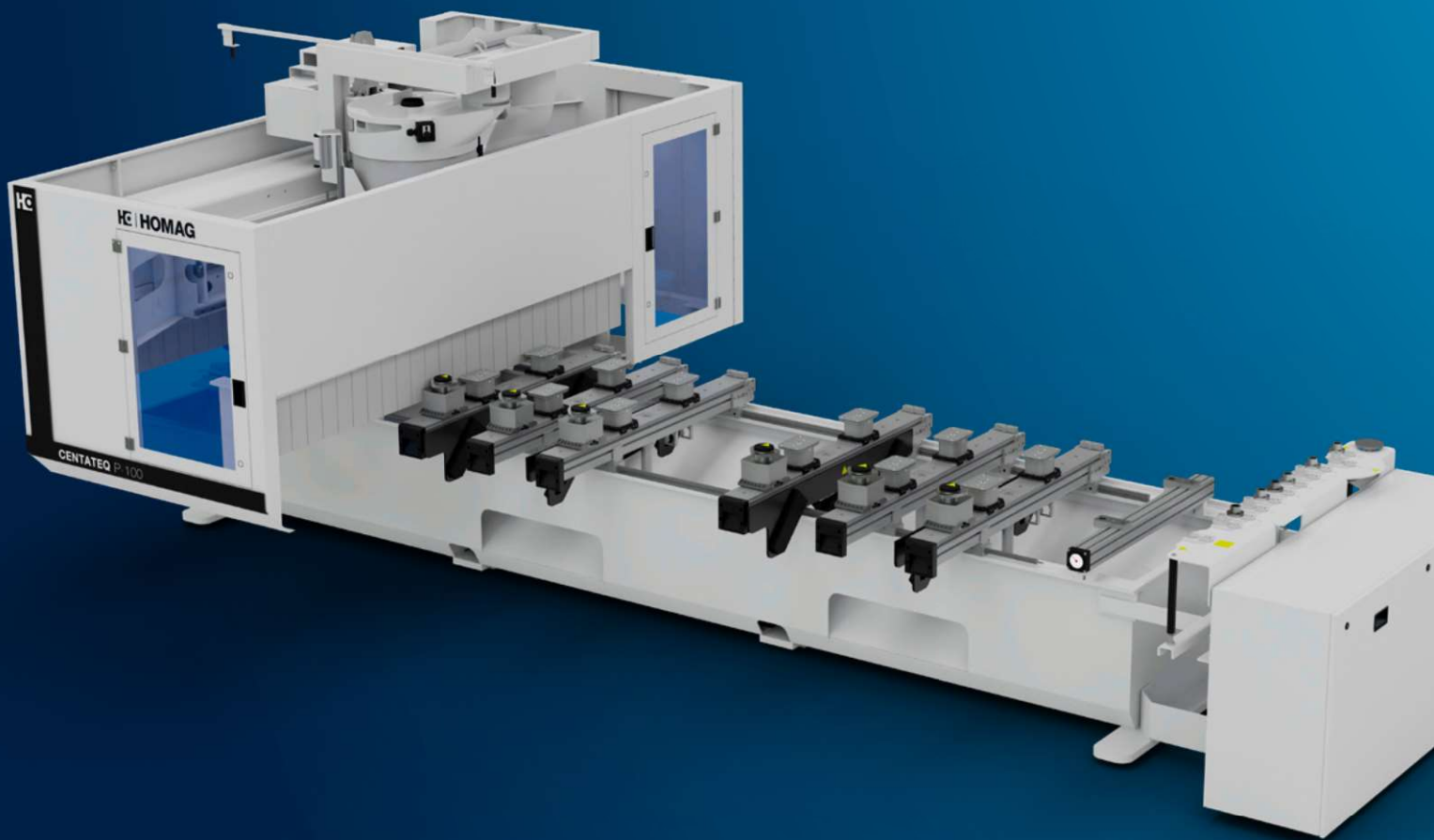


CENTATEQ P-100

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 KALLESQE 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

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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

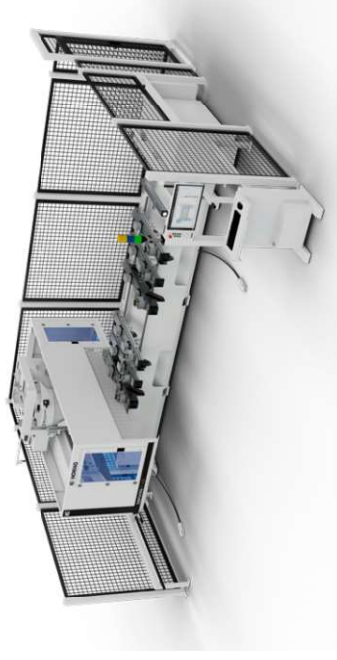
- Suitable for 3-4 & 5 axis Applications
- Versatile processing center with 4-field loading
- Routing up to 1.600 mm in Y direction and a software optimized working field
- Flexible and customizable for multiple configurations
- Variable processing speed and configurable drill blocks with grooving saw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



6a

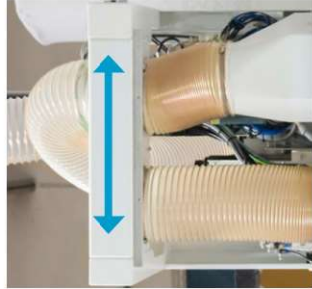


6b

- 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

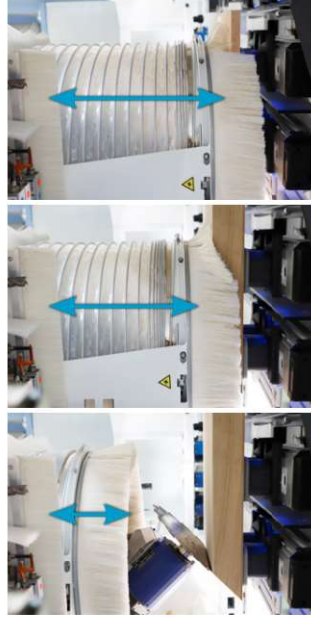
- powerControl with powerTouch
- 24" Full-HD multitouch display
- USB frontside bus
- Ethernet connection 10/100 Mbit
- Inclusive flexible mobile handheld terminal for easy operation

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



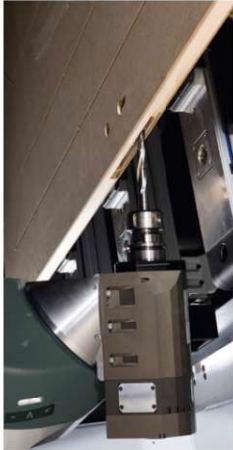
Routing of a dovetail joint for upright / transom constructions



Chamfer trimming on a table top



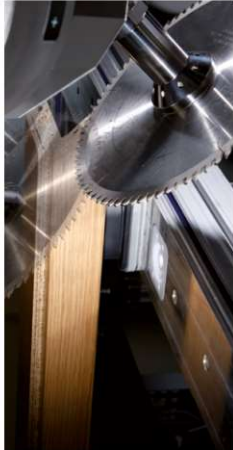
Square corner routing for a glass rebate



Lock case routing



Step drilling for drill-in hinges



Precise, splinter-free miter cuts

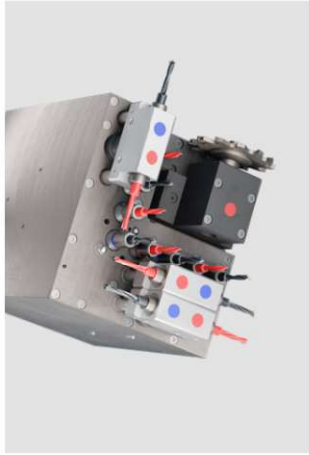


Holes for piling at narrow angles

HOMAG drilling technology: The best of the best

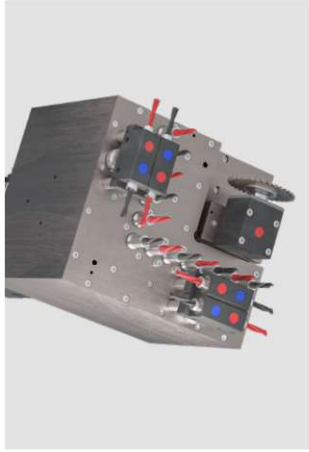
High-speed drilling technology, patented clamping of the spindle and Weldon Change System for tools. Precise drilling, fast cycles, maintenance-free and durable construction.

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



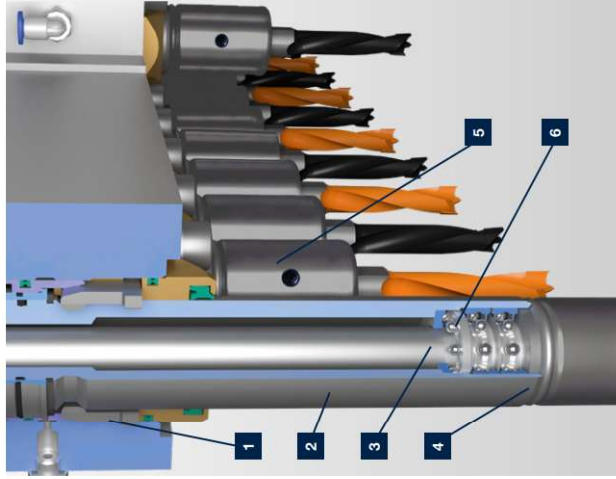
Drilling gear V12/H8GX (option)

- 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°)



1 Spindle lock for accurate drilling depth

Double-acting cylinder: Forward and return stroke of the spindle with pneumatics

3 Large diameter of the sleeve and short and constant distance of the drill bit to the bearing for high lateral stability and high precision

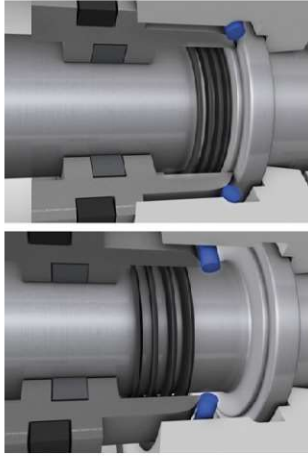
4 Vertical sleeve: The vertical drill sleeve is installed, the drilling spindle is housed in the sleeve

5 Weldon change system with clamping screw

6 Separate axial bearing to absorb the direct drilling forces



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.



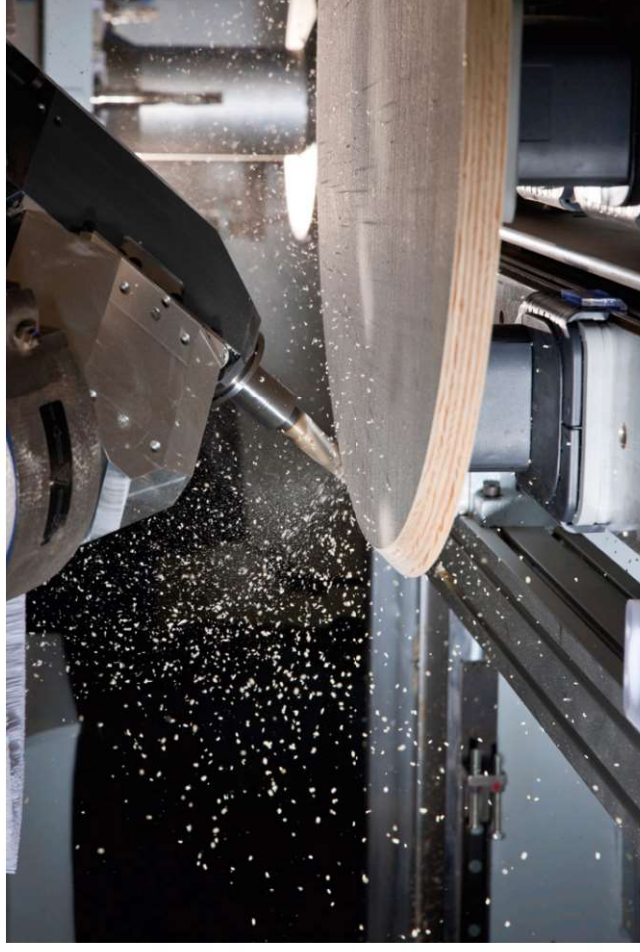
Spindle sensor
Routing spindles with hybrid storage offer a long service life. An additional vibration sensor (option) detects tool unbalances and protects the spindle against overloading, due to high feed speeds for example.

Routing spindle



Configuration

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



Option: The smart DRIVESCS 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)

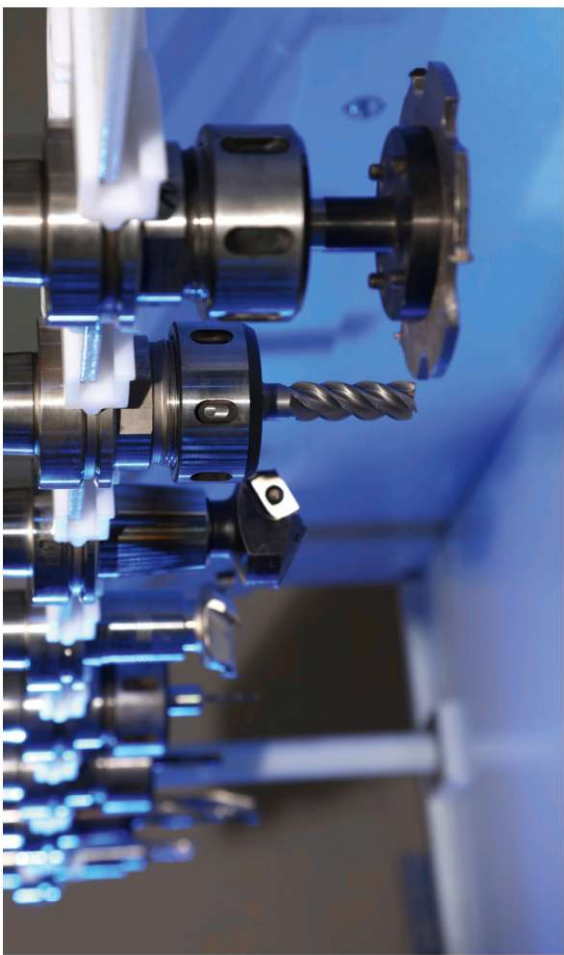
- 1 Tool change magazine, with 10 slots and integrated tool transfer station, laterally mounted.
- 2 One slot is prepared to accommodate a saw with a diameter of 350 mm.



8-fold tool changer



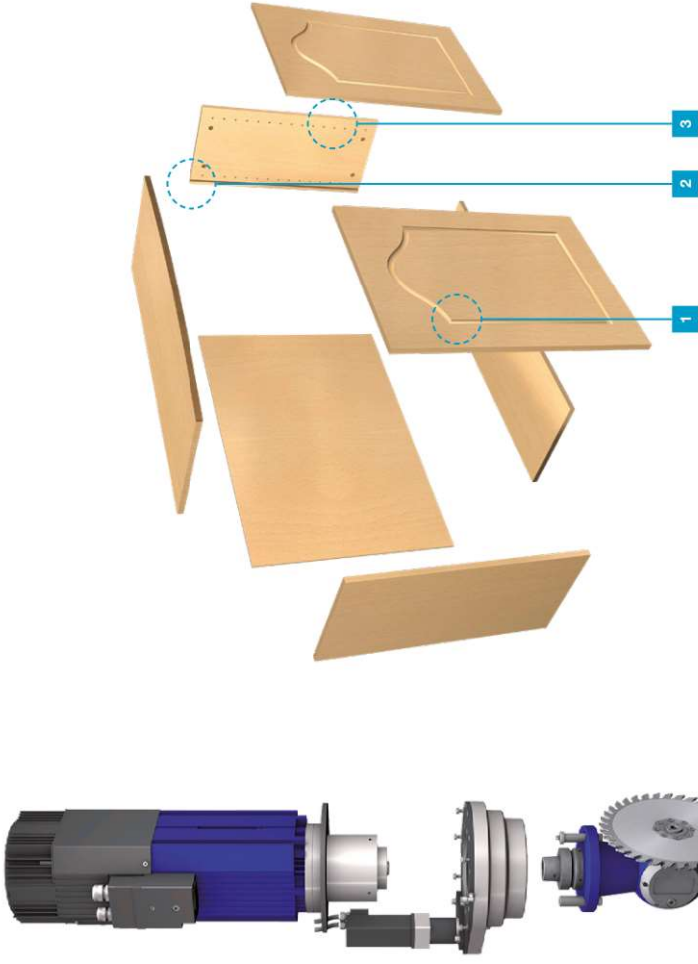
- Tool pick-up station**
- Safe and quick fitting of the tool change magazine
 - High safety by sensor monitoring if the tool pick-up station is free or occupied



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



Trim a decorative groove



Saw the groove for the rear wall



Hole series for shelves



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.

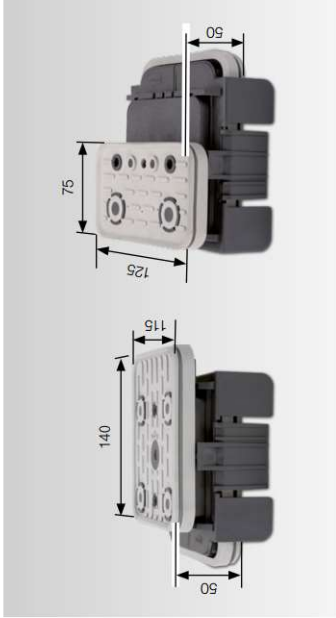
Accurate and safe with the console table

Thanks to the patented system of solenoid valves, vacuum suction units and other damping 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

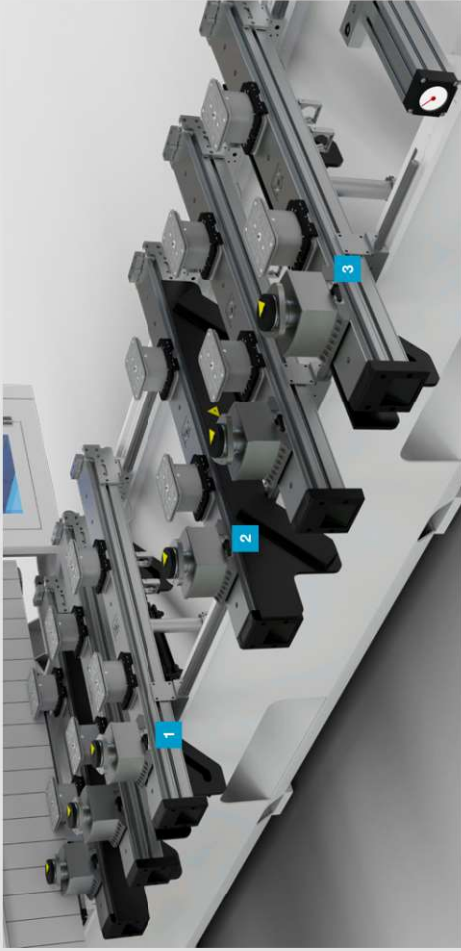
- 1** Consoles with vacuum cups
- 2** Workpiece feeding rail
 - 4 solid feeding rails to ease »sheeting« of heavy workpieces
- 3** Measuring tape
 - For positioning of suction cups



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

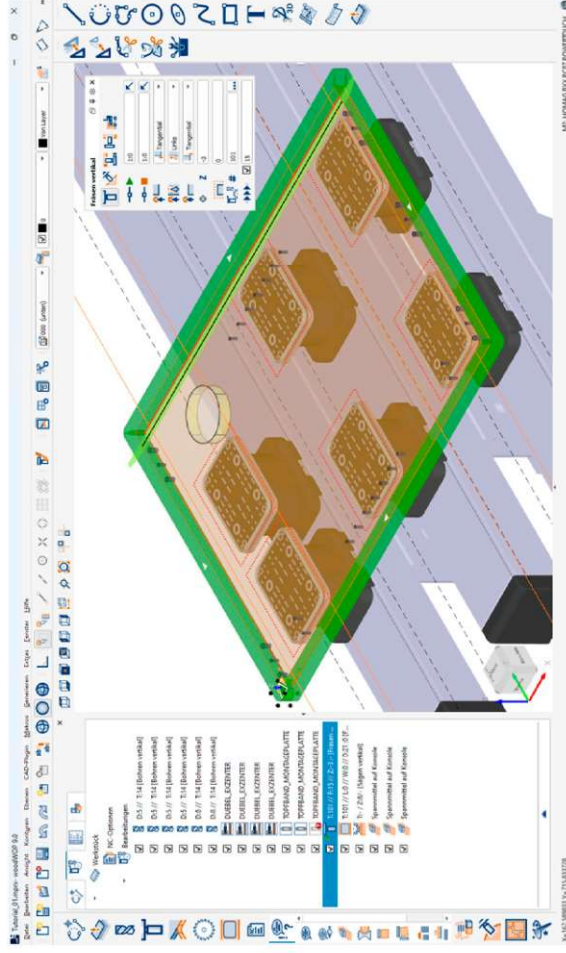
For mounting on the consoles as the basis for special clamping fixtures.

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.

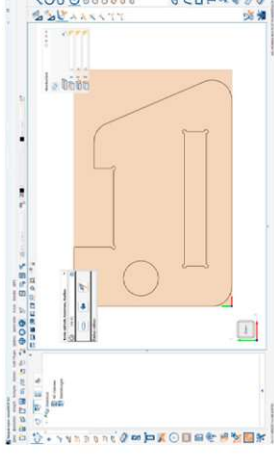


woodWOP – efficient thanks to fast programming

- 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

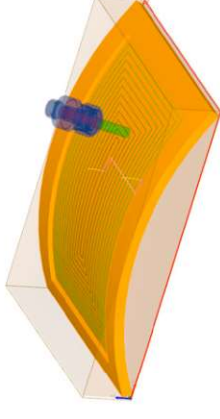


More information
you find on our website in the brochure
»Software from the HOMAG«



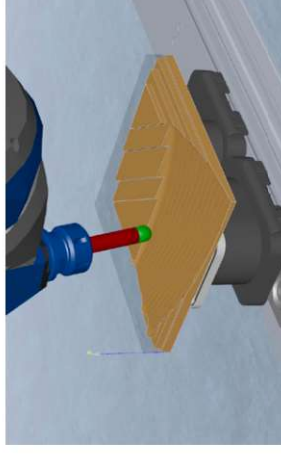
woodWOP CAD-Plugin

- 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



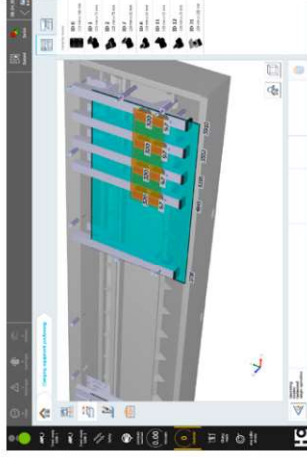
powerTouch PC87 with full touch operation

- 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



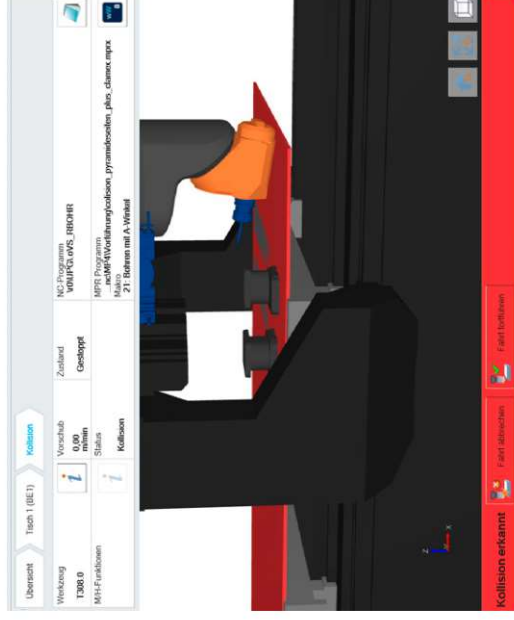
Slot assignment

- 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



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



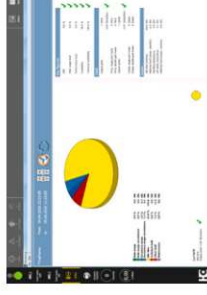
woodScout – help in your language

- 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



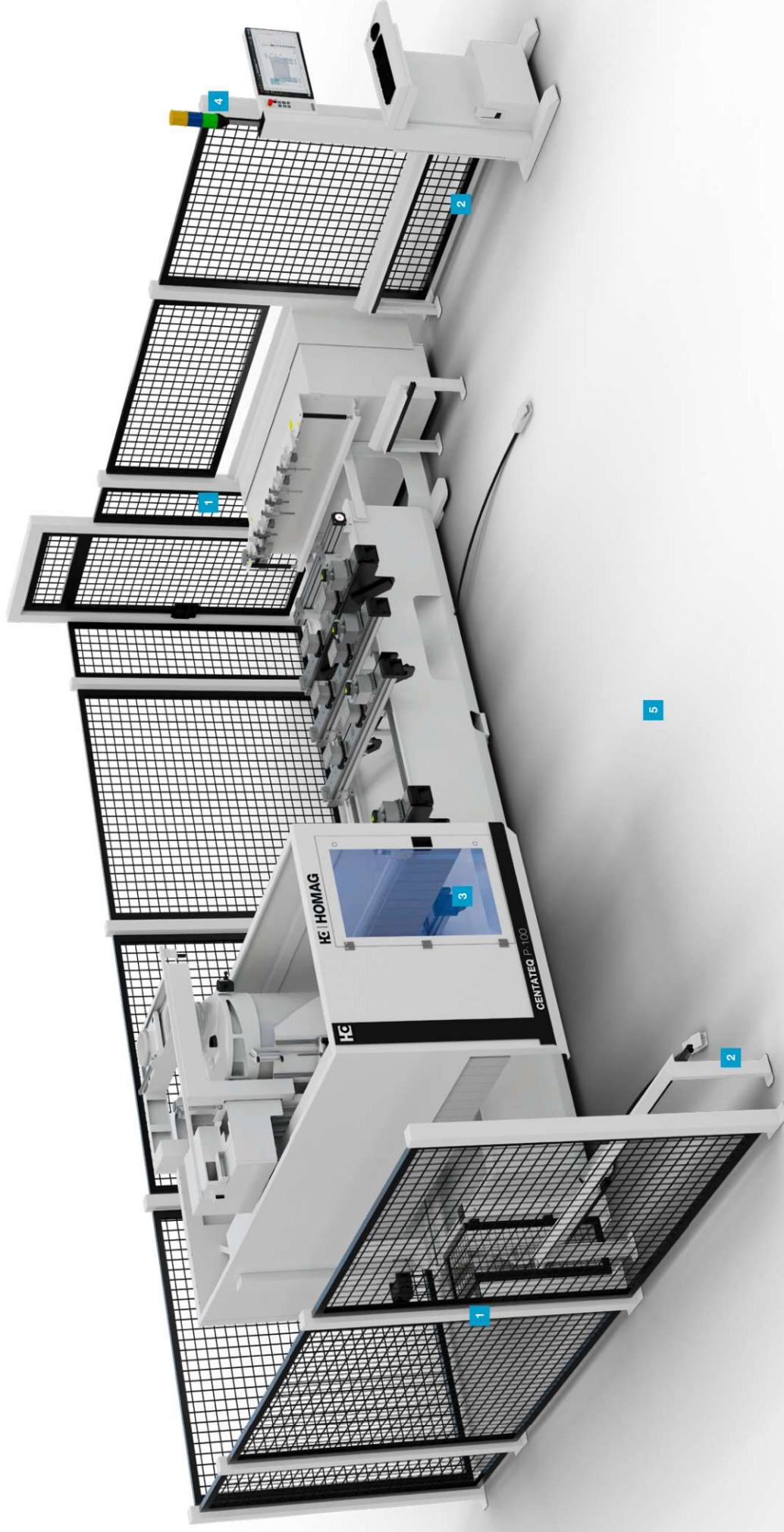
Graphic tool data base

- 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

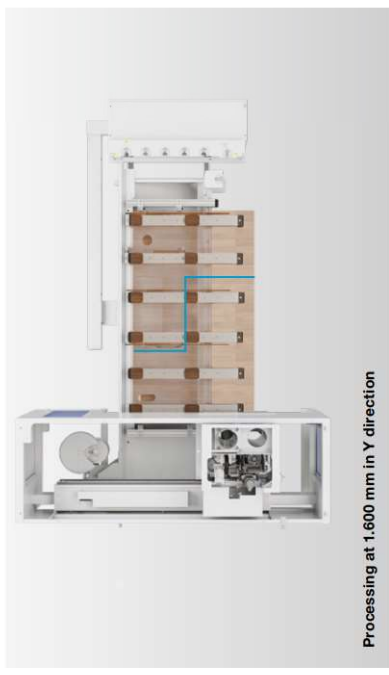
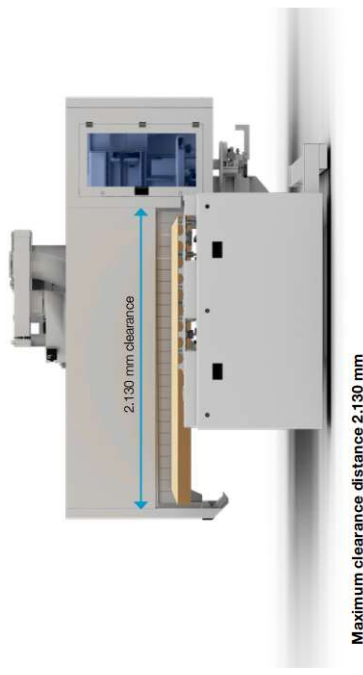


Comprehensive safety concept

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

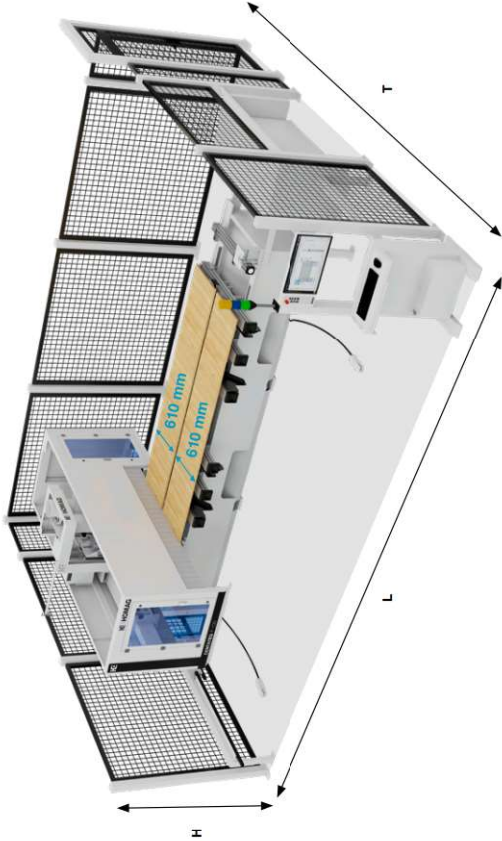
Handling Concept 3-4 & 5 Axis CE Machines



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			

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	-	✓	✓	✓



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

SUMMARY: CONFIGURATION (STANDARD / OPTIONAL)

Drilling Gear				Feature Type	Laser Cross Hair
Vertical	Horizontal in X	Horizontal in Y	Grooving saw Details		
	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

Our Mission, Your Performance.

Apps and digital assistants.

Quick and easy support in your machine environment.

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

More information at
digital.homag.com



WE HAVE DEVELOPED POWERFUL AND SMART SOLUTIONS FOR YOU:

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



Fast support:
94% resolution rate
via our hotline

Close to you:
1,350 service experts worldwide

We get things moving:
Over 1,000 worldwide spare parts
shipments each day

No one else has that:
Electronic documentation on over
150,000 machines, available in 28
languages

LIFE CYCLE SERVICES

Improved performance, more efficient processes, faster help, assurance of availability and smarter working. VAL YOU comes from VALUE ADDED. Our objective is derived from this name: We create added value for your business by helping you get the most out of your processes. Every day.



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YOUR SOLUTION