



# Pro CNC 408/510/512



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:**  
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## General Information

FOB L.A. California, USA	
	Tooling, rigging, freight & sales taxes are not included
Warranty	One year
Delivery time	To confirm with sales
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

- ❖ Nesting work for Automatic Infeed Loading with scissor lift and Outfeed Unloading with conveyor Process
- ❖ Automatic 12 Tools rotary type auto tool changer 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.
- ❖ 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	Syntec control system
2-	Auto loading	Auto Infeed Loading Scissor Lift & Outfeed Conveyor Table
3-	Spindle	9.0kW (12.8Hp) HSD air cooled spindle 6 000-24 000 rpm (Italia)
4-	Bed frame	Heavy duty metal welding
5-	Table	Vacuum table with 6 zones
6-	Driving system	Yaskawa servo drive and motor (Japan)
7-	Y axis driving system	Helical rack & pinion
8-	X & Z axis driving system	Hiwin ballscrew (Taiwan)
9-	Axis square rail	Hiwin linear square rail (Taiwan)
10-	ATC	Rotary 12 tools ISO30, ER32
11-	Inverter	11 kW
12-	Electric parts	Schneider (France)
13-	Limit switch	Omron (Japan)
14-	Electrical wiring	Siemens (Germany)
15-	Control Switch	Moeller (Germany)
16-	Lubrication	Automatic control with filter
17-	Machine working size	408 :51'' (X) x 98'' (Y) x 7-3/4'' (Z) 510 :63'' (X) x 126'' (Y) x 7-3/4'' (Z) 512: 63'' (X) x 150'' (Y) x 7-3/4'' (Z)
18-	Machine Size (L x W x H)	408 :98'' (X) x 433'' (Y) x 71'' (Z) 510 :110'' (X) x 531'' (Y) x 71'' (Z) 510 :112'' (X) x 603'' (Y) x 71'' (Z)
19-	Max Travel speed	2 350 IPM
20-	Max working speed	1 100 IPM
21-	Machine Power	3phase, 220V, 60A
22-	Machine net Weight	408: 8 810 lbs 510: 9 970 lbs 512: 10 750 lbs
23-	Tool length device	Automatic
24-	Vacuum pump	Option
25-	DrillBank	Include HSD 9 tools drillbank
26-	CAD/CAM software	Option



**9.0 kW spindle**



**Syntec 6MB control**



**loading system**



**unloading system**



**Drillbank**



**12 tools linear ATC**