UNIVERSAL-408 4'x8' 4 Axis CNC ROUTER (Universal Spindle)

Six Inspection Services	1. Machine Gantry X Axis square rails Parallel vertical accuracy 0.001" (0.03mm)
	2. Y Axis square rails Parallel vertical accuracy 0.001" (0.03mm)
	3. Z Axis ball screw Parallel vertical accuracy 0.001" (0.03mm)
	4. Machine Re-position accuracy 0.001" (0.02mm)
	5. Machine working accuracy 0.002" (0.05mm)
	6. Grating ruler travel accuracy 0.002" (0.05mm)

Features:

- 4 Axis universal router head for 3 D production
- All "servo motor" driving system: All axis are driven by brush-less type, high torque AC servo motors.
- Syntec CNC controller is setup to accept standard G-code programming formats along with on board conversational applications.
- Optional CAD/CAM system can create and edit part programs then send to machine for easy cutting. DXF files can be imported, modified and edited from here to create a G-code.
- DNC is no longer required as the PC directly stores all part programs in a text editable file.
- Machine designed ready for 3-D cutting usage and superior performance.
- Moving gantry construction for space saving.
- The rigid steel frame construction has been stress relieved prior to finish machining to provide repeat-ability and accuracy.
- The HSD spindle uses CP4 DB bearings with a dust-free design. The heavy-duty fan cooling system forces air through the spindle to assist in trouble-free operation.
- Automatic frequency brake for the spindle allows rapid deceleration resulting in faster tool changes.
- Linear guides and sliding blocks are prismatic pre-loaded with recirculation bearings to ensure maximum rapid traverse and precision.
- The X & Y axis are equipped with a precision rack & pinion driving system.
- The Z axis utilizes a ball screw assembly complete with the pre-loaded and ground screw for long life and optimum accuracy.
- Special design 6 zone vacuum table surface for powerful hold down.

Specification

1	Control system	SYNTEC Control system
	Tool Change	**Automatic 8 pcs ISO30 Tools, Rotary Tool Quick Change**
	3 D Productive	**4 Axis with Universal 360 degree Spindle**
2	Spindle	12 HP (9 KW) air cooling, Quick Change, speed 6,000-24,000 rpm/min
3	Lathe frame	Heavy duty metal welding with quenching process
4	Table	6 zone Vacuum table
5	Driving system	Japan Yaskawa AC servo drive & motor & Japan SHIMPO Gear Box
6	X, Y Axis structure	Taiwan TBI or HIWIN Helical rack and pinion drive
7	Z Axis Structure	Taiwan TBI or HIWIN ball screw
8	X Y Z Axis Square rails	Taiwan HIWIN brand linear square rails
9	Inverter	11 KW Inverter
10	Electric parts	France Schneider
11	Limited switch	Japan Omron
12	Machine Cable	German Siemens OEM factory cable
13	Oil lubrication	Automatic control with filter
14	Machine working size	**UNIVERSAL-408;** X*51'', Y*98'', Z*12"
15	Machine Size (L x W x H)	**UNIVERSAL-408;** 122" x 98" x 98"
16	Machine Max. travel speed	2,350 IPM
17	Machine Max. working speed	1,100 IPM
18	Machine power	3 PH ,220 V ,53 AMP
19	Machine weight	UNIVERSAL-408; 5,020 lbs
20	Support Dictate Format	*.plt,*.dst,*.dxf,*.bmp,*.dwg,*uoo
21	Control switch	German Moeller
22	MPG Hand Wheel	Standard
23	Tool Length Device	Automatic
24	Pneumatic Table Position Cylinder	Standard 4 pcs
25	X Axis Safety Cover	Standard
26	Vacuum Pump	Option

Machine Apply Industry

- Woodworking industries: Three-dimensional wave plate processing, cupboard doors, wooden doors, window processing video game cabinets and panels,computer table and Plate furniture auxiliary processing.
- The advertising industry: Advertising signs, logo production, acrylic cutting, forming system module, a variety of materials advertising the production of decorative products.
- Die industry: A sculpture of copper, aluminum, iron and other metal molds, as well as artificial marble, sand, plastic sheeting, PVC pipe, wooden planks and other non-metallic mold.

Machine Processing Samples