

TECHNICAL PROPOSAL

IGW-5GM

FIVE AXIS MACHINING CENTER



● Product introduction

5 axis linkage machining center is a kind of high technology content, high precision, the whole machine adopts high quality components. Can realize a variety of complex, heavy processing. Adopt moving gantry and fixed table structure, large flexibility, a wide range of processing. Good at space surface processing, special-shaped processing, hollow processing, punching, oblique drilling, chamfering, etc., the working speed, traveling speed, cutting speed can be independently controlled, greatly improving productivity.

Widely used in aerospace, military scientific research, precision machinery, high-precision medical equipment, normal manufacturing and other fields.

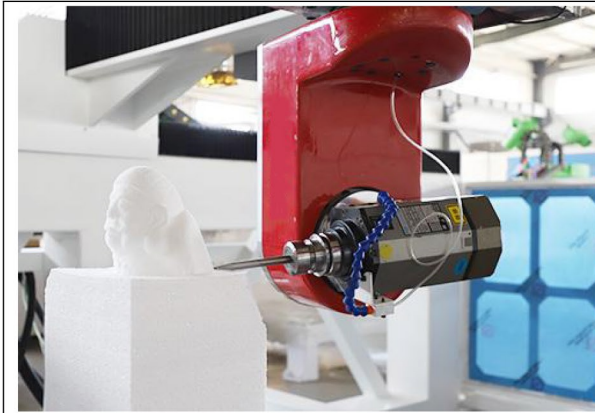
● Product Photography



● Product Parameter

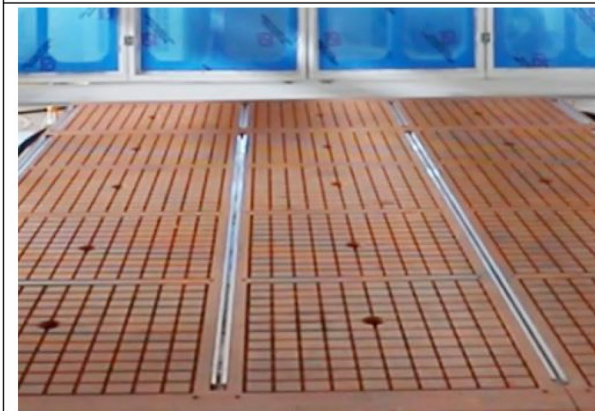
Technical indicators	parameter
Model	iGW-5GM
Bed frame	Heavy duty welding bed
Beam	Steel beams
Route	6000x1000x1000 mm
Five-axis head	DEMAS (with 360 degree rotation)
Spindle	water-cooled spindle
System	Taiwan SYNTEC five-axis system
Cabinet	iGOLDEN independent cabinet
Driver	Japan Yaskawa 1.3KW drive motor
Reducer	SHIMPO
Inverter	FULING
Table	Vacuum adsorption table
Guide	30 TAIWAN XINIYUE
Lead screw	40 Lead screw
Rack	Taiwan T-WIN
Vacuum pump	7.5kw
Lubrication system	Automatic
Oil mist system	Yes

● CONFIGURATION INTRODUCTION



Demas five-axis head

360° processing, small vibration, low noise, long life.



Vacuum adsorption table with T - slot

Vacuum adsorption table, strong adsorption force, each area can be controlled separately; In addition to T slot, for different materials processing more convenient.



Disk tool change library

The number of knife storage can be increased according to different processes.



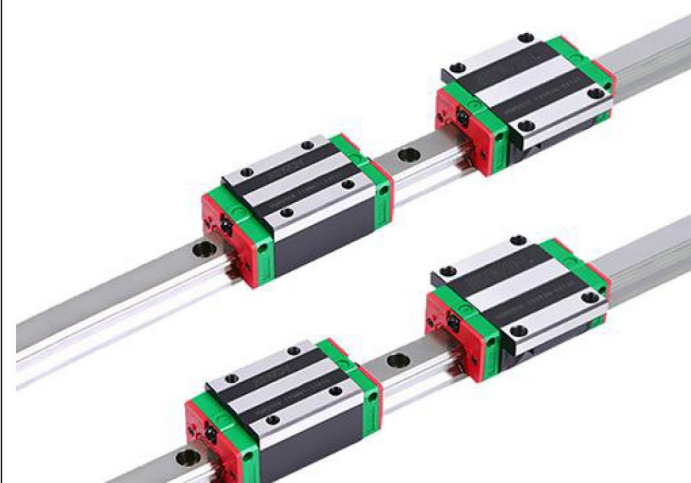
SYNTEC control system

IGOLDENCNC independent electric control cabinet, humanized design, Taiwan Syntec system, easy to operate.



Yaskawa servo motor

With rich internal position, internal speed and internal torque control functions, superior performance, reliable quality.



Taiwan Hiwin guide rail

Using Taiwan HIWIN guide rail and rack, high positioning accuracy, smooth sliding, reliable quality, long life.



SHIMPO reducer

Mute; High rigidity, high torque, precise positioning; Small wear, long service life.



Fuling inverter

More optimized function, more flexible application, more stable performance, higher performance and accuracy.

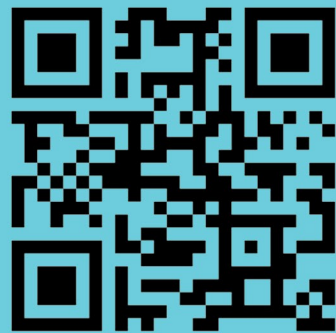
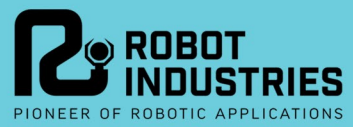
Advanced Performance

- Heavy welded steel frame and door frame to ensure the largest straightness and stiffness.
- With DE and five shaft head water-cooled spindle, 360 ° rotating processing, improve efficiency.
- With disc tool change device can automatic tool change, realize the processing procedures.
- Adopt vacuum adsorption + T slot workbench, fixed small size materials, conserve vacuum pump.
- Can process various materials, such as stone material, foamed plastic, wood, aluminum, etc., are widely used in the foam mould, wooden sculptures, aerospace model, disappear casting foam mould, dry hanging large sculpture, wedding decoration, outer wall, landscape engineering, large-scale sculpture, arts and crafts, etc.

● Samples

- Composites industry: plastic, glass fiber reinforced plastic parts, rubber products such as all kinds of composite materials of trimming, punching;
- Mould industry: five axis machining of glass steel mold, casting mold, resin products, sludge model and various kinds of non-metallic mold;
- Sanitary ceramics industry: five axis machining gypsum mold, five axis machining all kinds of gypsum products;
- Furniture industry: solid wood furniture 5 axis machining, all kinds of furniture tenon and mortise work piece of five axis machining, stair elbow five axis machining, five axis machining all kinds of furniture.





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