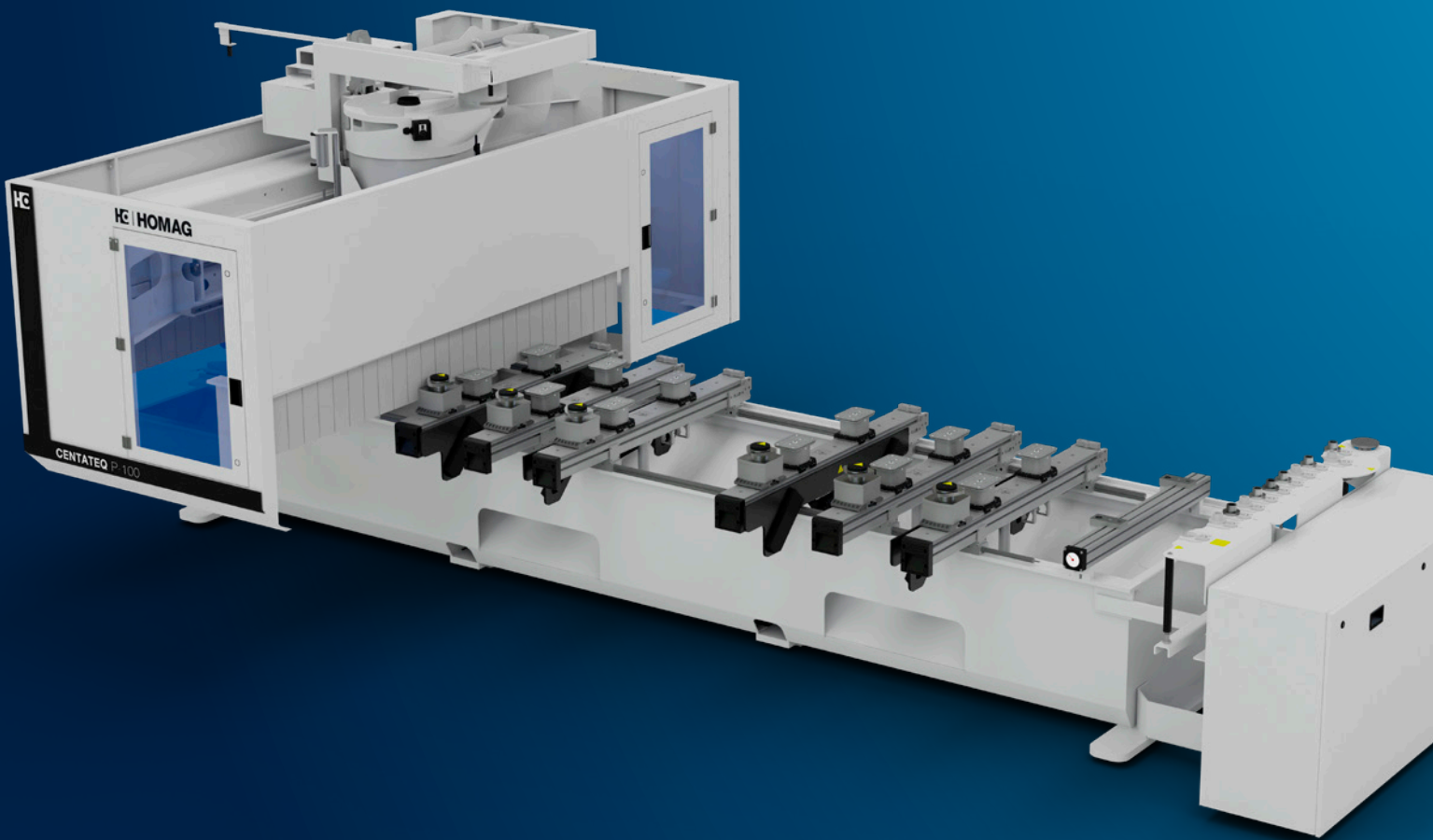


CENTATEQ P-100

All in One Powerful CNC Processing Centre.
3-4 & 5 axis range | CE Version





CENTATEQ P-100 – small space, big possibilities

The CENTATEQ P-100 is a highly efficient, foundational range CNC Processing center available to perform 3-4 & 5 axis applications, Machine is offered with different lengths (8- & 10-feet CNC Processing).

YOUR SOLUTION

CONTENTS

04	Highlights
05	The models
06	Concept
08	Quality
10	Applications
12	HOMAG drilling technology
14	Routing spindles
16	Tool changer systems
18	Aggregates
22	Console table
26	Software
30	Safety
32	Technical data CE
34	Apps und digitale Assistenten
35	Life Cycle Services

CENTATEQ P-100 – Good for all axes

The CENTATEQ P-100 is a highly efficient, foundational range CNC Processing center available to perform 3-4 & 5 axis applications, Machine processing length is 10 feet, can perform Routing up to 1.600 mm in Y direction and a software optimized working field in all the variants.

Its automatic tool changer and integrated tool management system optimizing CNC operations and maximizing output. With a strong focus on precision and durability, this machine is built to deliver top-notch results consistently.

With its compact design and efficient features, the CENTATEQ P-100 is the perfect choice for small to medium-sized cabinet furniture workshops, structural and architectural establishments processing Solid wood and similar composites.

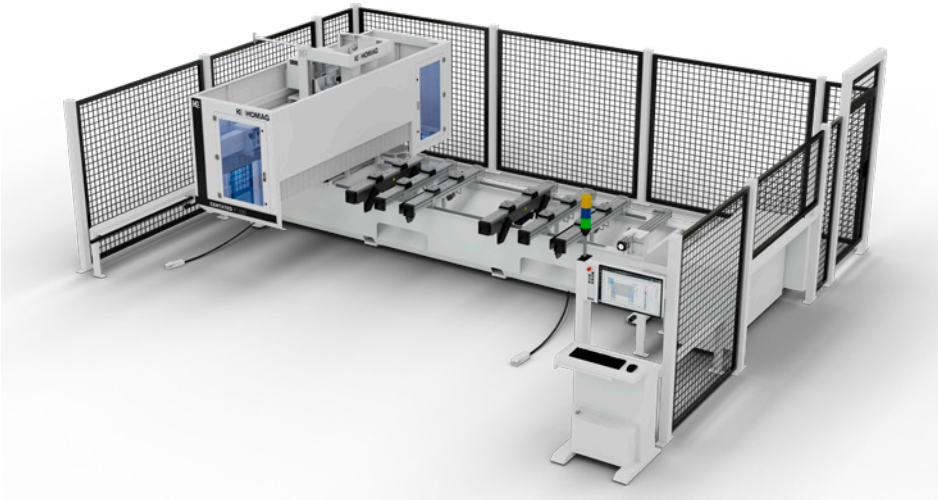
It provides reliability, productivity, and operator-friendly functionality while minimizing space requirements.

HIGHLIGHTS

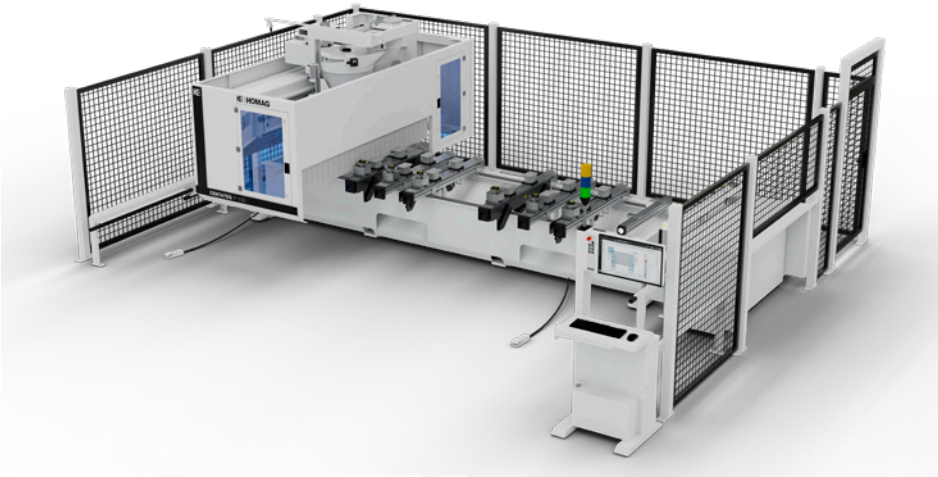
- Suitable for 3-4 & 5 axis Applications
- Versatile processing center with 4-field loading
- Routing up to 1.600 mm in Y direction and a software optimized working field
- Flexible and customizable for multiple configurations
- Variable processing speed and configurable drill blocks with grooving saw
- Quick and effortless positioning of the vacuum cups
- Automatic spindle clamping system for precise depth
- Integrated access to woodWOP with a massive collection of CNC

Bet that a model of the CENTATEQ P-100 is just right for you....!

The requirements of the market are diverse, and so are our solutions. For the implementation of individual wishes, we offer very flexible configurable models. Choose exactly what suits you from a wide range of tables, technical configurations and safety technology.

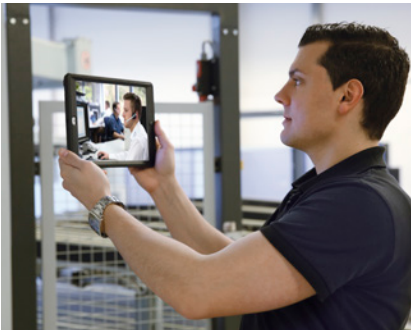
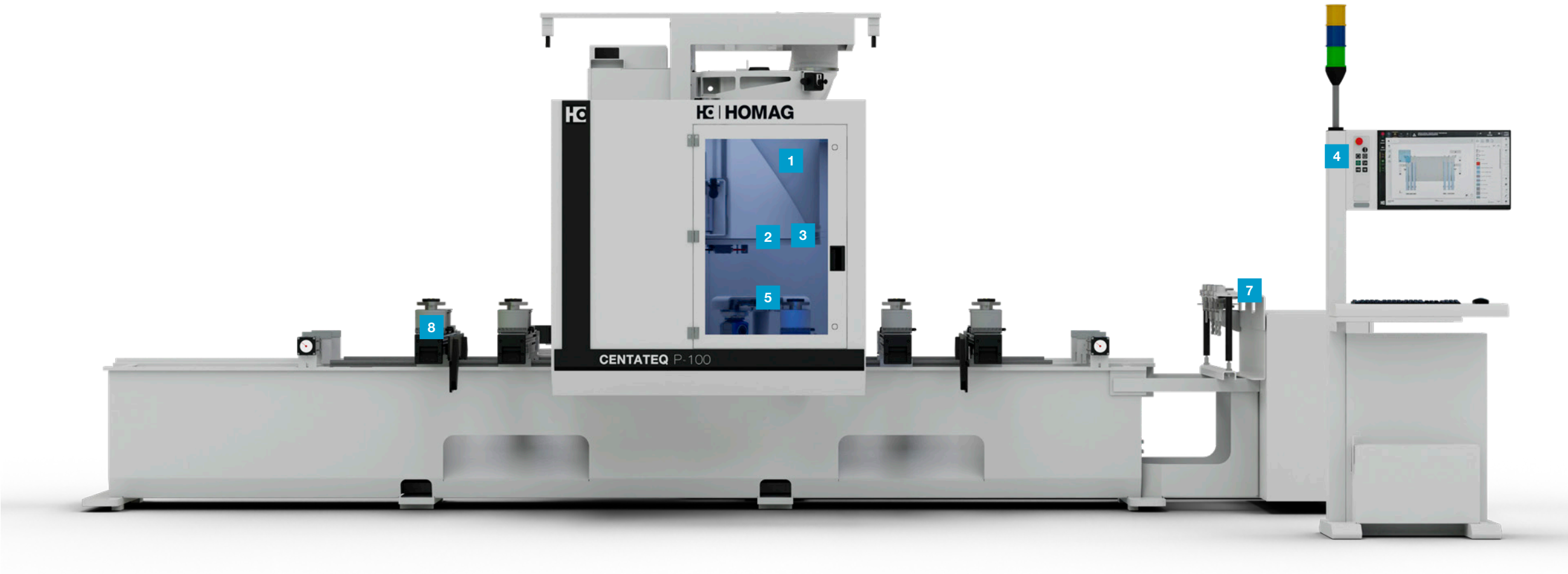


Model 3-4 Axis:
3-4 Axis configuration with X- Working length 3.250 mm

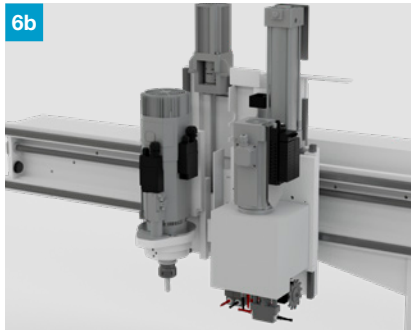
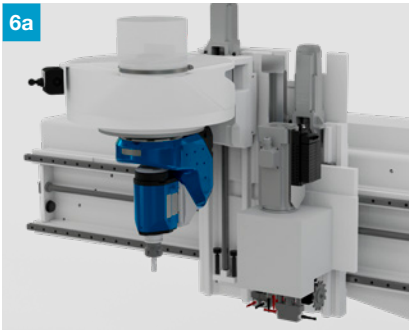


Model 5 Axis:
5 Axis configuration with X- Working length 3.100 mm

The P-100 Concept – 3-, 4-, and 5-axis technology



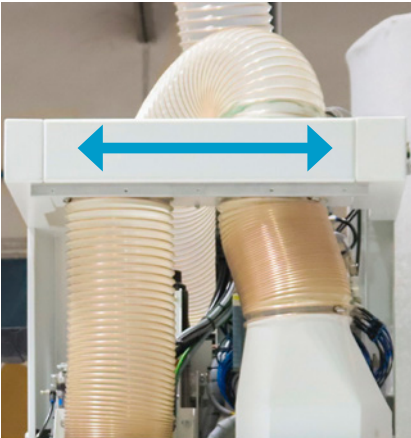
Smart support for support and maintenance using the service pad and display of machine status on smart devices.



- 1 Optimal view with a large viewing window to ensure maximum protection for the operator
- 2 Router spindle
- 3 Configurable 3 different capacity drill blocks
- 4 Moveable control panel (5 m) with PowerTouch2
- 5 8 station, traveling rotary tool changer
- 6 a) Z1 and Z2 axis: 5 axis machine
b) Single Z axis: 3-4 axis machine
- 7 a) Option: 10 station linear fixed tool changer + tool pickup station for 5 axis machine only
b) Option: 5 station linear tool changer + tool pickup station
- 8 Number of consoles: 6

Quality: today for tomorrow

HIGH STANDARDS: You require a suitable basis in order to provide highest performance. We rely on high-quality and proven components, so that you are perfectly equipped right from the beginning.



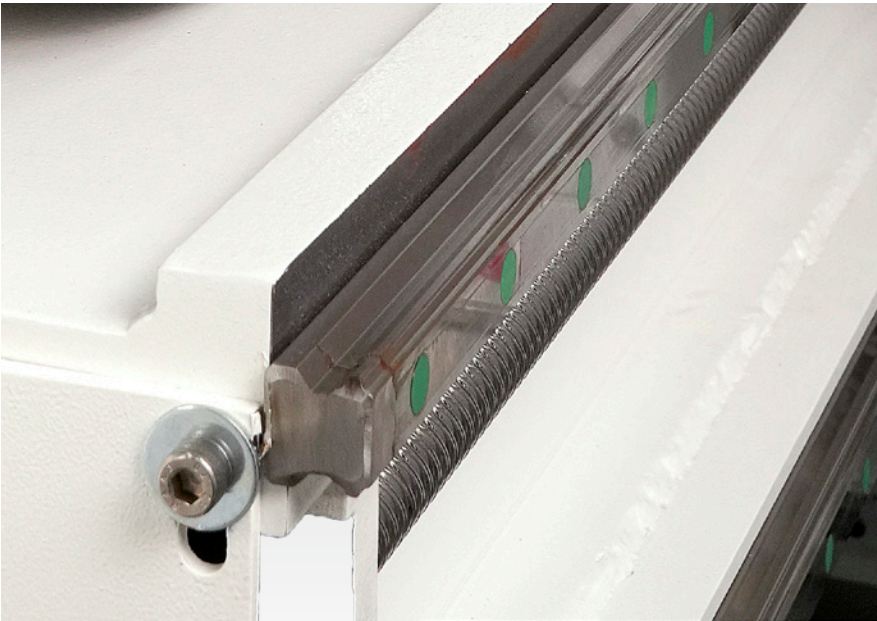
Controlled dust extraction channel
The moveable channel realizes a very efficiency dust extraction – active where it is needed



Sealed energy cable
Secure and protected cable guide (X-Y)



Button for program start
Each one at the left and right hand stop profile act as program start for the processing.



Linear guiding system

- Long-lasting linear guiding system with cover and plastic sealings
- High-quality protection against dust and dirt
- Provides sustainable exactness



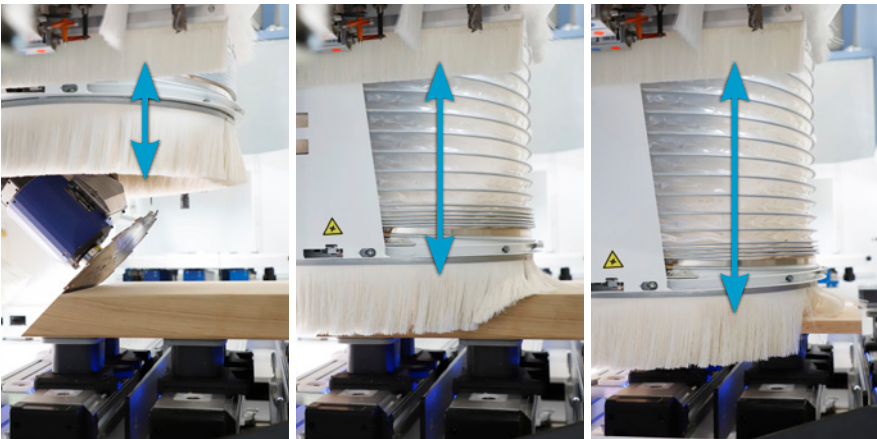
Operator terminal

- powerControl with powerTouch
- 24" Full-HD multitouch display
- USB frontside bus
- Ethernet connection 10/100 Mbit
- Inklusive flexible mobile handheld terminal for easy operation

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 5-Axis 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 can be adjusted in steps and adapts to the workpiece thickness.



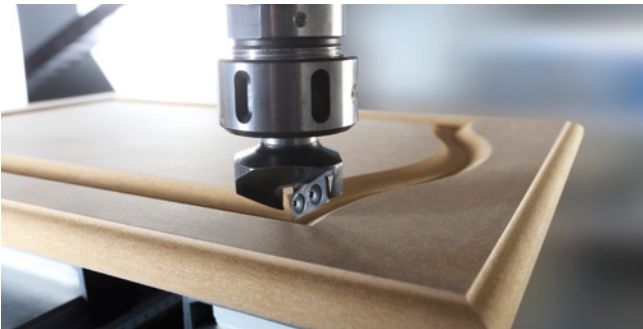
ecoPlus – energy saving function

- 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%)

Whatever you want – The world of Flexibility

Deciding in favour of a HOMAG machine means investing in a highly efficient processing center with the capability to fulfil wide-ranging different manufacturing requirements. Each machine is a complete system guaranteeing maximum output and efficiency every time – no matter how individual your production requirements are.

3- and 4-axis applications



Profiling furniture fronts



Routing lock cases



Cutting mitre cuts

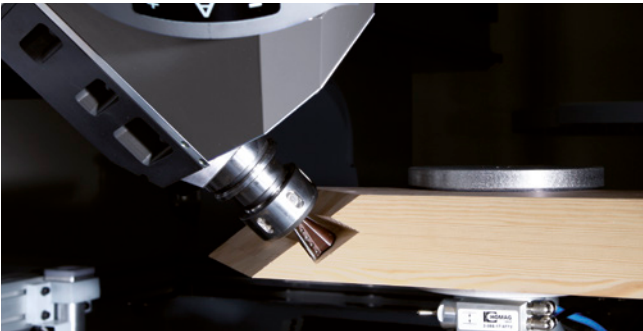


Cutting recesses for connecting fittings

5-axis applications



Mitre cut with high cutting depth for frames



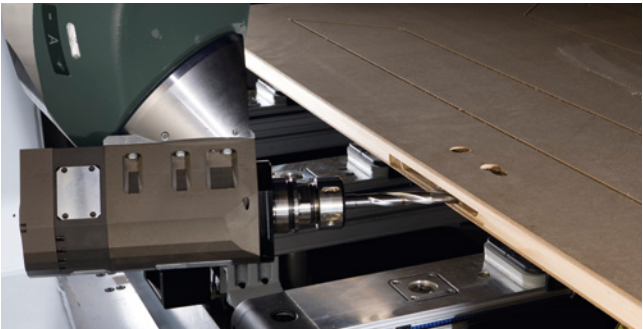
Routing of a dovetail joint for upright / transom constructions



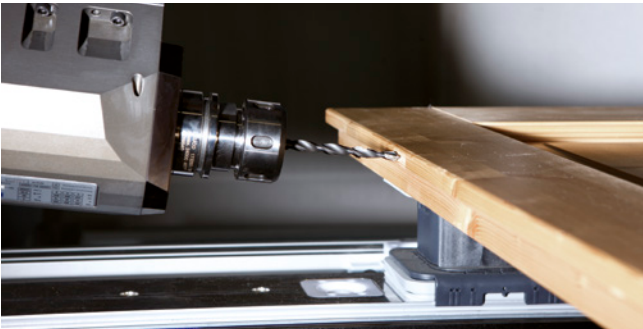
Chamfer trimming on a table top



Square corner routing for a glass rebate



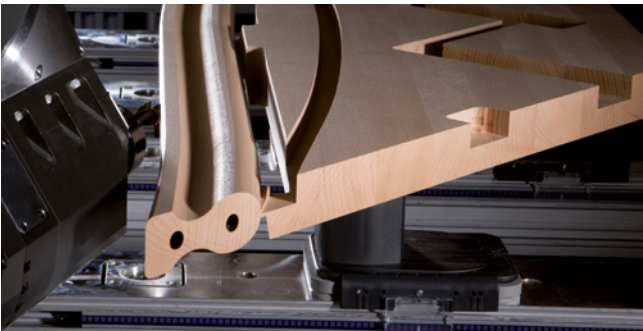
Lock case routing



Step drilling for drill-in hinges



Precise, splinter-free mitre cuts

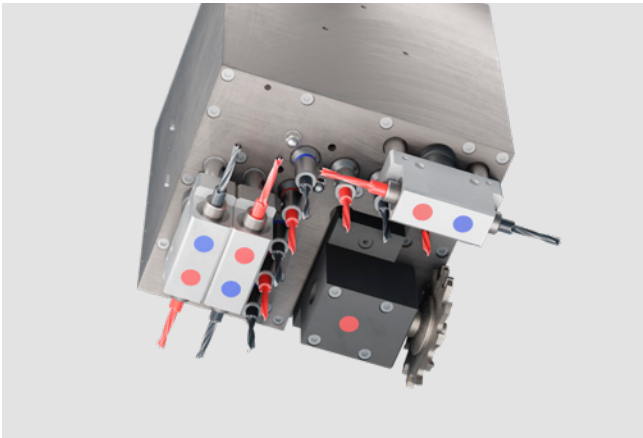


Holes for piling at narrow angles

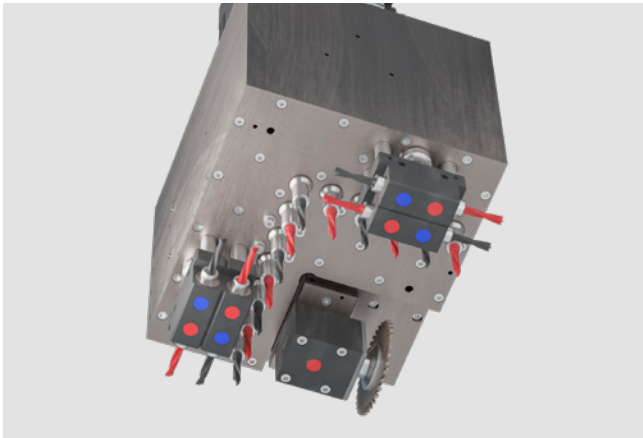
HOMAG drilling technology: The best of the best

High-speed drilling technology, patented clamping of the spindle and Weldon Change System for tools. Precise drilling, fast cycles, maintenance-free and durable construction.

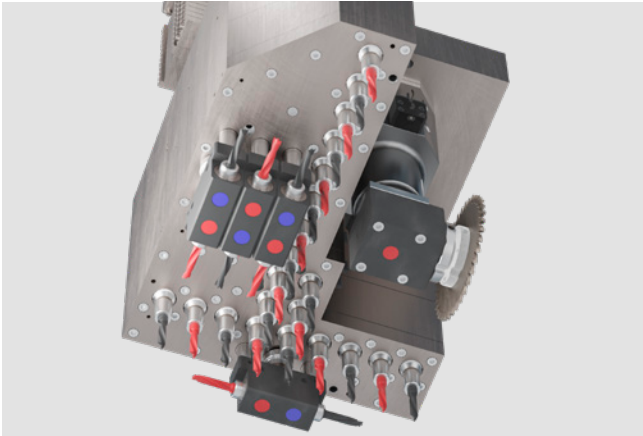
Additional optional attachments expand the machine's range of applications.



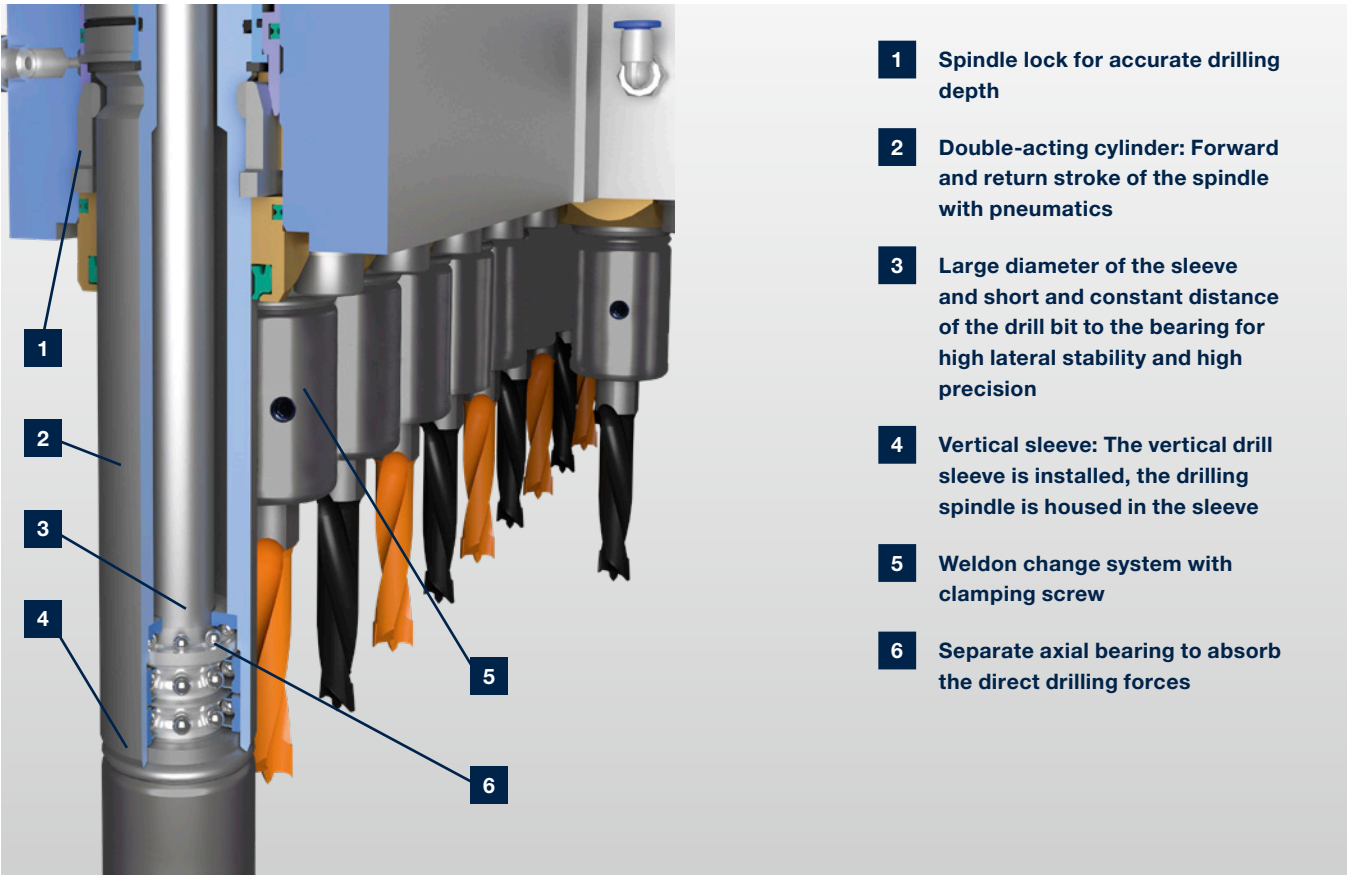
- Drilling gear V8/H6GX** (option)
- 14 drilling spindles [high speed 7.500]
 - 8 vertical drilling spindles
 - 4 horizontal drilling spindles in X
 - 2 horizontal drilling spindles in Y
 - Groove saw Ø 100 mm in X Direction



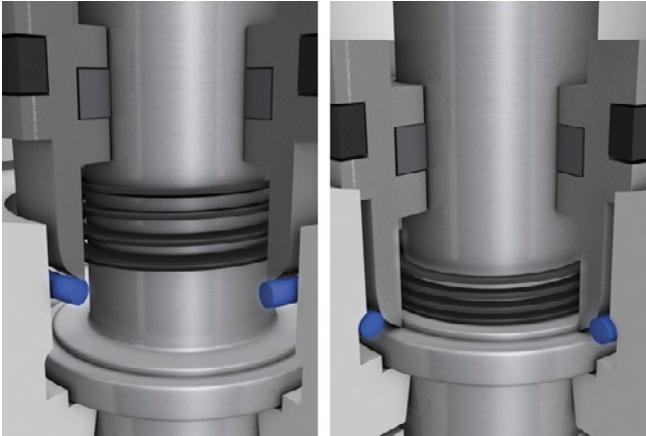
- Drilling gear V12/H8GX** (option)
- 18 drilling spindles [high speed 7.500]
 - 12 vertical drilling spindles
 - 4 horizontal drilling spindles in X
 - 4 horizontal drilling spindles in Y
 - Groove saw Ø 100 mm in X Direction



- Drilling gear V21/H8GXY** (option)
- 29 drilling Spindles [high Speed 7.500]
 - 21 vertical drilling spindles
 - 6 horizontal drilling Spindles in X
 - 2 horizontal drilling Spindles in Y
 - Groove Saw Ø 125 mm (0/90°)



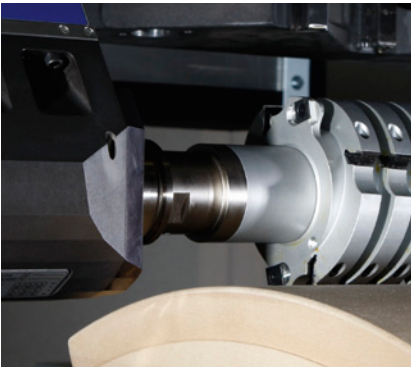
Weldon change system for a drill change with tools



Automatic spindle lock
Patented system for a drilling depth that is always accurate for numerous different materials. With speeds from 1.500–7.500 rpm for high feed speeds or short drill cycles.

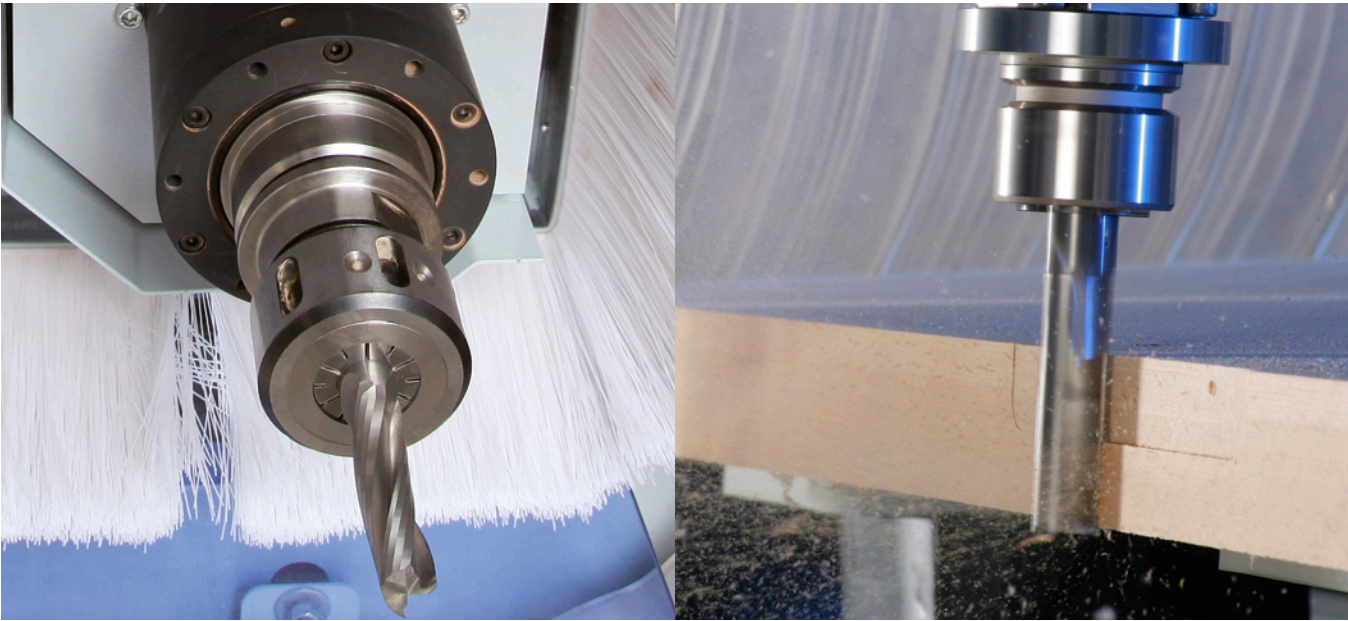
Main spindle technology

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.

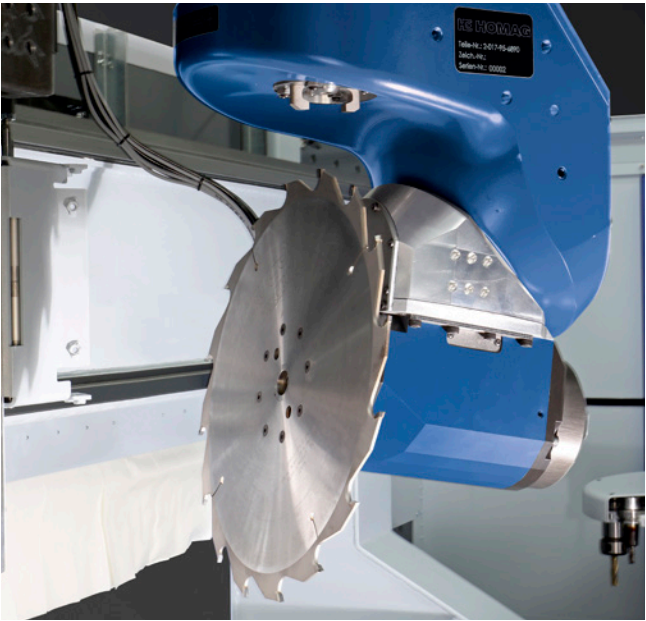


Spindle sensor
Routing spindles with hybrid storage offer a long service life. An additional vibration sensor (option) detects tool unbalances and protects the spindle against overloading, due to high feed speeds for example.

Routing spindle



- Configuration**
- Option: powerful 12 HP (9 kW) HSK routing spindle
 - Option: spindle with interface for C axis



Option: The smart DRIVE5CS 5-axis-head
Compact design with short power transmission. Comprehensive technology on small space without limits regarding the processing range. Liquid-cooled spindle for efficient operations. The short design provides more space for processing (e.g. with a 350 mm saw blade, under the hood).

Tool changer systems

Simple flexibility

All neatly stored away for quick access. Tool changers provide the basis for the flexible deployment of tools and units, also for large saw blades or heavy processing tools. Right from the beginning you get up to 18 tool changing places.



Option: Linear changer

- 1 Tool change magazine, with 10 slots and integrated tool transfer station, laterally mounted.
- 2 One slot is prepared to accommodate a saw with a diameter of 350 mm.

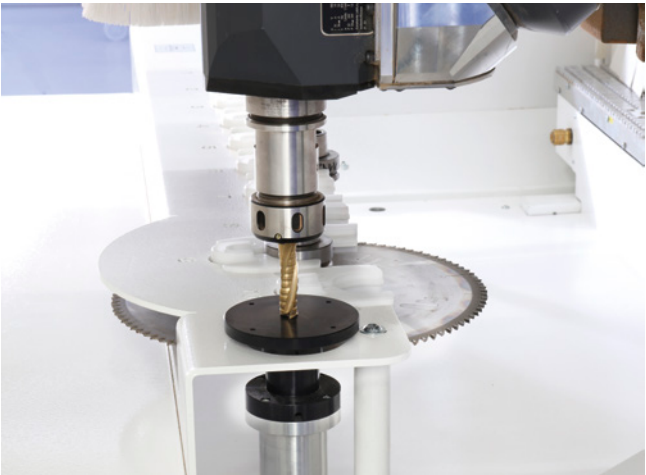


Option: Additional 8-fold tool changer



Tool pick-up station

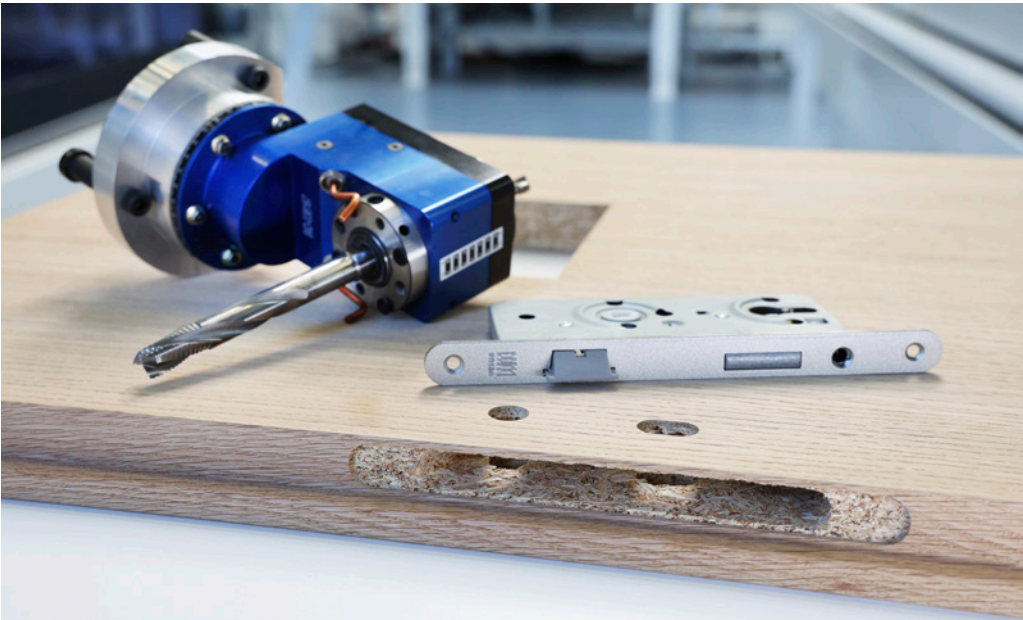
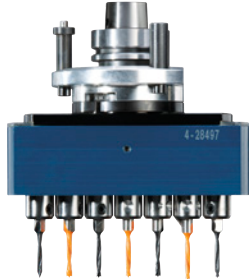
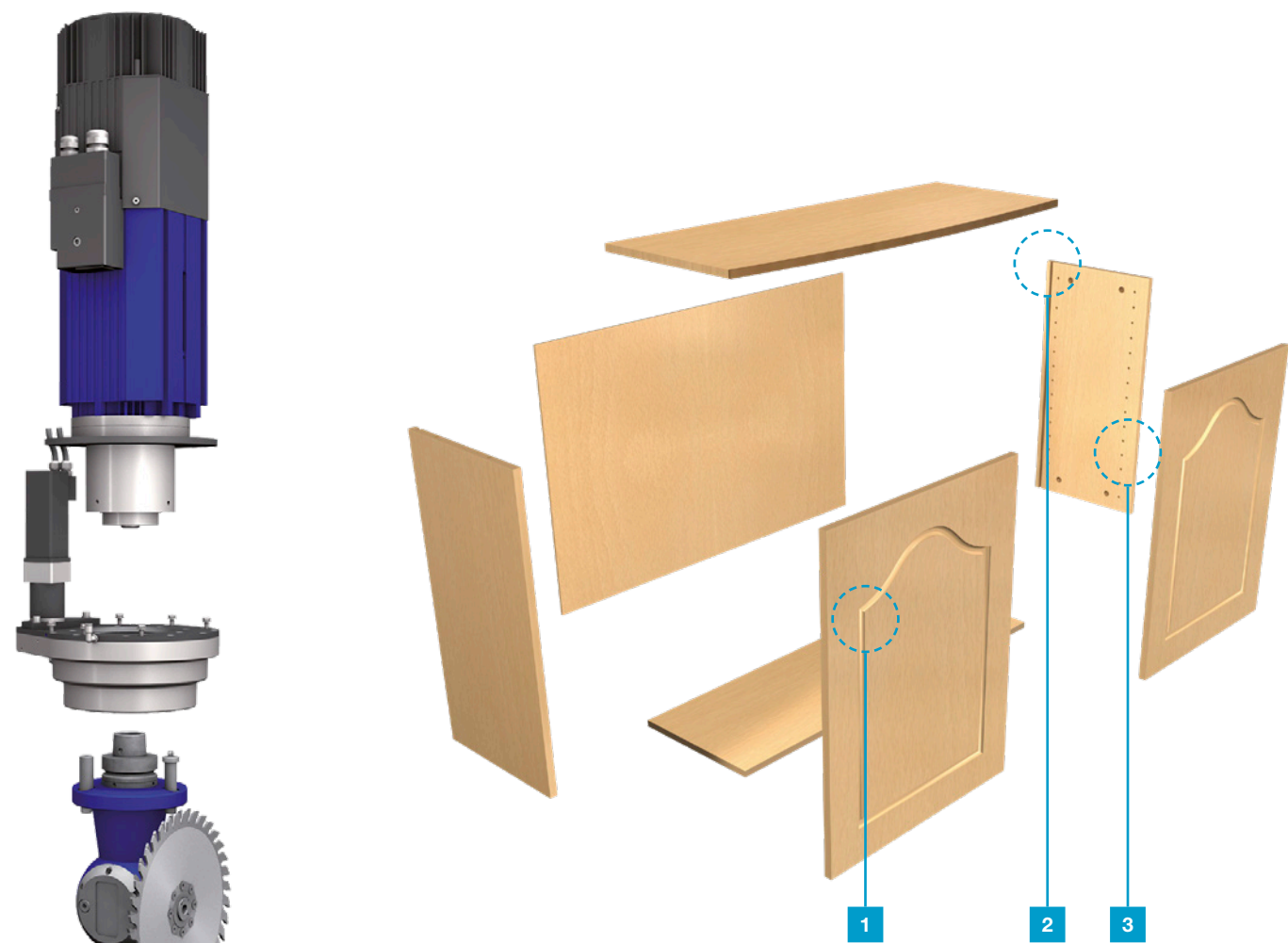
- Safe and quick fitting of the tool change magazine
- High safety by sensor monitoring if the tool pick-up station is free or occupied



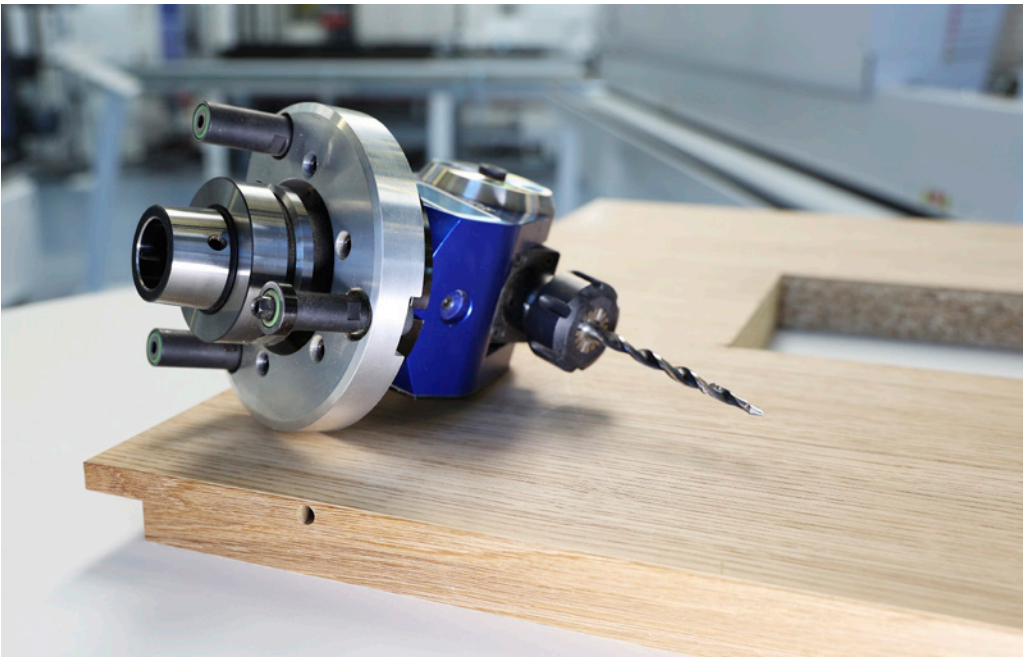
Tool length control (optional - only at 5-Axis-model)

- Suitable for length measurement of shank tools
- Following the tool change via the tool pick-up station a tool length control is carried out and compared with the integrated tool database

Option: C-Axis – get the aggregates!
Range of modular units for flexible working



Lock case machining
Using the example of a room door with a light cutout



Holes for hinges
Using the example of a door with rebate

Options: Aggregates

Sawing, drilling, trimming – at the highest level of perfection



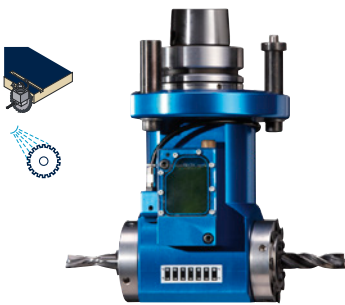
Drilling/trimming unit, four spindles

Four different drilling and trimming tools are available without a tool change via the four-sided spindle outlet. Continuous shaft for increased rigidity and processing without changing the direction of rotation when using left-rotating and right-rotating tools, e.g. for cut-outs for door hinges. Available in two lengths.



Saw/drilling and trimming unit as standard or high performance

Combination unit for using two tools for drilling, trimming and sawing without a tool change. The robust and compact design also enables trimming at a tight angle to the workpiece and a cutting depth of up to 80 mm, 75 mm or 55 mm. The maximum usable tool length for trimming and drilling is 85 mm, 70 mm or 50 mm. Available in two lengths.



High-performance sawing/drilling and trimming unit

This combination unit in high-performance design offers greater power reserves and is also suitable for the continuous use of two tools for drilling, trimming and sawing. The maximum cutting depth is 80 mm or 75 mm. The maximum usable tool length for trimming and drilling is 85 mm or 70 mm. Available in two lengths.



Swiveling sawing/drilling and trimming unit as standard or high-performance version

For saw cuts at an angle of 0° to 90° and bore holes or trimming at an angle of 0° (vertical) to 100° (horizontal). This enables custom-fit shift cuts, bore holes and trimming. The high-performance version offers sufficient stability even for light trimming work. Depending on the unit design, the cutting depth for a vertical saw blade is 50 mm or 70 mm. At a saw blade position of 45°, there is a cutting depth of 43 mm or 63 mm.

Options: Aggregates

Cutting, chiseling, sanding – innovative units expand the possibilities of CNC processing centers.



Eccentric sanding unit

Sanding unit for the smoothing and sanding of molded parts and edges. Ideally suited for use in five-axis processing centers. With commercially available components with a diameter of 125 mm, the grain size of the sanding equipment and the flexibility of the disc can be easily adapted to the application.

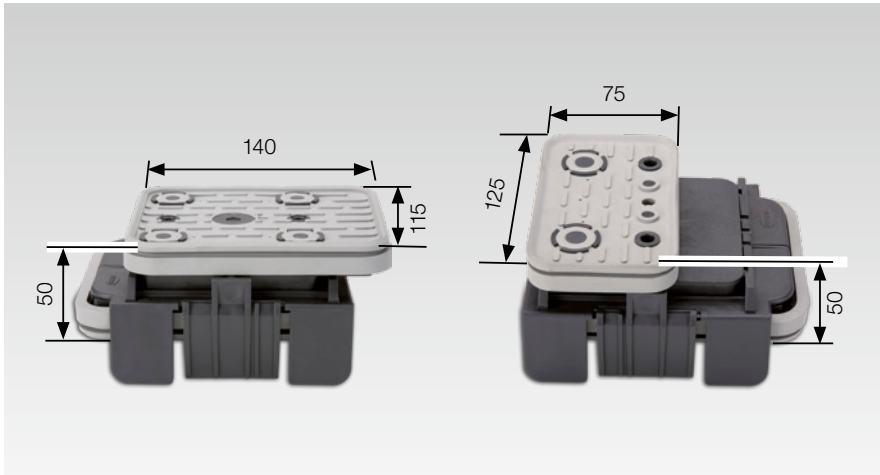
Accurate and safe with the console table

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.



3-4 Axis machine console system suitable for 50 mm height Vacuum cups

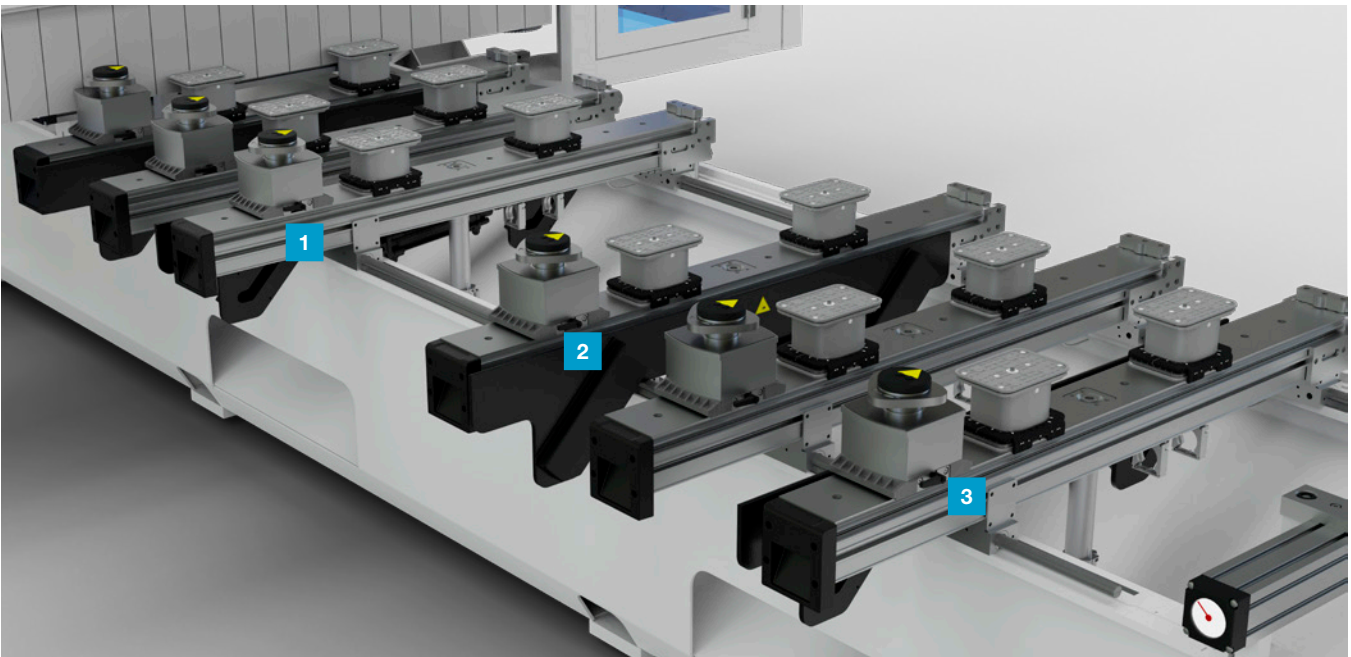
- 1** Consoles with vacuum cups
- 2** Workpiece feeding rail
 - 4 solid feeding rails to ease »sheeting« of heavy workpieces
- 3** Measuring tape
 - For positioning of suction cups



12 vacuum cups (140x115x50)
4 narrow vacuum cups (125x75x50)

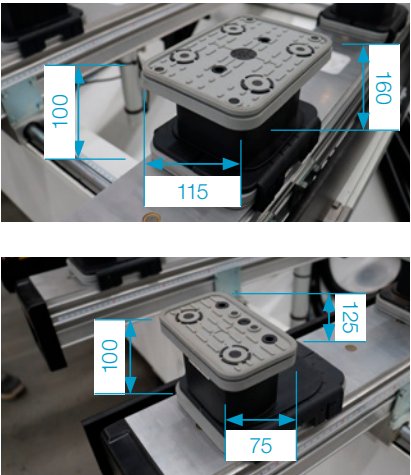


Electronic cylinder surveillance
Enhanced security with the electronicsurveillance of lower cylinder positions at all integrated stops

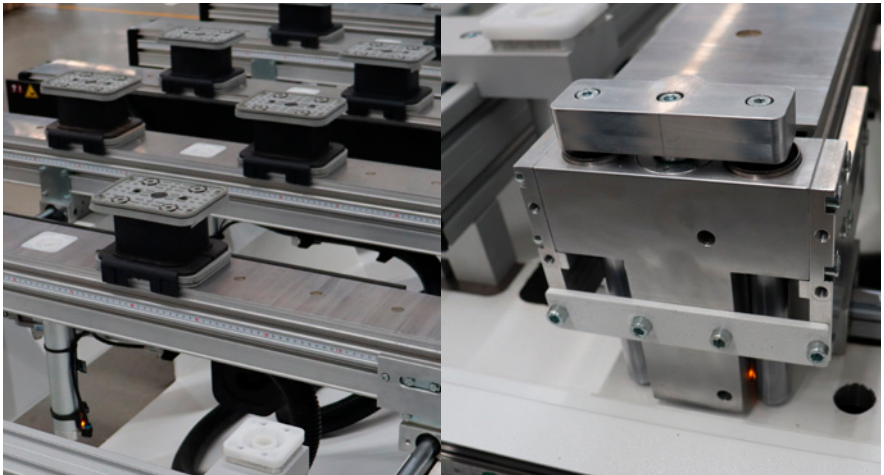


5 Axis machine console system suitable for 100 mm height Vacuum cups

- 1** Consoles with vacuum cups
- 2** Workpiece feeding rail
 - 4 solid feeding rails to ease »sheeting« of heavy workpieces
- 3** Measuring tape
 - For positioning of suction cups



16 vacuum cups (160x115x100 mm)
4 narrow vacuum cups (125x75x100 mm)



Solid Stop System (rear, side, front). Pneumatically lowerable solid stops incl. electronic end position monitoring

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.



Workpiece feeding rail

Solid feeding rails to ease placing of heavy workpieces with 2 pneumatic cylinders The linear movement of the feeding rails ensures safe positioning of the workpieces, regardless of whether they are processing at the front or rear stops.



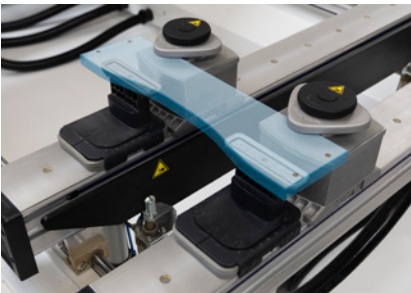
Option: Laser positioning

Simple positioning of the vacuum cups through the pin laser. The workpiece contour can be “moved” as a positioning aid for free-formed workpieces.



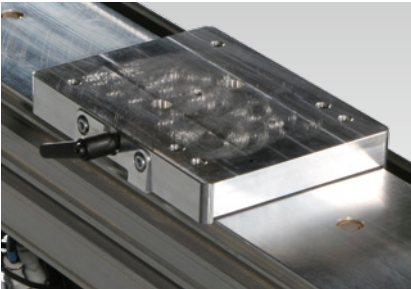
Option: Vacuum connections

- E.g. for templates and clamp type multi clamps



Option: Multi clamping system

E. g. for frames and small parts



Option: Base plate module

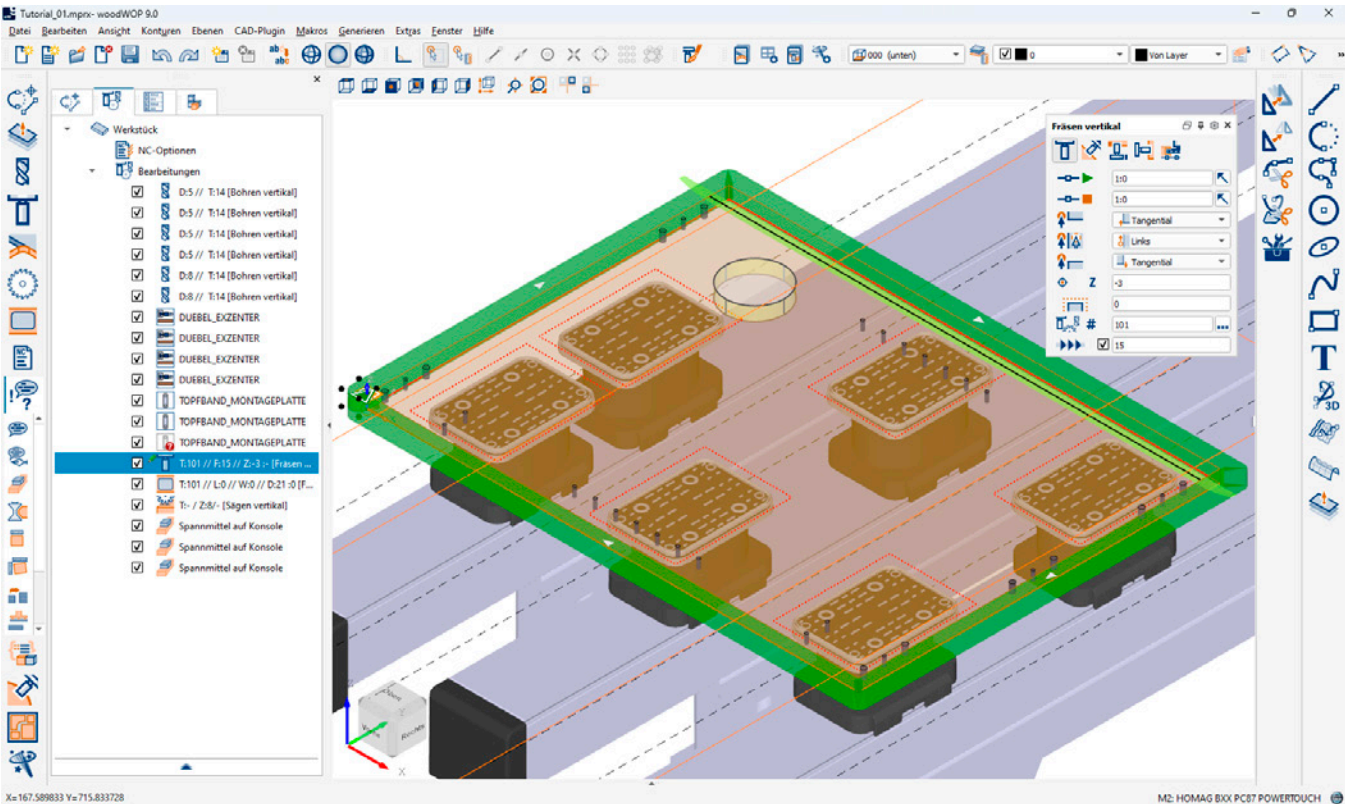
For mounting on the consoles as the basis for special clamping fixtures.

HOMAG software solutions

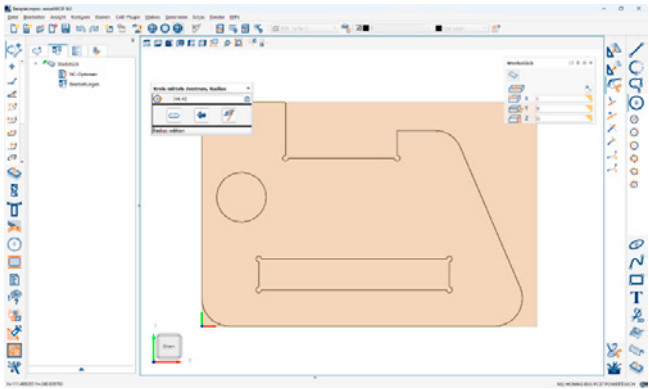
The basis for simple and efficient operation

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:

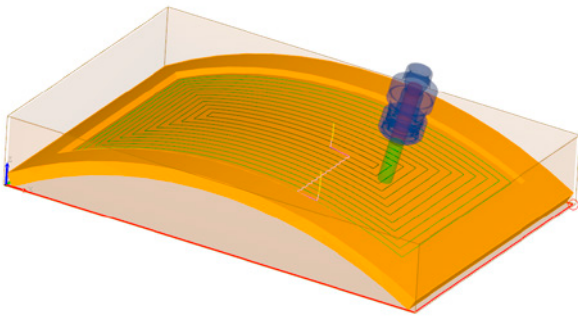
Interfaces to external programming and construction systems, auxiliary programs for nesting and modules for machine monitoring and performance tracking.



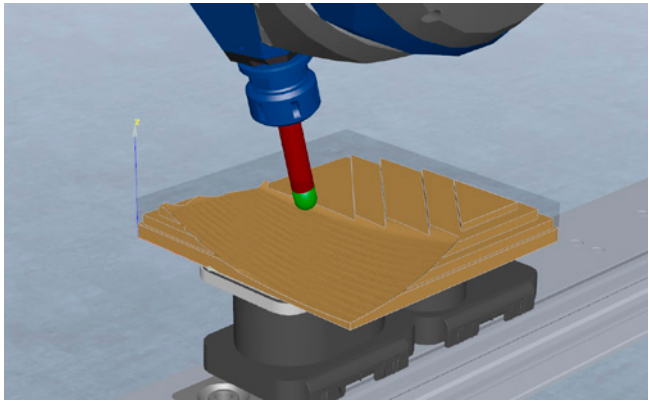
- woodWOP – efficient thanks to fast programming**
- Fast and intuitive operation thanks to simple, direct navigation
 - Select from a choice of variables for flexible variable programming
 - Quickly create individual subprograms
 - Increased programming security through 3D images of workpieces, processing 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



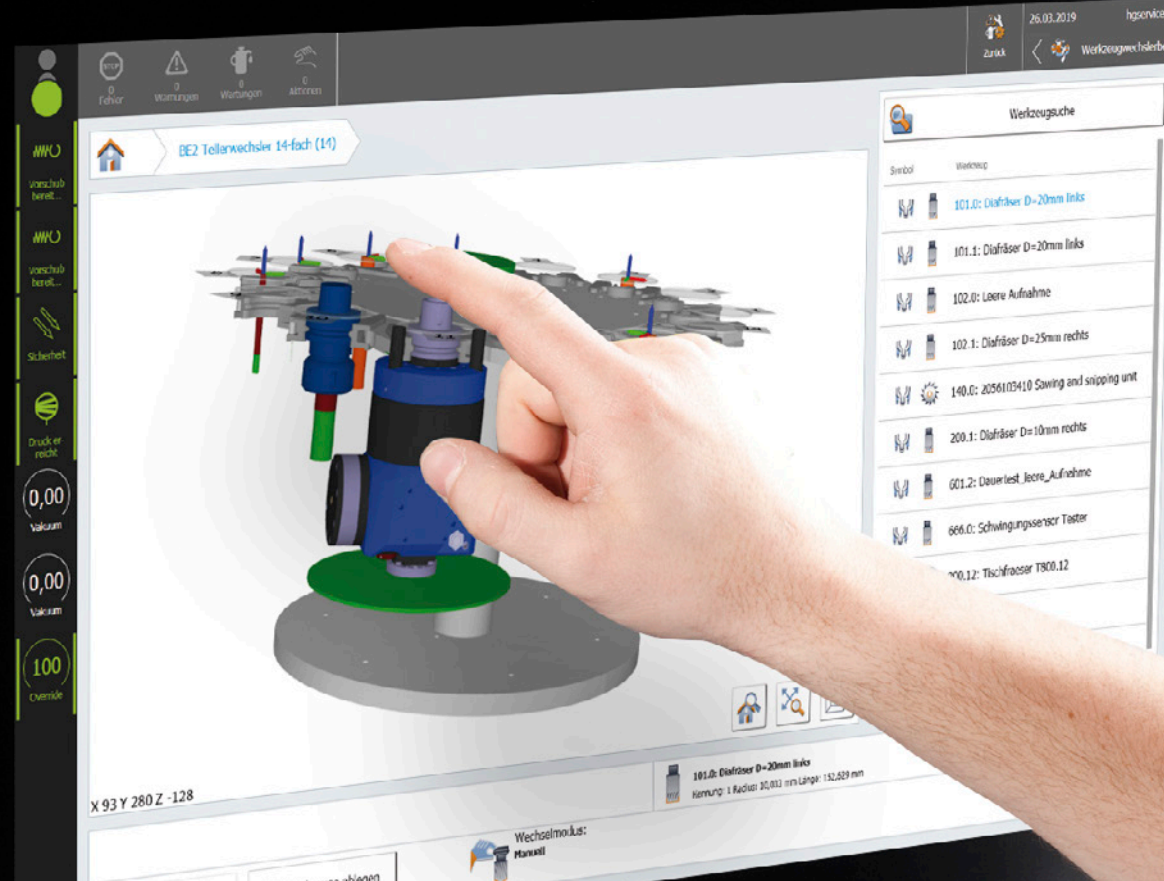
- woodWOP CAM-Plugin**
- CAD/CAM functions directly integrated into woodWOP
 - Rapid construction of 3D surfaces in the CAD plugin or by importing 3D models
 - Automatic generation of the milling paths for roughing, finishing and formatting 3D objects
 - Safe work, because the milling paths and the overrun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



- 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

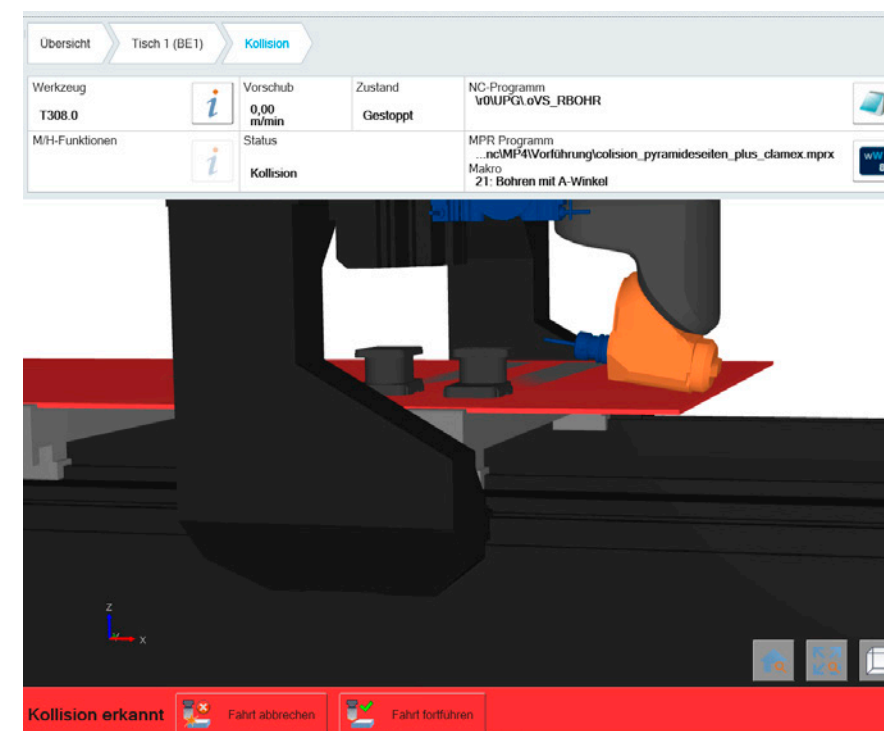


More information
you find on our website in the brochure
»Software from the HOMAG«



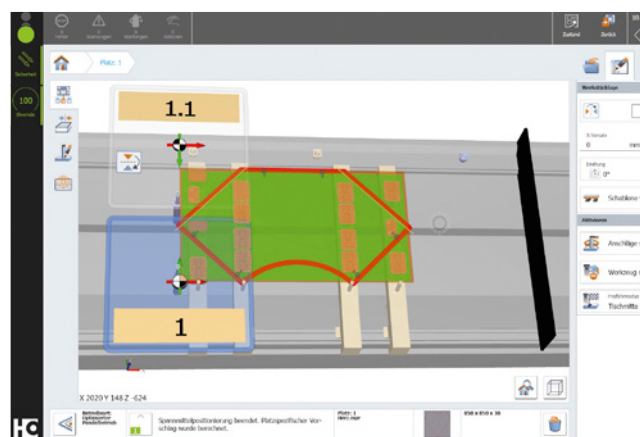
powerTouch PC87 with full touch operation

- 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



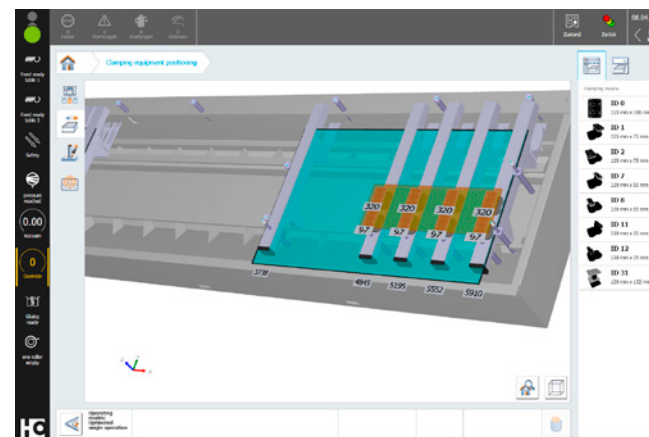
collisionControl – permanent security for your machine

- 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



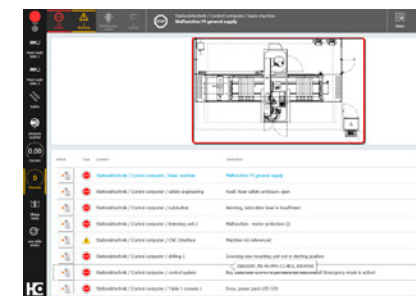
Slot assignment

- 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



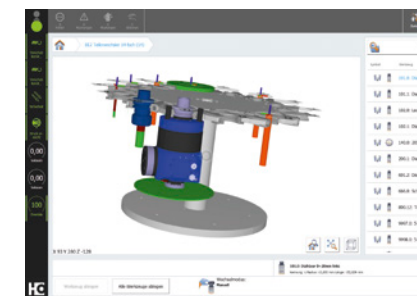
Automatic suction unit recommendation for workpiece or entire table

- 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



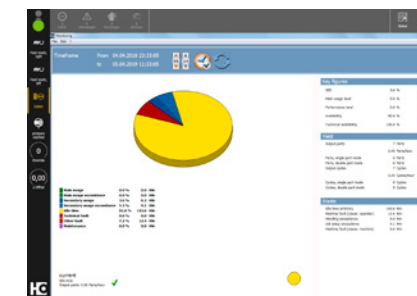
woodScout – help in your language

- 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



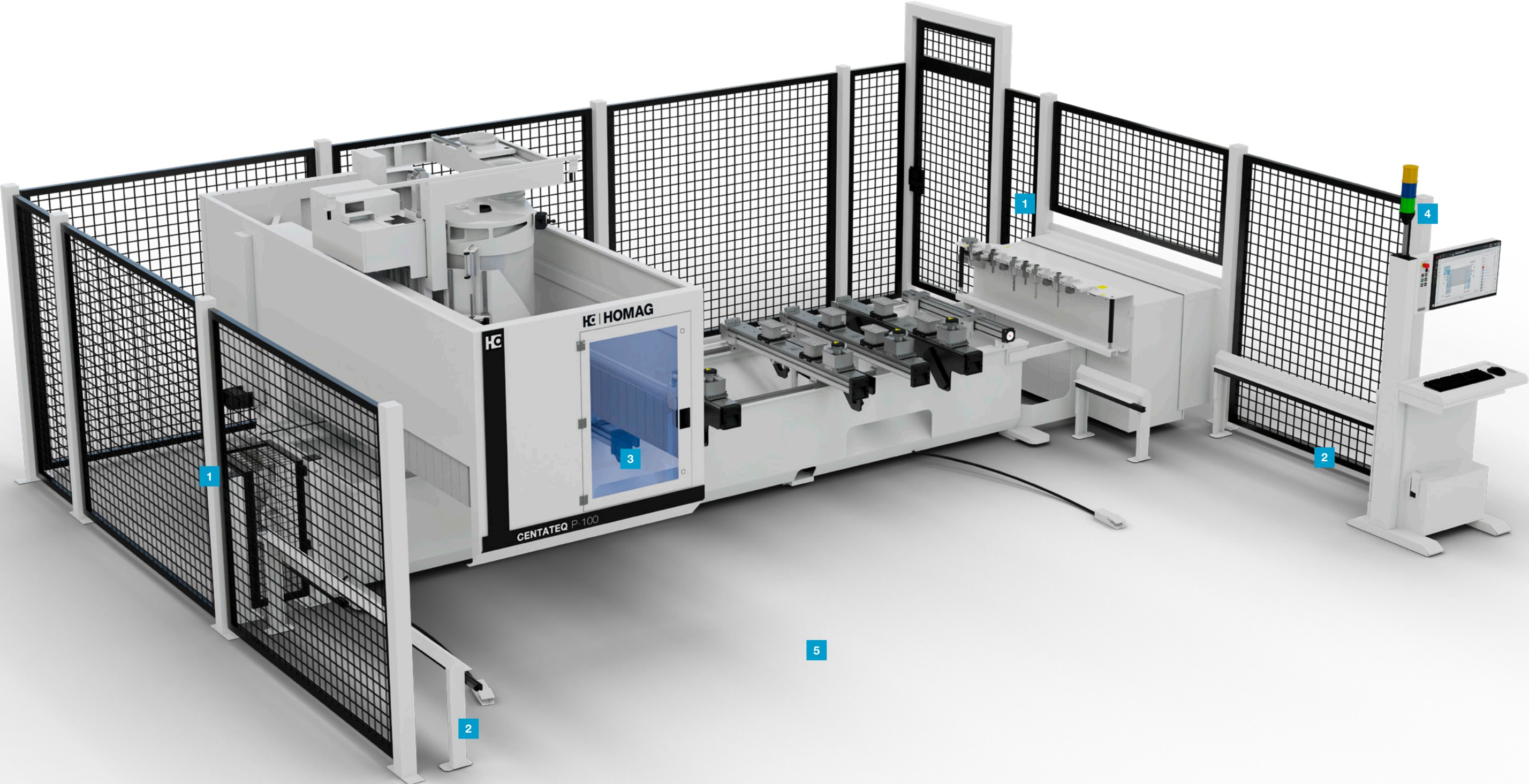
Graphic tool data base

- 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



1 270° Access grating system with controlled door

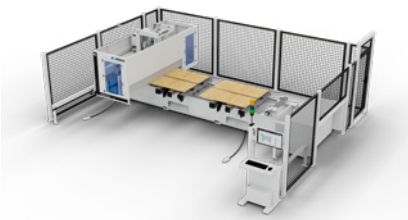
2 Front-mounted dual light barriers on each side of the machine, halts its operation if they detect human intrusion

3 Maintenance window Safety switch buttons: machine will function only when windows are closed properly

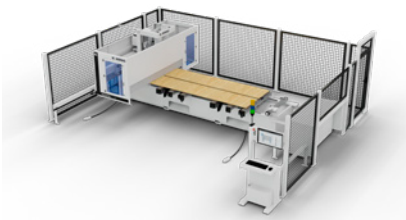
4 Tower light indicates the status of the machine operation

5 No obstructive Safety mats

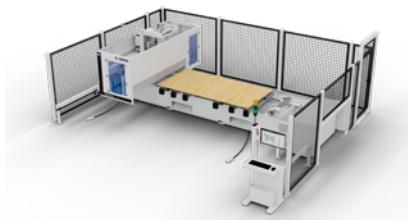
Handling Concept 3-4 & 5 Axis CE Machines



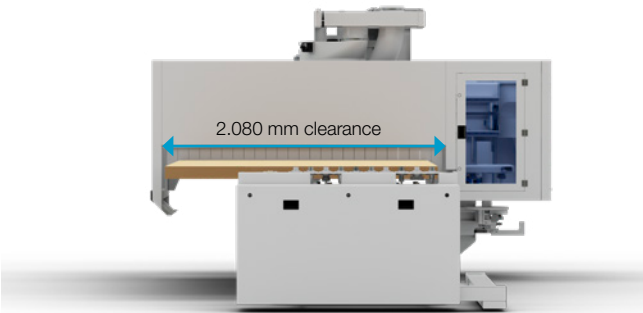
4 piece loading



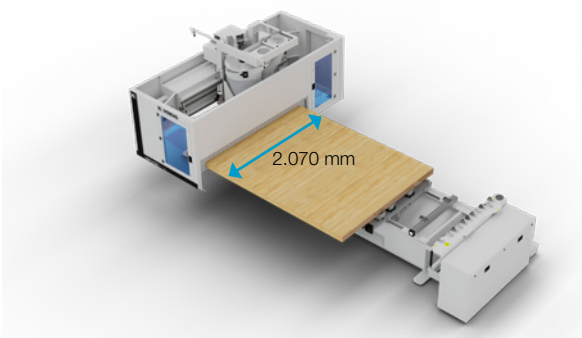
2 piece loading



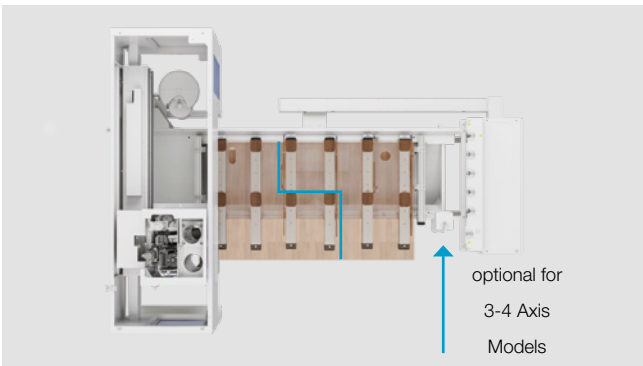
Applicable for 3-4 & 5 Axis machines



Maximum clearance distance 2.080 mm



Maximum loadable workpiece width 2.070 mm

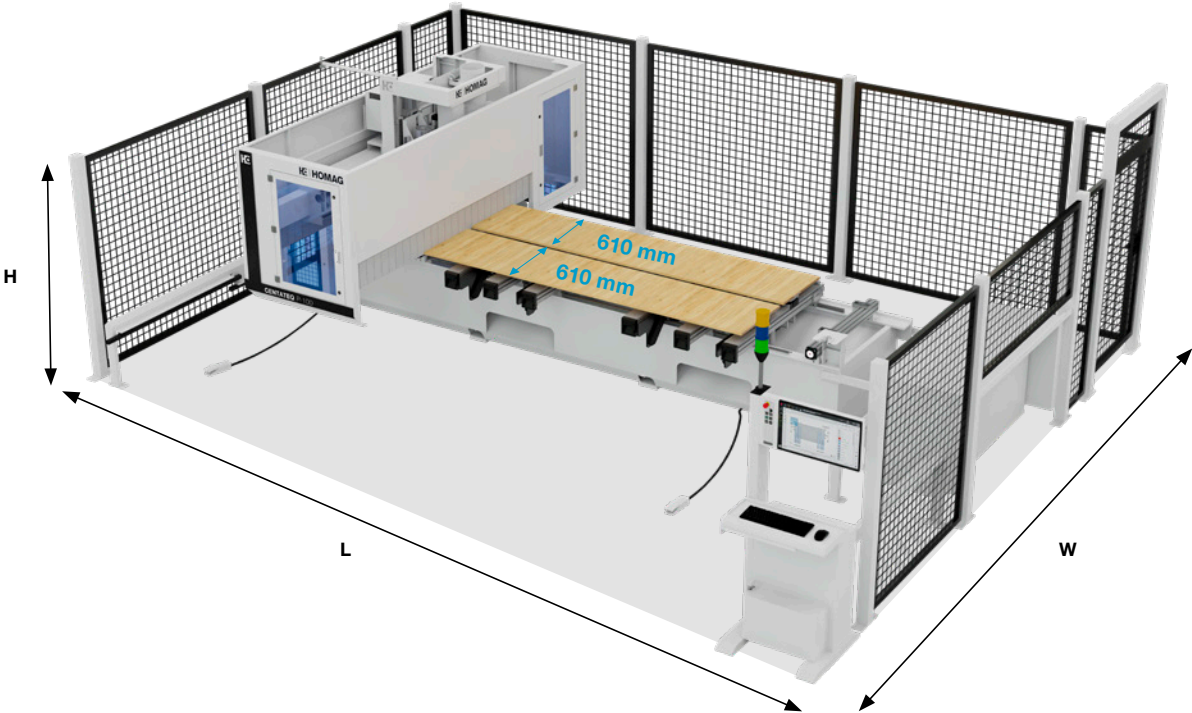


Processing at 1.600 mm in Y direction

Technical data CE

CENTATEQ P-100 CE								
Technical Data	Units	Professional			Premium			
		X	Y	Z	X	Y	Z1	Z2
Working field (XYZ)	mm	3.250	1.600	100	3.100	1.600	150	150
Routing (Ø =25 mm) (XYZ)	mm	3.250	1.600	100	3.100	1.600	150	
Drilling	mm	3.250	1.355	70	3.100	1.285		70
2-Field Operation (X)	mm	1.500			1.450			
Electrical connection		Voltage 400 V 50 Hz 3 Phases			Voltage 400 V 50 Hz 3 Phases			
Speed	m/min	65	50	20	45	35	15	15
Compressed air connection	inch	R 1/2			R 1/2			
Compressed air required	bar	7			7			
Dust extraction port	mm	200			200			
Dust extraction Volume	m3/h	min. 3.170			min. 3.170			
Total machine weight	Kg	approx 3.300			approx 4.500			
Total connected load	kW	17.5			17.5			
Switch cabinet L-W-H	mm	1.560-480-745			1.560-480-745			

INSTALLATION DIMENSIONS			
Model	L	W	H
Professional	7.450	4.850	2.543
Premium	7.715	4.850	2.543



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HC CREATE DATA

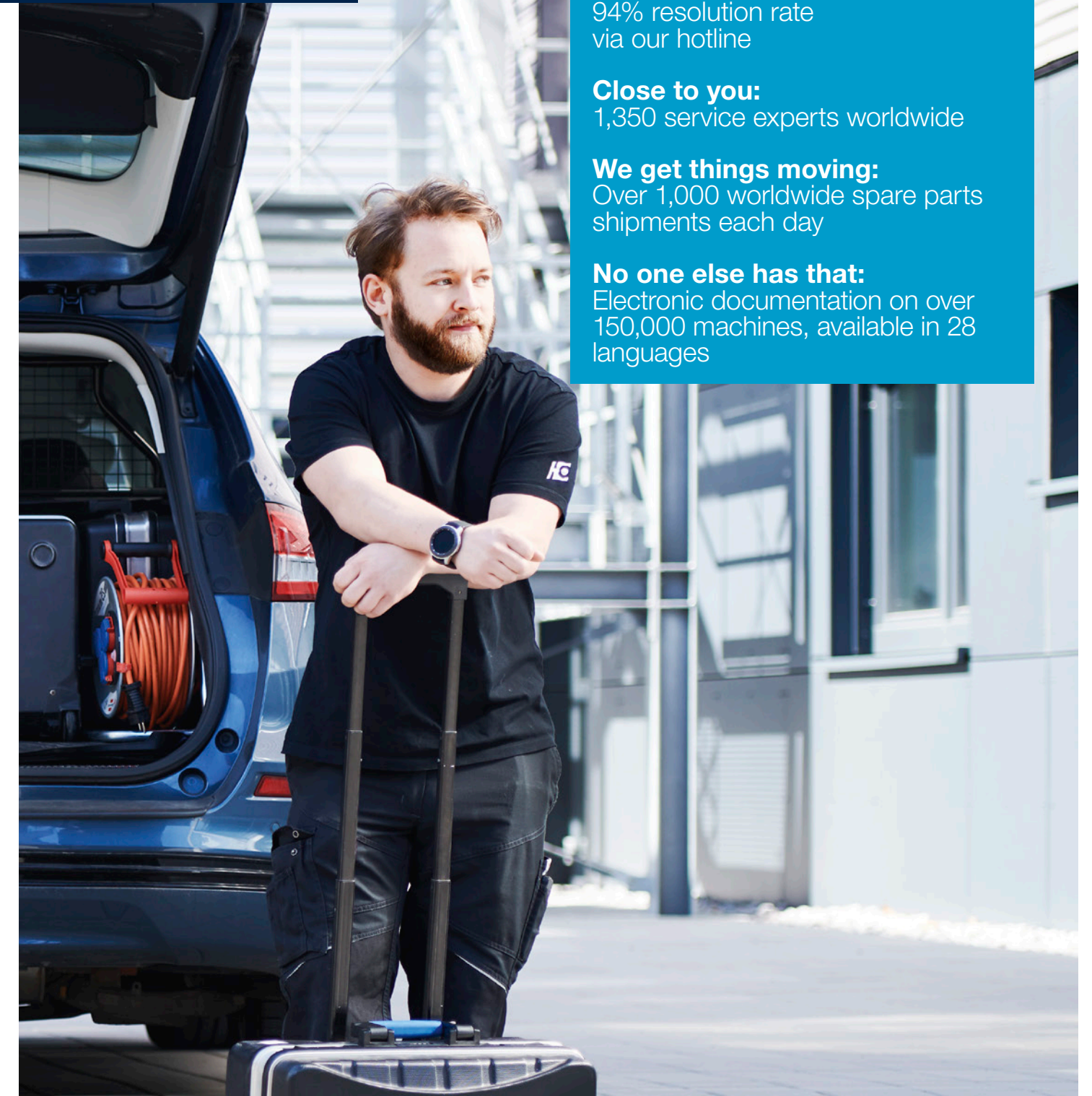
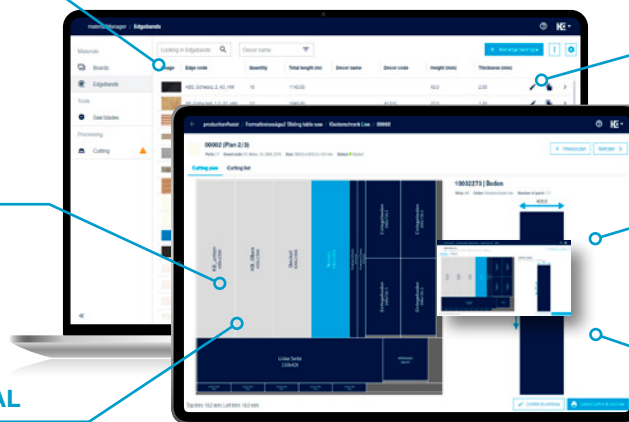
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