

Brema PLAST EKO 2.1

vertical machining centre
for machining technical pieces in real time



 **BIESSE**

When competitiveness
means reducing
production times

Brema Plas

Made In Biesse

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 whilst offering product customisation with quick and defined delivery times.

Biesse responds

with innovative **technical solutions** for machining advanced materials. **Brema Plast Eko 2.1** is the new compact and versatile vertical machining centre with reduced footprint, for machining panels of different thickness and sizes made from a range of technological and composite materials. It is the ideal solution for the “just in time” production of finished parts, which can be machined on all six faces, with “zero-time” recovery operations.

- ▶ **Optimal product quality.**
- ▶ **Maximum manufacturing efficiency thanks to the elimination of set-up times.**
- ▶ **Machine customisation depending on production requirements.**
- ▶ **Dedicated solutions for processing advanced technological materials.**

Minimum footprint,
maximum
performance



Brema **PLASTEKO 2.1**

vertical machining centre for machining technical pieces in real time



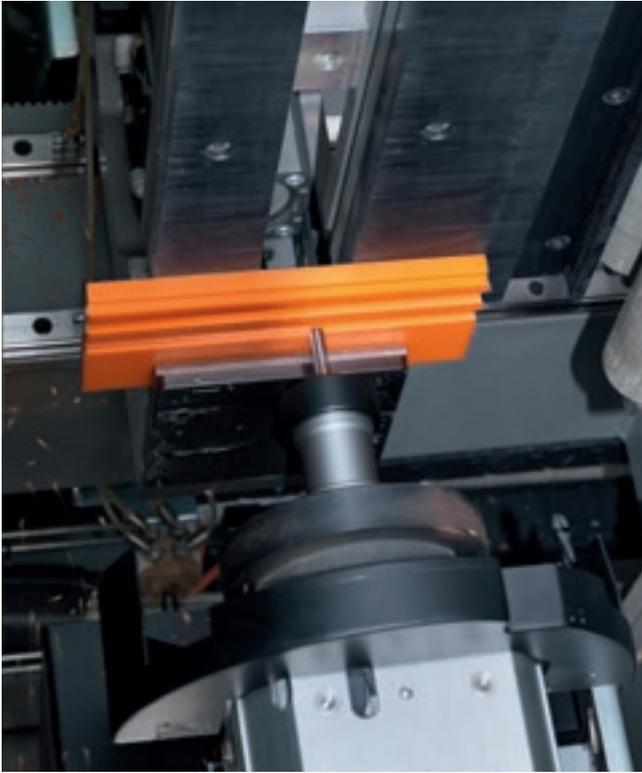
Optimal product quality

Biesse offers technological solutions for the creation of technical pieces for subcontractors, mechanical components on high-tech materials, visual communications, construction and industry goods and packaging, with machines for working with expanded and compact plastic materials, composites and cardboards.

Electrospindles, boring heads and aggregates are designed and manufactured for Biesse by HSD, the global leader in the mechatronics sector.



Brema PLAST EKO 2.1



The machine's structure and components guarantee the highest level of precision for any type of machining operation.

Unrivalled solutions

Compact machine with vertical alignment, perfect for machining operations on plastic and composite materials. Cutting-edge technology with mechanical systems for automatically positioning the item to be machined. Complete with accessories for tool management, pre-setter system, airjet and air ionizer, for optimum finishing results.



VERTICAL DRILLING

The only patented vertical alignment technology on the market, equipped with devices dedicated to machining technological materials. A perfect combination of Biesse innovation and Italian genius.

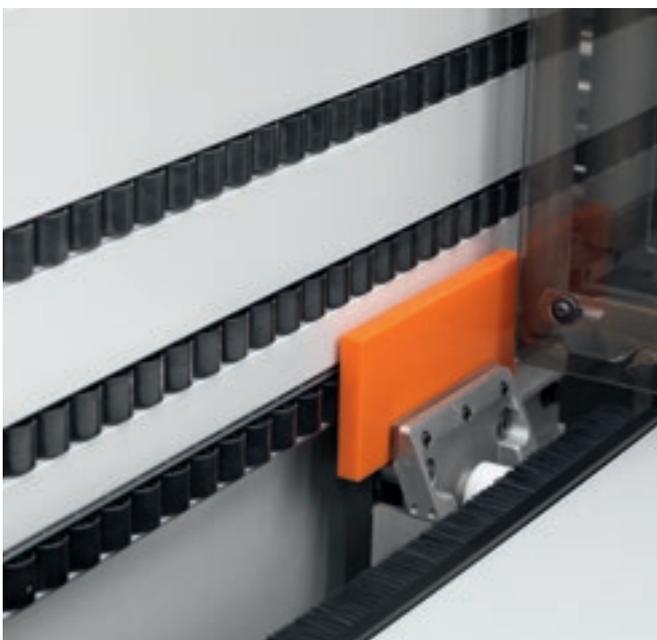
Maximum manufacturing efficiency thanks to the elimination of set-up times



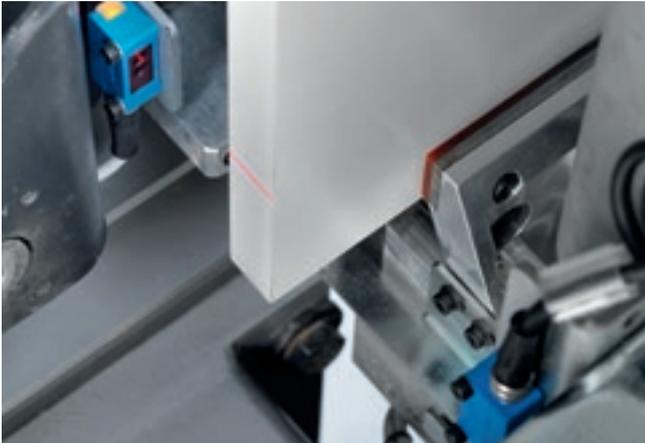
The vertical positioning of the Brema Eko Plast 2.1 and the work table with rubber rollers ensure optimal ergonomic loading/unloading, facilitating the machining of even the most delicate surfaces.

The work table is fitted with a counter-pressure system that keeps the material perfectly in position within the machine in accordance with the thickness of the piece being machined, ensuring maximum precision.

In addition, the clamps are fitted with a panel thickness detection system that enables the machine to modify the programme's values in real time, guaranteeing the precision of "Z"-axis machining operations.



Brema PLAST EKO 2.1

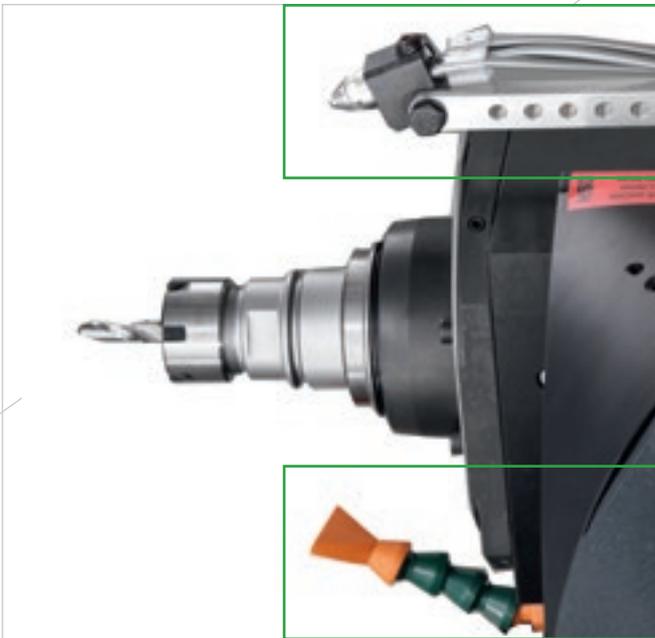


The laser scanner system that detects the start and the end of the material enables the machine to compensate for dimensional errors, correcting the panel's X dimensions.

The upper sensor systems consists of two photocells that can detect the height of the material and correct the size with respect to the "Y" axis.

8-position tool magazine that manages different types of aggregates, thus increasing the machine's versatility.

Dedicated solutions for processing advanced technological materials

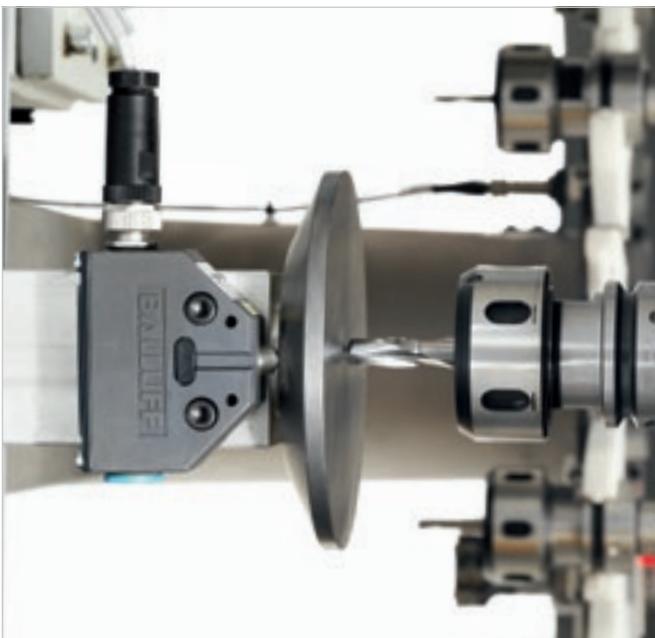


The Air Jet System cools the tool with air at -14°C in order to keep the tool from overheating and prevent the material from melting.

Ionizer to eliminate electrostatic loads and ensure a better finish.

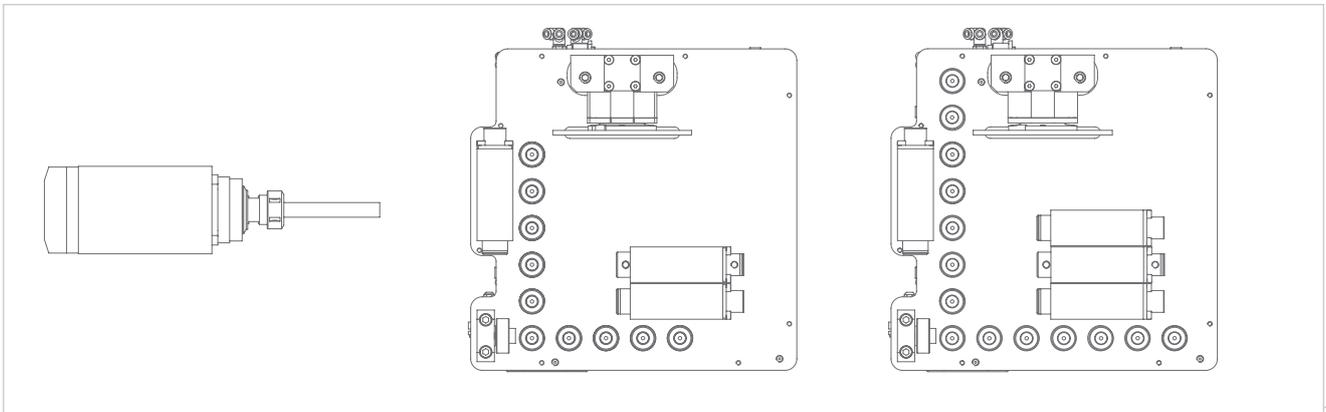


Reduction of tool change set-up time and elimination of operator error, thanks to the contact pre-setter, which automatically determines the length of the tool.



Machine customisation depending on production requirements

Two boring units are available, with either 17 or 23 tools, in combination with the 5.5 kW eletrospindle unit.



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/biessegroup



bSolid



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.

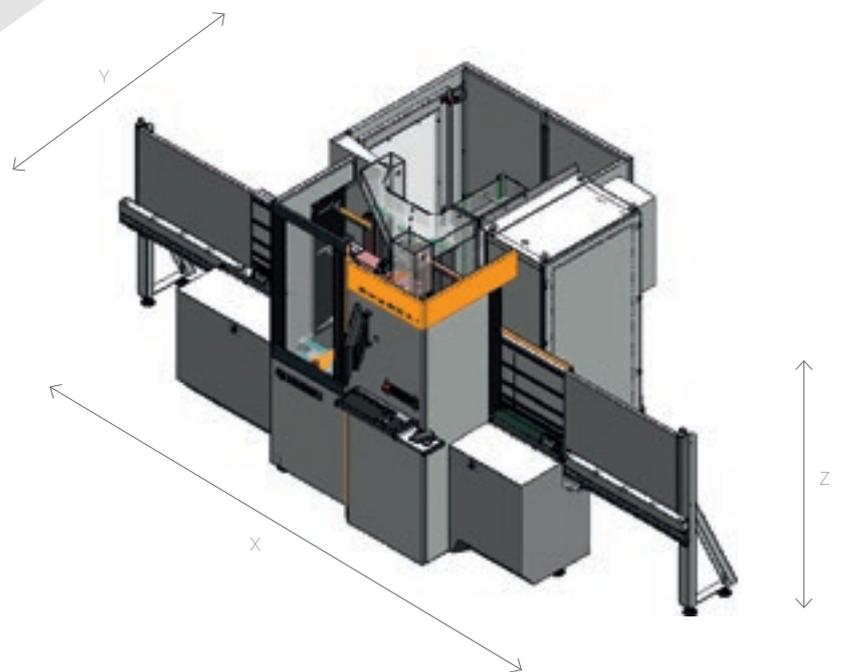
87%  of downtime machine orders fulfilled within 24 hours.

95%  of orders delivered in full on time.

100  spare part staff in Italy and worldwide.

500  orders processed every day.

Technical specifications



Machine size	2800x1940x2000 mm
Min. size of machined panel	200x35x8 (2.5 opt) mm
Max. size of machined panel	2600(3200)x900x60 mm
Vector speed	(x-y) = 65, z=20 m/min

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) dB(A) 75
 Weighted sound pressure level A (LwA) dB(A) 90
 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.

Made **With** Biesse

Upm Modena: from the concept to the finished product.

Matthew Gualdi is the commercial director of Upm, the Modena-based company that has been operating for over seventy years in the visual communications and illuminated sign sector, as well as more recently in the general contractor industry. "We are able," states Gualdi "to offer turnkey solutions, from concept to

finished product, tailored to the needs of our customers. We manage all design, technical, bureaucratic and logistics aspects with a winning combination of highly-qualified technical and graphics staff, who work with advanced tools, cutting-edge technologies and innovative materials." Biesse has played a de-

cisive role in transforming Upm's commitment to innovation into a reality: "We had always used machines that could be defined as slightly 'niche'. Then, we decided to equip ourselves with a more technologically-advanced and powerful machine: and we found the perfect solution with Biesse Group".



www.upm-italy.com



Biesse Advanced Materials range

CNC



Rover Plast J FT



Rover Plast A FT



Rover Plast B FT

CNC



Rover Plast M5



Materia CL



Materia LD

CNC



Materia FC



Materia MR



Materia XB

VERTICAL CENTRE



Brema Plast Eko 2.1

SIZING



Selco Plast SK4

Selco Plast WN6

WATERJET CUTTING SYSTEMS



Primus Plast 184

Primus Plast 202-322-324-326

SANDING



Viet Plast S211-S1-S2



Viet Plast Opera 5 - Opera 7 - Opera R



Viet Plast Narrow



Viet Plast Valeria



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

