	2000	2500	2500	2500
Z Stroke Size (mm)	600	800	600	800	600	800	600	800	600	800	1000
Distance from Spindle Nose to Table (mm)	100-700	100-900	100-700	100-900	100-700	100-900	100-700	100-900	100-700	100-900	100-1100
Work Table											
Work Table Size (mm)	2000×2000	2000×2000	2500×2000	2500×2000	3000×2000	3000×2000	4000×2000	4000×2000	3000×2500	3000×2500	3000×2500
Work Table Load (t)	2	2	2.5	2.5	4	4	4	4	4	4	4
T Slot (Width-Space-No.)	22-210-10	22-210-10	22-210-12	22-210-12	22-210-14	22-210-14	22-210-18	22-210-18	22-210-14	22-210-14	22-210-14
Feed Speed											
Max Working Speed X/Y/Z (m/min)	20 / 20 / 10	20 / 20 / 10	20 / 20 / 10	20 / 20 / 10	20 / 20 / 10	20 / 20 / 10	20 / 20 / 10	20 / 20 / 10	20 / 20 / 10	20 / 20 / 10	20 / 20 / 10
Max Rapid Speed X/Y/Z (m/min)	35 / 35 / 12	35 / 35 / 12	35 / 35 / 12	35 / 35 / 12	35 / 35 / 12	35 / 35 / 12	35 / 35 / 12	35 / 35 / 12	35 / 35 / 12	35 / 35 / 12	35 / 35 / 12
Spindle servo motor											
Max Spindle Speed (rpm) *	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000
Max Spindle Motor Power (Kw)	10	10	10	10	10	10	10	10	10	10	10
Max Spindle Motor Torque (N.m)	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
Spindle Cone	BT40	BT40	BT40	BT40	BT40	BT40	BT40	BT40	BT40	BT40	BT40
Tool Magazine											
Tool Magazine Capacity (T) *	12	12	12	12	12	12	12	12	12	12	12
Max Tool Diameter (mm)	Φ65	Φ65	Φ65	Φ65	Φ65	Φ65	Φ65	Φ65	Φ65	Φ65	Φ65
Max Tool Length (mm)	250	250	250	250	250	250	250	250	250	250	250
Max Length Weight (kg)	8	8	8	8	8	8	8	8	8	8	8
Precision											
Positioning Accuracy XY/Z (mm/m)	0.025 / 0.025 / 0.015		0.027 / 0.025 / 0.015		0.028 / 0.025 / 0.015		0.031 / 0.025 / 0.015		0.028 / 0.027 / 0.015		
Repeatability X/Y/Z (mm/m)	0.013 / 0.013 / 0.01		0.015 / 0.013 / 0.01		0.016 / 0.013 / 0.01		0.019 / 0.013 / 0.01		0.016 / 0.015 / 0.01		
Others											
Air Pressure (kgf/cm <sup>2</sup> )	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
Total Power (KVA)	21	21	21	21	21	21	21	21	21	21	21
Gross Weight (T)	9.5	10	10	10.5	11	11.5	12	12.5	16	16.5	17
Land Size L*M (mm)	4600×4700	4600×4700	5100×4700	5100×4700	5600×4700	5600×4700	6600×4700	6600×4700	5600×5200	5600×5200	5600×5200
Machine Height (mm)	3600	4000	3600	4000	3600	4000	3600	4000	3600	4000	4400

### ■ Equipment accessories:

Control System: Huazhong 818	●	Standard Accessories & Related Documents	●
Servo Drive: Huazhong Servo	●	Tool Magazine (12T)	●
Roller Linear Guide Rail	●	Common Maintenance Tools	●
Direct Connect BT40-12000 Mechanical Spindle	●	Equipment Pads and Leveling Bolts	●
Constant Temperature Drive System	●	Control System: FANUC OiMF Plus	○
Z Axis Hydraulic Balance System	●	Control System: Siemens 828	○
Cabinet Cooling System	●	Center Outlet Spindle	○
Pneumatic & centralized lubrication System	●	Direct Connect BT40-15000 Mechanical Spindle	○
Tool Cooling System	●	Direct Connect BT50-8000 Mechanical Spindle	○
Tricolor & Lighting Lighting	●	Around Protection	○
Chip Removal System	●		

Note: ● Standard Configuration    ○ Optional Configuration

### ■ Finished parts:

