

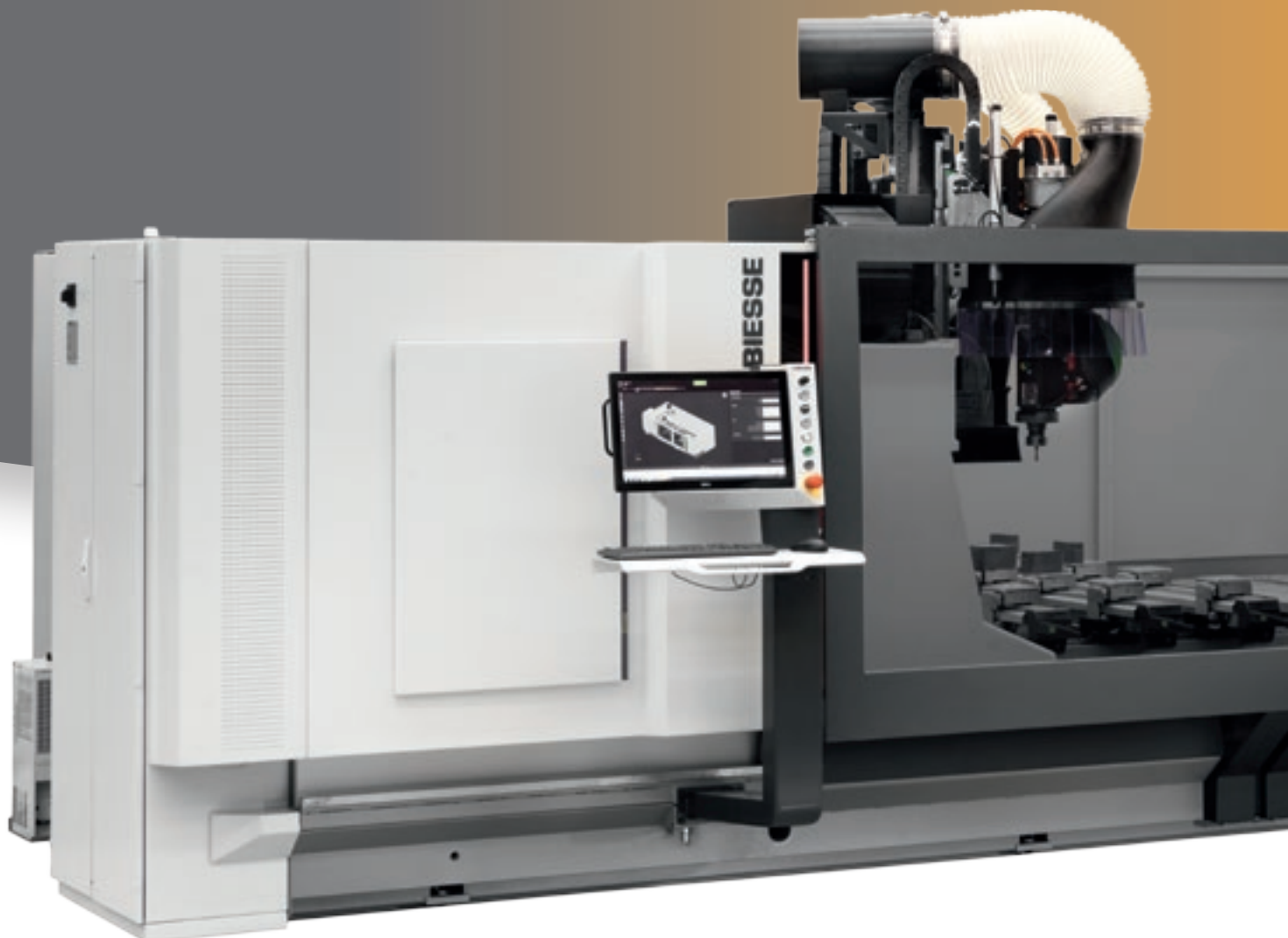
PROVER ER PLAST M5

NC PROCESSING CENTRE



 **BIESSE**

A UNIQUE SOLUTION ON THE MARKET



THE MARKET DEMANDS

a change in manufacturing processes that enables companies to accept the **largest possible number of orders**. This is coupled with the need to maintain high quality **standards while offering product customisation with quick and defined delivery times**, as well as responding to the needs of the most highly automated companies.

BIESSE RESPONDS

with high-tech, **innovative solutions** for processing technological materials. **Rover Plast M5** is the machining centre designed for the creation of unusual and unique products, larger objects and design pieces, without having to include other intermediaries. A unique technology developed for machining moulds in plastic or wood and for performing flexible finishing operations.



ROVER PLAST M5

- ▶ UNIQUE WORK PIECE HEIGHT
- ▶ MAXIMUM WORKING AREA FLEXIBILITY TO LOCK WORK PIECES WITH COMPLEX SHAPES IN POSITION
- ▶ MAXIMUM VISIBILITY OF THE WORKING AREA IN TOTAL SAFETY
- ▶ ERGONOMIC AND COMPACT

UNIQUE WORK PIECE HEIGHT

Panels of up to 536 mm in height
can be loaded onto the machine.



BIESSE OFFERS TECHNOLOGICAL SOLUTIONS FOR MACHINING PRODUCTS FOR THE VISUAL COMMUNICATIONS, PACKAGING, CONSTRUCTION AND INDUSTRIAL SECTORS, WITH MACHINES FOR WORKING WITH EXPANDED AND COMPACT PLASTIC MATERIALS, COMPOSITES AND CARDBOARDS.



Also available with a high-performance electrospindle with 5 interpolating axes and a speed of 36000 rpm.

Air Jet and Ionizer systems. Head specifically designed for machining plastic materials, to guarantee excellent machining quality.



THE ELECTROSPINDLES ARE DESIGNED AND MANUFACTURED FOR BIESSE BY HSD, A GLOBAL LEADER IN THE MECHATRONICS SECTOR.

MAXIMUM WORKING AREA FLEXIBILITY TO LOCK WORK PIECES WITH COMPLEX SHAPES IN POSITION

The structure of the machine is extremely robust and rigid, sized with cutting edge calculation and design tools.



The machine offers extreme flexibility, and can be configured in accordance with the types of machining operation to be performed.

3 possible solutions:

- ▶ 4 or 6 ATS tables with SA (Set Up Assistance).
- ▶ 4 UFT tables (Universal Flat Table).
- ▶ mixed solution with 3 ATS tables and 2 UFT tables.



SA (Set Up Assistance) optional. The work table with assisted positioning function provides the operator with suggestions regarding the best way to place the panel to be machined (indicating the position of the work tables and locking systems).



Panel locking system.



Aluminium UFT (Universal Flat Table) tables with threaded holes for attaching panels or jigs.

5 AX ES

USER-FRIENDLY TECHNOLOGY

The high technological content of the world's most popular machining centres meets the requirements of operators who process technological materials.

The 5-axis operating section, equipped with a HSD electrospindle (available in versions from 7.5 to 13 kW) with 360° continuous rotation on the vertical and horizontal axes, enables the machining of complex shapes ensuring quality, precision and absolute long-term reliability.



INCREASED VISIBILITY IN TOTAL SAFETY

The cabin enables the operator to monitor the machining operations in complete safety, providing maximum visibility of the piece being machined.



COMPACT AND ERGONOMIC



The machine can be configured with a closed cabin, allowing maximum containment of machining dusts and ensuring the work area stays as clean and as safe as possible.

TOTAL HEIGHT OF 2640 MM



ROVER PLAST M5

EXCLUSIVE TECHNOLOGY

A unique work table for machining large panels or three-dimensional pieces with particularly complex shapes.

The flexibility of configuration of the **ROVER PLAST M5** work table enables pieces of up to 536 mm in height to be machined.

Customisable in accordance with requirements, it can load any type of tool.

The **ROVER PLAST M5** is extremely compact and offers high levels of performance, with a working field of 3200x1600x536 mm in a space of 6440x2825x2640 mm (everything included) with no additional dimensions to take into account.



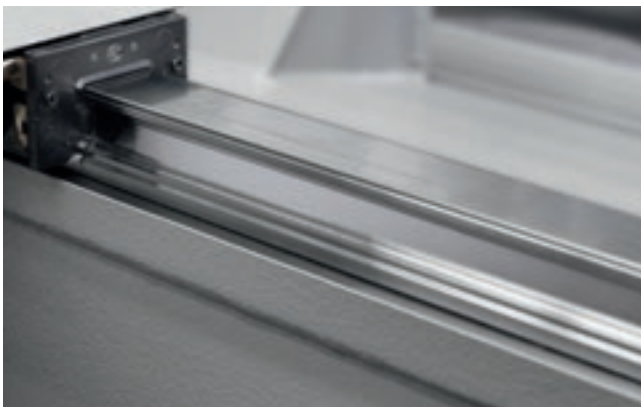
SPECIFIC SOLUTIONS FOR PERFECT FINISHES



Maximum attention has been paid to the design of the suction and chip and dust removal systems, to ensure the highest possible finish quality of the materials being machined.



Motorised conveyor belt for the removal of chips and waste.



The **linear guides** on the X axes are covered with a protective laminate and an additional set of dust guards are installed on the slide pads in order to provide optimum protection for the handling system.



The **cable-holder chains** of the Y, X and Z axes supplied with the machine are closed, and as such, are particularly useful when working with materials with a high grade of abrasion.

QUICK AND SIMPLE TOOLING

The ROVER PLAST M5 has been developed to facilitate machine tooling and maintenance activities as far as possible.



With one 16-position **revolving warehouse** which is easily accessible from the front as standard, a second optional 16-position warehouse can also be added, for a total of 32 tool spaces.



The electric panel incorporated within the machine ensures minimum working dimensions and easy accessibility during maintenance work.

THE MOST ADVANCED TECHNOLOGY CLOSE AT HAND



BPAD

Wi-Fi control console for performing the key functions required during the preparation of the working area and the tooling of the working units and tool holder warehouses.

with barcode reader and camera functions, bPad is a highly effective teleservice support tool.



BTOUCH

New 21.5" touch screen which enables you to carry out all of the functions previously performed using the mouse and the keyboard, enhancing the direct interaction between the user and the device. Perfectly integrated with the bSuite 3.0 interface (and with later versions) and optimised for touch, this solution is incredibly simple, and makes the best possible use of the Biesse software functions installed on the machine.

BPAD AND BTOUCH ARE OPTIONAL PRODUCTS THAT CAN BE PURCHASED IN THE AFTERSALES PERIOD IN ORDER TO IMPROVE THE FUNCTIONALITY AND USABILITY OF THE TECHNOLOGIES AVAILABLE.

INDUSTRY 4.0 READY

Industry 4.0 is the latest industry frontier, based on digital technologies and machines that speak to the companies. These products can communicate and interact with each other independently, during production processes that are connected by intelligent networks.



Biesse is dedicated to transforming the factories which belong to our customers, using real-time technologies which enable them to take full advantage of the opportunities offered by digital manufacturing.

Intelligent machines and software become indispensable tools that facilitate the daily tasks of the professionals all over the world who work with a range of materials, including the most technical.



INDUSTRY 4.0 READY

HIGH-TECH BECOMES ACCESSIBLE AND INTUITIVE

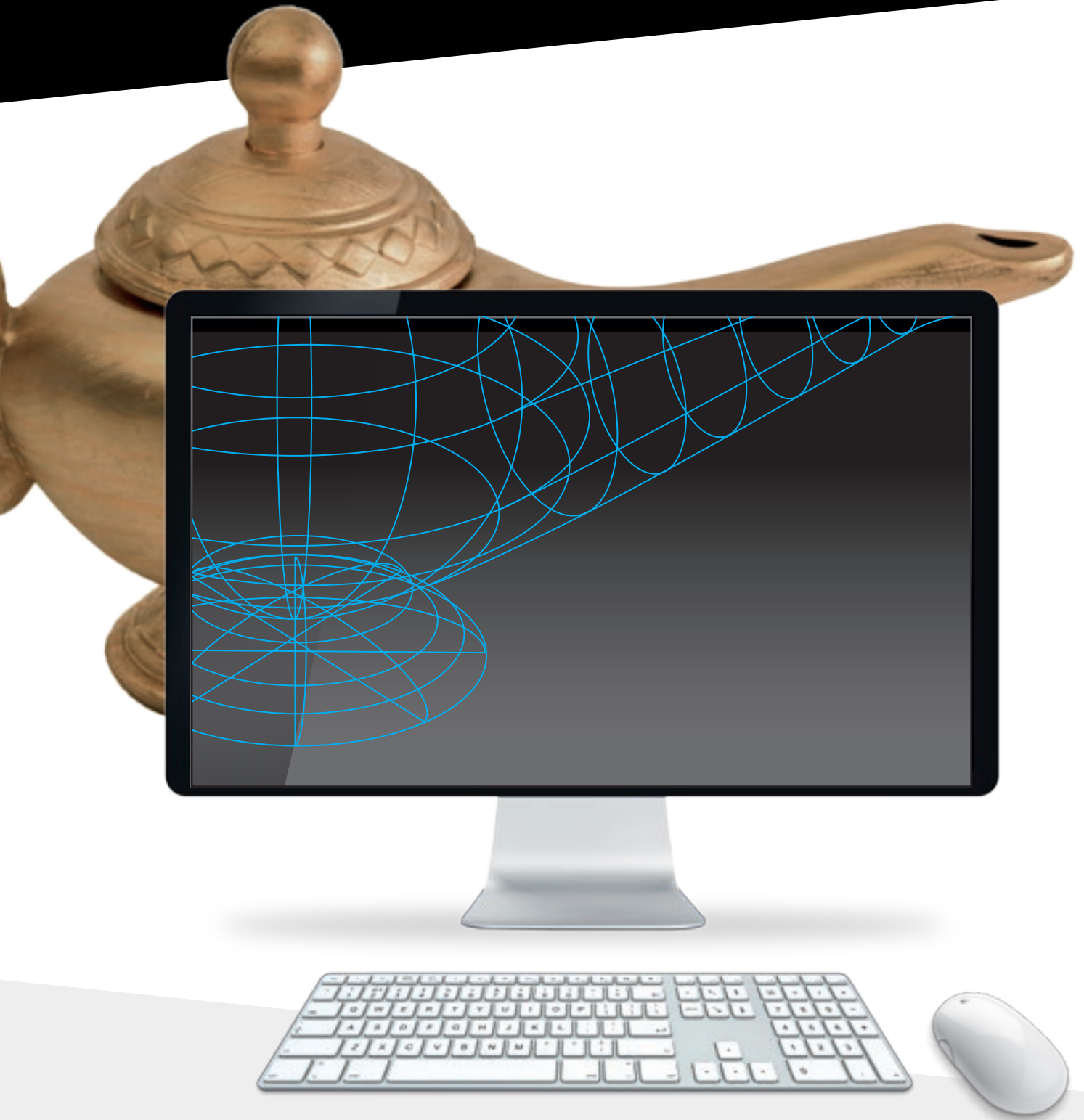


BSOLID IS A 3D CAD CAM SOFTWARE PROGRAM THAT SUPPORTS THE PERFORMANCE OF ANY MACHINING OPERATION THANKS TO VERTICAL MODULES DESIGNED FOR SPECIFIC MANUFACTURING PROCESSES.

- ▶ Planning in just a few clicks, with endless possibilities.
- ▶ Simulating machining operations to visualise the piece ahead of manufacturing and have some guidance for the planning phase.
- ▶ Virtual prototyping of the piece to avoid collisions and ensure optimal machine equipment.



BSOLID



SOPHIA

GREATER VALUE FROM MACHINES



SOPHIA IS THE BIESSE IOT PLATFORM WHICH ENABLES CUSTOMERS TO ACCESS AN EXTENSIVE RANGE OF SERVICES TO STREAMLINE AND RATIONALISE THEIR WORK MANAGEMENT PROCESSES.

IT IS BASED ON THE ABILITY TO SEND REAL-TIME INFORMATION AND DATA ON THE TECHNOLOGIES IN USE, OPTIMISING THE PERFORMANCE AND PRODUCTIVITY OF MACHINES AND SYSTEMS. IT CONSISTS OF TWO AREAS: IOT AND PARTS.

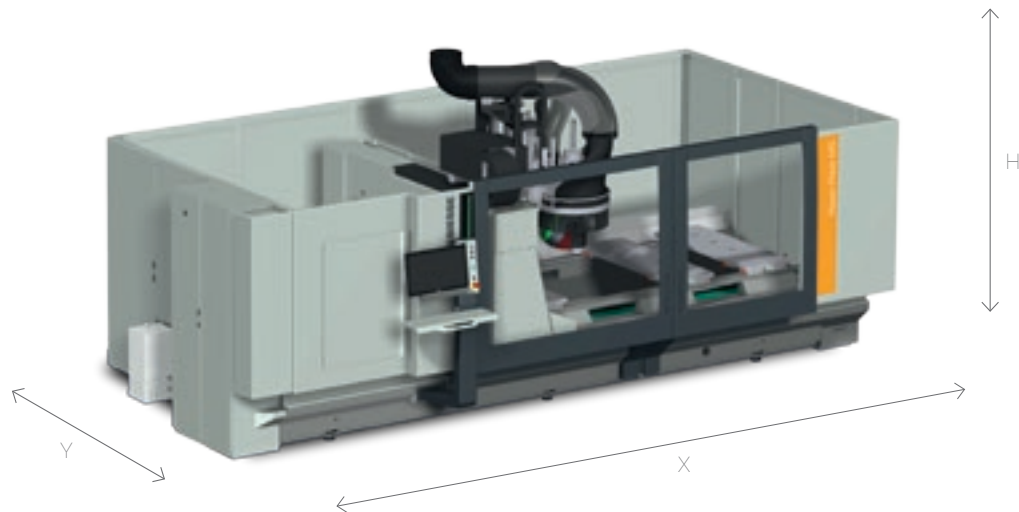
- **REDUCED PRODUCTION TIME**
- **LOWER COSTS**
- **REDUCTIONS IN MACHINE DOWNTIME**
- **OPTIMISATION OF THE PRODUCTION PROCESS**
- **INCREASE IN PRODUCTIVITY**
- **MAXIMUM QUALITY OF DAILY WORK**

The various functions of the **iOT** app offer a comprehensive overview of the specific machine performance features, with remote diagnostics, machine stoppage analysis and fault prevention.

PARTS is the new replacement parts web portal which allows users to navigate within a personalised account, providing access to all the information on purchases and enabling a replacement parts shopping cart to be submitted, and the progress of orders to be monitored.

TECHNICAL SPECIFICATIONS

The Rover Plast M5 can be installed within very restricted spaces.



Working fields

X	Y	Z
mm	mm	mm
3200	1600	358 - 536

Working dimensions

X	Y	Z
mm	mm	mm
6440	2825	2640

X/Y/Z axis speed	m/min	80 / 80 / 20
Vector speed	m/min	100

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 surface sound pressure level (Lp_{fA}) during machining for operator workstation on vane-pump machine L_{pa}=83dB(A) L_{wa}=106dB(A) A-weighted sound-pressure level (L_{pA}) for operator workstation and sound power level (L_{wA}) during machining on cam-pump machine L_{wa}=83dB(A) L_{wa}=106dB(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.

MADE WITH BIESSE

BIESSE TECHNOLOGY AND CREATIVITY BY ACTION GIROMARI

Action Giromari is a creative workshop that has been working with laser branding and engraving for over 20 years. Developed at a time when globalisation and, to some extent, standardisation were hallmarks of the global culture and economy, the company offered the market a chance to preserve and strengthen the personal aesthetic of creatives, designers and companies. The company stands out for its ability to work with any type of material.

"We don't develop a single category of products. Rather, thanks to the wide variety of materials we work with and the varied technologies we use, we are able to tailor any project, both for small scale and mass production. We develop stands, signs, branding prod-

ucts and anything that relates to visual communication. Other products include coverings, countertops and custom made interior design products for stores. We also work with several architects, who send us their designs. Our clients mainly ask us to design and create products that highlight their identity as a company to help them stand out on the market through creativity and design," Raffaele Bastianoni, the company owner, explains.

Action Giromari handles every phase of production itself, from prototyping to engineering to packaging, every single step is inspected first hand. Numerical control technology allows Action Giromari to cut, mill, score and shape each piece. The steps that follow (assembly,

gluing...) all the way to final finishing, are exclusively carried out by hand.

"Biesse technology plays a key role in allowing us to be more versatile and offer ad hoc solutions. Thanks to the new Rover Plast M5 purchased in May 2016 we have increased our production of complex shapes and 3D objects: unique products that have great value on the market. When we chose Biesse, an Italian company that offered reliability and know how, we weren't simply interested in the new numerical control milling cutter, rather we acquired a veritable partnership.

We consider Biesse a strategic partner for Giromari's technological development" Bastianoni says in closing.



ACTIONGIROMARI.IT

SERV ICE & PARTS

Direct, seamless co-ordination of service requests between Service and Parts. Support for key customers from specific Intermac personnel, in-house and/or at the customer's site.

BIESSE SERVICE

- ▣ Installation and start-up of machines and systems.
- ▣ Training centre for Biesse Field technicians, branch and dealer personnel, and training directly at customer's site.
- ▣ Overhaul, upgrade, repair and maintenance.
- ▣ Remote diagnostics and troubleshooting.
- ▣ 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 products and after-sales service through two dedicated areas: Biesse Service and Biesse Parts. With its global network and highly specialised team, the company offers technical service and machine/component spares anywhere in the world on-site and 24/7 on-line.

BIESSE PARTS

- Original Biesse spare parts and spare kits tailored to each machine model.
- 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 times optimised thanks to a global distribution network with delocalised, automated warehouses.

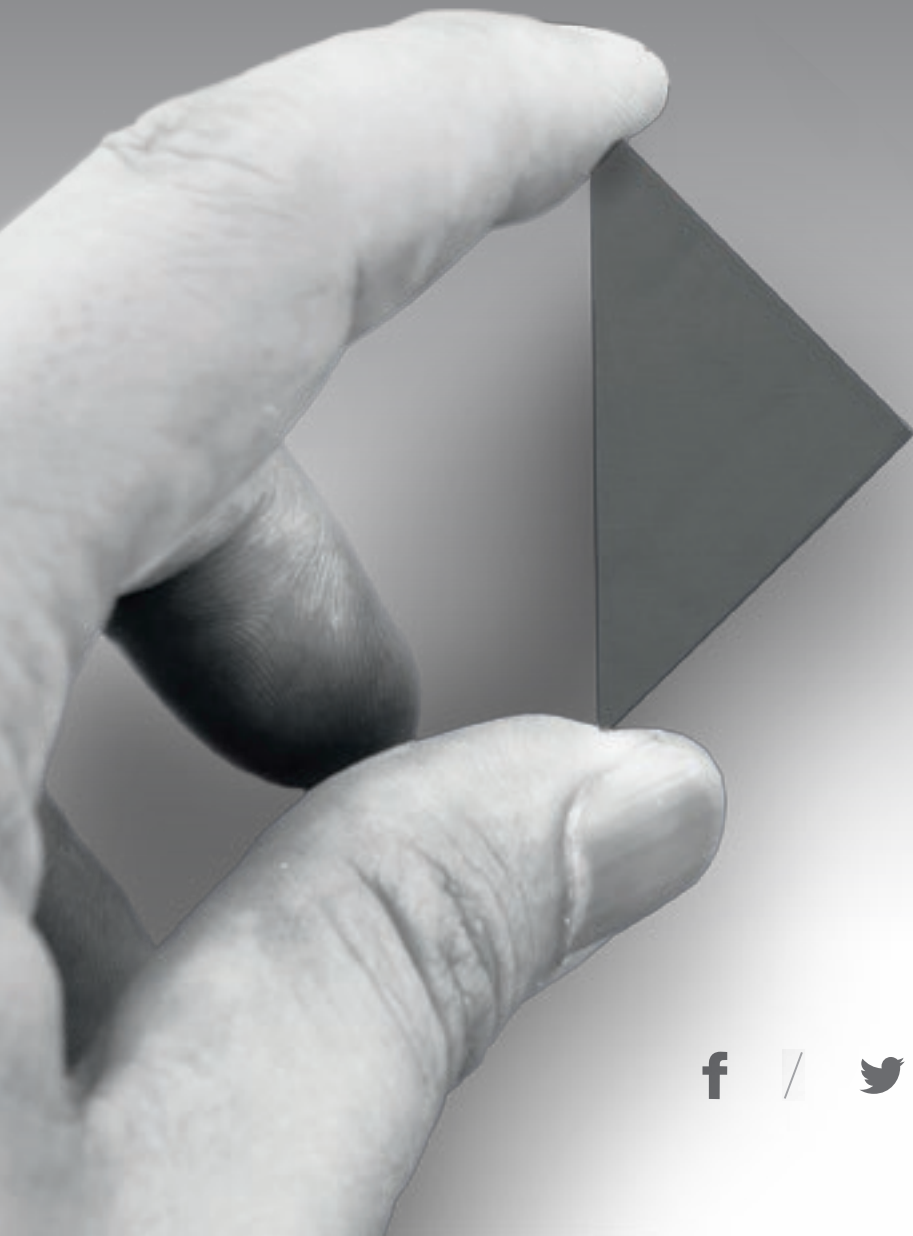
92%
of downtime machine orders fulfilled within 24 hours.

96%
of orders delivered in full on time.

100
spare part staff in Italy and worldwide.

500
orders processed every day.

LIVE THE EXPERIENCE



BIESSEGROUP.COM



E



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.

 **BIESSEGROUP**

