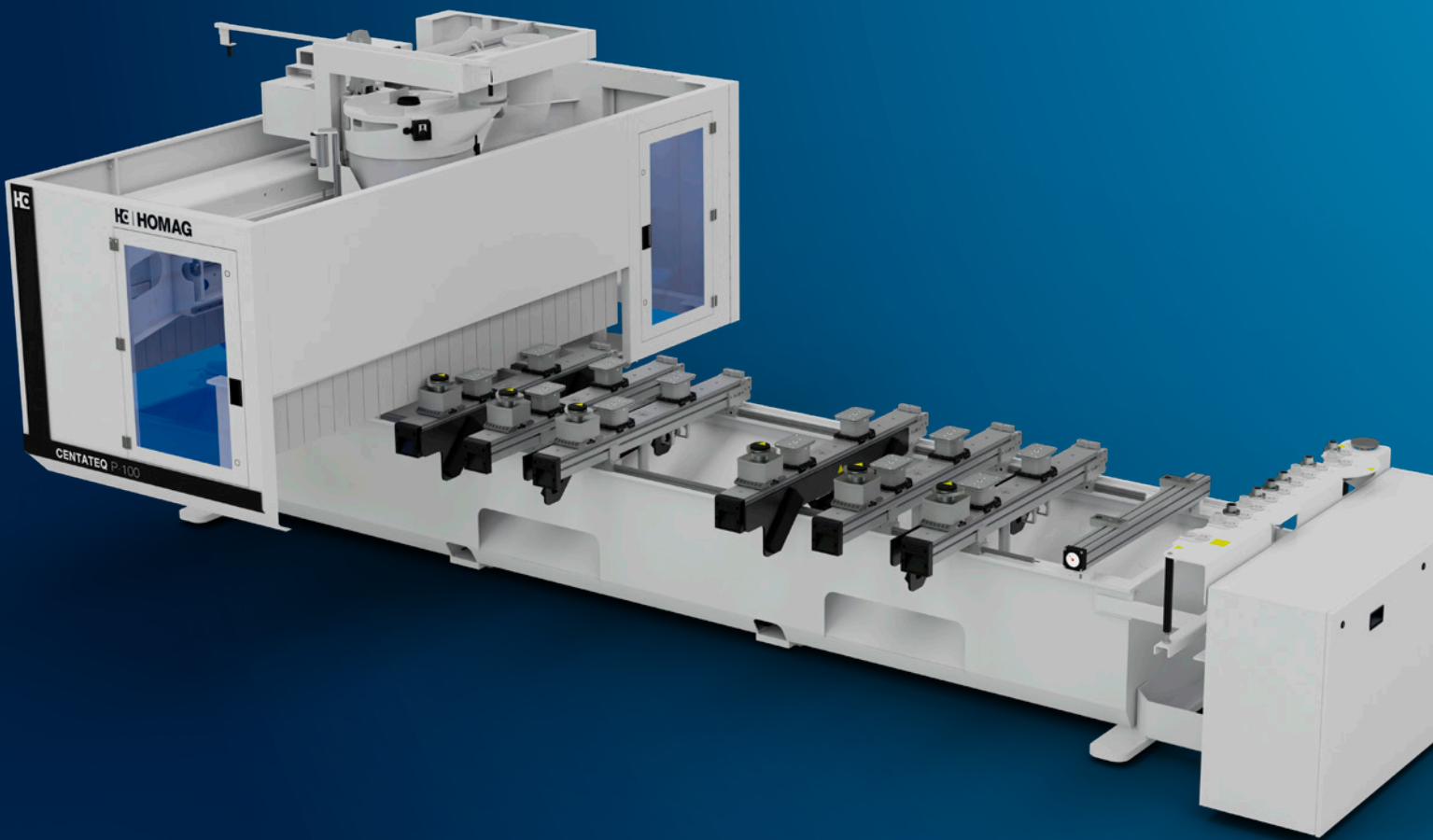


# CENTATEQ P-100

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





# 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.**

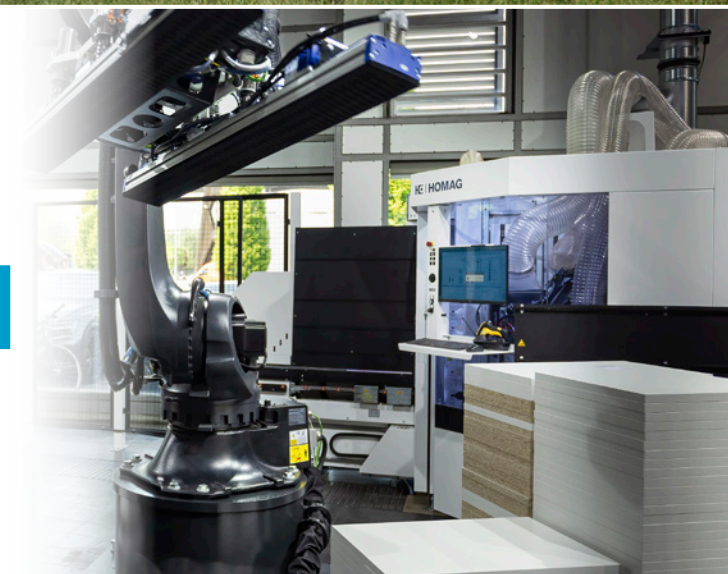
Dimensional accuracy, repeat accuracy, fits – precision is the top priority in CNC machining. That's why we offer superior technology and individual equipment for the high-precision production of furniture, interior fittings and construction elements – with three, four or five axes.

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.**







# 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
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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.

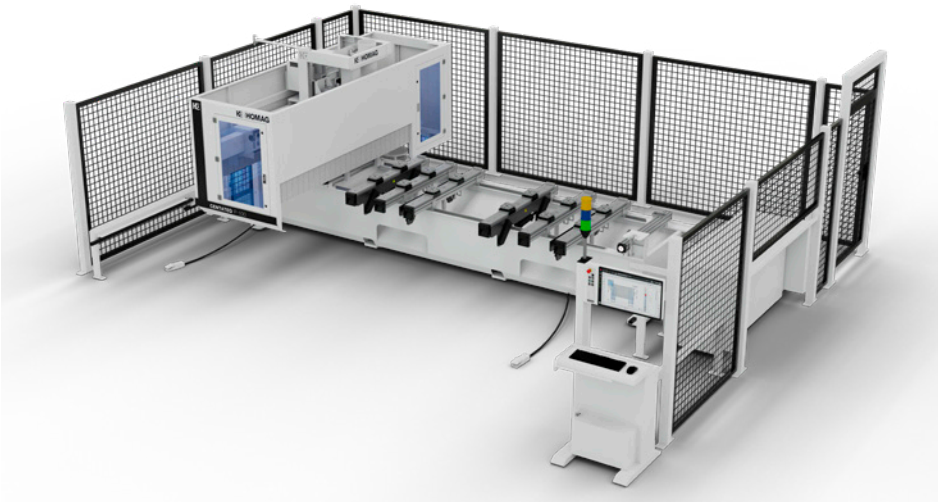
It provides reliability, productivity, and operator-friendly functionality while minimizing space requirements.

## HIGHLIGHTS

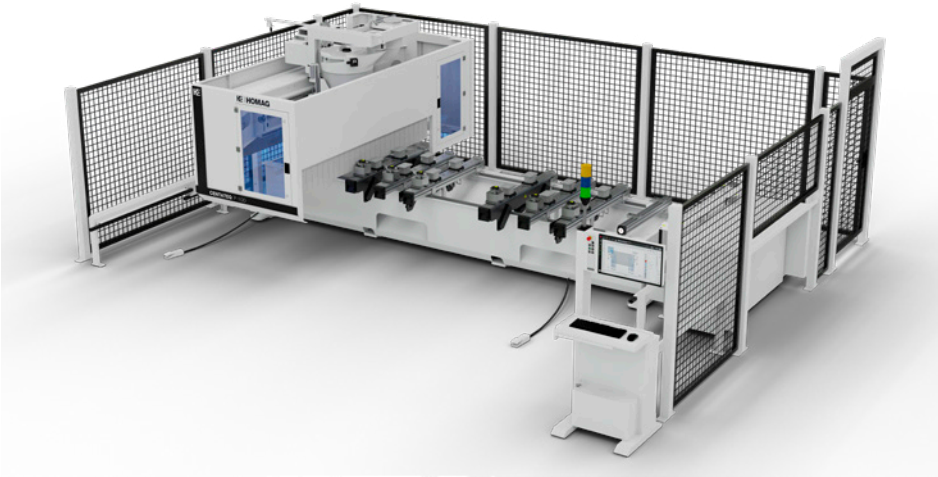
- Suitable for 3-4 & 5 axis Applications
- Versatile processing center with 4-field loading
- Routing up to 1.600 mm in Y direction and a software optimized working field
- Flexible and customizable for multiple configurations
- Variable processing speed and configurable drill blocks with grooving saw
- 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.



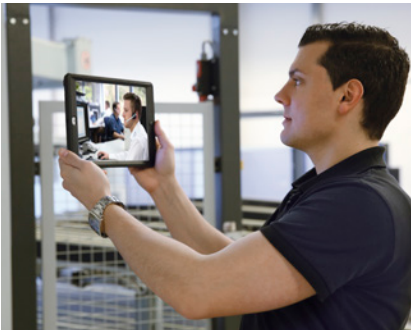
**Model 3-4 Axis:**  
3-4 Axis configuration with X- Working length 3.250 mm



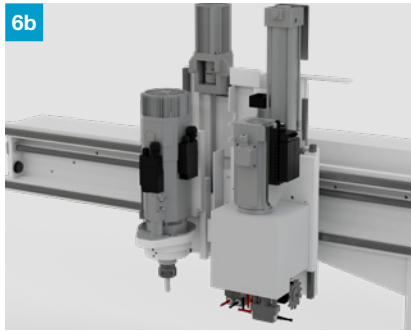
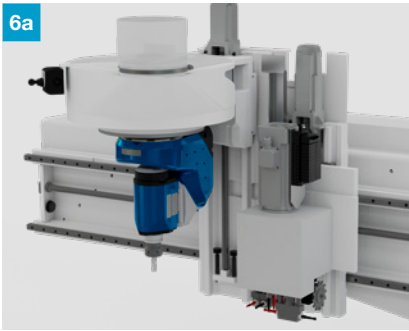
**Model 5 Axis:**  
5 Axis configuration with X- Working length 3.100 mm



# 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.



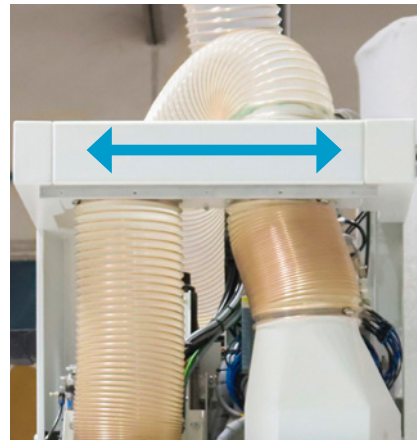
- 1 Optimal view with a large viewing window to ensure maximum protection for the operator
- 2 Router spindle
- 3 Configurable 3 different capacity drill blocks
- 4 Moveable control panel with PowerTouch
- 5 Traveling rotary tool changer
- 6 a) Z1 and Z2 axis: 5 axis machine  
b) Single Z axis: 3-4 axis machine
- 7 Linear fixed tool changer + Integrated Tool Pickup station
- 8 Tubeless console table with free positionable pods



## 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.



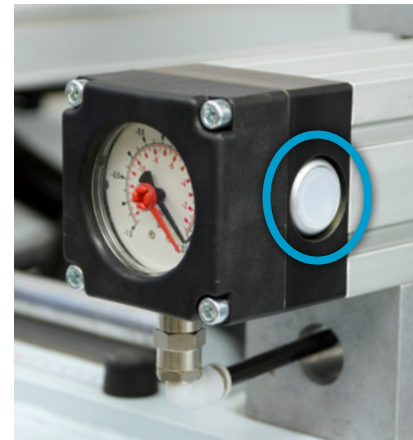
### Controlled dust extraction channel

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



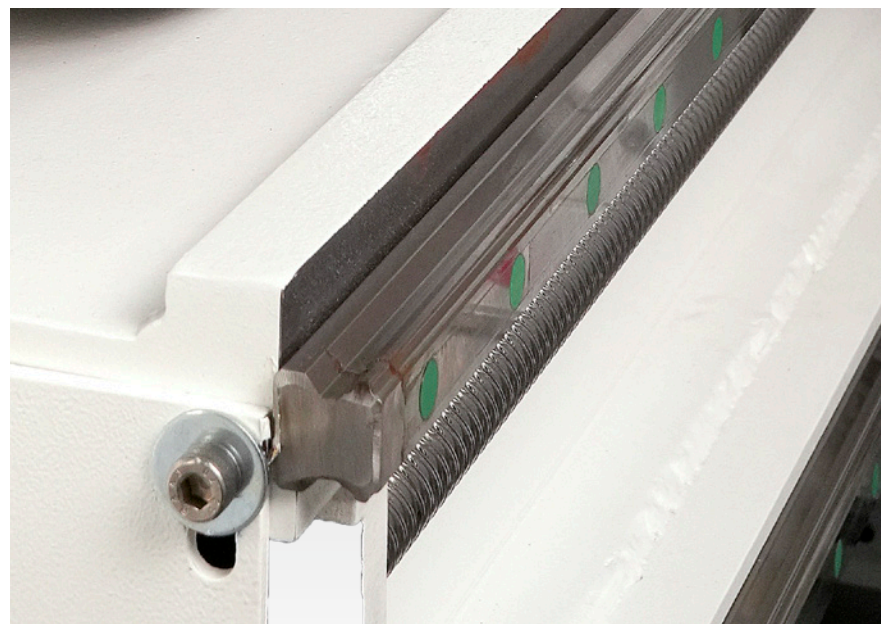
### Sealed energy cable

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

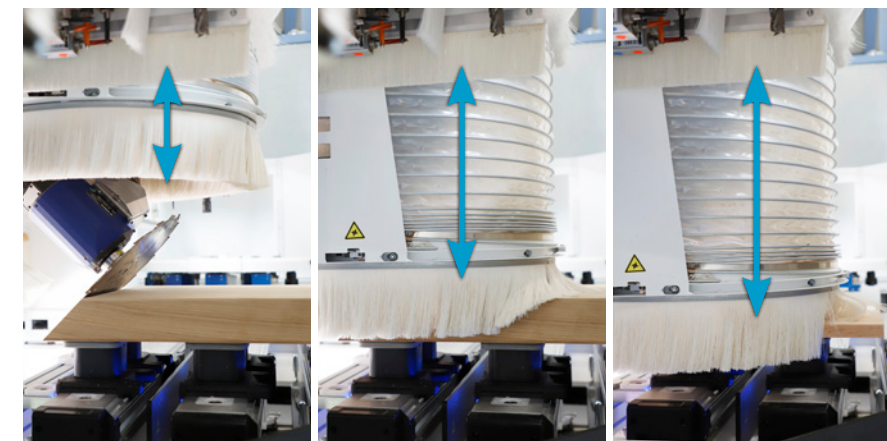
- powerControl with powerTouch
- 24" Full-HD multitouch display
- USB frontside bus
- Ethernet connection 10/100 Mbit
- Inklusive flexible mobile handheld terminal for easy operation

## 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

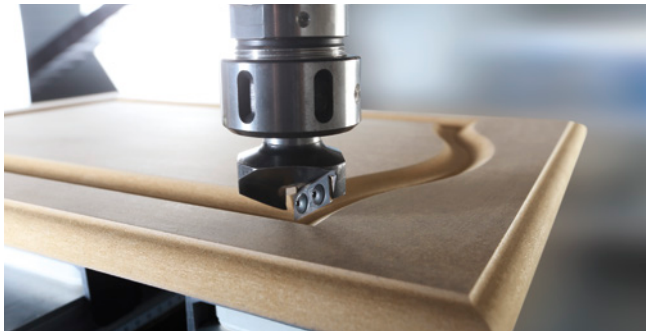
- Simple activation of the stand-by mode
- Vacuum pump is switched off (savings of up to 12%)
- Reduction of compressed air (savings of up to 6%)



# 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



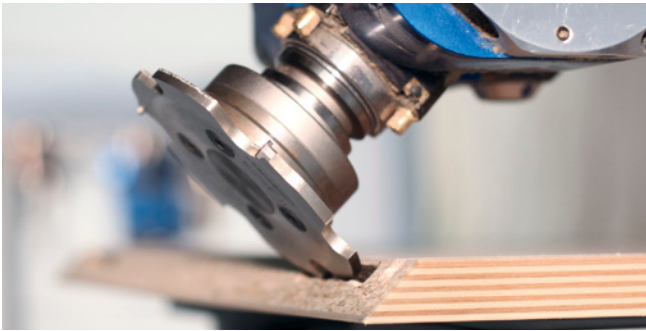
Profiling furniture fronts



Routing lock cases



Cutting mitre cuts

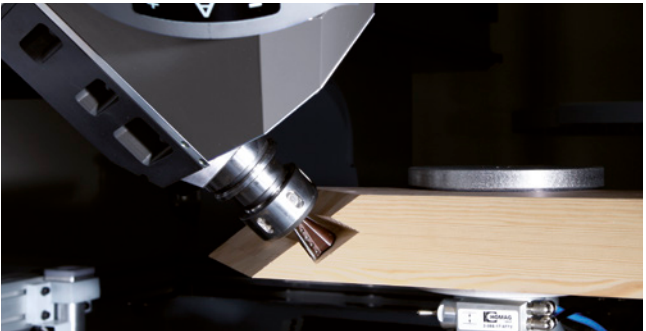


Cutting recesses for connecting fittings

## 5-axis applications



Mitre cut with high cutting depth for frames



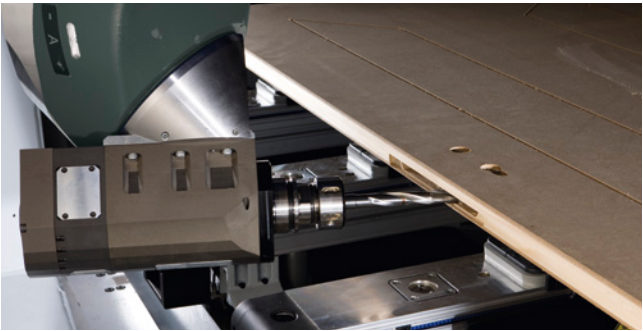
Routing of a dovetail joint for upright / transom constructions



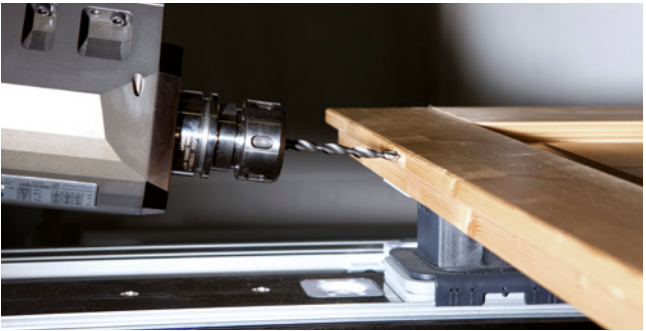
Chamfer trimming on a table top



Square corner routing for a glass rebate



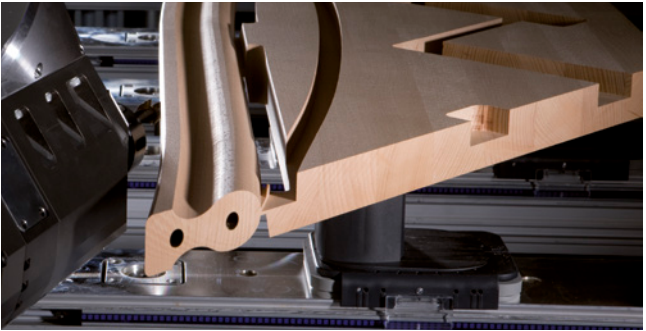
Lock case routing



Step drilling for drill-in hinges



Precise, splinter-free mitre cuts



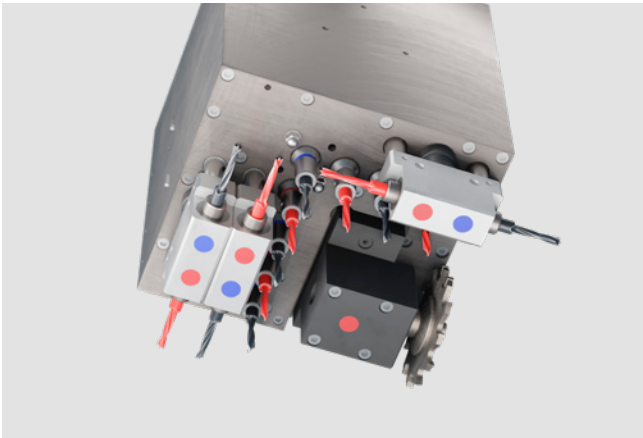
Holes for piling at narrow angles



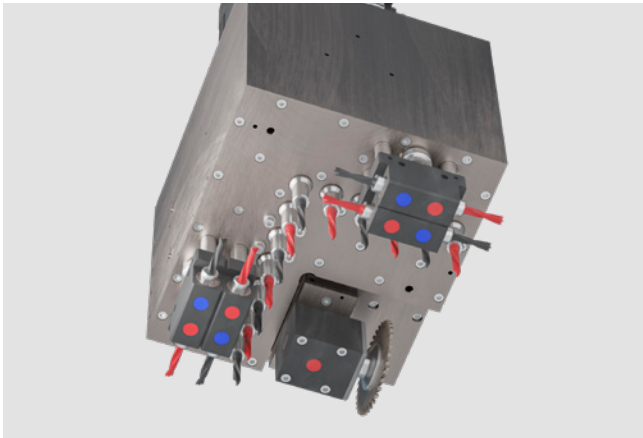
# HOMAG drilling technology: The best of the best

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

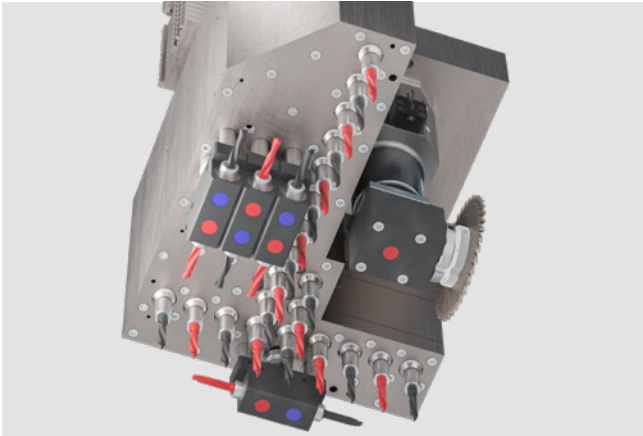
Additional optional attachments expand the machine's range of applications.



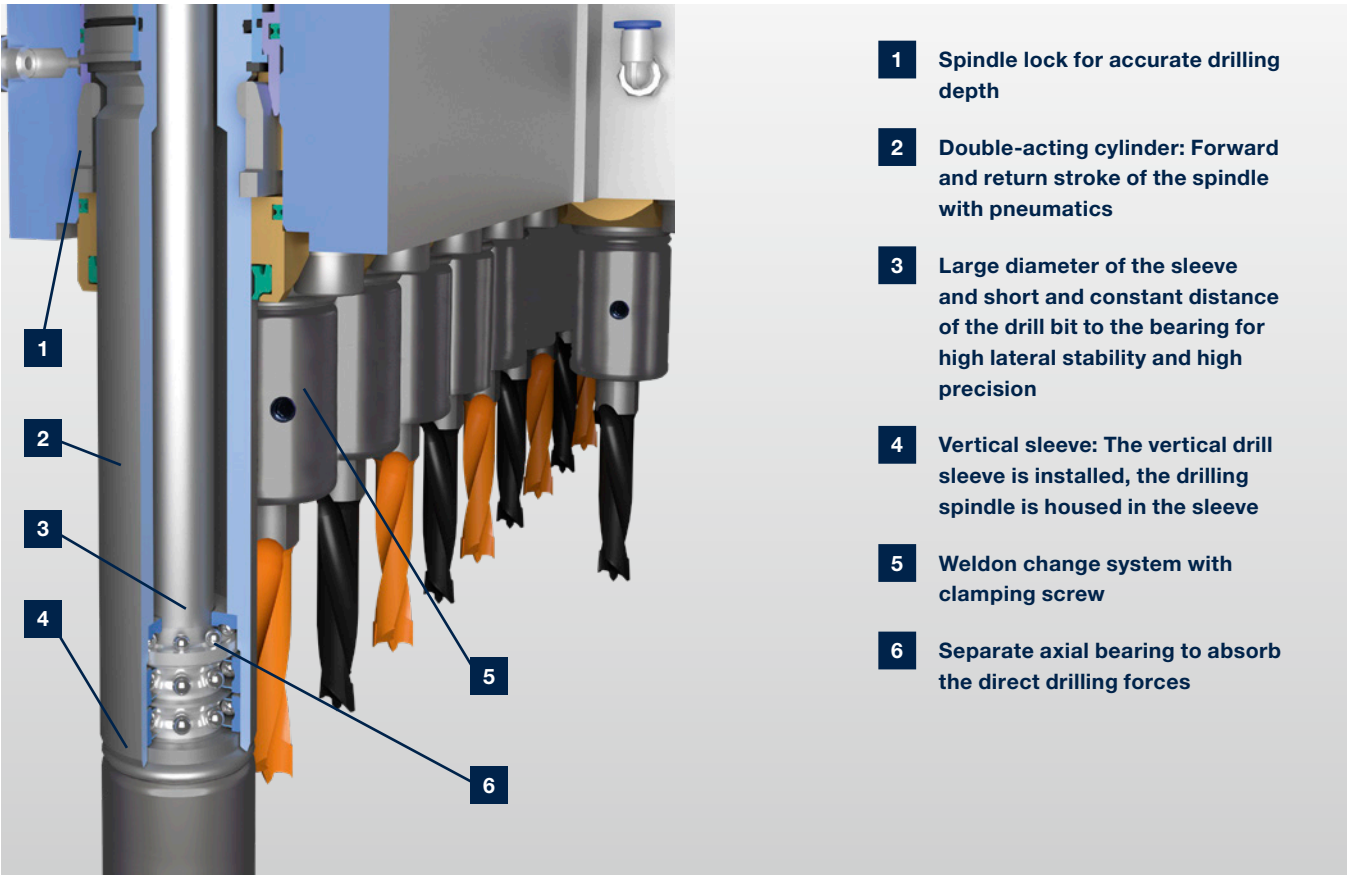
- Drilling gear V8/H6GX** (option)
- 14 drilling spindles [high speed 7.500]
  - 8 vertical drilling spindles
  - 4 horizontal drilling spindles in X
  - 2 horizontal drilling spindles in Y
  - Groove saw Ø 100 mm in X Direction



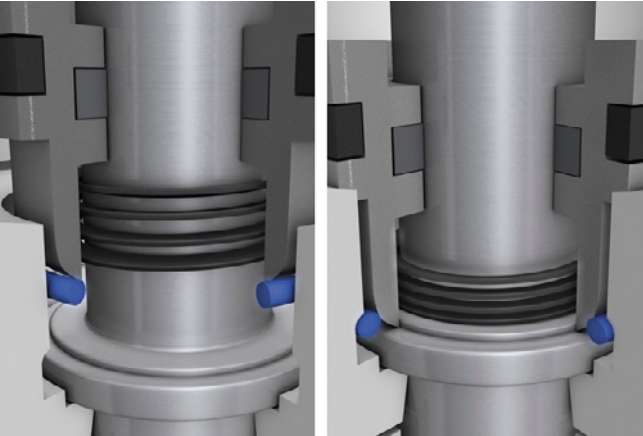
- Drilling gear V12/H8GX** (option)
- 18 drilling spindles [high speed 7.500]
  - 12 vertical drilling spindles
  - 4 horizontal drilling spindles in X
  - 4 horizontal drilling spindles in Y
  - Groove saw Ø 100 mm in X Direction



- 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

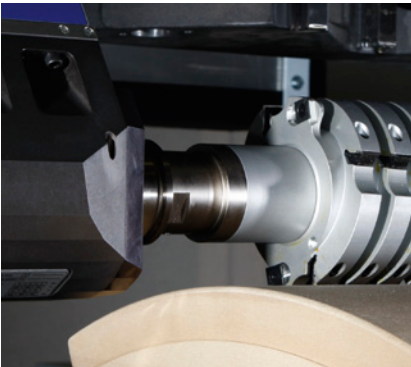


**Automatic spindle lock**  
Patented system for a drilling depth that is always accurate for numerous different materials. With speeds from 1.500–7.500 rpm for high feed speeds or short drill cycles.



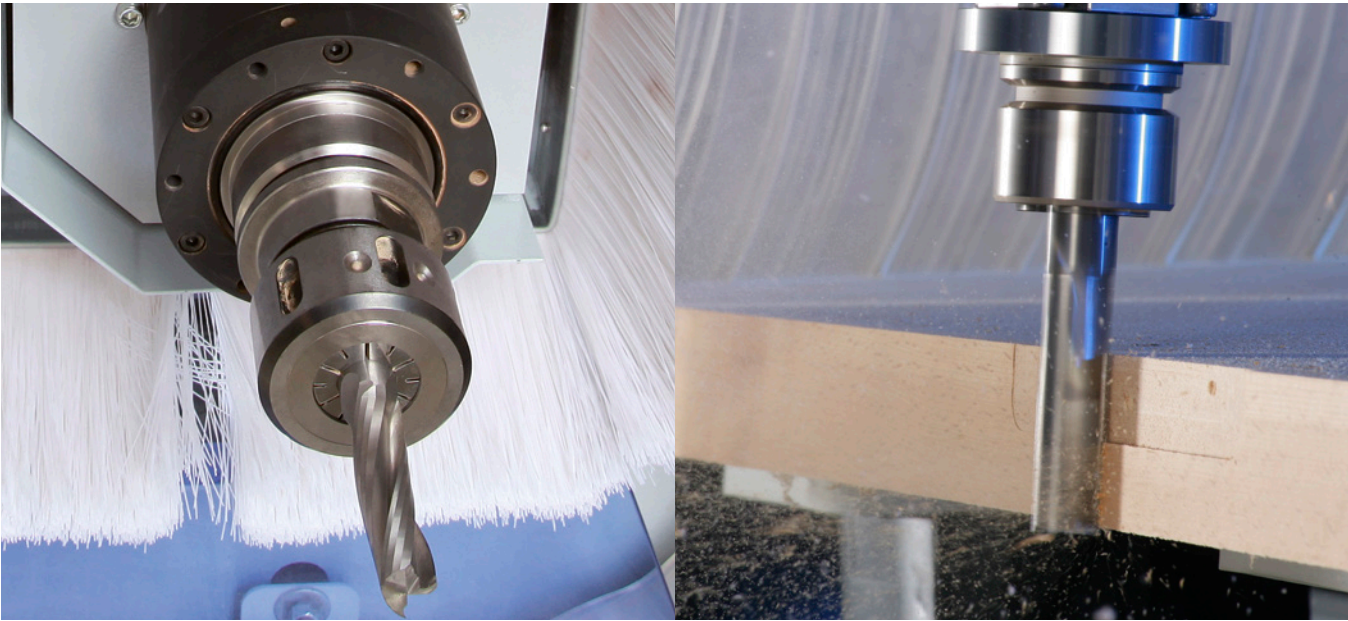
# Main spindle technology

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.

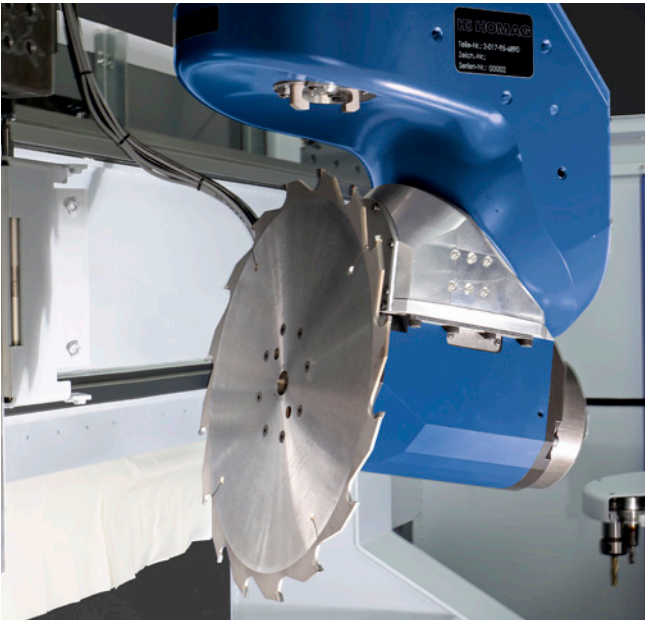


**Spindle sensor**  
Routing spindles with hybrid storage offer a long service life. An additional vibration sensor (option) detects tool unbalances and protects the spindle against overloading, due to high feed speeds for example.

# 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.



Linear changer (Option for 3-4 Axis model)

- 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.

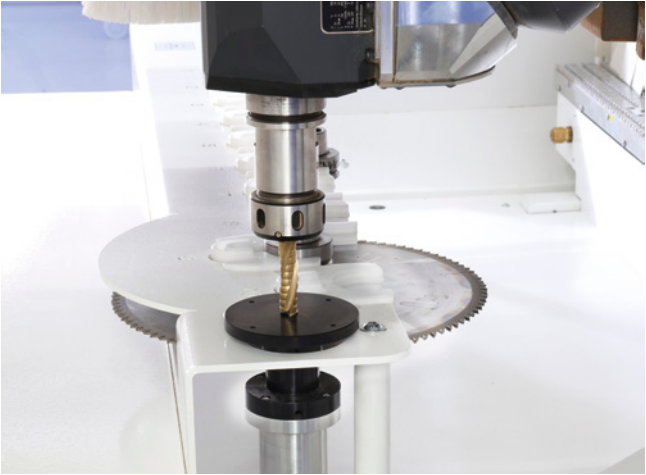


8-fold tool changer



Tool pick-up station

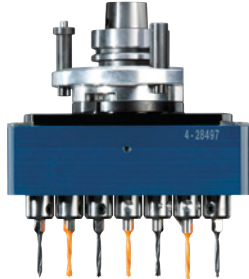
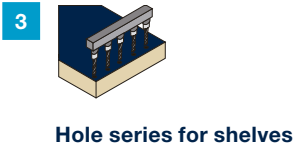
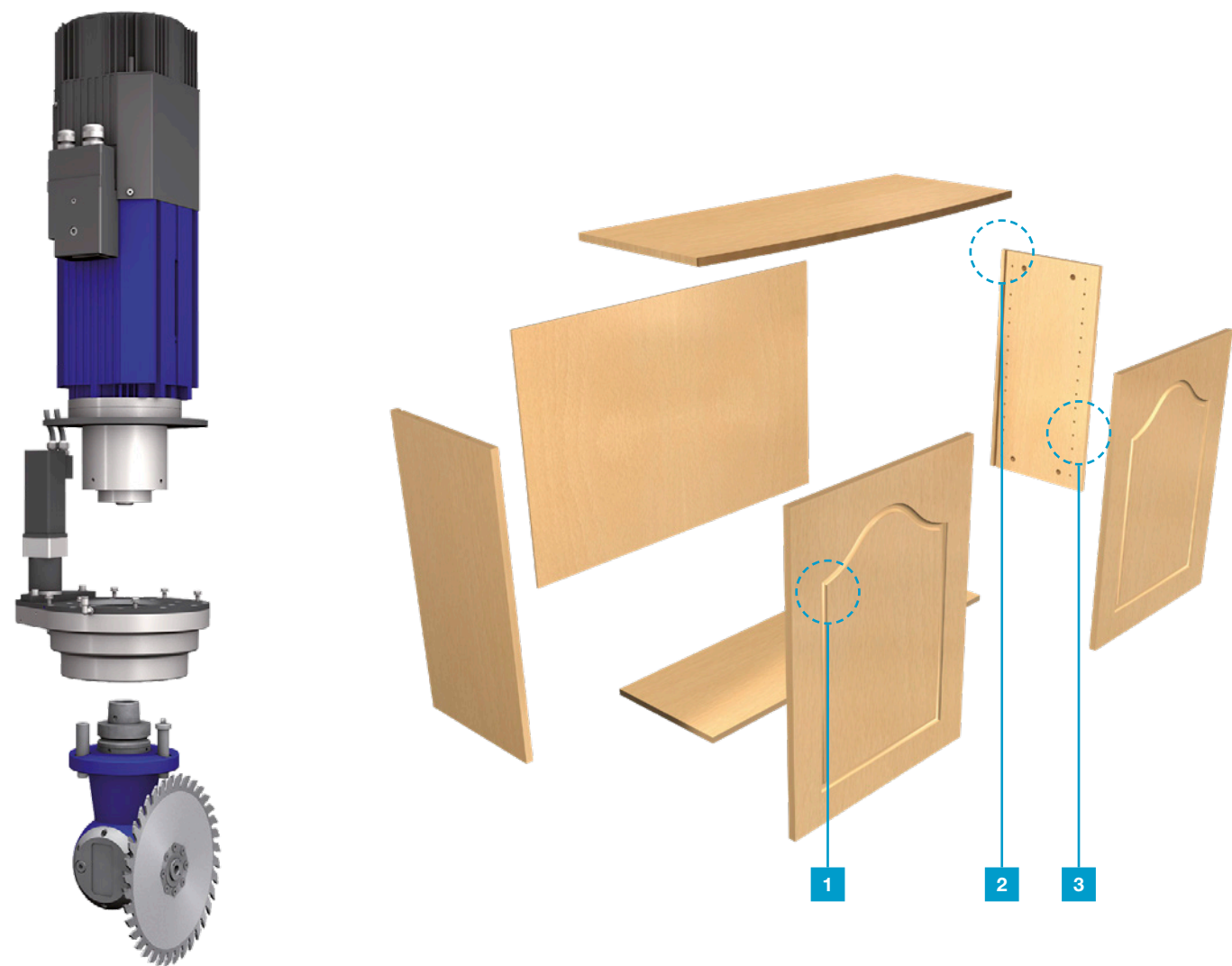
- Safe and quick fitting of the tool change magazine
- High safety by sensor monitoring if the tool pick-up station is free or occupied



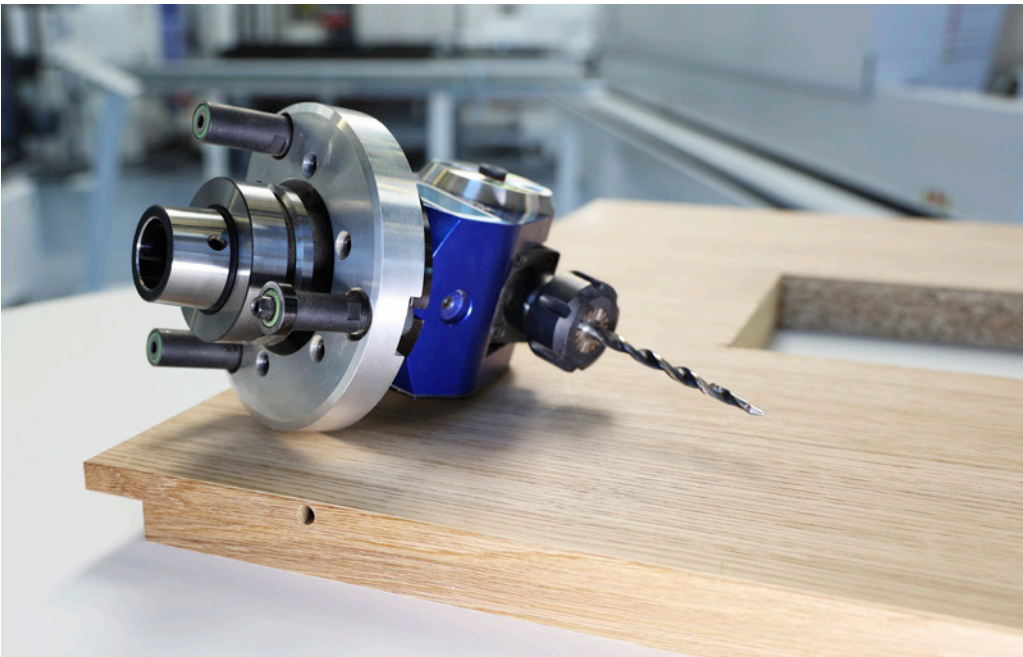
- Tool length control** (optional)
- Suitable for length measurement of shank tools
  - Following the tool change via the tool pick-up station a tool length control is carried out and compared with the integrated tool database



**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



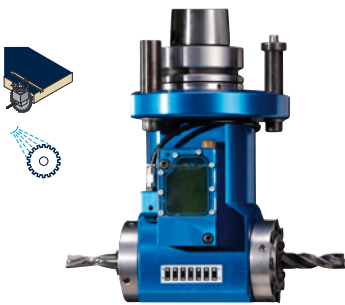
### Drilling/trimming unit, four spindles

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.



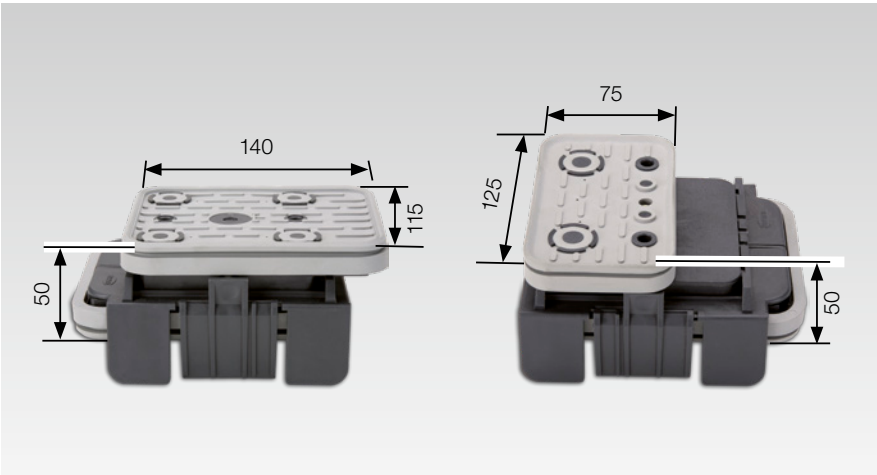
# Accurate and safe with the console table

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

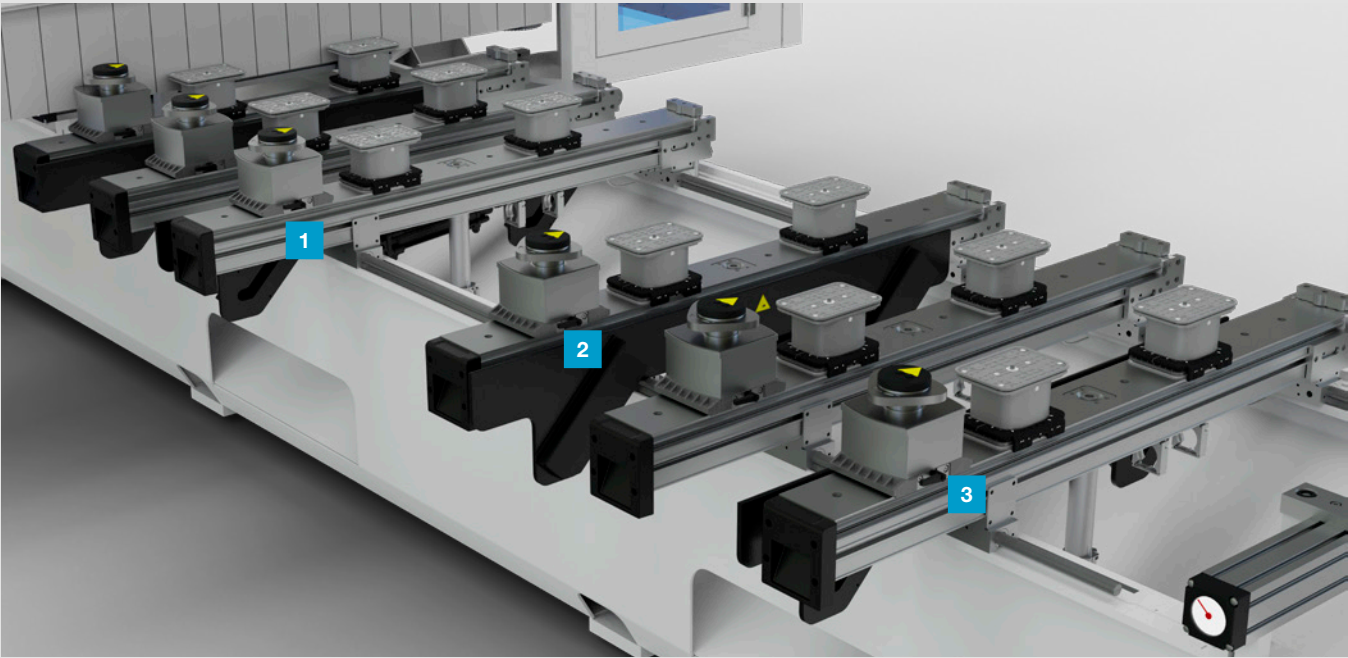
- 1** Consoles with vacuum cups
- 2** Workpiece feeding rail
  - 4 solid feeding rails to ease »sheeting« of heavy workpieces
- 3** Measuring tape
  - For positioning of suction cups



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

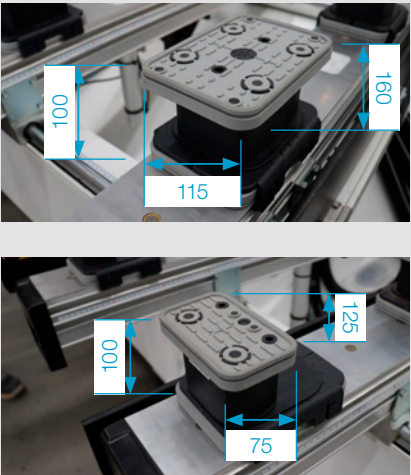


**Electronic cylinder surveillance**  
Enhanced security with the electronicsurveillance of lower cylinder positions at all integrated stops

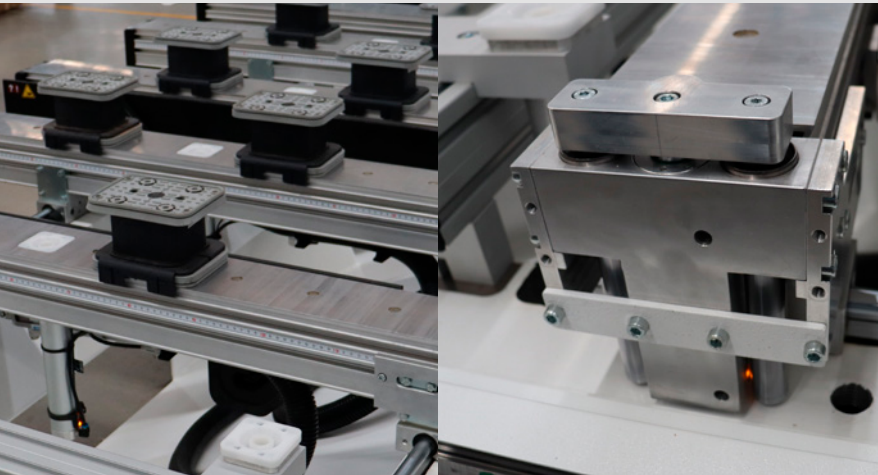


5 Axis machine console system suitable for 100 mm height Vacuum cups

- 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



12 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.



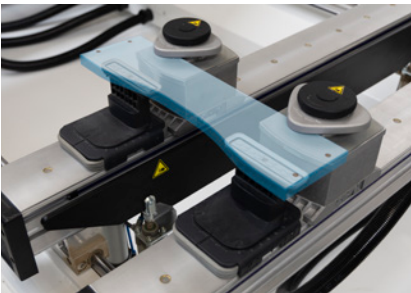
**Workpiece feeding rail**  
Solid feeding rails to ease placing of heavy workpieces.



**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

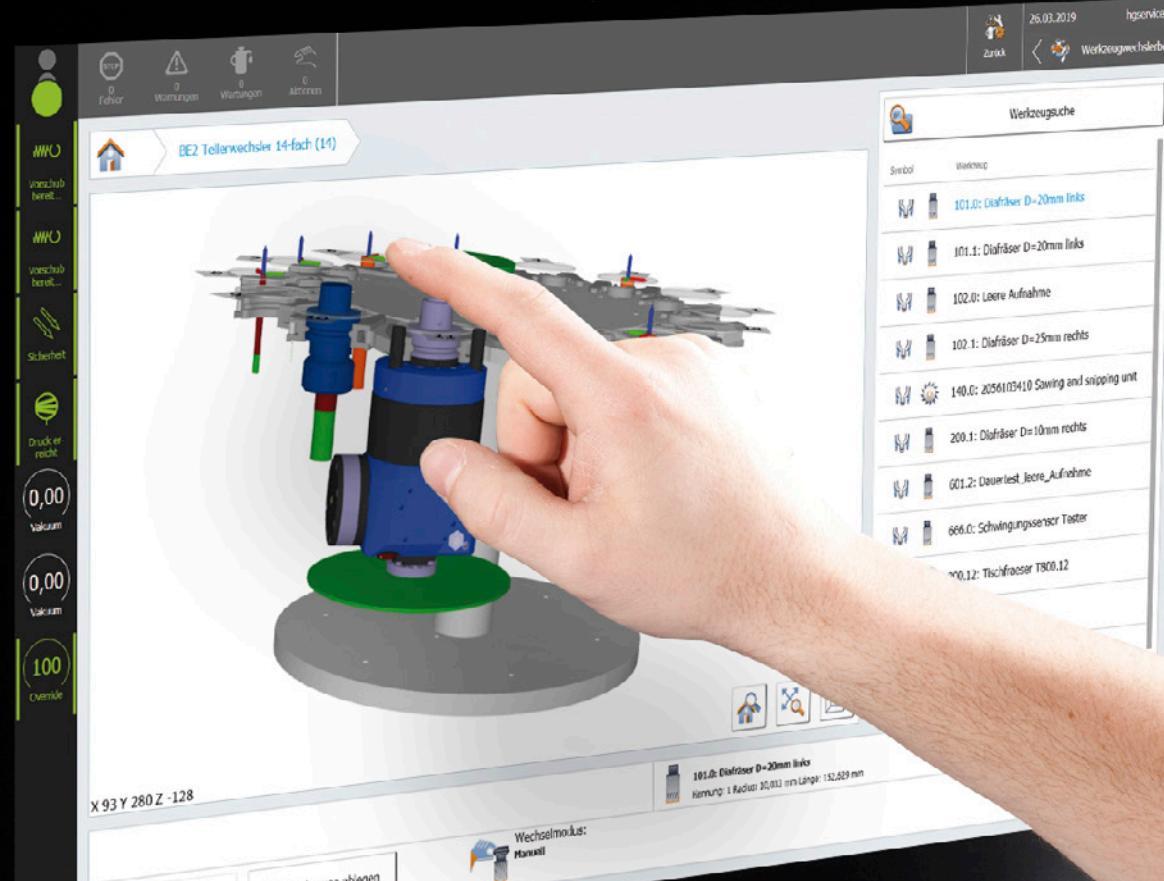


**Option: Base plate module**  
For mounting on the consoles as the basis for special clamping fixtures.



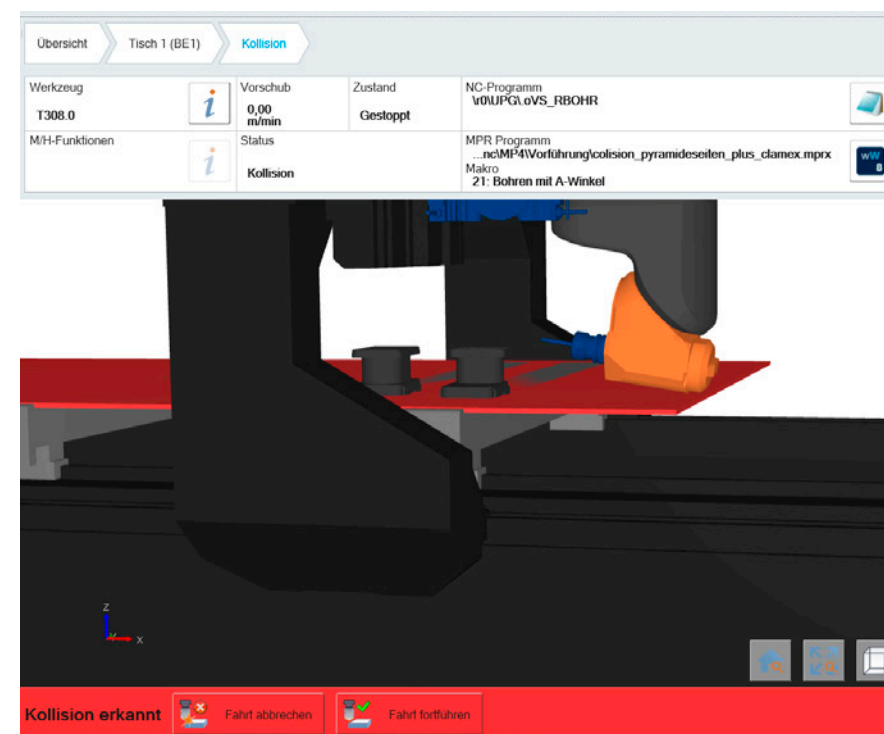






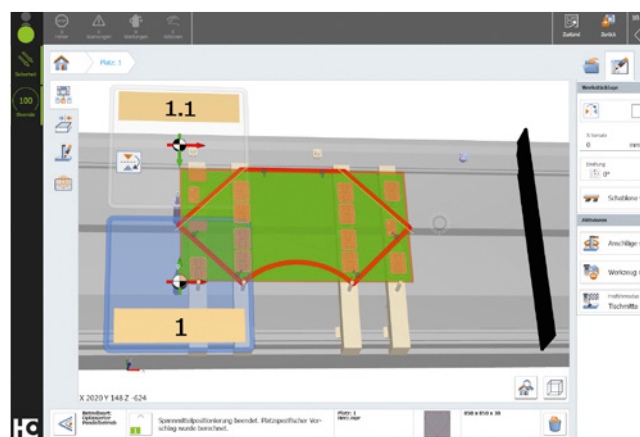
#### powerTouch PC87 with full touch operation

- 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



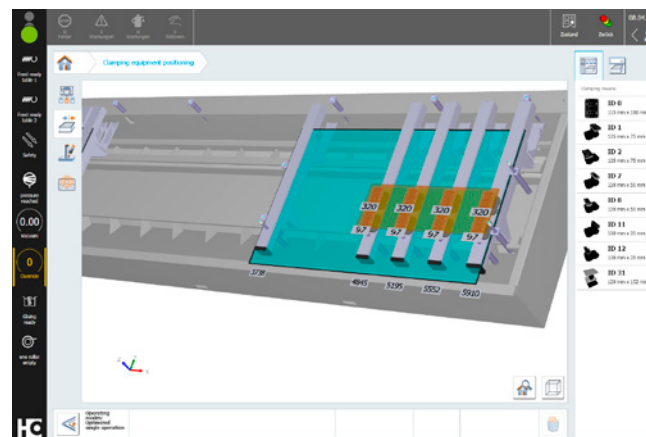
#### collisionControl – permanent security for your machine

- 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



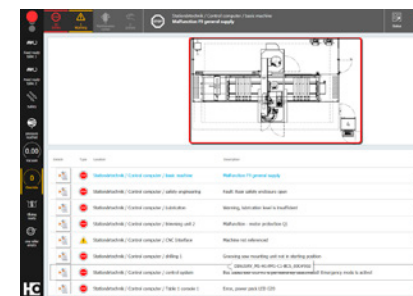
#### Slot assignment

- 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



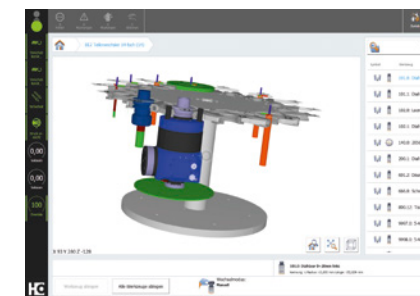
#### Automatic suction unit recommendation for workpiece or entire table

- 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



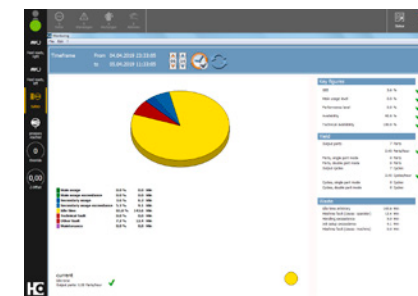
#### woodScout – help in your language

- 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

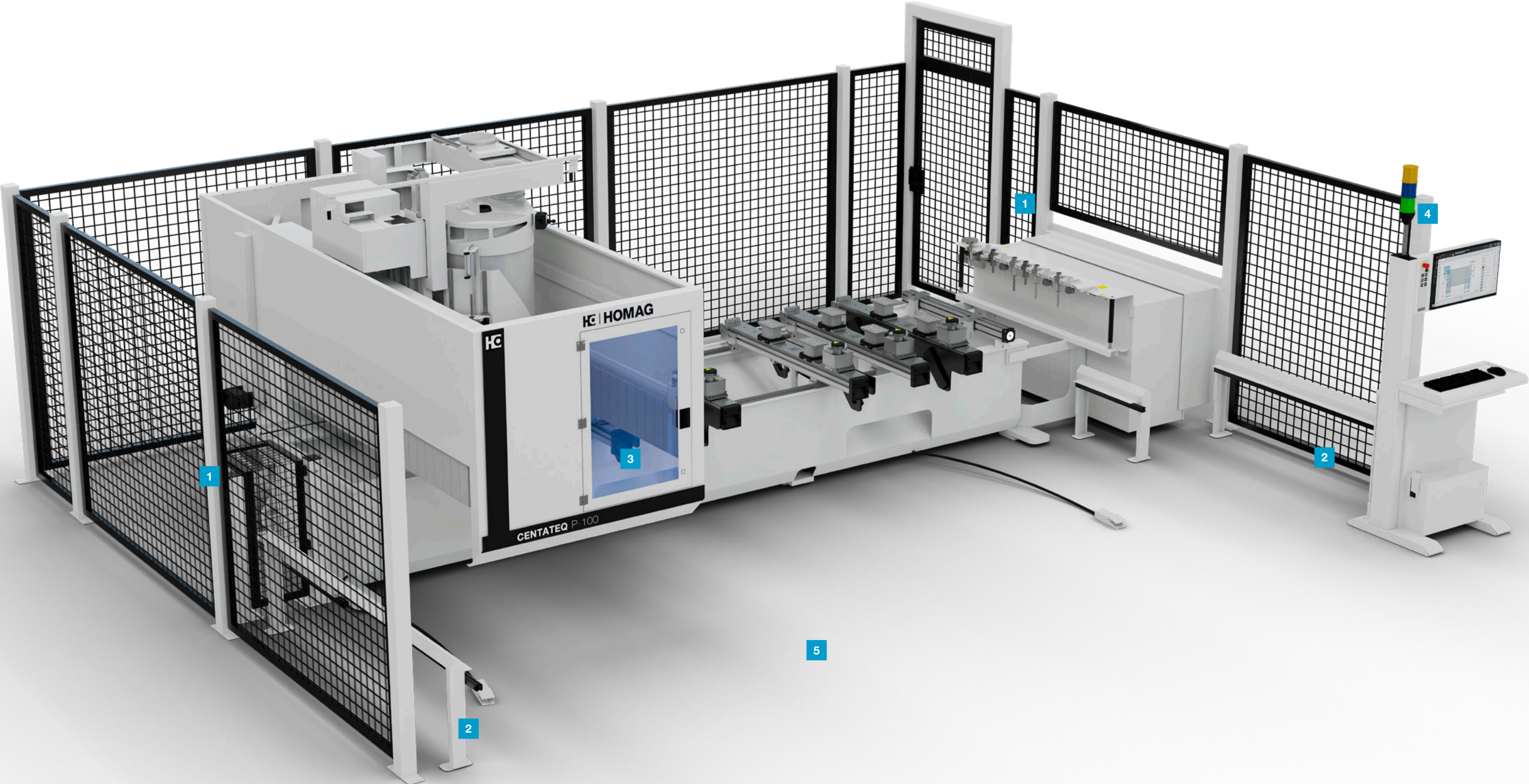
- Record quantities and actual operating times on the machine
- 3D representation of the tools and units
- Graphic setup of the tool changer using drag & drop



#### 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



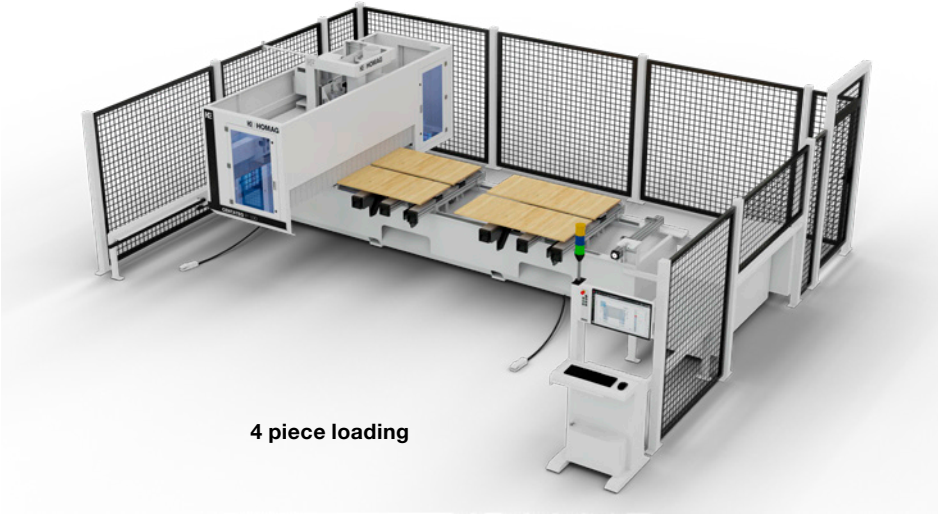


**Comprehensive safety concept**  
Safety first – because operator's safety is our highest priority

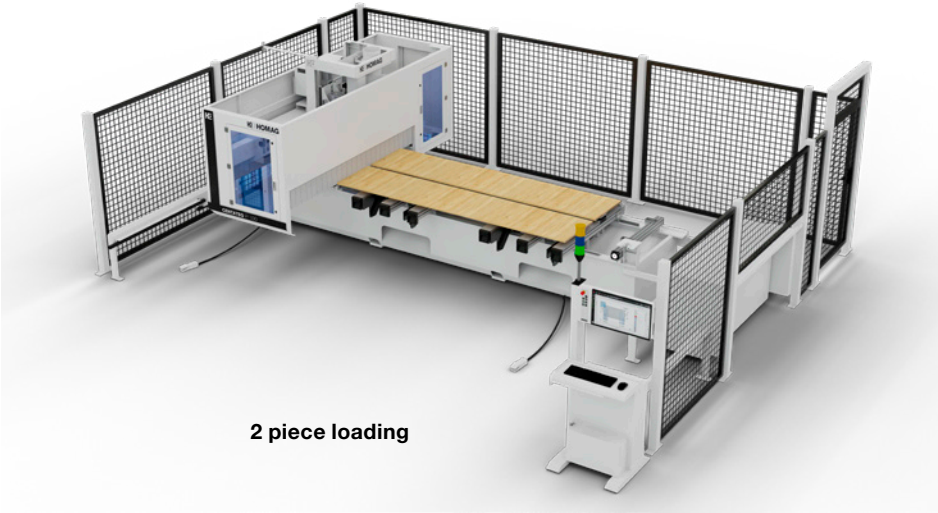
- 1 Safety fencing with free access from front
- 2 Front-mounted dual light barriers on each side of the machine, halts its operation if they detect human intrusion
- 3 Optimal view with a large viewing window to ensure maximum protection for the operator
- 4 Tower light indicates the status of the machine operation
- 5 No obstructive Safety mats



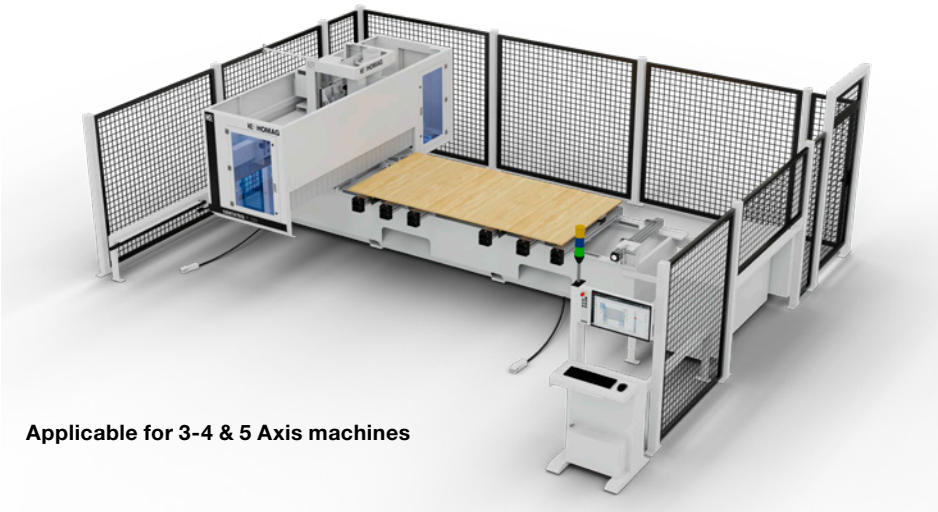
# Handling Concept 3-4 & 5 Axis CE Machines



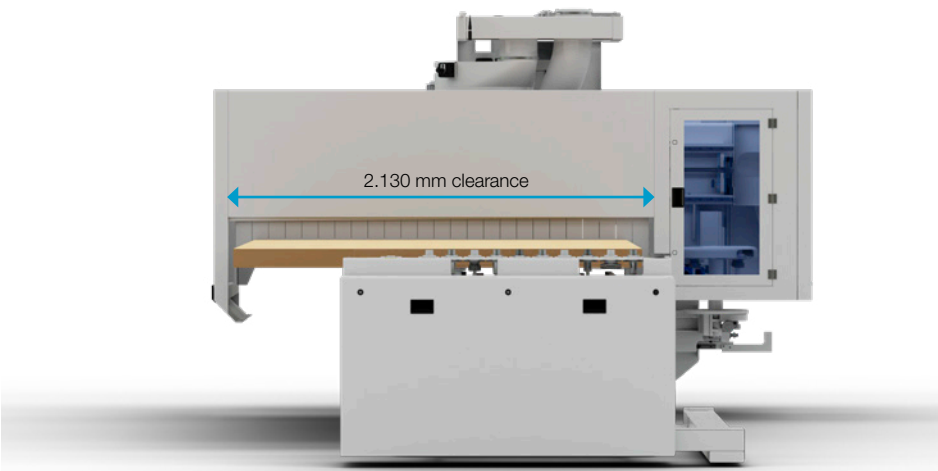
4 piece loading



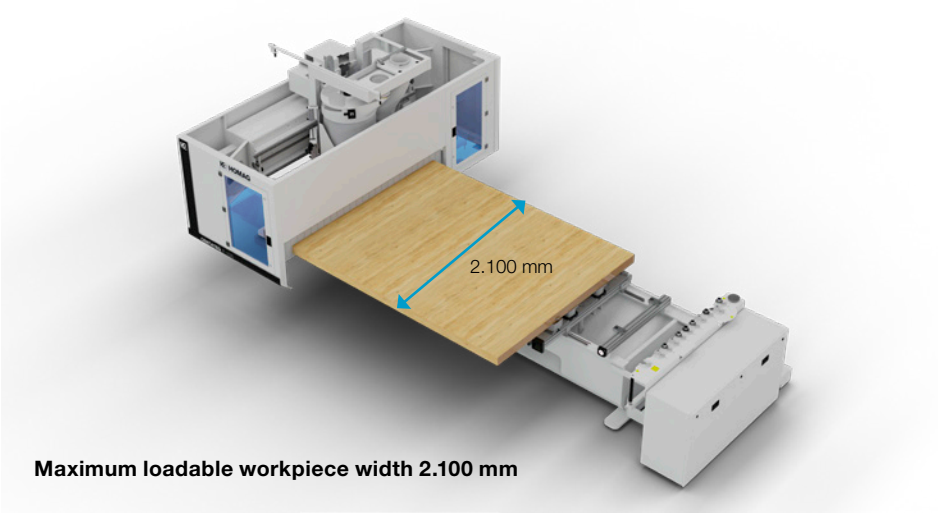
2 piece loading



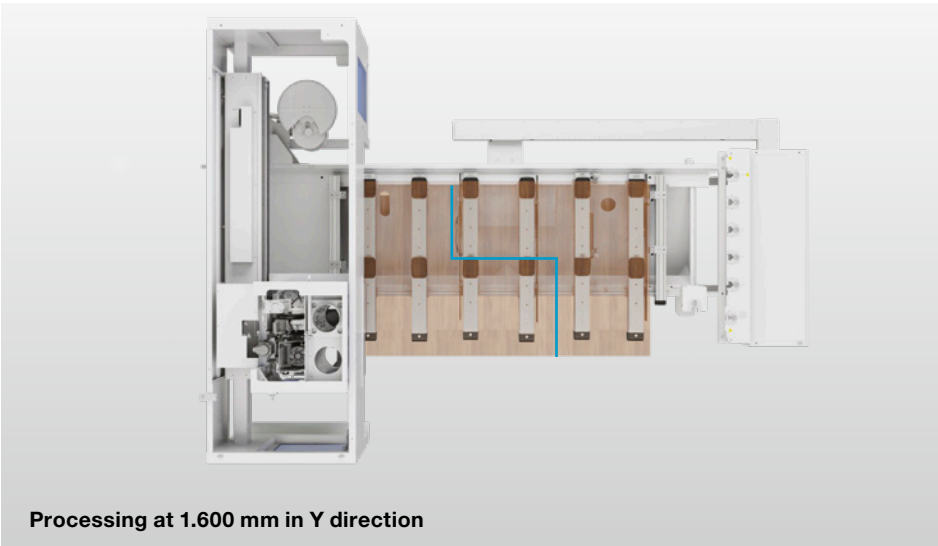
Applicable for 3-4 & 5 Axis machines



Maximum clearance distance 2.130 mm



Maximum loadable workpiece width 2.100 mm

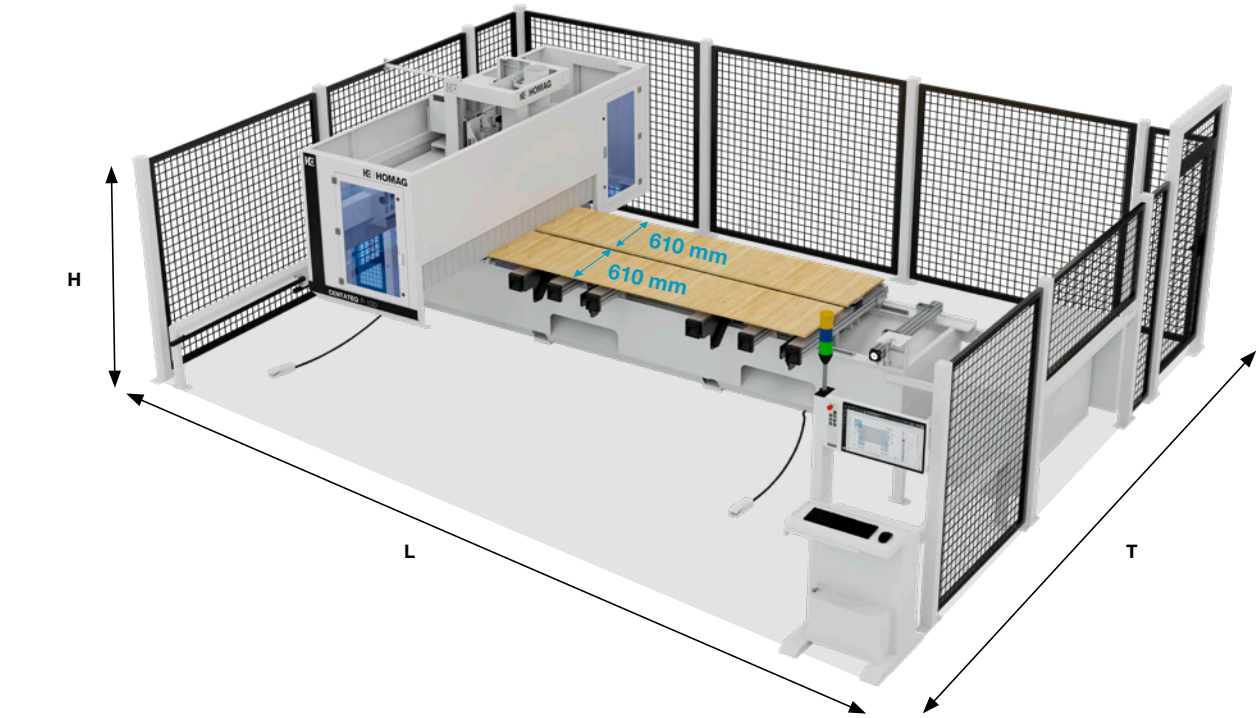


Processing at 1.600 mm in Y direction




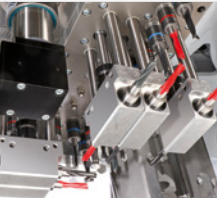



Technical data

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			1.400			
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	12			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

SUMMARY: CONFIGURATION (STANDARD / OPTIONAL)						
No of Axis	Model	Spindle	C-Axis	5th Axis	10 Station Linear	
					8 Station Rotary	
3-4 Axis	Professional	Air Cooled	+	-	+	✓
5 Axis	Premium	Liquid Cooled Drive 5CS *	-	✓	✓	✓

SUMMARY: CONFIGURATION (STANDARD / OPTIONAL)					
Drilling Gear					Laser Cross Hair
Vertical	Horizontal in X	Horizontal in Y	Grooving saw Details	Feature Type	
					
V8	H4	H2	Ø 100, X	✓	✓
V12	H4	H4	Ø 100, X	+	
V21	H6	H2	Ø 125, X-Y	+	
V8	H4	H2	Ø 100, X	✓	✓
V12	H4	H4	Ø 100, X	+	
V21	H6	H2	Ø 125, X-Y	+	

LEGENDE	
Standard	✓
Optional	+



# VALYOU

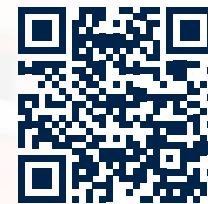
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- ✓ Always helpful

**HC CREATE DATA**

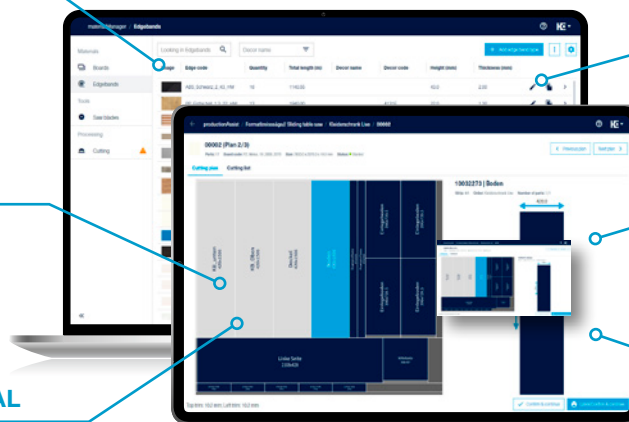
**ORGANIZE HC**

**HC USE SUPPORT**

**OPTIMIZE CUTTING HC**

**HC MANAGE MATERIAL**

**OPTIMIZE NESTING HC**



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