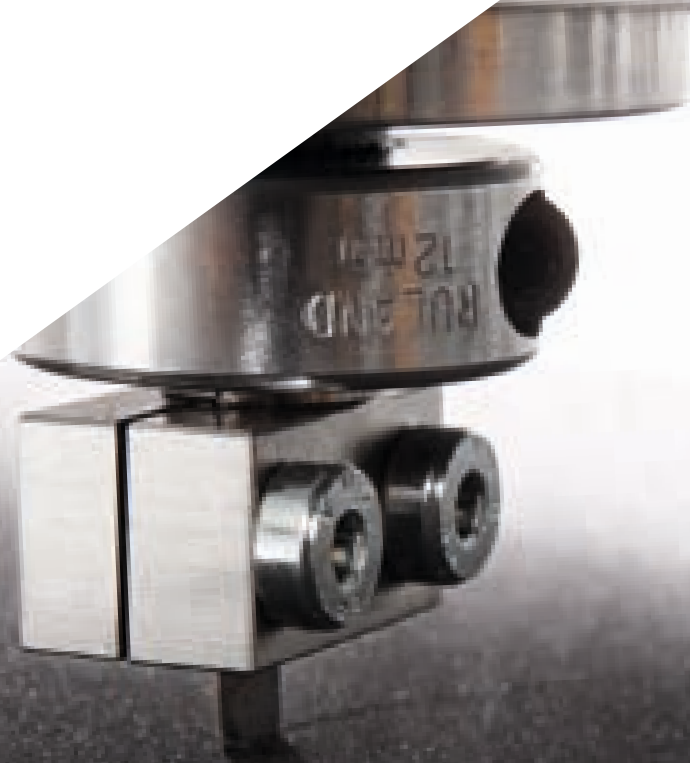


BIESSE ROVER PLAST A FT

CNC machining centres



When competitiveness
means maximum
machining freedom

Rover Plast A 

Made In Biesse

The market demands

a change in manufacturing processes that will allow companies **to accept the largest possible number of orders..** This is coupled with the need to maintain **high quality standards** whilst offering product customisation with **quick and defined delivery times.**

Biesse reacts

with high-tech, innovative solutions for processing technological materials.

The **Rover Plast A FT** is a CNC machining centre that, due to the specific innovations for the processing of technological materials, has proven to be extremely reliable and competitive on the market.

- ✓ **Advanced technical solutions to guarantee exceptional finish quality.**
- ✓ **High-specification components for superior performance.**
- ✓ **Maximum panel grip for optimal machining precision.**
- ✓ **Cleanliness for the product and safety for the operator.**

Maximum precision in
processing technological
materials



ROVER PLAST A FT
CNC machining centres



Maximum precision in processing technological materials

Biesse provides solutions for the processing of materials for the packaging, visual communication, building and industrial sectors, processing expanded and compact plastics, composites and cardboard.





Processing flexibility

A specific Research & Development team creates pioneering solutions to meet the requirements of the market for technological materials and offer cutting-edge technology that is reliable and guarantees first class results.



Electrospindles of up to 36,000 RPM for exceptional speed and performance. Electrospindles, boring heads and aggregates are designed and manufactured for Biesse by HSD, the global leader in the mechatronics sector.

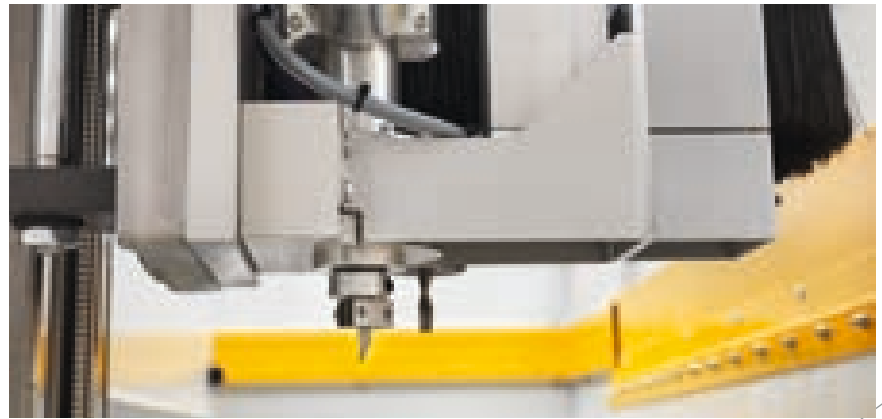




Maximum precision for many type of machining operation thanks to the **Tangential/Oscillating Blade**, the specific tool unit for processing plastic and composite materials. The titanium components in the cutting unit guarantee long term life, reliability and quality.



The **Tangential/Oscillating Blade** unit can be fitted with a video camera accessory for the management of print markers, an option that's particularly well-suited to the graphic arts sector. The camera can also be used with the milling unit.



Up to **24 aggregates and tools** available on the machine. No operator intervention is required between machining operations.



Reduction of tool change set-up time and the possibility of operator error, thanks to the **contact pre-setter**, which automatically determines the length of the tool.

Performance without limits



The only solution for performing milling and cutting operations on technological materials. The tangential/oscillating blade, coupled with a camera for reading print markers, supports the full processing of materials for the graphic arts industry. The precision and quality typical of Rover's technology support the perfect execution of all standard machining centre processing operations.

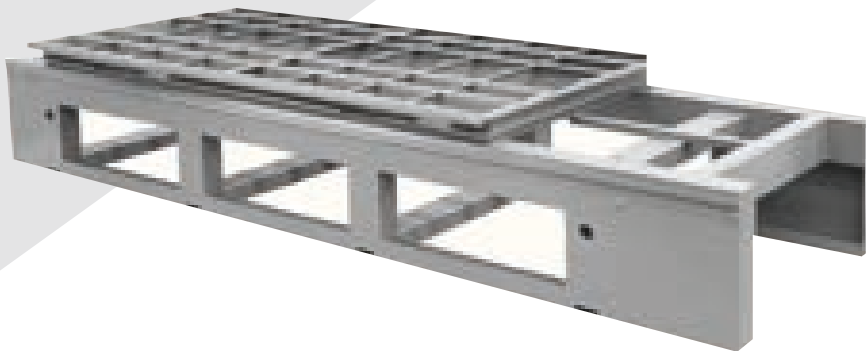
A close-up photograph of a machine tool, likely a lathe or mill, showing a rotating metal part and a cutting tool. The background is a soft, out-of-focus teal and white gradient.

ROVER TECHNOLOGY

The high technological content of the world's most popular machining centres meets the requirements of operators who process technological materials. A perfect combination of Biesse innovation and Italian genius.

Long Term precision and reliability

The Rover Plast A FT has a robust and well-balanced structure that's designed to handle demanding machining requirements without compromising the quality of the finished product.



The heavy **monolithic base** guarantees solidity and absence of vibration, for consistent long term product quality.

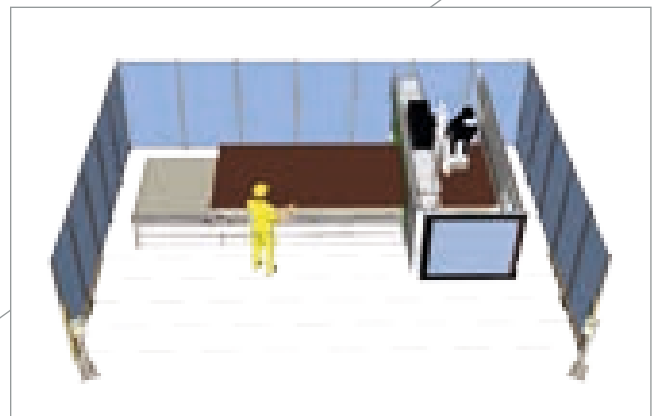
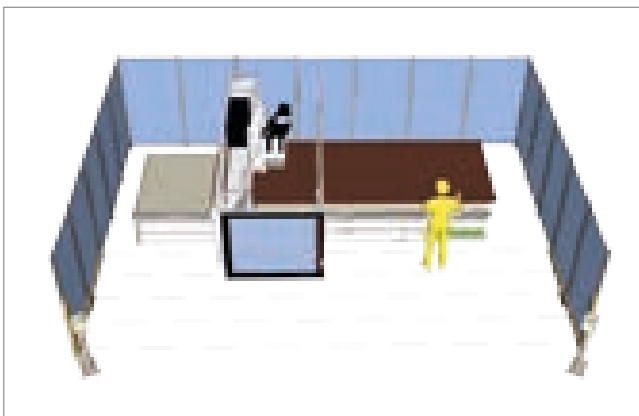


The **Gantry structure** with dual engine is designed to increase precision and reliability standards for the execution of machining operations.

Higher motor power increases acceleration up to 4 m/s^2 and speed up to 100 m/min .



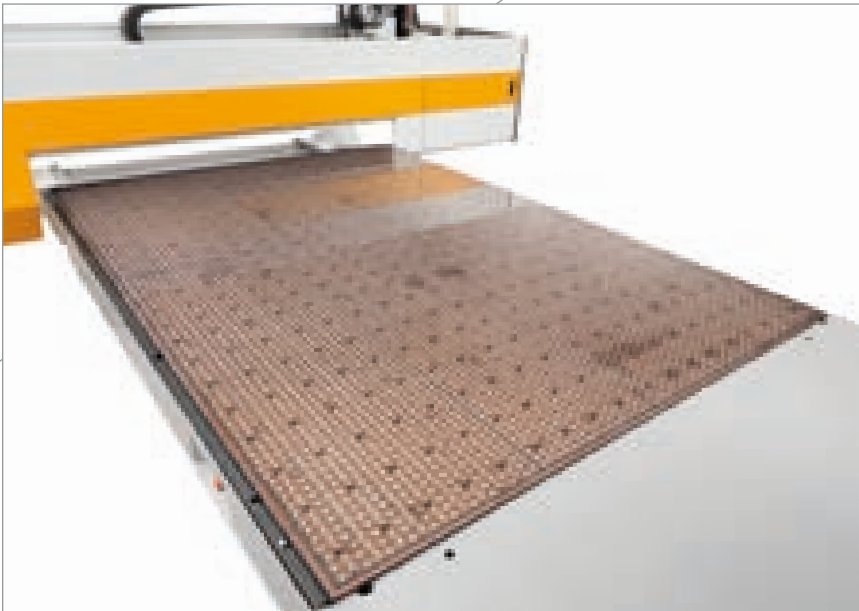
The stand-alone version of the Rover Plast A FT is the most compact solution currently available on the market. It enables the operator to access the machines' three sides, guaranteeing maximum ergonomic comfort and safety.



The machine can be configured with tandem loading in order to process alternate panels. This allows for loading or unloading operations to be carried out during machining operations.

Processing panels of different materials and sizes

The Rover Plast A FT offers a wide range of solutions for processing large and small panels of various materials and thicknesses.



The **polycarbonate work table** with micro-perforations generates a vacuum to keep the work components locked in place.



The **breathable felt base** is ideal for performing cutting operations with an oscillating or tangential blade.

Maximum panel gripping thanks to an **advanced vacuum distribution system** built into the work table. Multi-zone technology designed to concentrate the vacuum in smaller areas of the work table where required, in order to hold smaller components and reduce vacuum loss.



The **large number of sizes** available enables operators to process all standard panel dimensions required for nesting.

Rover Plast A FT 1224
Rover Plast A FT 1531
Rover Plast A FT 2231
Rover Plast A FT 2243

Cleanliness for the product and safety for the operator

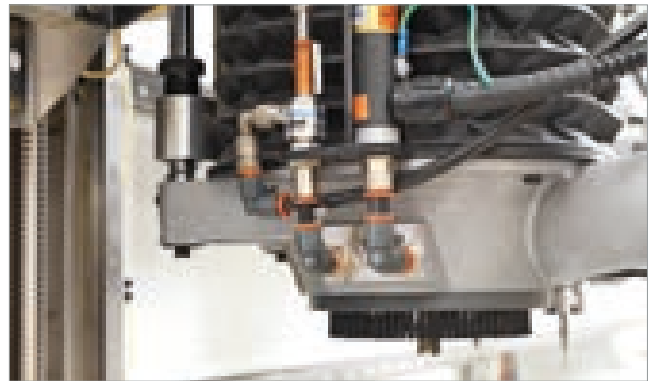
The processing of technological materials requires the complete and constant cleaning of the panel to be processed in order to obtain high quality standards. Biesse has developed specific solutions in order to ensure perfect finishes.



CNC **extraction hood** dedicated to the sector's processing activities.



Ionizer to eliminate electrostatic loads and ensure a better finish.



- ✓ **The linear guides on the X axes** are covered with a protective laminate and an additional set of dust guards are installed on the slides' pads in order to protect the system against abrasive dusts.
- ✓ **The cable-holder chains** on axes Y, X and Z are furnished in a closed version that's particularly useful when processing materials like non-ferrous metals, which are capable of damaging cables and compressed air hoses.



Automated lubrication is an option that ensures the continuous lubrication of the machine's main moving parts without the need for operator intervention.

Predisposed for **Manzel lubrication** in order to provide a better finish during aluminium processing operations.



The **Air Jet System** cools the tool with air at -14°C in order to keep the tool from overheating and prevent the material from melting.



Working unit **total protection**. Maximum visibility of machining operation. **LED bar with 5 colours** showing machine status in real time.



Perimeter guards with access door and safety device to prevent accidental contact with the machine.

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 view the process prior to manufacture and maximise material and process efficiencies.**
- ✓ **Virtual prototyping of the component to avoid collisions and ensure optimal machine efficiency.**

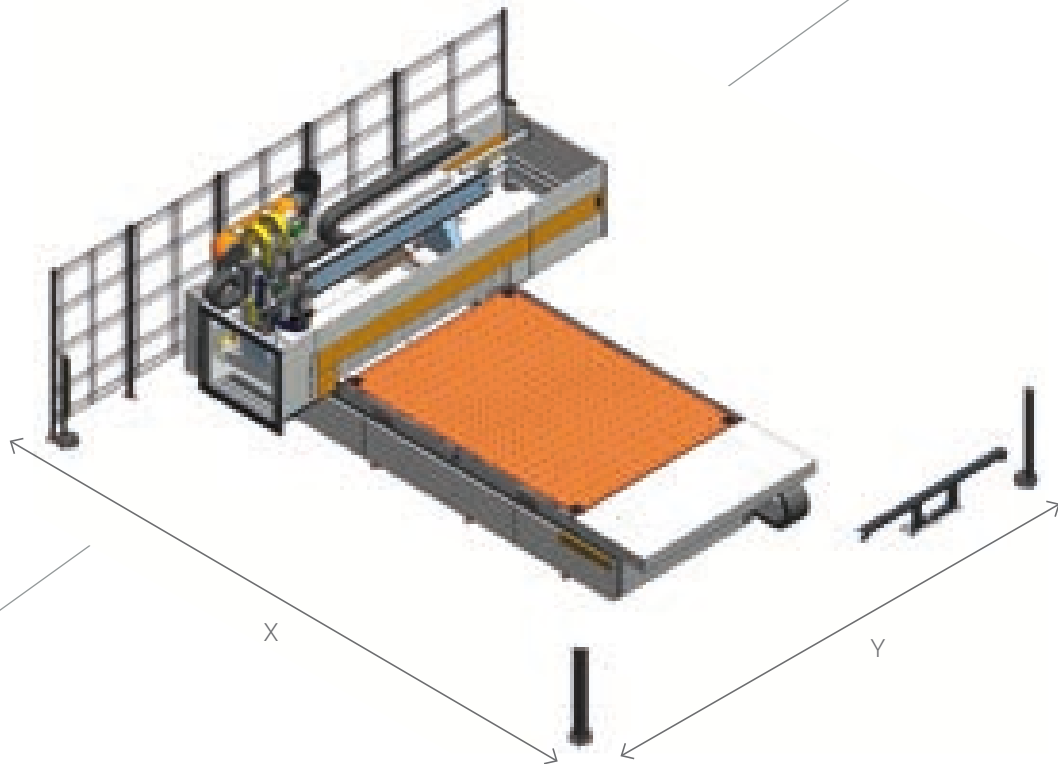
Watch the **bSolid** ad at: youtube.com/biessegroup



bSolid



Technical specifications



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.

Weighted sound pressure level A (LpA) during machining at the operator's workstation on the vane-pump machine Lpa=79dB(A) Lwa=96dB(A) Weighted sound-pressure level A (LpA) at the operator's workstation and sound power level (LwA) during machining on the cam-pump machine Lwa=83dB(A) Lwa=100dB(A) Measurement uncertainty K 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.

Working fields

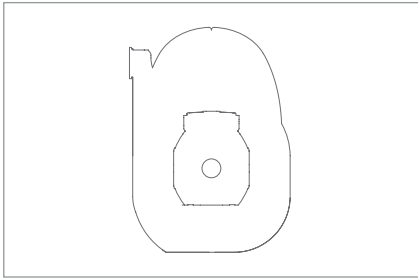
	X	Y	PENDULAR
	mm	mm	mm
Rover Plast A FT 1224	2465	1260	-
Rover Plast A FT 1531	3100	1560	805
Rover Plast A FT 2231	3100	2205	805
Rover Plast A FT 2243	4300	2205	1405

Working dimensions

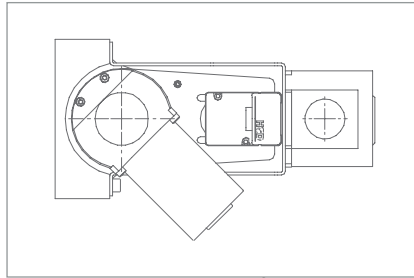
	X	Y	H	H max
	mm	mm		mm
Rover Plast A FT 1224	6530	4740	980	2450
Rover Plast A FT 1531	7160	5070	980	2450
Rover Plast A FT 2231	7160	5730	980	2450
Rover Plast A FT 2243	8340	5730	980	2450

X/Y/Z axis speed	85/60/20 m/min
Vector speed	104 m/min

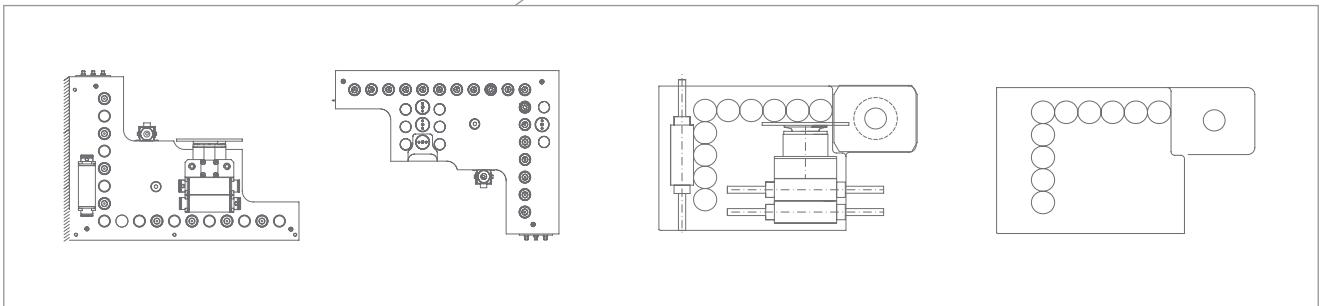
Configuration



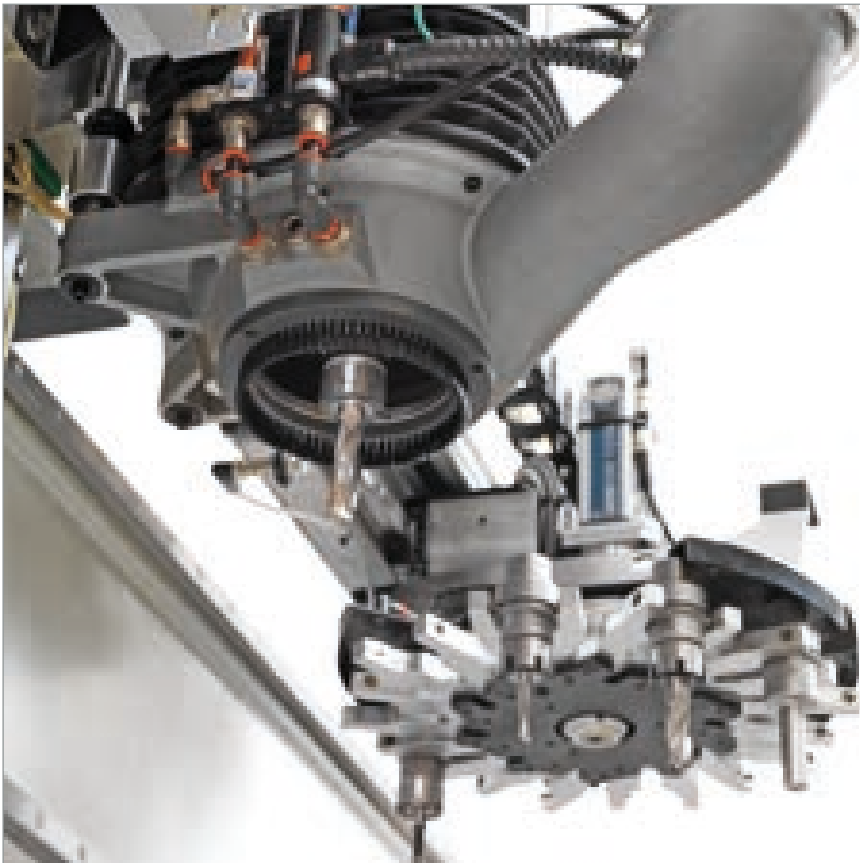
Milling unit from 7.8 to 19.2 kW.



Tangential / Oscillating blade.



Boring heads available from 10 to 25 spindles: BH25 L - BH18 - BH17 - BH10.



Biesse machining centres for processing technological materials

MACHINING CENTRES



ROVER PLAST J FT



SKILL PLAST FT



ROVER PLAST A FT



ROVER PLAST B FT

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 start-up.
- ✓ 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.

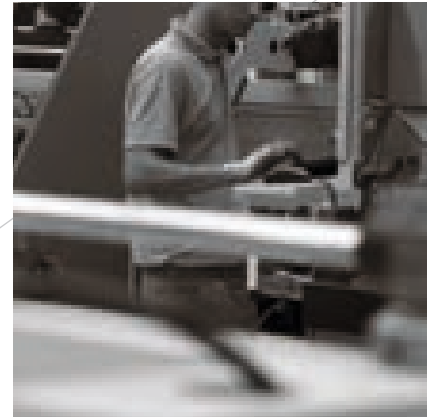
50 / Biesse engineers manning a Teleservice Centre.

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 specialised team, it 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 customised spare kits depending on 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 fulfilment time optimised thanks to a global distribution network with de-localised, automated warehouses.

87% ✓ of downtime machine orders fulfilled within 24 hours.

95% ✓ of orders delivered in full on time.

100 ✓ spare part staff in Italy and worldwide.

500 ✓ orders processed every day.



BIESSEGROUP

 **BIESSE**

 **INTERMAC**

 **DIAMUT**

MECHATRONICS

In

1 industrial group, 4 divisions
and 8 production sites

How

€ 14 million p/a in R&D and 200 patents registered

Where

33 branches and 300 agents/selected resellers

With

customers in 120 countries: manufacturers of furniture, design items, and door/window frames, producers of components for the construction, nautical and aerospace industries

We

3000 employees worldwide

