



Biesse
Machinery

Product Portfolio

Drilling





Product Portfolio



Founded in Italy in 1969
International natives

We simplify your
manufacturing
to make the process
of any material

Your ing process potential ial shine

We are an international company that manufactures lines, machinery and components for making products, enhancing the potential of a wide range of materials.

Thanks to our rooted competence nurtured by an ever-growing worldwide network, we support your business evolution - empowering your imagination.

Master of materials

Join the
Biesse world.

[biesse.com](https://www.biesse.com)



Wood

We manufacture wood processing machines for the furniture, window and door and building component industries.



Discover
all our machines
for wood



biesse.com

Rover

Machines

Stream

Extended Machines

Identify in a few words
the most suitable machine
for your needs from
our product portfolio.

Machining type

Segment

Cut

Cutting

Edge

Edging

Drill

Drilling

Fin

Finishing

Multi

Multi-machining

Pro

Distinctiveness and performance

Up

Agility and expertise

Go

Simplicity and compactness

Rover

Rover embodies the essence of machining operations on wood, representing the machine that is at the heart of the entire production process.

It is a comprehensive range of stand-alone machines, designed to work in perfect synergy with the operator, where human skill and experience is combined and enhanced, thanks to the coordinated and efficient management of each machining phase. Intuitiveness, simplicity and flexibility are the foundations upon which the entire process is built.



Stream

Stream is the extension of the machine, rendered more powerful and fully automated.

Stream represents our combined machine offering with integrated automation. It is an independent solution which offers a high level of autonomy throughout the process, reducing operator intervention to a minimum.

It never stops, guaranteeing total efficiency and autonomy.



Machining Types

A machining operation
for every requirement



Cut

Cutting

Panel saws with blade cutting for panels made of wood and its derivatives.



Edge

Edging

Edgebanders and single-sided or double-sided squaring and edgebanding machines for processing panels made of wood and its derivatives.



Drill

Drilling

Boring and inserting machines for glue, dowels and hardware for panels made of wood and its derivatives.

The machining types represent the different kinds of machining operation, and define the specific end purpose or application of an operation.



Fin

Finishing

Calibrating-sanding machines for finishing the surfaces and assembly systems of panels made of wood and its derivatives.



Multi

Multi-machining

Range of machining centres for carrying out different types of operation: milling, boring, nesting, the shaped edgebanding of panels and the production of door/window frames, stairs and various applications on solid wood - all on one single machine.

Segment

Your needs,
our skill

Your daily challenges feed our experience, as they enable us to get to know your requirements, your production dynamics and your spaces.

In order to respond to your needs, we have designed a portfolio of products to guide you in the most appropriate choice for you.



Distinctiveness and performance

Pro represents excellence in terms of performance, designed for customers who wish to distinguish themselves with the latest-generation solutions that they choose.



Agility and expertise

The perfect choice for managing custom production requirements. The Up solutions combine advanced flexibility and functionality, guaranteeing efficient responses to constantly-evolving production challenges.



Simplicity and compactness

The Go solutions are designed for those looking for compact, easy-to-install machines that are simple to use. Ideal for those looking for a practical, immediate approach.

Drilling

Boring and inserting machines for glue, dowels and hardware for panels made of wood and its derivatives.



Drill

Discover
all our drilling
machines

biesse.com



Dowel

Product Brand	Model	Segment
Rover	Rover Drill Up D H	Up
	Rover Drill Go D H	Go

Routing Dowel & Inserting

Product Brand	Model	Segment
Rover	Rover Drill Up R H	Up
	Rover Drill Up R V	Up
	Rover Drill Go R V	Go
Stream	Stream Drill Pro R V	Pro

Throughfeed Dowel & Inserting

Product Brand	Model	Segment
Rover	Rover Drill Pro T C	Pro
	Rover Drill Pro T C M	Pro

Dowel

Rover

Rover Drill Up D H



Precise and fast: 2 dowels in 3 seconds for perfect production

Insert 2 dowels per panel with unmatched speed and accuracy. Ideal solution for just-in-time production as well as large batches thanks to the minimum cycle time.

Fits to the actual size

Laser reading systems to detect the real length and thickness of the panel, with automatic correction of the working dimensions, allows the management of parametric programs in the work list and ensures consistently high-quality results.

Make precision great

NC axes enable precise, automated positioning, reducing setup time and ensuring consistent accuracy and flexibility in operations. Available as standard for X axis in all versions and as an option for Y and Z axes.



Unmatched speed and precision for complex production needs

Streamlined and versatile.

Offering unmatched speed and flexibility with a high number of spindles for both horizontal and vertical drilling. Fully controlled axes ensure precision and adaptability, making it the ideal compact solution for demanding and complex production needs.

Guaranteed response: Remote Assistance you can rely on

Remote assistance packages ensure fast technical response times and seamless. Machine Connectivity services to keep your operations running smoothly.



Up

Meets operational needs

From a single horizontal spindle to multiple horizontal and/or vertical spindles, combined with glue injection system and dowel plug-in to meet different operational needs.

Ergonomics for greater efficiency

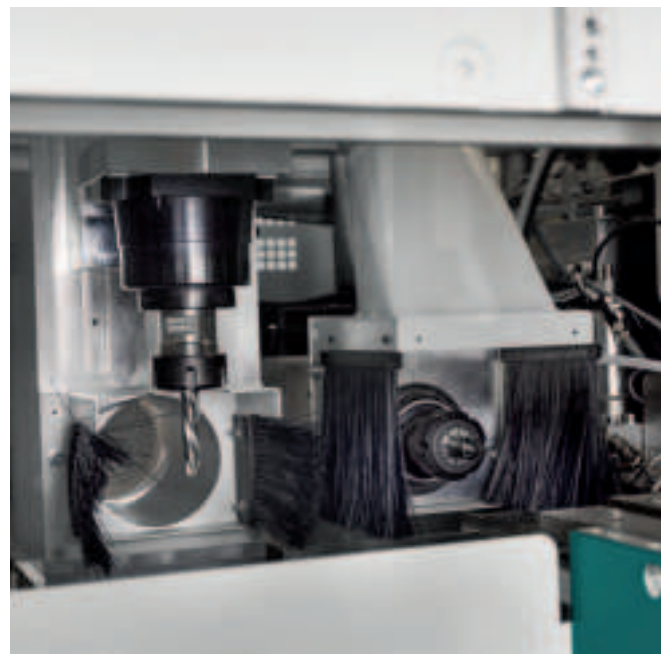
A front LED bar provides information on panel length, active working area, restricted zones for vertical pressers, and machine status, assisting the operator in performing tasks accurately.

Routing

The machine can be equipped with a horizontal and vertical milling unit for making grooves, pockets and slots boosts the machine's versatility, making it suitable for more complex and high-value production tasks.



Precise
and fast:
2 dowels
in 3 seconds
for perfect
production



Drilling units

Various setups of drilling spindles are available, providing flexibility to accommodate a broad range of customer drilling needs.

Fits to the actual size

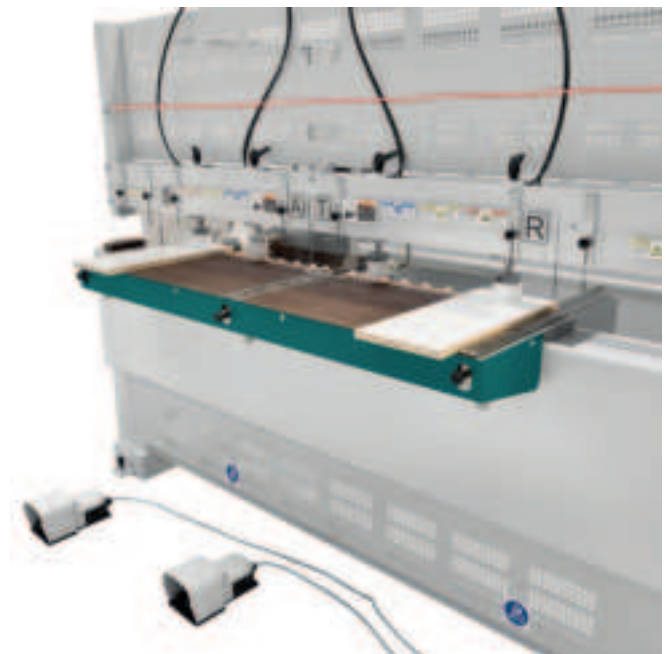


Up



Glue spreading

A reliable glue injection system, available also with high-pressure glue pump, guarantee the absence of glue leakage improving process speed and efficiency.



Dowel insertion

The dowel insertion system with optical fiber presence detection ensures dowels are always ready without waiting times, speeding up the process.

Dowel

Rover

Rover Drill Go D H



Precise and fast: 2 dowels in 3 seconds for perfect production

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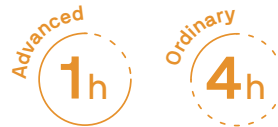
3 seconds to perfection

Precision and versatility: the drilling and dowel-inserting machine for artisans and efficient production.

The point-to-point drilling and dowel-inserting machine designed for flexibility, perfect for artisans with just in time production or to complete the machining tasks on elements for kitchens, furniture, drawers, obtained from nesting.

Guaranteed response: Remote Assistance you can rely on

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Meets operational needs

From a single horizontal spindle to multiple horizontal and/or vertical spindles, combined with glue injection system and dowel plug-in to meet different operational needs.

Ergonomics for greater efficiency

A front LED bar provides information on panel length, active working area, restricted zones for vertical pressers, and machine status, assisting the operator in performing tasks accurately.

Narrow pieces

Dedicated presses enable the processing of even narrow pieces, significantly enhancing the machine's versatility and broadening its range of applications for various piece sizes.

Go

Routing Dowel & Inserting

Rover

Rover Drill Up R H



High Versatility

Thanks to the availability of large upper/lower drilling units, it is possible to sequentially execute elements with variable drilling patterns without operator intervention for retooling.

Double or through

The overlapping drilling units allow to work simultaneously 2 overlapping panels guaranteeing a double productivity as well as quality through-holes without chipping on a single panel.

High-Speed Handling

High-speed grippers enable the optimization of cycle times, significantly reducing overall production time while maintaining exceptional quality in the finished product.

Not just drilling

The availability of dedicated operating units allows to perform not only drilling operations but also milling, grooving and dowel insertion.



Unmatched flexibility for Just-in-Time and custom production

Designed for small-batch production, offering the flexibility needed for just-in-time manufacturing. It's also ideal for the custom departments of large companies and wherever adaptability and customization have become integral to the standard operations.

Guaranteed response: **Remote Assistance** you can rely on

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Up

Change size is not a problem

The double-grippers system allows to work in sequence panels of different sizes without operator intervention. In addition, compared to vacuum systems, it allows any material to be processed, regardless of its breathability.

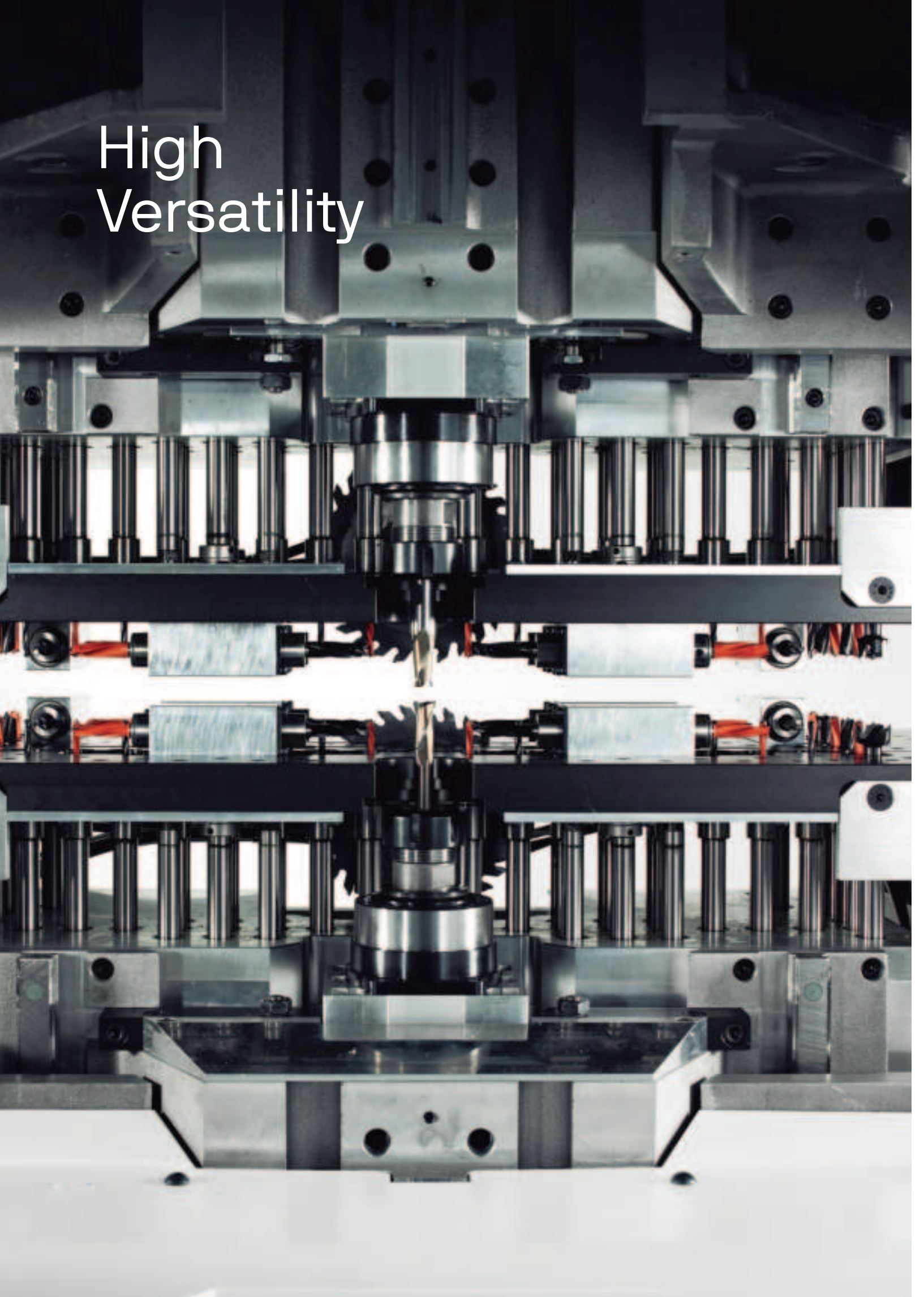
Precision & Efficiency

The dimensional detection system measures the X-Y dimensions of the workpiece in real time, automatically adjusting the machining positions.

Ergonomics

User-friendly PC-based operator interfaces, combined with manual loading systems featuring air-flow planes or automated loading/unloading systems, enhance operator ergonomics and ease of use.

High
Versatility





Up

Double or through



01



02

01. Drilling

Wide availability of vertical and horizontal drill bits always available allows drilling for many different functional purposes.

02. Routing and grooves

Additional operating groups allow milling, grooving and pocketing.



Change size is not a problem



Dowel insertion

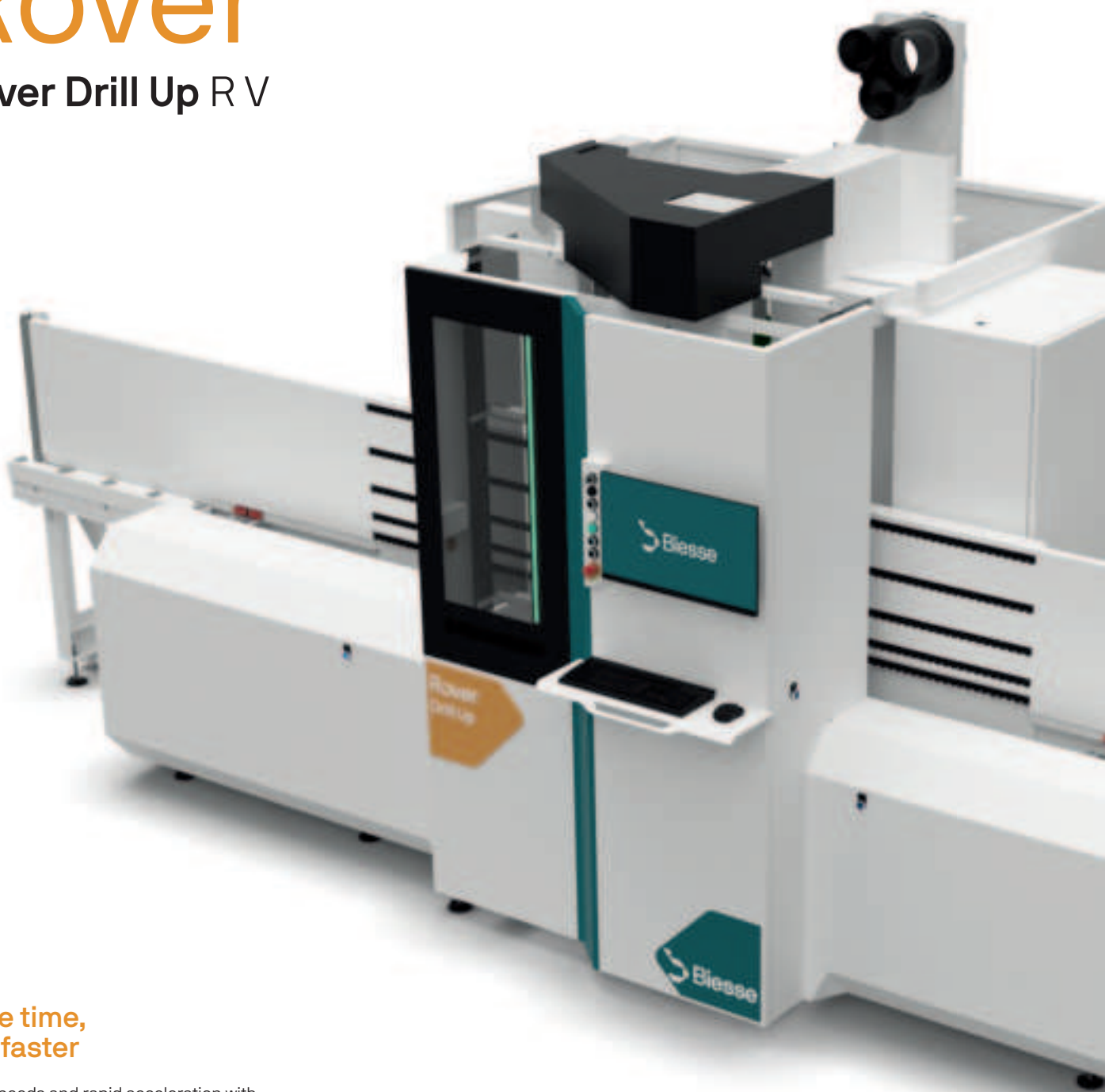
System of glue injection and dowel insertion with two opposing units, for machining the two ends of the panel.

Up

Routing Dowel & Inserting

Rover

Rover Drill Up RV



Save time, run faster

High speeds and rapid acceleration with double grippers, drastically reducing machine cycle times during panel displacement and repositioning.

Different size, zero problem

Thanks to the double gripper system, the machine effortlessly handles elements of varying sizes without requiring operator intervention. This ensures a seamless transition between tasks, eliminating the need for manual adjustments and boosting overall efficiency.

Flexibility

The availability of multiple tools, which can be used within the same process automatically, effectively increases the operating flexibility of the system.

Soft and gentle on delicate surfaces

Dedicated solutions protect delicate panels from scratches, ensuring flawless results every time.



Compact, versatile, and efficient: the vertical drilling solution for 'just in time' production

Precision and versatility: the drilling and dowel-inserting machine for artisans and efficient production.

The point-to-point drilling and dowel-inserting machine designed for flexibility, perfect for artisans with just in time production or to complete the machining tasks on elements for kitchens, furniture, drawers, obtained from nesting.

Guaranteed response: **Remote Assistance** you can rely on

Remote assistance packages ensure fast technical response times and seamless. Machine Connectivity services to keep your operations running smoothly.

Advanced
1h

Ordinary
4h

Up

Make precision great

The double grippers and panel dimensional measurement system enhances accuracy by detecting panel references and enabling real-time adjustments to machining positions.

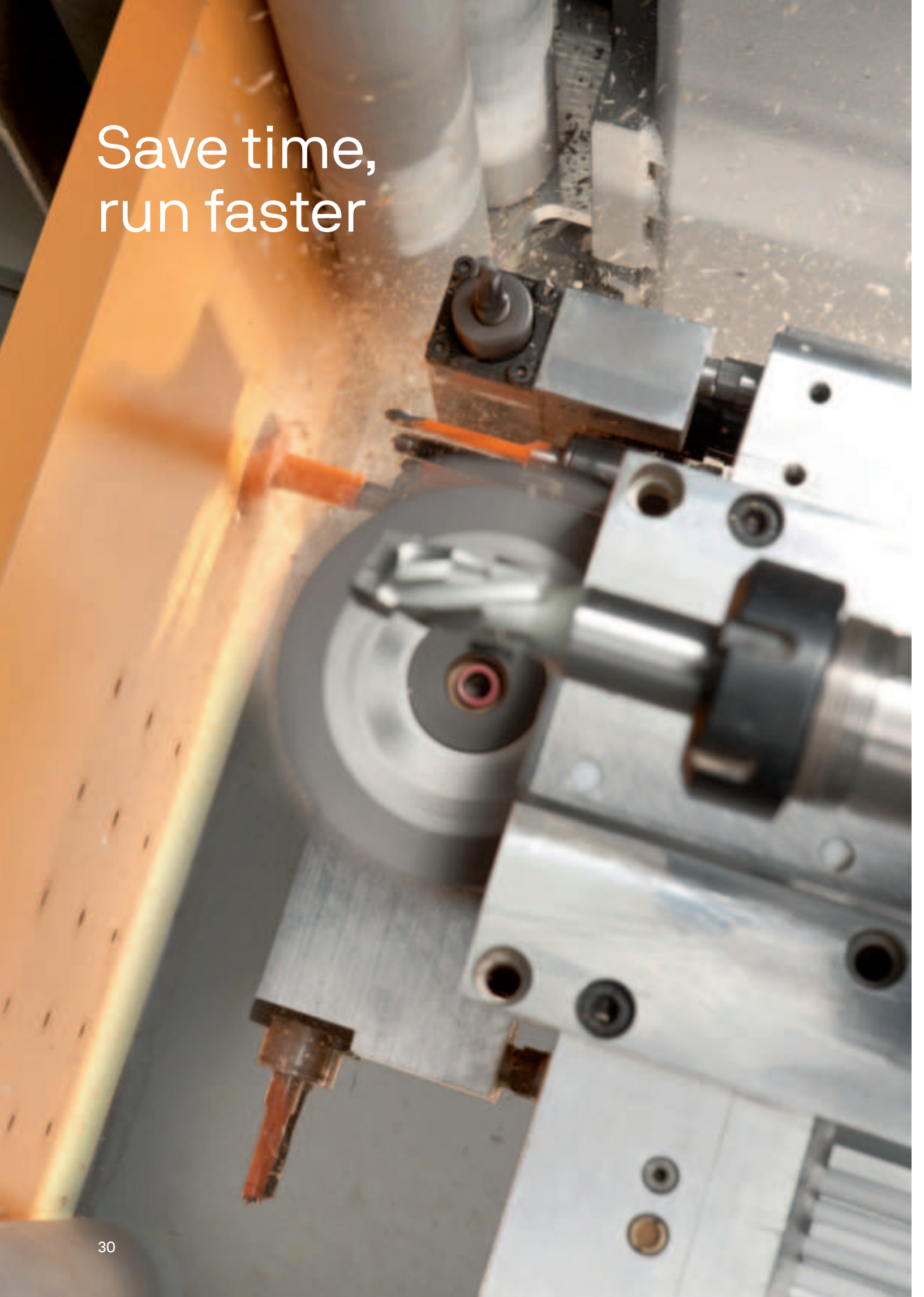
Optimized space

Vertical panel management minimizes space requirements while enhancing operational flexibility compared to traditional horizontal systems.

Ergonomics for greater efficiency

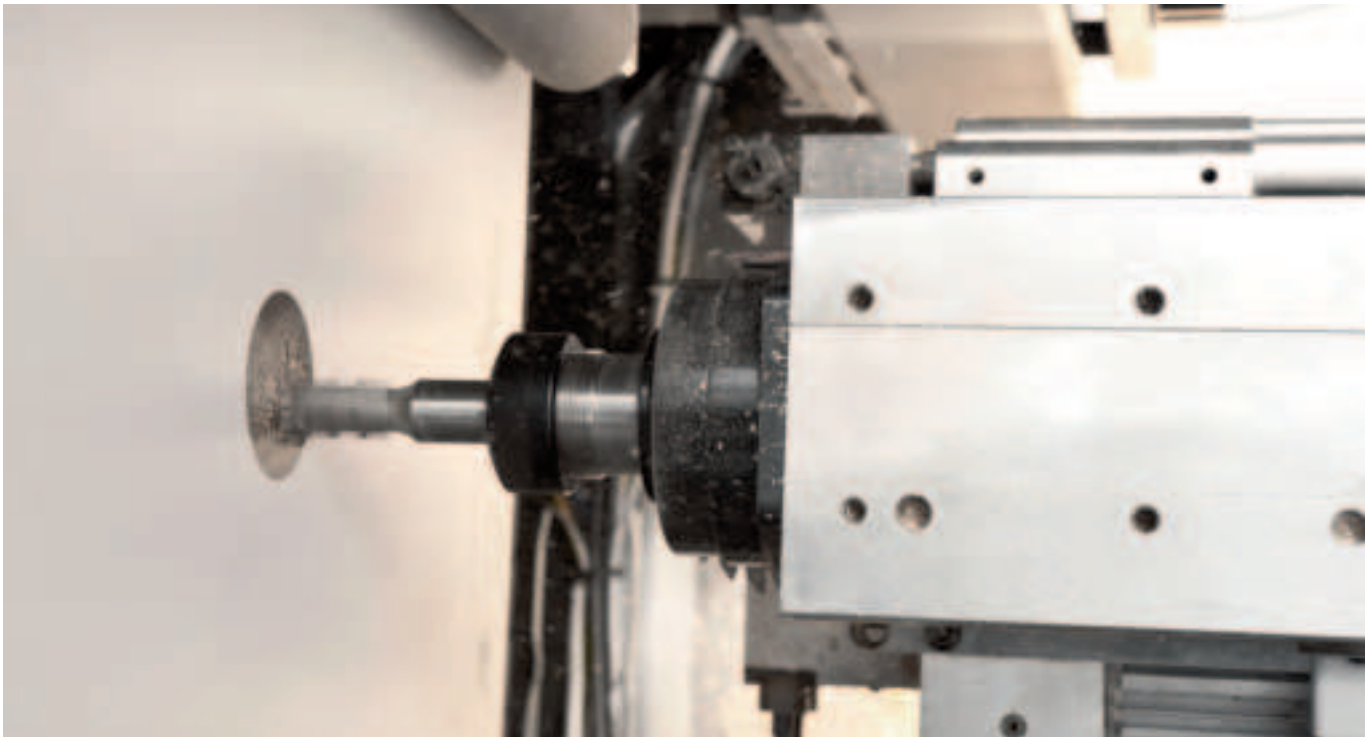
Its ergonomic design minimizes operator effort, improving workflow and enhancing overall production efficiency.

Save time,
run faster





01



02

01. Drilling and Grooving

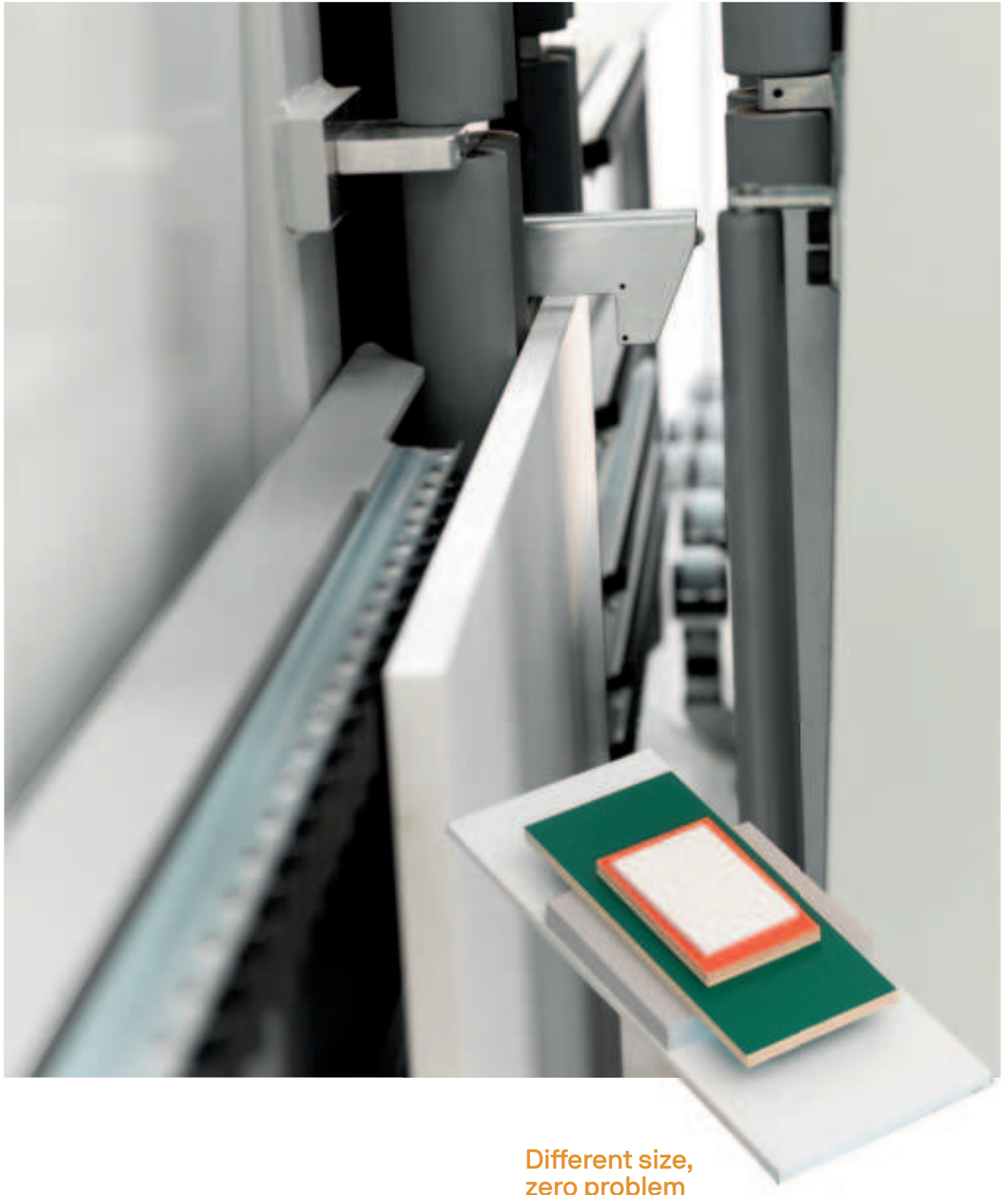
Different configurations of drilling units with independent spindles are available, ensuring versatility to meet a wide range of customer drilling requirements.

02. Routing & aggregates machining

HSD electro spindle with C axis and automatic tool changer enables multiple machining operations in a single cycle, eliminating manual intervention and rework.

Up

Optimized space



Different size,
zero problem



Dowel insertion

Patented system consisting in a glue and dowel insertion aggregate, providing a seamless solution, ideal for high-quality and consistent joinery.

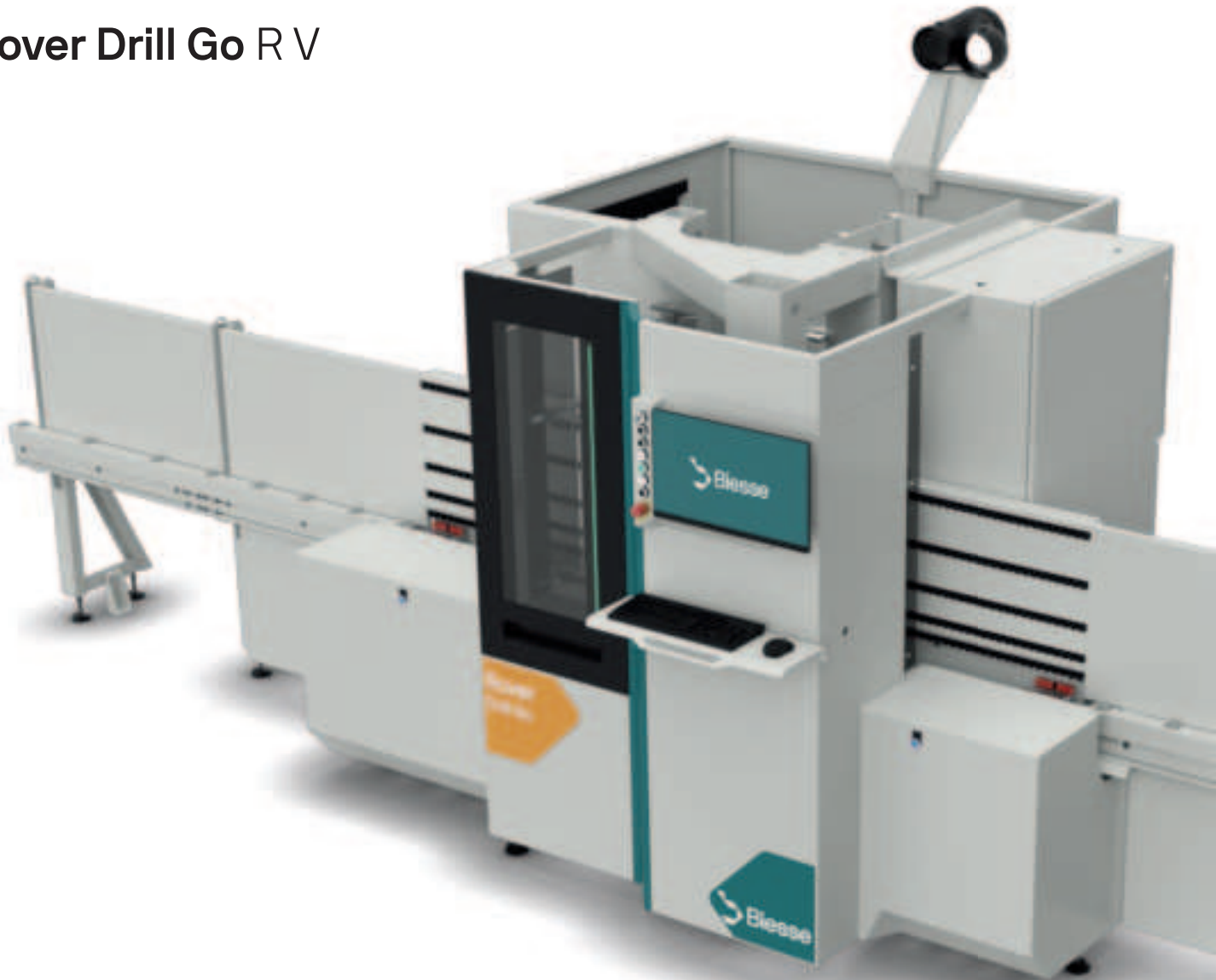


Make precision great

Routing Dowel & Inserting

Rover

Rover Drill Go R V



Save time, run faster

High speeds and rapid acceleration with double grippers, drastically reducing machine cycle times during panel displacement and repositioning.

Soft and gentle on delicate surfaces

Dedicated solutions protect delicate panels from scratches, ensuring flawless results every time.

Enhanced stability and finishing

Double grippers securely hold panels throughout the process, maintaining proper alignment even during complex or heavy machining.

Vertical precision, optimized spaces: the solution for modern craftsmen

Compact and intuitive: the vertical drilling solution for the modern craftsman.

Designed for precision and efficiency, this versatile machine optimizes small workspaces while delivering professional-grade results. Its advanced features and user-friendly design make it the perfect choice for meeting the demands of contemporary craftsmanship with accuracy and ease.

Guaranteed response: Remote Assistance you can rely on

Remote assistance packages ensure fast technical response times and seamless. Machine Connectivity services to keep your operations running smoothly.



Make precision great

The panel dimensional measurement system enhances accuracy by detecting panel references and enabling real-time adjustments to machining positions.

Different sizes, zero problem

Thanks to the double gripper system, the machine effortlessly handles elements of varying sizes without requiring operator intervention. This ensures a seamless transition between tasks, eliminating the need for manual adjustments and boosting overall efficiency.

Optimized space, reduced footprint and ergonomics for greater efficiency

Vertical panel management minimizes space requirements while enhancing operational flexibility compared to traditional horizontal systems. Its ergonomic design minimizes operator effort, improving workflow and enhancing overall production efficiency.

Routing Dowel & Inserting

Stream

Stream Drill Pro RV



Solutions that fit your needs

The wide range of handling systems enables both manual loading and seamless integration into automated processes. The modular design allows for future upgrades and integrations with new handling systems to meet evolving process requirements.

Soft and gentle on delicate surfaces

The panel gripping system by means of horizontal and vertical rubber roller vice avoids the risk of scratching or damaging panels with delicate surfaces.

Continuous flow

The combination of vertical and horizontal clamping, double belt towing, and laser-based panel origin detection ensures a seamless, continuous panel processing flow, eliminating the need for repositioning the panel grip.

Precision meets versatility: the multisided machining system for Batch One and industrial production

A versatile machine designed to process all six sides of panels, delivering high precision, advanced automation, and the capability to handle complex machining tasks, effective for large production series and batch-one manufacturing ensuring an optimized and efficient workflow.

Seamlessly integrable into automated production lines, this system is ideal for meeting the demands and pace of industrial production.

Guaranteed response: Remote Assistance you can rely on

Remote assistance packages ensure fast technical response times and seamless. Machine Connectivity services to keep your operations running smoothly.



Make precision great

The panel dimensional measurement system improves machining precision by accurately detecting panel references and enabling real-time updates to machining positioning.

Different size, zero problems

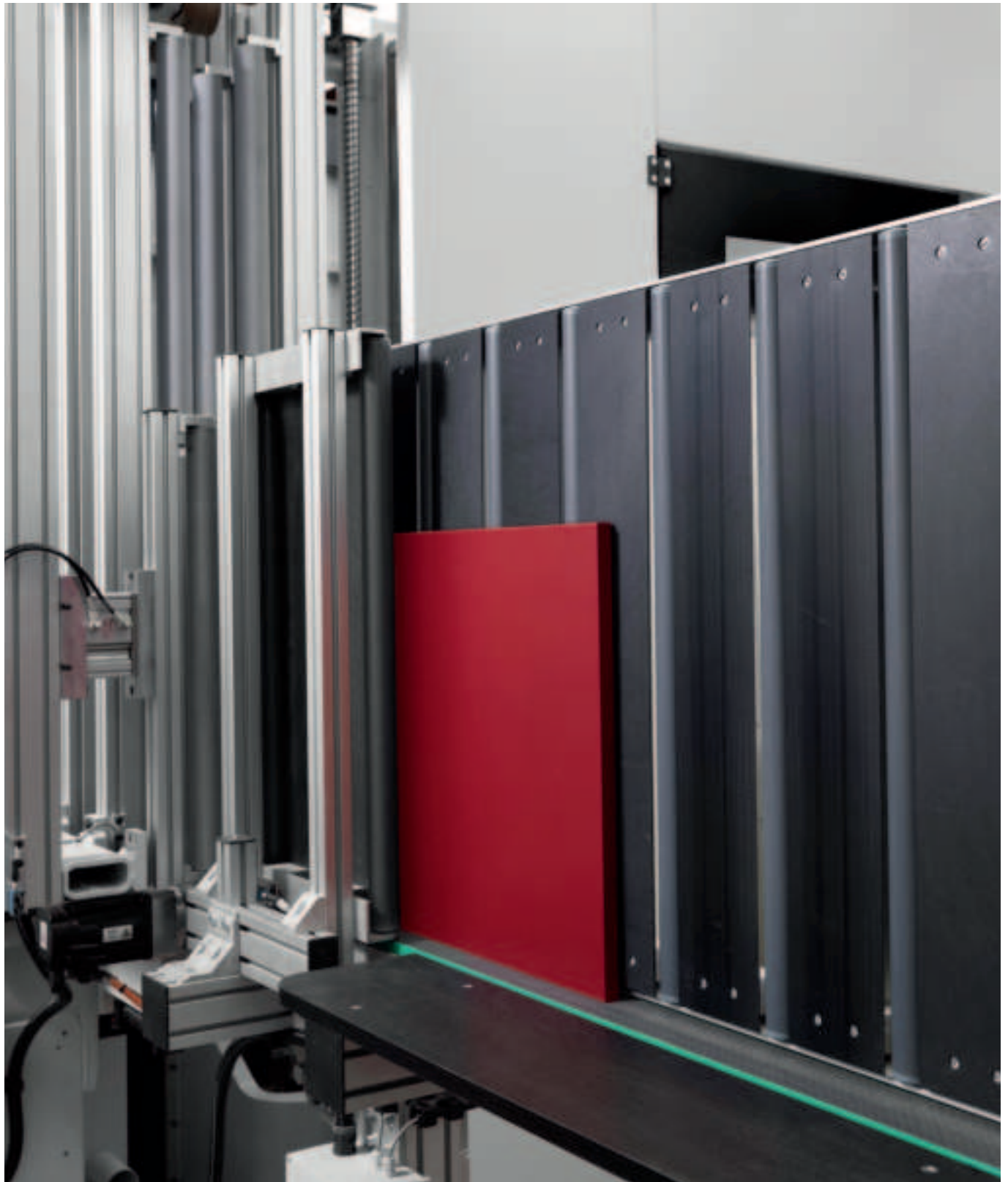
The patented panel handling system effortlessly manages elements of different sizes, removing the need for operator intervention and enabling smooth transitions between tasks without manual adjustments.

Ergonomics for greater efficiency

Its ergonomic design minimizes operator effort, improving workflow and enhancing overall production efficiency.

Flexibility

The availability of multiple tools, which can be used within the same process automatically, effectively increases the operating flexibility of the system.

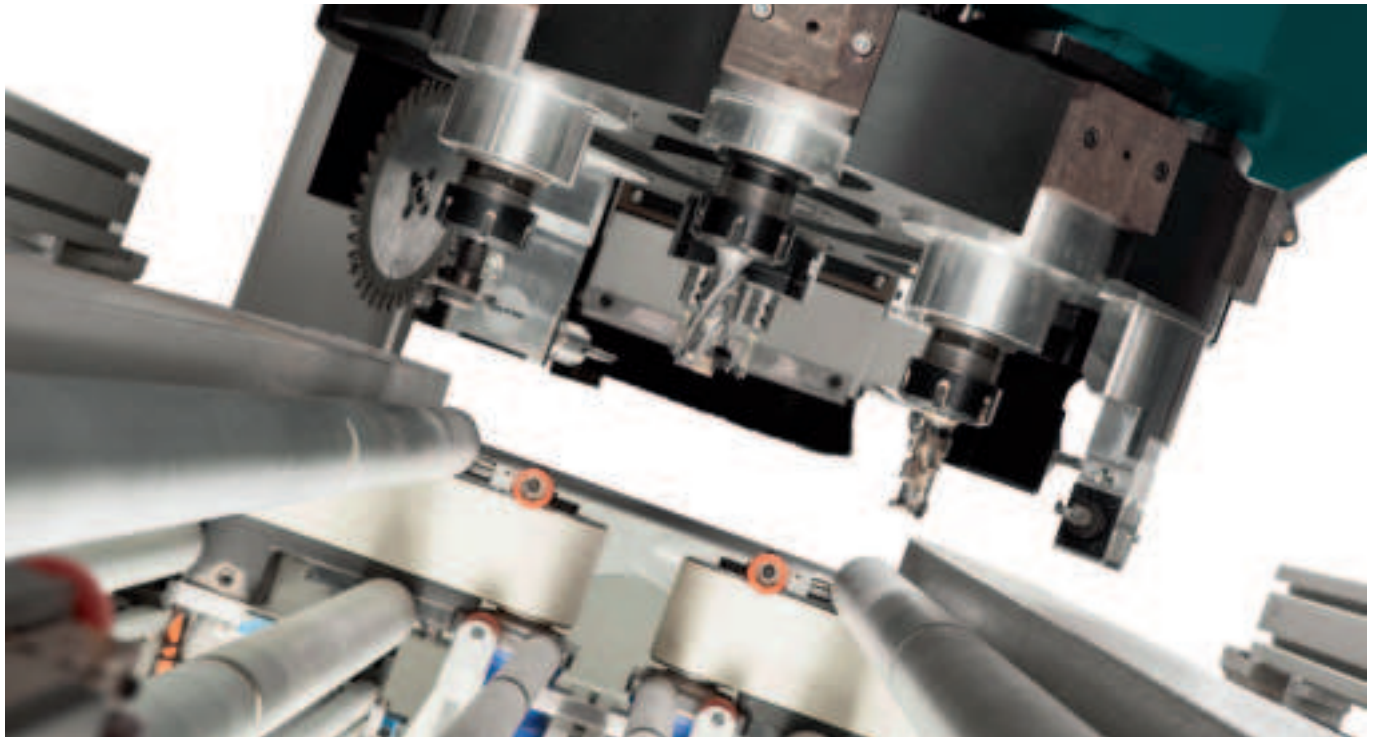


Continuous flow

Soft and gentle on delicate surfaces



01



02

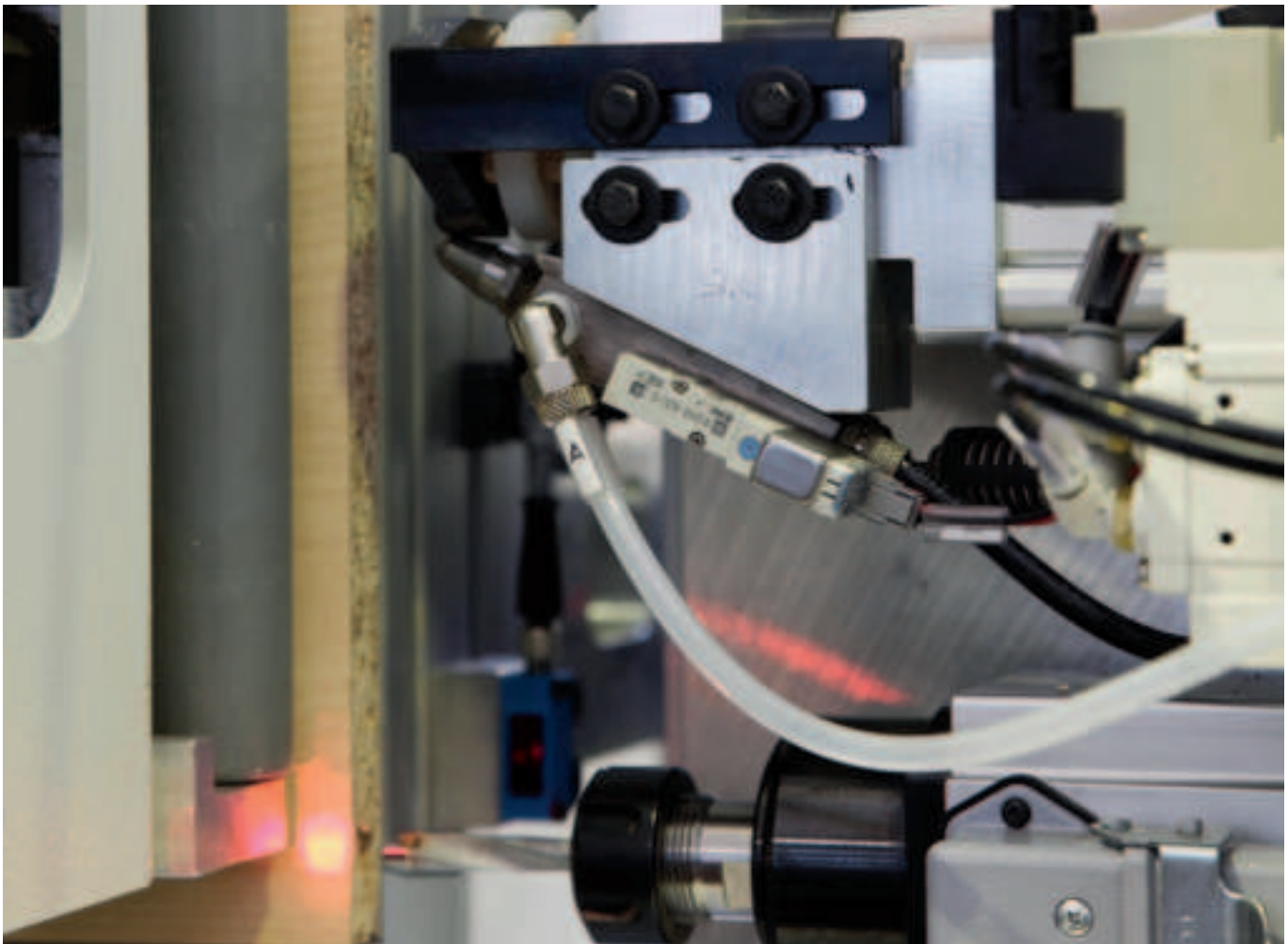
01. Drilling

Wide availability of vertical and horizontal drill bits always available allows drilling for many different functional purposes.

02. Routing & aggregates machining

The HSD electro spindle and aggregates automatic tool changer allow multiple machining operations in a single cycle, eliminating the need for manual intervention and rework.

Solutions that fit your needs



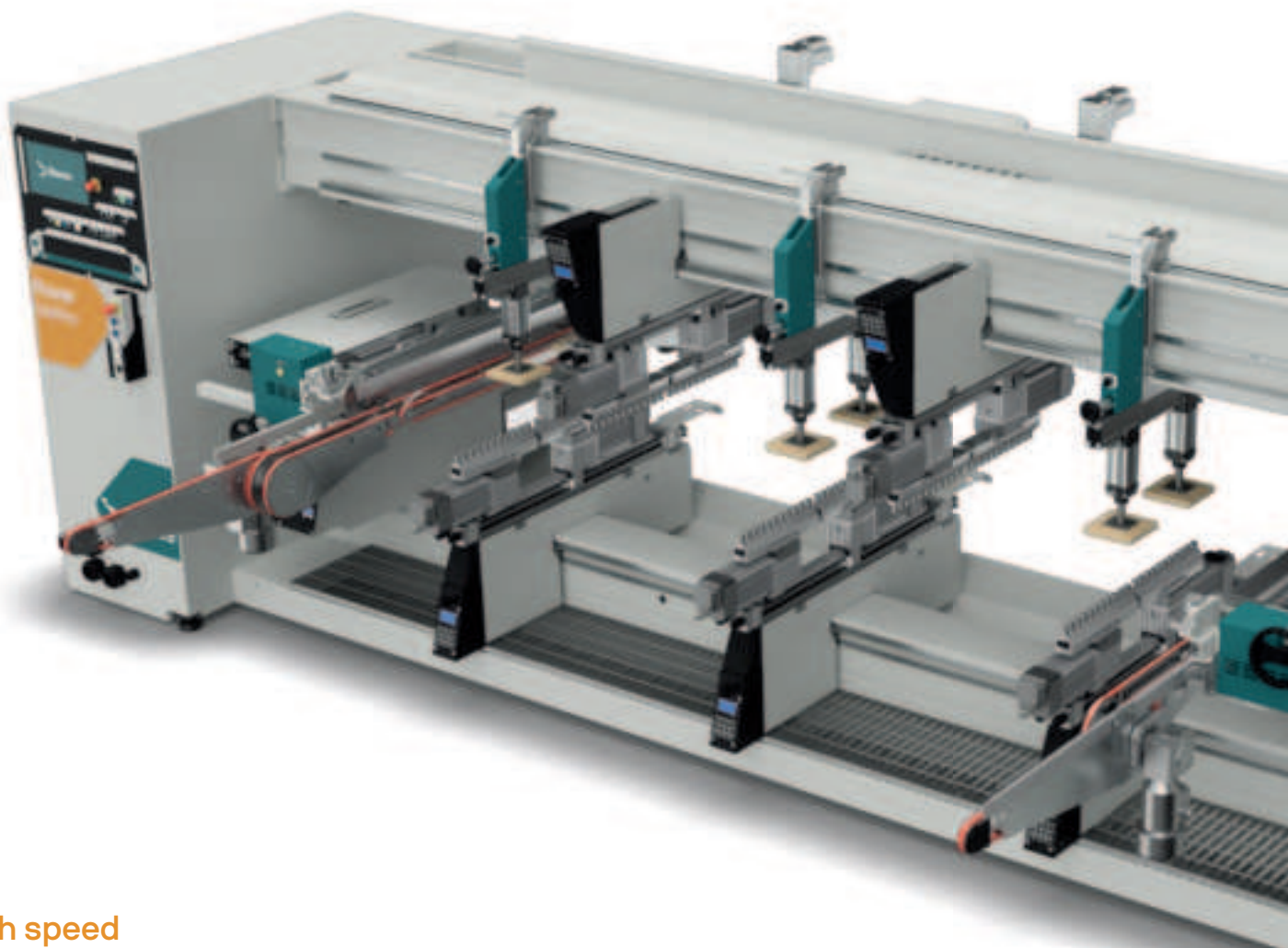
Dowel insertion

Integrated system for automatic glue and dowel insertion, managed directly by the machine to streamline work process.

Routing Dowel & Inserting

Rover

Rover Drill Pro T C



High speed process

Several vertical and horizontal drilling units, a high-grip belt conveyor, retractable reference stops, and optimized synchronized stop-and-hold devices enable the completion of a panel in seconds.

Easy re-tooling

The quick head change system in vertical drilling units minimizes setup time between production batches.

Enhancing processes, boosting efficiency.

A range of solutions tailored to meet specific needs, enhance processes, and improve machine efficiency.

High drilling capability

Vertical and horizontal drilling units allow for the configuration of the required number of drills, optimizing the process to its fullest potential.

High-Performance drilling solutions

High-capacity drilling solution with multi-spindle heads and seamless integration into production lines.

It delivers precision, efficiency, and smart manufacturing for high-volume operations.

Guaranteed response: Remote Assistance you can rely on

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Customized drilling heads

Customized drilling heads can be the solution to accommodate non-standard or new drilling requirements.

Head and Tail machining

Horizontal drilling aggregates fulfill the requirement when all six sides of the panel need to be processed.

Standalone, Line-Oriented

The automatic panel work process including positioning and unloading via transfer belts make the machine easily integrable into boring lines with automatic loading systems or squaring-edge banding lines.

High speed process





Easy re-tooling

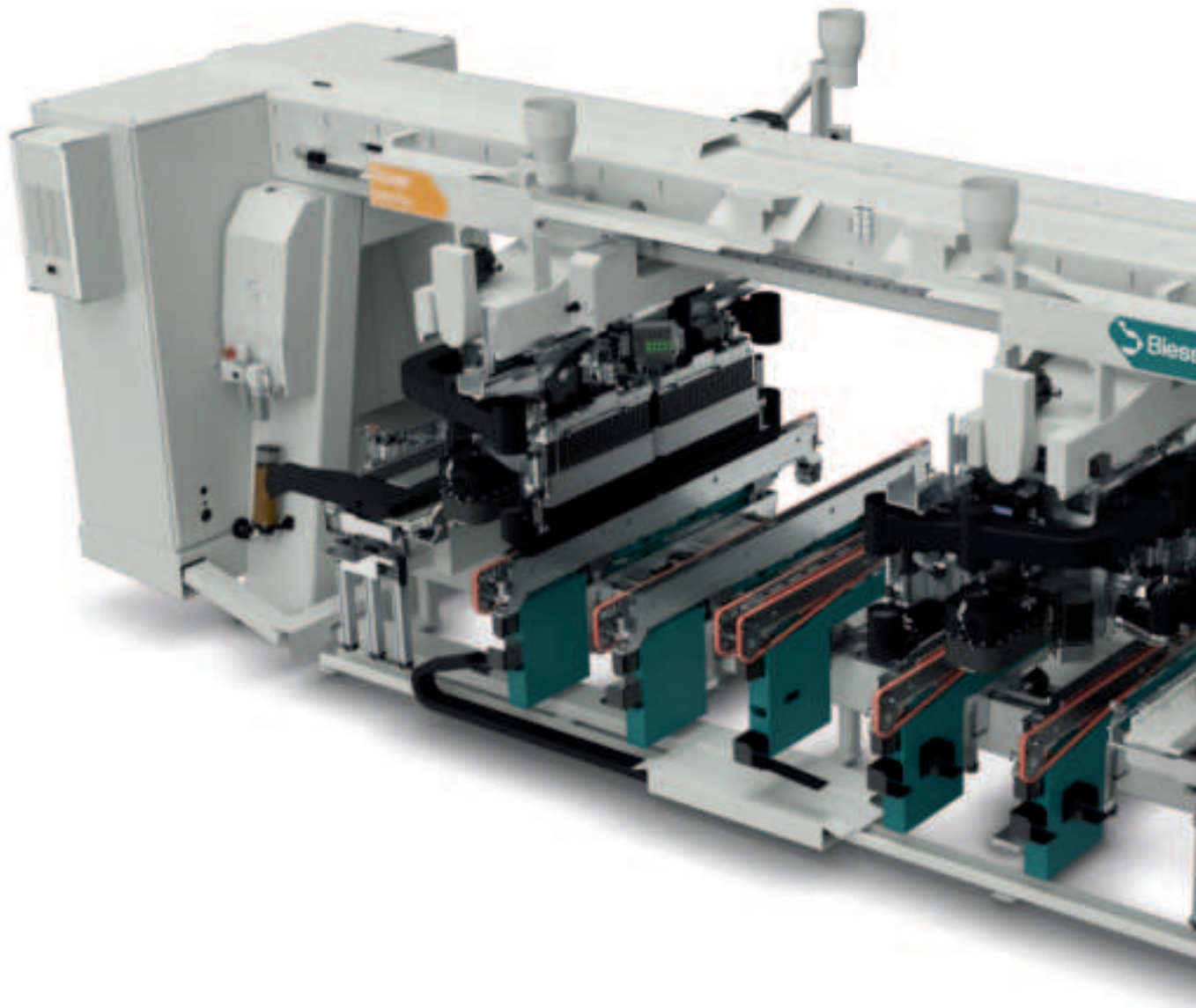
Drilling

High-productivity panel drilling system capable of processing up to six faces in a single setup, ensuring maximum efficiency and precision. Designed for high-batch production.

Routing Dowel & Inserting

Rover

Rover Drill Pro T C M



Fast Change Setup

The four vertical BH38 drilling units and four horizontal 18 spindles drilling units, each with independent spindles, enable the machining of all five panel sides, achieving high levels of productivity and flexibility.

High drilling flexibility

The four vertical BH38 drilling units and four horizontal 18 spindles drilling units, each with independent spindles, enable the machining of all five panel sides, achieving high levels of productivity and flexibility.

Single or double panel machining

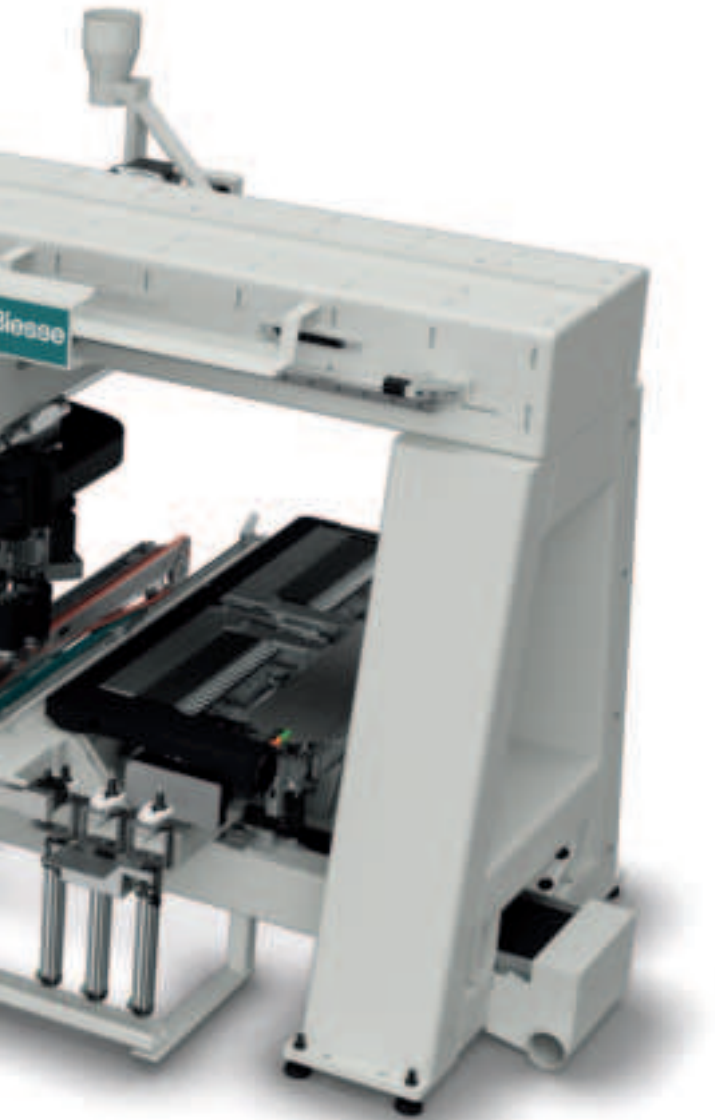
The working table, divided into two working areas along the Y axis, enables the simultaneous processing of two identical or mirrored panels, or a single panel with a greater Y dimension, significantly boosting productivity and efficiency.

Versatility and production efficiency

A versatile work center that seamlessly combines high production performance with the flexibility to process medium-sized batches in sequence, ensuring efficiency and adaptability for varied production needs.

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Drill bits magazine

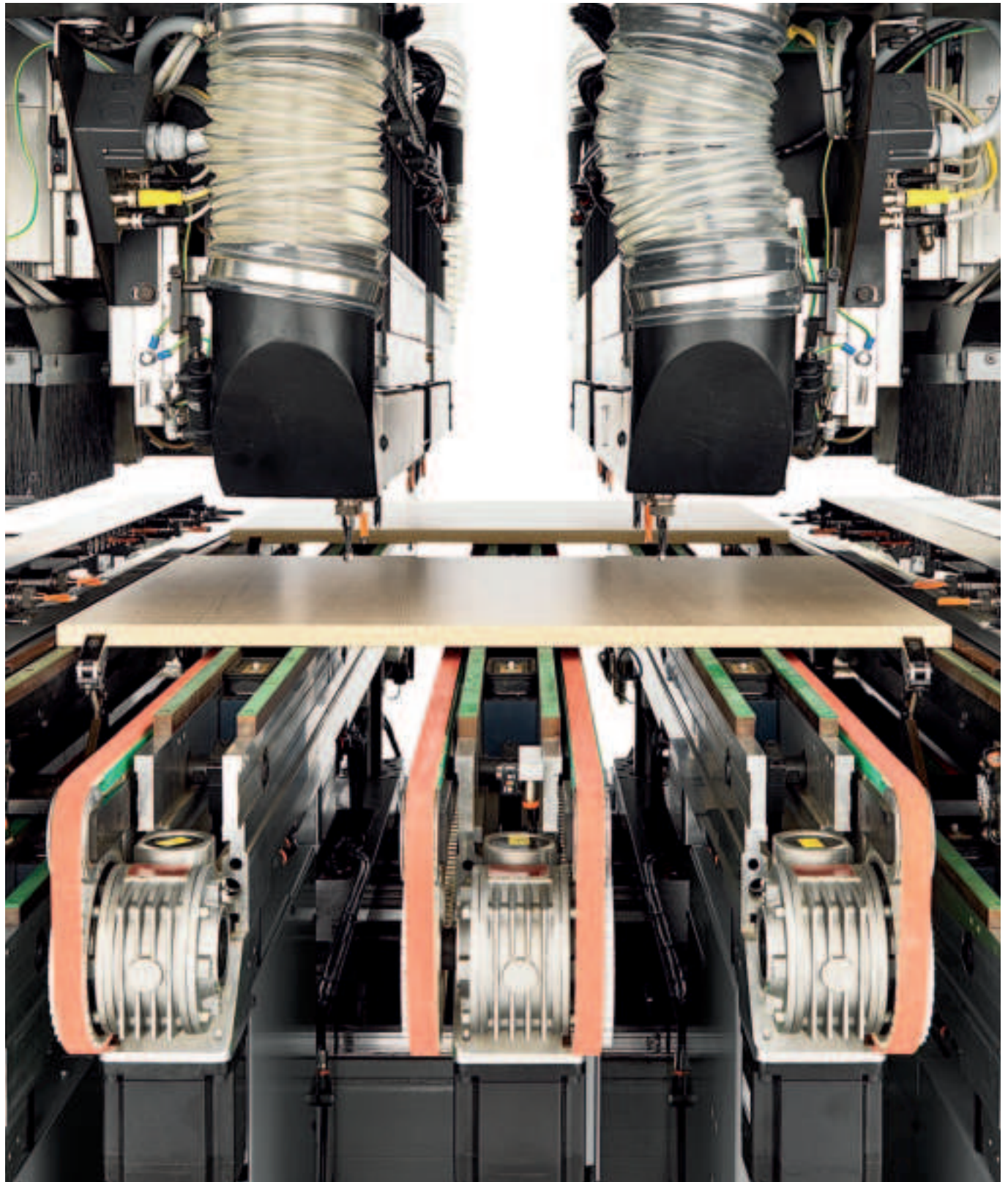
Automatic drill bit swaps on the vertical spindles ensure seamless and error-free setup processes.

RD Module

To complete the process and produce a ready-to-assemble element, the RD module enables the automated insertion of glue and dowels. The RD module consists of an additional machine structure that receives the panel to be pushed by the drilling machine.

Standalone, Line-Oriented

The motorized belt transfers, positioned at the machine's entrance and exit, allow for manual adjustment of the load rate, while also making the machine suitable for potential integration into an automated production line.



Fast Change Setup

High drilling flexibility





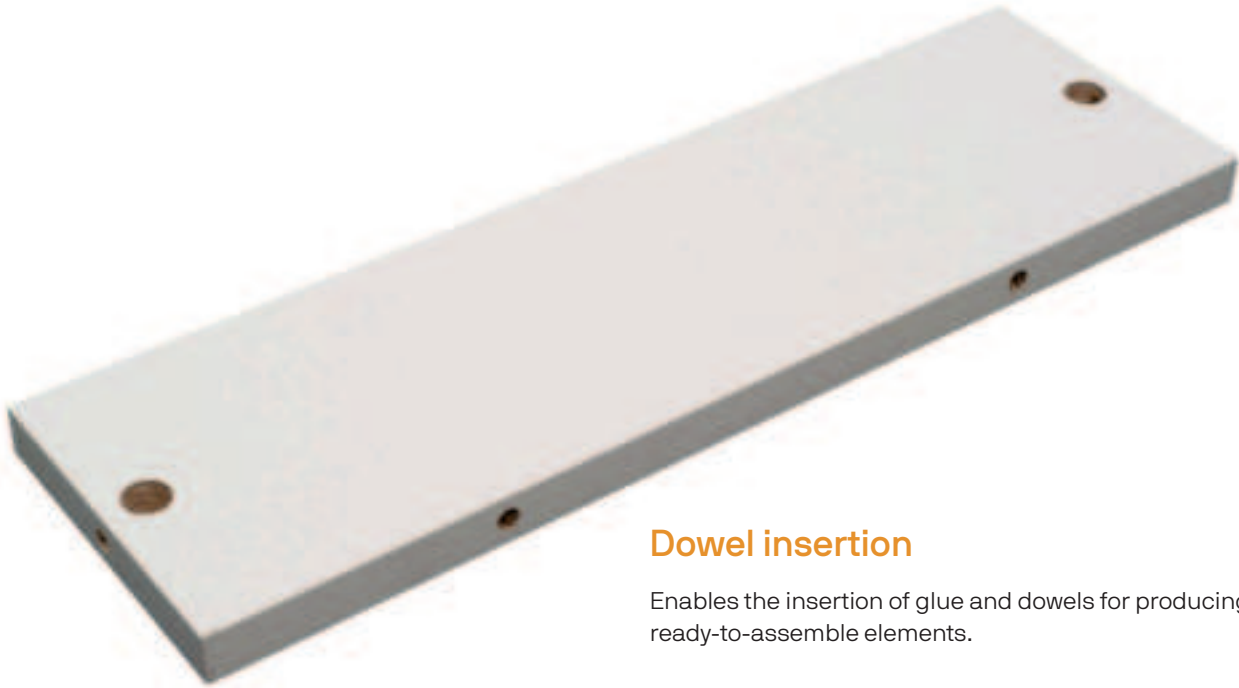
Drilling

Flexible 5-face drilling for high-productivity panel processing, ideal for medium batch production.



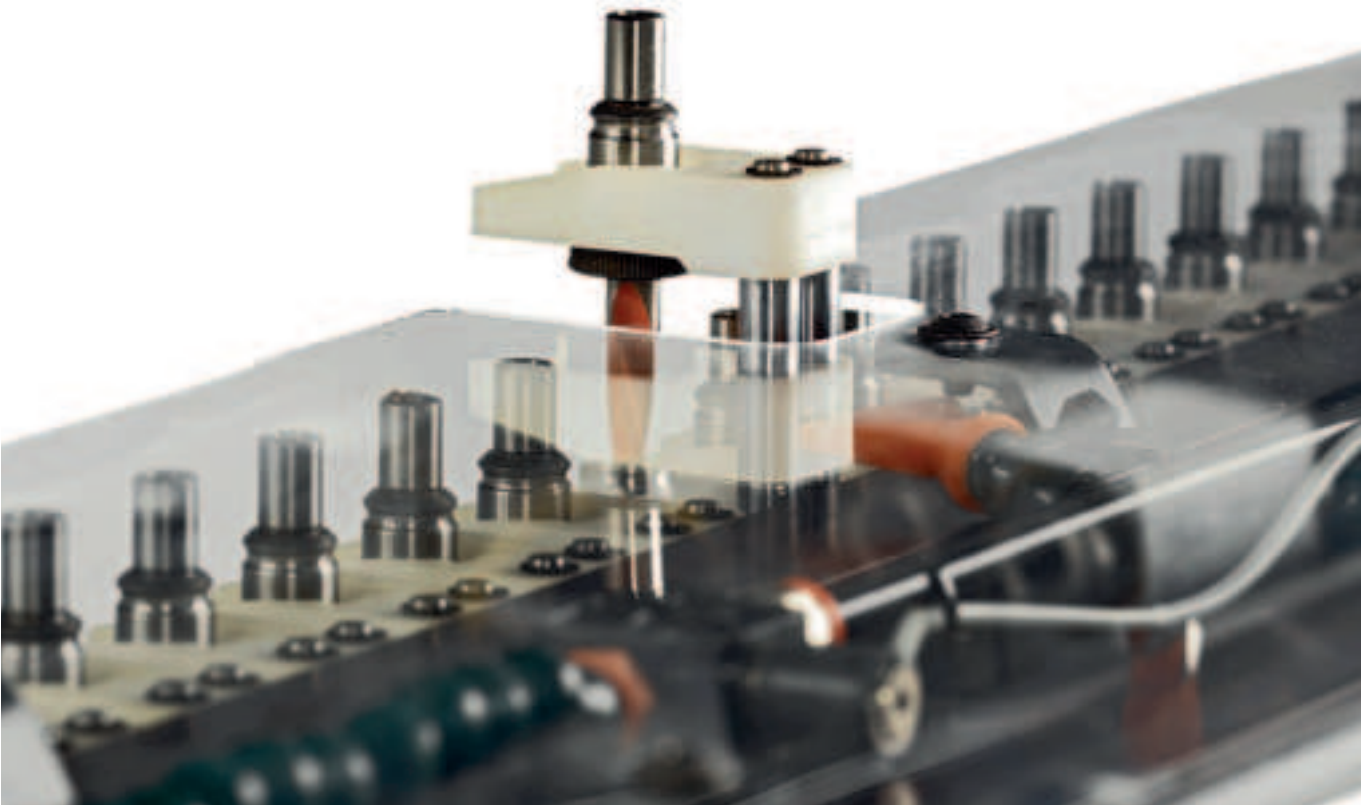
Routing and grooving

Supports additional milling and grooving operations for enhanced versatility.



Dowel insertion

Enables the insertion of glue and dowels for producing ready-to-assemble elements.



Drill bits magazine

Automatic drill bit swaps on the vertical spindles ensure seamless and error-free setup processes.

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