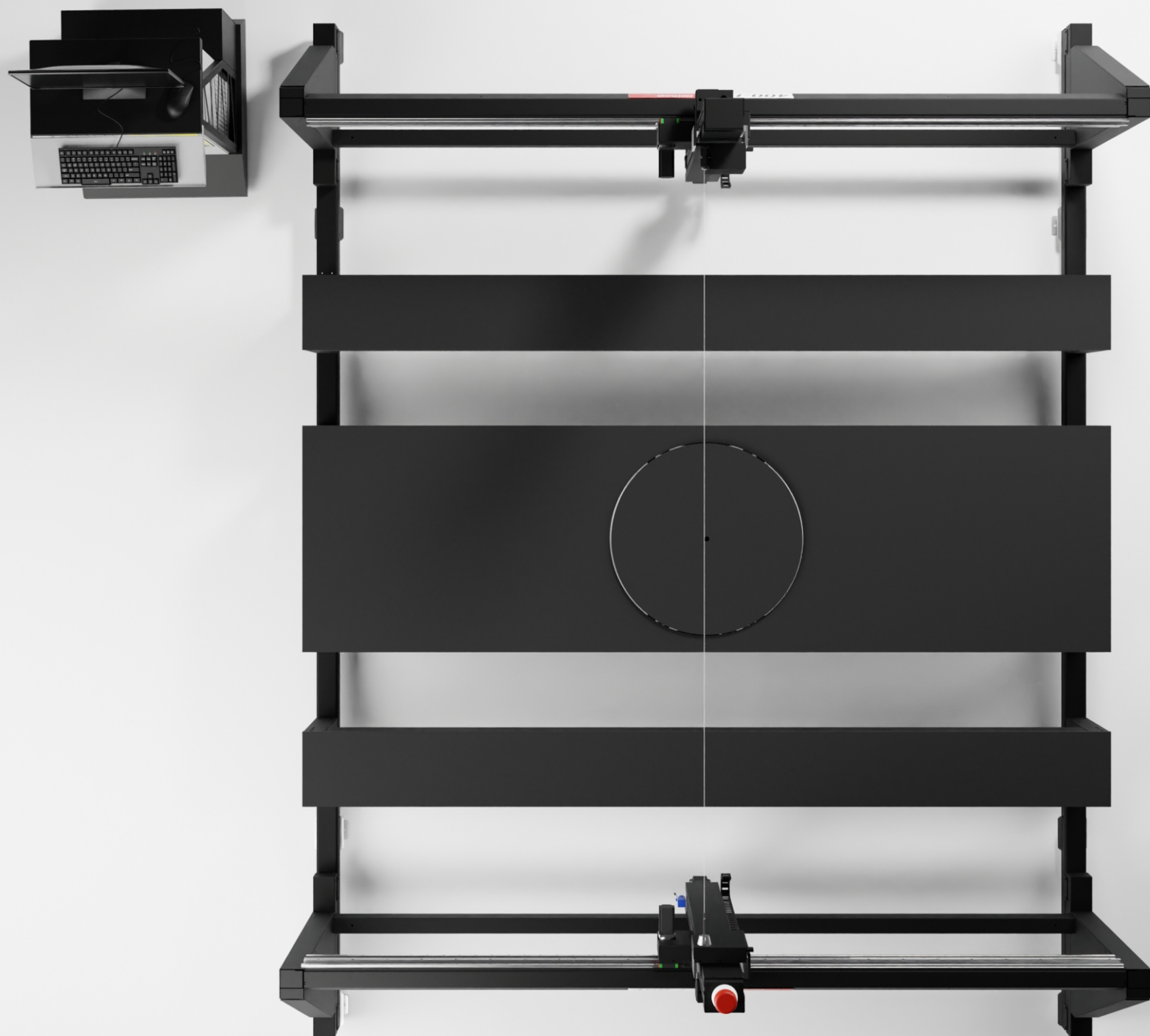


400i SNIPER



400i Sniper

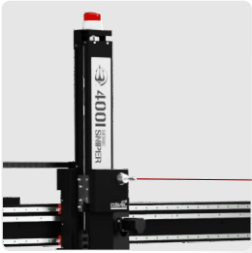
The reinforced structure of the 400i Sniper has been specially designed and built to provide stability during various cutting phases. The movement of the machine is facilitated by sliding on linear guides with ball-bearing, ensuring stability and smoothness of movement even in the long term. The combination of gear racks and bearing screws along with double linear ball bearing guides, ensures utmost accuracy in executing the cuts.

This CNC foam cutter is known for its strength, reliability, and versatility. It can be equipped with various extra tools to enhance the processing of expanded polystyrene, such as the vertical turntable, horizontal turntable, carver, multiple wire harp, cleveland and are equipped with 4 independent axes, Servomotors and friction wire traction.

Very high quality of components, careful craftsmanship and latest generation technologies. Characteristics that guarantee a superior quality finished product, classic Nettuno Sistemi standards. All this allows to carry out any type of processing easily and precisely.



MADE WITH CARE AND ATTENTION TO DETAILS



Automatic wire tensioner



Sturdy structure



Wireless keypad



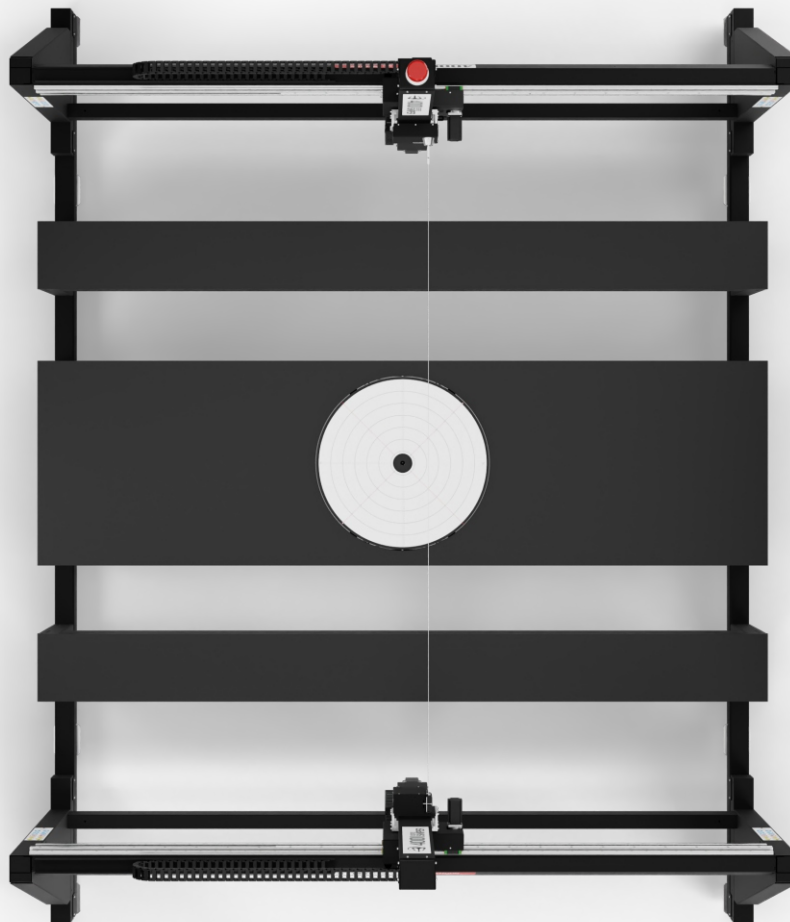
Transmission



Dell® HMI



Operator console



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.

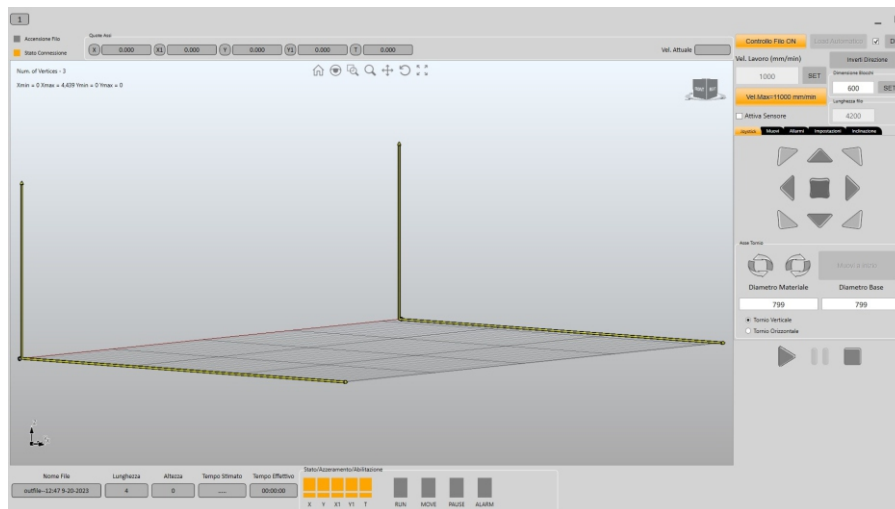
Common file formats can be imported, including:

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



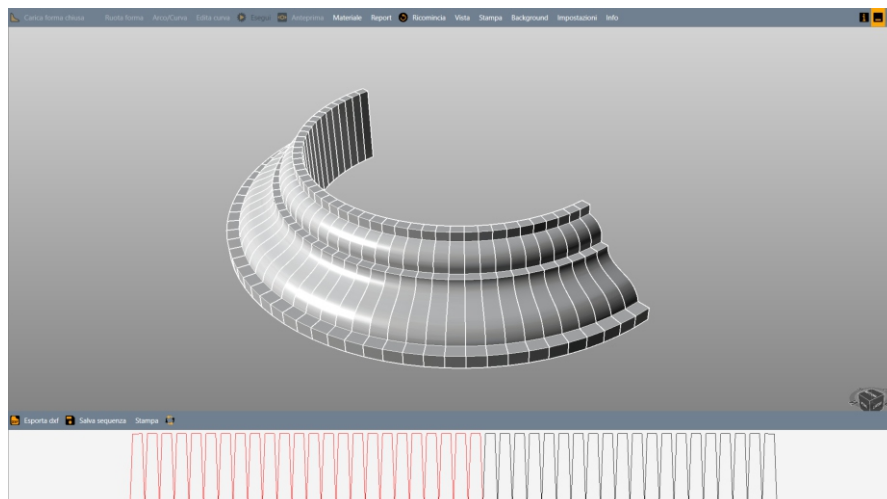
NETTUNO CUTTER

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

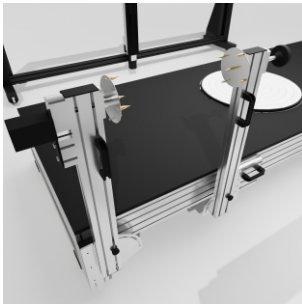
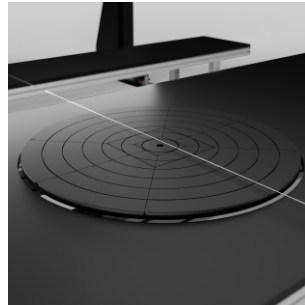
The Wedges software, developed by Nettuno, allows for precise cutting of slices and curves. By importing a DXF shape, such as a building plan, Wedges enables the automatic creation of curves, ellipses, and even 'S' shapes through slice cutting.



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.



Horizontal Turntable

The Horizontal Turntable / Lathe is used to process large 3D Styrofoam shapes or sculptures from long EPS blocks and/or foam cylinders. The main difference between the Vertical Turntable and Horizontal Lathe is that the latter can process longer foam blocks, as it cuts along the entire length of the X axis.

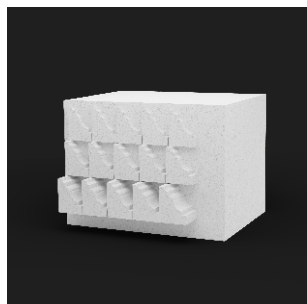
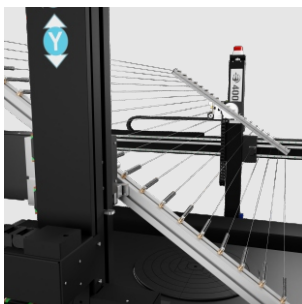
Carver/ Shapeable wire

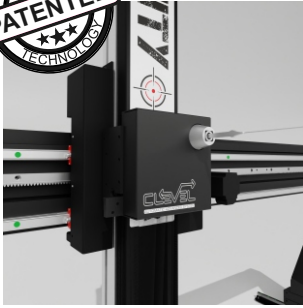
Using the shapeable wire makes it easy to create polystyrene shapes with grooves or engravings. Installed on the slider of the CNC foam cutter, it follows the path drawn in CAD. The combination of handcraft accuracy and CNC technology results in unique curved models that a standard straight cutting wire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



Multiple wire harp

The Multiple wire version can simultaneously cut a foam block with more than one wire (up to 20). This allows processing multiple pieces of the same shape in series with just one movement of the harp through the foam block. The MW cutting wires are tensioned by springs and the distance between the wires is manually adjustable along a metric scale. The harp can work in a vertical, horizontal, or oblique position.





Clevel

The intelligent cutting wire speed system, Clevel, is an automatic feed rate adjustment (conceived and patented by Nettuno Sistemi) that detects the alignment of the cutting wire and adjust the feed rate (cutting speed) of the axes accordingly. It optimizes the cutting wire speed based on the foam's different densities being cut by the machine. Manually setting the correct cutting speed for the CNC cutting machine can be a complex procedure, as the operator must consider various parameters such as cutting wire temperature, diameter, the humidity of the expanded polystyrene block, environmental temperature, block density and possible irregular foam block expansion. Clevel processes all these data automatically and in real-time ensuring a more precise cutting process.

INCLUDED ACCESSORIES



Operator console



Dell HMI



Wireless keypad



Side benches

HARDWARE

Overall dimensions	4200 x 3200 x 2050 mm	
Cutting area	X 2620 mm Y 1250 mm Z 2500 mm	
Structure	Milled steel and anodized aluminum profiles	
Maximum axes speed	13 m/min	
Wire length	2500 mm	
Accuracy	+/- 0.05 mm	
Cutting wire diameter Ø	0,25 - 0,50 mm	
Type of cutting wire	Titanium	
Power supply	220/230V 50/60Hz	
Single wire absorption	1,5 kW	
Wire tensioning	Automatic	
Wire temperature regulation	External potentiometer	
Motors	Servo	
No. axes	4 Independent	+ Vert. Turn. + Horiz. Lat. + MW
X axis transmission	Gear racks and ball bearing guides	
Y axis transmission	Bearing screws and ball bearing guides	
Table top	Sliding Compacmel Plus (composite wood)	
Weight	800 kg	

Accessories & options

Operator console	Included
Wireless handheld keypad	Included
Dell HMI	Included
Side benches	Included
Vertical turntable	Optional
Horizontal lathe	Optional
Shapeable wire	Optional
Multiple wire harp	Optional
Clevel	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 Vert. Turntable / Horiz. Lathe
Torsional lathe (also on three sides) + 3D preview + simulation	Included with Vert. Turntable / Horiz. Lathe
Circular text or logo	Included with Vert. Turntable / Horiz. Lathe
3D Lathe:	Included with Vert. Turntable / Horiz. Lathe
Improved resolution of silhouettes	Included with Vert. Turntable / Horiz. Lathe
Direct STL scaling	Included with Vert. Turntable / Horiz. Lathe
Offset input	Included with Vert. Turntable / Horiz. Lathe
Export processed file in STL	Included with Vert. Turntable / Horiz. Lathe
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 Vert. Turntable / Horiz. Lathe
Automatic wire positioning for turnings / lathe machining	Included with Vert. Turntable / Horiz. Lathe
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
Multiple wire harp position management menu	Include with multiple wire harp
Automatic speed management via tilt menu	Included with Clevel
Data manager	Included with Industry 4.0



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The technical features may change depending on the product chosen by the customer. Pictures are purely demonstrative and indicative. For a better identification and for business information, please contact NETTUNO SISTEMI at the following email address: commerciale@nettunosistemi.com