



Rapid 8R CNC 404/408/510

RAPID 510-8R

high flexibility and
productivity cnc router
for furniture production



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



CASTALY INDUSTRIES CORP.

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E-mail: maxcnc@castalymachine.com Website: www.castaly-cncmachine.com



General Information

FOB L.A. California, USA		404: \$35,500 USD/408: \$37,720 USD/ 510: \$39,940 USD
Payment Terms Warranty Delivery time	Tooling, rigging, freight & sales taxes are not included	
	50% deposit, 50% balance before ship	
	One year	
General specs	To confirm with sales	
	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.



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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

Feel Free to contact us if you have any technical question or OEM/ODM project, we have solutions for all your needs!



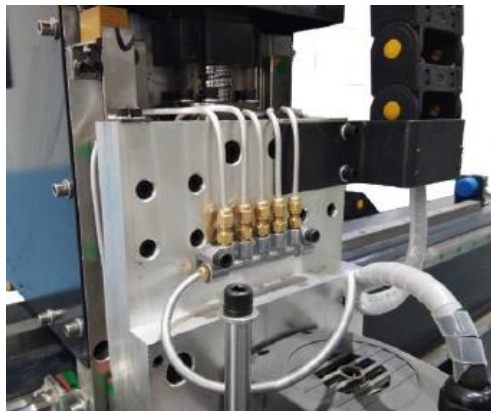
9.0 kW spindle



NK105 G3 control



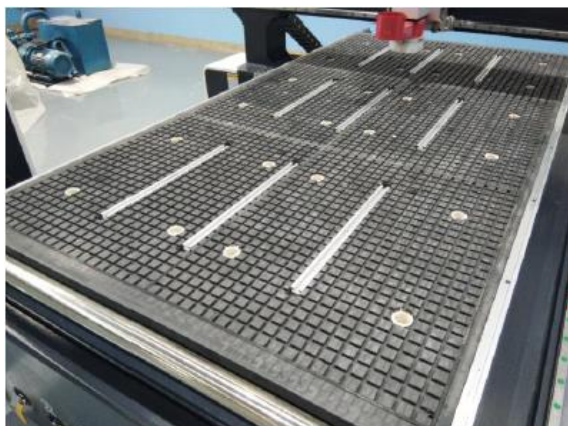
Electric cabinet



Lubrication system



Rigid frame



6 zones Vacuum table



8 tools rear ATC