



CNC5003

Wood-Mizer®



woodmizer.com

CNC5003 INDUSTRIAL GRADE MACHINE, WHICH ALSO FITS THE CRAFTSMAN

CNC MACHINING CENTER

The CNC5003 is a state-of-the-art CNC machine, designed from the ground up to industrial standards for durability and process stability. The machine is especially designed for wood, sheet materials, plastic, foam, composites and light alloys.

Industrial machine, built to your requirements:

- Industry leading Fanuc controller
- Highest grade components for high performance, maximum reliability and low maintenance
- Multi-Zoned table for flexibility and stability
- Optional material handling for productivity
- Digital servos with high resolution for higher accuracy and less vibration
- Interface for PC and CAM software.
- Server built-in controller

BENEFITS **TOP 3** **BENEFITS**

Highest grade components for performance and reliability

Flexible machine can be equipped for a variety of operations and materials

Industry leading controller with world class service level



SPECIFICATIONS	
OPERATING AREA	
Standard	
X-axis (longitudal)	3080 mm
Y-axis (lateral)	1540 mm
Z-axis (height)	200 mm
Optional	
X-axis (longitudal)	5080 mm
Y-axis (lateral)	2050 mm
Z-axis (height)	400 mm
SPEED	
X-axis (longitudal)	60 m/min
Y-axis (lateral)	30 m/min
Z-axis (height)	15 m/min
SPINDLE MOTOR WITH TOOL CHANGE	
Power	11 kW
Cone	HSK63
Maximum speed	24000 rpm
TOOL CHANGE	
Rotating carousel	12 tools
VACUUM PUMP	
Flow rate	126 m ³ /h
Power	4 kW or 5.5 kW
Maximum vacuum	0.9 bar
DIMENSIONS & WEIGHT	
Frame size (footprint)	1570 x 4150 mm
Total length	4460 mm
Overall width	3000 mm
Overall height	2400 mm

Feature Overview

- Gantry design with dual drive for maximum stability, efficiency and accuracy.
- Gantry mounted Automatic Tool Changer (ATC) with 12 positions for fast tool changes.
- Multi-zoned combined vacuum-screen nesting table for great flexibility.
- Articulated, highly efficient chip extraction for clean work environment.
- Large choice of optional accessories.
- Optional integrated material handling for loading and unloading, enabling use as machining cell.
- Ergonomic work environment from articulated control panel to table height to gantry ATC access.
- Also available in 4-axis and 5-axis designs.
- Table can be used in multiple configurations:
 - Rubber sealing to match size and shape of the work pieces and work zones.
 - MDF boarding can be used to mount irregular shapes.
 - Vacuum pads can be used directly on the vacuum table.
 - Vacuum pads can be used on table, with individual vacuum connections.
- Additional tool positions available for on-table mounting.



Pictured: CNC5003

CNC5003 MAIN FEATURES



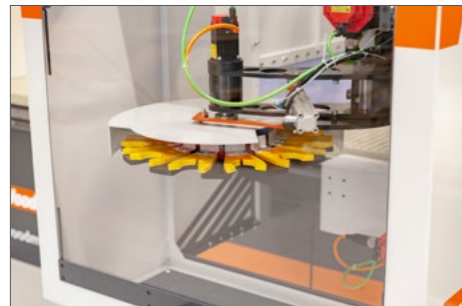
Vacuum nesting table

The table is built in 6 Zones - each with an individual valve. Each Zone has 36 individually sealable vacuum points, for a total of 216 individual vacuum points. This allows for a large array of potential configurations. The table is available also in high-flow configuration for use with extremely porous materials, such as very breathable foams, for instance in combination with our optional oscillating knife unit.



Spindle Motor

The Spindle Motor is selectable between type, size, and number. Our standard spindle motor is high power, 11 kW, with HSK63F. The spindle is inverter driven and has a speed up to 24 000 RPM. The Spindle Motor is equipped with ceramic bearings.



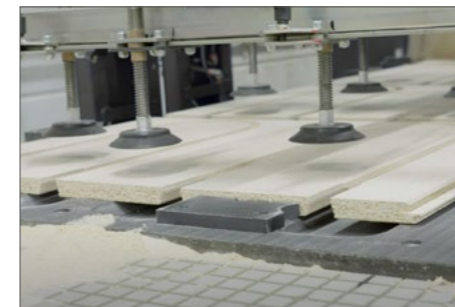
Automatic Tool Changer (ATC)

The machine is fitted with an ATC of 12 positions on the gantry for fast tool changes. The ATC magazine is conveniently accessible through a hatch for easy service.



Movable control panel on wheels

Can be moved to any location around the 3 sides of the table. Accessed through an ergonomic interface panel at the machine or via network.



Material handling

The industrial production efficiency can be further increased with integrated material handling equipment. We can equip the machine with a modular system for loading and unloading material, tailored to your needs. Such a system transforms the machine to a machining cell, capable of automated processing whole batches of material, without operator intervention or oversight.

Pictured: CNC5003 with material handling





CNC5003 OPTIONS & ACCESSORIES



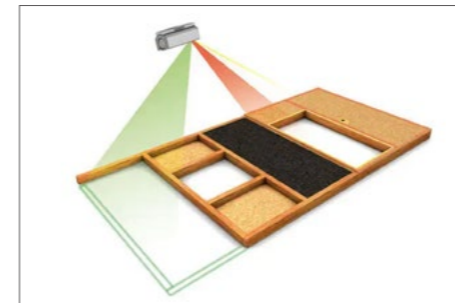
Vacuum Pads

Combine vacuum table with vacuum pads using special fixing plate. Vacuum pads are available in several versions.



CNC Aggregates

A full range of CNC aggregates are available for more advanced operations and productivity



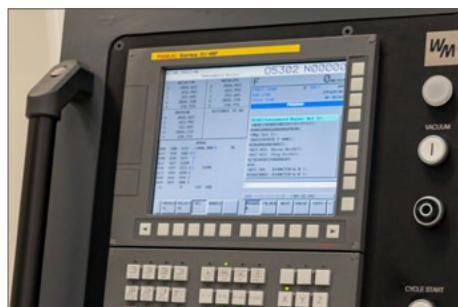
Laser

Lasers to help positioning material, from a simple cross-laser to advanced laser projectors that show a contour outline of the part to be positioned.



Machine Protection

Protection around the machine for example: Gates/Light curtains and more are available, tailored to your needs.



Programming

The control system utilizes ISO-standard G- and M-code. The machine is prepared for interfacing with CAM systems.



Wood-Mizer is a major producer of sawmill machines and woodworking machines.

Wood-Mizer is now also focusing on CNC machines. The machines are designed to produce parts in wood but are also well suited for processing plastic, aluminum, and more.

The production and development of CNC machines started in 2006.

With branch offices on five continents and more than 100 authorised distributors worldwide, Wood-Mizer is committed to customer success. Our international sales and service teams offer advice, experience, and local service worldwide, with experience in diverse markets for many years.

We try to help you make the right choice to suit your own plans, however ambitious. When acquiring a Wood-Mizer machine, you buy more than the product – you become a part of the Wood-Mizer family. Modern manufacturing facilities in the United States and Europe guarantee maximum quality at an affordable price – anywhere in the world. And the constant development of new products are designed with the future in mind. Face the future of your company confidently with Wood-Mizer.

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from forest to final form

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