

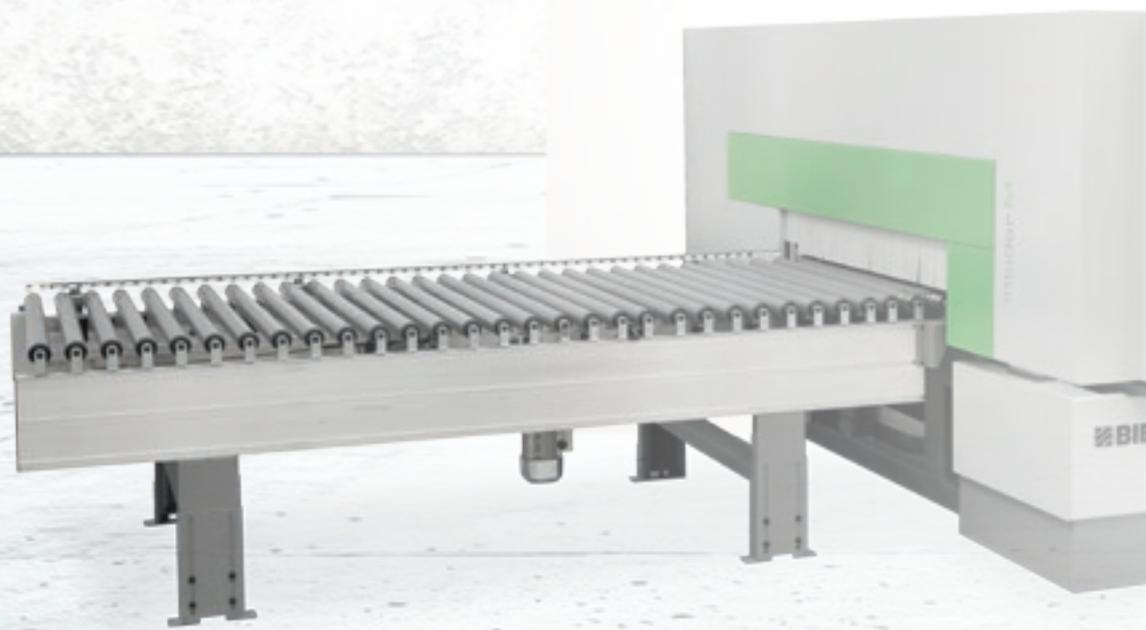
Insider M

flexible boring machine



 **BIESSE**

When competitiveness
means the perfect blend
of productivity and
quality



Made **In** Biesse

The market requires

a change in production processes to meet the ever growing request for customised products to satisfy customers' specific needs coupled with quick, certain delivery times. Production volumes are no longer a certainty and manufacturing using statistical analysis is not a valid option. Production diversification is key to success.

Biesse responds

with **technological solutions** able to meet the requirements of companies who manufacture to order, with notably reduced costs and cycle times. **Insider M** is the flexible boring machine that's ideal for batch-1 machining operations and "just-in-time" production. It's the perfect machine for producing both assembled and kit furniture, and for the complementary production of third parties.

- ▶ **Machining quality, thanks to the combined boring cycle.**
- ▶ **Reduced cycle time, thanks to the machining of all 6 panel faces.**
- ▶ **Perfect integration and completion of boring lines with high production volumes.**



All the panel faces
in one single
movement



Insider **M**
flexible boring machine



Personalisation on the basis of the customer's needs

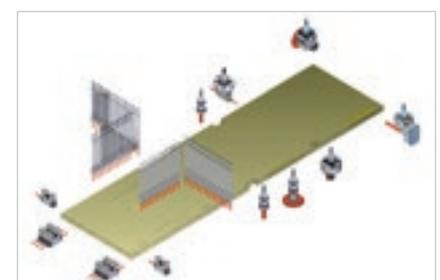
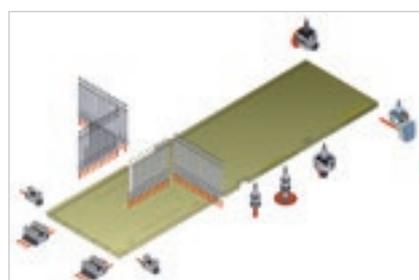
Possibility to configure the machine according to the production and machining requirements. Insider M can be configured in the FB or FT version, depending on the number and layout of the boring heads.



Insider M FB can be configured with 4 boring heads (2 lower and 2 upper).

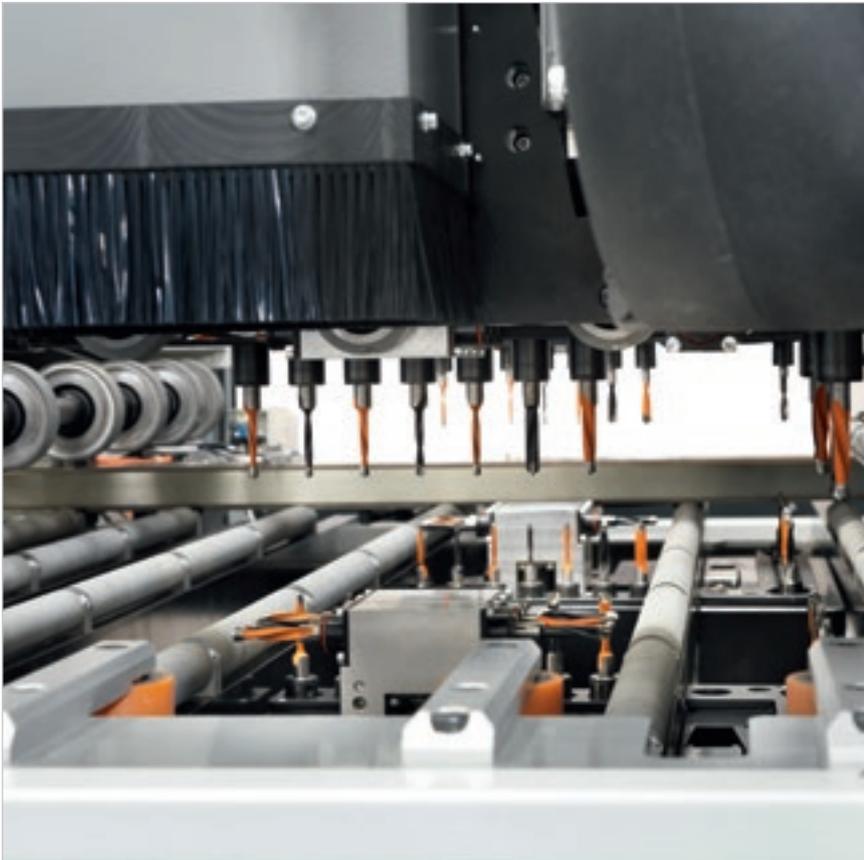


Insider M is able to perform all horizontal, vertical, upper/lower boring operations, as well as grooves and operations carried out with electrospindles.



Machining quality

Insider M can work all the panel faces to ensure reduced cycle time, optimised machining operations and high productivity.



Lower and upper boring heads for through boring, and horizontal spindles.



Upper boring unit with vertical/horizontal spindles and electrospindle unit with 8-position tool change.



Combined boring

The perfect alignment of the 2 upper heads and the 2 lower heads in the Z axis allows a combined boring cycle, guaranteeing excellent through boring quality whilst maintaining the surface of the panel.

THROUGH DRILLING

High performance levels in both the stand-alone version (with productivity up to 1500 pieces) and as a version integrated into high volume boring lines (with productivity up to 2000 pieces, including 15% with boring on the upper and lower parts). A perfect combination of Biesse flexibility and Italian genius.

Optimum panel hold



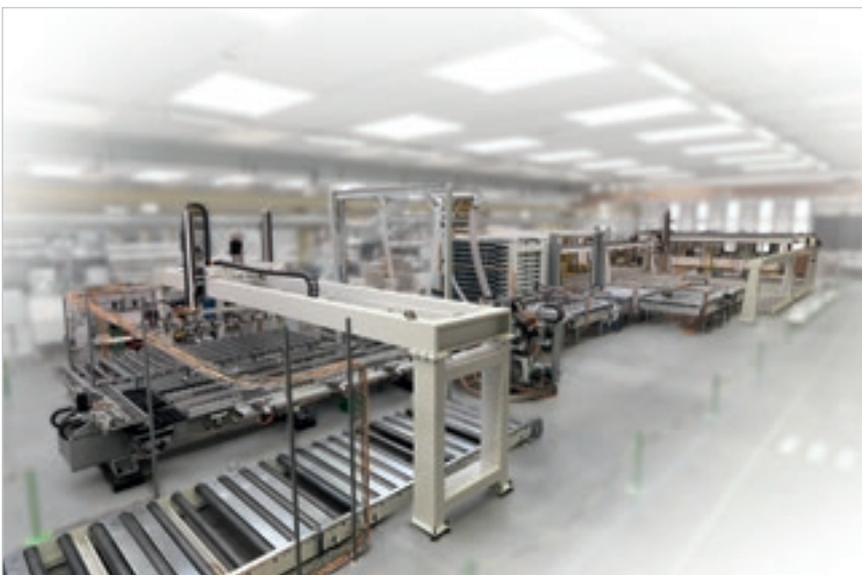
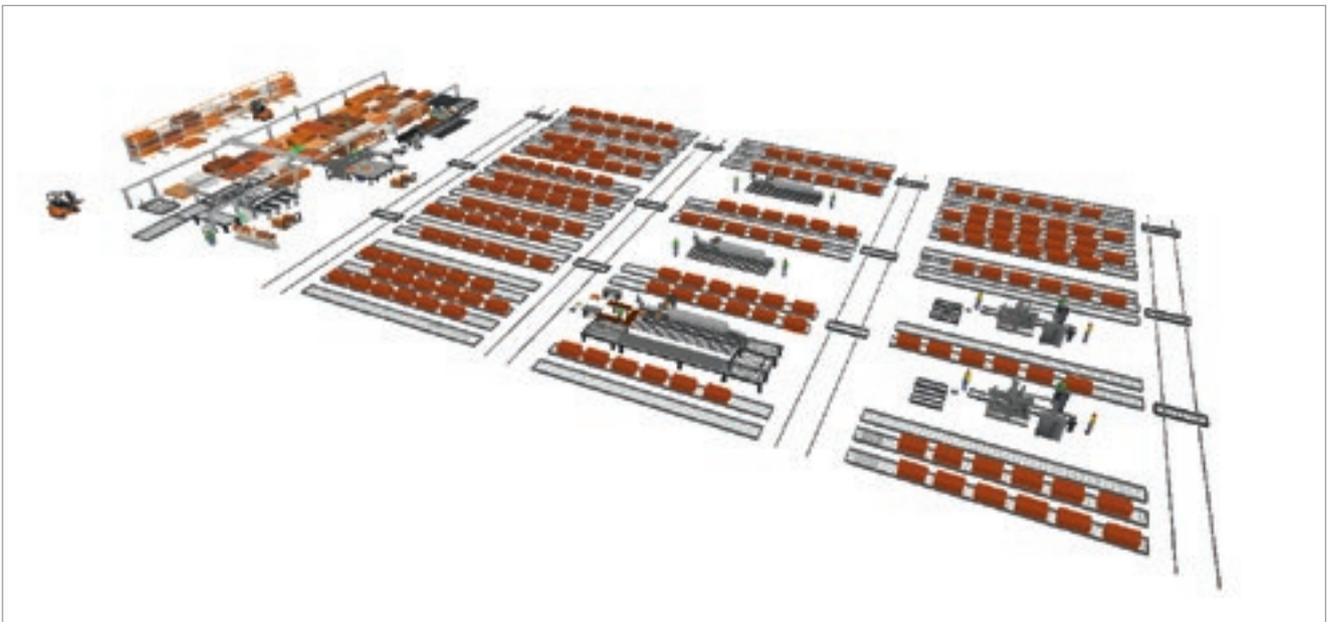
The panel is moved thanks to the perfect combination of the belt haul-off system and the side pusher. This system allows the lower units to be housed beneath the work table.



The combined in-feed system (using the upper presser) guarantees an optimum hold on the panel, even during lower boring. In addition, it enables automatic detection of the piece dimensions (with the aid of the infeed photocell and the pusher).

Complete integration in the factory

Insider M is the ideal solution for flexible boring in batch-1 processes.



Batch-one system with multi-operational magazines (Buffer and Sorter), fully integrated.

Flexibility for small batches

The batch-1 process allows the user to process small groups of different panels in sequence according to the specific production requirements, with zero set-up time and maximum production optimisation (for up to 1200 pieces per shift).





BATCH ONE

A single project based on various machines and processes, with one important production target. A wide range of Biesse solutions ranging from cutting to flexible boring, with special attention paid to the piece squaring quality. A perfect combination of Biesse flexibility and Italian genius.

High-tech becomes accessible and intuitive



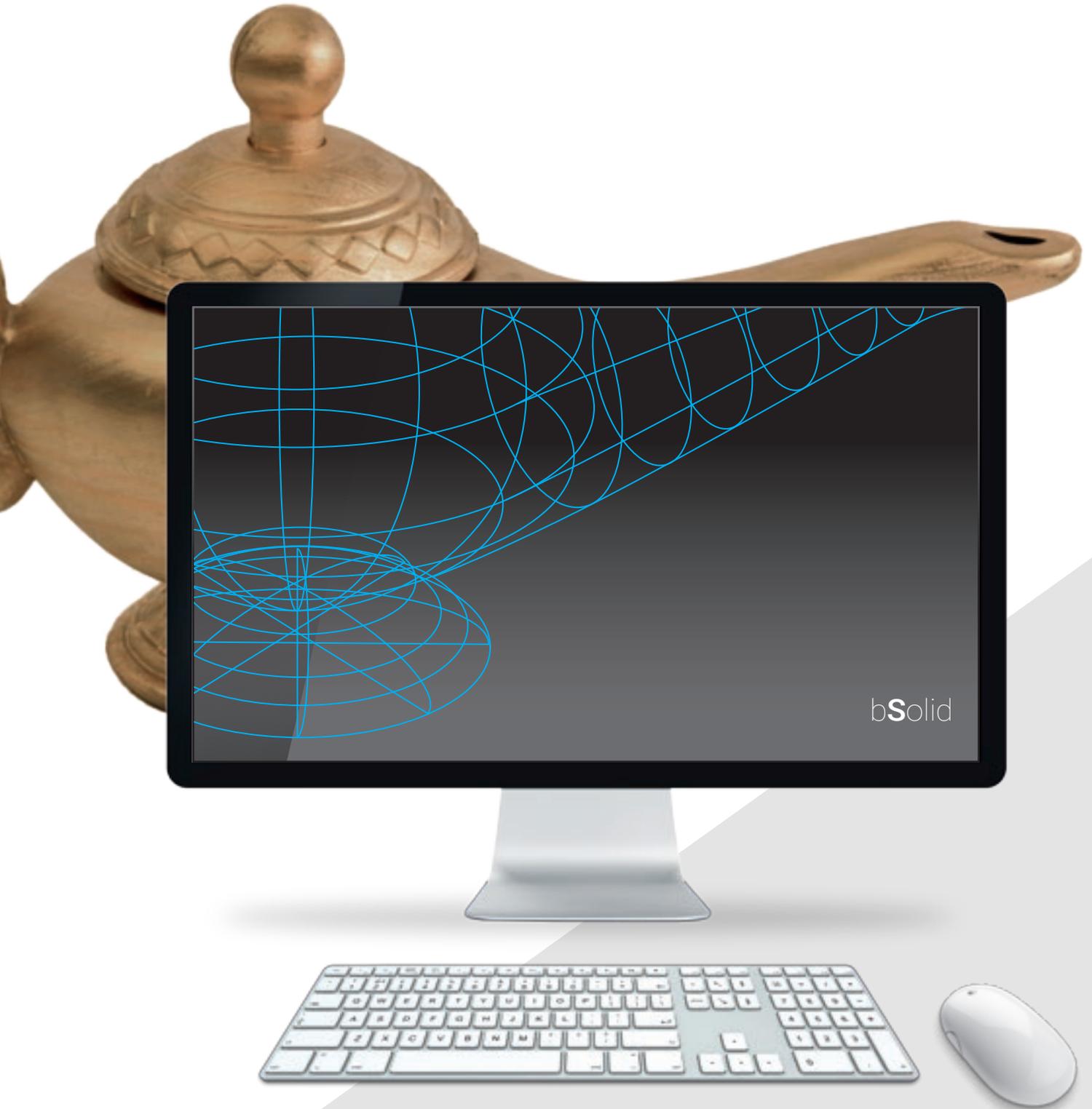
bSolid is a 3D cad cam software program that supports the performance of any machining operation thanks to vertical modules designed for specific manufacturing processes.

- ▶ **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.**

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



bSolid



Safety and easy use for the operator

Biesse machines are designed to enable operators to work in complete safety.

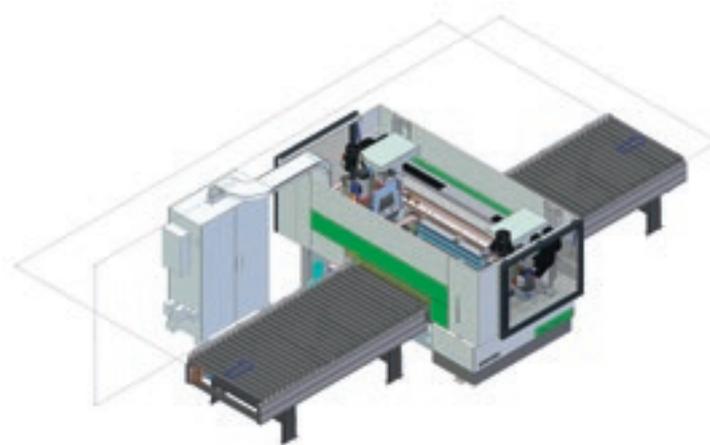


Maximum visibility of machining operation. LED bar with 5 colours showing machine status in real time.



Simple, user-friendly control panel.

Technical specifications



Overall Dimensions

	Insider M 800	Insider M 1300
X	7710 mm	7710 mm
Y	3460 mm	3940 mm
H	2230 mm	2230 mm
Work table height	900 mm	900 mm

Working Field

	Insider M 800	Insider M 1300
Length X	min 260 - max 3000mm	min 260 - max 3000mm
Length Y	min 60 - max 800mm	min 60 - max 1300mm
Height Z	min 10 - max 60mm	min 10 - max 60mm

Speed

	Insider M 800 - Insider M 1300
Axes	X= 65 / Y= 95 / Z= 25
Vertical spindles	min 3000 - max 7200 rpm
Electrospindles	min 12000 - max 24000 rpm

A-weighted sound pressure level (LpA) during machining for operator workstation on vane-pump machine Lpa=80dB(A) A-weighted sound-pressure level (LpA) for operator workstation and sound power level (LWA) during machining on cam-pump machine Lwa=99dB(A) K measurement uncertainty 4 dB(A).

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.

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 spares and spare kits customised 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 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.

Made **With** Biesse

Italy as a byword for design and innovation

One of Brazil's most famous furniture brands, SCA's core business is the manufacturing of furniture for corporates, large offices and the hospitality and maritime contract segments. Approximately 70 shops in Brazil and 6 abroad.

"Italy leads the way in design and innovation. For us, it is also a reference point as far as technology is concerned. Before making an investment, we evaluate potential suppliers very carefully, analysing their technical service, response times and accessibility in our country of origin. I am not going to deny that

we looked at other company's offers, but we chose an Italian supplier because Biesse has always provided us with a level of service and consultancy that is fully aligned with our needs".

Today Biesse is our best technical partner. We trust them very much, just like we trust the work, professionalism and experience of their representatives in our country.

Source: excerpt from an interview with the Chief Executive Officer of Sca Indústria de Móveis, Claudio Manfroi



[http:// www.sca.com.br](http://www.sca.com.br)



Biesse boring range

VERTICAL BORING AND INSERTION



Skipper V31



Brema Eko 2.1



Brema Eko 2.2



Brema Eko 902



Brema Vektor 15

VERTICAL BORING AND INSERTION



Brema Vektor 25



Brema Idrak



Active Drill



Insider FT2



Insider FTT



Insider M

BORING

BORING



Insider Door FB



Techno Line



Elix



Matrix



Insider Door KB

BORING AND INSERTION



BIESSEGROUP

 **BIESSE**

 **INTERMAC**

 **DIAMUT**

MECHATRONICS

In 

1 industrial group, 4 divisions and 9 production sites.

How 

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

Where 

37 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 building, nautical and aerospace industries.

We 

3800 employees throughout the world.

