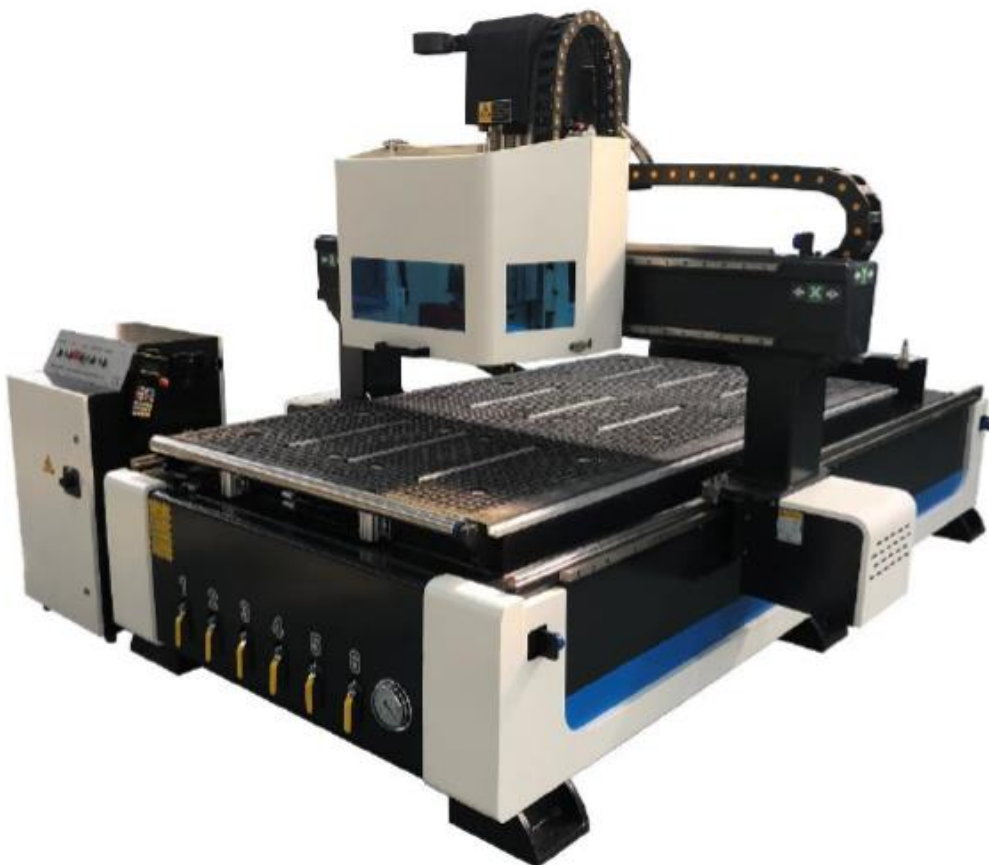




# Rapid 8R CNC 404/408/510



Castaly's Woodworking CNC Machine are perfect for:

- ❖ Three-dimensional wood processing
- ❖ Cupboard doors
- ❖ Wooden doors
- ❖ Window processing
- ❖ Video game cabinets
- ❖ Furniture processing
- ❖ Plastic processing
- ❖ Wood and plastic engraving

**Authorized Dealer:**

Global Sales Group, LLC  
P.O. Box 1835 \* Chico, CA 95927  
Toll Free: 877-474-5521  
Office: 530-893-2444  
[www.globalsalesgroupllc.com](http://www.globalsalesgroupllc.com)

## General Information

### General specs

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 0.004" (0.10mm)
6. Grating ruler travel accuracy 0.002" (0.05mm)

## Features

- ❖ Automatic 8 Tools linear type auto tool changer at rear table for increased productivity.
- ❖ All "servo motor" driving system: All axes are driven by brush-less type, high torque AC servo motors.
- ❖ DSP 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.
- ❖ Automatic frequency brake for the spindle allows rapid deceleration resulting in faster tool changes.
- ❖ Linear guides and sliding blocks are 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.

## Technical data

1-	Control system	Weihong NK105 G3
2-	Spindle	9.0kW (12Hp) air-cooled spindle 6,000-24,000 rpm
3-	Bed frame	Heavy duty metal welding
4-	Table	Vacuum table 6 zones
5-	Driving system	Servomotor and driver
6-	Y axis driving system	Helical rack & pinion
7-	X & Z axis driving system	Hiwin ballscrew (Taiwan)
8-	Axis square rail	Hiwin linear square rail (Taiwan)
9-	ATC	404: Rear Linear 6 tools ISO30, ER32 408/510: Rear Linear 8 tools ISO30, ER32
10-	Inverter	11 kW
11-	Electric parts	Schneider (France)
12-	Limit switch	Omron (Japan)
13-	Electrical wiring	Siemens (Germany)
14-	Control Switch	Moeller (Germany)
15-	Lubrication	Hand control with aluminum oil pipe
16-	Machine working size	404: 51" (X) x 51" (Y) x 7-3/4" (Z) 408: 51" (X) x 98" (Y) x 7-3/4" (Z) 510: 63" (X) x 126" (Y) x 7-3/4" (Z)
17-	Machine Size (L x W x H)	408: 87" (X) x 74" (Y) x 71" (Z) 408: 87" (X) x 122" (Y) x 71" (Z) 510: 99" (X) x 149" (Y) x 71" (Z)
18-	Max Travel speed	2,350 IPM
19-	Max working speed	1,100 IPM
20-	Machine Power	3phase, 220V, 52A
21-	Machine net Weight	404: 3,520 lbs 408: 3,960 lbs 510: 4,480 lbs
22-	Tool length device	Automatic
23-	Vacuum pump	Option
24-	CAD/CAM software	Option



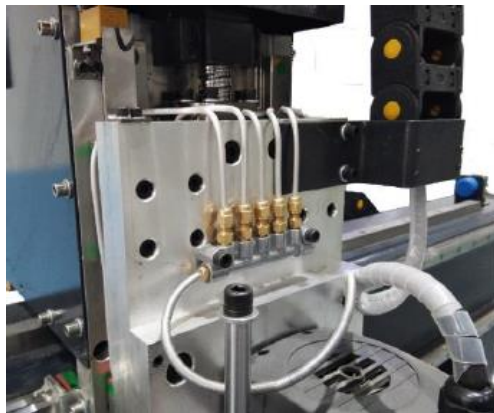
**9.0 kW spindle**



**Rich-auto NK105 control**



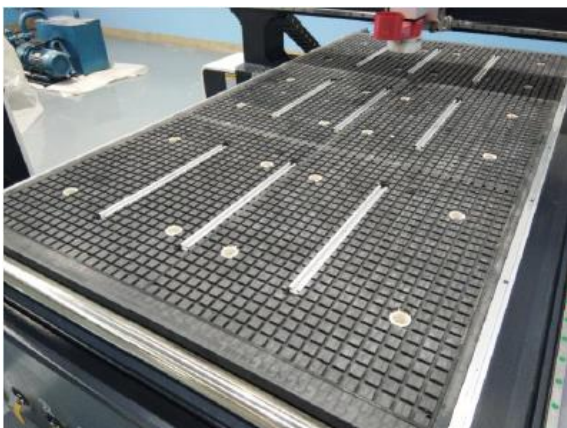
**Electric cabinet**



**Lubrication system**



**Rigid frame**



**6 zones Vacuum table**



**8 tools rear ATC**