



23 Exhibition Drive, Malaga Western Australia

Monday - Friday 7am-5pm + Sat 8am-4pm



Sales Centre for Sales, Advice + Orders

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[hello@beyondtools.com](mailto:hello@beyondtools.com)

## 1200MM X 1200MM CNC ROUTER WITH AUTO TOOL CHANGE 415V SAPPHIRE TCAKM1212VC BY TOUGH CUT (PRE-2023 VERSION)



The Toughcut SAPPHIRE CNC Router is designed for the production of custom furniture, parts, and prototyping. The compact yet robust working center is suitable for hobbyists, craftspeople, schools, and small workshops.



SKU	Option	Part #	Price
9000609-2			\$

### Features

- OPERATION CONTROLLER | Mach3 Controller
- AUTO TOOL CHANGER | 4 Tool Changer with ISO30 for fast tool change and efficiency (no need for manual tool change).
- DRIVE MOTOR | Leadshine Servo Motor
- HELICAL GEAR & RACK TRANSMISSION | Good meshing performance, smooth transmission, and low noise reducing the load of each pair of gears and improving the bearing capacity of the gears.
- SPINDLE | 5.5kW ATC Spindle (water-cooled)
- ELECTRONICS | Leadshine Electronics
- GUIDE RAILS | HIWIN Guide Rails with sliding technology to easily drive the machine and ensure good bearing capacity.
- Automatic tool length calibration device.
- Vacuum table for holding the workpiece.

### Applications

- Furniture & Wood Processing: wooden doors, chairs, cabinets, stairs, computer tables, sewing machine, musical instruments.
- Plate processing: insulation, plastic and chemical, the PCB, move the car body, bowing, track, stars anti-special board, epoxy, resin, ABS, PP, PE, and other carbon mixture.
- Decoration / Craft Industry: Engraving characters/patterns onto gifts, souvenirs, and shaping of acrylic, PVC, MDF, artificial stone, plexiglass, plastic, copper and aluminum, and other soft metal plate engraving and milling cutting.
- Advertising / Signage Industry: Engraving and cutting of various labels and signage on materials including marble, brass, steel, and other metallic material.
- Engraving: Engraving characters, numbers, and other patterns on labels for products directly.
- Architectural Models: Engraving fine window, fencing, and wall patterns.

### Standard Inclusions

- Windows-based Laptop for machine operating software only (Mach 3 - not for CAD software)
- Chiller unit for water-cooled Spindle
- 4 x ISO30 Tool holders - No Collets
- Vacuum pump for work table

### Workshop Requirements

- 20amp 5pin 415V socket outlet
- Compressed air supply, minimum FAD 200L/MIN @ 6 bar - the machine is fitted with Nitto Style Male Fitting
- Dust Extraction, Minimum 3HP, 100mm outlet
- Tooling, the machine is not supplied with tooling
- Collets for tool Holders - size Depends on the tooling

Model	
Type	CNC Router
SKU	9000609-2
Brand	ToughCut
Technical - Main	
Power Source	415V 50Hz Three Phase
Packaging + Shipping	
Shipping Weight (Gross)	0.0 kg



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CAD Software

Bracket for holding dust hose