

CENTATEQ P-310/E-310

Scalable performance.

CNC processing from 5-axis to edge.



Building living spaces.

From furniture to homes: The future is built with wood.

Together, HOMAG, WEINMANN, SYSTEM TM and KALLESOE provide comprehensive production solutions for manufacturers of optimized timber, engineered wood, timber construction, interior fittings, furniture and more. With over 500 years of combined experience in machinery engineering, automation systems, and software technology, our focus is on building strong partnerships that enhance your productivity, precision, and profitability.

This is how we are Building living spaces. Together, with you.

HOMAG – YOUR SOLUTION



High-precision CNC solutions.

Dimensional accuracy, repeat accuracy, fits – precision is the top priority in CNC machining. That's why we offer superior technology and individual equipment for the high-precision production of furniture, interior fittings and construction elements – with three, four or five axes.

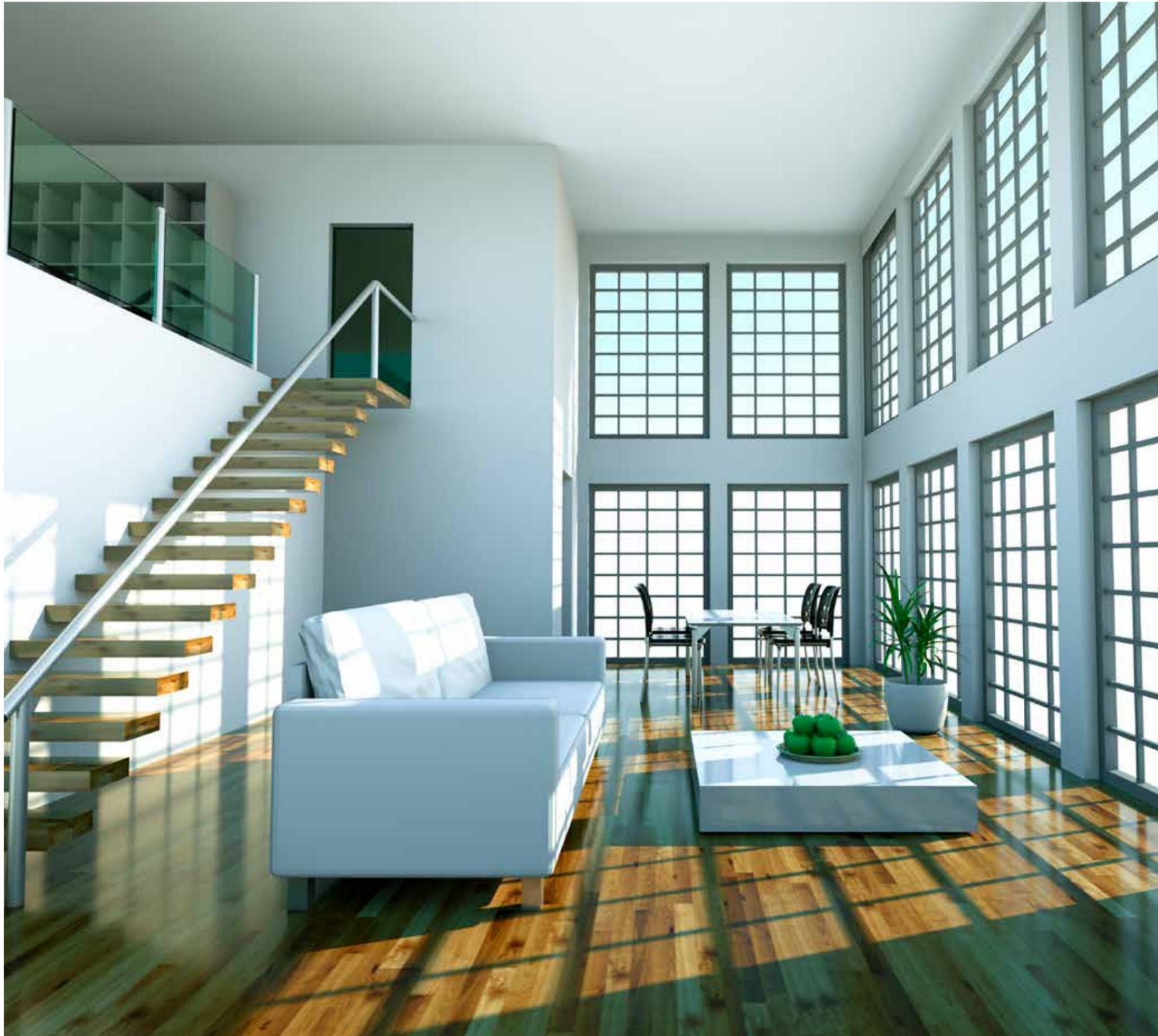
To ensure that your individual furniture transforms rooms into living spaces in the future, too.

Building living spaces.

Building precision.

A millimeter off is a world apart.





Be on the safe side with HOMAG

You should not experiment with investment in a new machine or plant. Rely on the competence, experience and reliability of a strong partner – rely on HOMAG.

YOUR SOLUTION

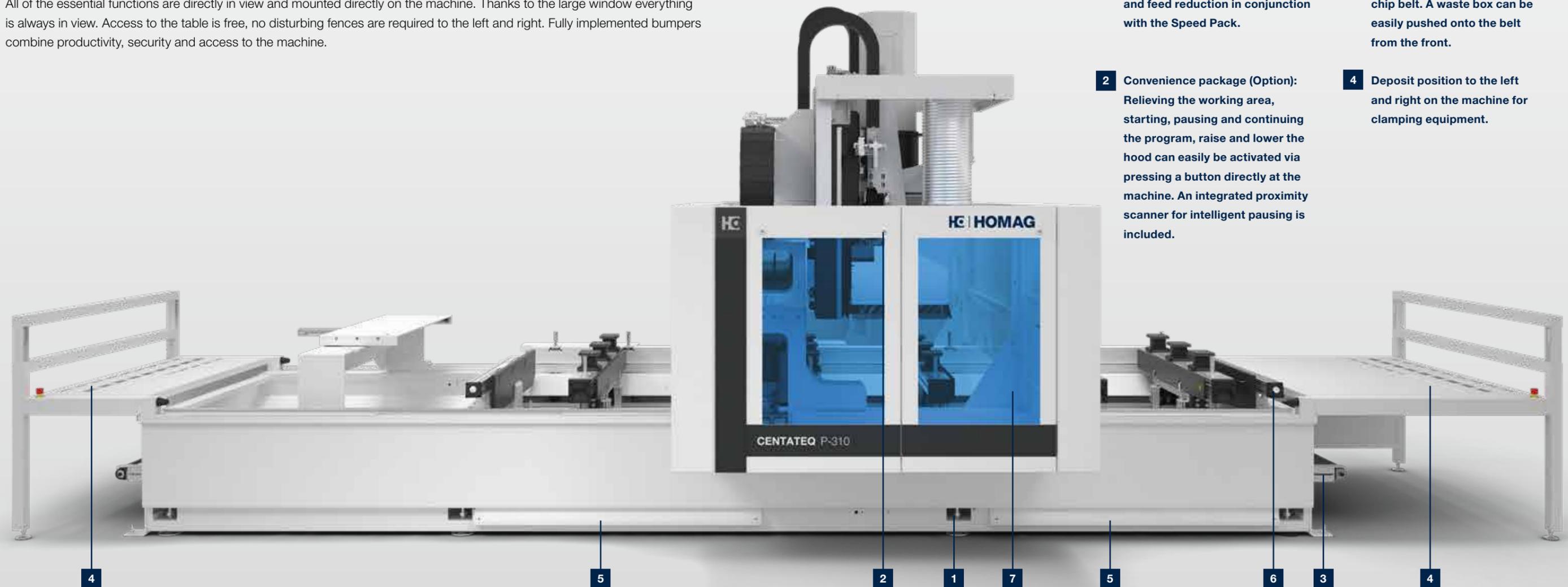
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Operation made easy

WORKING ON A CNC MACHINE HAS NEVER BEEN SO EASY AND CONVENIENT:

All of the essential functions are directly in view and mounted directly on the machine. Thanks to the large window everything is always in view. Access to the table is free, no disturbing fences are required to the left and right. Fully implemented bumpers combine productivity, security and access to the machine.



1 safeScan (Option): Scanner for contact-free protection of the positioning of the automatic table and feed reduction in conjunction with the Speed Pack.

3 Chip conveyor belt (Option): Simple disposal of the offcuts and chips using the integrated chip belt. A waste box can be easily pushed onto the belt from the front.

2 Convenience package (Option): Relieving the working area, starting, pausing and continuing the program, raise and lower the hood can easily be activated via pressing a button directly at the machine. An integrated proximity scanner for intelligent pausing is included.

4 Deposit position to the left and right on the machine for clamping equipment.



5 Switch bar instead of foot switch – no searching and moving the foot switch – stops, output stroke rails and vacuum clamping can be activated easily.



6 Button for program start directly on the left and right stop profile of the machine table. The clamping status is immediately in view thanks to the multi-colored light display.



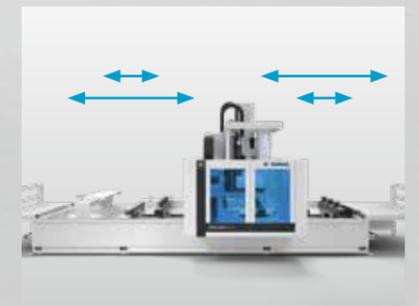
7 Easy access – drill changes, service, refilling adhesive and edge changes can be carried out easily from the front side of the machine.



Smart support for support and maintenance using the service pad and display of machine status on smart devices.



Second operating terminal (option) for optimum shuttle operation without unnecessary walking – ideal for machines with a large work field. Program selection and assignment of the machine is possible on both sides.



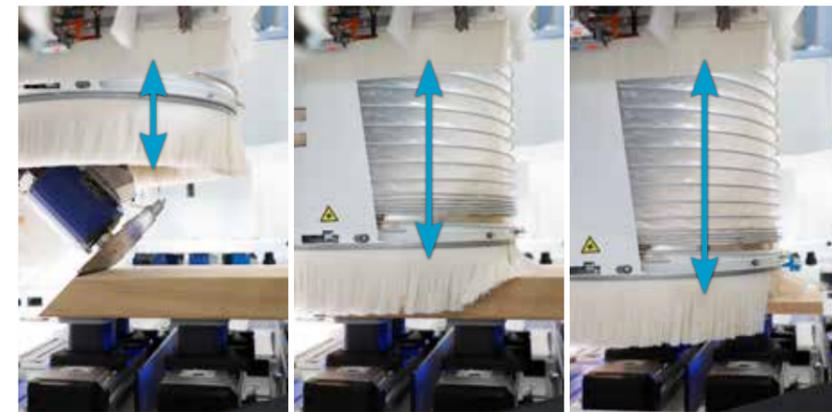
Dynamic alternating operation without fixed field subdivision. This means that even in the case of long parts on one side of the machine a short part can still be placed on the other side.

Energy efficiency

Effective dust extraction at low extracted volume thanks to optimized capture and removal of chips. Reduced power consumption thanks to stand-by operation of all power components via pushbutton or automatically according to time interval. Reduced compressed air consumption due to optimized pneumatic components.

Suction hood control

Central connection for dust extraction. By moving the slide only the active processing unit is suctioned at a time.



Always in the right position

Effective dust extraction at low extracted volume thanks to optimized capture and removal of chips. The hood is stepless adjustable by motor and automatically adapts to the workpiece thickness.

Low-maintenance and controllable vacuum technology

Low-maintenance vacuum pumps ensure consistently high efficiency. By automatically (or manually) switching the pumps on and off or rotation speed control, vacuum generation can be adapted to demand.



ecoPlus – energy saving function

- Simple activation of the stand-by mode
- Vacuum pump is switched off (savings of up to 12%)
- Reduction of compressed air (savings of up to 6%)

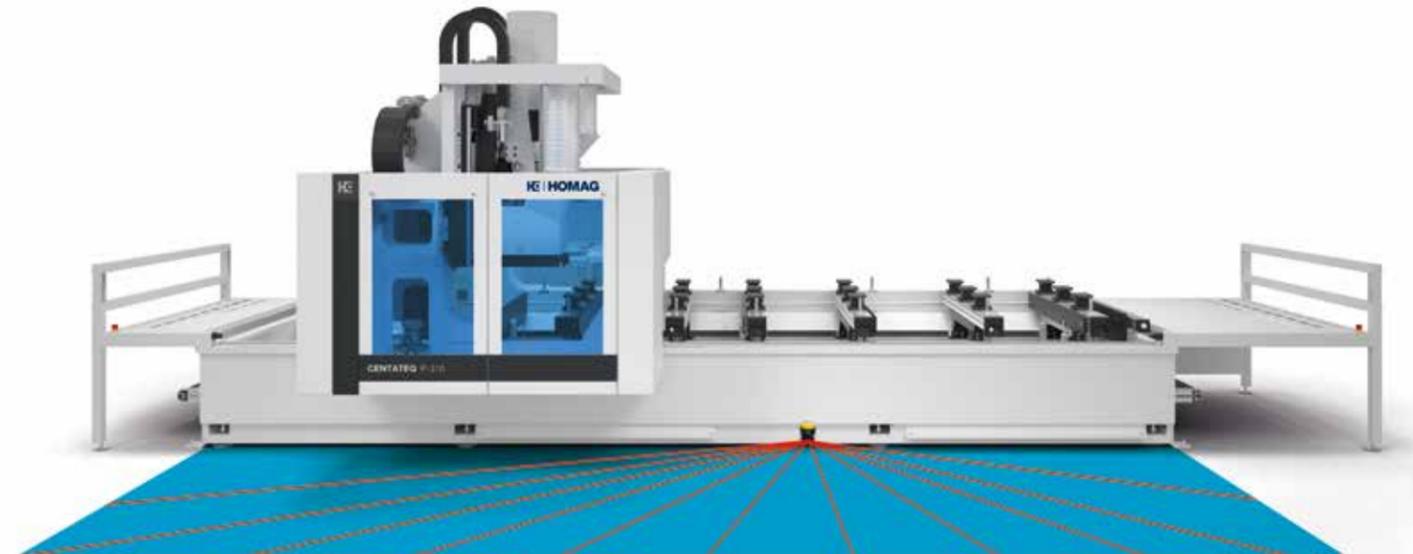
Option: Convenience package

Machine-related handling taken literally. Program start, pausing, relieving the working area and lifting the dust extraction hood can be directly effected by buttons at the gantry housing. The additional proximity scanner stops a program before it gets to bumper contact. Via keystroke, the program is continued at the same position.



Option: safeScan

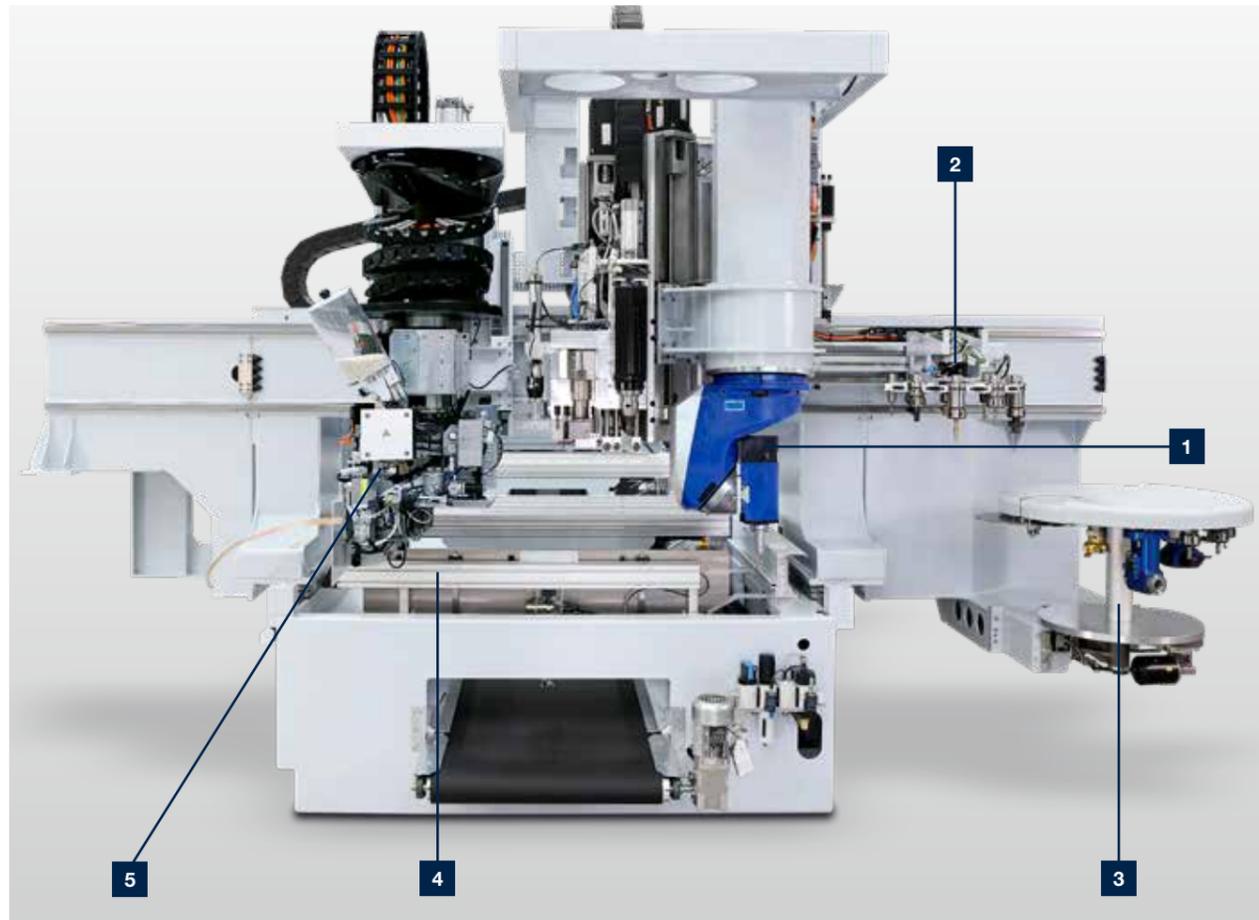
Scanner for contact-free protection of the positioning of the automatic table and feed reduction in conjunction with the Speed Pack.



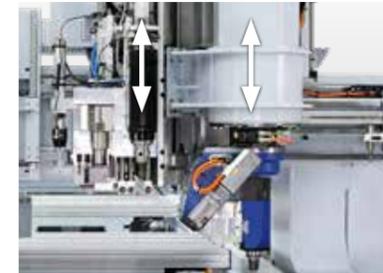
Quality and innovation down to the last detail

Innovative solutions for every task. Superior technology from the start. Every customer benefits from HOMAG system competence. The sum of decades of experience in machine and plant engineering goes into our machining centers.

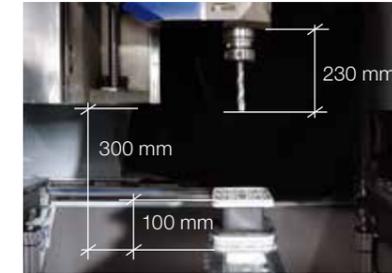
Identical system components, uniform control technology and ergonomic operation ensure more productivity. The latest technologies for the variable high-quality workpiece shapes.



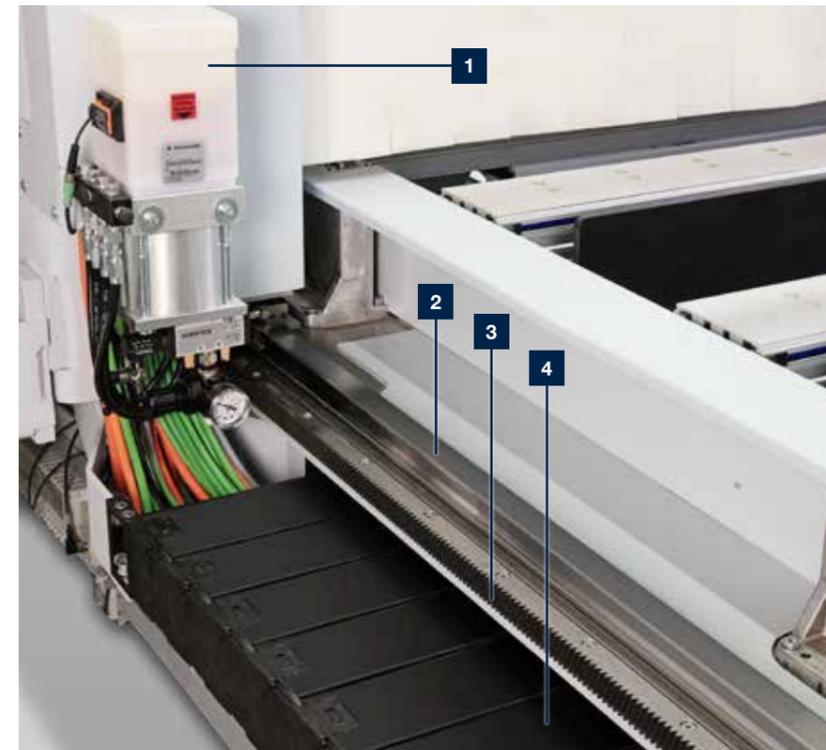
- 1** Powerful 4- and 5-axis routing spindles
- 2** Tool changer traveling with the spindle for tool change during drilling
- 3** Tool change systems traveling for high capacity and fast access
- 4** Console table with high-precision linear guides and robust insertion aids
- 5** powerEdge gluing unit with pneumatic outward stroke (CENTATEQ E-310)



Two separate Z axes for drilling head and working spindle permit rapid alternating drilling head and working spindle application. A drive unit moves only one unit over the full axis length.



Processing height 300 mm from the upper edge of the console, even with the use of units or long tools.



- 1** Automatic central lubrication of all main axes
- 2** Covered linear guide with closed guide carriage
- 3** Rack and pinion drive systems in X and Y
- 4** Closed energy chains to protect cables and hoses



Central switch cabinet with height-adjustable powerTouch operator terminal, UPS to protect against data loss, Backup Manager for data backup and network connection. Light on the switch cabinet for status display.



Mobile operator terminal (optional) with 24" full HD multitouch display can be moved freely. To the left or right of the machine, or for the run-in directly in front of the machine – the terminal is always at the right place.



UPS (uninterruptible power supply)
Protects the computer against damage in case of mains interruption



Air-conditioning (optional)
Air-conditioned cabinet

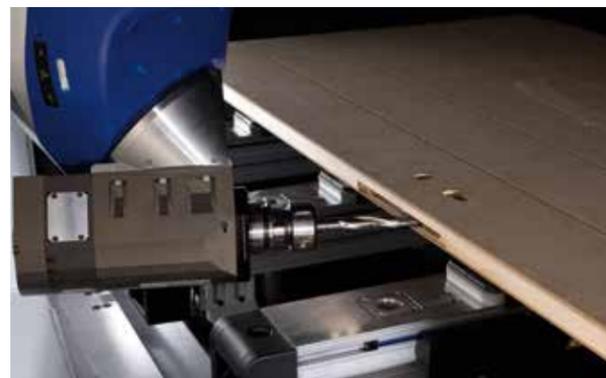
As individual as your needs

When you decide on a HOMAG machine, you receive a powerful processing center for a wide range of tasks. Each machine is a complete system that guarantees maximum performance and efficiency in individual production tasks.

DRILLING & ROUTING



High-speed drilling technology with groove saw



Lock case routing



Trim a chamfer on a table plate



Routing a staircase handrail



Angular cutting of a glass rabbit corner



Holes for piling at a tight angle

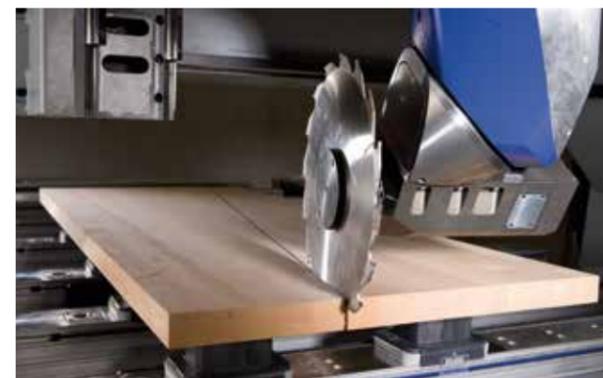
SAWING & CONNECTING



Precise and tear-free miter cuts



Routing a burr connection for jamb/rail designs



Separating cuts up to 110 mm in height

EDGE BANDING



easyEdge gluing unit for rational gluing on shaped parts



360° edge gluing with the powerEdge Pro Duo edge banding unit



Perfect edge finish through traced combination flush routing/scraping unit

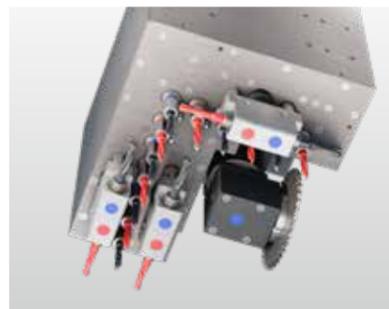
HOMAG drilling technology: The best of the best

High-speed drilling technology, clamping of the spindle and quick-change system for tools. Precise drilling, fast cycles, maintenance-free and durable construction.

Additional optional attachments expand the machine's range of applications.

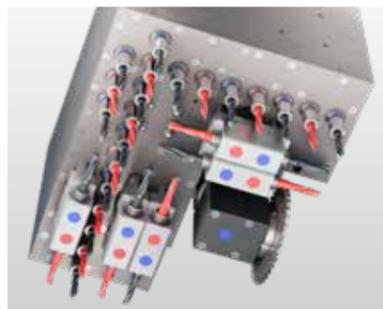


- 1 Measuring device to identify the relevant actual dimensions in X, Y, Z with automatic offset correction in the processing program.
- 2 Additional routing spindle



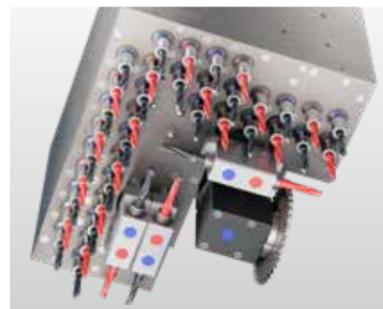
Drilling gear V12/H4X2Y

- 18 drilling spindles [High-Speed 7500]
- 12 vertical drilling spindles
- 4 horizontal drilling spindles in X
- 2 horizontal drilling spindles in Y
- Grooving saw Ø 125 mm (0° / 90°)



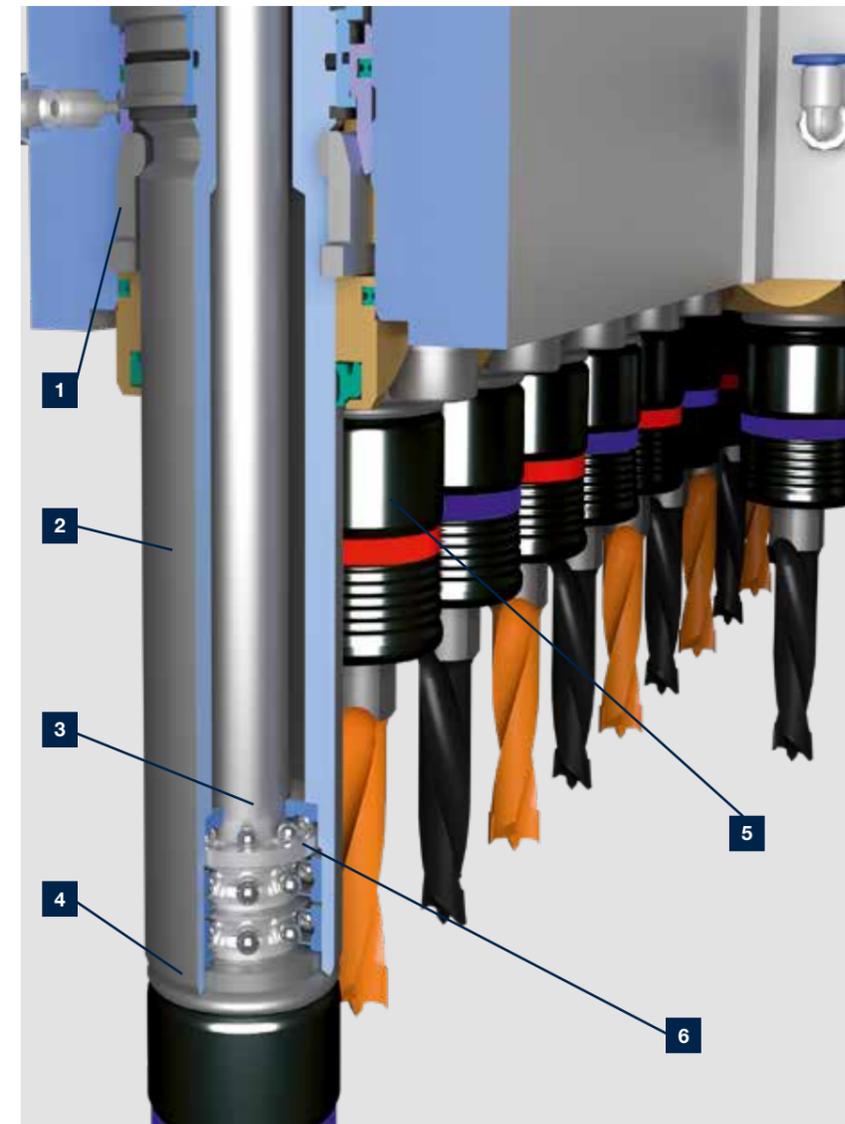
Drilling gear V21/H6X4Y

- 31 drilling spindles [High-Speed 7500]
- 21 vertical drilling spindles
- 6 horizontal drilling spindles in X
- 4 horizontal drilling spindles in Y
- Grooving saw Ø 125 mm (0° / 90°)



Drilling gear V36/H4X2Y

- 42 drilling spindles [High-Speed 7500]
- 36 vertical drilling spindles
- 4 horizontal drilling spindles in X
- 2 horizontal drilling spindles in Y
- Grooving saw Ø 125 mm (0° / 90°)



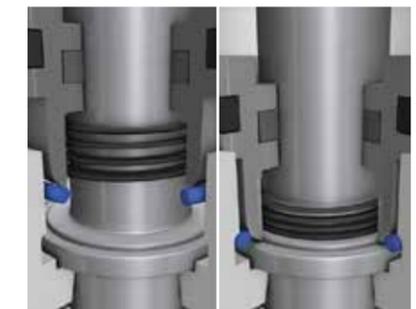
- 1 Spindle lock for accurate drilling depth
- 2 Double-acting cylinder: Forward and return stroke of the spindle with pneumatics
- 3 Large diameter of the sleeve and short and constant distance of the drill bit to the bearing for high lateral stability and high precision
- 4 Vertical sleeve: The vertical drill sleeve is installed, the drilling spindle is housed in the sleeve
- 5 Quick-change system for toolfree drill change
Alternative: Weldon change system
- 6 Separate axial bearing to absorb the direct drilling forces



Weldon change system for a drill change with tools



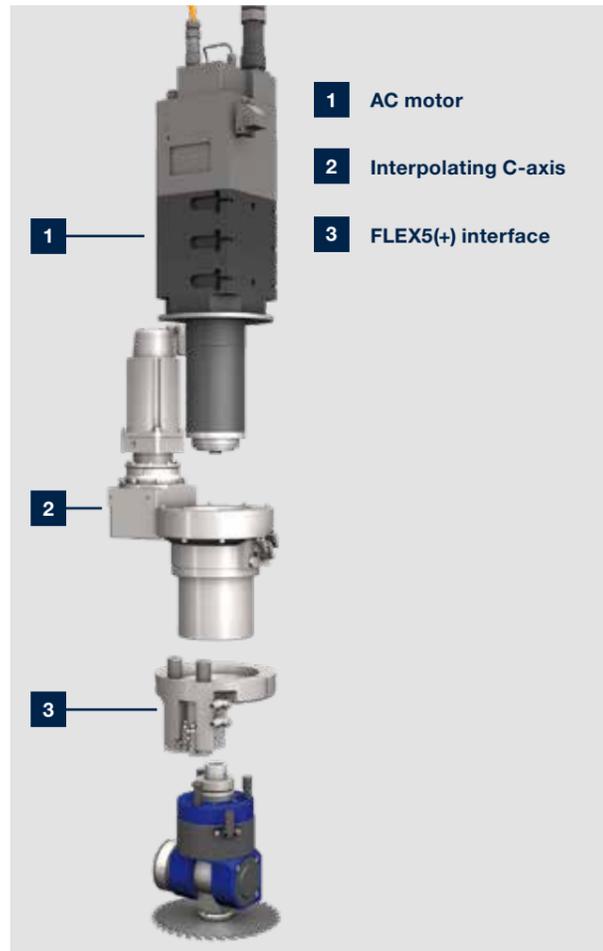
Quick-change system for a drill change without tools to reduce setup times.



Automatic spindle lock — system for a drilling depth that is always accurate for numerous different materials. With speeds from 1500–7500 rpm for high feed speeds or short drill cycles.

Main spindle technology

We are setting standards with our main spindle technology, increasing the performance and flexibility of our machines. Our highlights are the vibration sensors, which avoid damage to the routing spindles, and the 5-axis technology. Select the spindle suitable for your current and future product range.



4-axis routing spindle with units interfaces, which open up almost unlimited production opportunities.



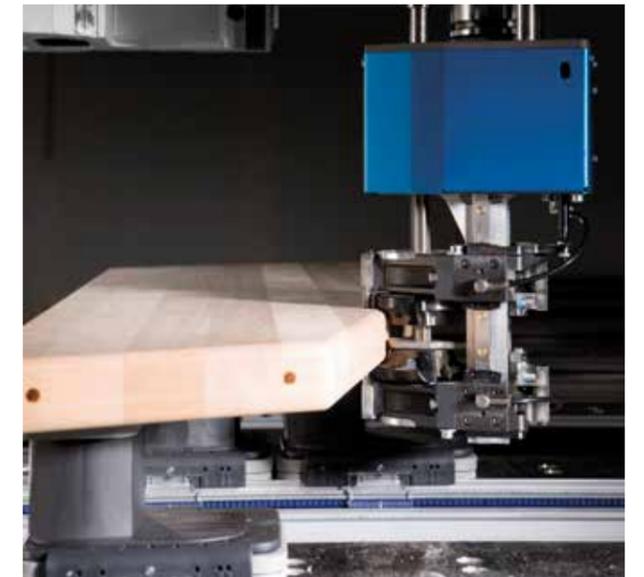
Liquid cooling and spindle sensor – liquid-cooled routing spindles with hybrid storage offer a long service life. An additional vibration sensor detects tool unbalances and protects the spindle against overloading, due to high feed speeds for example.



Sawing, routing, drilling at any angle – FLEX5+ unit with automatic angle adjustment and automatic tool change. A unique unit for 4-axis spindles, which covers over 90% of 5-axis applications.



5-axis routing spindle DRIVE5CS/C+ with 10 kW of power (optionally 12 or 15 kW) and a controlled spindle speed from up to 24,000 rpm for a high torque even at low engine speeds.



Pneumatic interface – the interface with 3-way support on all C-axes and 5-axis heads enables the use of traced units, e.g. for precise rounding off at the top and bottom no matter the thickness tolerances.

Changer systems

Just be flexible

Everything is in good hands and quick to access. Tool changers are the basis for flexible utilization of tools and units, and also for large saw blades or heavy units.



1 Changers traveling with the spindle for tool change during drilling or edge banding.

2 Changer traveling in X direction for fast access and large capacities.

3 Changer on the side of the machine bed with integrated tool transfer station. Additional capacity and convenient exchange of tools from the front.

Systems for all requirements

There is nothing left to be desired: More than enough capacity with up to 50 (32 + 10 + 8) storage spaces and fast processing by systems with short change times.



8-fold linear changer with tool transfer station, mounted on the side. As an option, the pick-up station for the easyEdge unit can also be integrated.



10-fold tool changer traveling with spindle. Tool change during drilling or edge banding. For tools and units with a diameter of up to 180 mm.



32-fold tool changer – arrangement of the tools in an inner and an outer ring. For tools and units with a diameter of up to 200 mm and saw blade up to 350 mm in diameter (in the outer ring).



14-fold tool changer for tools and units with a diameter of up to 200 mm and saw blade up to 350 mm in diameter.

Units

Excellent processing quality and new standards for speed

The HOMAG units provide numerous innovative technologies. They can be combined and precisely coordinated to your specific application situation. Even special tasks are worked out safely and efficiently.



Corner notching unit



Underfloor routing unit



Boring/routing unit



Boring/routing unit



FLEX5 drilling/sawing/routing unit



Routing unit floating



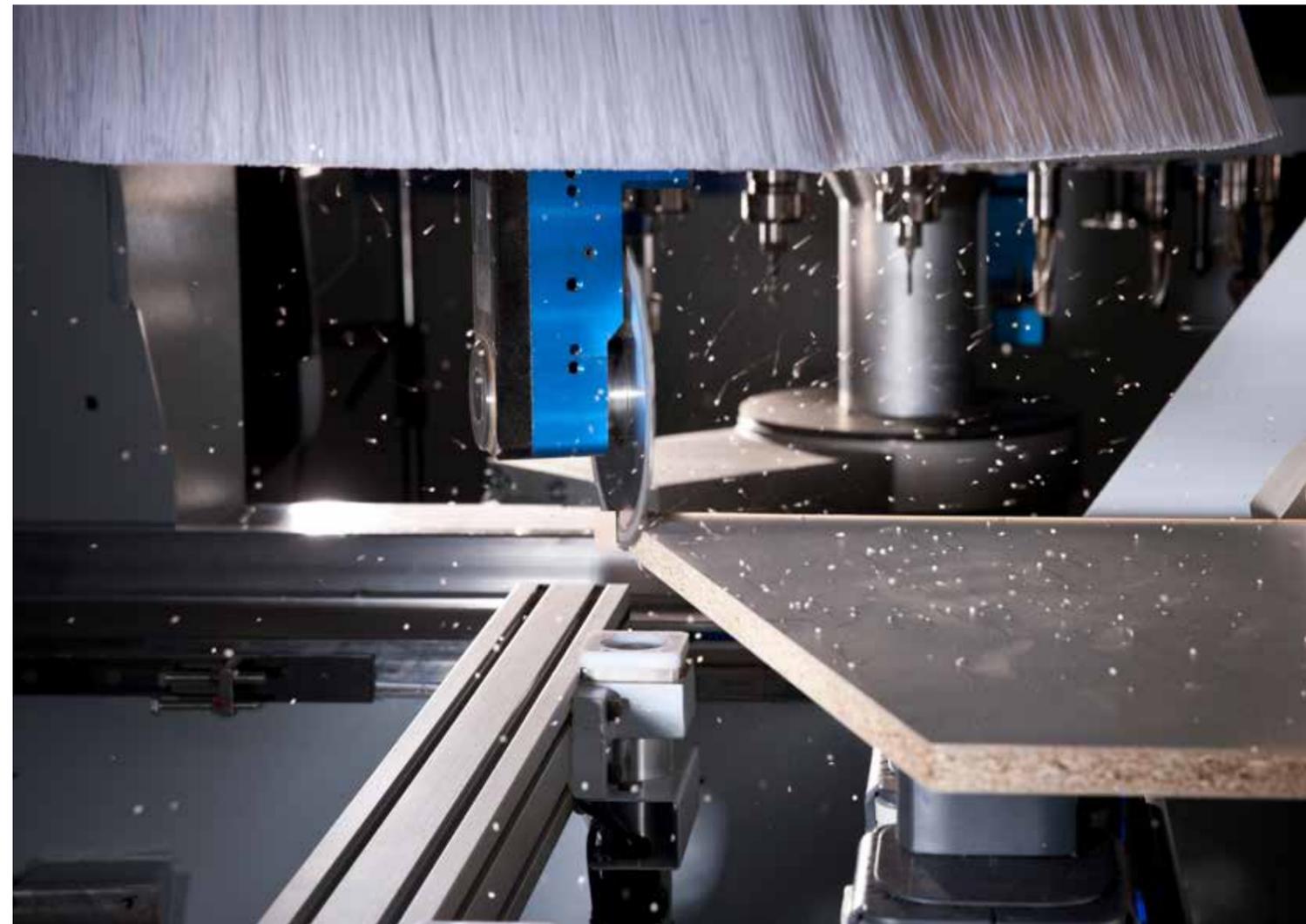
Lock case routing unit



Belt sanding unit

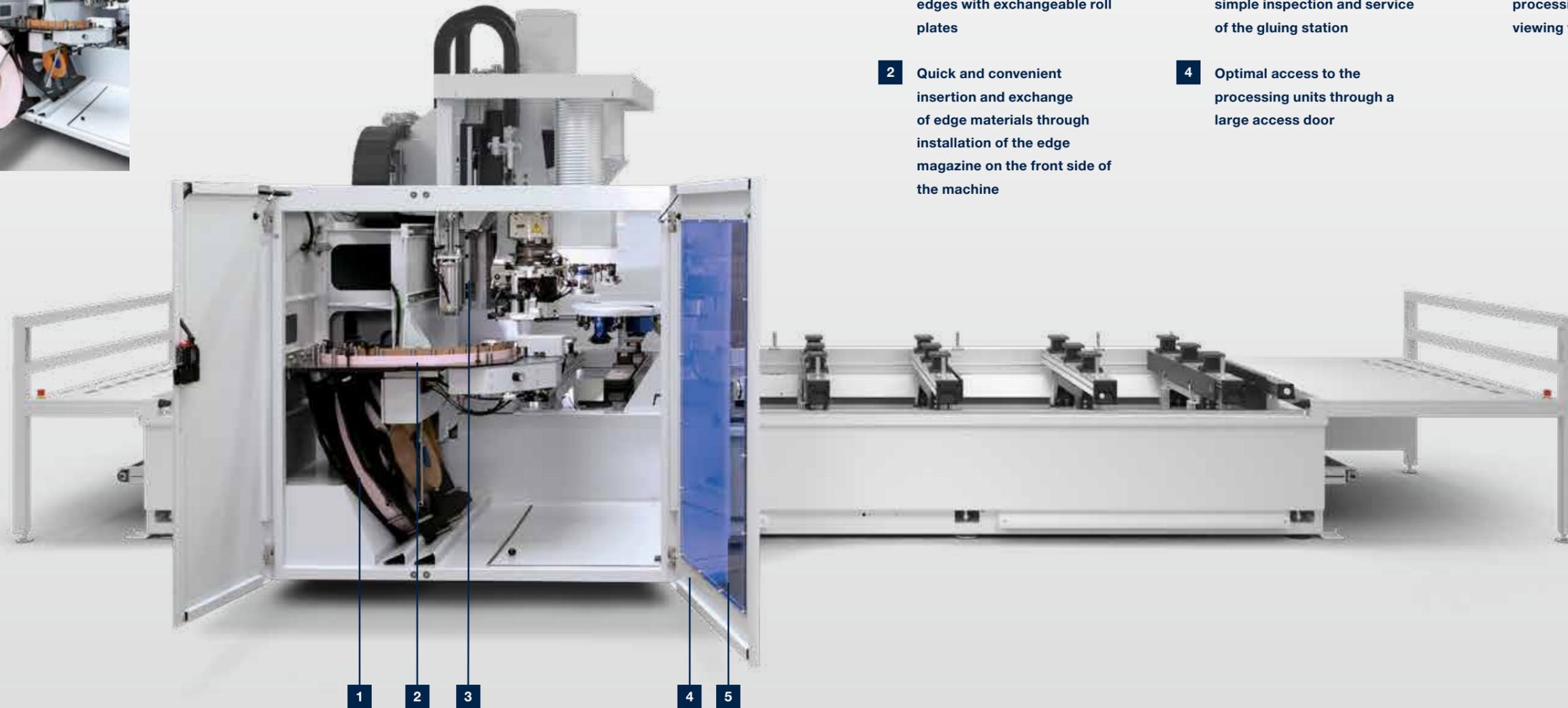


Eccentric sanding unit



CENTATEQ E-310





- 1** External preparation of the edges with exchangeable roll plates
- 2** Quick and convenient insertion and exchange of edge materials through installation of the edge magazine on the front side of the machine
- 3** Easy refilling of hot-melt glue, simple inspection and service of the gluing station
- 4** Optimal access to the processing units through a large access door
- 5** Optimum view into the processing through large viewing window

Edge banding with HOMAG

Top edge quality with easy operation

Compact and powerful: The CENTATEQ E-310 is the ideal solution for smaller companies and suppliers when it comes to shaped edge banding. The CENTATEQ E-310 achieves a high level of performance in a small space thanks to the

compact arrangement of the units and the free choice of configuration, with tool change spindles, drilling gears and tool changers.



- 1** Edge banding unit with granulate container
- 2** High Speed drilling gear with attachments (optional)
- 3** Powerful 4- and 5-axis routing spindles

Perfection for corners and edges

The CENTATEQ E-310 is a real all-rounder. Formatting, profiling and drilling is supplemented with shaped edge banding, with perfect joints and edge finish.



powerEdge Pro Duo edge banding unit – one unit for all requirements. Zero joint technology and accurate tracing ensure perfect results for 360° gluing.



Quick service function for fast and efficient maintenance and cleaning thanks to straightforward opening.



easyEdge edge banding unit is the universal solution for edging small quantities.



Additional application unit for quick changing for different glue types. With optional non-stick coating for manual filling with PU.



Sawing and snipping unit with saw blade in the center of the C axis. Snipping cuts during edge banding are therefore performed with high precision.



Combination unit for flush milling of the edge overhang and the scraper postprocessing in order to remove blade strokes and other unevenness on the edge profile.



Combination unit, snipping/corner rounding. For the traced cutting to length of edge overhangs and precise corner rounding of edges.



Flush trimming unit with separating agent reduces the glue residue on the workpiece and often makes the glue joint scraper unnecessary.



Trimming unit, horizontally traced for flush trimming of edge overhangs, e.g. on the postforming profile of a kitchen worktop.



- 1 Granulate container:** The granulate container can be released using a bayonet fitting and removed from the machine, meaning that changing the glue color is quick and easy. Alternatively, small amounts can be filled into the application unit directly
- 2 Application unit:** The application unit can be quickly and easily replaced to make way for a change in glue color or type.
- 3 Fine adjustment via a scale:** Adjusting the glue quantity is simple and repeatable using a scale.
- 4 Hot-air unit:** The intelligent control system for the hot air masters the nozzle provides optimum performance for difficult inside and outside radii and ensures a constant temperature at the joint, regardless of the feed and whether conventional hot-melt glue or pre-coated edges are used.
- 5 Pressure roller:** The pressure roller applies the edge to the workpiece with a precise amount of force. This, in conjunction with a defined temperature, ensures perfect workpieces without a complicated programming procedure.

K-table

Flexible and fast

THE CLASSIC, DUAL-CIRCUIT VACUUM SYSTEM.

The vacuum clamps are infinitely positionable and offer a free space for the use of tools as well as for the falling offcuts. The K-table is the ideal solution when flexibility, secure clamping of very different parts and fast exchange of the clamping

systems are required. The rapid, precise and especially easy positioning of the suction unit is enabled by the LED or laser positioning aid.



Measuring tape for positioning the suction units.



LED system – arguably the fastest and safest positioning system for consoles and clamping elements.



LASER positioning aid – vacuum suction units are indicated by a laser cross-hair. The workpiece contour can be “moved” as a positioning aid for free-formed workpieces.



Laser projection of the clamping equipment and the workpiece contour for optimal utilization and simple positioning of unprocessed parts that cannot be aligned on the stops.



Clamping unit ensures safe and quick clamping of jambs and scantling.



powerClamp manual clamping device for straight and curved parts. Ideal for all curved, narrow and frame parts.



3-step clamp: Highly rigid 3-step clamps with extreme clamping height for precise complete processing of window and front door components without subsequent outside moulding and profiling.



Multi-clamp for dual-circuit vacuum system. Vacuum-actuated clamping element for clamping strips and elements.



Matrix adapter plate also offers secure fixing for filigree workpieces. Shaped parts in the nesting process can also be “tailored” on a console table in an optimized way with the matrix adapter plate.

Accurate and safe with the console table

Thanks to the system of solenoid valves, vacuum suction units and other clamping equipment can be used in any number and in any location on the consoles. Application-optimized stops and insertion aids ensure precise placement and positioning of the components.



- 1 Stop pin
- 2 Stop pin for covering layer overhang



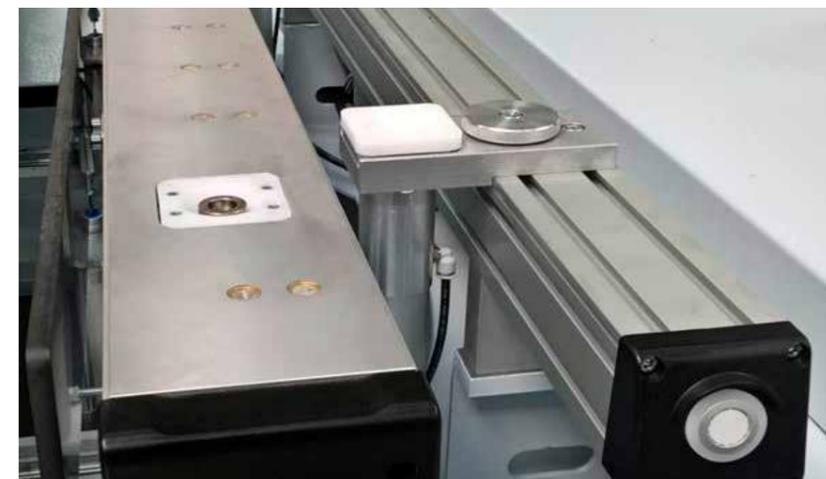
»PURE STOP« side stop made of anodized aluminum is guided on linear guides. Precise and solid stop for positioning strips and rounded-off components.



Electronic cylinder surveillance
Improved safety by electronic surveillance of all stop cylinders



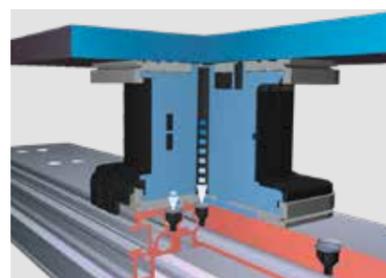
Stop pin for covering layer overhang
with end position monitoring to protect tools, units and machine operating personnel.



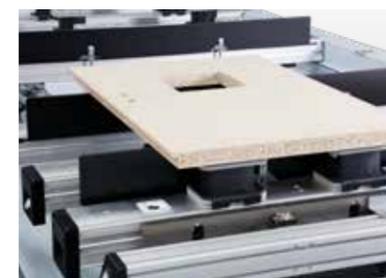
Side stops can be moved via a quickrelease mechanism.



Chip conveyor for easy disposal of the offcuts and chips.



Dual-circuit vacuum system – exclusive vacuum clamping technique with double sealing flange for infinitely variable movement of the clamps along the console. The first clamping circuit fixes the clamp on the console and prevents unintentional moving, the second then keeps the material stably in position.



Linear guide and insertion aid – easy handling by consoles with highly precise linear guides and robust insertion aids with two pneumatic cylinders. Vacuum and compressed air connections for pneumatic clamps and clamping templates are integrated in the consoles.

A-table

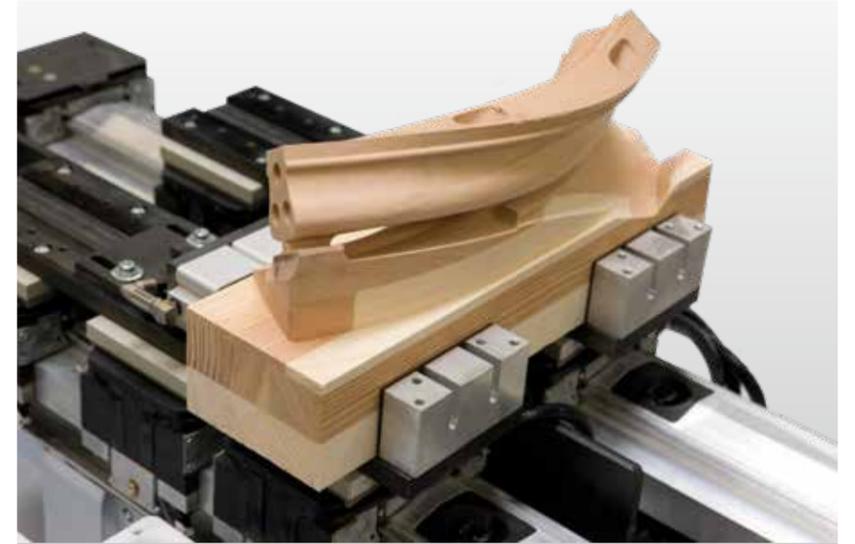
Automatically in the right place

The A-table is the key to greater convenience and automation. Through the program-controlled positioning of the consoles and clamping equipment, batch size 1 operation is possible without manual intervention and workpieces can be moved apart after a separating cut.

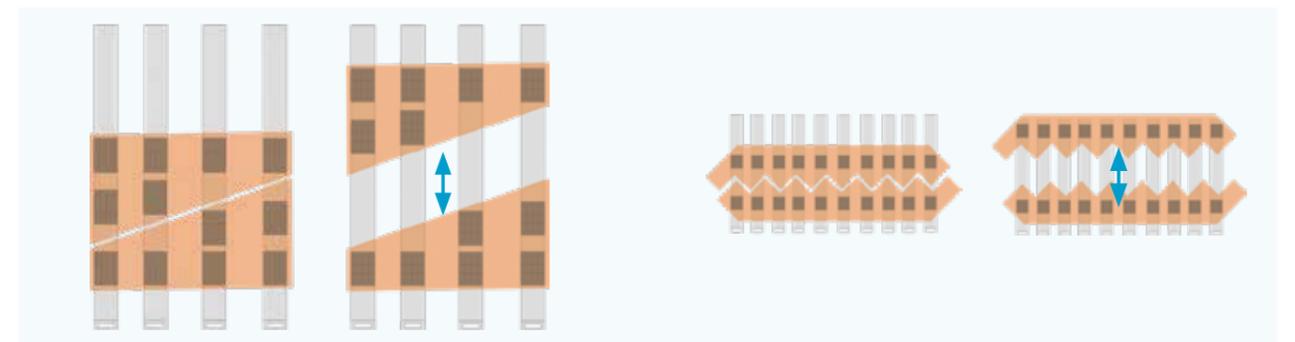


Vacuum clamps with tracing valve – unoccupied suction cups can remain on the platform. Mounting height 100 mm

Clamping unit ensures secure and quick clamping of jambs and scantling.



movePart ensures automatic moving apart after separation in the program sequence for complete processing.



In staircase construction, for example, stages can be moved after separating for complete processing.

A-FLEX table

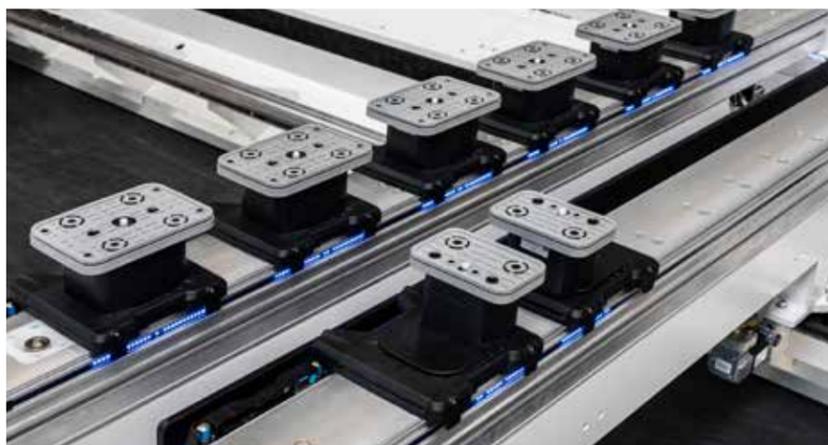
Automatically and flexible

The A-FLEX table is the perfect combination of the console table and the automatic table. With the A-FLEX table, you automatically set up the consoles and vacuum cups while remaining flexible and universal in use. Thus, you are perfectly positioned for all requirements.



All clamping devices available

The basis of the table is the proven 2-circuit vacuum system. Thus, in addition to the automatically positionable elements, all standard clamping devices can be used in manual operation.



LED setup aid and vacuum cups with tracing valve

Put on the right vacuum cups – correctly oriented and in the right order, always. The cups can be placed quickly and safely, assisted by the LED display direct on the console. The vacuum cups are available with an optional touch valve and can remain on the machine even when they are not occupied.



Floating instead of pushing

The vacuum cups move on an air cushion along the console. Nozzles at the front and rear of each cup blow dust and chips off the console for trouble-free placement and to help extend the life of the system.

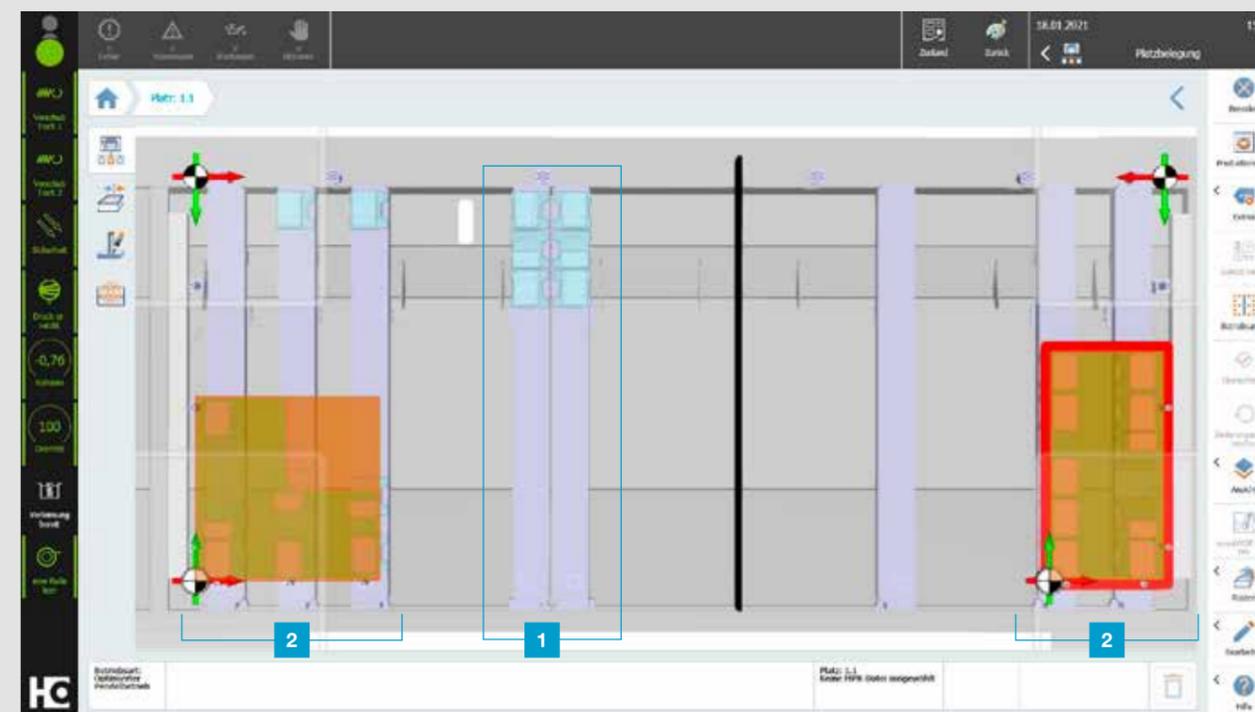


safeScan safety technology

This machine includes a scanner for contact-free protection. After start release, the table starts the cup setup independently when the operator leaves the safety area.

PC 87 slot assignment

Programming each vacuum cup manually? That's a thing of the past! The PC 87 slot assignment calculates the best vacuum cup arrangement for the clamping devices available on the machine.



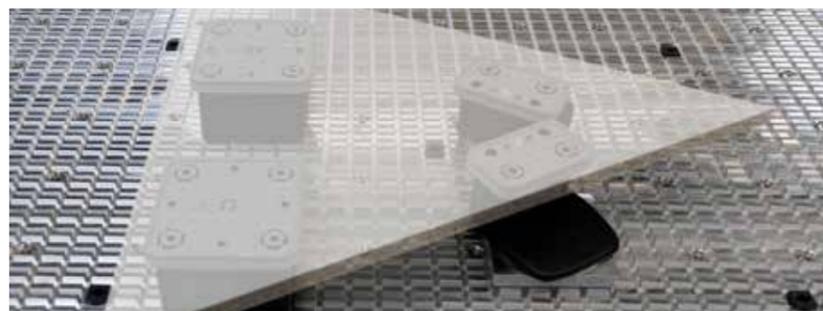
- 1 Parking of vacuum cups and consoles:** Programmed cup setups with a fixed sequence and alignment of the clamping elements enable fully automatic work. The vacuum cup program is aligned accordingly, and no vacuum cup has to be turned or exchanged. Cups and consoles that are not required are automatically moved into the parking position.
- 2 Asymmetrical table division:** Each console can be moved to the other field in alternate operation. Thus, large parts can be processed on one side and small parts on the other side on 2 or 3 consoles.
- 3 Free number of vacuum cups and combination with manual clamping devices:** Up to 8 vacuum cups can be positioned automatically, and any number of others can be positioned manually. This means that even thin parts are held securely. And automatically positioned and manually set clamping devices can be combined in one setup, with full support from the LED display.

MATRIX table

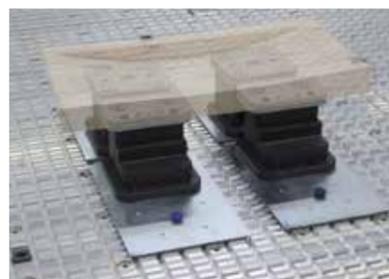
Versatile application

The grooved aluminium MATRIX table permits the positive locking of clamping elements and consequently reliable workpiece fixture even where high hogging forces are involved. The transmission of vacuum through the table construction optimizes distribution of the vacuum, reduces

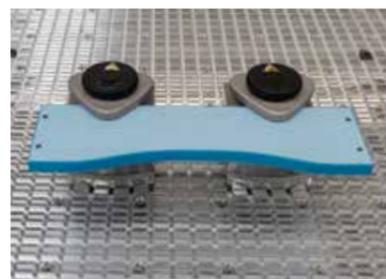
leaks and transmission losses and does away with the need for complex installations. The MATRIX table is also suitable for aggregates due to different clamping elements with variable mounting heights.



Vacuum clamp Vacuum clamping elements for insertion in the grooves of the MATRIX table



Maxi-Flex system System base plate for vacuum clamp that can be equipped as required

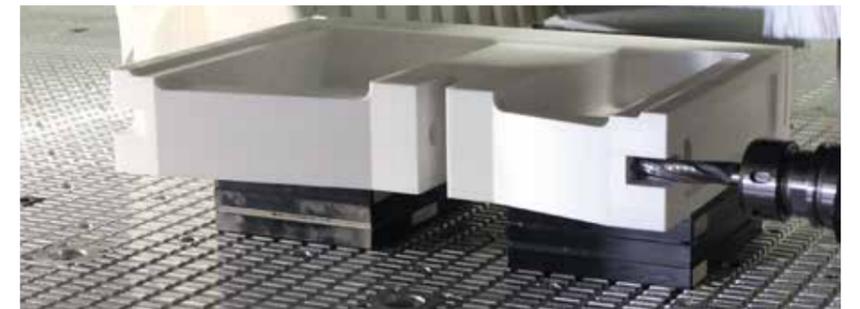


Multi-clamp Vacuum-actuated clamping elements for clamping strips and scantlings



Fixture using non-standard clamps The aluminium MATRIX table with dovetail guides guarantees precise, positive fitting clamping element fixture

With diverse types of vacuum blocks with different heights it is possible to carry out simple and quick horizontal processing on MATRIX tables, e.g. for doors. And when processing technical components and moulded parts, it is also possible to partly dispense with clamping templates.



Slot nuts with thread for positive locking of clamping fixtures in the dovetail guide



1" vacuum connections with quick-open function by means of switch cabinet key, vacuum openings with precision thread for fixing clamps



Nesting processing of panel materials: waste-optimized cutting to size and processing in the surface

Automatically better: Made-to-measure production solutions

We use intelligent solutions to create manufacturing cells from CNC processing centers, with automatic material handling and specific additional tasks. You therefore make the best use of your machine and achieve the highest quantities. Our basis for this is innovative system technology and many years of experience in the construction of complex systems of all sizes worldwide.



TBA feeder attachment

Simple and space-saving entry-level solution for automation using the TBA feeder mounted on the side of the machine. Safe handling, precise positioning and integrated workpiece cleaning. Extremely simple operation and programming directly via the woodWOP processing program.



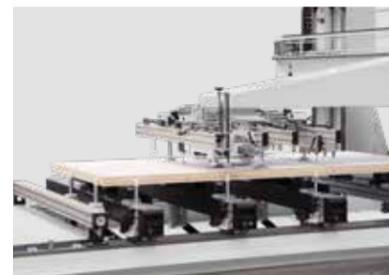
Robot feeding

Unrestricted workpiece handling with a wide range of storage patterns, storage slots, alignment and turning. Additional functions such as labeling, position measurement and cleaning can be integrated.



Gripper technology with system

Integrated sensor technology prevents errors caused by parts sticking together and ensures that they are picked up correctly.



Alignment against stops

Flexible suction grippers enable workpieces to be precisely positioned against the stops on the machine table.



Handling automation

Safe, material-friendly and economical



Alignment, validation and turning

The free movement of the robot in up to 6 axes allows additional functions to be easily integrated into the process (e.g. turning function for two-sided processing).



Cell control and system visualization

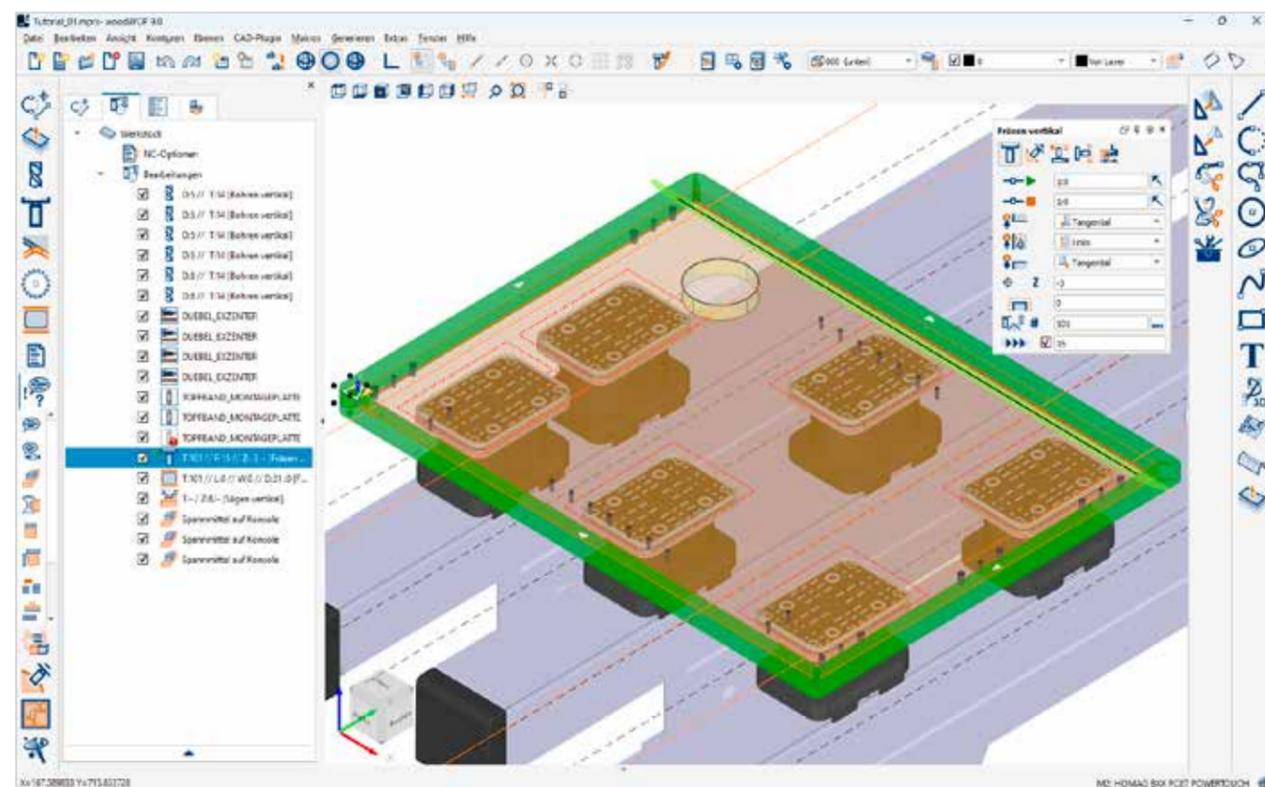
For safe and efficient operation of the cell, especially in batch size 1 production, HOMAG offers a simple and intuitive interface for visualizing and controlling the entire cell.

HOMAG software solutions

The basis for simple and efficient operation

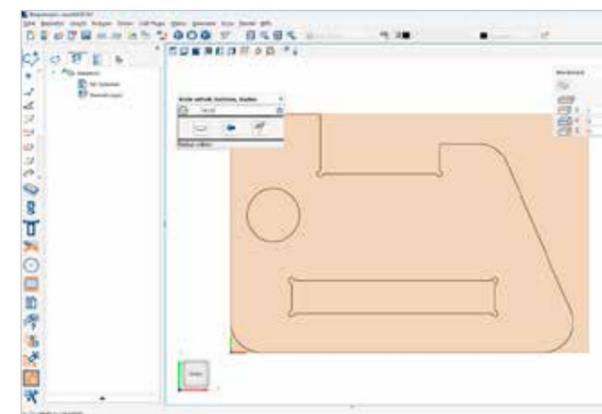
Our processing centers are one thing – the software to operate them conveniently and easily day-to-day is another. HOMAG software and control modules ensure maximum flexibility and operational safety. Naturally with HOMAG:

Interfaces to external programming and construction systems, auxiliary programs for nesting and modules for machine monitoring and performance tracking.



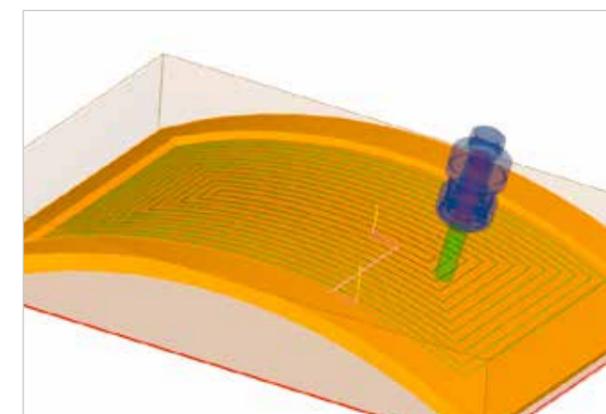
woodWOP – efficient thanks to fast programming

- Fast and intuitive operation thanks to simple, direct navigation
- Select from a choice of variables for flexible variable programming
- Quickly create individual subprograms
- Increased programming security through 3D images of workpieces, processing and clamping equipment
- Very easy to use through infinitely adjustable windows, multi-screen capability, language-neutral input screens, help images, etc.
- The largest online forum for CNC programming is: forum.homag.com



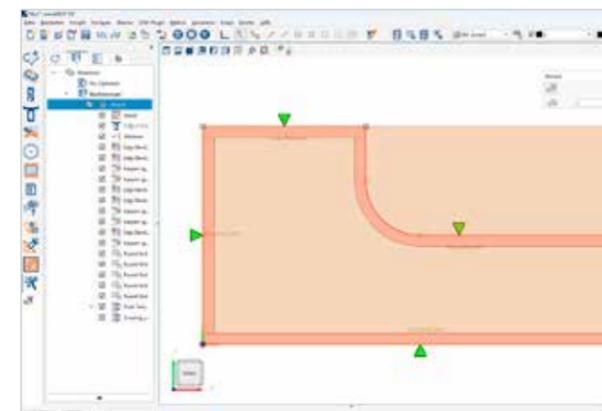
woodWOP CAD-Plugin

- CAD functions integrated directly into woodWOP
- Creation of your own CAD drawings on the machine and the work preparation station
- Import of CAD objects in the formats DXF, IGS, STP, STL



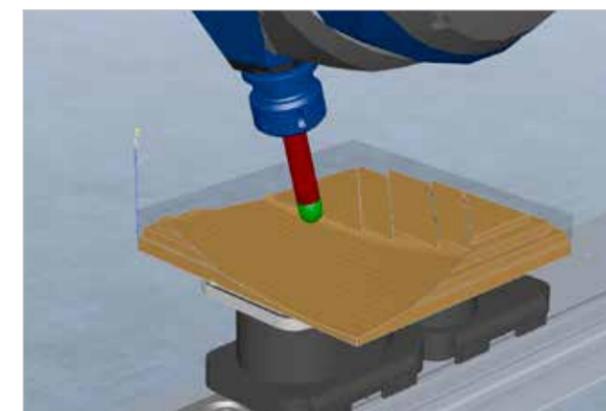
woodWOP CAM-Plugin

- CAD/CAM functions directly integrated into woodWOP
- Rapid construction of 3D surfaces in the CAD plugin or by importing 3D models
- Automatic generation of the milling paths for roughing, finishing and formatting 3D objects
- Safe work, because the milling paths and the overrun movements are displayed graphically and simulated in woodWOP



woodWOP Wizard – automatically the perfect edge

- Automatic generation of the entire processing sequence for the edging
- Creation of all processing steps such as pre-milling, joint trimming, edging, cutting, flush trimming and scraper
- Considers workpiece geometry, edge overhangs and edge type
- Time savings of over 90% compared to conventional programming



woodMotion – processing simulation of programs

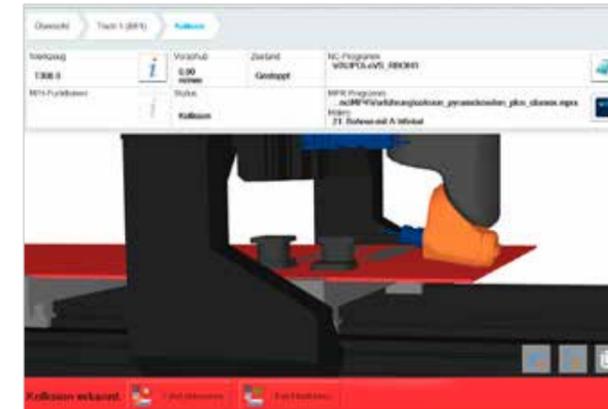
- Graphic simulation of the CNC program on the workstation PC
- Optimal program preparation as running-in periods on the machine are reduced
- Simulation of 5-axis processing including material removal
- Display of the actual processing times and collision monitoring between tool and clamping elements



More information
you find on our website in the brochure
»Software from the HOMAG«



- powerTouch PC87 with full touch operation**
- 3D view of the machine bed, consoles, suction unit and workpiece
 - Simple assignment using drag & drop
 - Saving and loading of complete assignment situations
 - Automatic location-specific suction unit recommendation with selectable suction unit types
 - Manual clamping equipment positioning using touch under consideration of all travel areas



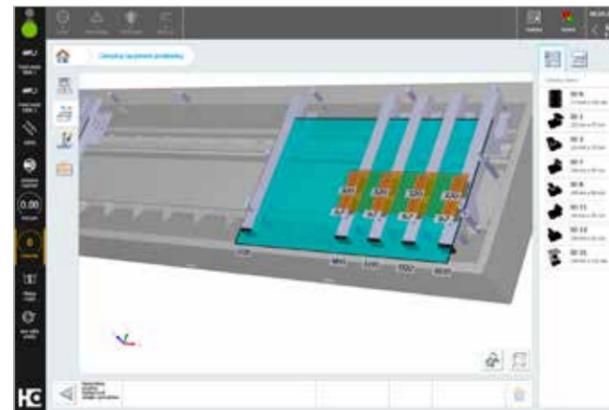
- collisionControl – permanent security for your machine**
- Monitors for potential collisions between machine components and clamping equipment during processing
 - The machine stops automatically in the event of an imminent crash situation
 - The crash situation is displayed as a snapshot with colored collision bodies
 - The machine is displayed as an active 3D model in live mode



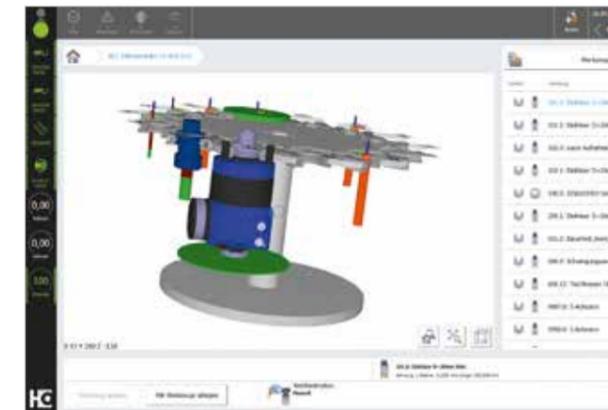
- woodScout – help in your language**
- Optional powerful diagnostic system
 - Graphic display of the malfunction location on the machine
 - Clear plain-text error messages in different languages
 - Adaptive system through the allocation of causes and measures



- Slot assignment**
- Can be operated completely by touch
 - Simple assignment using drag & drop
 - Preview of the woodWOP programs as a miniature view
 - Assignment of parts with different thicknesses
 - Saving and loading of complete assignment situations
 - 3D view can be freely rotated
 - 3D representation of machine bed, consoles, stop cylinders, suction unit and clamp, workpiece and processing



- Automatic suction unit recommendation for workpiece or entire table**
- Suction unit recommendation with preselection of suction unit types
 - Processing tracks as an aid for positioning clamping equipment
 - Manual clamping equipment positioning using touch under consideration of all travel areas
 - Check of suction units already included in the woodWOP program
 - Warning when suction units are not in the correct position



- Graphic tool data base**
- Record quantities and actual operating times on the machine
 - 3D representation of the tools and units
 - Graphic setup of the tool changer using drag & drop



- Machine data acquisition MMR – for a productive environment**
- Record quantities and actual operating times on the machine
 - Integrated maintenance instructions for optimum time and quantity-based planning, as well as performing maintenance
 - Optional professional version allows detailed breakdown and logging of the recorded data

Apps and digital assistants.

Quick and easy support in your machine environment.

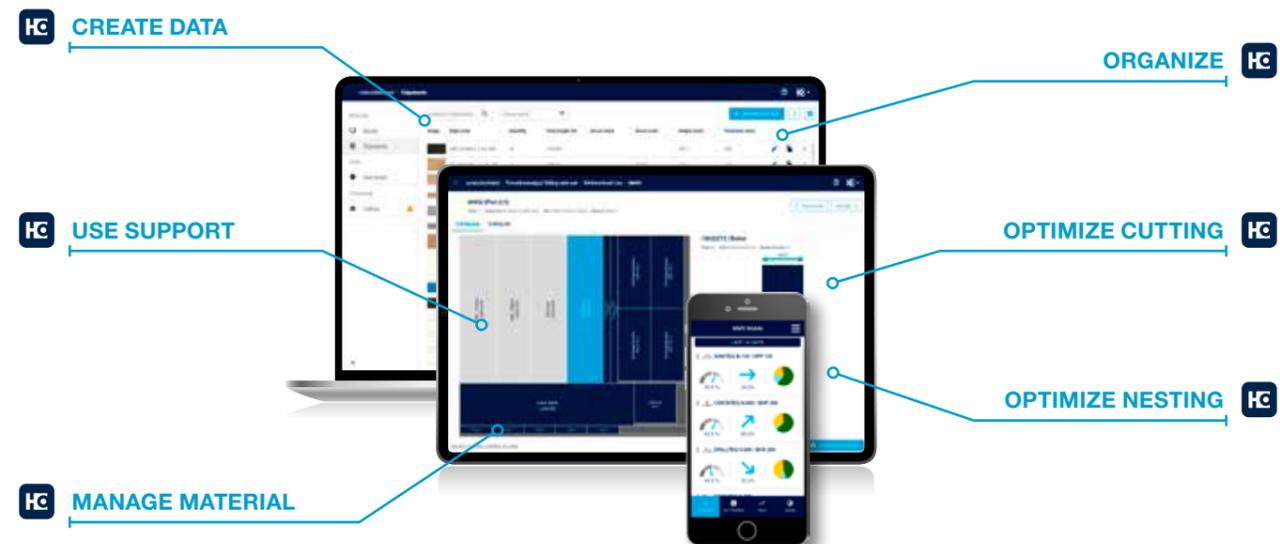
Some people still use pen and paper to create their cutting patterns. But they look at their smartphone if they want to know what the weather is like – instead of looking out of the window. We asked ourselves: why not combine the best of both? Our apps and digital solutions make your everyday work easier: machines, material, tools, cutting patterns, components – you always have everything in your pocket or on your desk.

EXCERPTS FROM YOUR FEEDBACK:

- Are there simple solutions that can eliminate various obstacles in my day-to-day work (e.g. when organizing materials or sorting parts)?
- Is there a way to slowly approach using digital assistants?
- Which tools can you try out simply and easily without having to invest huge sums of money straight away?

OUR ANSWER? SMART AND POWERFUL SOLUTIONS:

- ✓ Always low investment
- ✓ Always up to date (no updates necessary)
- ✓ Always easy to use (no complex software)
- ✓ Always helpful



THE ADVANTAGES AT A GLANCE

- No investment, update or maintenance costs
Low starting price, no unplanned financial expense
- Licenses are independent of the user
Any number of employees can use the application without incurring additional costs
- Independent of hardware and operating system
Can be used anywhere, anytime
- Open system – import possible from almost all systems (ERP, industry software, CAD/CAM, Excel, CSV)
No obligation to use specific software systems
- Simple, smart operation
Minimal training required
- More efficient production
Jobs completed more quickly, more safely and in higher quality



More information at digital.homag.com



LIFE CYCLE SERVICES

Improved performance, more efficient processes, faster help, assurance of availability and smarter workin

TEAM & COVERAGE

Largest global service network in the industry with over 1,350 personnel.

INSTALLATION & COMMISSIONING

For a smooth start, we only let proven experts manage your setup.

OPERATION & CONTROL

After teaching your personnel the intuitive control system, our clever apps help to make the operator's life much easier.

MAINTENANCE & SERVICING

To keep things running, we're happy to take a preventative approach. You decide how often and how intensively you want the support to be. As we all know, prevention is better than the cure.

eSHOP & ONLINE ADVANTAGE

A few clicks and it's fixed. Receive exclusive advantages by ordering spare parts online, depending on market availability. shop.homag.com

HOTLINE & READINESS

When there's an emergency, we're here. Direct by phone, digitally via app or video, or with on-site support. We are close to you with over 90 regional service organizations worldwide. With more than 35,000 spare parts immediately available, we can deliver 85% of your orders fast.

TRAINING & EDUCATION

With classroom, live online or eLearning training, we offer flexible options to help you get knowledge. We conduct over 4,000 customer training courses every year, and we even have our own training centers in 19 countries

MODERNIZATION & IMPROVEMENT

Our modernization program is tailored to your machines and processes. We can evaluate your data and situation and advise you on the next step.

ANALYSIS & SUSTAINABILITY

On request, we analyze all your processes with proven tools and procedures (LeanSixSigma). We have a large, certified team of experts for this purpose.

FINANCING & CONSULTING

We offer you tailor-made financing concepts worldwide. With more than 60 years of experience and a close partner network of prominent banks and insurance companies to help us to find the right solution for you, we're always transparent and reliable in processing.

Fast support:

94% resolution rate via our hotline

Close to you:

1,350 service experts worldwide

We get things moving:

Over 1,000 worldwide spare parts shipments each day

No one else has that:

Electronic documentation on over 150,000 machines, available in 28 languages



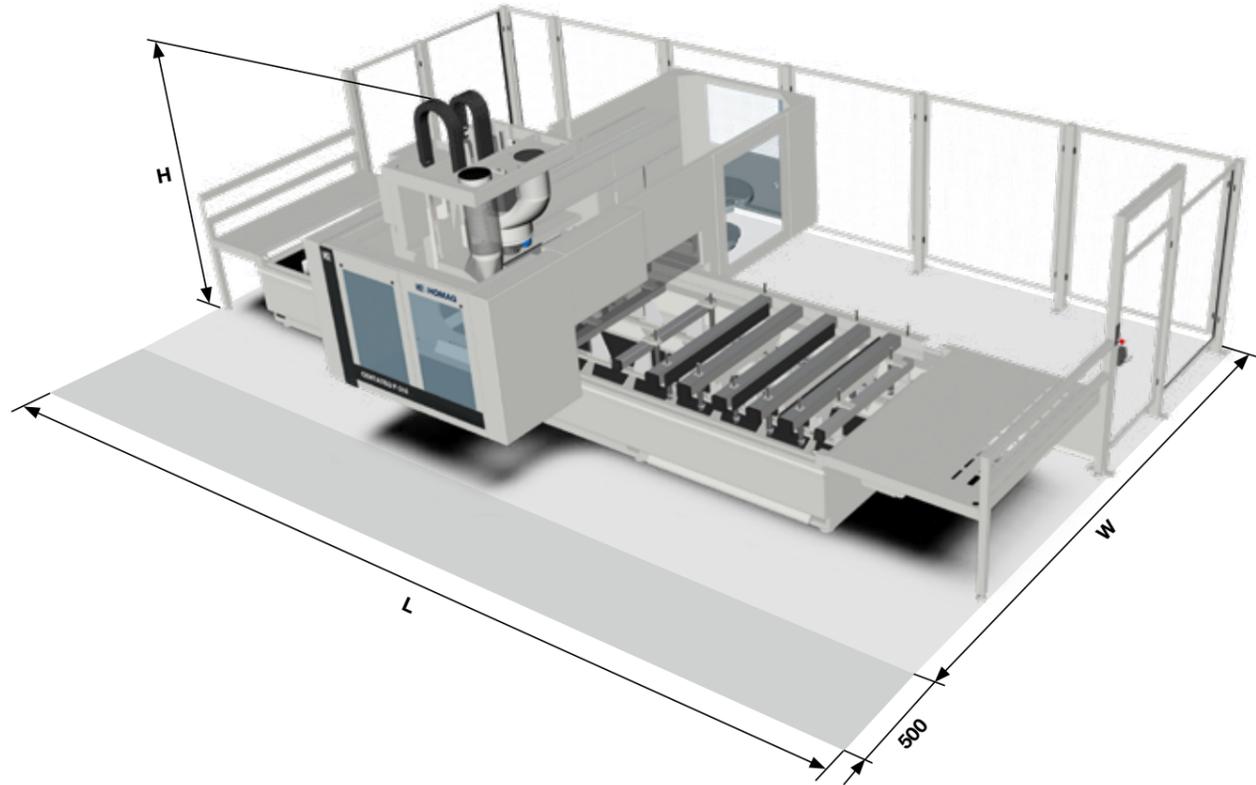
Configurations Overview

The choice is yours. Here is a package available for all common requirements. Nothing is left to be desired.

		Spindle		C-axis	Tool changer			Drilling gear				
					Disk changer		Linear changer	Drilling [7500 High-Speed]			Grooving	
					32	3/19	8	vertical	horizontal in X	horizontal in Y	Attachments	S0/90°
4-axis	Classic	Air-cooled 10 kW / 13.2 kW	Liquid-cooled 15 kW / 18.5 kW	✓	✓	✓	○	12	4	2	○	✓
	Advanced			✓	✓	○	21	6	4	○	✓	
	Premium	✓	○	✓	21	6	4	○	✓			
5-axis	Classic	DRIVE5CS Liquid-cooled 10 kW / 12 kW	DRIVE5C+ Liquid-cooled 15 kW	✓	✓	○	12	4	2	○	✓	
	Advanced			✓	○	21	6	4	○	✓		
	Premium	✓	○	21	6	4	○	✓				
	Solid	✓	○	12	4	2	○	✓				

- Classic** Universal basic configuration for furniture parts, components and edge gluing.
- Advanced** Increased performance in panel processing thanks to more drilling spindles.
- Premium** Fast drilling and universal application with high tool variation.
- Solid** Powerful routing spindle and large changer. Ideal for window, stairs and door manufacturing.

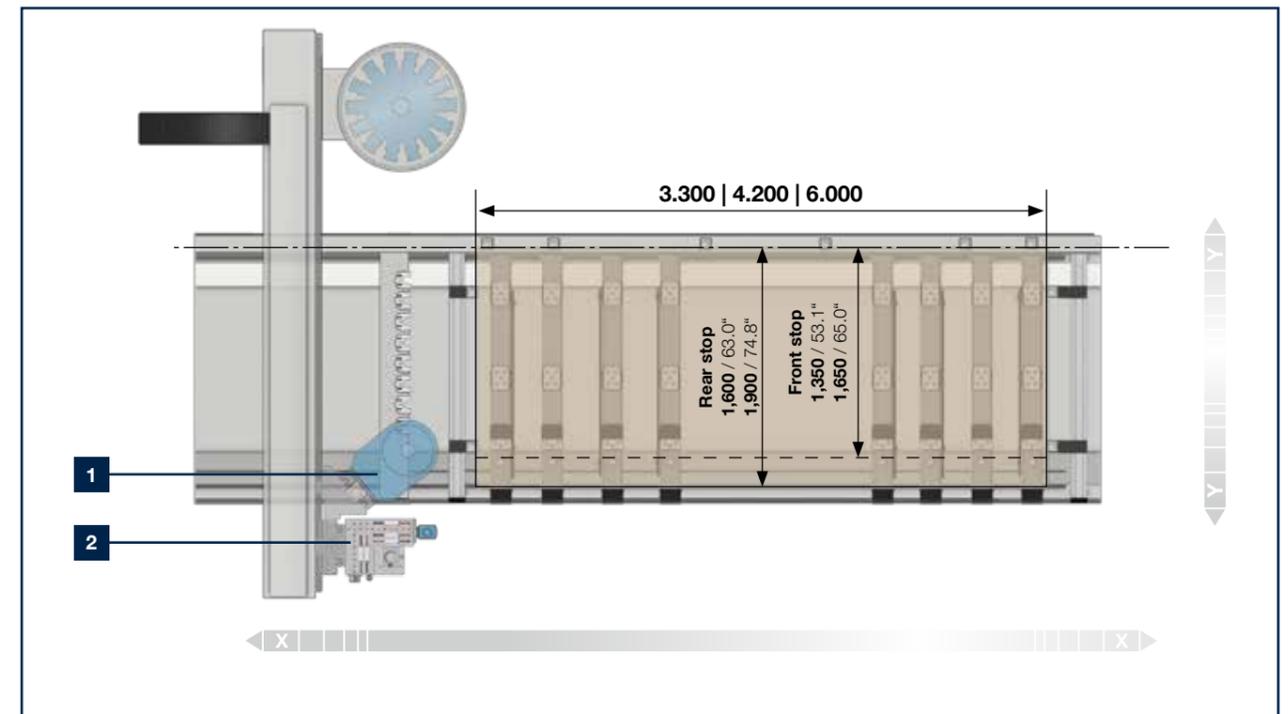
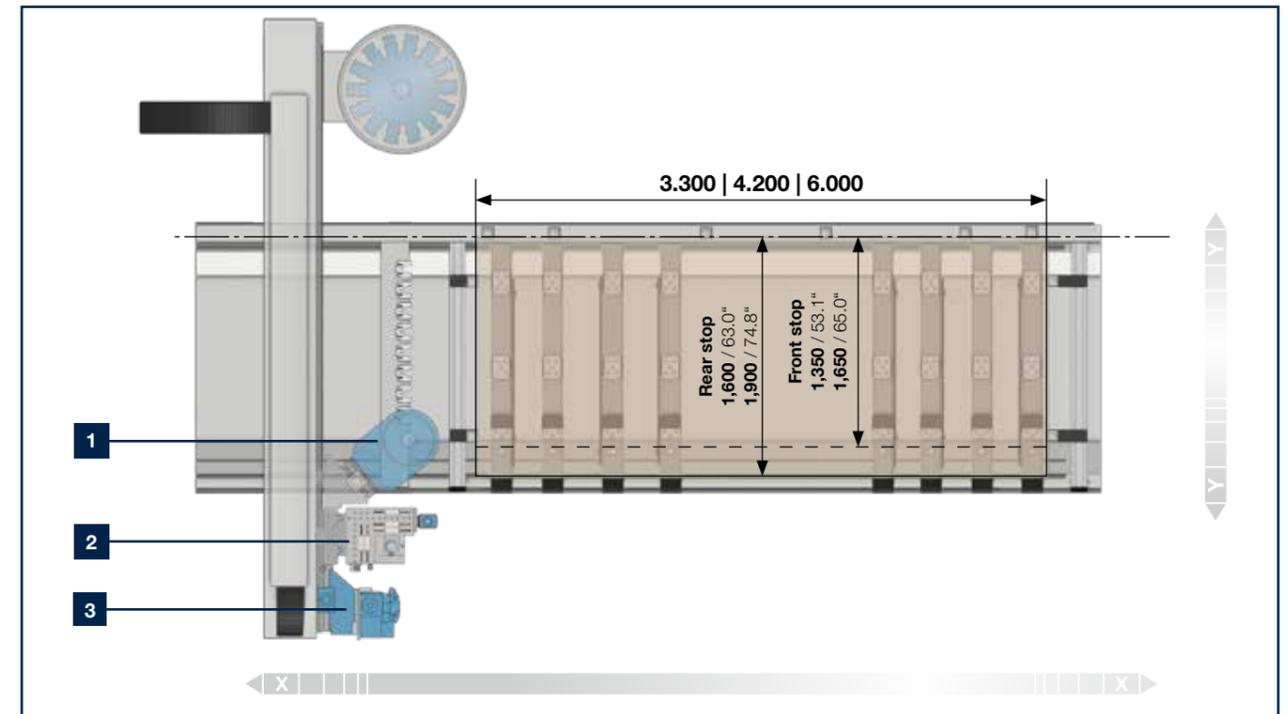
Standard: ✓ Option: ○



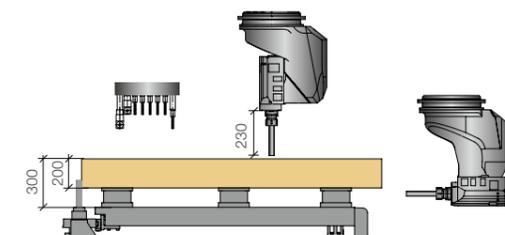
WORKING DIMENSIONS					
Y = Workpiece width [mm/inch]	CENTATEQ P-310			CENTATEQ E-310	
	A = 0° with tool diameter 25 mm	A = 90° with tool length 230 mm / with all aggregates	A = 90° / with all aggregates	Edge gluing and post-processing	
	Rear stop	Rear stop	Front stop	Rear stop	Front stop
/16	1,600 / 63.0	1,350 / 53.1	1,350 / 53.1	1,600 / 63.0	1,350 / 53.1
/19	1,900 / 74.8	1,750 / 68.9	1,750 / 68.9	1,900 / 74.8	1,750 / 68.9
X = Workpiece length [mm/inch]	A = 90° with tool length 140 mm/with all aggregates				
	Individual processing			Alternating processing*	
	/33	3,300 / 129.9			1,000 / 39.4
	/42	4,200 / 165.4			1,450 / 57.1
/60	6,000 / 236.2			2,350 / 92.5	
Z = Workpiece thickness [mm/inch]	from console		with clamping device H = 100 mm		
	300 / 11,8		200 / 7,9		

INSTALLATION DIMENSIONS						
Machine type	Installation length [mm/inch]			Installation depth [mm/inch] with 32-fold tool changer		Installation height [mm/inch]
	L			W		H
	/33	/42	/60	/16	/19	
CENTATEQ P-310	7,400 / 291.3	8,300 / 326.8	10,100 / 397.6	5,050 / 198.8	5,260 / 207.1	2,800 / 110.2
CENTATEQ E-310	7,400 / 291.3	8,300 / 326.8	10,100 / 397.6	5,550 / 218.5	5,760 / 226.8	2,800 / 110.2

* Dimension with central division.
 Technical data and photographs are not binding in every detail. We reserve the right to make changes in the course of further development.



- 1 Routing spindle
- 2 Drilling gear
- 3 Edge banding unit



mm / inch



HOMAG Group AG

info@homag.com
www.homag.com

YOUR SOLUTION