

«Precision cutting meets innovation»



Double Cut

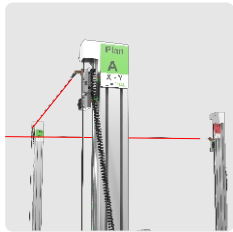
Double Cut

Unmatched precision on all sides of the block, versatility for every project and maximum efficiency for serial productions: Double Cut is the hot wire CNC machine that revolutionizes your work. Two wires, one control: perform complete operations without moving the block, saving time and achieving maximum precision. Equipped with cutting-edge CNC technology and 8 independent axes, Double Cut is able to meet the most complex cutting needs, adapting to projects of all types and sizes. Its versatility makes it the ideal choice for companies looking for efficiency and flexibility, allowing easy management of small, medium and large serial productions.

The two cutting planes of Double Cut have been designed and engineered for operations that require cutting the block on all four sides without losing the original position, ensuring perfect parallelism between the cuts on different sides. This allows for the production of packaging, insulation or soundproofing panels, frames, letters, symbols, signs, suspended ceilings, molds, matrices, decorative elements, preforms for the construction industry, formworks, and much more.

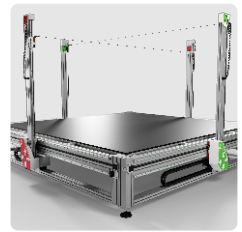


MADE WITH CARE AND ATTENTION TO DETAILS



8 Independent axes

Two cutting planes with wires positioned orthogonally



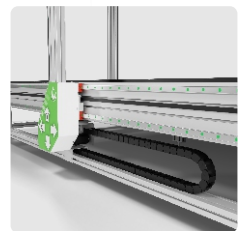
Sturdy structure

Dynamic structure made of durable anodized aluminum profiles



Wireless keypad

Control the machine remotely without using the main power station



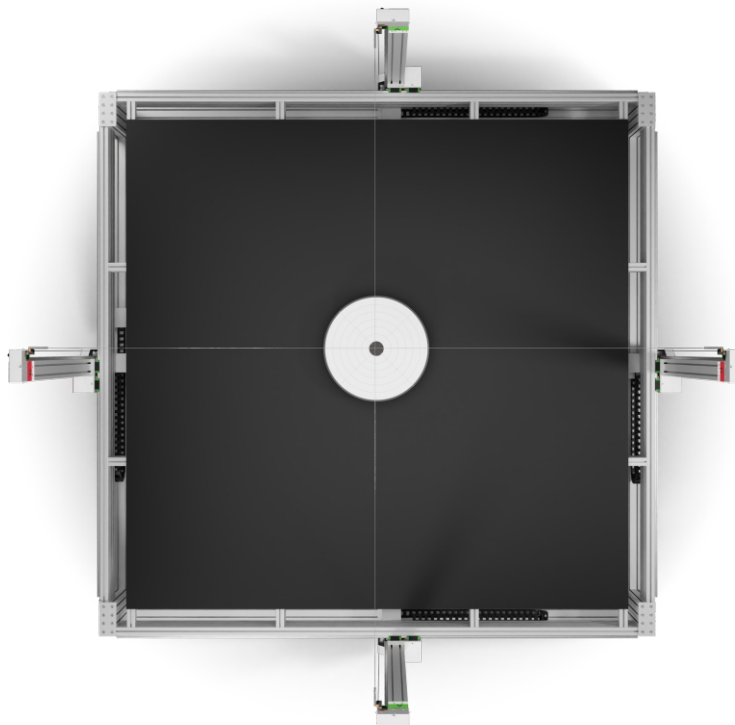
Transmission

Sliding on linear recirculating ball bearing guides



Dell® HMI

Dell branded PC and monitor are included with Double Cut



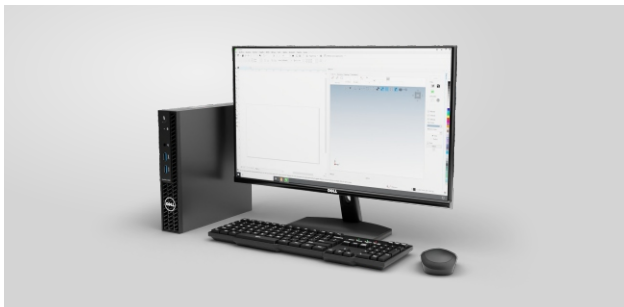
Operator console

Offers a secure and functional space to place the PC

INCLUDED ACCESSORIES WITH DOUBLE CUT

Operator console

Our console, included with our CNC machines, provides a sturdy structure designed to ensure reliability and functionality. This resilient support offers a secure space to place the PC, allowing for comfortable work proximity to the machinery. With its robustness and practicality, it's intended to optimize efficiency and comfort during work operations.



Dell HMI

Our complete workstation, featuring a Dell computer and monitor, is the ideal solution for professionals seeking a seamless and efficient work environment. With its superior performance, exceptional visuals, and the backing of a trusted brand like Dell, this workstation is sure to exceed your expectations.

Wireless keypad

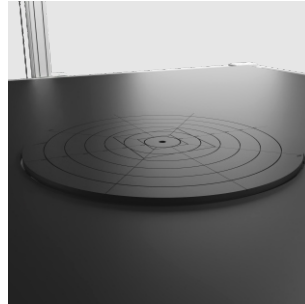
The Handheld Keypad from Nettuno allows you to perform various operations: Jog Moving, Play / Pause, Stop, Adjust Cutting Speed, Rotate Turntable and Control the Position of Axes. These operations can be performed while staying close to the cutting wire, controlling the machine remotely without using the main control (power station).



MAKE YOUR CUTTING EXPERIENCE EVEN MORE COMPLETE

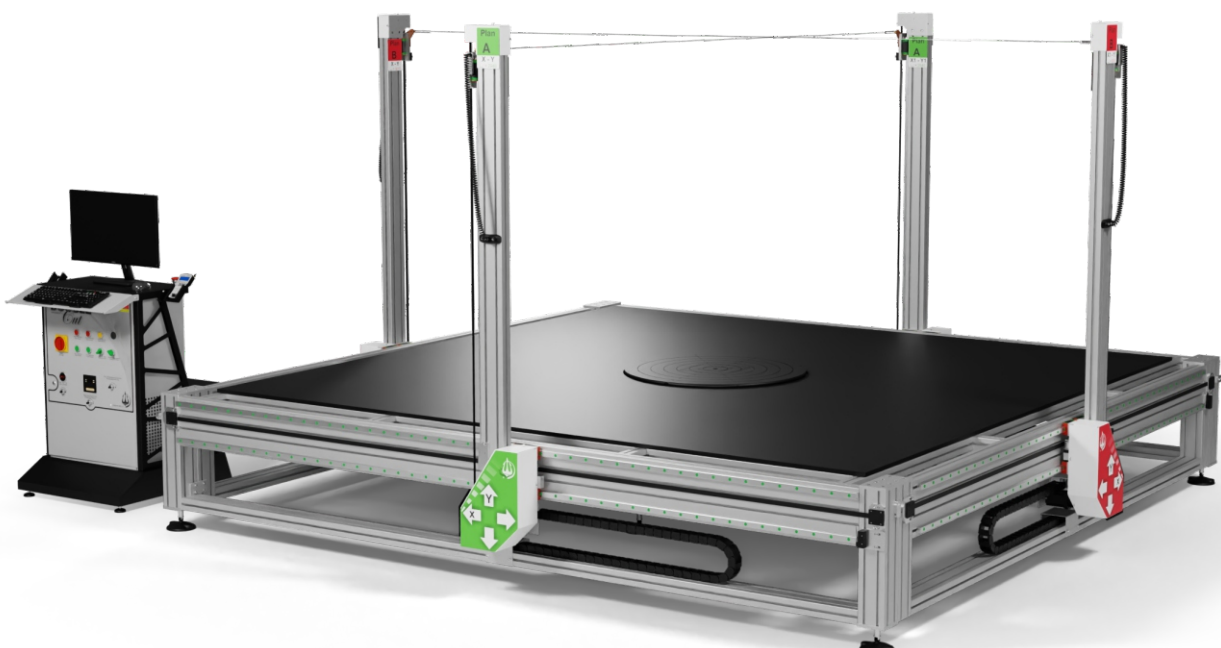
Vertical Turntable

The Vertical Turntable, also known as the rotating table, is a tool used for cutting 3D foam shapes, whether symmetrical or asymmetrical, irregular, spheres, columns, 3D foam characters and figures. This accessory can be combined with the Shapeable Wire to create grooves on 3D Styrofoam shapes.



Carver/ Shapeable wire

Using the shapeable wire makes it easy to create polystyrene shapes with grooves or engravings. Installed on the slider of the CNC foam cutter, it follows the path drawn in CAD. The combination of handcraft accuracy and CNC technology results in unique curved models that a standard straight cutting wire cannot achieve.



NETTUNO DOCKER CAM

Nettuno Docker Cam is a mobile tab attached to CorelDraw. The company's choice to create an application that interacts with one of the best CAD around was carefully valued then approved. A single interface arranges a CAD/CAM environment. This choice saves time to the operator, who can avoid the saving or the export in many types of extensions which, eventually, should be opened in another program.

It is now possible to create: tool paths with direct program exportation, complex shapes, any single type of texts and fonts and graphic compositions with measurement quotas.

Therefore, the "fusion" between CorelDraw, which contains the drawing tools, and Nettuno Docker Cam, with its specific hot wire cutting countless functions, turned out to be the fastest, simplest and the most practical solution.

This system simplifies significantly the design of projects meanwhile it continues showing an easy and clean to use interface, allowing the operator to work undisturbed without having to think about different types of interfaces that the operator, otherwise, should have used.

Nettuno Docker is a CAM software designed to create paths on every single kind of hot wire cutting, ranging from the easiest cuttings in 2D to the most complex simultaneous turning and independent axes procedures. Nettuno's CAM software shows a 3D preview of the final result: it's essential because it allows to evaluate in advance the result before the eventual cut. The preview becomes essential, especially in the turning operations.

With the usage of a conventional software, the final result can often be a question mark. The operator can waste precious time and materials without a simulation of the piece. Thanks to our preview simulation this kind of problems can't happen.

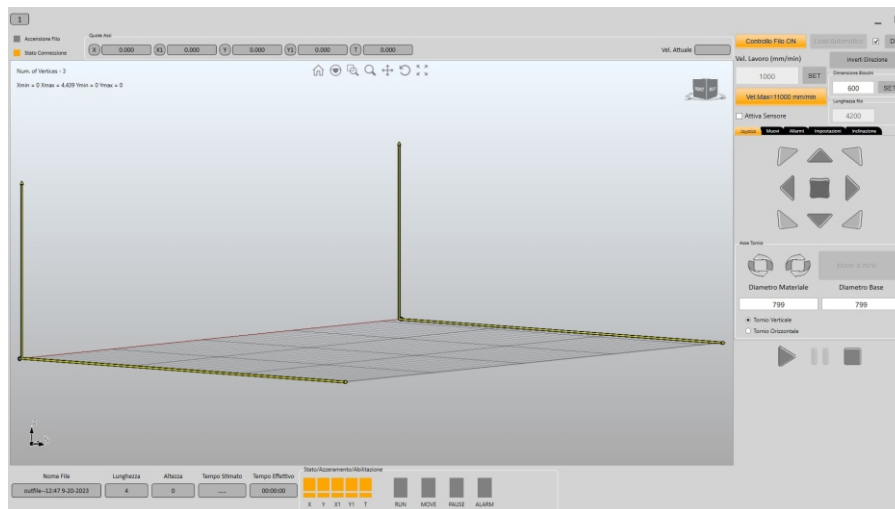
Common file formats can be imported, including:

DXF - DWG - EPS - AI - PDF - HPGL - PLT - SVG - STL



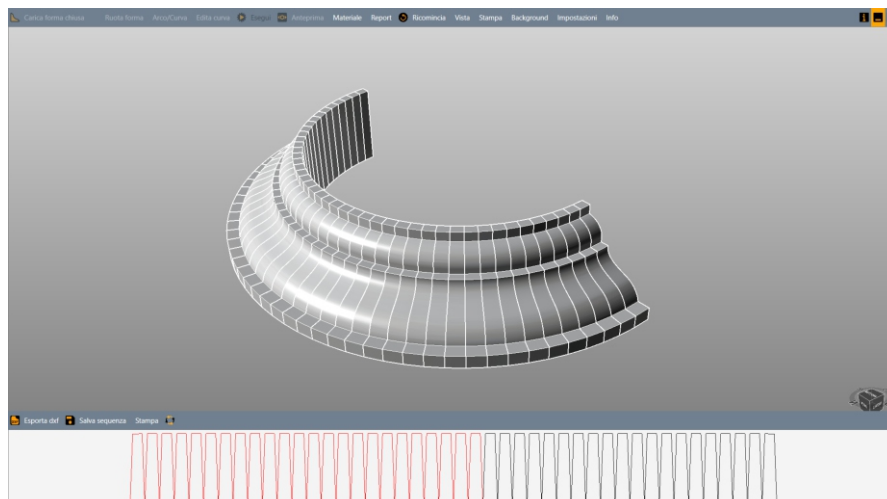
NETTUNO CUTTER

Nettuno Cutter communicates directly with the machine. It features an engaging and customizable interface. The Nettuno software provides various management fields, each dedicated to specific functions that can be selected from different windows, ensuring a simple and comprehensive organization. The main window displays a 3D simulation of the machine in use, tracking real-time movements and allowing you to preview the axis positions before sending instructions to the machine.



WEDGES

The Wedges software, developed by Nettuno, allows for precise cutting of slices and curves. By importing a DXF shape, such as a building plan, Wedges enables the automatic creation of curves, ellipses, and even 'S' shapes through slice cutting.



HARDWARE		
Overall dimensions	3300 x 3200 x 2000 mm	
Cutting area	Z A 2500 mm Y 1250 mm Z B 2300 mm	
Structure	Anodized aluminum profiles	
Maximum axes speed	13 m/min	
Wire length	Plan A 2500 mm Plan B 2300 mm	
Accuracy	+/- 0.05 mm	
Cutting wire diameter Ø	0,25 - 0,30 mm	
Type of cutting wire	Titanium	
Power supply	220/230V 50/60Hz	
Single wire absorption	1 kW	
Wire tensioning	By springs	
Wire temperature regulation	External potentiometer	
Motors	Stepper	
No. axes	8 Independent	+ vertical turntable
X axis transmission	Recirculating ball bearing guides and toothed belts	
Y axis transmission	Recirculating ball bearing guides and toothed belts	
Table top	Compacmel Plus (composite wood)	
Weight	500 kg	

Accessories & options		
Operator console	Included	
Wireless handheld keypad	Included	
Dell HMI	Included	
Vertical turntable	Optional	
Shapeable wire	Optional	

SOFTWARE - Nettuno Docker CAM

Set starting point for 2 axes function + simulation	Included
Nesting function machining + simulation	Included
4 Independent axes function + 3D preview + simulation	Included
Nesting function for independent axes	Beta
Shape builder	Included
Shape catalogue	Included
Choose starting point function	Included
Manual traits association for independent axes	Included
Choice of side/drawing	Included
Lathe machining with adaptive rotation based on diameter	Included with vertical turntable
Torsional lathe (also on three sides) + 3D preview + simulation	Included with vertical turntable
Circular text or logo	Included with vertical turntable
3D Lathe:	Included with vertical turntable
Improved resolution of silhouettes	Included with vertical turntable
Direct STL scaling	Included with vertical turntable
Offset input	Included with vertical turntable
Export processed file in STL	Included with vertical turntable
WEDGES:	Included
Development of curved cuts through the matching between profile and curve path	Included
3D simulation with realistic shape modeling	Included
Automatic sectioning of the file along the surface of the shape to be cut	Included
Saving the sections to be cut with the possibility of re-executing the cut at any time	Included

SOFTWARE - Nettuno Cutter

3D cutting area display	Included
Piece size display	Included
Real-time axes movement display on 3D preview	Included
Axes movement via physical joystick and virtual joystick	Included
Toolpath 3D simulation for 2 axes	Included
Toolpath 3D simulation for independent axes	Included
Toolpath simulation for lathe machining	Included with vertical turntable
Automatic wire positioning for turnings / lathe machining	Included with vertical turntable
Possibility to move in position from absolute and relative coordinate	Included
Saving axes position	Included
Possibility to set a time pause in the corners during processing	Included
Control of wire integrity by microprocessor	Included
Data manager	Included with Industry 4.0



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