Catalog.

Nettuno Sistemi



Advanced CNC
hot wire cutting systems.

Made in Italy

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About us

Nettuno Sistemi has been designing and manufacturing CNC hot-wire cutting machines for polystyrene since 2000.

Backed by over 20 years of experience, we are a leading company in the development of 2D and 3D systems, combining the excellence of Italian craftsmanship with advanced technology.

We design with one goal in mind: simple and effective solutions.

We develop high-performance machines and intuitive in-house software, designed to be accessible even to users without advanced technical skills.

We go beyond building machines; we offer a true partnership. We understand the challenges of the market and provide specialized technical support, always by your side.

It’s not like the others.



Hot Wire **CNC**

Mammut.



Known as the “giant of large-scale production cycles,” Mammut stands out for its fully CNC-milled, modular steel structure, which allows the work area to be extended to cut polystyrene blocks up to 4500 mm long.

Equipped with brushless motors with absolute encoders and a 5-axis independent system, Mammut ensures smooth movement and millimeter-level precision.

Its exclusive automatic wire tensioning system allows for virtually unlimited wire inclination, reaching the maximum possible diagonal across the cutting area, making it possible to perform highly complex cuts.

Mammut is designed to be the most customizable machine in the entire Nettuno Sistemi range, allowing you to create the perfect combination of accessories for your specific production needs.

Technical details

Overall dimensions: 6500 x 3500 x 2000 mm	Motors: Brushless with absolute encoder
Cutting area: X 3020 Y 1250 Z 1300- 4500 mm	Table top: 4 marble sliding table tops
Structure: CNC milled steel structure	Power supply: 220/230V 50/60Hz | 2 kW
Max. axes speed: 25 m/min	Wire tensioning: Automatic
Movement accuracy: +/- 0.03 mm	Console: Included Dell HMI
Adjustable wire length: Auto. 1300 - 4500 mm	Number of axes: 5 independent

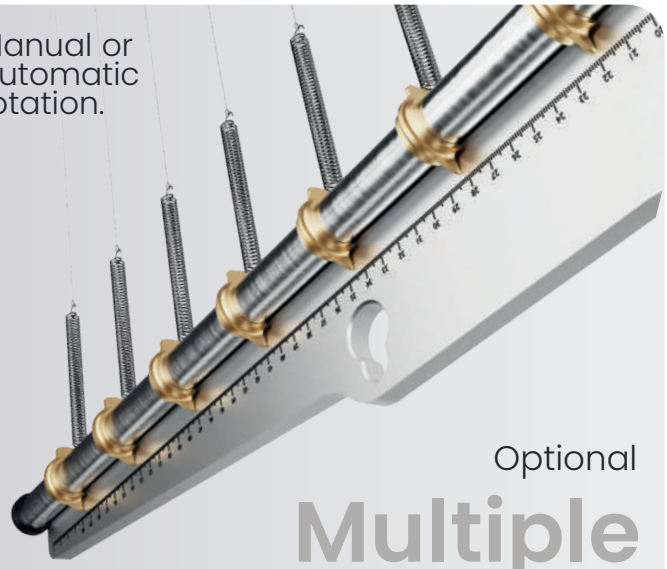
Check out Mammut accessories on the next page



Optional

Milling router

4 axes



Manual or automatic rotation.

Optional

Multiple wire harp

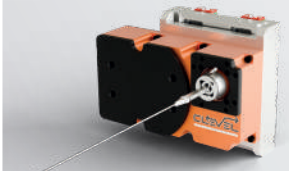
Z-axis extension

Increases the Z cutting area up to 6000 mm

Optional

Clevel

Smart hot wire





Optional

Extra tables

Included: 4
Optional: up to 3

Optional

Rotating table



Optional

Vertical turntable



Optional

Horizontal lathe



Included

Keypad





Optional

Standard carver

Optional



Tangent carver

Included

Console



Hot Wire **CNC**

Infinity Sniper



The ultimate expression of completeness and versatility, Infinity Sniper features a smooth rail-based structure that extends the work area up to 4,200 mm.

It delivers unrestricted performance—from industrial cycles to ultra-precise cuts. Equipped with a 6-axis independent system, it ensures millimeter-level accuracy thanks to its exclusive friction drive, which allows the wire to tilt without limits.
Infinity Sniper offers maximum creative freedom, coming standard with 3D accessories.
Combined with intuitive software and a convenient keypad, it is the ideal solution for those seeking the perfect balance between high performance and ease of use in construction, set design, and visual communication.

Technical details

Overall dimensions: 6000 x 3100 x 2000 mm	Motors: Servo
Cutting area: X 2620 Y 1250 Z 1300- 4200 mm	Table top: Sliding made of Compacmel Plus
Structure: Steel & anodised aluminium profiles	Power supply: 220/230V 50/60Hz | 1,5 kW
Max. axes speed: 13 m/min	Wire tensioning: Automatic
Movement accuracy: +/- 0.05 mm	Console: Included Dell HMI
Wire length: Adjustable 1300 - 4200 mm	Number of axes: 6 independent

Accessories

Optional: Clevel, Multiple wire harp
Included: Vertical turntable, Horizontal lathe, Carver, Console, Dell workstation, Keypad, Software

Hot Wire **CNC**

400I Sniper



400I Sniper is a state-of-the-art CNC hot-wire cutting machine, designed for industrial automation in the processing of expanded, extruded, and graphite-enhanced polystyrene.
Thanks to its 4 independent axes and its exclusive patented wire tensioning system, this Made in Italy CNC machine performs complex cuts with unlimited wire inclination angles.

400I Sniper features a robust fixed-frame structure, driven by servo motors and managed by a microprocessor-based thermal control system.

It ensures outstanding accuracy and maximum cutting smoothness, making it a versatile and customizable solution for the construction industry, stage design, prototyping, and visual communication applications.

Technical details

Overall dimensions: 4200 x 3200 x 2050 mm	Motors: Servo
Cutting area: X 2620 Y 1250 Z 2500 mm	Table top: Compacmel Plus
Structure: Steel & anodised aluminium profiles	Power supply: 220/230V 50/60Hz | 1,5 kW
Max. axes speed: 13 m/min	Wire tensioning: Automatic
Movement accuracy: +/- 0.05 mm	Console: Included Dell HMI
Wire length: 2500 mm	Number of axes: 4 independent

Accessories

Optional: Vertical turntable, Horizontal lathe, Carver, Clevel, Multiple wire harp
Included: Console, Dell workstation, Keypad, Software

Hot Wire **CNC**

Plot 250



Plot 250 is the ideal professional cutting plotter for those looking to enter the world of hot-wire cutting with a simple, fast, and functional solution.

Designed as a high-performance, user-friendly solution, it stands out for its competitive cost and exceptional ease of use, making it accessible even to users without previous technical experience.

Its steel Open-Frame structure provides immediate access to the working area and complete visibility of the cutting process, allowing easy handling of blocks in different shapes and sizes.

Moreover, the machine is designed for quick installation in just a few steps, enabling users to start creating immediately after delivery.

Technical details

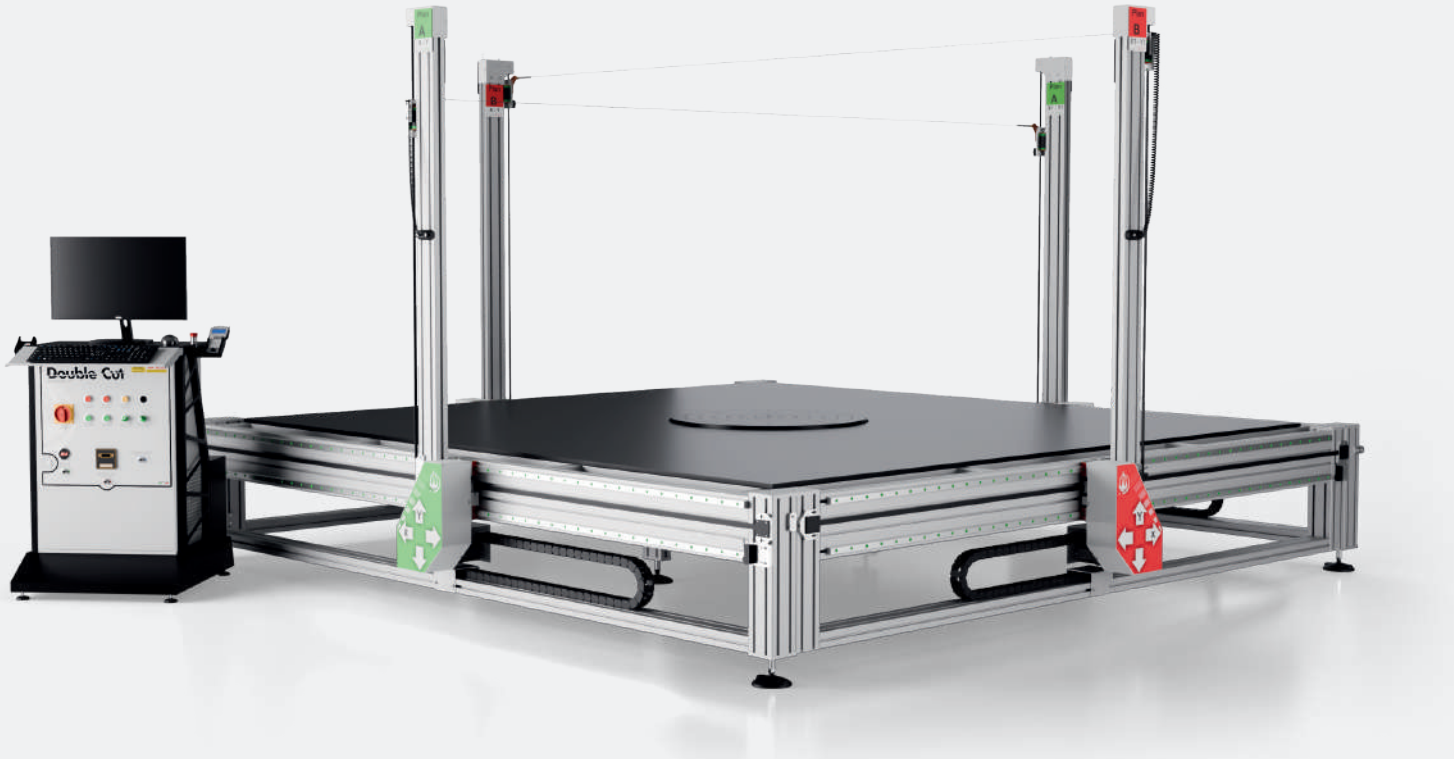
Overall dimensions: 3200 x 2400 x 1900 mm	Motors: Stepper
Cutting area: X 2500 Y 1250 Z 2000 mm	Table top: Powder coated steel
Structure: Powder coated steel	Power supply: 220/230V 50/60Hz | 1 kW
Max. axes speed: 13 m/min	Wire tensioning: Springs
Movement accuracy: +/- 0.05 mm	Included console: Optional Dell HMI
Wire length: 2000 mm	Number of axes: 4 independent

Accessories

Optional: Vertical turntable, Carver, Dell workstation, Keypad
Included: Console, Software

Hot Wire **CNC**

Double Cut



Double Cut is the innovative 8-axis independent CNC machine designed to deliver maximum precision when cutting all four sides of a polystyrene block.

Thanks to its dual orthogonal hot-wire technology, all operations are performed automatically without ever having to reposition the workpiece from its original position.

Its open-frame structure in anodized aluminum provides complete visibility of the working area and easy loading, while the recirculating ball bearing linear guide system enables extremely smooth movements and maximum precision.
Designed for efficiency and versatility, Double Cut is the ideal solution for advanced foam processing applications requiring high-quality results.

Technical details

Overall dimensions: 3300 x 3200 x 2000 mm	Motors: Stepper
Cutting area: ZA 2500 Y 1250 ZB 2300 mm	Table top: Compacmel Plus
Structure: Anodised aluminium profiles	Power supply: 220/230V 50/60Hz | 1 kW
Max. axes speed: 13 m/min	Wire tensioning: Springs
Movement accuracy: +/- 0.05 mm	Console: Included Dell HMI
Wire length: Plan A 2500 - Plan B 2300 mm	Number of axes: 8 independent

Accessories

Optional: Vertical turntable, Carver
Included: Console, Dell workstation, Keypad, Software

Hot Wire **CNC**

300C Series



The 300C and 300C Plus series hot-wire CNC machines were designed as essential partners for insulation professionals, these machines are optimized for the custom production of roller shutter boxes, insulation panels, and components requiring perfect architectural integration.

While the standard 300C offers an intuitive and accessible solution for those seeking precision without compromising cost efficiency, the Plus version takes performance to the next level thanks to high-precision servo motors and an automatic wire tensioning system.

This advanced technology enables extreme wire inclination, making it possible to achieve complex conical cuts that cannot be performed with traditional machines.

Technical details

●300C Plus ●300C Standard

Overall dimensions: 4000 x 1800 x 2100 mm ●●	Motors: 300C Plus Servo● 300C Standard Stepper●
Cutting area: X 1400 Y 1250 Z 3000 mm ●●	Table top: Compacmel Plus ●●
Structure: Anodised aluminium profiles ●●	Power supply: 220/230V 50/60Hz | 1 kW ●●
Max. axes speed: 13 m/min ●●	Wire tensioning: 300c Plus: Automatic ●
Movement accuracy:+/- 0.05 mm ●●	Wire tensioning: 300c Standard: Springs ●
Wire length: 3000 mm ●●	Number of axes: 4 independent ●●

Accessories

Optional: Vertical turntable ●●, Carver ●●, Multiple wire harp ●●, Dell HMI (300c Standard)●
Included: Console ●●, Dell HMI (300C Plus)●, Keypad ●●, Software ●●

Hot Wire **CNC**

Cream 200



Cream 200 is a CNC hot-wire cutting solution specifically designed for the needs of the visual communication, architecture, and design sectors.

Thanks to its compact dimensions and competitive price, it is the ideal tool for graphic studios and professional workshops focused on the creation of signage, logos, and 3D displays.
Despite its compact size, the machine delivers uncompromising performance: it integrates the same powerful Nettuno software that drives the larger models in the range, providing an intuitive interface and advanced features.
Its robust structure, equipped with a recirculating ball bearing linear guide system and toothed belt drive, ensures stability and millimetric accuracy in every detail, making 3D polystyrene cutting extremely simple and effective.

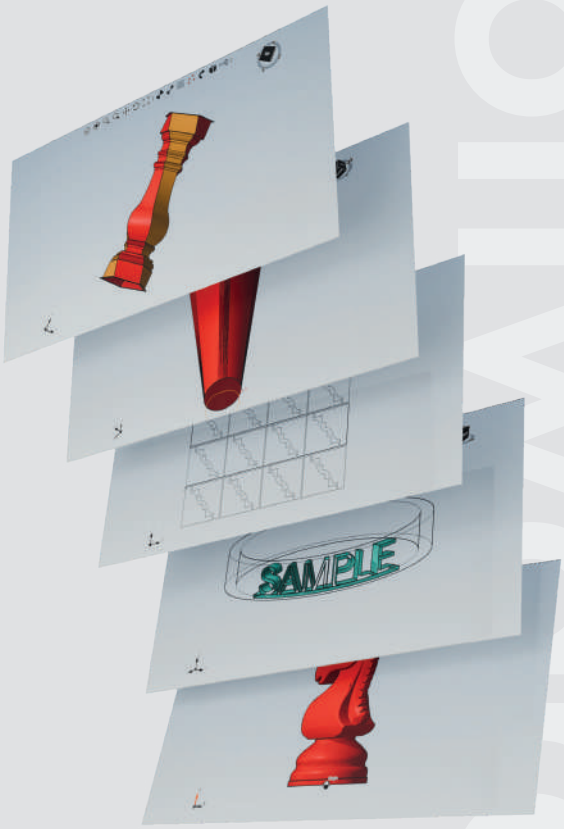
Technical details

Overall dimensions: 2500 x 1050 x 1800 mm	Motors: Stepper
Cutting area: X 2000 Y 1250 Z 700 mm	Table top: Powder coated steel
Structure: Powder coated steel	Power supply: 220/230V 50/60Hz | 0,35 kW
Max. axes speed: 10 m/min	Wire tensioning: Springs
Movement accuracy: +/- 0.05 mm	Console: Integrated control panel
Wire length: 700 mm	Number of axes: 2 + Optional vertical turntable

Accessories

Optional: Vertical turntable, Dell workstation, Keypad
Included: Software

Simple.
Intuitive.



Specifically designed and developed in-house, Nettuno software is the extra edge that makes our company a leader in hot-wire cutting technology for polystyrene processing machines.

The result of years of experience and ongoing investment in research and development, Nettuno offers a one-of-a-kind interface in the industry, divided into two distinct applications: Nettuno Docker Cam and Nettuno Cutter.

Our machines come with all the basic software needed to get started right away.



Nettuno docker cam.

An integrated CAD/CAM environment that streamlines toolpath creation for every type of machining, from 2D cutting to complex operations with simultaneous turning or independent axes.

With file import capabilities and real-time 3D visualization, you can preview the final result before execution, ensuring precision and operational safety.

Most common file imports.
DXF DWG EPS AI PDF HPGL-PLT WMF SVG STL

Nettuno cutter.

Nettuno cutter is the interface that communicates directly and seamlessly with the machine. The workspace is divided into seven management areas, organized into intuitive windows, each dedicated to a specific function.

At the center, an interactive 3D simulation replicates the machine in real time, tracking its movements while simultaneously calculating the estimated completion time.

Before starting the process, a preview simulation allows you to check the position of the axes, ensuring full control and safety prior to execution.

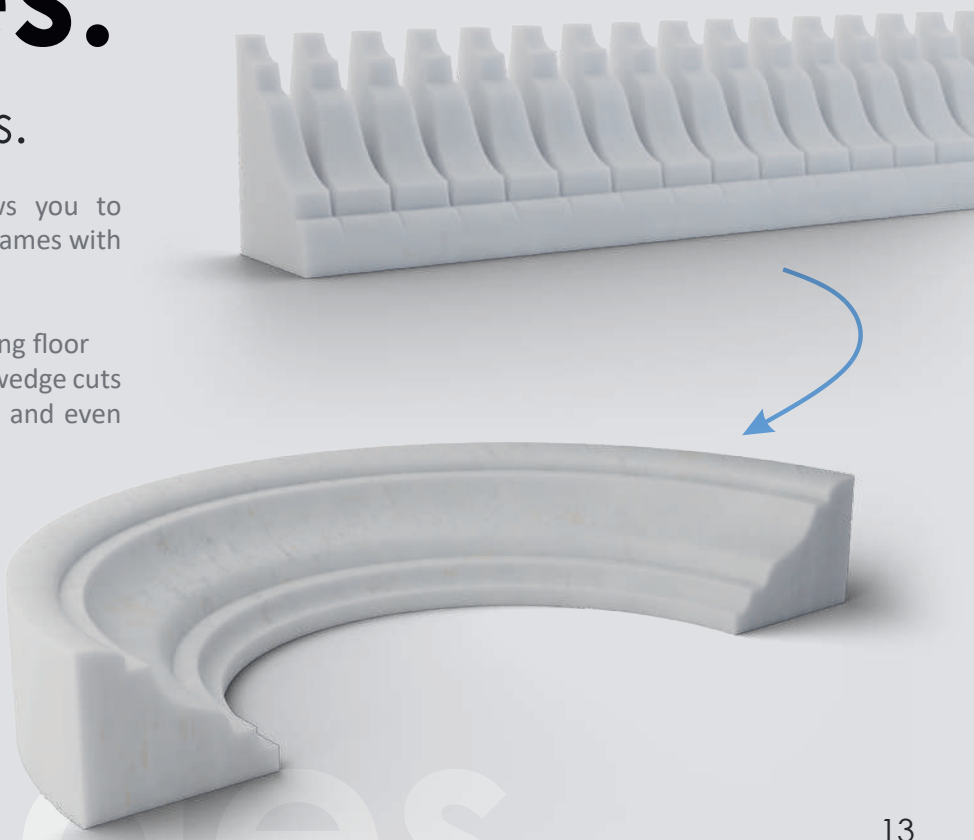


Wedges.

Design segment cuts.

The included Wedges application allows you to perform wedge cuts, arches, and curved frames with exceptional precision and speed.

By importing a DXF shape, such as a building floor plan, Wedges can automatically generate wedge cuts to create curves, arches, frames, ellipses, and even “S”-shaped forms.



Complete performance for
Creative minds.

The complete workstation includes: PC, monitor, keyboard, mouse, and all Nettuno software to get you up and running quickly.

Optional Dell workstation for: 300C standard edition, Plot 250 and Cream 200.



Computer.

Dell OptiPlex XE4: flawlessly supports the Nettuno software.

Monitor.

Dell 27-inch Full HD monitor: spacious, sharp, and reliable.

Software.

The in-house developed software is intuitive and user-friendly.

The **mind** behind the machine.



Stability

Supports PCs and monitors with total security.

Control

Manage movements with absolute precision.

Comfort

Ergonomic workstation for total freedom.

Wireless Keypad

The keypad is the perfect accessory for those who want to work with more comfort, flexibility, and control.

Optional accessory for:
Plot 250 and Cream 200



keypad



Lightweight

Handheld

Intuitive

Full control at your fingertips.

It allows you to perform operations such as jog movement, start, pause, and stop of processes, speed adjustment, lathe rotation control, and viewing of axis coordinates, all remotely.

Multiple wire harp



The multiple wire harp is the ideal solution for scaling up from one-off parts to true high-volume production.

Its primary function is to cut an entire material block in a single pass, producing multiple identical parts simultaneously.

Wire spacing can be adjusted quickly and accurately thanks to the integrated metric scale.

The harp can be manually positioned vertically, horizontally, or diagonally, allowing it to adapt to a wide range of cutting applications.

Up to 20 titanium wires.

Optional for: Mammut, Infinity Sniper, 400I Sniper, and the 300C Series.
It allows for the installation of up to twenty titanium wires, which can be configured according to production needs to produce multiple identical parts simultaneously. This system greatly increases the company's production speed and ensures that every part produced is perfectly identical to the others.

Shapeable hot wire.

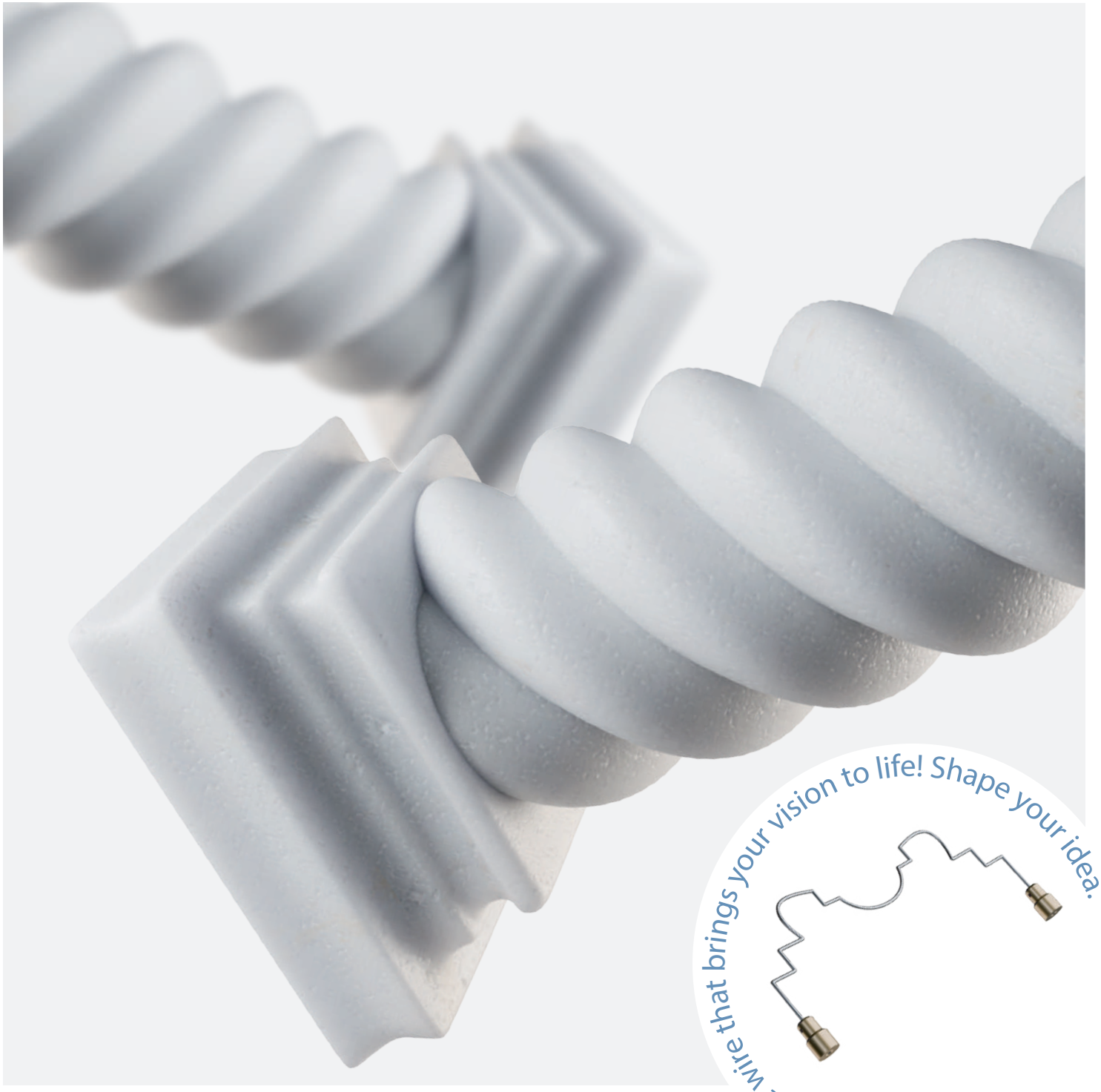
Optional for:
Mammut, 400I Sniper, 300C Series, Double Cut e Plot 250

Included with:
Infinity Sniper

The carver enables operations that are impossible with traditional systems. Using a rigid wire that can be shaped by hand, it allows you to create recesses, sculptures, and irregular shapes freedomly.

Seamless integration with the Nettuno software ensures dynamic control of speed and depth, guaranteeing uniform surfaces and flawless details free of vibrations or imperfections.

This accessory reaches its full potential when used in sync with a vertical or horizontal lathe, becoming the ultimate tool for shaping complex 3D forms with absolute control.



The cut goes smart.

Automatic Speed Adjustment System
Patented by Nettuno Sistemi.

Optional for:
Mammut, Infinity Sniper and 400l Sniper.



Clevel automatically adjusts the wire speed in real time, adapting to the material. No supervision neede, no risk of errors. The machine works perfectly while you can relax, listen to music or focus on other tasks.

Adjustable along the
entire **height** of the machine.



Vertical turntable.

Compatibility: Optional with Mammut, 400I Sniper, Plot 250, 300C Series, Double Cut, and Cream 200. Included with Infinity Sniper. The vertical turntable is designed to take polystyrene cutting beyond linear dimensions and open the door to more advanced three-dimensional machining. It allows polystyrene blocks to be machined in a vertical position, so that the hot wire can act on the entire surface thanks to a full 360-degree rotation.

Adjustable along the
entire **width** of the machine.



Horizontal lathe.

Designed for machining operations that extend along the length of the workpiece, the horizontal lathe features a different structural configuration than the vertical version.

The workpiece is positioned along the machine's X-axis and supported by a tailstock, which ensures stability and alignment throughout the machining process, allowing the entire length of the workpiece to be machined.

Compared to the vertical turntable, which is optimized for machining in the vertical direction, this configuration is ideal for longitudinal geometries, maintaining precision and uniformity throughout the entire cut.

Compatibility

Optional for Mammut and 400I Sniper
Included with Infinity Sniper



CNC **milling** machine

Ercolina Plus



Ercolina Plus is a professional three-axis linear CNC milling machine, designed to perform precision engraving and create customized products with high-quality finishes.

Its versatility allows it to process not only polystyrene, including EPS and XPS, but also wood, plexiglass, metal alloys, and thermoplastic materials, adapting to a wide range of production requirements.

The anodized aluminum structure, combined with servo motors and recirculating ball bearing guides, ensures outstanding rigidity, smooth motion, and high accuracy.
The working area is fully protected by a plexiglass safety enclosure with sliding doors and safety sensors, while the pneumatic clamping system keeps the workpiece firmly secured, reducing vibrations and ensuring precise, clean results.

Technical details

- Overall dimensions: 2750 x 2250 x 2300 mm
- Cutting area: X 2050 mm Y 1250 mm Z 250 mm
- Structure: Anodised aluminium profiles
- Max. axes speed: 15 m/min
- Movement accuracy: +/- 0.05 mm
- Spindle turns: 18.000 RPM
- Motors: Servo
- Table top: Anodised aluminium
- Power supply: 220/230V (1F+N) 50/60Hz 2 kW
- Handhel control device: Included
- Console: Included Dell HMI
- Number of axes: 3

Integrated Solutions.

Specially designed and developed in-house, Ercolina Plus's Nettuno software is the edge that makes our company a leader in the field of CNC machine manufacturing for polystyrene processing.

Ercolina Plus's Nettuno software optimizes every machining operation with an intuitive interface and advanced control tools. Precision, real-time monitoring, and consistently reliable results.

Ercolina plus include il controllo attraverso mobile (incluso).



Software

Technology at its core.



Intuitive interface.

A simple, intuitive interface that lets you set up the machine in just a few steps so you can focus on your work right away.

Preview of Production

View the path, estimate the time required, and monitor the tool's position in real time to avoid errors and optimize each step.

Smart Restart.

The axes remember their positions: you can pick up exactly where you left off, without having to recalibrate anything.

Squaring **machine**

SQ 5000 AWS



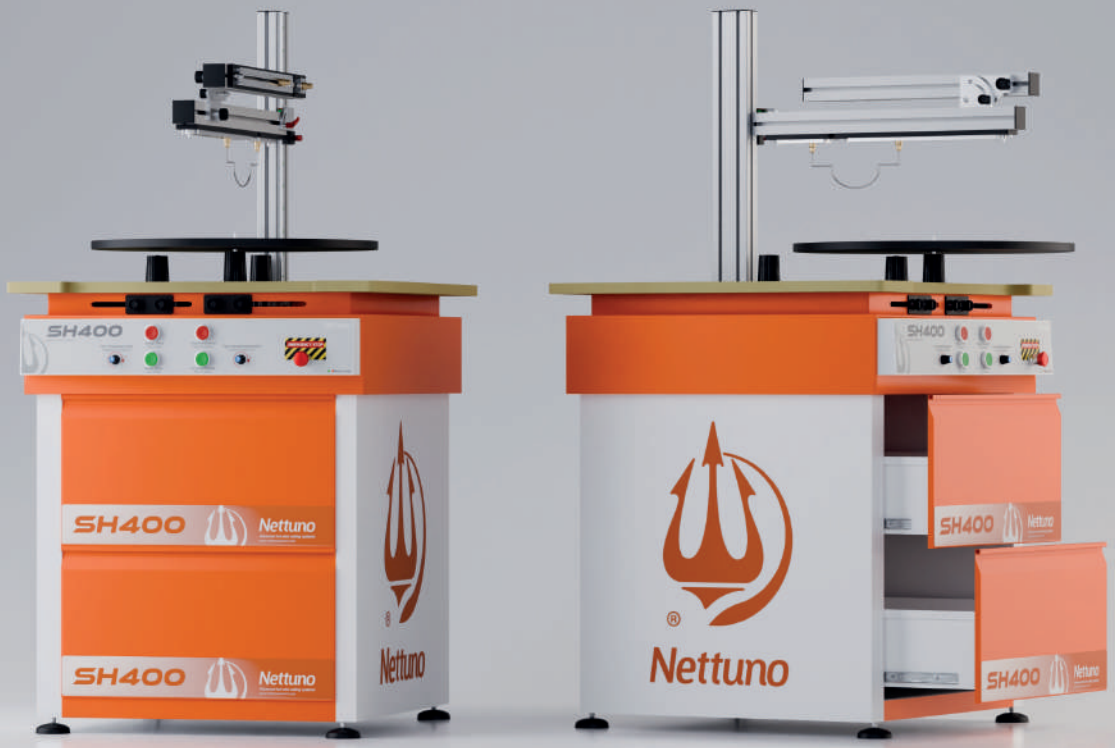
The SQ 5000 AWS Squaring Machine is an advanced CNC solution designed for trimming and cutting polystyrene blocks, including EPS, XPS, and graphite-enhanced foam, with consistent efficiency and precision.
Developed for thermal insulation applications and industrial production, it ensures high productivity and superior quality results.
The dual multi-wire harp system with automatic positioning reduces setup times and minimizes manual intervention.
The machine is operated through an intuitive touchscreen interface, with the ability to create customized machining processes.
Servo motors and linear guides ensure smooth and stable movements, while the steel table top with pneumatic clamps keeps the block securely positioned during processing.

Technical details

- Overall dimensions: 5800 x 2410 x 3150 mm
- Maximum axes speed: 25 m/min
- Structure: Anodised aluminium profiles
- Cutting area: Y 1450 X 4200
- Wires length, horizontal harp: X 1400 mm (60 wires)
- Wires length, vertical harp: Y 1800 mm (20 wires)
- Motors: Servo
- Table top: Powder coated steel
- Power supply: 220/230V 50/60Hz 12,5 kW
- Wire tensioning: Springs
- Console: Included HMI touch screen
- Number of axes: 3

Hot wire **shaper**

SH 400



SH 400 is a semi-automatic shaping machine designed for the construction industry. It allows the easy production of curved mouldings, arches, and decorative elements in EPS, XPS, and graphite-enhanced polystyrene, offering versatility and precision in ornamental applications.

The core of the shaper is its manually shapeable hot wire, which can be modeled according to customer requirements to create customized profiles such as capitals, lintels, and cornices.

Its compact and robust structure, made of powder-coated steel with anodized aluminum profiles, includes two convenient drawer compartments for tools. The integrated control panel provides intuitive and safe operation, with simple adjustment of feed speed and wire temperature.

Technical details

- Overall dimensions: 800 x 820 x 1500 mm
- Structure: Powder coated steel
- Movement accuracy: +/- 0.05 mm
- Max. wire length: 500 mm
- Cornices: Width 600 mm | Height 800 mm
- Minimum internal radius: 130 mm

- Motors: Stepper
- Table top: 800 x 800 mm in HDF
- Power supply: 220/230V 50/60Hz 0,5 kW
- Type of wire: Shapeable Nickel-Chrome wire/foil
- Vertical turntable: Optional
- Number of axes: 1

Dicer machine

Chips Maker



Chips Maker is Nettuno Sistemi's professional foam dicing machine, designed to transform polystyrene waste, including EPS, XPS, and graphite-enhanced foam, into a valuable and eco-friendly resource.

It provides a sustainable solution for industrial waste management, reducing scrap material into reusable chips or cubes for packaging applications or recycling, with significant savings on the cost of new materials.

The technological core of the Chips Maker is its dual crossed multi-wire harp system, featuring a total of 120 titanium wires.

Thanks to dedicated potentiometers, the operator can precisely control wire temperature and the speed of the motorized harp, customizing the chip size, length, and thickness according to specific protection and filling requirements.

Technical details

- Overall dimensions: 1280 x 1065 x 2200 mm
- Structure: Anodised aluminium profiles
- No. of harps: 2 (1 Stationary + 1 Movable)
- Max no. of wieres: 80 stationary | 40 movable
- Wires length: 670 x 670 mm
- Movable harp stroke: 30 mm
- Minimum distance between wires: 15 mm
- Wires tensioning: Springs
- Power supply: 220/230V (1F+N) 50/60Hz 7,5 kW
- Bag holder discs: 2
- Motors: Stepper
- Movement accuracy: +/- 0.05 mm

Manual cutters

TM Series



The TM Series is designed to optimize the installation of external thermal insulation systems (ETICS), ensuring millimetric accuracy and outstanding ease of use.
The telescopic structure combines lightweight design with strength, while the integrated handle and foldable stand make transportation easy, even by car.

The TM Line model features a dual support platform, metric-scale side flaps, and an integrated stop guide for enhanced stability and quick measurements, with the option to add a lateral bow with a second hot wire for complex angled cuts.
The TM Slim, compact and functional, maintains the same high-quality standards.

Both models can process panels up to 1250 mm in height and 280 mm in thickness, with an integrated wire spool for quick wire replacement.

Technical details

●TM Line ●TM Slim

Overall dimensions: 1000 x 1200 x 1900 mm	●
Overall dimensions: 1000 x 800 x 1900 mm	●
Structure: Aluminium and steel	●●
Cutting length: 1250 mm	●●
Cutting depth: 280 mm	●●
Type of wire: 0,40 mm NiCr	●●

Panel holder: 2 Tiltable | 1200 mm	●
Panel holder: 1 Tiltable | 600 mm	●
Power supply: 115/230V 50/60Hz | 0,12 kW	●●
Wire tensioning: Springs	●●
Extra side arch: Opzionale only for TM Line	●
Weight: Line 18 kg - Slim 17 kg	●●

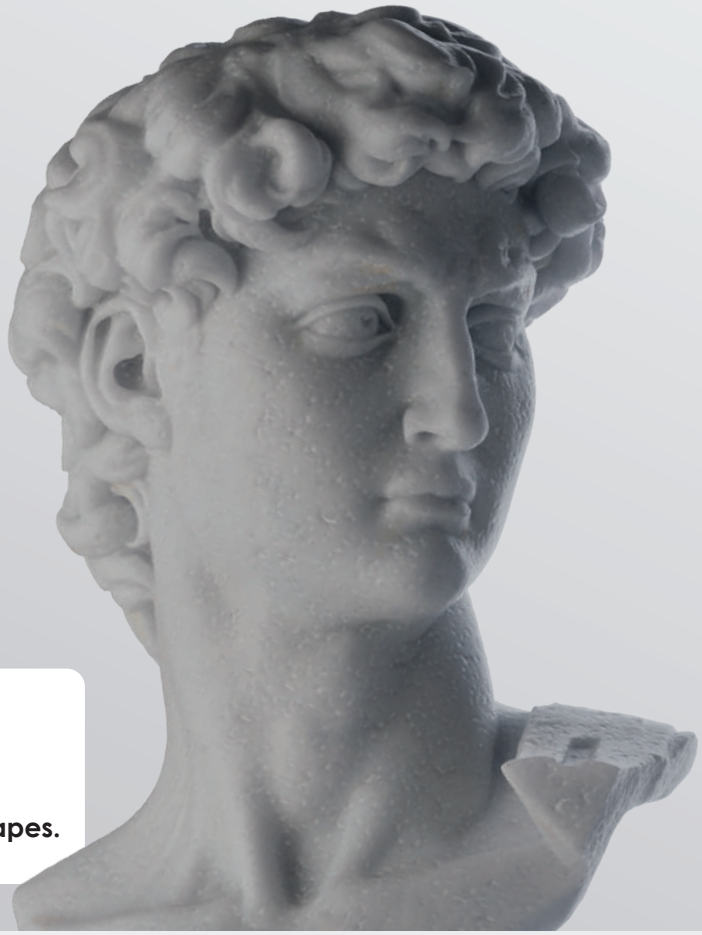
Scan the idea.



Sculpt the unique.

Combine 3D scanning with CNC machining to transform real-world objects into digital models ready for milling. Every detail is captured with extreme precision and faithfully reproduced, reducing machining time, minimizing errors, and ensuring perfect results even on the most complex geometries.

Scan, then mill.



Imagine being able to combine the power of 3D scanning technology with the precision of a CNC milling machine.

This synergy allows you to turn every project into a masterpiece, no matter how complex it is.

You can faithfully reproduce every detail of the original model and move directly to machining with flawless results.

Reduce design time.

Replicate existing ideas.

Reproduce complex shapes.

Completeness.



*The 3D scanner is not a product manufactured or sold directly by Nettuno Sistemi. It is used as a solution compatible with machines equipped with a milling cutter, such as the Mammut and Ercolina Plus, for digitization and machining applications. Upon request, we can assist customers in procuring the scanner.

Your vision, powered by our systems.

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Nettuno

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