HOMAG

CENTATEQ P/E-510 P-610

One complete system. Maximum performance.
Our CNC processing centers



homag.com

YOUR SOLUTION

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.



YOUR SOLUTION

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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.

CENTATEQ **E-510**

Processing center for edge gluing
with 2 independent Y axes



CENTATEQ **P-510**

3-stage clamping system with
complete table assignment for
window production



CENTATEQ **P-510**

4- and 5-axis combination
with access of both spindles
to a common changer and
A-Performance table for doors
and stairs



CENTATEQ **P-610**

High Z axis and DRIVE5+ 5-axis
head with double-sided bearing for
3D parts processing up to 500 mm



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 viewing window everything is always in view. Access to the table is free, no disturbing fences and barriers are required to the left and right. Full implementation of the bumpers combines optimal productivity, security and access to the machine.

1 **safeScan (option)**

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

2 **Convenience package (option)**

Release, starting a program, pausing and continuing, and raising and lowering the hood can be controlled directly on the machine at the touch of a button. An integrated proximity scanner for intelligent pausing is included.

3 **Deposit position**

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



Optical switch instead of foot switch

No searching and moving the foot switch. Stops, output stroke rails and vacuum clamping can be activated easily.



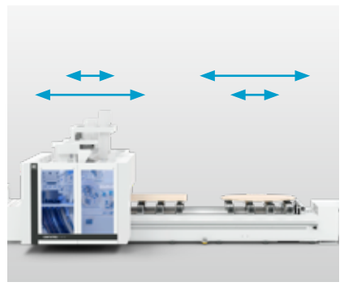
4 Key for program start directly on the left and right stop profile of the machine table. The clamping status is immediately in view thanks to the multi-colored light display.



5 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 help and maintenance using the service pad and display of the machine status on smart devices.



Dynamic shuttle operation without fixed field subdivision. This means that even if long parts are on one side of the machine, a short part can still be placed on the other side.

Economic efficiency as standard

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.



1 **Sliding gantry can be individually configured with trimming spindles, drilling gears and tool changers, enabling scalable performance.**

2 **Sliding gantry with drive unit on both sides for processing depths of more than 3000 mm**

3 **The right table for any task. This allows workpieces to be fixed securely and precisely.**

4 **Machine frame made of SORB TECH mineral composite material**

UPS
(uninterrupted power supply)

Protects the computer against damage caused by fluctuations in voltage, overload and short circuit

Air conditioning (optional)

Air-conditioned switch cabinet



Protecting the environment and improving economic efficiency

A heavy machine bed made of the new vibration-absorbing material SORB TECH saves approx. 60% primary energy and increases the processing quality.



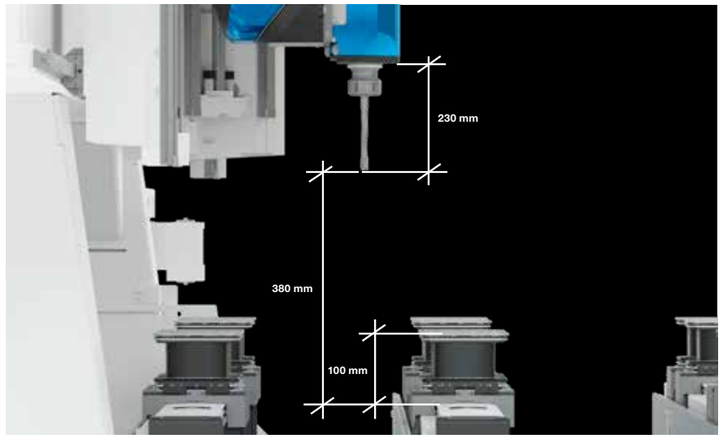


1 **Automatic central lubrication of all main axes**

2 **Closed energy chains to protect cables and hoses**

3 **Covered linear guide with closed guide carriage**

4 **Toothed rack and pinion drive systems in X and Y**



Block processing

Cubic workpieces up to 380 mm (500 mm) in height can also be processed with maximum tool lengths of 230 mm (from HSK support) thanks to the large Z axes of 600 mm (910 mm).



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.

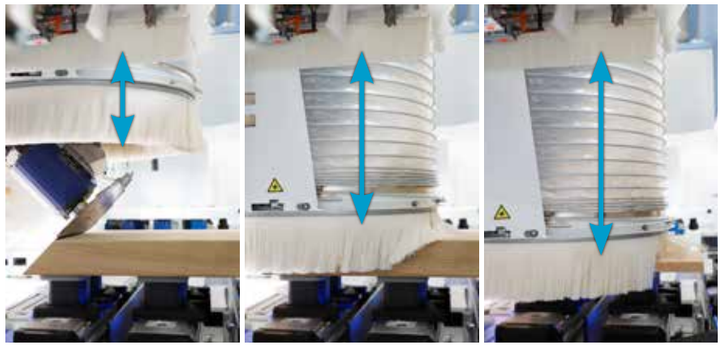


Mobile operator terminal

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.

Energy efficiency

Effective suction at low connected load thanks to optimized detection and removal of chips. Reduced power consumption thanks to standby mode for all power components at the push of a button or automatically after a defined time interval. Reduced compressed air consumption thanks to optimized pneumatic components.



Always in the right place

Effective suction at low connected load thanks to optimized detection and removal of chips. The hood is infinitely adjustable by motor and automatically adapts to the workpiece thickness.

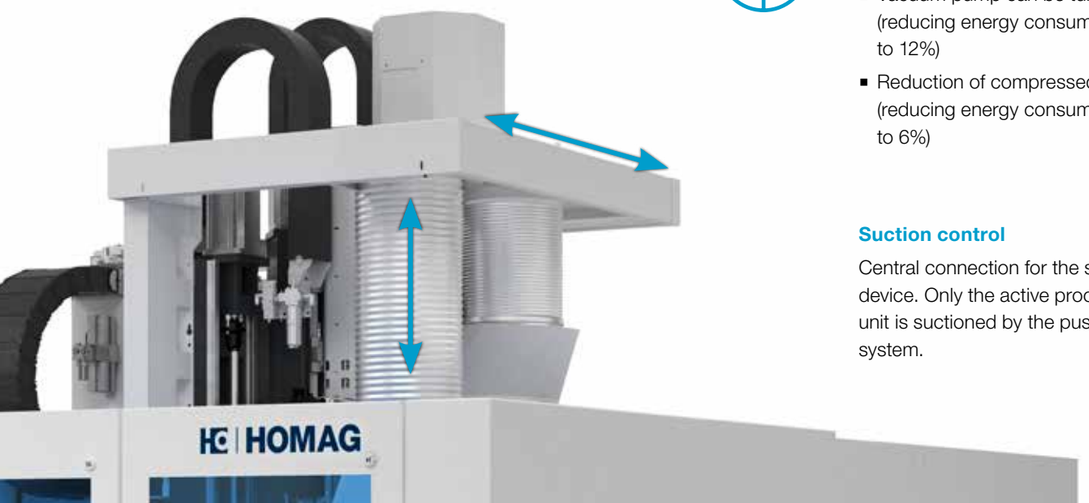


Low-maintenance and controllable vacuum technology

Vacuum pumps with low-maintenance technology ensure a consistently high level of efficiency. The vacuum generation can be adjusted to suit the requirement by automatically (or manually) switching the pumps on and off or by controlling the speed.

ecoPlus – Energy saving function

- Easy activation of the standby mode
- Vacuum pump can be turned off (reducing energy consumption by up to 12%)
- Reduction of compressed air usage (reducing energy consumption by up to 6%)



Suction control

Central connection for the suction device. Only the active processing unit is suctioned by the pusher control system.

Option: Convenience package

Handling literally next to the machine. You can start the program, pause, clear the work area and raise the extraction hood directly on the gantry enclosure using the buttons. The additional proximity scanner stops a program before it comes into contact with the bumper. The program is continued at the same point at the push of a button.



Option: safeScan

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



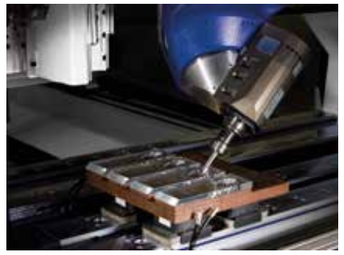
As individual as your needs

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.

SHAPED PARTS



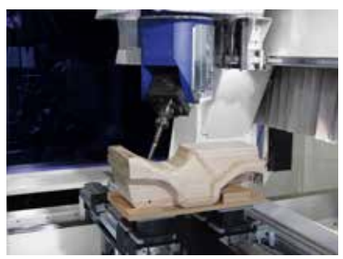
Trimming of components with a high Z height



High-gloss trimming of acrylic parts



Trimming of machine components



Interpolating processing of free-formed workpieces

STAIRS



Trimming a staircase handrail



Separating cuts up to 110 mm in height



Paling holes at a tight angle

DOORS



Precise and tear-free miter cuts



Trimming the lock casing



Trimming a burr connection for jamb/ rail designs

FURNITURE



Trimming a chamfer on a table plate



Angular cutting of a glass rabbet corner



Trimming of angled grooves for panel connection

Diversity
Produced productively

Our technology impresses in a sector where individual solutions are increasingly in demand. Various design styles and design solutions can be implemented efficiently and economically.



Chamfered edge gluing

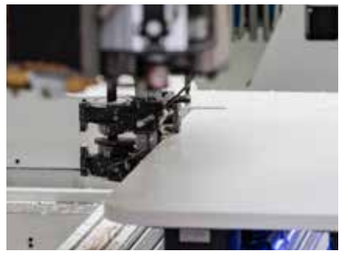
EDGE POST-PROCESSING



Scraper processing on the mitering edge



Traced flush milling of the edge overhangs on the postforming profile



Perfect edge finish through traced combination flush trimming/scraping unit

EDGE BANDING



easyEdge gluing unit for rational gluing on shaped parts

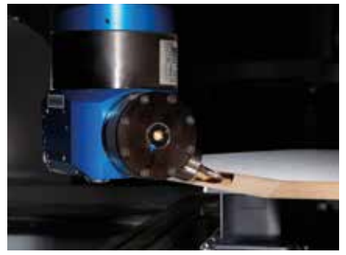


360° edge gluing with the powerEdge Pro Duo edge banding unit



Edge gluing for components up to 100 mm high

ROUTING



Processing at free angles with the FLEX5+ unit



Lock casing trimming on front doors



Profiling frame parts

DRILLING



High-speed drilling technology with groove saw



Horizontal drilling for cabinet connections



Made-to-measure dowel corner joints

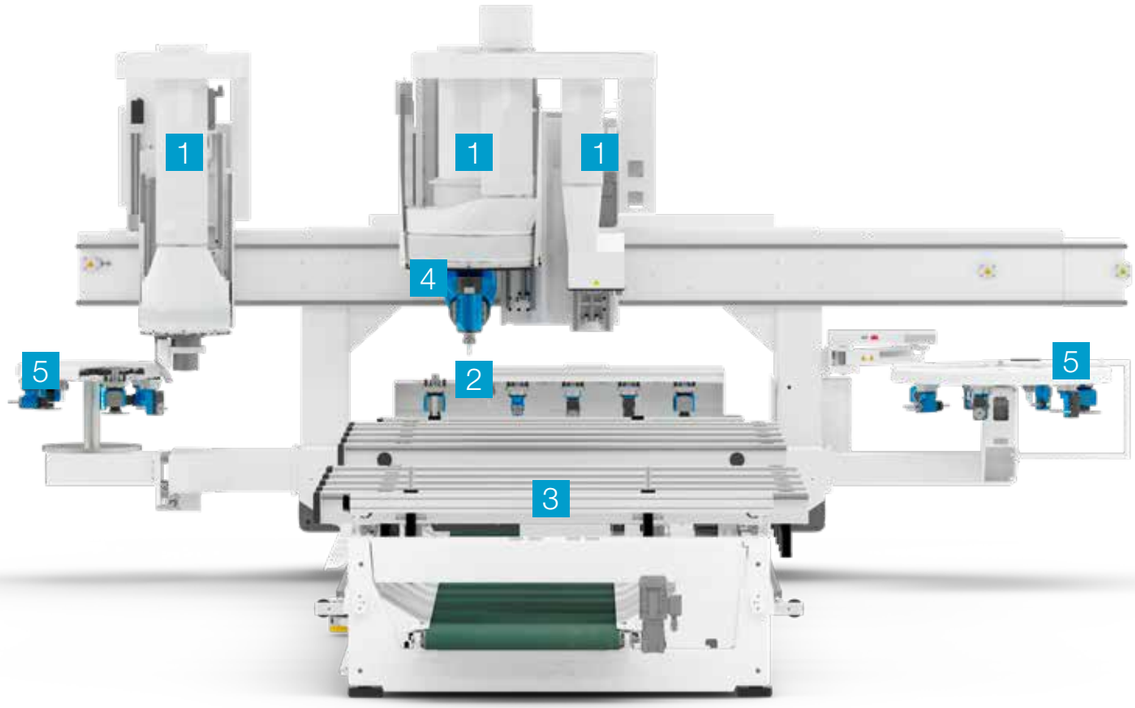
Scalable performance

Up to three processing units can be set up individually. For a quick tool change, e.g. with two trimming spindles and a drilling gear in conjunction with two tool changers.



Tool changer

Tool storage systems with up to a total of 127 slots provide the basis for flexible use of various tools and units, even with large diameters of up to 200 mm. Saw blades can have a diameter of 350 mm for large cutting depths including miter cuts (14-slot or 24/32-slot changer).



1

All processing units on separate Z axes: reduction in the mass moved, improved machine dynamics

2

Actual processing height of 380/500 mm, even with long tool lengths

3

Console table with high-precision linear guides and robust insertion aids

4

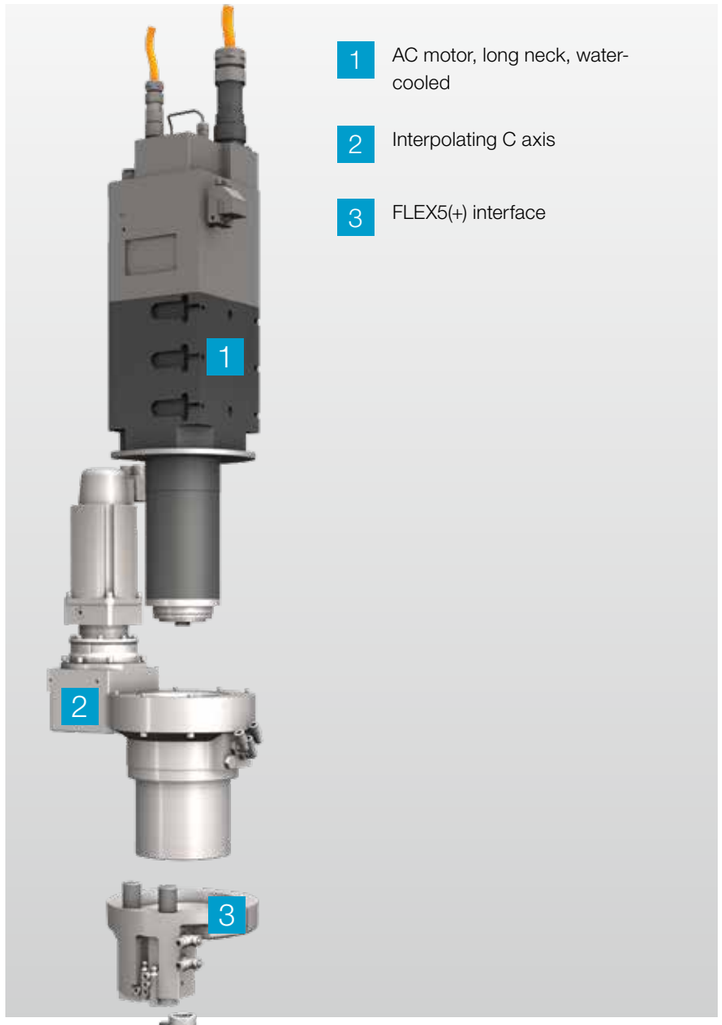
Powerful 4- and 5-axis trimming spindles with spindle sensor and encoder feedback

5

Piggyback tool change systems in X for high capacity and quick access via both spindles

Main spindle technology

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



1 AC motor, long neck, water-cooled

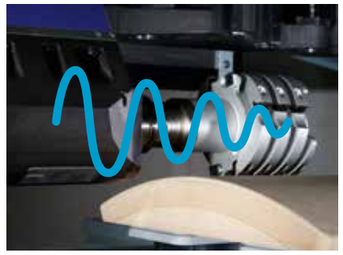
2 Interpolating C axis

3 FLEX5(+) interface



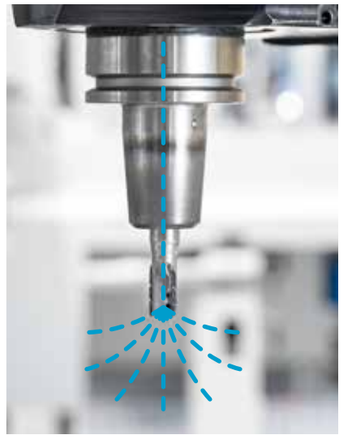
4-axis trimming spindle

with unit interfaces, which open up almost unlimited production opportunities. With patented technologies the range of tasks can be expanded at any time.



Liquid cooling and spindle sensor

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



Internal compressed air supply

Controllable compressed air supply through the spindle to the tool tip. Noticeably better extraction results for pockets and grooves and cooling of tool and workpiece.



Minimum quantity lubrication

Process aluminum with minimum quantity lubrication by the unit or via an external spray pipe on the spindle for tool-friendly use.



5-axis spindle

DRIVE5 5-axis spindles with up to 18.5 kW power and a controlled spindle speed of up to 24,000 rpm for a high torque even at low engine speeds.



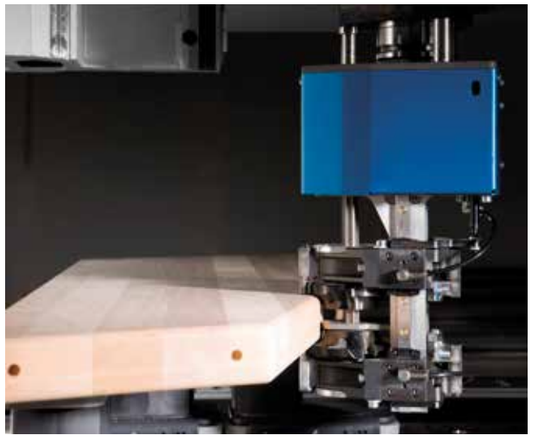
sensoFlex tracing system

- Perfect workpiece quality – the traced spindle equalizes all uneven areas and tolerances
- Full flexibility as tracing can be used for various tools



DRIVE5+ five-axis milling spindle

Contour-shaped workpiece processing with a high part height thanks to a Cartesian arrangement, and high-performance milling thanks to spindles with double-sided bearings up to 18.5 kW.

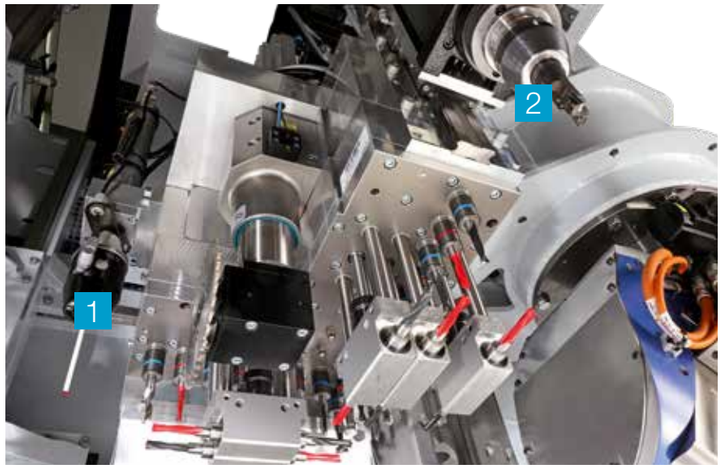


Pneumatic interface

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.

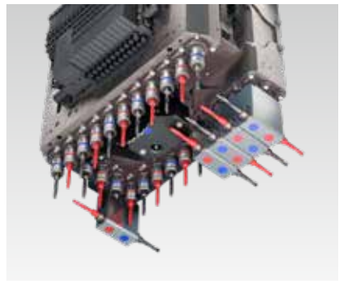
HOMAG drilling technology
The best of the best

High-speed drilling technology, patented 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.



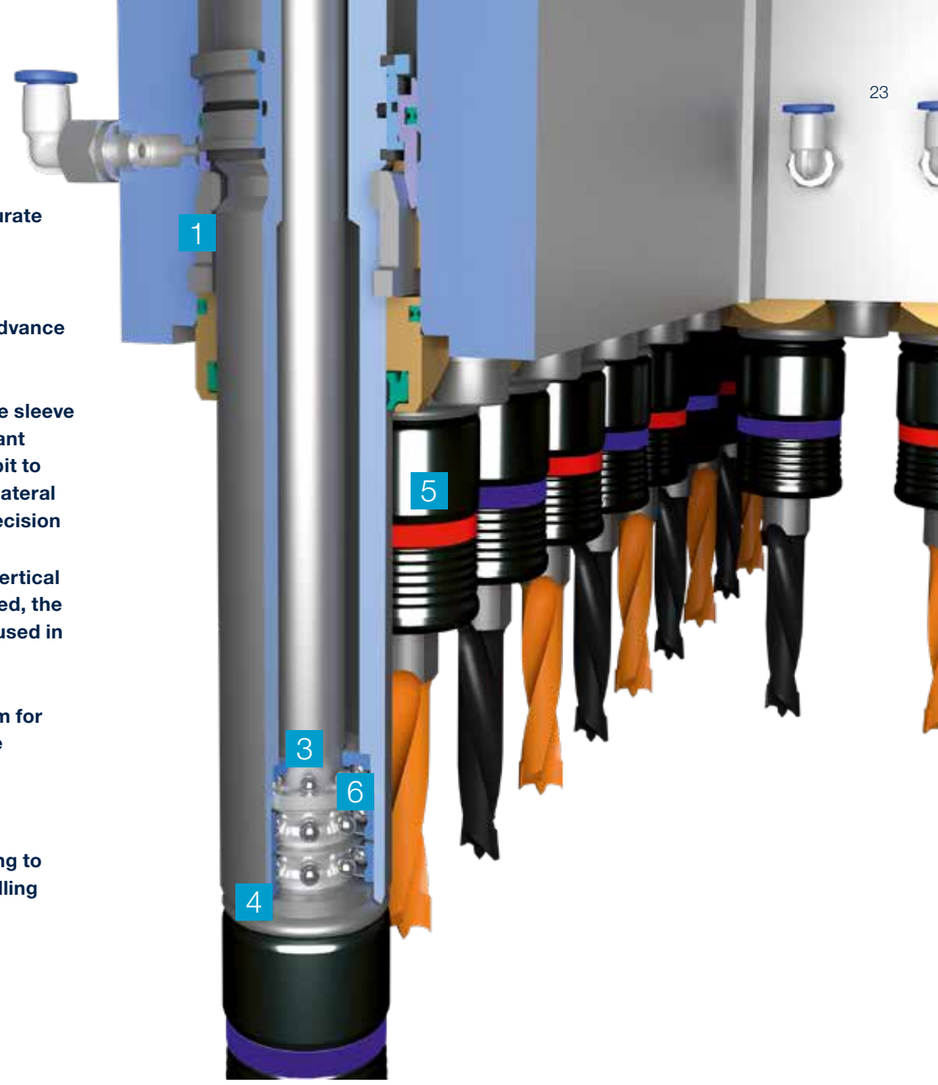
1 **Measuring device to identify the relevant actual dimensions in X, Y, Z with automatic offset correction in the processing program.**

2 **Additional trimming spindle**



Multi-Processing Unit (MPU)

The Multi Processing Unit can be rotated by 360° in an infinitely variable manner. For this reason, both the saw and all 20 vertical spindles and 10 horizontal spindles can be used at any angle. An optional trimming spindle attachment saves time on tool changes and increases productivity.

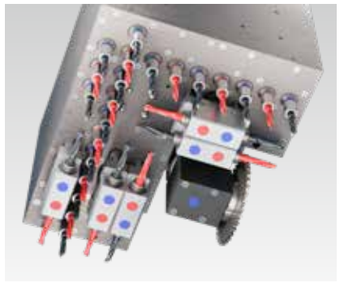


1. **Spindle lock for accurate drilling depth**
2. **Dual-effect cylinder: pneumatic spindle advance and return stroke**
3. **Large diameter of the sleeve and short and constant distance of the drill bit to the bearing for high lateral stability and high precision**
4. **Vertical sleeve: the vertical drill sleeve is extended, the drilling spindle is housed in the sleeve**
5. **Quick-change system for tool-free drill change**
   Alternative: Weldon changing system
6. **Separate axial bearing to absorb the direct drilling forces**



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
- Groove 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
- Groove saw Ø 125 mm (0°/90°)



Drilling gear V36/H4X2Y

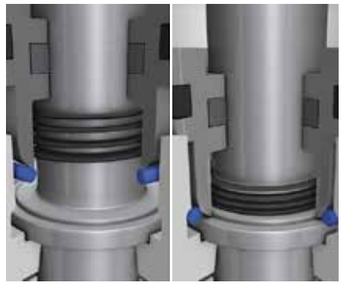
- 42 drilling spindles [high speed 7500]
- 36 vertical drilling spindles
- 4 horizontal drilling spindles in X
- 2 horizontal drilling spindles in Y
- Groove saw Ø 125 mm (0°/90°)



Weldon changing system for a drill change with tools



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



Automatic spindle lock – patented 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.

Tool changer

Simply flexible. Everything is secure 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.
Our systems with up to 127 (72+32+14+8+1) storage slots ensure fast processing thanks to short change times.





10-slot disk changer piggybacking on the spindle. Tool change during drilling or edge banding. For tools and units with a diameter of up to 180 mm.





72-slot chain changer – high capacity and fast change times thanks to upstream double grippers. Also for machines with double spindle technology for independent access of both spindles to the tool changer.



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



32-slot (24-slot) 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).



An additional pick-up slot for saw blades up to a diameter of 350 mm saves space in the tool changer. Can be freely combined with other tool change systems.



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.

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



Lock-plate routing unit

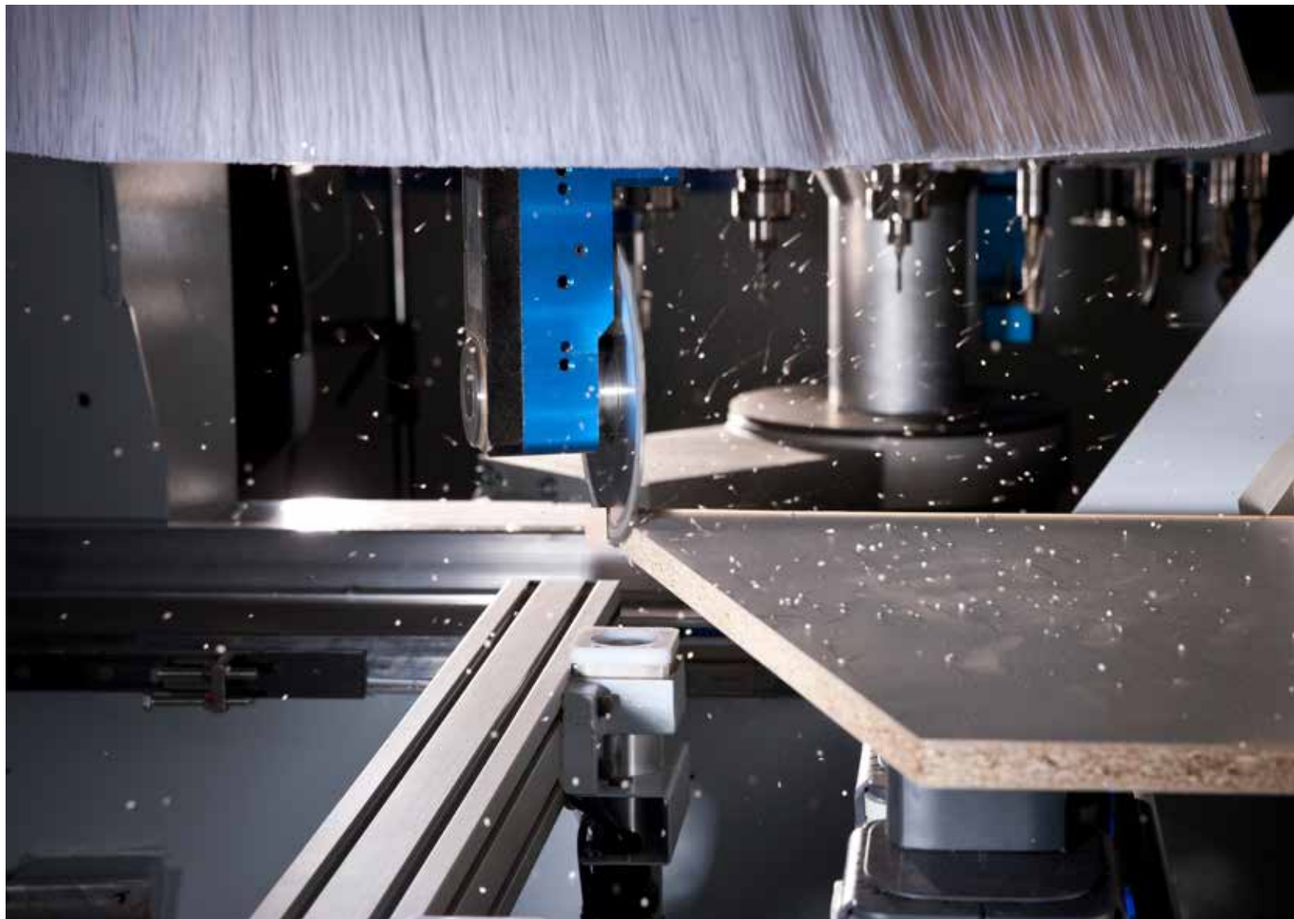


Belt sanding unit



Eccentric sanding unit



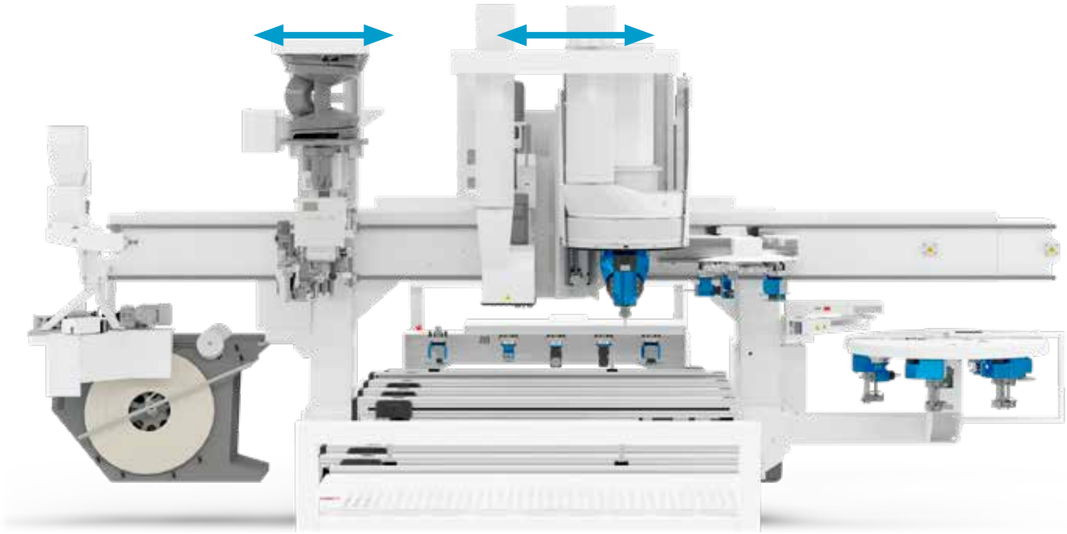


CENTATEQ E-510



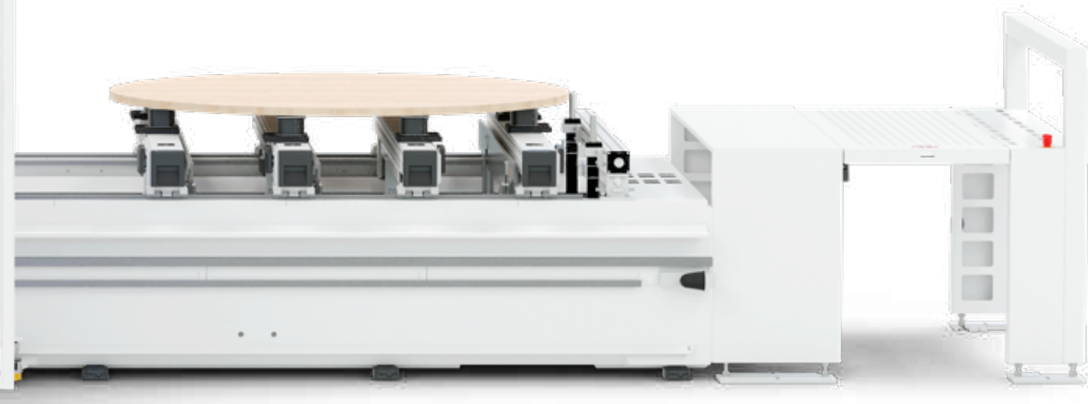
Optimum edge quality
with the simplest operation

HOMAG processing centers with an edge banding unit are true all-rounders. Many work steps from formatting, profiling and drilling to edge banding can be combined on one machine.



High performance in a small space

Independent Y axes on one side of the gantry for the gluing station and trimming spindle/drilling gear.



1. **External preparation of the edges with exchangeable roll plates**
2. **Quick and convenient insertion and changing of edge materials due to the construction 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. **Optimum view into the processing area through a large viewing window.**
5. **Optimal access to the processing units through a large access door**

Perfection
for corners and edges

This CENTATEQ E-510 is a true all-rounder. Formatting, profiling and drilling is supplemented with shaped edge banding, for perfect joints and edge finish.



powerEdge Pro Duo edge banding unit – one unit for all requirements. Zero joint technology and exact 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 of different glue types.



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 for scraper post-processing 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 loosened with a bayonet lock and removed from the machine. This allows you to change the glue color quickly and easily. Alternatively, small quantities can also be filled directly into the application unit.**

2 **Application unit: The application unit can be changed quickly and easily to change the glue color or glue type.**

3 **Fine adjustment via scale: The glue quantity can be set easily and reproducibly via a scale.**

4 **Hot air unit: The intelligent control system of the hot air nozzle improves the contouring of the edge and ensures a constant temperature at the joining point, regardless of feed, whether you're using conventional hot-melt glue or pre-coated edges.**

5 **Press roller: The press roller presses the edge onto the workpiece with program-controlled exact force. In combination with a defined temperature, this ensures perfect workpieces with the simplest programming.**

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.





LED system

Arguably the fastest and safest positioning system for consoles and clamping elements. Everything at a glance: the suction cup type, position, and orientation. Plus other helpful displays such as workpiece size, offsets, and swivel stops.



LASER positioning aid

Vacuum suction units are displayed with a cross-hair laser beam. The workpiece contour can be "moved" as a positioning aid for free-formed workpieces.



Clamping unit

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



powerClamp

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



Consoles

The consoles can be moved over the entire working area. Enables to fix even thin workpieces safely.



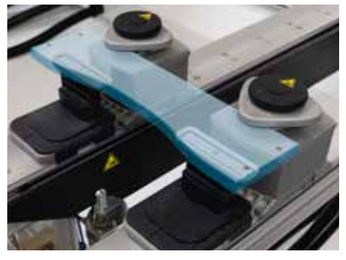
Laser projection

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.



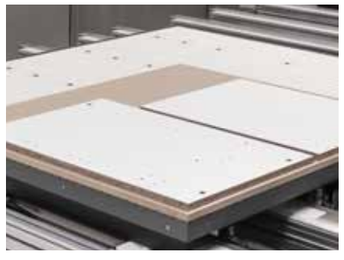
3-stage clamp

Highly rigid 3-stage clamps with a large clamping height for precise complete processing of window and front door parts without subsequent rabbeting.



Multi-clamp

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

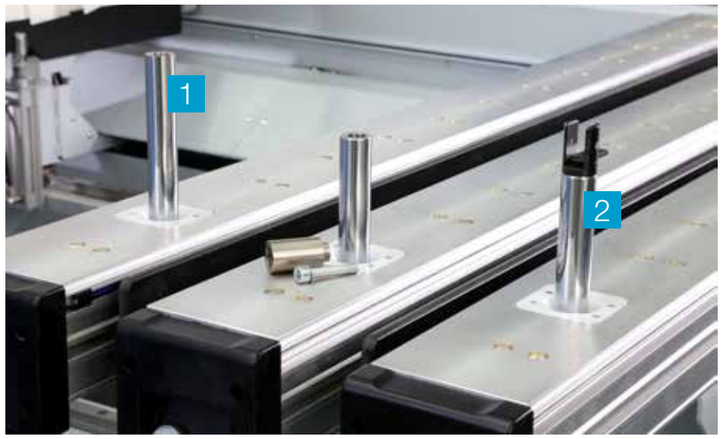


Matrix adapter plate

The 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.

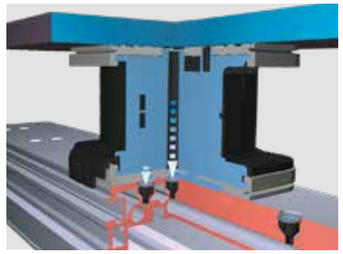
Accurate and safe
with the console table

Thanks to the patented 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**



Dual-circuit vacuum system

Exclusive vacuum clamping technology 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.



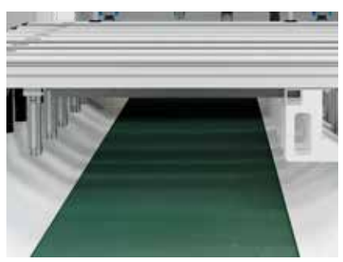
Electronic end position detection

Increased safety thanks to electronic end position detection on all stop cylinders



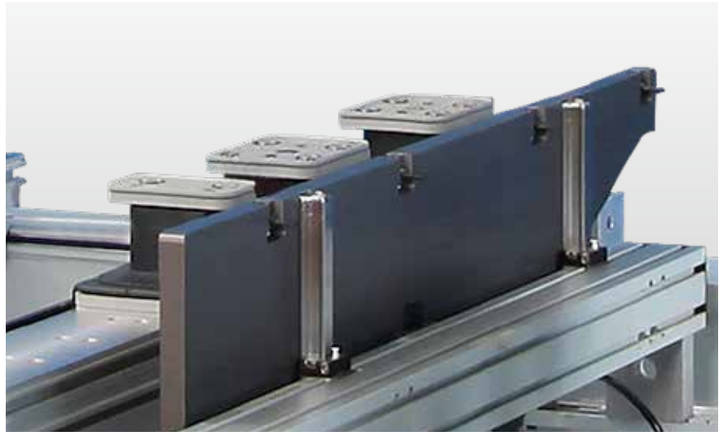
Stop pin for covering layer overhang

With end position monitoring to protect tools, units and machine operating personnel.



Chip conveyor belt

Hidden supply of the console for easy disposal of the offcuts and chips via the chip conveyor belt.



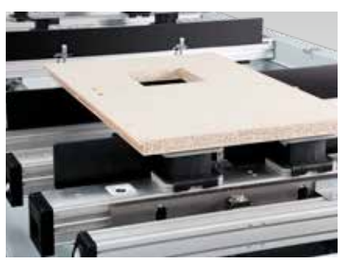
"PURE STOP" side stop

Made of anodized aluminum is guided on linear guides. Precise and solid stop for positioning strips and rounded-off components.



Side stops

Can be moved using the optional clamping lever.



Linear guide and insertion aids

Easy handling via 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 clamp with tactile valve and platforms without cover

The tactile valve allows unoccupied suction cups to remain on the table in the parking position. Unoccupied platforms do not need a separate cover.



Clamping unit

Ensures secure and quick clamping of jambs and scantling.



Robust, stiff, fast, accurate

Precise guidance of the platforms and clamping during machining. Optimum results even when clamping short parts with only one clamping element.



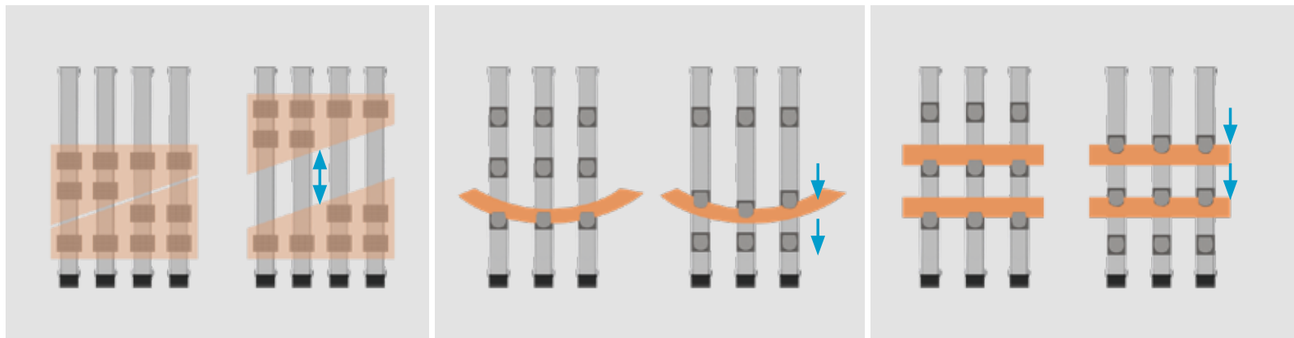
movePart

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



powerClamp pneumatic clamps

Pneumatic clamps for frames with high holding forces with infinitely height adjustment. Magnetic holder for supplements allow special clamping tasks, e.g. for clamping in the fold.



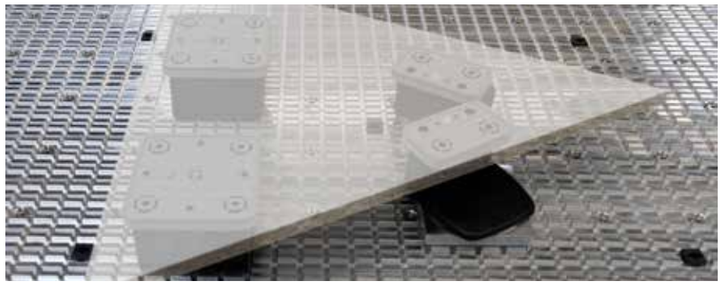
Automatic movement and reclamping within the CNC program

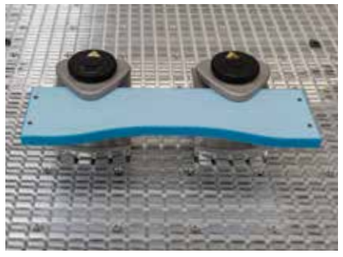
Stair steps can be moved for complete machining after splitting cuts and frame parts can be reclamped automatically.

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.







Multi-clamp

Vacuum-actuated clamping elements for clamping strips and scantlings

Vacuum clamp

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

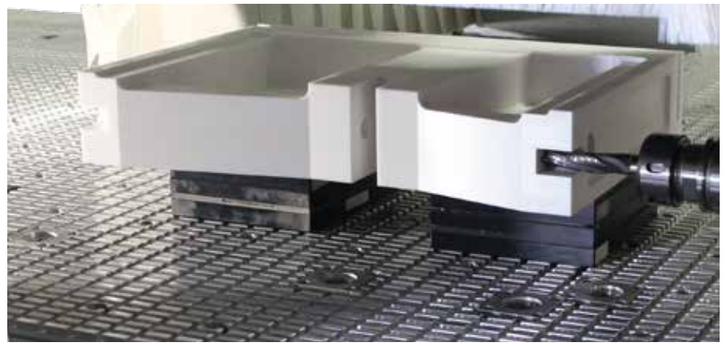


Maxi-Flex system

System base plate for vacuum clamp that can be equipped as required



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



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



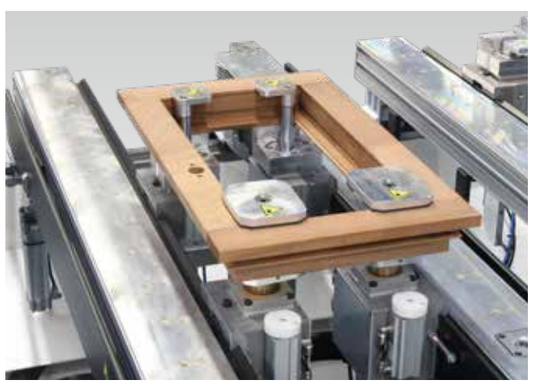


XXXL machine depth

Components up to a width of more than 3000 mm for panel processing for components.

Tailor-made
clamping solutions

Our machining centers offer possibilities that go far beyond those detailed in the catalog. The tables and basic components form the basis for your tailor-made solution. A large number of standard clamping elements, clamping equipment tailored to your specific requirements or your own devices are possible, including components in XXXL format, which can be 10 meters in length or 3 meters in depth.



Frame trimming

Also suitable for traditional frame production: with swivel clamping elements, window casements can be easily inserted, aligned and held.





Clamping device for trims

Vacuum clamping device for a pair of rabbet and decorative trims according to customer design. Mounted on a base plate module.



Clamping device for round pipes

Clamping device for five-axis processing of plastic round pipes.



Block clamp

Adapted block clamping device for round wood elements.



Slim sashes and large profile thicknesses

The HOMAG 3-stage clamping system can also securely and precisely clamp high profiles up to 120 mm (optional 150 mm) and slim sashes.



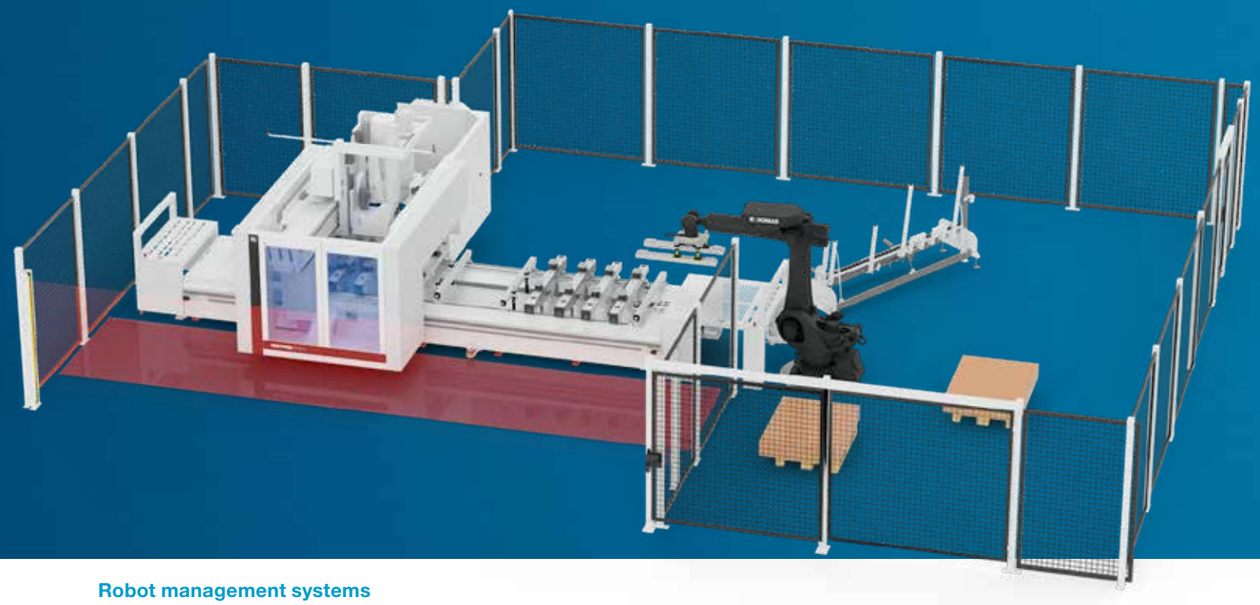
Clamping device for block frames

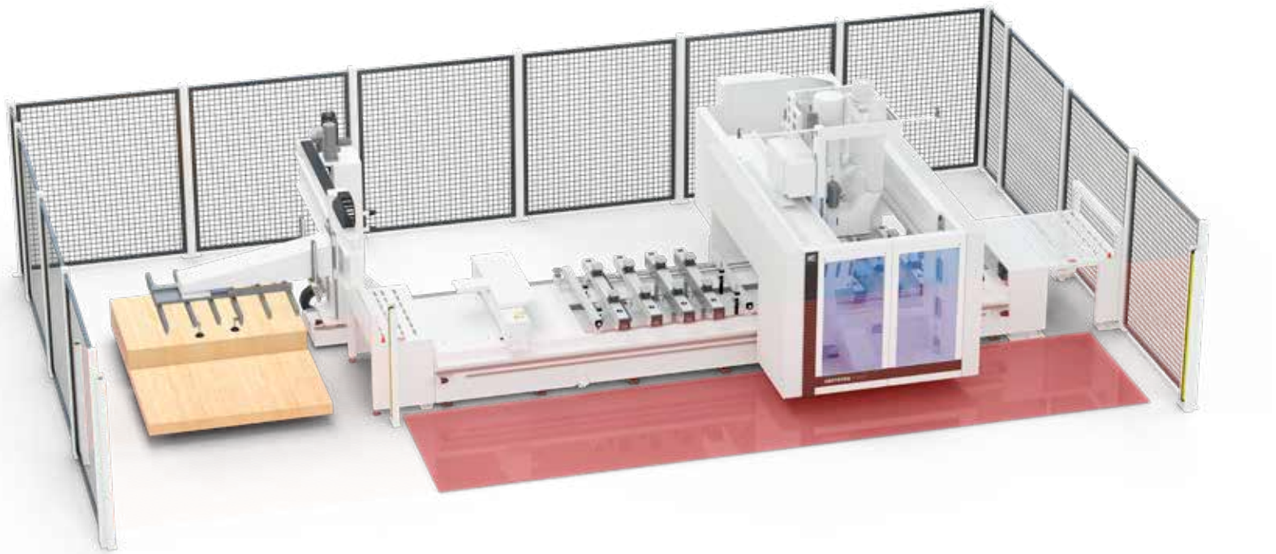
Exact clamping to the reference edge for a pair of block frames.

Automatically better

Made-to-measure production solutions

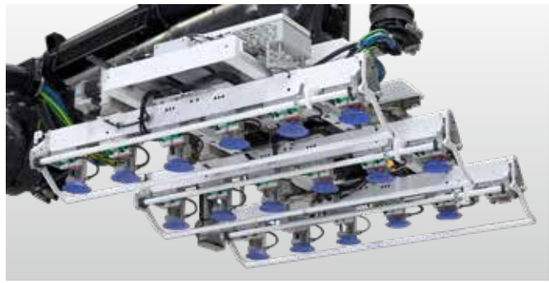
We use intelligent solutions to create manufacturing cells from CNC processing centers, with automatic material handling and specific additional tasks. You therefore make the best use of your machine and achieve the highest quantities. Our basis for this is innovative system technology and many years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

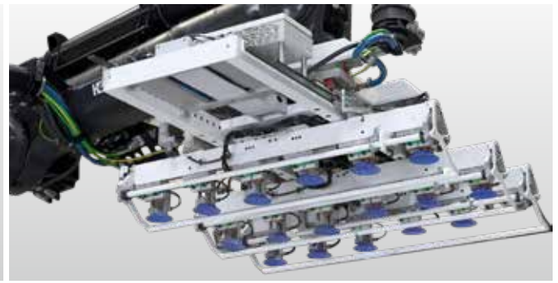




Robot management systems

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.





CNC adjustable traverse with individually controllable suction cups, coupled with compensation.

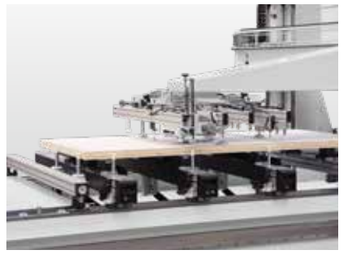
TBA feeder attachment

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.



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.



Precise aligning to the stops and adaption to the milling path of the pre-machining



Align, validate, turn, clean

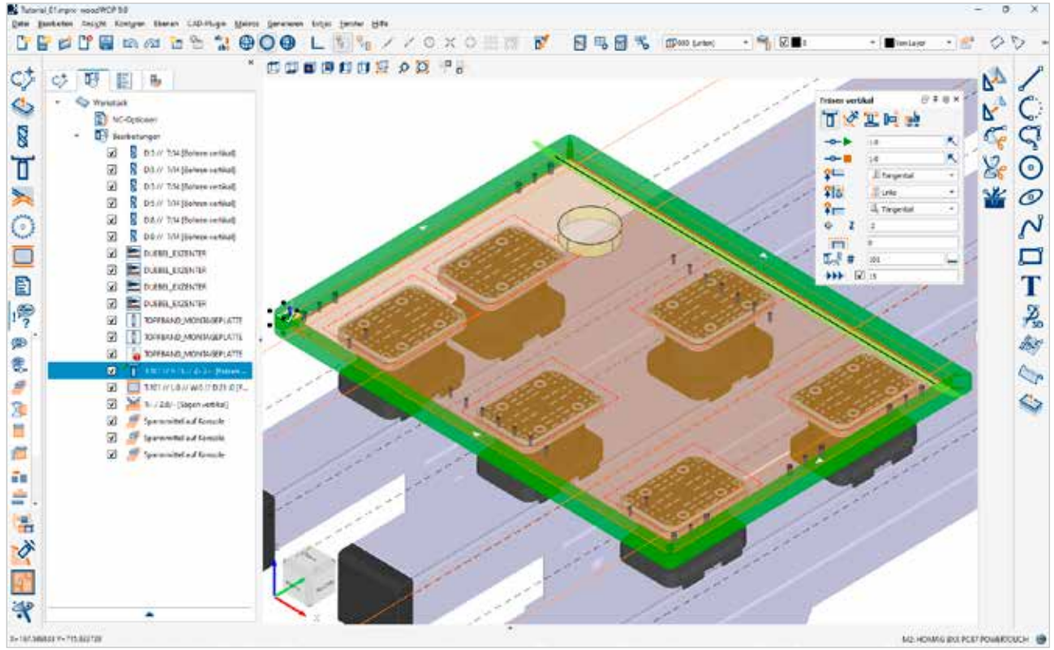
Through free movement of the robot in up to 6 axes and modular configurabilty, additional functions can be easily integrated into the process (e.g. turning function for double-sided machining).

HOMAG software solutions

The basis for simple and efficient operation

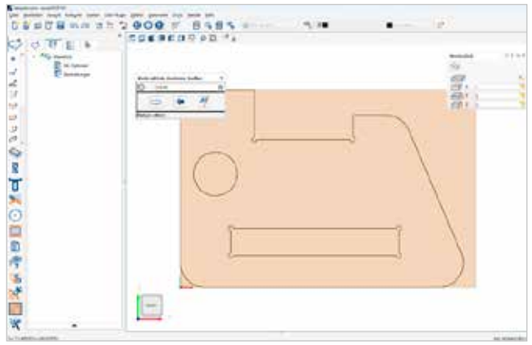
Our processing centers are one thing – the software to operate them conveniently and easily day-to-day is another. HOMAG software and control modules ensure maximum flexibility and operational safety.

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



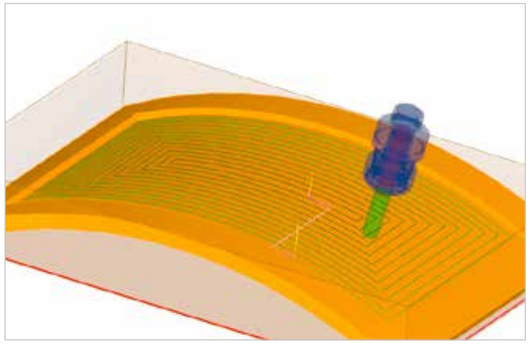
woodWOP – efficient thanks to fast programming

- 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



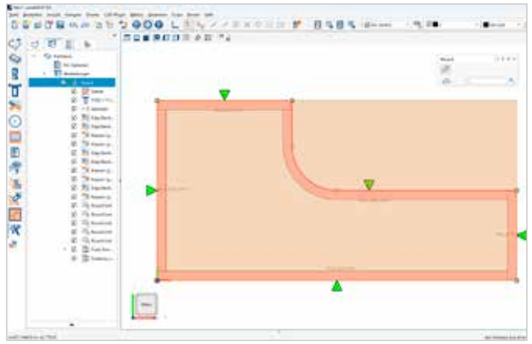
woodWOP CAD-Plugin

- 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



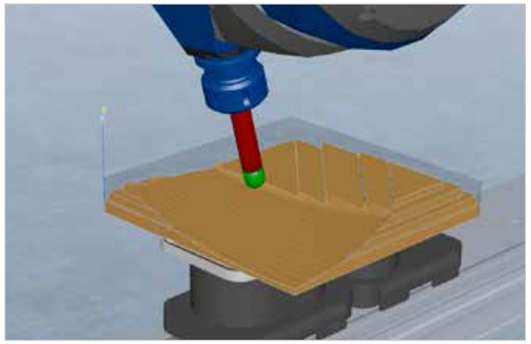
woodWOP CAM-Plugin

- 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



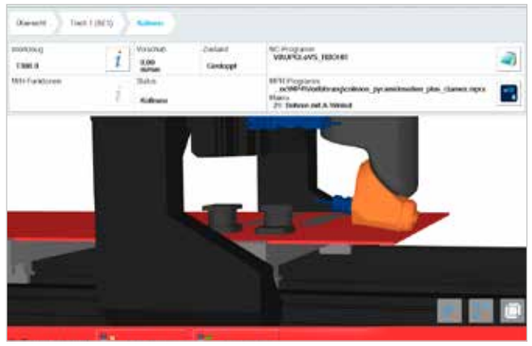
woodMotion – processing simulation of programs

- 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



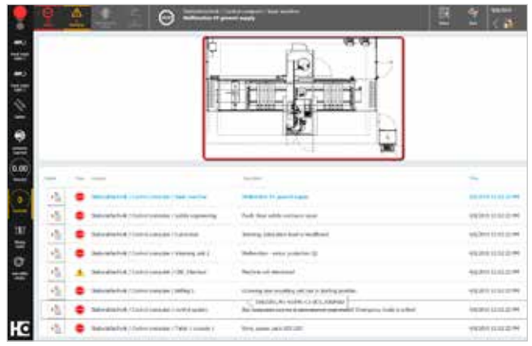
powerTouch PC87 with full touch operation

- 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



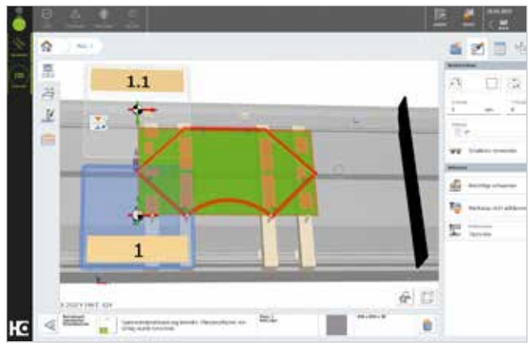
collisionControl – permanent security for your machine

- 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



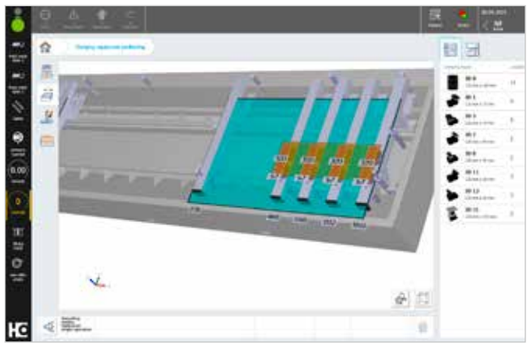
woodScout – help in your language

- 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



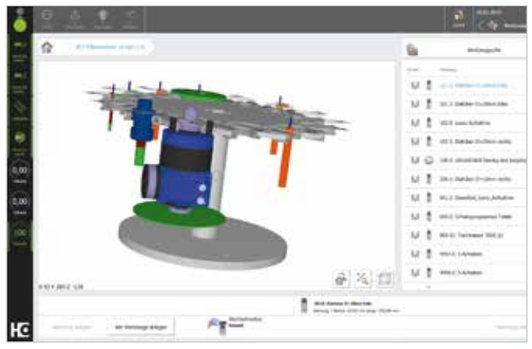
Slot assignment

- 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



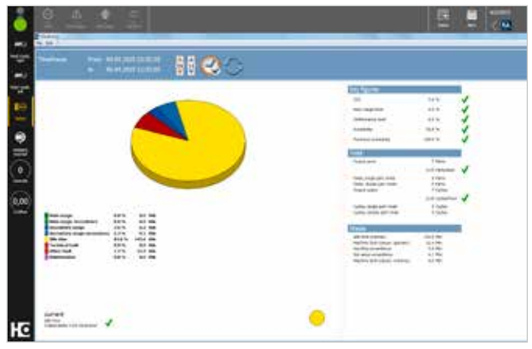
Automatic suction unit recommendation for workpiece or entire table

- 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

INFO POINT

Discover more. Make better decisions.
Scan the QR codes to access additional content for this brochure, including videos, real-world examples, digital solutions, spare parts access, and services from HOMAG – anytime, right on your mobile device.

SCAN OR CLICK

Product Videos
See, understand, decide

See for yourself: Our videos demonstrate features, applications, and concrete benefits – in a realistic, practical, and solution-oriented way.

Product Insights
The content of the brochure

Discover in-depth information – for a better understanding and greater confidence in your decisions.

Digital Solutions from HOMAG
Better overview. Greater efficiency.

Streamline your processes with minimal effort: Our apps are the perfect starting point – they provide transparency, reduce workload, and boost your productivity in the long term.

HOMAG eShop
Spare parts without downtime

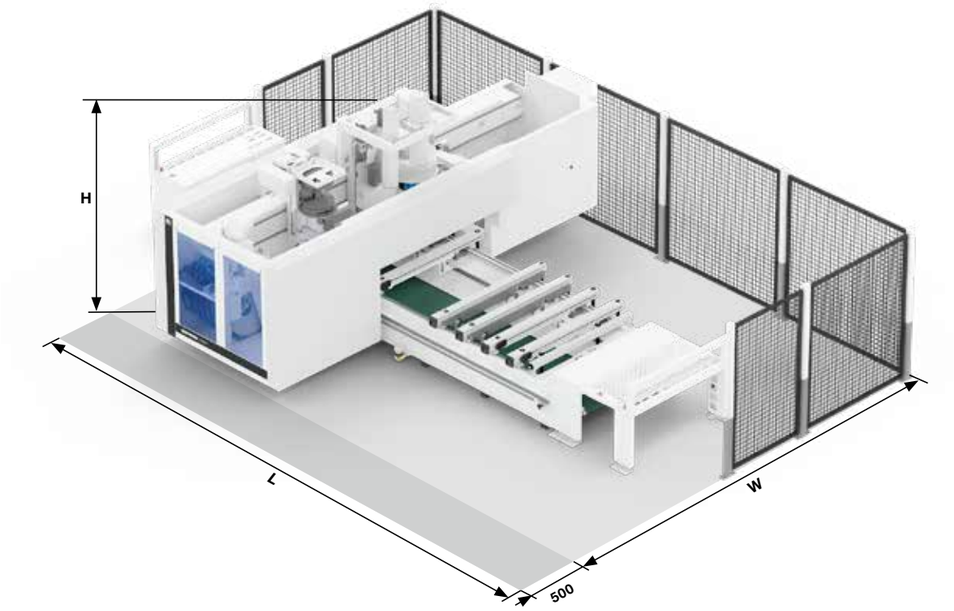
Save time and avoid downtime: Find genuine replacement parts quickly, order them with confidence, and take advantage of attractive price savings.

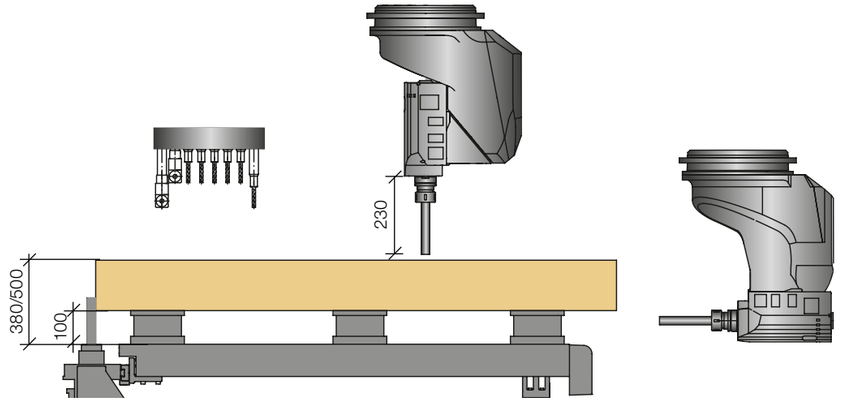
HOMAG INTELLIGENCE
Systematically leverage competitive advantages

BRAND NEW: Get more out of your data: Intelligent networking of machines and processes for better decisions and measurably higher efficiency. Unique in our industry, this solution optimizes the data flow end-to-end.

Personalized Consultation
Solutions that fit

We have a proven track record of having the most extensive and longest-standing experience in the market. Talk to our experts: fast, direct, and personalized – we'll help you find the best solution.





WORKING DIMENSIONS

Y = workpiece width		CENTATEQ P/E-510/610			CENTATEQ E-510	
		A = 0° with tool diameter 25 mm	A = 90° with tool length 230 mm/ with all units	A = 90°/with all units	Edge gluing and post-processing	
		Rear stop	Rear stop	Front stop	Rear stop	Front stop
/15	mm/inch	1550 / 61.0	1325 / 52.2	1325 / 52.2	1550 / 61.0	1325 / 52.2
/19	mm/inch	1900 / 74.8	1675 / 66.0	1675 / 66.0	1900 / 74.8	1675 / 66.0
/22	mm/inch	2250 / 88.6	2025 / 79.7	2025 / 79.7	2250 / 88.6	2025 / 79.7
/32	mm/inch	3250 / 128.0	3025 / 119.1	3025 / 119.1	–	–

X = workpiece length		A = 90° with tool length 140 mm/with all units	
		Individual processing	Shuttle machining*
/33	mm/inch	3300 / 129.9	1025 / 40.4
/42	mm/inch	4240 / 166.9	1495 / 58.9
/60	mm/inch	6000 / 236.2	2375 / 93.5
/74	mm/inch	7400 / 291.3	3075 / 121.1

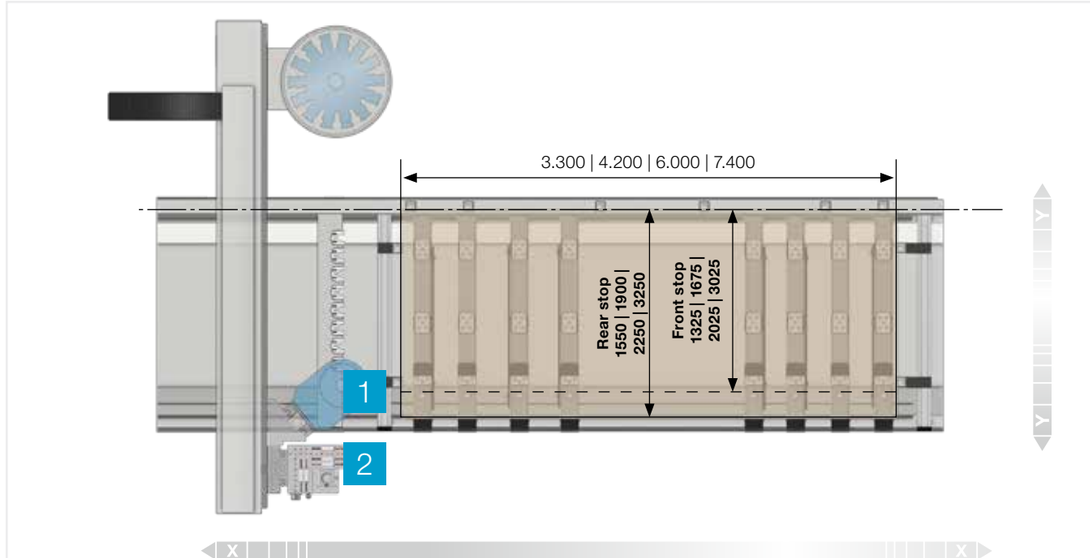
Z = workpiece thickness		From console	with clamping equipment height = 100 mm
510	mm/inch	380 / 15.0	280 / 11.0
610	mm/inch	500 / 19.7	400 / 15.7

INSTALLATION DIMENSIONS

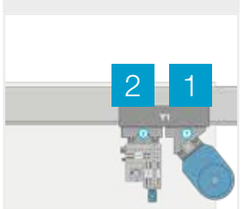
Installation length [mm/inch]			Installation depth [mm/inch] with 32-slot tool changer				Installation height [mm/inch]	
L			W				H	
	510	610		P-510	P-610	E-510		
/33	7730 / 304.3	7730 / 304.3	/15	5660 / 222.8	5660 / 222.8	6450 / 253.9	P/E-510	2960 / 116.5
/42	8670 / 341.3	8670 / 341.3	/19	6010 / 236.6	6010 / 236.6	6800 / 267.7	P-610	3430 / 135.0
/60	10430 / 410.6	10430 / 410.6	/22	6360 / 250.4	6360 / 250.4	7150 / 281.5		
/74	11830 / 465.7	11830 / 465.7	/32	7360 / 289.8	–			

* Dimension with central division.

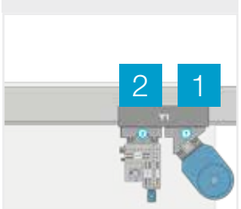
Technical data and photographs are not binding in every detail. We reserve the right to make changes in the course of further development.



P-510



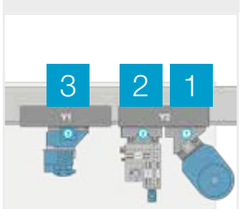
P-610



P-510 | DOUBLE SPINDLE



E-510



1 **Trimming spindle**

2 **Drilling gear**

3 **Edge banding unit**

As at 09/26 | Subject to technical change, print errors and mistakes. Images may show special features.

HOMAG Group AG
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www.homag.com

YOUR SOLUTION