

Application Industry ▶



MOLD INDUSTRY

Materials: Wood, Plastic, EPS, Carbon Fiber Foam, Fiberglass, Composite Materials, etc.

Products Used: Casting molds for various pump bodies, valves, etc.



AUTOMOTIVE AND MARINE INDUSTRY

Materials: Wood, Carbon Fiber, Fiberglass, Sludge, Foam, Composite Materials, etc.

Products Used: Motor Cover, Car bumpers, Gearbox, etc.



LANDSCAPE SCULPTURE INDUSTRY

Materials: Wood, Plastic, EPS, Carbon Fiber Foam, Fiberglass, Composite Materials, etc.

Products Used: Garden Landscape, Architectural Decoration, Sculpture Molds, 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

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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

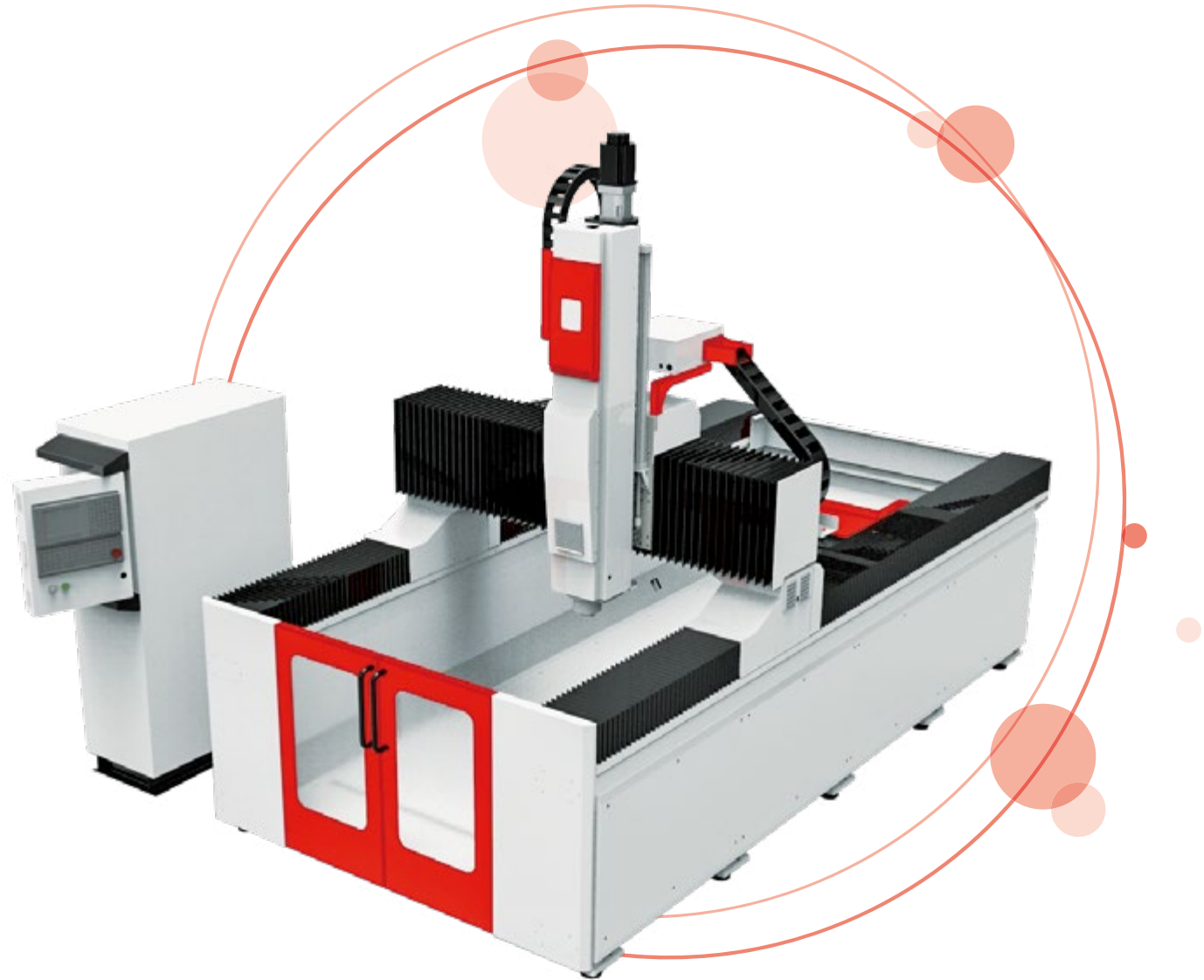
Stock Code: 800162



▶ High Speed Portal CNC Mold Machining Center

High Speed Portal CNC Mold Machining Center ▶

- *Machining efficiency is increased by **3-5 times** compare with artificial.*
- *Cost reduction **30%-50%***



■ Applicable materials:

Wood, foam, substitute wood, acrylic, fiberglass, rubber, resin, carbon fiber, glass fiber, gypsum, sludge, polymer composite materials and non-metallic carbonized mixtures.

■ Feature:

- It has the processing functions of engraving, milling, drilling, boring, etc.
- Adopt Taiwan BT40 mechanical spindle, which is suitable for high-torque processing operation and no need to pick up nails when work for wooden molds.
- The original triangular beam balance structure, combined with the Z-axis balance cylinder device, ensures fast and stable processing of multi-curved surfaces.
- Widely used in the non-metallic mold processing industry, such as the precision manufacturing of various casting wood molds, sand molds and EPS foam lost foam for various automobiles, ships, aerospace, medical treatment, etc., and can also be used for the R&D and production of automotive interior and architectural decoration materials.
- Users can select models of different specifications according to their own needs. Common models include BS1325/BS3015/BS4020/SF3015/SF3020/SF4020/SF5030/SF6040/SF7050, ect...

■ Technical Patameter:

Project	BS1325	BS1530	BS2030	SF3012	SF3020	SF4020	SF5030	SF7050
Stroke Size				Stroke Size				
X Stroke Size (mm)	1300	1500	2000	3000	3000	4000	5000	7000
Y Stroke Size (mm)	2500	3000	3000	1200	2000	2000	3000	5000
Z Stroke Size (mm)	600	800	1000	800	1000	1000	1200	1500
Distance from Spindle Nose to Table (mm)	100~700	100~900	100~1100	100~950	100~1150	100~1150	100~1350	100~1650
Work Table				Work Table				
Work Table Type	Aluminum T Slot Table	Iron Table	Iron Table	Iron Table	Steel Table with T slot	Steel Table with T slot	Steel Table with T slot	Steel Table with T slot
Work Table Size (mm)	1300×2500	1500×3000	2000×3000	1500×3000	2000×3000	2000×4000	3000×5000	5000×7000
Work Table Load (T)	1.6T	1.8T	2.4	1.8T	3T	4T	7.5T	17.5T
Feed Speed				Feed Speed				
Max Working Speed X/Y/Z(m/min)	20/20/8	20/20/8	20/20/8	30/30/15	30/30/15	30/30/15	30/30/15	30/30/15
Max Rapid Speed X/Y/Z(m/min)	40/40/15	40/40/15	40/40/15	55/55/20	55/55/20	55/55/20	55/55/20	55/55/20
Spindle				Spindle				
Spindle Type	Electronic Spindle	Electronic Spindle	Electronic Spindle	Mechanical Spindle BT40-120	Mechanical Spindle BT40-120	Mechanical Spindle BT40-120	Mechanical Spindle BT40-120	Mechanical Spindle BT50-150
Max Spindle Speed (rpm)	24000	20000	20000	10000	10000	10000	10000	8000
Max Spindle Motor Power (Kw)	9	7.5	7.5	5.5	5.5	5.5	5.5	7.5
Spindle Cone	ISO30	BT40	BT40	BT40	BT40	BT40	BT40	BT50
Max Tool Diameter (mm)	Φ25	Φ32	Φ32	Φ32	Φ32	Φ32	Φ32	Φ40
Max Tool Length (mm)	200mm	300mm	300mm	300mm	300mm	300mm	300mm	350mm
Max Length Weight (Kg)	3kg	5kg	5kg	5kg	5kg	5kg	5kg	6kg
Precision				Precision				
Positioning Accuracy X/Y/Z (mm/m)	0.07/0.05/0.03	0.07/0.05/0.03	0.07/0.05/0.03	0.05/0.03/0.02	0.05/0.03/0.02	0.05/0.03/0.02	0.05/0.03/0.02	0.05/0.03/0.02
Repeatability X/Y/Z (mm/m)	0.05/0.03/0.02	0.05/0.03/0.02	0.05/0.03/0.02	0.03/0.02/0.01	0.03/0.02/0.01	0.03/0.02/0.01	0.03/0.02/0.01	0.03/0.02/0.01
Others				Others				
Air Pressure (kgf/cm ²)	0.6~0.7	0.6~0.7	0.6~0.7	0.6~0.7	0.6~0.7	0.6~0.7	0.6~0.7	0.6~0.7
Total Power (KVA)	20	20	20	18	18	18	18	38
Gross Weight (T)	2.5	3.5	4	3.5	8	9	12.5	27
Land Size L×M (mm)	4150×2250	4650×3160	4650×3700	4500×3500	4500×3800	5500×3800	7000×5000	10000×7800
Machine Height (mm)	2550	2950	3600	3300	4050	4050	4050	5300

■ Equipment accessories :

Control System: Huazhong 808D	●	Standard Accessories & Related Documents	●
Servo Drive: Huazhong Servo	●	Common Maintenance Tools	●
Taiwan Linear Guide Rail	●	Equipment Pads and Leveling Bolts	●
High Precision Ball Screw for XYZ	●	Control System: Taiwan Syntec	○
Z Axis Hydraulic Balance System	●	Direct Connect BT50-8000 Mechanical Spindle	○
Cabinet Cooling System	●	Tool Magazine (8T)	○
Pneumatic & centralized lubrication System	●	Safety Light Curtain Protection	○
Spindle Cooling System	●	4th Rotary Axis	○
Tricolor & Lighting Lighting	●	Around Protection	○

Note: ● Standard Configuration ○ Optional Configuration