



Biesse
Machinery

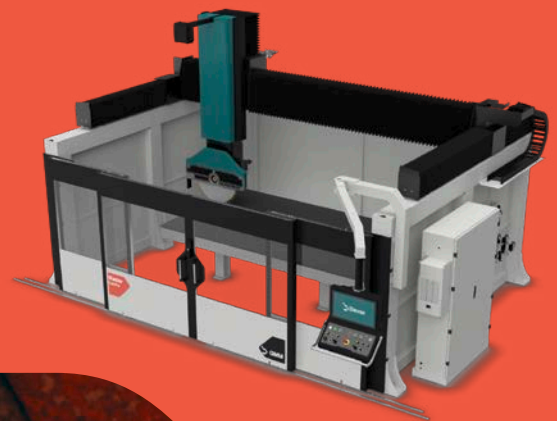
Stone



GMM

Master Cut Pro C W E

Cutting | Comby



Biesse



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Master

Machines

Genius

Extended Machines

Identify in a few words
the most suitable machine
for your needs from
our product portfolio.

Machining type

Cut

Cutting

Edge

Edging

Fin

Finishing

Multi

Multi-machining

Segment

Pro

Distinctiveness
and performance

Up

Agility
and expertise

Go

Simplicity
and compactness

Find your perfect fit

Reliable. Precise. Built to perform.

The Master Cut Pro C W E is a 5-axis CNC bridge saw for slabs and medium-to-small thick stone blocks. Its robust structure and high-precision 5-axis head deliver straight, inclined, curved, shaping and fully custom cuts with outstanding accuracy and efficiency, supported by an 800 mm Z-axis stroke and a Ø 825 mm blade diameter for deeper, more versatile machining.

Ideal for homeware, architectural and funerary applications, it performs flawlessly in both repetitive workflows and bespoke production.



Master Cut Pro C W E



Human Machine Interface

Control at your fingertips: smart, intuitive and ready to go. The 21" ergonomic multitouch HMI is integrated into the machine controls, supported by GMM software designed to be simple, innovative and intuitive, enabling quick and efficient start-up of any stone-processing job.

Tool Diameter Reader

Real-time control for flawless machining. The Tool Diameter Reader precisely measures cutting tools and integrates with the machine software. It monitors wear and enables automatic adjustments, ensuring reliable, consistent, and highly accurate processing every time.

Vacuum System

Save time and energy. The Vacuum System, integrated on the machine head, automatically handles parts across the worktable. Aligned with the Z-axis, its design minimizes backlash and torque, ensuring maximum stability and efficiency.

Camera

The right point of view. The Camera, integrated on top of the machine head, moves with it to capture the optimal perspective of each slab. This ensures precise edge detection, accurate measurements, and efficient, error-free machining.

5 Axis Technology

Unlock complex cuts with ease. The 5-axis bridge saw enables advanced stone processing with precision. Its head moves and rotates in multiple directions, allowing complex shapes and angles to be cut efficiently, all while maintaining stability and accuracy.

Automatic tool changer

Smooth transitions for nonstop productivity. The automatic tool magazine, available with 12 or 24 ISO40 positions, enables fast tool changes and keeps machining workflows efficient, even when handling large or heavy tooling setups.

Slab Thickness Reader

Automatic precision for perfect cuts. The Slab Thickness Reader measures slab thickness and automatically compensates for variations. This ensures consistent cutting accuracy, optimized material use, and precise results, even for complex operations like inclined cuts.

Lathes

Precision shaping made simple. Lathes rotate the workpiece for accurate turning operations, allowing smooth and controlled material shaping. They support a wide range of configurations, making them versatile tools for diverse machining needs.

Materials

- Ns** Natural Stone
- Es** Engineered Stone
- Ss** Sintered Stone

Stone

We design and manufacture stone-processing machines for the furniture, building and construction sectors, delivering the ideal solution for specific production requirements.



Homeware
furnitures



Homeware
decorations



Architectural



Funerary



Building
decorations

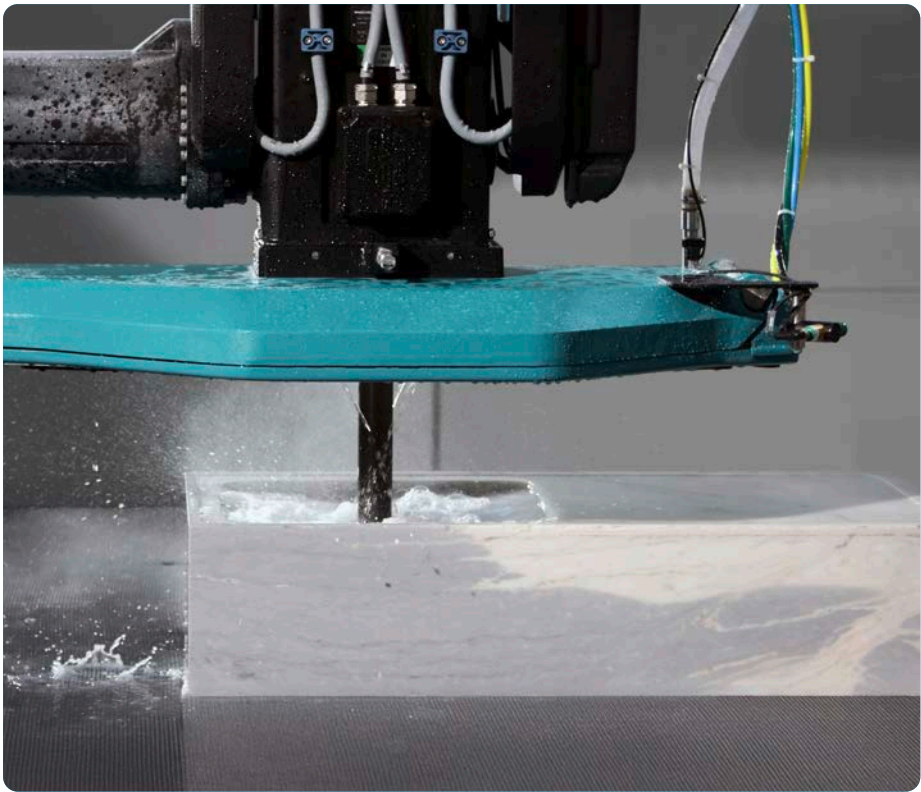


Outdoor
furnitures



Cutting

The machine is engineered for precise slab cutting with saw blades up to 925 mm in diameter, ensuring the right balance between versatility and performance across different materials. With a maximum cutting depth of 350 mm, it delivers accurate and efficient processing of both medium and thick slabs while maintaining high stability throughout the operation. This cutting capability enhances production flexibility and reliability, making the machine a dependable solution for workshops that require consistent and precise results.



Shaping

Thanks to its fully interpolated 5-axis motion, the machine performs advanced shaping operations that transform raw slabs into finished architectural and custom stone elements. It executes contouring, edge profiling, milling, drilling, lettering and spiral geometries directly from CAD programs, allowing the production of mouldings, complex cut-outs, decorative details and sculpted components with high precision and repeatability. This capability enables workshops to move beyond straight cutting and handle bespoke projects, intricate geometries and value-added stone fabrication with consistent quality across marble, granite and engineered materials.

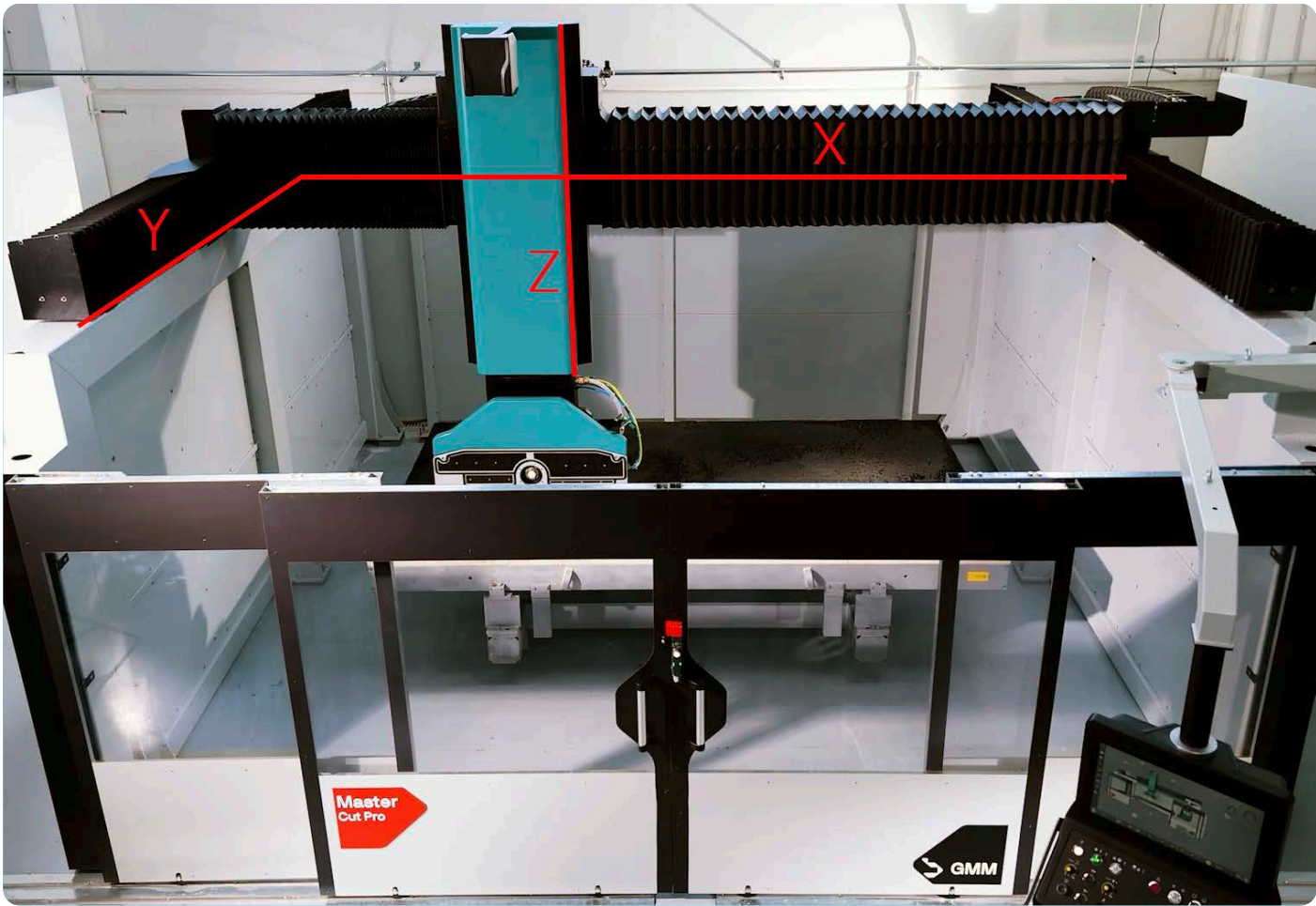


Modular and Configurable Machine Layout

The modular machine architecture allows structural dimensions to be configured according to specific production layouts and workspace constraints. The configurable beam length enables tailored configurations that optimize workflow and space utilization, while the modular structure ensures efficient integration within different production environments. For greater installation flexibility, steel walls can be supplied as an alternative to standard concrete walls, allowing the machine to adapt easily to both compact workshops and large-scale industrial setups.

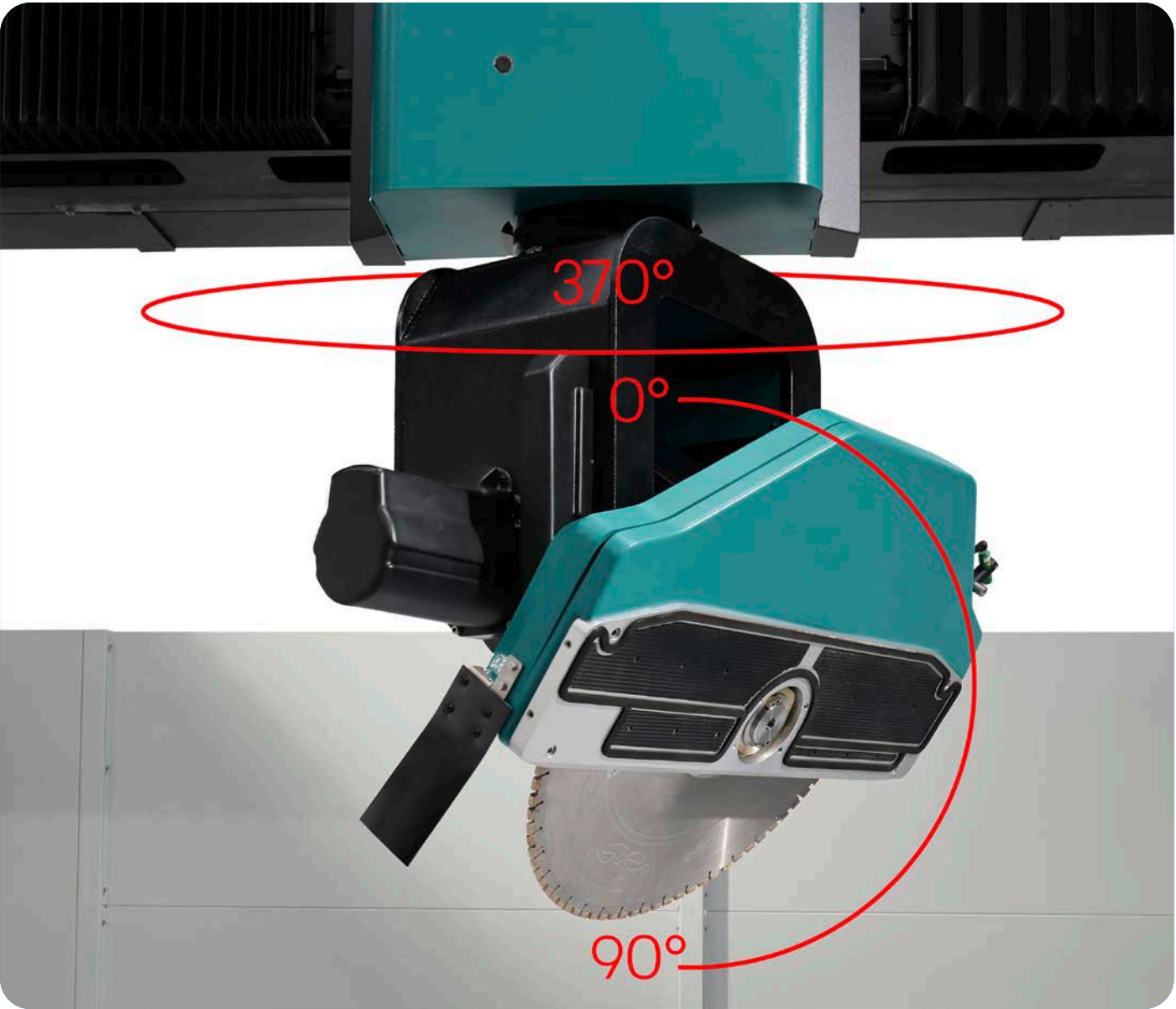
Complex machining made simple with 5-axis technology

A 5-axis bridge saw delivers high-precision stone processing thanks to its rigid bridge structure and fully interpolated movement across all linear and rotary axes. The complete 5-axis configuration enables complex machining in a single setup, improving accuracy and overall workflow efficiency. Compatible with CAD/CAM programming, it executes advanced tool paths such as angled cuts, contouring, pockets, profiles and 3D elements while maintaining optimal tool orientation for superior finish quality and reduced tool wear. From countertops and mitered edges to multi-depth decorative pieces, a 5-axis bridge saw offers outstanding versatility, precision and productivity for both artisan and industrial applications.



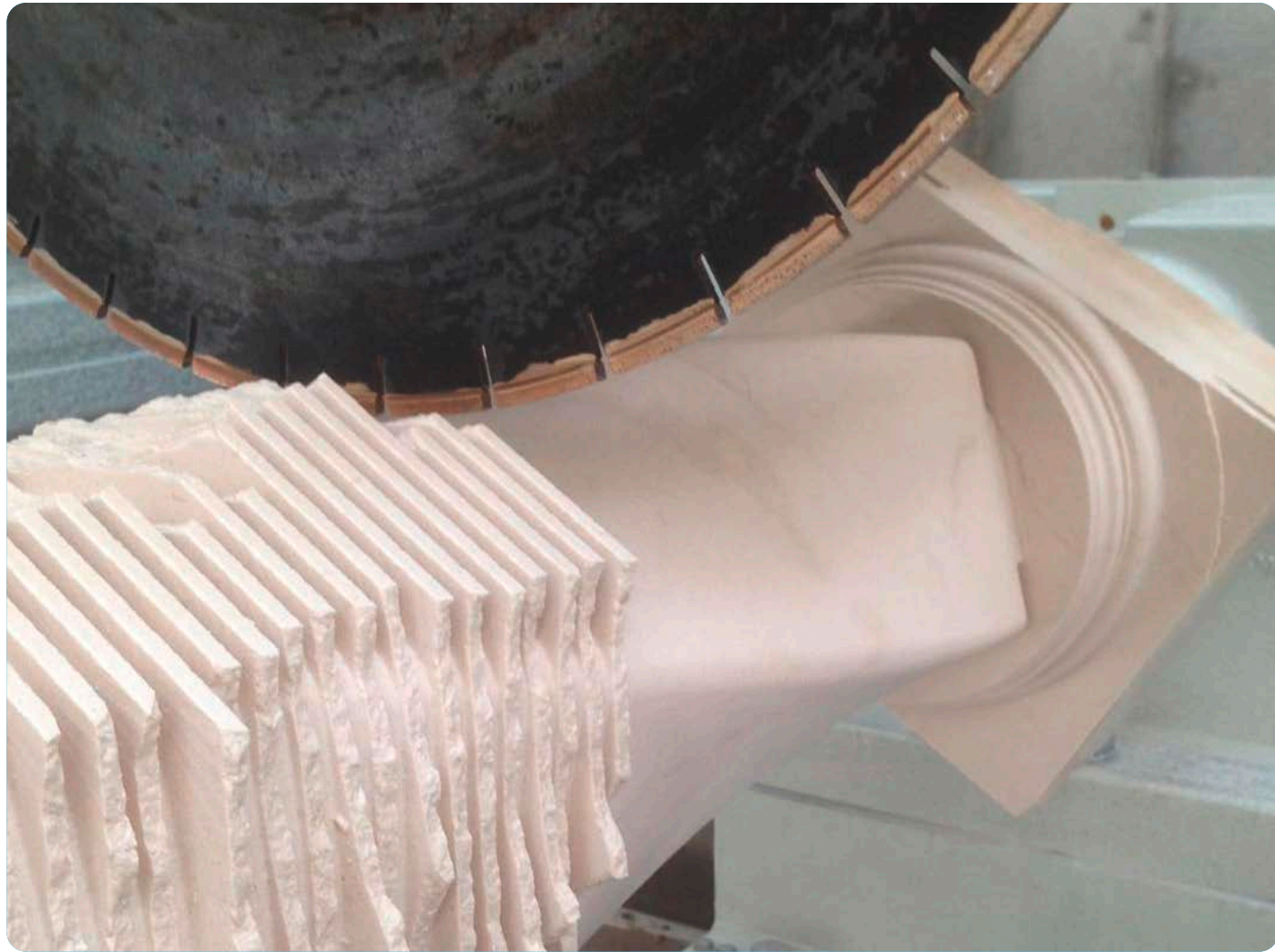
X-Y-Z axes

X, Y, Z control positioning and depth, forming the fundamental 3D workspace for any kind of processing.



Tilting and Rotating axes

The tilting movement pivots the head vertically to position the tool at the optimal working angle, with a travel range from 0° to 90°. This motion allows accurate execution of angled cuts, edge processing and shaping operations while maintaining stability and precision. The rotating movement turns the head around the vertical axis with a continuous range from 0° to 370°, providing full circumferential access to the workpiece without repositioning. This capability improves machining accuracy, reduces setup time and enables efficient processing of complex geometries.



Lathe. The sixth axis

The machine can be equipped with an integrated lathe to extend its capabilities beyond standard processing, enabling turning operations on columns and three-dimensional elements. This additional axis allows the machining of round or complex sections with high stability and precision, expanding the range of possible applications and supporting both architectural and decorative stone components.

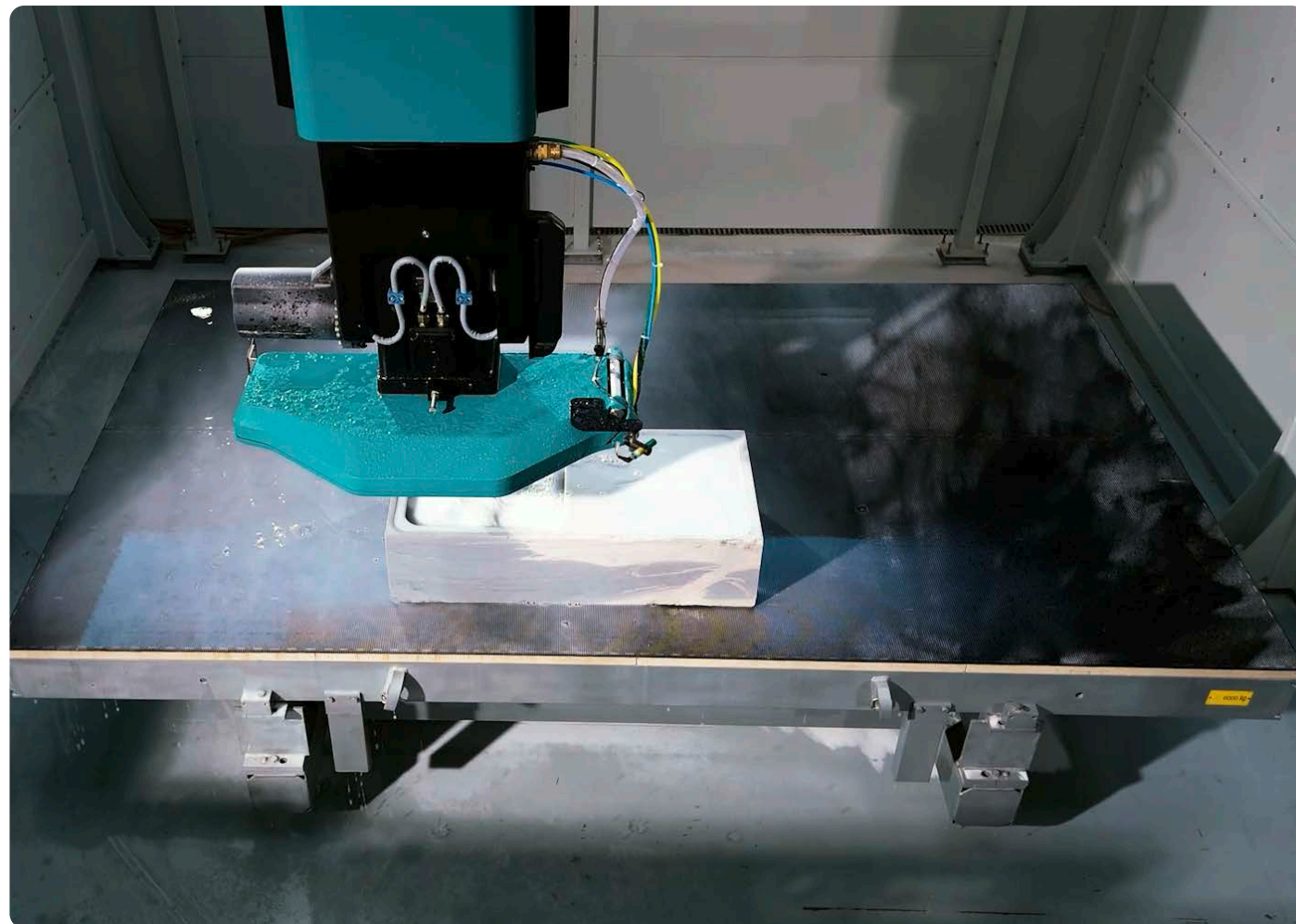
Power Motor Configurations

The machine is available with different blade motor configurations to meet a wide range of processing requirements. With power ratings up to 25.9 kW (S6) in the water-cooled version and 23.5 kW (S6) in the air-cooled configuration, it delivers the right balance between performance, efficiency and reliability. The ISO 40 cone solution enables accurate drilling and machining operations, while variable blade speeds from 800 to 10,000 rpm ensure optimal cutting conditions across different materials and applications. This motor setup guarantees consistent torque, smooth operation and stable performance even during demanding and continuous production cycles.



Working Tables for Maximum Processing Flexibility

Working tables are a key element in this type of machine, especially when processing large slabs or high-thickness materials. Since the Z-axis travel has a physical limit, the ability to lower, tilt or remove the table becomes essential to handle different material sizes and optimize machining conditions. A wide range of table configurations is available, from fixed and tilting solutions to multilevel and reinforced structures, each designed to support high loads, simplify material handling and adapt the working height to specific production needs. This flexibility allows operators to maintain optimal cutting or processing geometry, improve ergonomics and ensure efficient workflow even when working with oversized or heavy stone elements.



Hydraulic Tilting Table

Hydraulically driven table designed to simplify slab loading with crane operations.

Tilts from 0° to 85° and supports high loads, improving ergonomics and handling efficiency.

Tilting and Removable Table

Dual-level solution that allows the tilting section to be removed to gain additional Z-axis clearance.

Ideal for processing slabs of varying thicknesses while maintaining flexibility and accessibility.



Fixed table

Robust galvanized structure designed for stable processing of one or multiple slabs. High load capacity and large working surface ensure reliability for standard slab operations.

Multilevel table

Adjustable working height enables optimal positioning for slabs or thick pieces. Provides flexibility to adapt the machine setup to different materials and processing requirements.

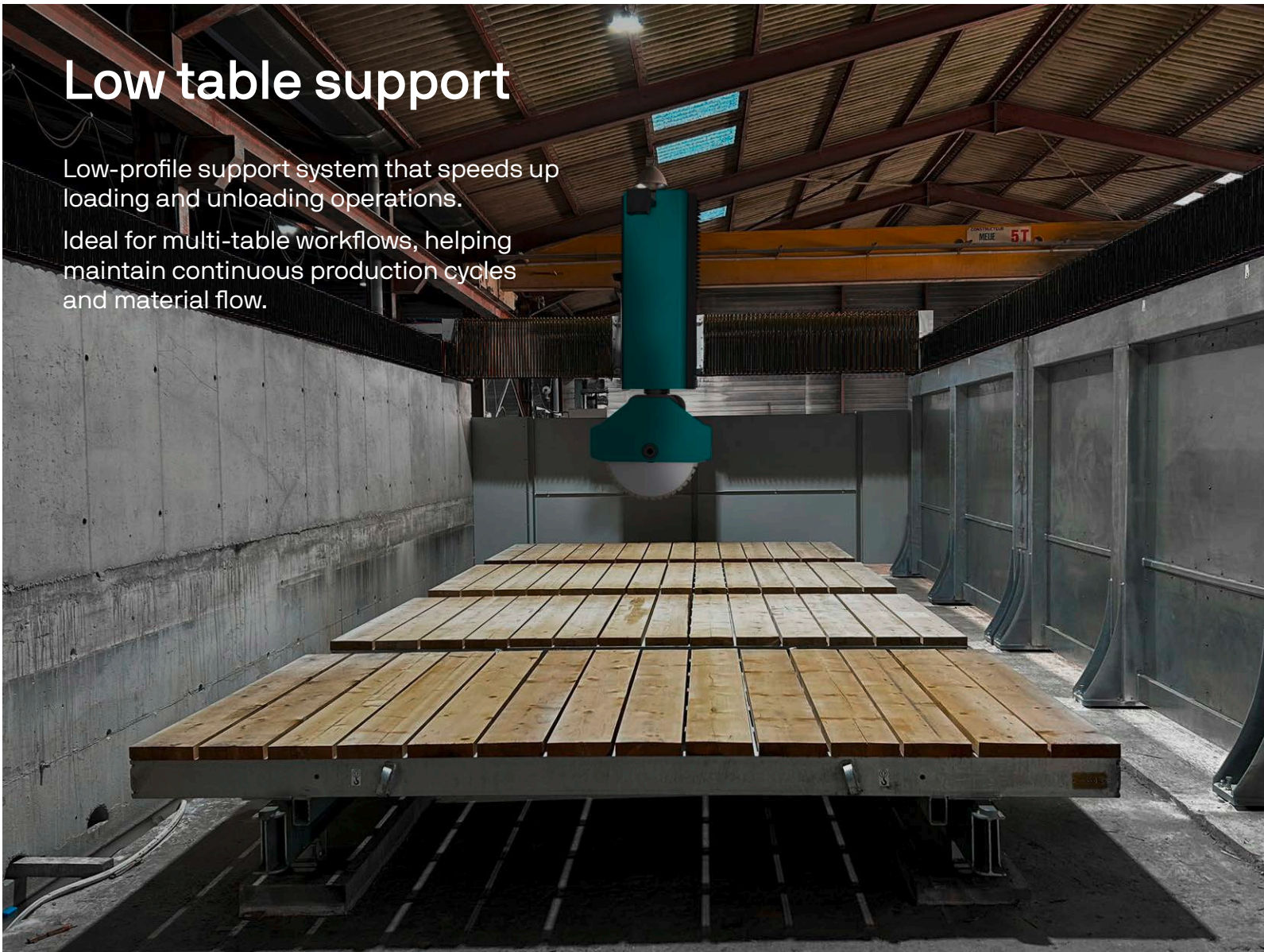
Reinforced steel table

Heavy-duty tables mounted on floor beams for maximum stability and load capacity. Designed for high-throughput production with multiple working positions and continuous machining.



Low table support

Low-profile support system that speeds up loading and unloading operations. Ideal for multi-table workflows, helping maintain continuous production cycles and material flow.



Tool changer systems

Compact, efficient, and fully integrated, these tool magazines are designed to support fast and reliable tool changes during machining operations. They ensure maximum uptime by minimizing interruptions and are engineered to handle multiple tool types with precision. Available in different configurations to match production needs, they guarantee smooth transitions, reduce setup times, and improve overall machining performance.

12-24 positions ISO40

Automatic tool magazine with 12 or 24 ISO40 positions, designed for automatic tool change. Ensures fast transitions between tools and optimized machining workflows, even with large or heavy tooling setups.



4-Position Magnetic Tool Changer

This optional 4-position self-centring magnetic tool changer provides fast, precise, and reliable tool swaps during machining. Compact and positioned between the worktable and the self-supporting structure, the magazine holds multiple tools ready for use, reducing manual intervention, minimising downtime and enabling continuous automated workflows. It enhances flexibility in CAD/CAM operations, especially when frequent changes between milling, drilling, or cutting tools are required.

Camera System

The on-board HD camera, integrated with the machine head, captures the material from the optimal perspective, delivering pixel-to-millimeter accuracy. Dynamic alignment ensures flawless edge detection, minimal shadow interference, and consistent high-resolution imaging.

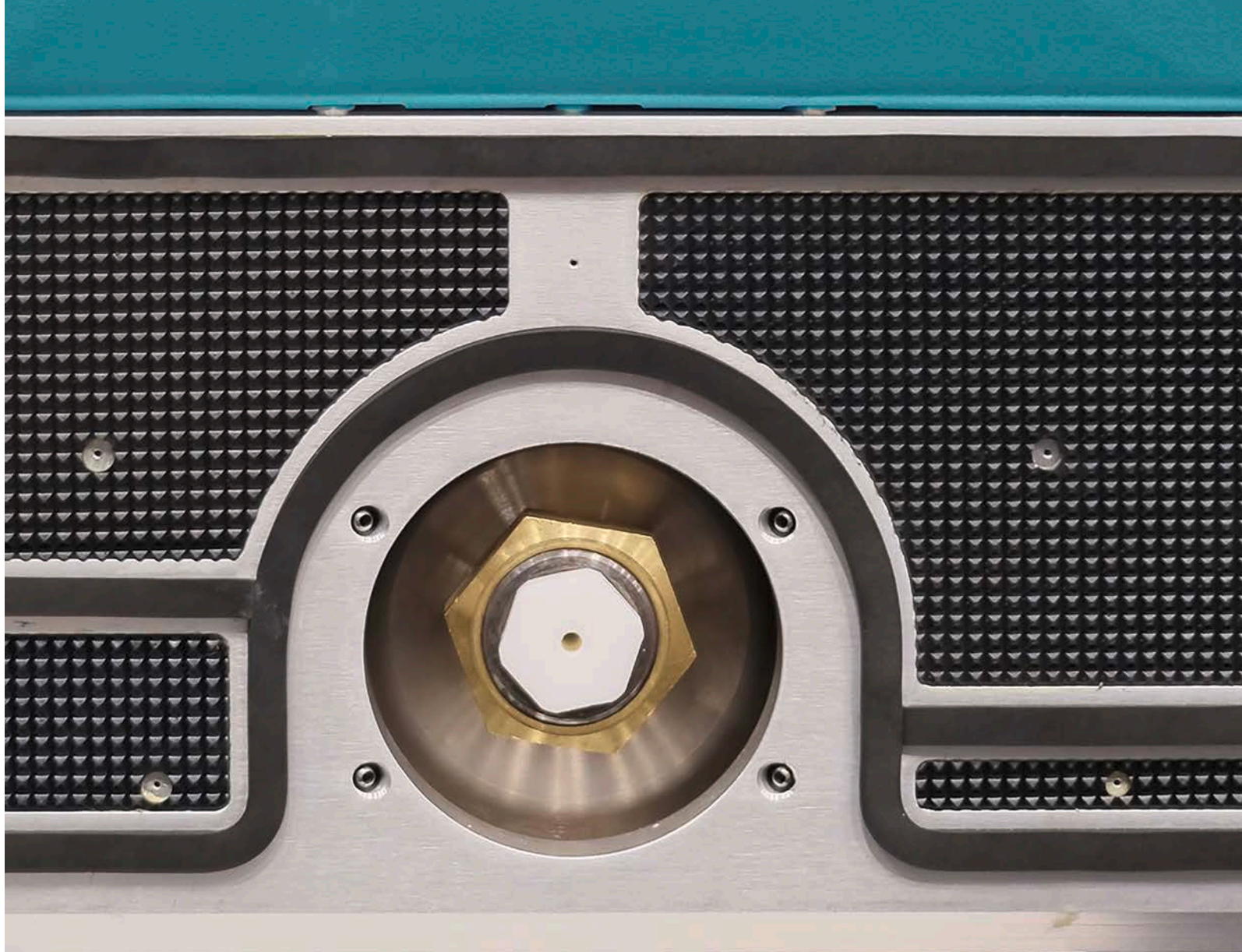
This crystal-clear vision enables precise piece positioning, real-time adjustments, and error-free machining, enhancing efficiency and reducing material waste.



Slab Thickness Reader

The slab thickness reader automatically measures material thickness, compensating for any variations during processing.

This ensures consistent cutting accuracy, optimized material use, and precise machining, essential for operations like inclined cuts. The compensation is fully automatic, integrated directly into the machining cycle for seamless workflow.



Tool Diameter Reader

The tool diameter reader precisely measures the diameter of discs, spindles, and other cutting tools, allowing real-time monitoring and automatic compensation for wear. Integrated with the machine software, it ensures parts are processed within defined tolerances, maintaining consistent machining accuracy, reliable performance, and high-quality results throughout continuous production.



Optical Laser

The optical collimator projects a visible reference line onto the material surface, enabling precise blade alignment. It simplifies setup, ensures each cut starts exactly where intended, reduces waste, and improves workflow efficiency for accurate, high-quality machining.

Vacuum System

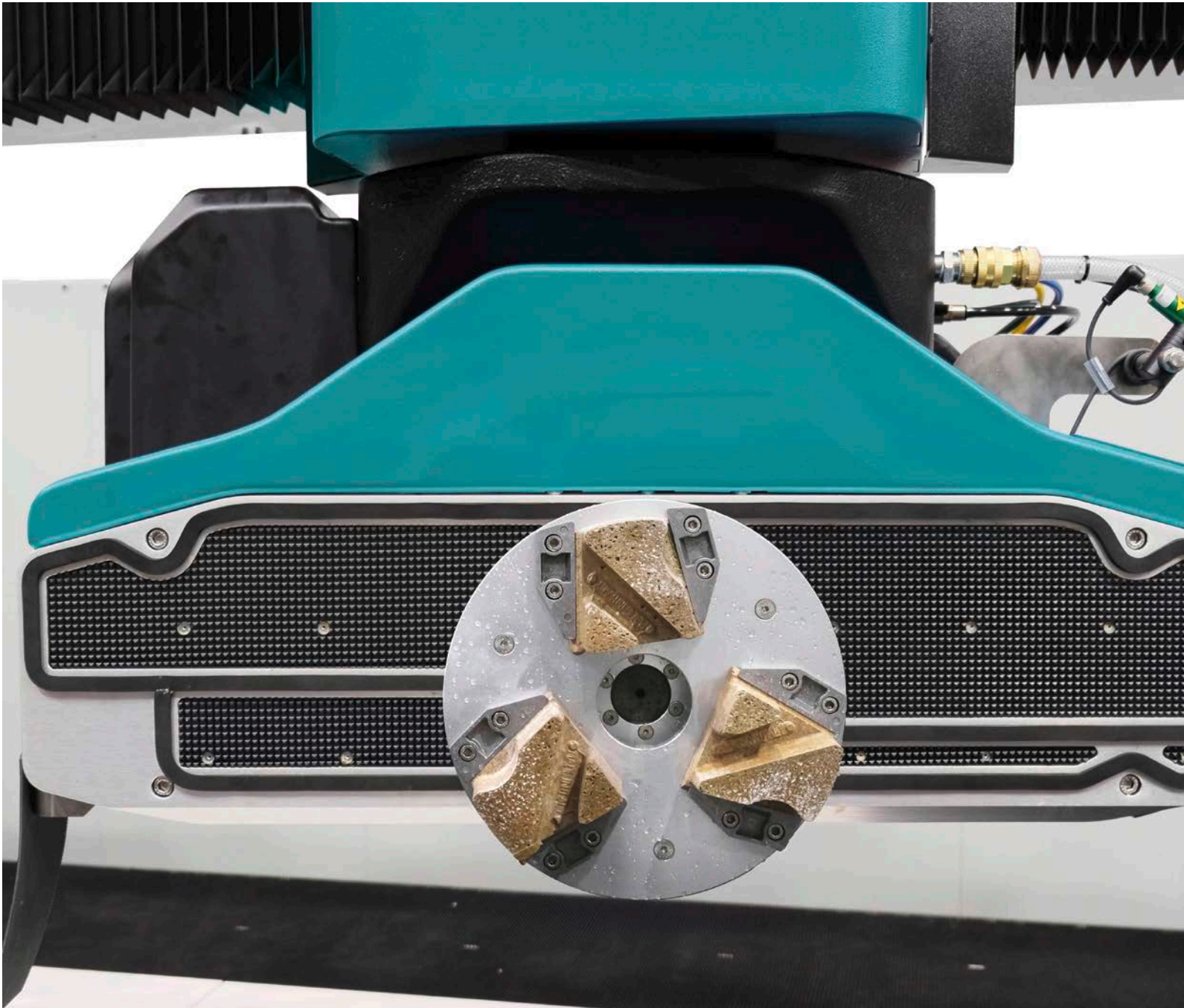
Save time and energy with the fully automated, patented vacuum system, mounted on the machine head and perfectly aligned with the Z-axis. The patented system ensures unparalleled precision when lifting and moving pieces, without any oscillations. The specific design of suction pads and reinforced cast-aluminum components allow clean repositioning. The software automatically coordinates cutting, lifting, and moving for uninterrupted workflow and optimized material use.



Plate for Polishing

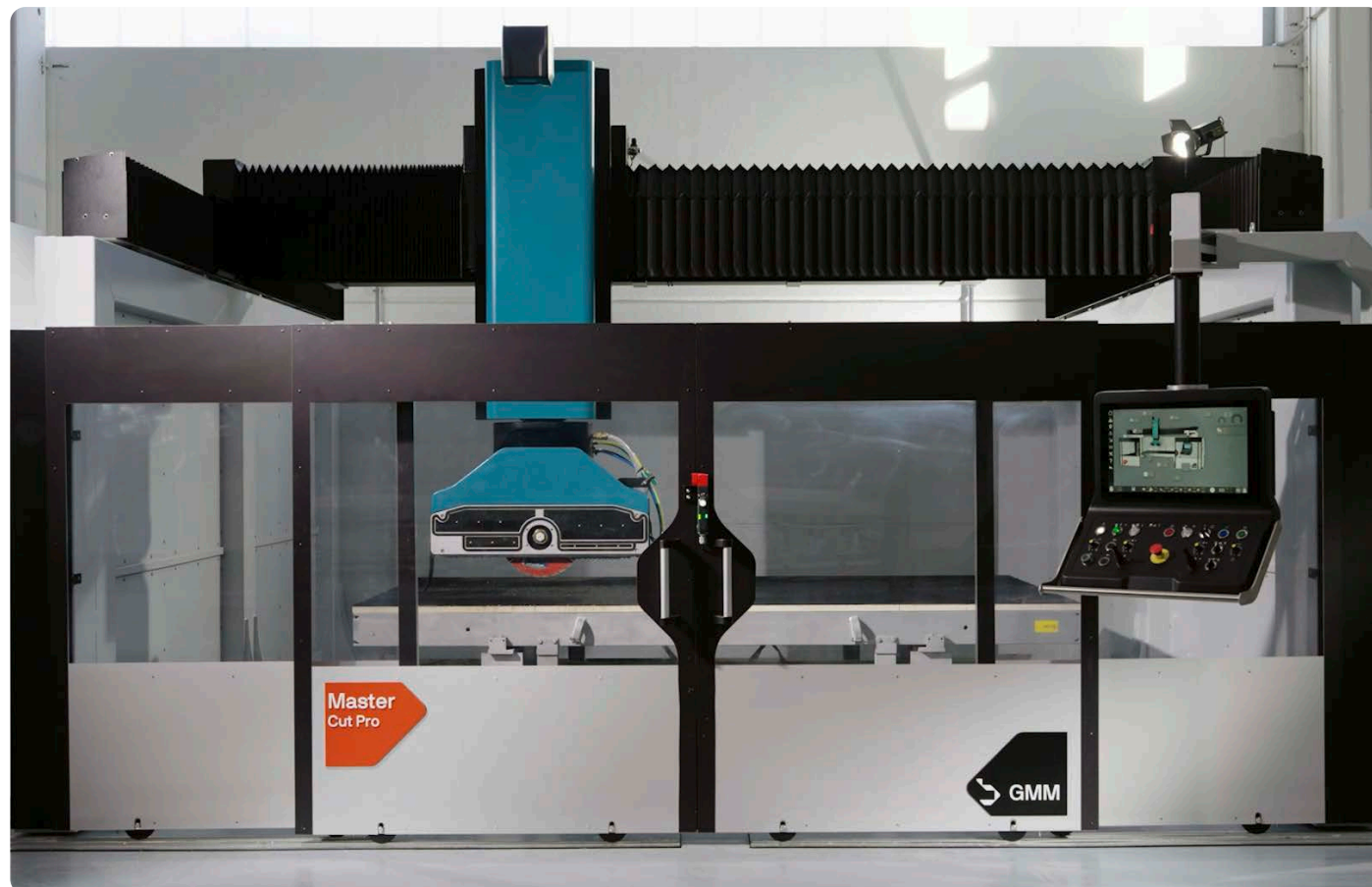
The Ø320 mm polishing plate is designed for high-quality surface finishing and works in combination with the dedicated polishing software. Equipped with a 36x2 3-Frank attachment system, it ensures secure tool fastening and stable operation during all polishing phases.

This plate enables precise, uniform finishing across a wide range of stone materials. Use of the Polishing Program software is required for full functionality and optimized performance.



Safety Barriers

Robust safety barriers protect the operator during cutting or machining: when the machine is working, they form a complete shield around dangerous areas, preventing access and containing water splashes and debris. When open, they allow full and easy access to the work area for loading, unloading, or maintenance, combining maximum safety with practicality and operational flexibility.



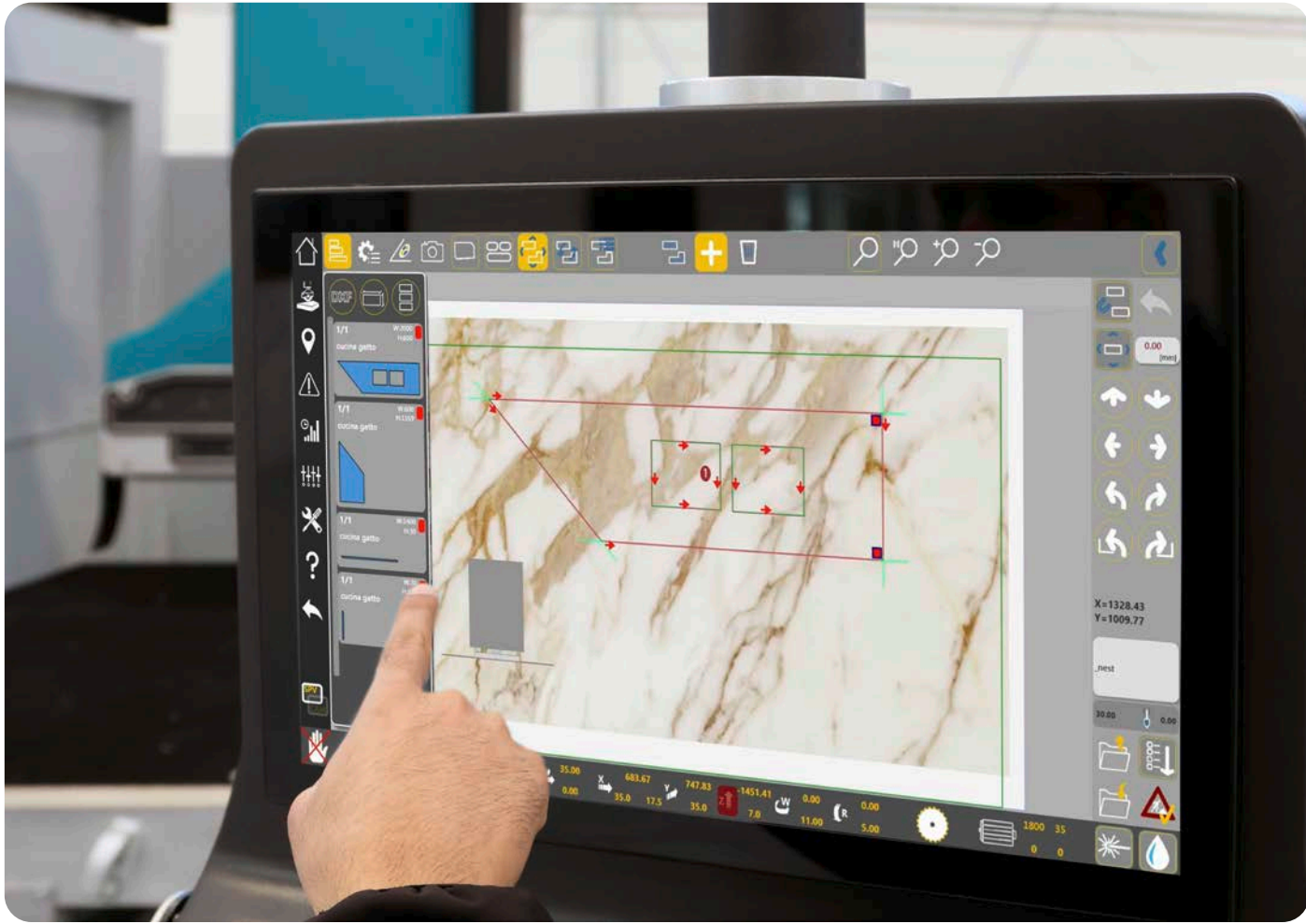


Smart Touch, Full Control

The ergonomic 21" multitouch color display combines intuitive hardware controls with advanced software, enabling operators to start any machining process easily. Manual and semi-automatic controls, including switches and joysticks, allow precise adjustments, while the unified interface across different machining types ensures faster learning, smoother workflow, and effortless operation. Real-time feedback provides previews of processes, minimizing errors and optimizing productivity.

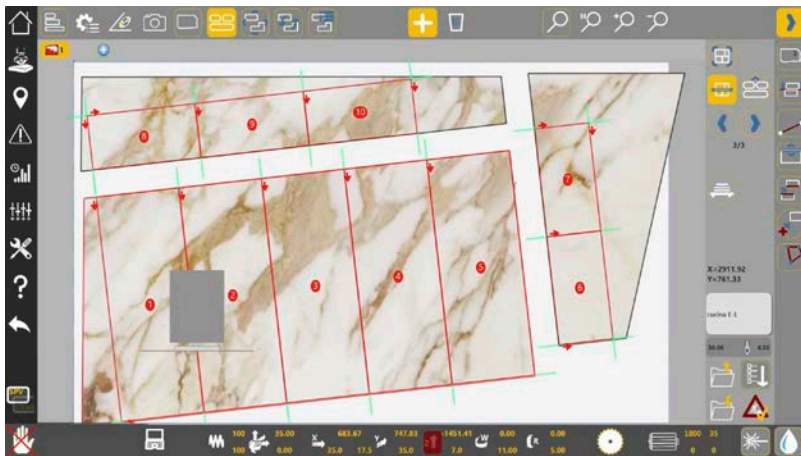
GMM Software

Unlock your machine's full potential with GMM software. Designed for precision, efficiency, and ease of use, it provides advanced features tailored for every application. Intuitive and user-friendly, it simplifies programming, optimizes workflows, and ensures consistent high-quality results across all machining operations.



Cuts from CAD

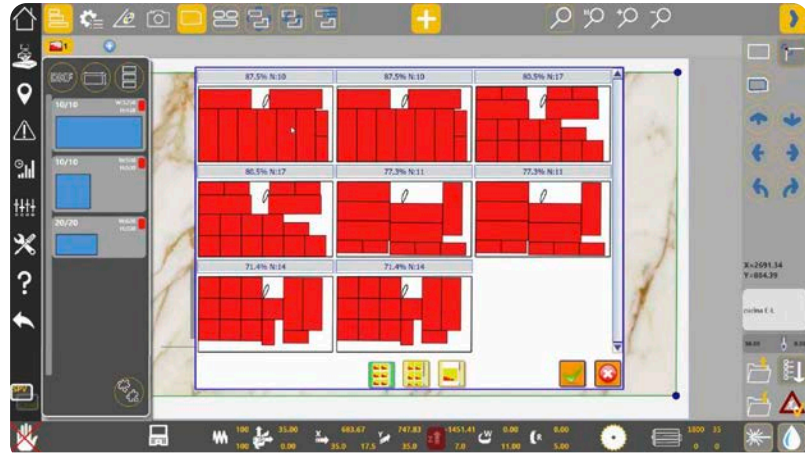
This module allows simultaneous use of up to three tools: disc, milling cutter, and drill bit for vertical, angled, and curved cuts, as well as milling and drilling. Slab positioning is simplified: on camera-equipped machines, a photo captures the material, while probe-equipped machines detect thickness automatically. Drawings can be loaded from saved files, parametric shapes, or nested rectangles/squares, and then moved, rotated, or precisely positioned. Features like the Magnet function combine multiple cuts efficiently, while collision alerts and automatic resolutions with the vacuum system ensure safe and smooth operation.



Automatic Nesting

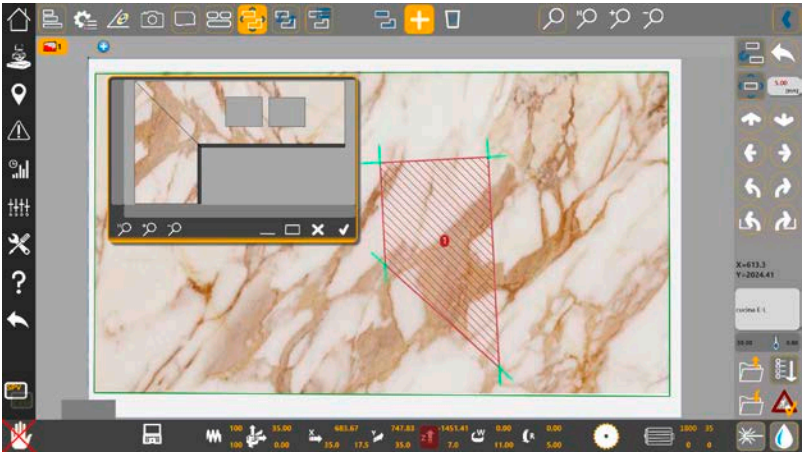
The Automatic Nesting utility efficiently groups multiple parts and assigns them to different slabs. Users define part sizes, quantities, and cutting priorities, and the software automatically arranges them for optimal material use. Slabs are selected from the database or inventory, with vacuum system movements considered for CAD cuts. Nesting layouts can be saved, recalled, or sent directly to the CAD cutting page, ensuring efficient, precise, and constraint-compliant production for the CAD cuts.

Even if the result may not always appear optimal to a trained eye, the positioning respects all constraints and available slab sizes. At the end, the nesting layout can be saved and recalled later, or sent directly to the CAD cutting page for execution. At the top, you'll see all the slabs and their assigned pieces, ready for cutting.



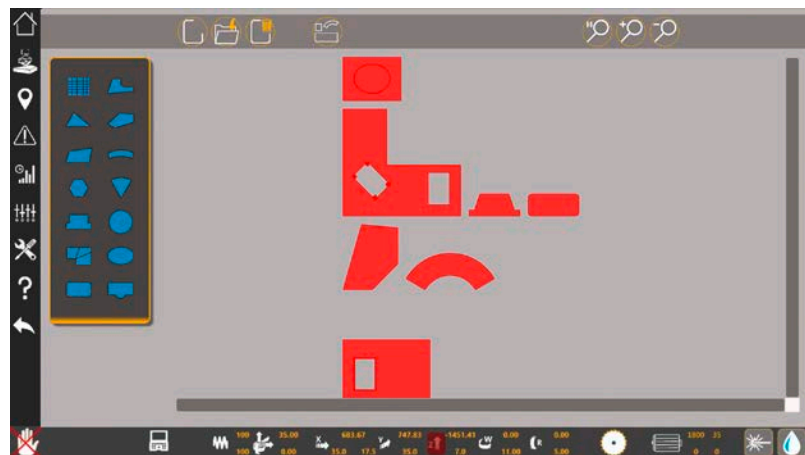
Vein Match

Vein Match brings out the natural beauty of stone, ensuring flawless alignment of veins across book-style walls, continuous-vein countertops, and premium flooring. The software allows precise adjustments before cutting, while the high-resolution camera captures every detail. Real-time previews on the 21" touchscreen optimize material usage, streamline production, and guarantee a high-impact, seamless finish.



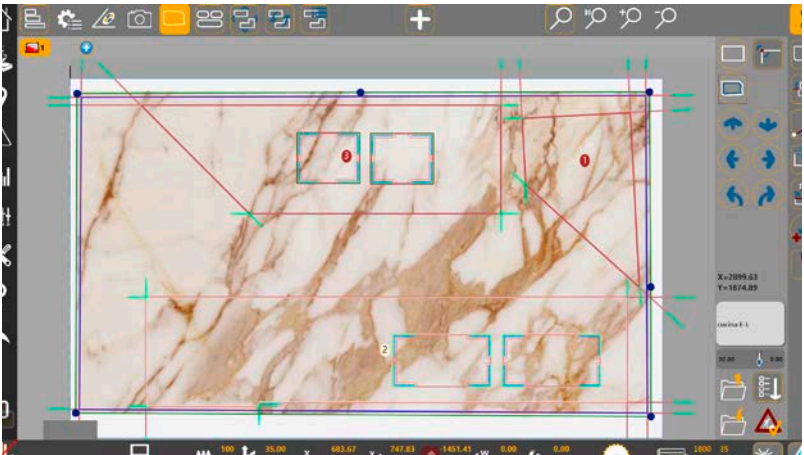
Parametric Shapes

Parametric Shapes provides an easy way to create commonly used stone-working geometries. A wide range of editable templates, such as L-shaped countertops, rectangular cutouts, angled sides, grooves, drainboards, faucet holes, and reinforcement slots, can be fully customized. Dimensions, angles, bevels, offsets, and internal radii can all be adjusted to meet precise design requirements, streamlining production and ensuring accuracy.



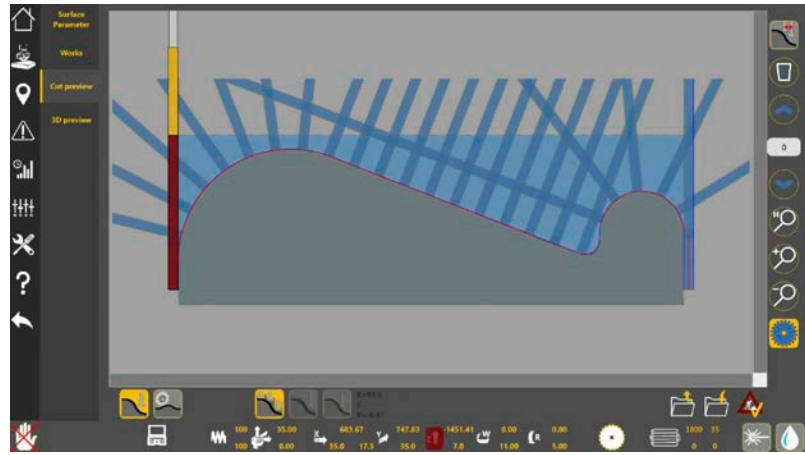
Sintered Material

This feature enables precise cutting of ultra-compact and synthetic materials. Operators can set cutting parameters via the slab perimeter and define material removal to manage slab de-tensioning. An optional function automatically extends closely spaced cuts up to a defined maximum distance, optimizing workflow and ensuring consistent, high-quality results.



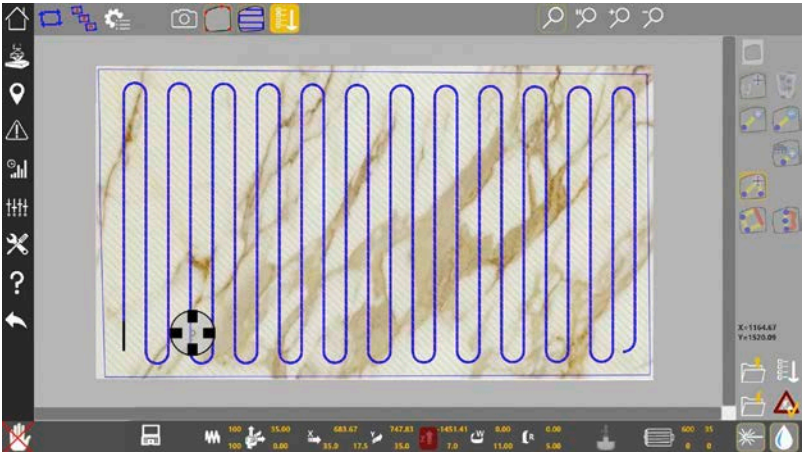
Profile and Shape

This module allows creation of profiles, shapes, or combined profile-shape operations using vertical or horizontal discs. For simple profiles, the disc can remain perpendicular to the material surface, ensuring superior finish. The machine supports roughing for fast material removal, finishing for smooth and precise surfaces, and spatulating, where the disc works sideways to achieve special contours and effects.



Flat Polishing

Flat Polishing manages polishing through customizable tool cycles and sequences. Operators select the tool, set parameters such as diameter, height, RPM, and wear, and define movement types: perimeter, horizontal, vertical, or wave. Multiple pieces with varying heights can be processed, and work areas or tools can be adjusted dynamically. Cycles and sequences are previewed and modified for maximum flexibility, precision, and consistent high-quality finishing.



Configurations



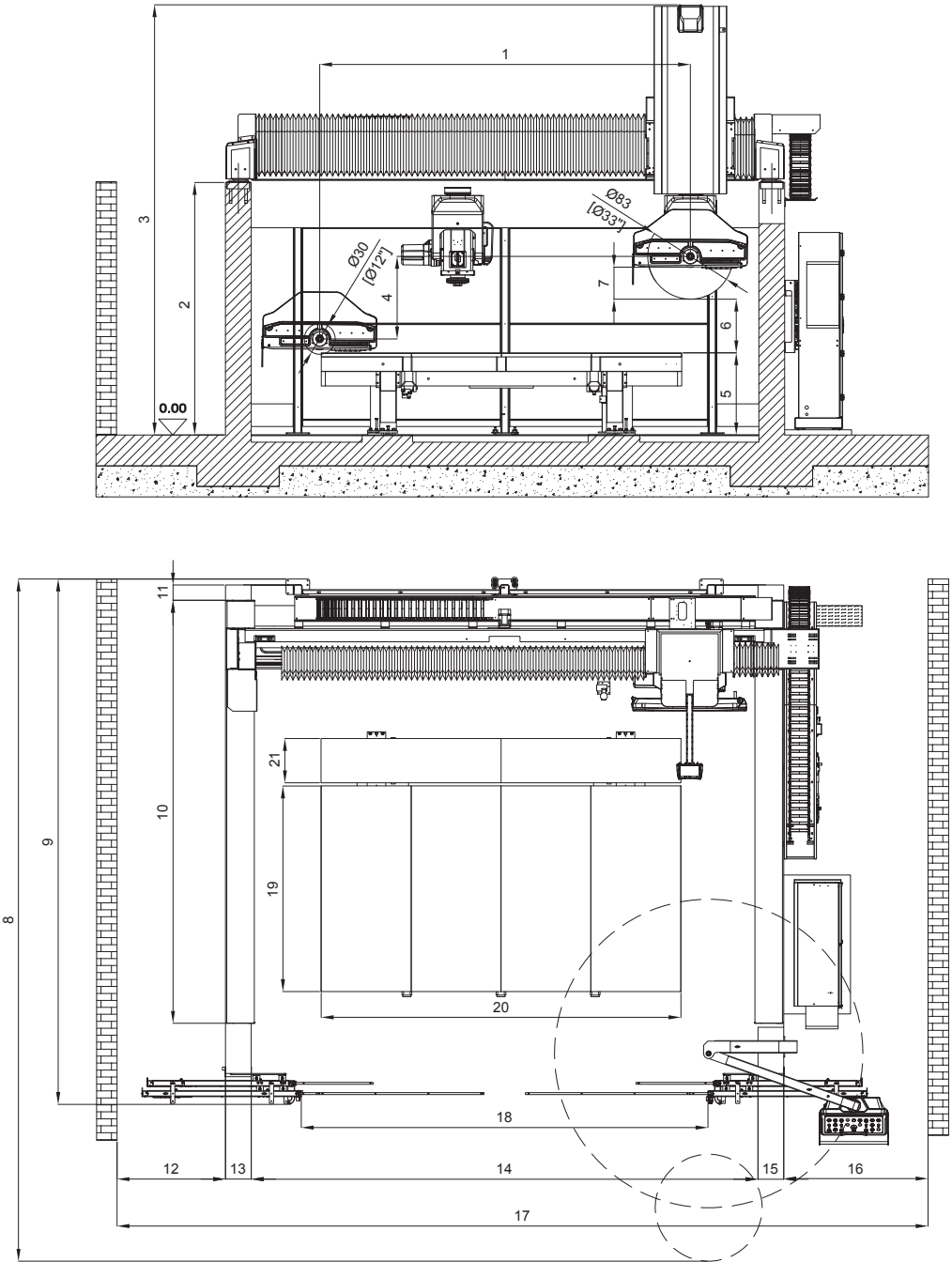
This document includes information about optional features. Scan the QR Code to access the configuration scheme and verify standard and optional equipment.

Technical Specifications

Interpolated Axes	n°	5
Maximum longitudinal stroke (X Axis)	[mm] [in]	3600 [142"]
Bridge translation (Y Axis) (Min/Max Std defined)	[mm] [in]	3110 to 9670 [122.44"] to [380.70"]
Maximum vertical travel of the blade (Z Axis)	[mm] [in]	800 [31.49"]
Maximum Blade Orientation Angle (W Axis)	°	0 ÷ 370
Maximum blade tilting (R Axis)	°	0 ÷ 90
Worktable Area	[mm] [in]	3500 x 2000 [137.79"] x [78.74"]
Worktable Area with table extension	[mm] [in]	3500 x 2460 [137.79"] x [95.85"]
Maximum blade diameter std /Optional	[mm] [in]	Ø 825 / Ø 925 [Ø 32.48"] / [Ø 36.41"]
Maximum cutting depth	[mm] [in]	300 / 350 [11.8"] / [13.77"]
Blade Hole for Std Motor / Blade hole for Iso 40 Cone	[mm] [in]	Ø 60 / Ø 90 [Ø 2.36"] / [Ø 3.54"]
Blade Locking Flange Diameter	[mm] [in]	213 [8.38"]
Blade motor power std / Iso 40 Cone	[kW]	23.5 (S6) / 19.5 (S6) air cooling 25.9 (S6) water cooling
Variable Blade Speed for Std Motor / for Iso cone 40 Motor	[rpm]	800 ÷ 6000 / max 10000
Torque	[Nm]	157.5 / 129.1 / 177.3
Variable Sledge Cutting Speed (X Axis)	[m/min] [ft/min]	35 114.8
Variable Sledge Cutting Speed (Y Axis)	[m/min] [ft/min]	35 114.8
Maximum Speed Z Axis	[m/min] [ft/min]	7,5 24.6
Water Clean Consumption (3 bar - psi)	[l/min] [gal/min]	15 3.96
Cooling Water Consumption at 3 bar	[l/min] [gal/min]	50 13.21
Air Consumption (6 Bar - psi) (* With Vacuum System)	[l/min] [gal/min]	25 (*300) 6.60 (*79.2)
Max liftable weight with vacuum system	[kg] [lb]	500 1100
Standard Installation Dimensions (Width X Depth X Height)	[mm] [in]	7880 x 5110 x 4150 [310.23"] x [201.18"] x [163.38"]
Total machine mass (without steel wall and table)	[kg] [lb]	4010 8822
Machine packing dimension	[m] [ft]	12.03 40' O.T. container

The detected sound pressure levels are measured under cutting, milling and boring conditions and may vary according to the machined material, tooling and working parameters. Measurements are carried out in accordance with UNI EN 16564:2015 and UNI EN ISO 11202:2010, with a measurement uncertainty of K = 3.2 dB(A). The machine operates with a weighted sound pressure level LpA of 82 dB(A) at the control station, with maximum values up to 90 dB(A) at other workstations; the indicated values are emission levels and do not necessarily represent safe operating levels.

Overall dimensions



The drawing refers to an example configuration and is valid only for commercial purpose. Do not use for foundations and general machine supply constructions.

1	[mm] [in]	3600 142	8	[mm] [in]	6630 261	15	[mm] [in]	250 10
2	[mm] [in]	2450 96	9	[mm] [in]	5110 201	16	[mm] [in]	1400 55
3	[mm] [in]	4180 164	10	[mm] [in]	4110 162	17	[mm] [in]	7890 311
4	[mm] [in]	800 31	11	[mm] [in]	150 6	18	[mm] [in]	3960 156
5	[mm] [in]	800 31	12	[mm] [in]	1050 42	19	[mm] [in]	2000 79
6	[mm] [in]	520 21	13	[mm] [in]	250 10	20	[mm] [in]	3500 138
7	[mm] [in]	310 12	14	[mm] [in]	4930 194	21	[mm] [in]	430 17

Biesse

Customer Care

Beyond machines. Value that works longer.

Biesse Customer Care delivers global expertise and local support, every day, everywhere, to protect your investment and enhance long-term machine performance.



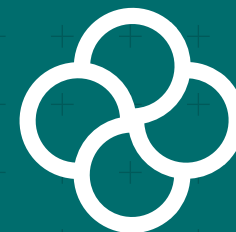
Services

- Installation & Warranty
- Remote assistance
- On-site assistance
- IoT Services



Maintenance

- Machinery maintenance
- Components maintenance



Components

- Spare parts
- Upgrades & Modernization
- Tooling
- Software



Training

- In-person coaching
- Customized education
- Remote training

Founded in Italy in 1969
International natives

We are an international company that manufactures lines, machinery and components for making products, enhancing the potential of a wide range of materials.

Thanks to our rooted competence nurtured by an ever-growing worldwide network, we support your business evolution - empowering your imagination.

Master of materials

We simplify your
manufacturing process
to make the potential
of any material shine

Join the
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Biesse Material·HUB

Network

Join the Biesse
Material Hub
experience

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Biesse Material Hubs are multi-material spaces designed to experience our company and our complete product portfolio in a unique and engaging way.

A place to explore technologies, share ideas and find the right solution for you.

The world map reflects our identity as 'International Natives', showcasing our global presence through Biesse Material Hubs and showrooms worldwide.

 Biesse Material Hub  Showroom



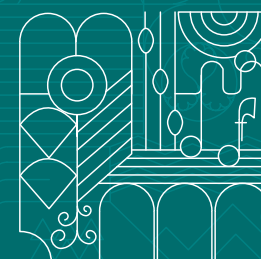
Reserve your visit
in one of our
multi-material
spaces around
the world



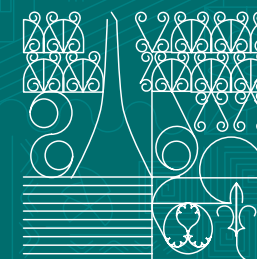
Canada | Toronto



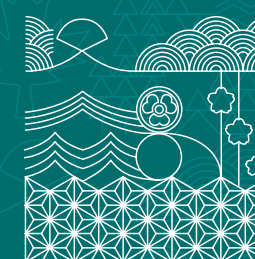
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Italy | Pesaro



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