

DRILLTEQ V-110

The compact CNC processing center.
5 m², that's all it takes.



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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DRILLTEQ V-110 – 5 m², that's all it takes.

Like its predecessor, the DRILLTEQ V-200, this machine impresses with its small footprint, yet still offers extensive and customizable machining capabilities. In just under 5 m², this compact CNC machine handles key steps in cabinet fabrication. New features include an expanded range of workpiece machining capabilities, the PC87 control system for more flexible and intuitive setup options, and a freely selectable range of equipment configurations.

DRILLTEQ V-110

Highlights at a glance

MINIMAL SPACE REQUIREMENT

With its 5 m², the machine fits in seamlessly.

LARGE RANGE OF PROCESSING DIMENSIONS

Up to 60 mm thickness, 850 mm width, and 2,500 mm in length (optionally 3,050 mm)

EXTENSIVE FEATURES

1 milling spindle, up to 19 drilling spindles, and 1 grooving saw.

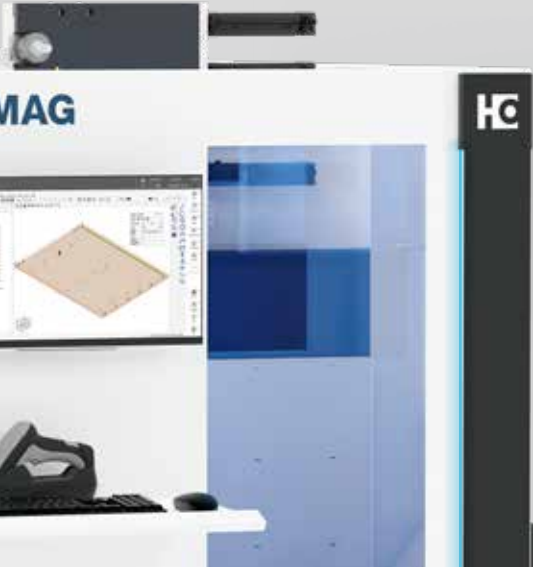
ENERGY-EFFICIENT MACHINING

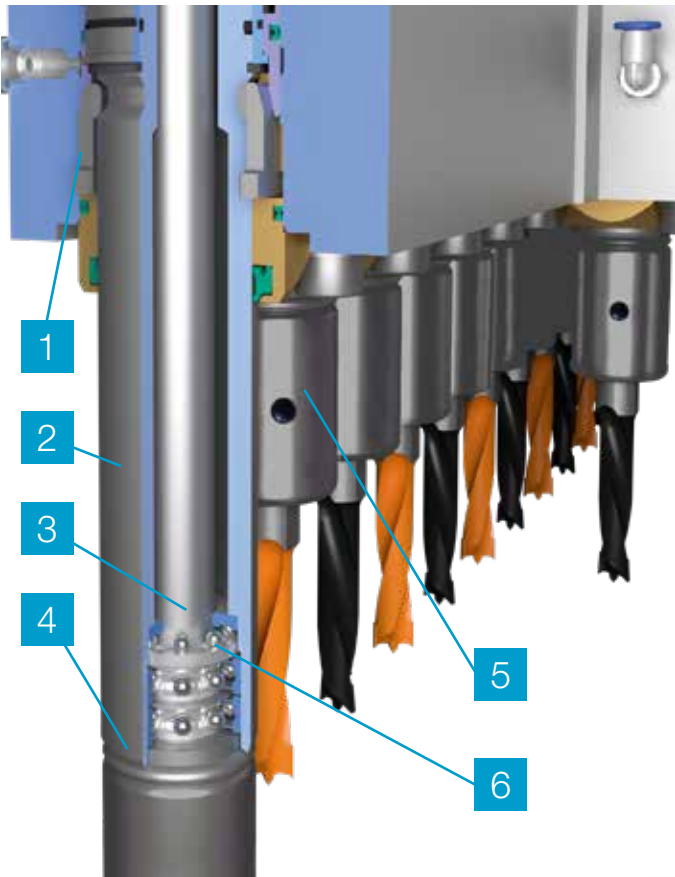
The clamping system does not require a vacuum. This saves energy and costs.



Optional Design Accent: LED light column in “HOMAG Blue”

Our light column combines modern machine design with first-class quality. It aesthetically rounds off our award-winning machine design and provides a visual accent in your production.



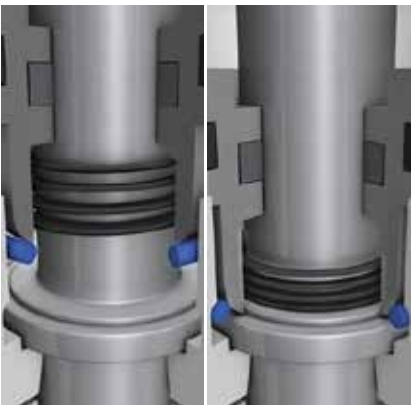


- 1 Spindle lock for exact drilling depth
- 2 Double-acting cylinder: forward and return stroke of the spindle with pneumatics
- 3 Large diameter of the sleeve and short and constant distance of the drill tip to the bearing for high lateral stability and high precision
- 4 Standing sleeve: The standing drill sleeve is issued, the drill spindle is mounted in the sleeve
- 5 Weldon change system with tensioning screw
- 6 Separate axial bearing to absorb the direct drilling forces

HOMAG drilling technology – The best of the best

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

Additional optional attachment units expand the machine's range of applications.



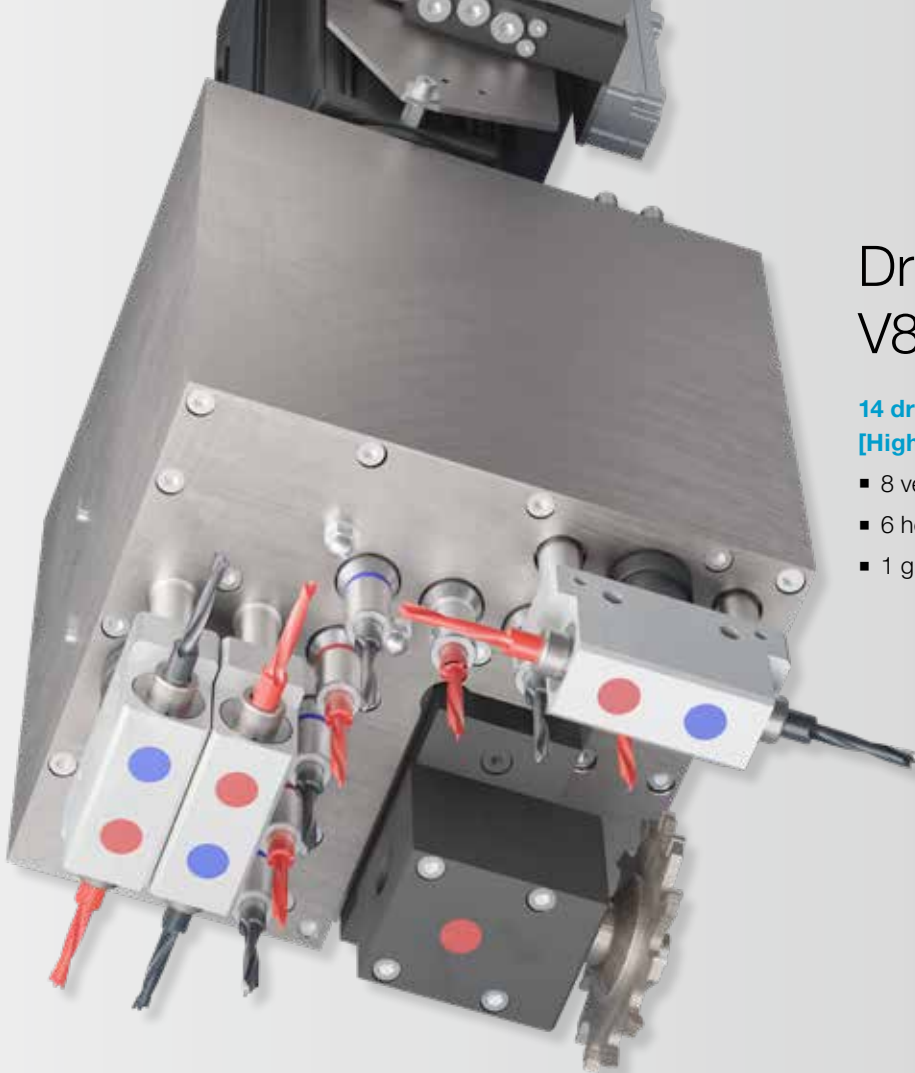
Automatic spindle lock
System for an always exact drilling depth with different materials. With speeds from 1500-7500 1/min. for high feed rates or short drilling cycles.



Configuration choice A: Weldon change system
For a drill bit change with tools.



Configuration choice B: Drill quick-change system
Quick-change system for a drill change without tools to reduce setup times.

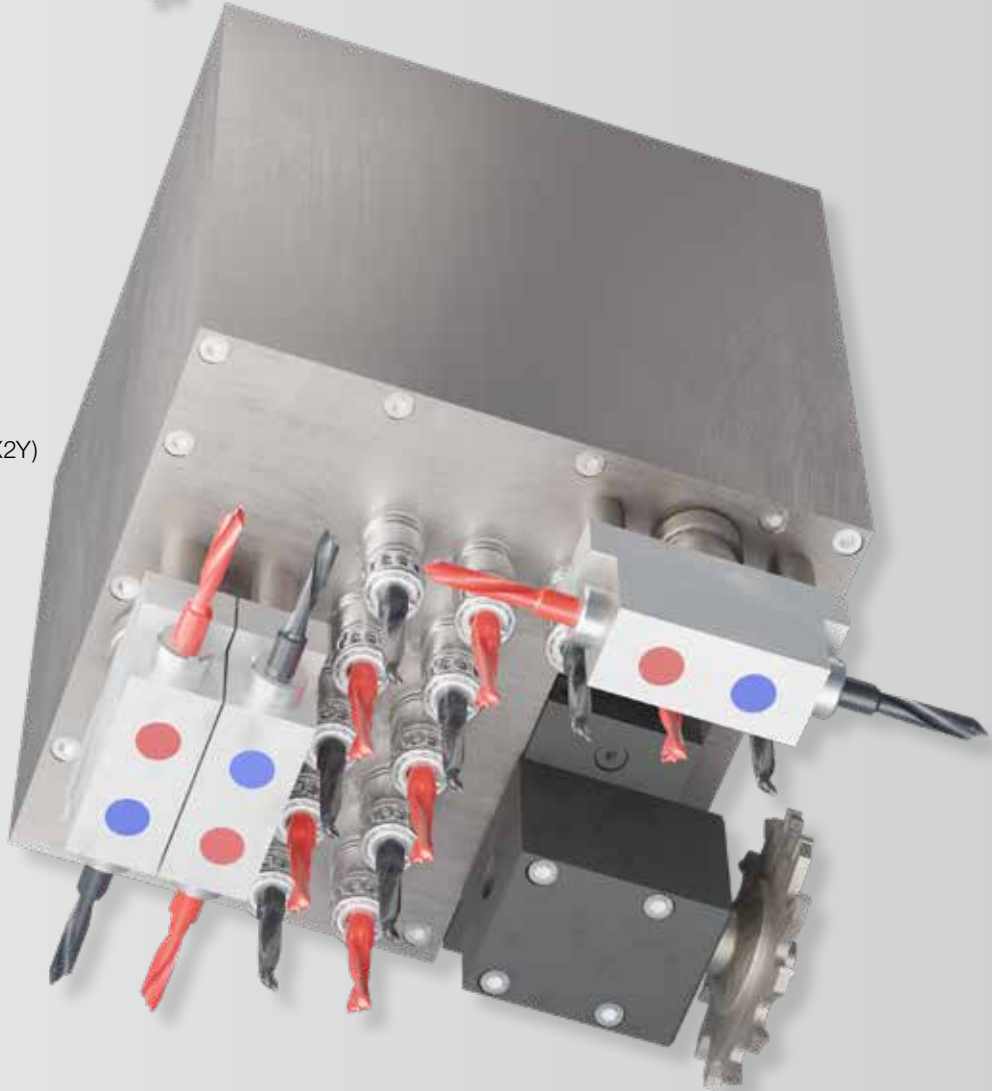


Drilling gear V8H6

- 14 drilling spindles [High-Speed 7500]**
- 8 vertical drilling spindles
 - 6 horizontal drilling spindles (4X2Y)
 - 1 grooving saw Ø 100 mm (0°)

Drilling gear V13H6

- 19 drilling spindles [High-Speed 7500]**
- 13 vertical drilling spindles
 - 6 horizontal drilling spindles (4X2Y)
 - 1 grooving saw Ø 100 mm (0°)



Tailored routing spindles: Two options for your success

Choose the exact clamping technology that perfectly aligns with your production strategy.



Option 1

**5 kW Milling Spindle - ETP Tool Interface –
The Specialist for Precision & Smooth Operation**

Perfect for highly efficient processes with a fixed tool configuration.

- Your Added Value: Maximum cost-efficiency upon investment paired with outstanding reliability in continuous production.
- Your Benefit: The ETP Hydro-Grip technology delivers excellent vibration damping via an integrated oil cushion.

Option 2

**10 kW Milling Spindle - HSK63F Tool Interface –
The All-Rounder for Power & Automation**

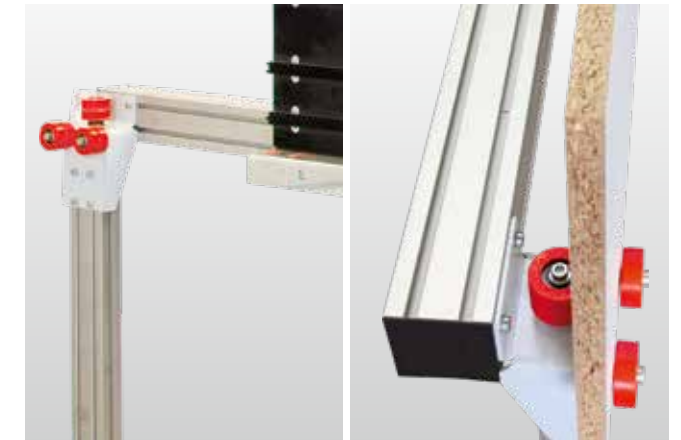
Ideal for versatile milling operations.

- Your Added Value: Full flexibility through industrial CNC standards and tool change.
- Your Benefit: A 10 kW spindle enables maximum feed rates and the shortest cycle times. The automatic tool changer runs multiple tools completely autonomously within the CNC program – with zero manual setup stops.



Workpiece load- and workpiece removal area

- Mechanical support via roller conveyor in the loading- and removal area of the machine



Working length extension

- Extension of the working length from 2500 to 3050 mm incl. roller conveyor

Workpiece handling

TOP EQUIPMENT RIGHT FROM THE BEGINNING: Already in the standard elementary technologies are included, which ensure sustainable highest processing quality.



Workpiece clamping device

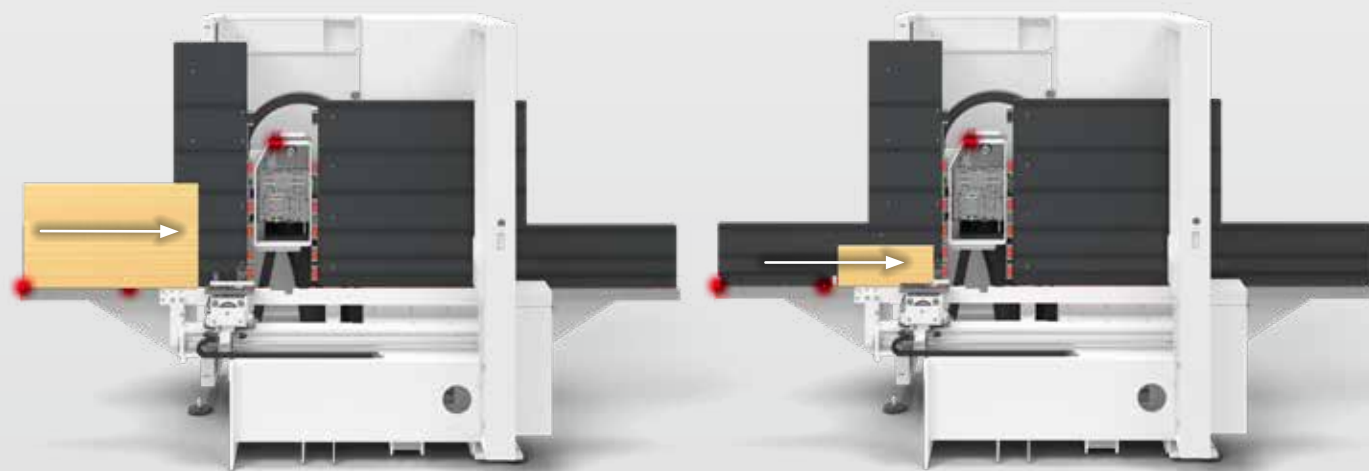
- Easy adjustment of the clamping device (manually) to the workpiece thickness (clamping device stroke 10 mm).
- For differences in the workpiece thickness of up to 10 mm it is not necessary to manually adjust the clamping device.



Option – Plausibility Check

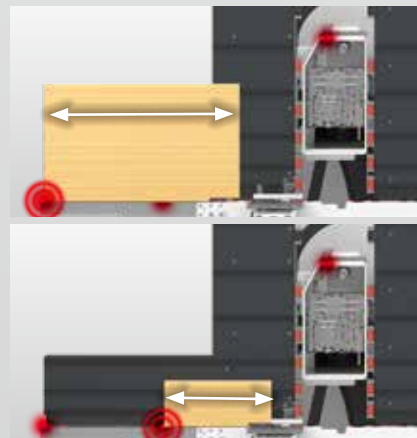
BENEFIT FROM ADDITIONAL SAFEGUARDING OF PROCESSES

Control of the workpiece by sensor technology in X- and Y-direction. Comparison with the values in the database. If the defined tolerance value is exceeded, the current process stops. At the same time the operator receives a message to correct the workpiece. This way you remain on the safe side.



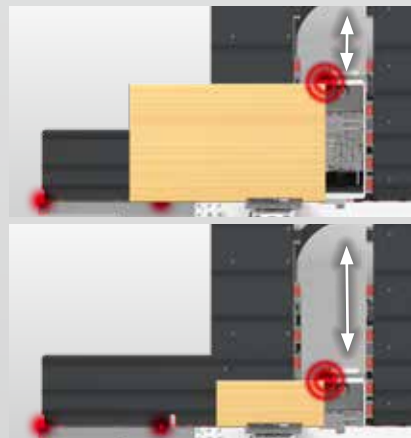
Step 1:

- Positioning the workpiece



Step 2:

- Control of the workpiece by sensor technology in X-direction. Depending on the workpiece dimensions the shortest distance to the next sensor is selected.



Step 3:

- Control of the workpiece by sensor technology in Y-direction



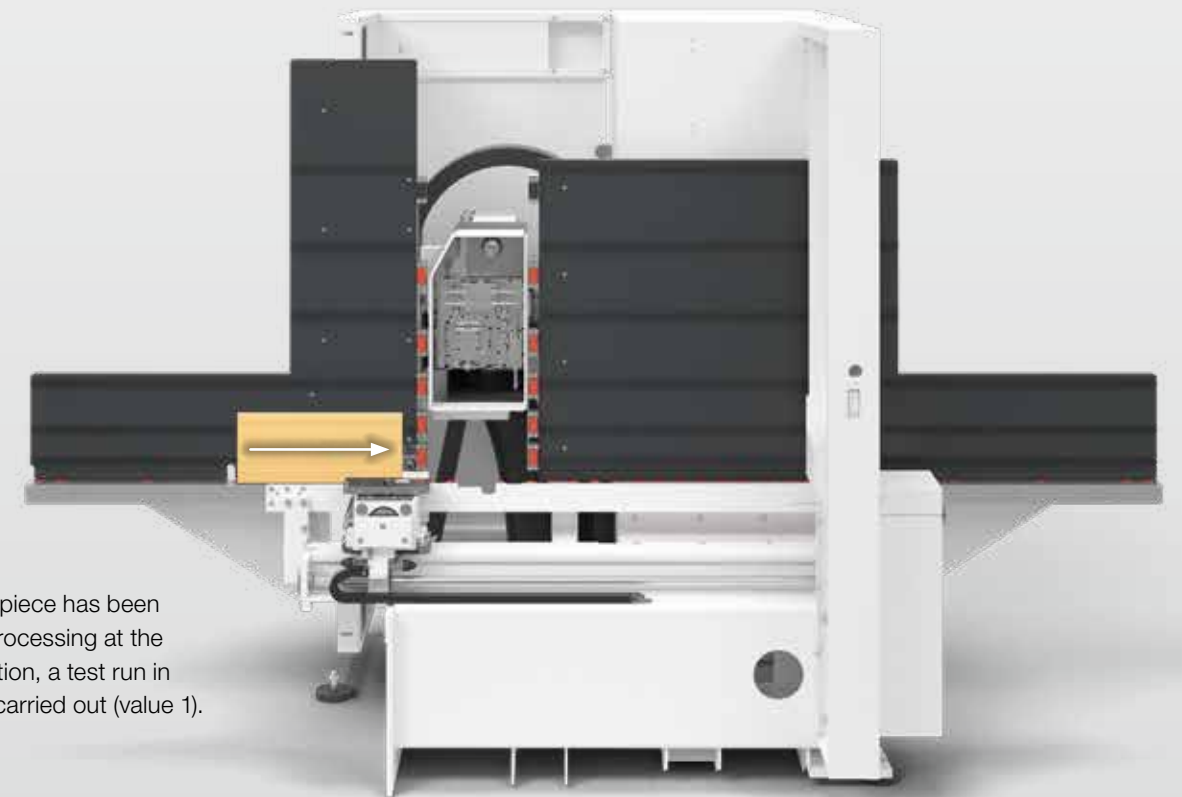
Step 4:

- Balancing the determined values with the program data:
- Tolerance of values < 5 mm – Program is continued.
- Tolerance of values > 5 mm – Program is stopped, advice to the operator to carry out the corrections.

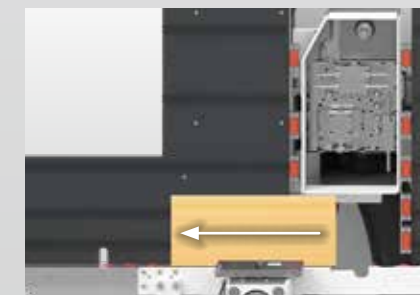
Option – Length-dependent processing in X-direction

AUTOMATIC ADJUSTMENT OF DRILLINGS DEPENDING ON WORKPIECE DIMENSIONS

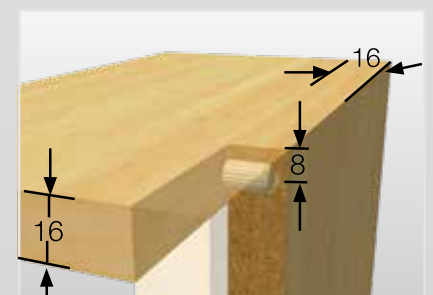
After the workpiece has been released for processing its length is measured accurately by a measuring run. Dimension-dependent drillings are then corrected automatically by possibly determined tolerances. You save time and gain quality.



- After the workpiece has been released for processing at the limit stop position, a test run in X-direction is carried out (value 1).



- Determination of exact workpiece length (value 2).



- Drills depending on dimensions are then automatically corrected by possibly determined tolerances.

Options



Option suction hood

- Enhancement of the suction power in the area of the routing unit for larger cutting cross-sections



Option Clamex processing

- Horizontal processing with Clamex disc router
- Vertical processing with Clamex end mill



Tool changer

- Automatic tool change magazine with 4 places



Furniture connectors

Hold together what belongs together

While working with the DRILLTEQ V-110, you will have a free choice of fastener technology in the future. Whether classic milling and drilling, or the production of pockets. You will have full flexibility.



- Continuous back panel groove
- Planar drilling operations for eccentric connecting fitting
- Classical dowel holes in the front
- Illustration shows the Minifix connector from Häfele



- Continuous back panel groove
- Front side routing with T-slot routing cutter
- Illustration shows the removable Clamex P-connector from Lamello

Option – Robot Connection

DRILLTEQ V-110 with robot. Safe, precise, automatic handling of workpieces for more efficient production.



Your benefits at a glance



More time for value adding activities through maximum technical availability.

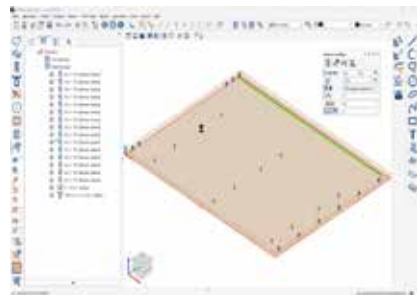


Perfect solution for future-oriented companies:

- Self-sufficient processing
- Compact installation area

All inclusive – Software

WITH THIS SOFTWARE PACKAGE YOUR ARE "READY TO RACE". Thanks to 30 years of experience and multiple installations worldwide, with woodWOP you get one of the most established CNC programming systems in the world.

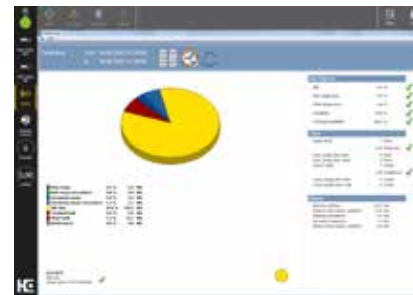


woodWOP | License for Machine

- Fast and intuitive operation through simple, direct navigation
- Arbitrary use of variables for flexible variant programming
- Quick creation of own components
- More programming security through 3D graphics of workpiece and machining operations

Join us online!

World's largest forum on the topic woodWOP:
forum.homag.com



MMR Basic

- Recording of quantities and actual operating times at the machine
- Integrated maintenance notes for optimal time- and quantity-based planning and execution of maintenance work



Slot assignment

- Simple control of machine functions via soft keys
- Graphical assignment in 3D
- Automatic mirroring and rotation of workpieces in the fixture.



woodWOP DXF Basic

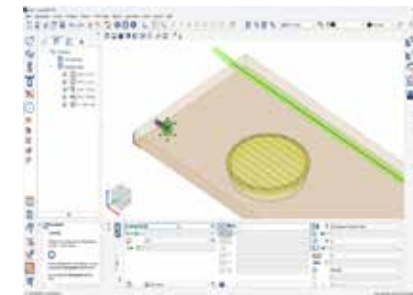
- Interface for CAD data import
- Basis for the generation of woodWOP programs

powerControl with PC87 control system

- Full-HD multitouch display with wide screen 16:9
- Front USB interface
- Ethernet connection 10/100 Mbit

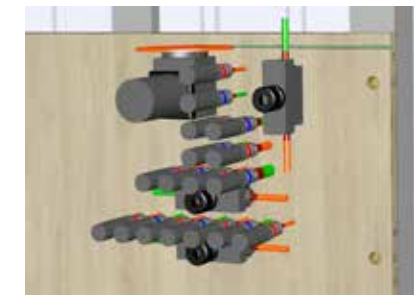
Option – Software

ADDITIONAL SOFTWARE MODULES allow you to further optimize your processes.



woodWOP | License for Office

- Single-user or network licenses available
- Incl. DXF import and CAD plug-in with numerous drawing and editing functions.



woodMotion

- For simulation and analysis of woodWOP programs.
- Batch simulation of production lists.



Barcode reading system

- Fast call-up and allocation of machining programs via barcode scan

LIFE CYCLE SERVICES

Always by your side, right from the very start.

Team & coverage

Largest global service network in the industry with over 1,750 personnel.

Maintenance & servicing

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

Training & education

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

Hotline & readiness

When there's an emergency, we're here. Direct by phone, digitally via app or video, or with on-site support. We are close to you with over 90 regional service organizations worldwide. With more than 60,000 spare parts immediately available, we can deliver 90 % of your orders fast.

eShop & online advantage

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

Modernization & improvement

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

sR Bridge

The serviceRemote Bridge is our secure remote service solution for HOMAG machines and is compliant with the latest EU safety standards. The sR Bridge enables us to establish a secure and updateable connection.

Financing & consulting

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



We have been working primarily with HOMAG machines for over 30 years. With preventive maintenance and regular inspections, we have increased the useful life by more than 3 years to an average of 18 years in multi-shift operation.

Ulrich Weber, Plant Manager, Duravit



VALYOU

Our Mission, Your Performance



Fast support

94% resolution rate via our hotline



Close to you

1,750 service experts worldwide



We get things moving

Over 2,000 worldwide spare parts shipments each day



No one else has that

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

Technical Data



* A corresponding safety distance must be maintained in the in and outfeed direction! (See documentation)

TECHNICAL DATA

Workpiece dimensions max.	L x W x T	mm	2,500 (3,050 Option) x 850 x 60*
Workpiece dimensions min.	L x W x T	mm	200 x 50* x 8
Workpiece weight max.		kg	35
Vector speed		m/min	(X - Y) 50 - (Z) 19
Installation dimensions (without extraction, without air conditioning)	L x W x H	mm	2,920 x 1,890 x 1,895
Total machine weight		kg	approx. 1,580

* Optimized processing scope





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