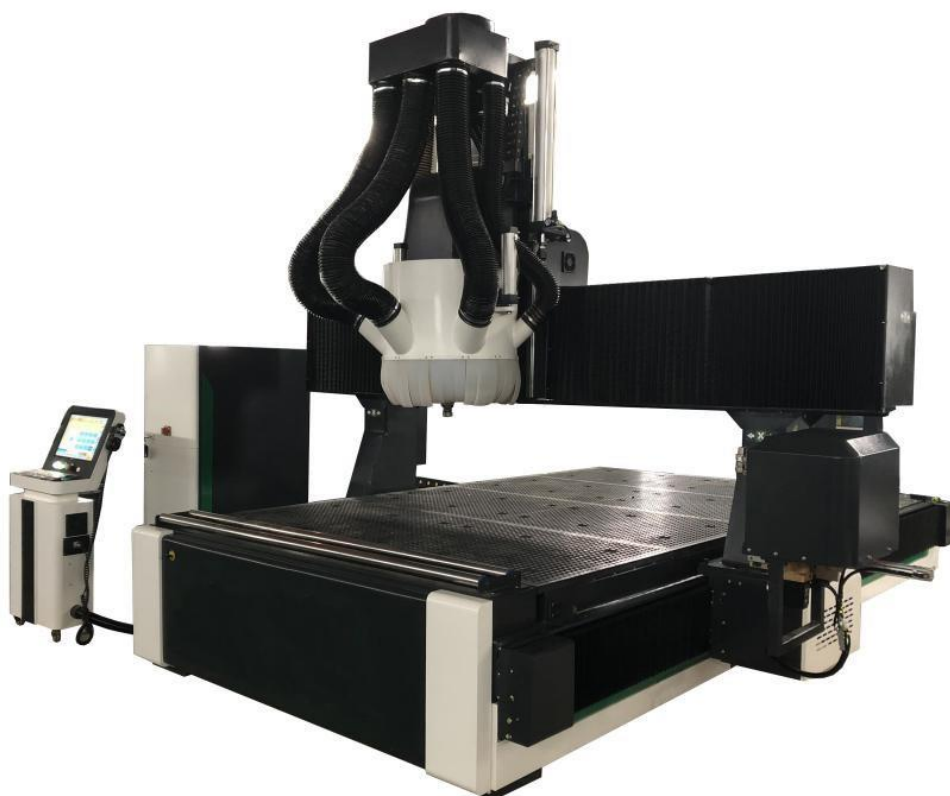




# Creative 5 axis CNC 510



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
- ❖ Door processing



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## General Information

|                                 |                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>FOB L.A. California, USA</b> | <b>\$236,000.00 USD</b>                                                                                                                                                                                                                                                                                                                                                        |
| <b>Payment Terms</b>            | Tooling, rigging, freight & sales taxes are not included                                                                                                                                                                                                                                                                                                                       |
| <b>Warranty</b>                 | 50% deposit, 50% balance before ship                                                                                                                                                                                                                                                                                                                                           |
| <b>Delivery time</b>            | One year                                                                                                                                                                                                                                                                                                                                                                       |
| <b>General specs</b>            | To confirm with sales                                                                                                                                                                                                                                                                                                                                                          |
|                                 | 1. Machine Gantry X Axis square rails Parallel vertical accuracy 0.001" (0.03mm)<br>2. Y Axis square rails Parallel vertical accuracy 0.001" (0.03mm)<br>3. Z Axis ball screw Parallel vertical accuracy 0.001" (0.03mm)<br>4. Machine Re-position accuracy 0.001" (0.02mm)<br>5. Machine working accuracy 0.004" (0.10mm)<br>6. Grating ruler travel accuracy 0.002" (0.05mm) |

## Features

- ❖ 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.
- ❖ Horizontal and vertical spindle for top and side stock processing
- ❖ 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 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.

## Technical data

|     |                          |                                                                                                |
|-----|--------------------------|------------------------------------------------------------------------------------------------|
| 1-  | Control system           | Syntec                                                                                         |
| 2-  | Vertical Spindle         | 12.0kW (16.0 Hp) air cooled spindle (HSD/Hiteco)                                               |
| 3-  | 5 axis head              | Double pendulum head (HSD/Hiteco)                                                              |
| 4-  | Bed frame                | Heavy duty steel welding                                                                       |
| 5-  | Table                    | Vacuum table.                                                                                  |
| 6-  | Driving system           | Yaskawa Driver and servo-motor 2000W (X,Y & Z) , 750W (4 <sup>th</sup> & 5 <sup>th</sup> axis) |
| 7-  | X& Y axis driving system | Helical rack & pinion                                                                          |
| 8-  | Z axis driving system    | Hiwin ballscrew (Taiwan)                                                                       |
| 9-  | Axis square rail         | Hiwin linear square rail (Taiwan)                                                              |
| 10- | ATC                      | Rotary 12 tools HSK F63, ER32                                                                  |
| 11- | Inverter                 | 15kW                                                                                           |
| 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 aluminum oil pipe                                                       |
| 17- | Machine working size     | 61'' (X) x 122'' (Y) x 20'' (Z)                                                                |
| 18- | Machine Size (L x W x H) | 95'' (X) x 158'' (Y) x 101'' (Z)                                                               |
| 19- | Max Travel speed         | 1 575 IPM                                                                                      |
| 20- | Max working speed        | 800 IPM                                                                                        |
| 21- | Machine Power            | 3phase, 220V, 82A                                                                              |
| 22- | Machine net Weight       | 6 600 lbs                                                                                      |
| 23- | Tool length device       | Automatic                                                                                      |
| 24- | Vacuum pump              | Option with pods                                                                               |
| 25- | 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!**





Spindle, 4<sup>th</sup> & 5<sup>th</sup> axis



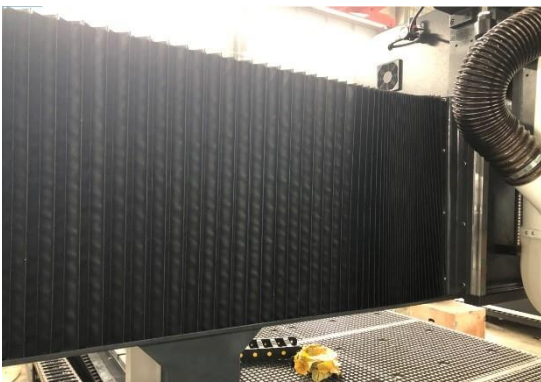
Syntec control



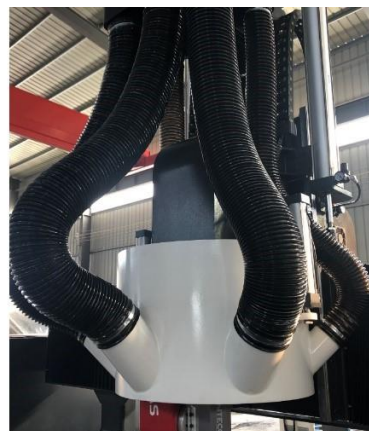
12 tools rotary ATC



Tool length measuring system



Rail dust protection



Dust collection system