

# UNI TEAM RC

NC PROCESSING CENTRE



 **BIESSE**

 YEARS  
 **BIESSEGROUP**

# HIGH SPEED AND OPTIMUM RESULTS



## 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 the technical expertise and the knowledge of processes and materials.

**Uniteam RC** is the new, compact, top-performance machining centre for beams and partitions for creating prefabricated panels and frame structures. Ideal for small- and medium-sized firms that want to respond to the most complex demands of modern design. The new machine is ideal for high-speed work, processing large production volumes with the utmost precision.



## UNITEAM<sup>RC</sup>

- ✔ OPTIMUM RELIABILITY AND ROBUSTNESS
- ✔ MAXIMUM MACHINING PRECISION
- ✔ EFFICIENT ACROSS ALL MACHINING OPERATIONS
- ✔ PERFECT BLOCKING OF PIECES AND BEAMS OF VARIOUS SIZES
- ✔ CUTTING-EDGE TECHNOLOGY.

# OPTIMUM RELIABILITY AND ROBUSTNESS

The Uniteam RC is equipped with a robust fixed doorway structure that houses high performance working units used for the main machining operations. The system guarantees precision and optimal finishing of all elements created.

The loading area is made up of supports that act as buffers for the pieces to be machined.

The structure includes a steel beam welded to a solid metal base. The overhead beam has a wide cross-section and was created using combined sections designed to guarantee extreme sturdiness.

The mobile carriages that support the beam being processed run across the base below.



**UNITEAM RC IS HIGHLY COMPACT AND ERGONOMIC. GREATER FLEXIBILITY THANKS TO THE MODULAR SYSTEM, WITH THE POSSIBILITY TO LOAD ON BOTH THE RIGHT AND THE LEFT. HIGH-PERFORMANCE MACHINING CENTRE FOR EFFICIENT, PRECISE, CLEAN MACHINING OPERATIONS.**

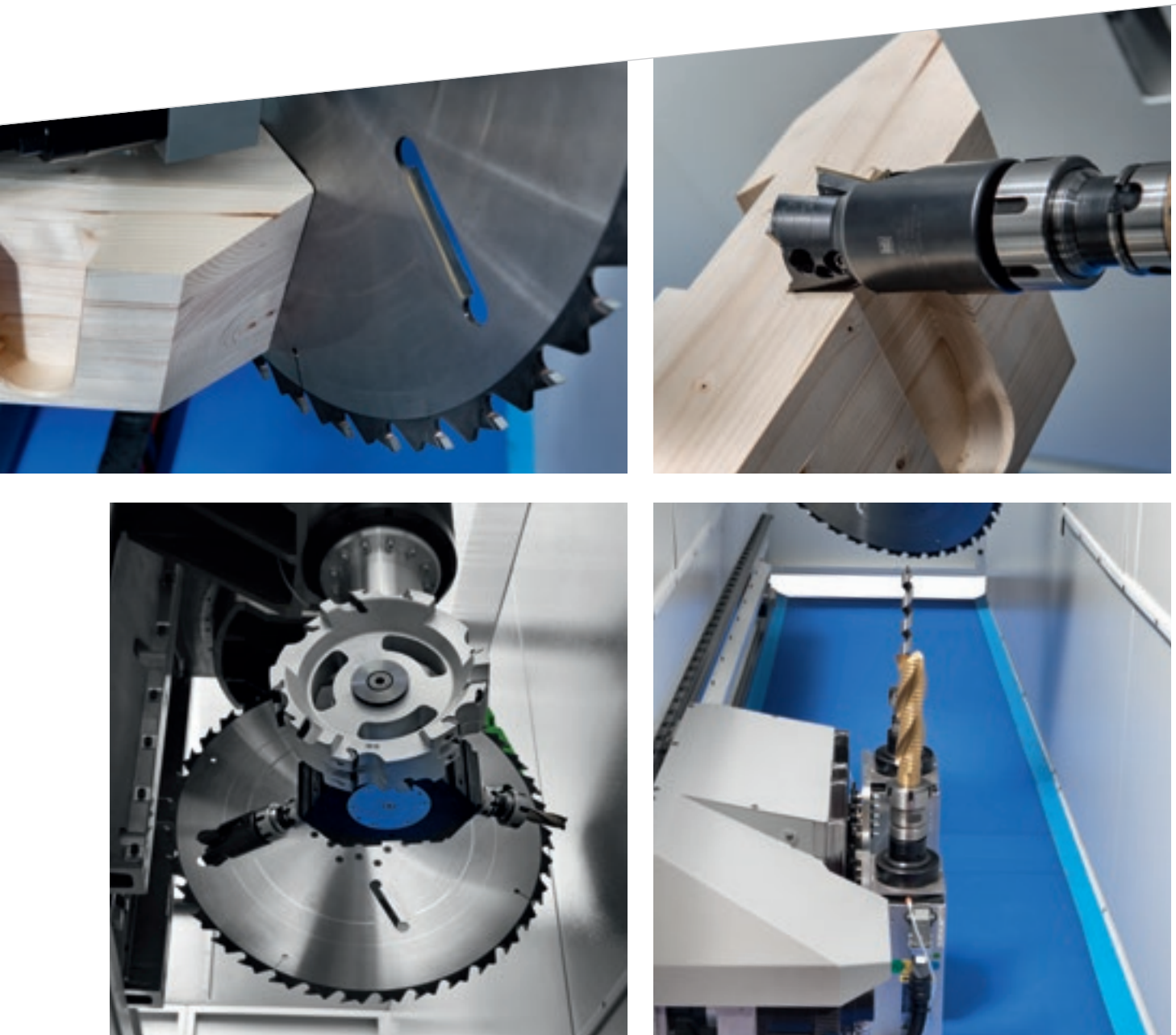


# SEVERAL STATE OF THE ART MACHINING OPERATIONS

Uniteam RC works at very high speeds, guaranteeing excellent production efficiency with quality and precision levels way above the market standards.



# MAXIMUM MACHINING PRECISION



Two working units can be positioned in the machine  
The main working unit is the blade unit, with a 650mm diameter and 5 controlled axes to ensure quick, precise cuts.  
Unit with three milling units and tools positioned at 120° for greater machining freedom. Optional lower units for milling and boring.

Biesse uses components of the highest level for all the machines of its range. The aggregates and boring heads are designed and produced for Biesse by HSD, a world leader in this sector.

## TOP-OF-THE-RANGE COMPONENTS

# PERFECT BLOCKING FOR BEAMS AND PIECES OF VARIOUS SIZES



**Piece handling is designed to guarantee maximum grip and extremely high machining quality.**

The collet system picks up the beam from the loading area and takes it to the central machining area. Uniteam RC can work the 6 faces of the beam without moving the piece and without losing the references, ensuring perfect precision.



The outfeed collets unload the machined piece.

The handling system has specific collets for managing pieces of different lengths and thicknesses with the same efficiency. The unloading area is made up of a series of tilted roller supports laid out at variable distances to best sustain both long and short pieces.





# QUALITY

## A BALANCE BETWEEN PRECISION AND PRODUCTIVITY

**Uniteam RC, the compact and top-performing machining centre that ensures speed and optimum precision with no half-measures.**

The top-of-the-range components guaranteed by Biesse, the rigid structure and the high-speed working units make Uniteam RC the machine with the best results in its category, for unbeatable precision every time.





# OPTIMUM VISIBILITY OF THE WORKING AREA

The Uniteam range designed for housing is equipped with a very powerful NC - the pioneering Osai Open M. Thanks to its characteristics, the CNC OPEN control family allows excellent piece machining finishes and optimised machining centre management.



A 5-colour LED bar indicates the machine status in real time, allowing the operator to check it whenever necessary.

## THE ENTIRELY CLOSED STRUCTURE AND SUCTION SYSTEM ENSURE A CLEAN WORKPLACE.

The lower chip conveyor belt guarantees that the working area is always kept clean. The machine can also be equipped with a rear chip conveyor belt for unloading machining residue outside the machine area, thereby facilitating its disposal.

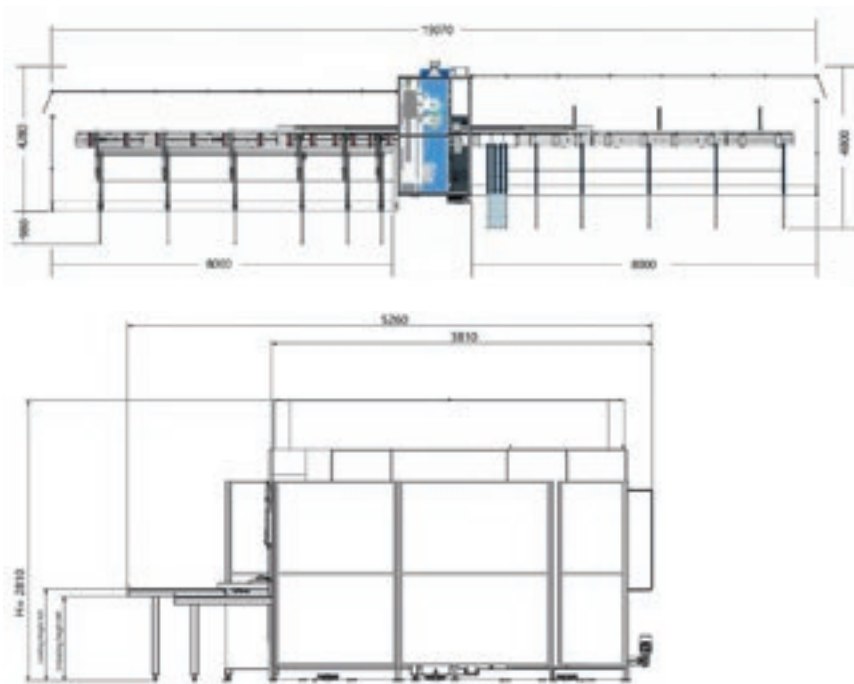


# HIGH TECHNOLOGY

The simple, user-friendly, multi-language software processes the best work strategies and provides clear, precise information for creating the work list. This makes programming easier, even for less experienced operators. Elements and projects can be directly imported from BTL format files, a 3D preview of the element can be viewed, and a few simple steps are all it takes to create an optimised machining operation list according to the beams available in the magazine. The system has a network connection for obtaining online assistance from specialised Biesse technicians.



# MACHINE LAYOUT



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.



# SERVICE & 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**

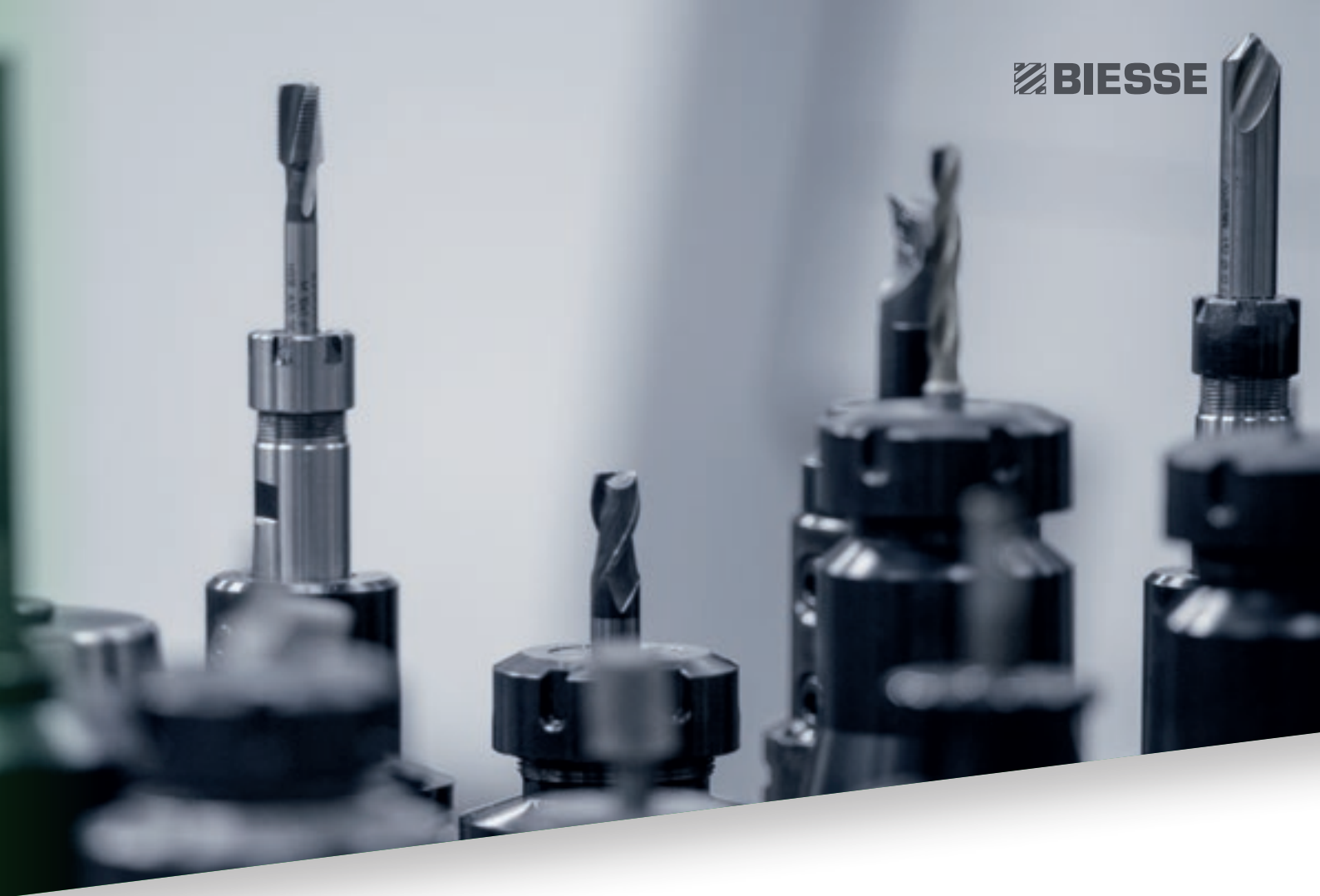
Biesse engineers manning a Teleservice Centre.

**550**

certified Dealer engineers.

**120**

training courses in a variety of languages every year.

A close-up photograph of several metal drill bits and tool components, arranged in a row. The bits are of different sizes and designs, some with black coatings. The background is a soft, out-of-focus grey.

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 and post and beam structural machining. 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 m<sup>2</sup> (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 pur-

chase, 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 concludes.

*The innovation was also featured on local television and published online:  
<http://youtu.be/8XA76a8eLAo>.*





# LIVE THE EXPERIENCE



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.**

