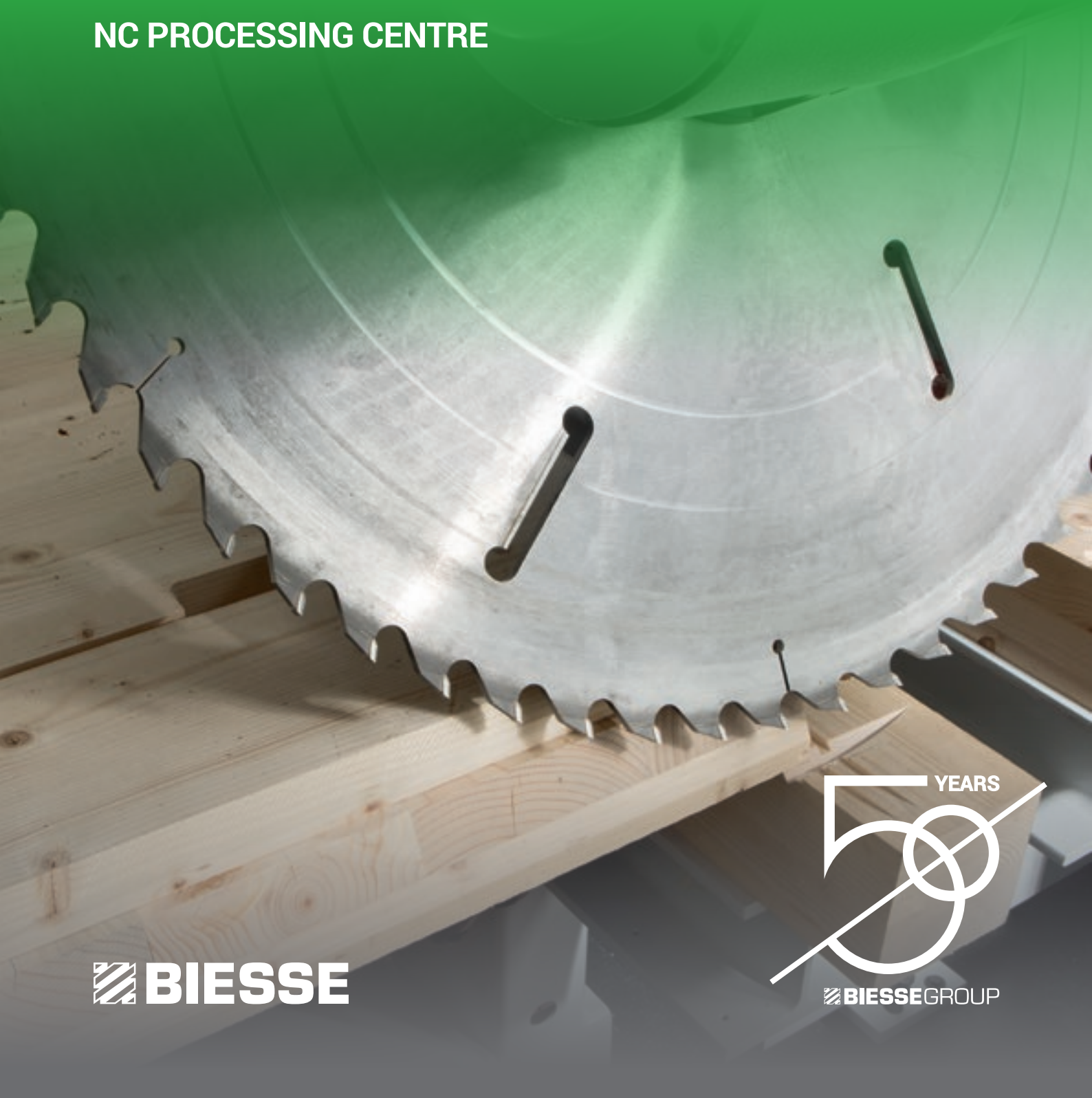


UNI TEAM E MIX

NC PROCESSING CENTRE



 **BIESSE**

YEARS


 **BIESSEGROUP**

UNIQUE TECHNOLOGY FOR CLT MACHINING



THE MARKET DEMANDS

a change in manufacturing processes, enabling companies to **accept the largest possible number of orders**. This is coupled with the need to maintain high quality standards and customisation of products with quick and defined delivery times, as well as responding to the needs of highly creative designers.

BIESSE RESPONDS

with **technological solutions** that enhance and support technical expertise along with process and material knowledge. **Uniteam E MIX** is the processing centre specifically designed for CLT machining operations for woodwork construction. It's aimed at small-medium sized companies that want to increase their performance levels, but at an affordable price.



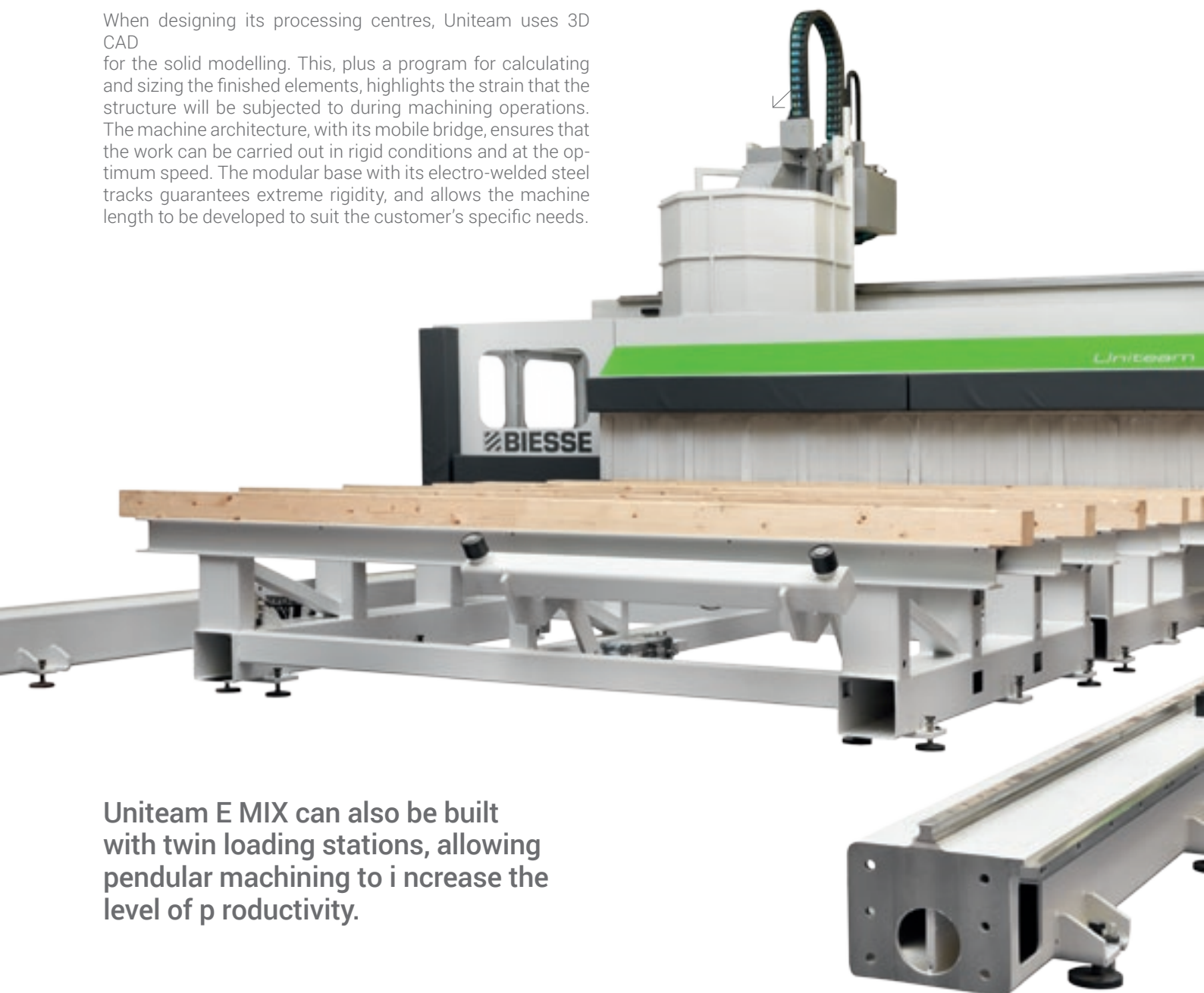
UNITEAM E MIX

- ✓ ROBUST STRUCTURE FOR TOP MACHINING PRECISION
- ✓ FAST AND POWERFUL, WHATEVER THE TASK
- ✓ OPTIMUM PANEL QUALITY
- ✓ TOTAL OPERATOR SAFETY

ROBUST STRUCTURE FOR TOP MACHINING PRECISION

The rigid structure of Uniteam E MIX guarantees that there are no vibrations whilst carrying out machining operations, which means perfect end products.

When designing its processing centres, Uniteam uses 3D CAD for the solid modelling. This, plus a program for calculating and sizing the finished elements, highlights the strain that the structure will be subjected to during machining operations. The machine architecture, with its mobile bridge, ensures that the work can be carried out in rigid conditions and at the optimum speed. The modular base with its electro-welded steel tracks guarantees extreme rigidity, and allows the machine length to be developed to suit the customer's specific needs.



Uniteam E MIX can also be built with twin loading stations, allowing pendular machining to increase the level of productivity.

UNITEAM E MIX CAN PROVIDE SPECIFIC SOLUTIONS FOR BLOCKING THE PANELS PERFECTLY.

The sturdy reference stops ensure the piece is correctly positioned on the work table. Thanks to the system for automatic stop exclusion, machining operations can be carried out on the edge of the piece, in total safety.



The upper pressure rollers (in front of the work unit, and behind it) guarantee an optimum hold during the machining phases, even with major part removal operations.

Suction cups with a vacuum fixing system making it easier to clamp even the thinnest panels.



FAST AND POWERFUL, WHATEVER THE TASK

The Uniteam E MIX configuration enables even the most complex machining operations to be performed in an efficient manner, combining the power of the electrospindle with the reduced cycle times obtained by the presence of magazines directly on the machine.



Blade magazine of 850mm diameter.



Top performance thanks to the 22kW synchronous electrospindle in the Y axis.

UP TO 14 TOOLS AVAILABLE IN THE MACHINE



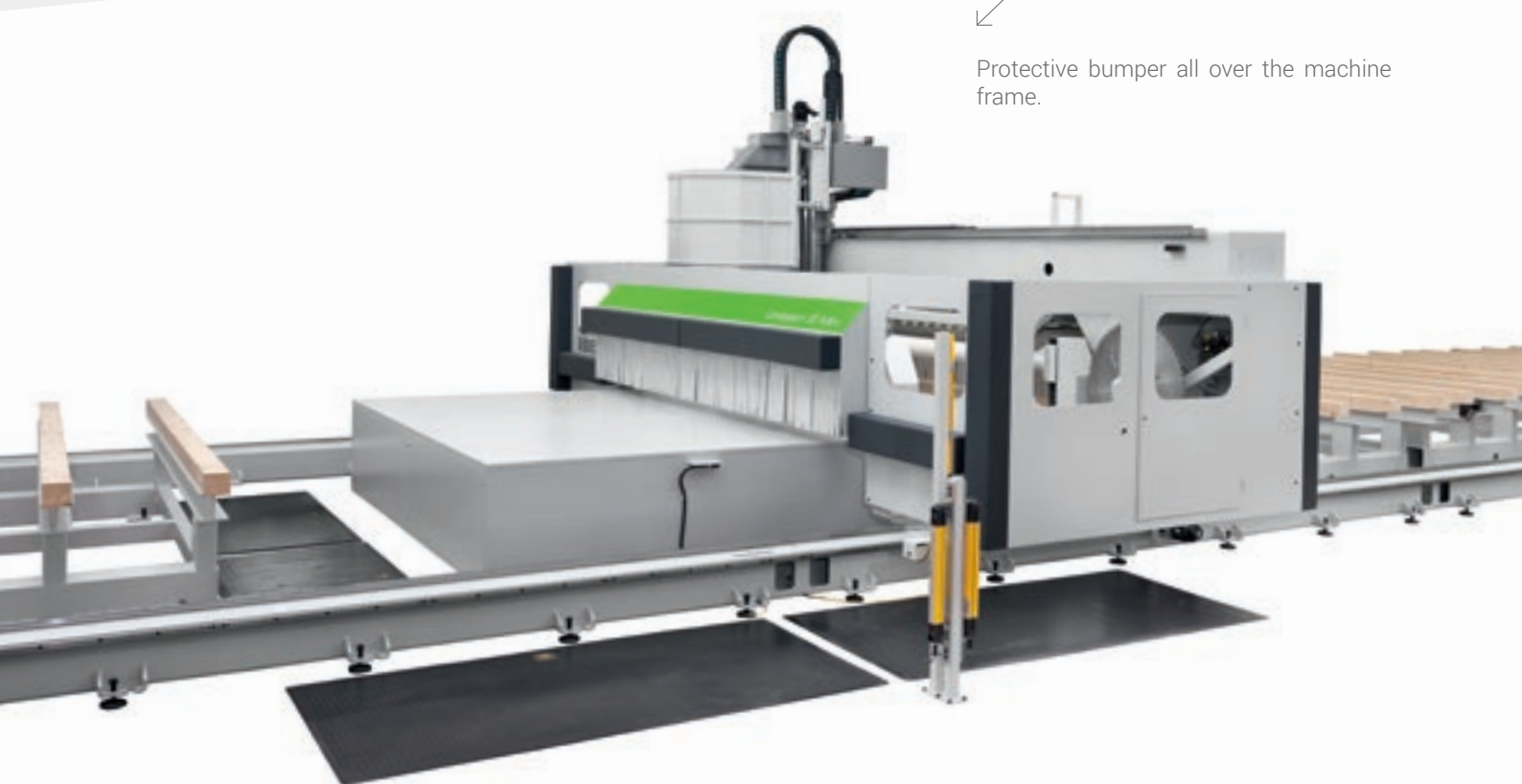
10-place tool magazine for quick tool changes.



3-position magazine for large tools, including the chain tool if necessary.



MAXIMUM QUALITY OF THE FINISHED PANEL, AND TOTAL SAFETY FOR THE OPERATOR



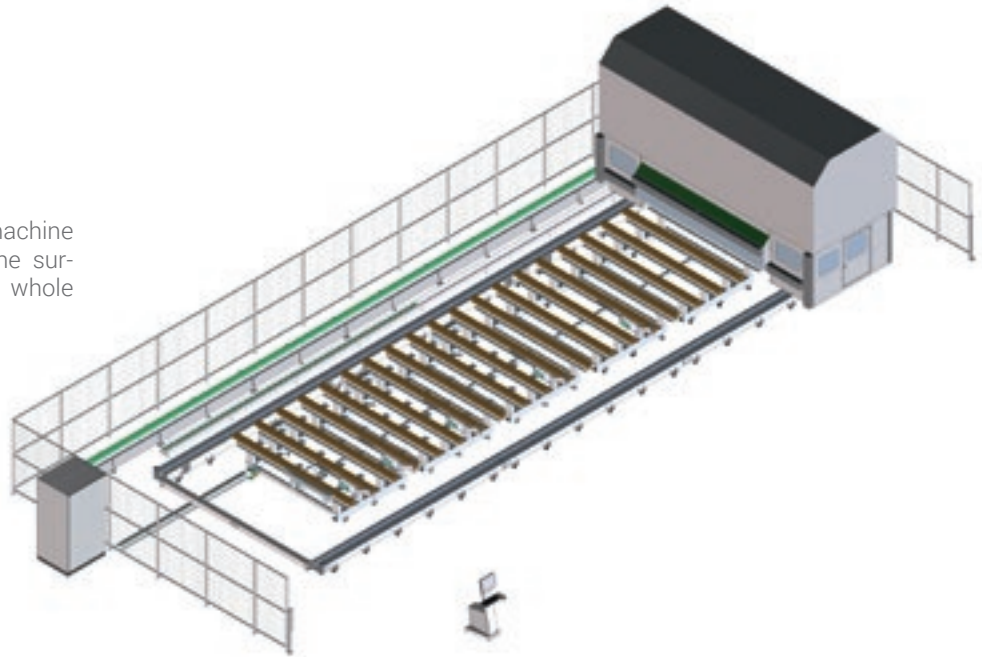
Protective bumper all over the machine frame.



Mechanical perimeter guards, or with a photocell.

SOLUTIONS FOR CLEANING THE PANEL AND VACUUMING THE FINE DUST PARTICLES, TO SAFEGUARD THE WORK ENVIRONMENT AND ENSURE THE PANEL IS PERFECTLY CLEAN.

Possibility to enclose the entire machine in a cabin structure, to keep the surrounding environment and the whole factory as clean as possible.



A deflector on the main electrospindle channels the chips.

CHIPBOARD CONVEYOR CHANNEL ALONG THE ENTIRE LENGTH OF THE MACHINE, WITH DEDICATED SUCTION HOODS ON THE WORKING UNITS.

PRACTICAL, USER-FRIENDLY TECHNOLOGY



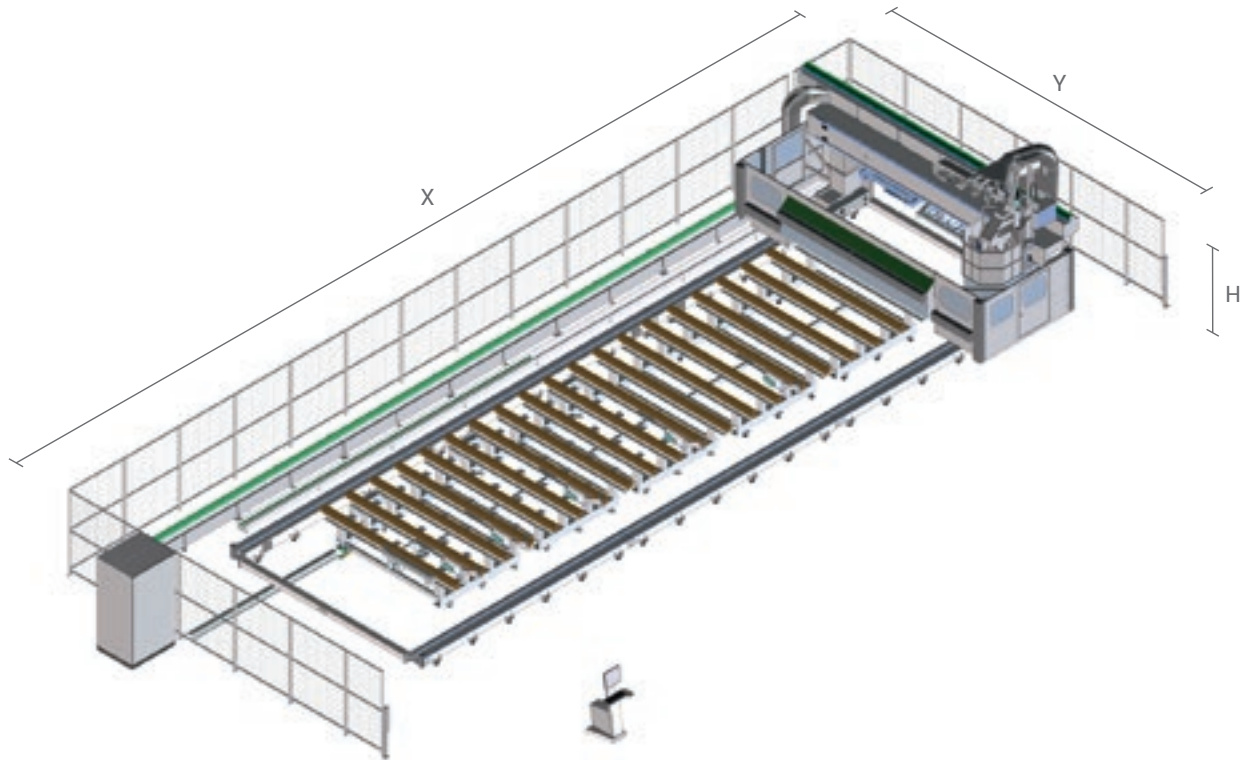
The Uniteam range designed for housing is equipped with a very powerful **NC** - the pioneering **Osai Open M**. Thanks to its characteristics, the CNC OPENcontrol family of machines ensures an excellent finish on the piece and optimum processing centre management. The systems can be fully customised using graphic HMI software and an embedded PLC.



The **CAD/CAM software** used in Uniteam machines is ideal for designing both straight and curved beams. Specifically created for this sector, it simplifies machine use, guaranteeing process optimisation and significantly increased productivity. Once the project has been imported in Btl format, the CAD/CAM module automatically associates the appropriate machining processes. The software shows the piece geometry directly on the screen, with the machining operations applied.

It's equipped with a 3D processing centre simulator. The machine CAD allows full freedom in designing flat pieces, curved pieces and a variety of profiles. Projects can also be imported from third-party CAD systems.

TECHNICAL DATA



WORKING FIELDS

X	mm/inch	13500/53 - 16500/649 - 18500/728 - 24500/964
Y	mm/inch	3500/138
Z	mm/inch	300/12

WORKING DIMENSIONS

X	mm/inch	21500/846 - 24500/964 - 26500/1043 - 32500/1279
Y	mm/inch	8730/344
H	mm/inch	4050/159

X/Y/Z axis speed	m/min	26 - 60 - 30
X/Y/Z axis speed	ft/min	85 - 196 - 98

The technical specifications and drawings are non-binding. Some photos may show machines equipped with optional features. Biesse Spa reserves the right to carry out modifications without prior notice.

A-weighted sound pressure level (LpA) during machining for operator workstation LpA=79dB(A), A-weighted sound-pressure level (LpA) for operator workstation and sound power level (LwA) during machining LwA=83dB(A). K measurement uncertainty dB(A) 4.

The measurement was carried out in compliance with UNI EN 848-3:2007, UNI EN ISO 3746: 2009 (sound power) and UNI EN ISO 11202: 2009 (sound pressure levels at workstation) during panel machining. The noise levels shown are emission levels and do not necessarily correspond to safe operation levels. Despite the fact that there is a relationship between emission and exposure levels, this may not be used in a reliable manner to establish whether further measures need to be taken. The factors determining the exposure level for the workforce include length of exposure, work environment characteristics, other sources of dust and noise, etc. i.e. the number of other adjoining machines and processes. At any rate, the above information will enable the operator to better evaluate dangers and risks.

SERV ICE & PARTS

Direct, seamless co-ordination of service requests between Service and Parts. Support for Key Customers by dedicated Biesse personnel, either in-house and/or at the customer's site.

BIESSE SERVICE

- ✔ Machine and system installation and commissioning.
- ✔ Training centre dedicated to Biesse Field engineers, subsidiary and dealer personnel; client training directly at client's site.
- ✔ Overhaul, upgrade, repair and maintenance.
- ✔ Remote troubleshooting and diagnostics.
- ✔ Software upgrade.

500

Biesse Field engineers in Italy and worldwide.

50

Biesse engineers manning a Teleservice Centre.

550

certified Dealer engineers.

120

training courses in a variety of languages every year.

The Biesse Group promotes, nurtures and develops close and constructive relationships with customers in order to better understand their needs and improve its products and after-sales service through two dedicated areas: Biesse Service and Biesse Parts. With its global network and highly specialized team, it offers technical service and machine/component spares anywhere in the world on-site and 24/7 on-line.

BIESSE PARTS

- ✔ Original Biesse spares and spare kits customized for different machine models.
- ✔ Spare part identification support.
- ✔ Offices of DHL, UPS and GLS logistics partners located within the Biesse spare part warehouse, with multiple daily pick-ups.
- ✔ Order fulfillment time optimized thanks to a global distribution network with de-localized, automated warehouses.

92%
of downtime machine orders fulfilled
within 24 hours.

96%
of orders delivered in full on time.

100
spare part staff in Italy and worldwide.

500
orders processed every day.

MADE WITH BIESSE

THE INNOVATION BEHIND THE UNITEAM MACHINING CENTRE TAKES CENTRE STAGE IN THE JAPANESE HOUSING MARKET

Sky Corporation is one of the top Japanese companies to produce CLT panels.

Founded in 1990, the company grew significantly and currently owns 6 factories, 2 sales offices, 3 logistics centres, a team of 195 people and revenues of 50 million USD per year. The company produces components for wood houses, structural materials for non-residential buildings up to 3,000 m² (pre-cut using CAD/CAM), panels and other wood products.

"We have a vast range of customers, from builders to woodworkers, and from companies that sell wood to other businesses.

Very different companies share a common interest in quality materials machined with the utmost precision, with no errors or defects and limited costs" stated Yukitsugu Takahashi, Sky Corporation president. "What sets us apart from our competitors is our technology, no other company in the sector has a high-tech production process that can compare," Yukitsugu Takahashi continued. In 2015, Sky Corporation purchased a Uniteam machining centre to be able to handle machining that the company couldn't achieve with the equipment it already owned.

"Thanks to this new purchase, we are now able to use a machine for machining operations that were previously done manually, thus improving productivity and performance. We are able to process pre-cut panels for non-residential

use with Japanese machines, but we use the Uniteam machining centre for longer components, complex joints, and CLT panels, which our previous machines were unable to handle. Thanks to its powerful and efficient CAD/CAM software, the Uniteam has significantly cut the number of cases where manual work was required as well as significantly cutting costs and helping optimise company logistics. Plus, the CAD/CAM software used by the Uniteam can interface with all CAD software available on the market".

Sky Corporation decided on the Uniteam machining centre after a scrupulous visit of the Italian Company. "Before buying, I visited their factory to see the Uniteam in action, I learned about their approach to developing this technology and met with their very enthusiastic and efficient team. The company that produces Uniteam has become a valid partner of ours, and we have worked together

on improving the machine's performance to meet our production needs. The fact that Uniteam became part of the Biesse Group further motivated us to strengthen our collaboration. The financially sound company and continued investments in consulting and services further back up their skill and reliability," the president of Sky Corporation explained.

Sky Corporation is happy to use the Uniteam machining centre as part of its production process, especially to meet market demand in Japan following the recent introduction of CLT panels. "Owning this technology allowed us to accept a growing number of orders from customers who are building houses and other structures based on this new technique. It was a wise investment and has helped us grow significantly," Yukitsugu Takahashi concluded.

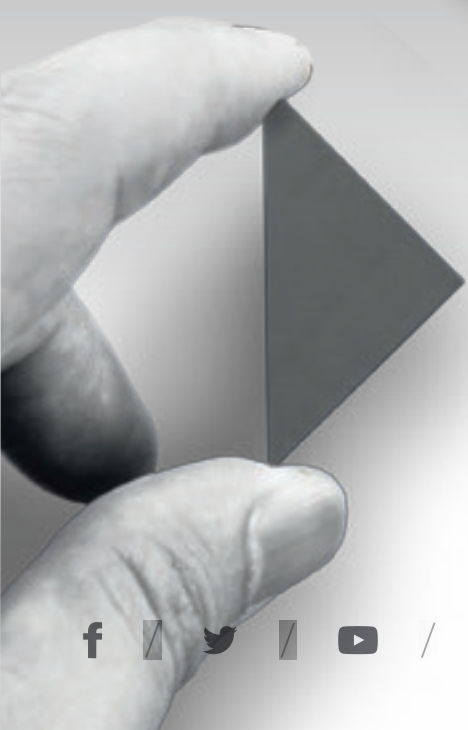
The innovation was also featured on local television and published online:

<http://youtu.be/8XA76a8eLAo>.



LIVE THE EXPERIENCE

BIESSEGROUP.COM



Interconnected technologies and advanced services that maximise efficiency and productivity, generating new skills to serve better our customer.

LIVE THE BIESSE GROUP EXPERIENCE AT OUR CAMPUSES ACROSS THE WORLD.



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