

CNC5003



MORETENS

CNC5003



- Industrial machine, built to your requirements
- Can be customized
- The machine can be equipped for several different operations
- Can be accessed from 3 sides
- Industrial control system, non-PC based
- Digital servos with high resolution for higher efficiency and less vibration
- Interface for PC and CAM software. Server built-in controller
- Removable control panel on wheels
- Bridge Construction for better stability
- Double-operation (2 servo motors) of the bridge gives maximum efficiency

- Combined vacuum-screen table for both discs and solid wood. Can be used in 4 ways:
 - Rubber sealing strips, can be placed in grooves to match size and shape of the work piece.
 - 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 a plain table, with individual vacuum pipes.
- Large choice of accessories
- Can be equipped with integrated material handling (Picking robot)
- Also available in 4-axis and 5-axis designs.

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Programming

The control system is programmed with the G-code (ISO code). The machine is also prepared for interfacing with CAM systems.

Work Table

The table is a combined grooved vacuum-table for all kinds of work and materials.

Work table for sheet materials

Combined vacuum-screen table for both boards and solid wood. Can be used in 4 ways:

Rubber sealing strips - can be placed in grooves to match size and shape of the work piece.

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 a plain table, with individual vacuum pipes.

The table is built in eight sections - every section is controlled by a valve. In every section there are eight vacuum valves (Total of 64) which are sealed with the work piece and rubber sealing strips in the grooved table. This allows for either one large sheet to be held down or several smaller irregular pieces to be held down.

Vacuum Pads on table

Combine vacuum table with vacuum pads using special fixing plate

Aluminum Table

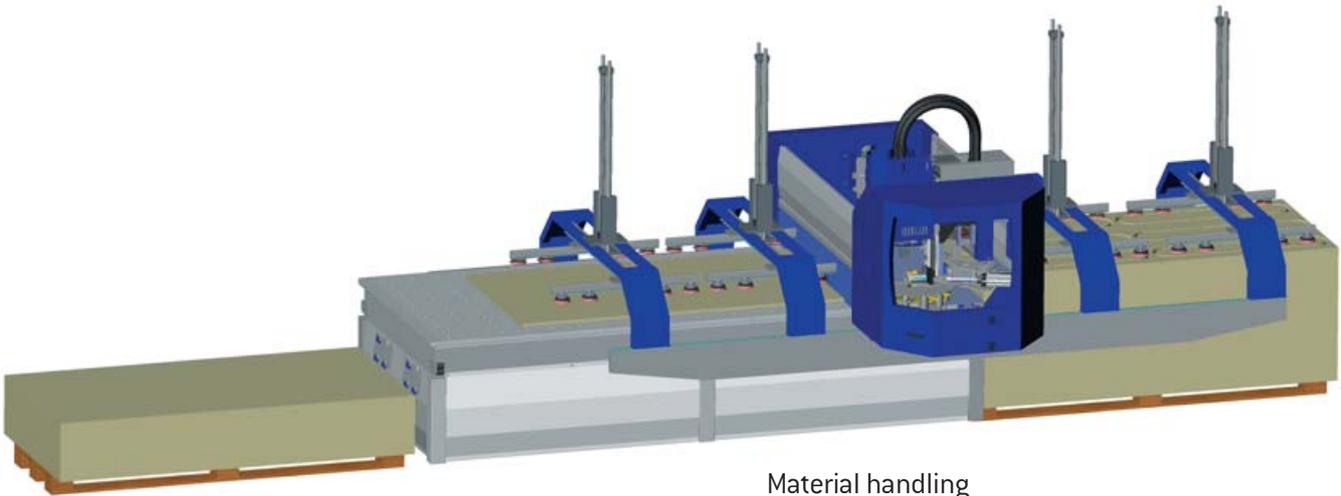
Flat aluminum table.

Spindle Motor

The Spindle Motor is selectable between type, size, and number.

Standard spindle motor

Our standard spindle motor, With the tool change cone is HSK63. The spindle is driven continuously with a drive and has a speed between 300 - 24 000 RPM. The Spindle Motor is equipped with ceramic bearings.



Material handling

The industrial production efficiency can be increased further with integrated material handling equipment (loading arm).



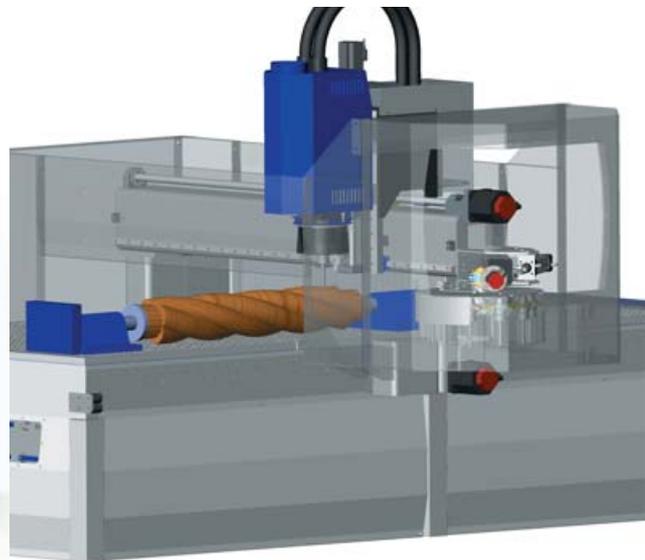
Vacuum Pads



Drill boxes & Spindles



Angle Units



Milling-turning equipment

Accessories, optional

Processing Spindles

The machine can be equipped with various spindle motors, both vertical and horizontal.

4-axis controlled

The fourth is shaft-driven and programmable 0-360 degrees.

CAM software

We can offer a number of CAM software customized for your requirements.

Vacuum Pads

Vacuum pads are available in several versions.

Angle Units

Angle sets for cutting, milling, drilling, etc. with horizontal spindle.

Drill boxes

There are 11 different types of drill box to choose from (from 7 to 25 spindles). Each spindle is separately controlled.

Laser

Lasers to help place the material, from a simple cross-laser to advanced laser projectors that show a picture of the part to be produced.

Material handling

The industrial production efficiency can be further increased with integrated material handling equipment. We can equip the machine with a modular system tailored to your needs.

Machine Protection

Protection around the machine for example: Gates/Light curtains can be provided.

Aluminum Table

Aluminum tables can be provided for use when fixtures need to be screwed into the table. For example: Aluminum processing.

Unique woodworking machinery



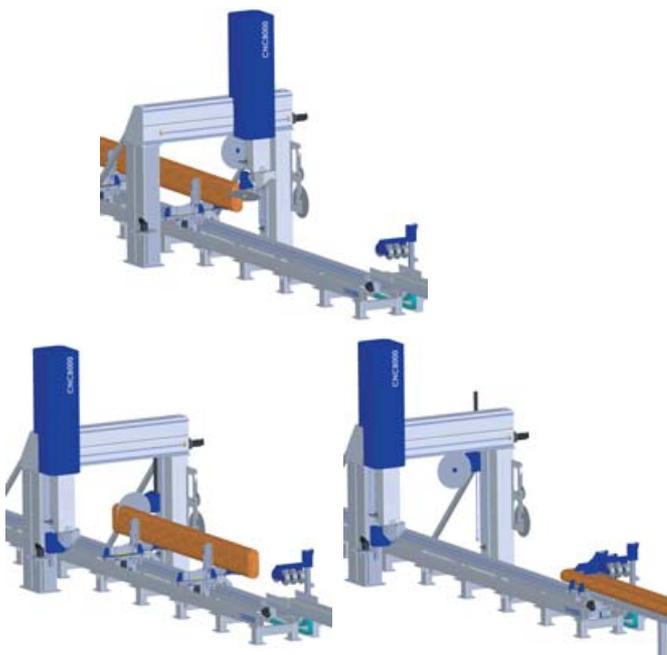
MOReTENS has been producing woodworking machinery for over 25 years. The innovative design shaped by the needs of our customers has allowed us to produce cost effective solutions and unique benefits.



MOReTENS manufacturing unit in Östersund, Sweden. Here all our machines are manufactured to the highest standards of quality



CNC 5000 at major european convention in Paris



CNC 8000

The CNC8000 is a further example of what we can do. The machine performs 6-axis machining of structural timber. Capable also of conical parts, has built-in material handling. The machine is suitable for timber manufacturers, among others, for companies that perform post-processing of glulam beams, roof truss manufacturing etc.

Technical data

	Option	Standard	Option	Option
Operating Area				
X-axis, longitudinal	2500 mm	3080 mm	5080 mm	8000 mm
Y-axis, lateral	1250 mm	1540 mm	2050 mm	Special
Z-axis, height		200 mm	400 mm	600 mm
Speed				
X-axis		60 m/min		
Y-axis		30 m/min		
Z-axis		15 m/min		
Spindle motor with tool change				
Power		8 KW	12 KW	
Cone	ISO30	HSK63		
Max speed		24,000 rpm		
Tool change, rotating carousel		10 tools		
Vacuum pump				
Flow rate		126 m³/h	250 m³/h	
Power		4.0 KW	5.5 KW	
Maximum vacuum		0.9 bar		
Dimensions & weight				
Frame size (footprint)		1500 x 3950 mm		
Total length		4050 mm		
Overall width		2700 mm		
Overall height		2200 mm		
Weight		approx 3000 Kg		



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