

CENTATEQ N-510

For dynamic and fast nesting processing.

CNC processing centre with 3-, 4- or 5-axis solutions.



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.**





More information at [homag.com](https://www.homag.com)
CENTATEQ N-510

CENTATEQ N-510 – Everything for the craft.

Our CNC processing centers today already offer technology of the future. And with good reason: Tradition. »Made in Germany« is our motivation and our commitment. Customers the world over associate this quality seal with the very highest standards. And we meet those expectations.

The typical application areas of nesting:

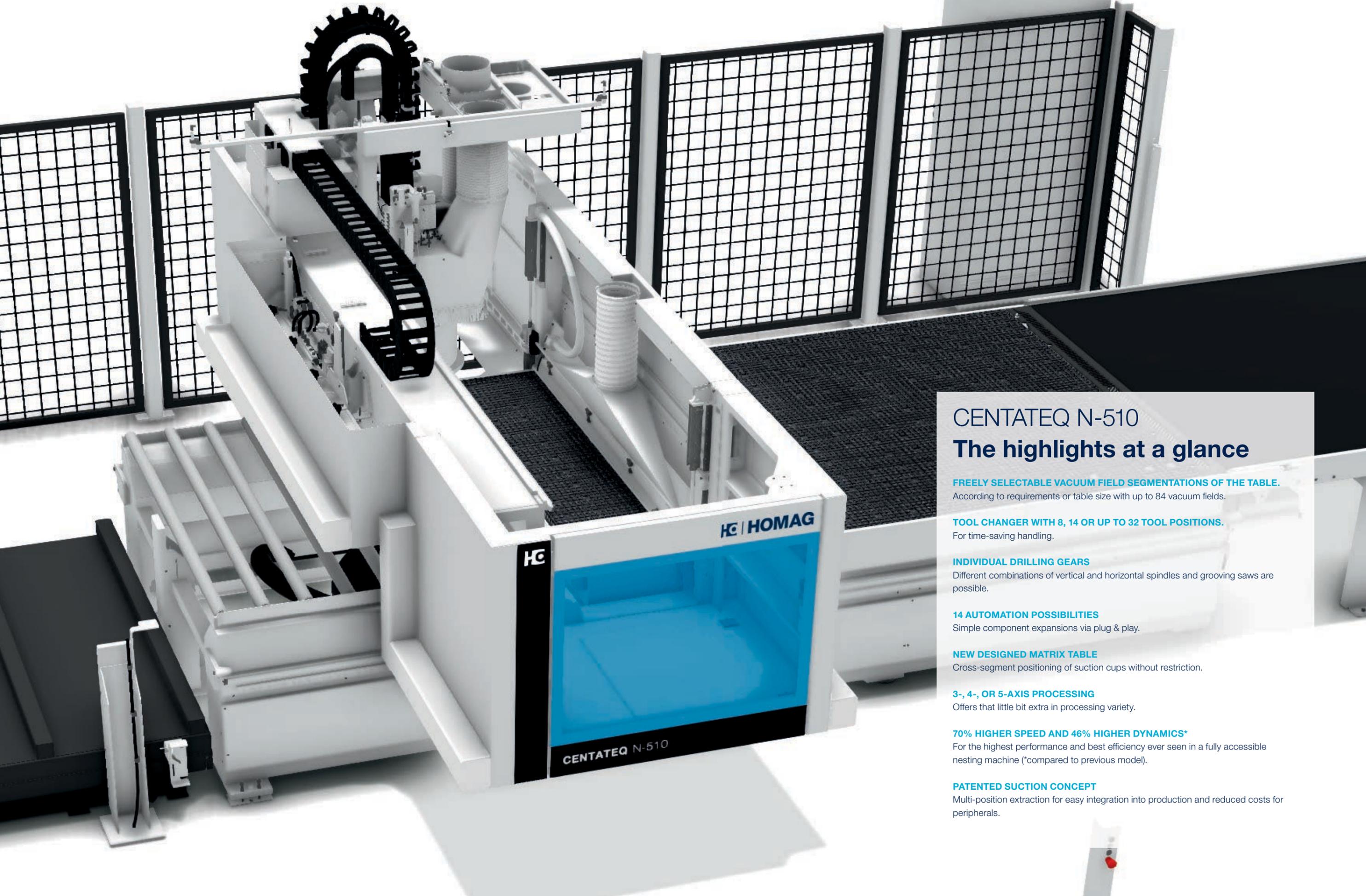
- Creating components for carcass furniture
- Dividing and refining of furniture fronts
- Various possibilities for the automation of the material handling

Setting accents:

- Maximum flexibility for interior designers, joineries and cabinetmakers
- Creating components for the caravan sector and structural-facings sector
- Processing of frame furniture

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CENTATEQ N-510

The highlights at a glance

FREELY SELECTABLE VACUUM FIELD SEGMENTATIONS OF THE TABLE.

According to requirements or table size with up to 84 vacuum fields.

TOOL CHANGER WITH 8, 14 OR UP TO 32 TOOL POSITIONS.

For time-saving handling.

INDIVIDUAL DRILLING GEARS

Different combinations of vertical and horizontal spindles and grooving saws are possible.

14 AUTOMATION POSSIBILITIES

Simple component expansions via plug & play.

NEW DESIGNED MATRIX TABLE

Cross-segment positioning of suction cups without restriction.

3-, 4-, OR 5-AXIS PROCESSING

Offers that little bit extra in processing variety.

70% HIGHER SPEED AND 46% HIGHER DYNAMICS*

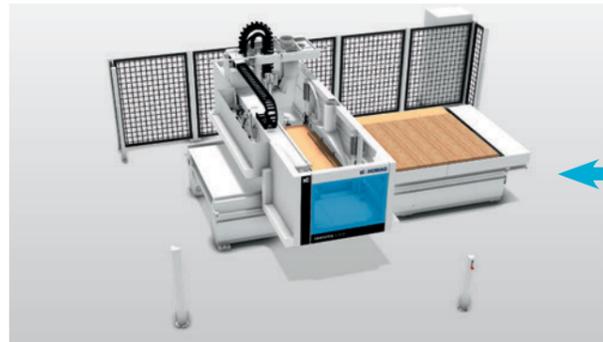
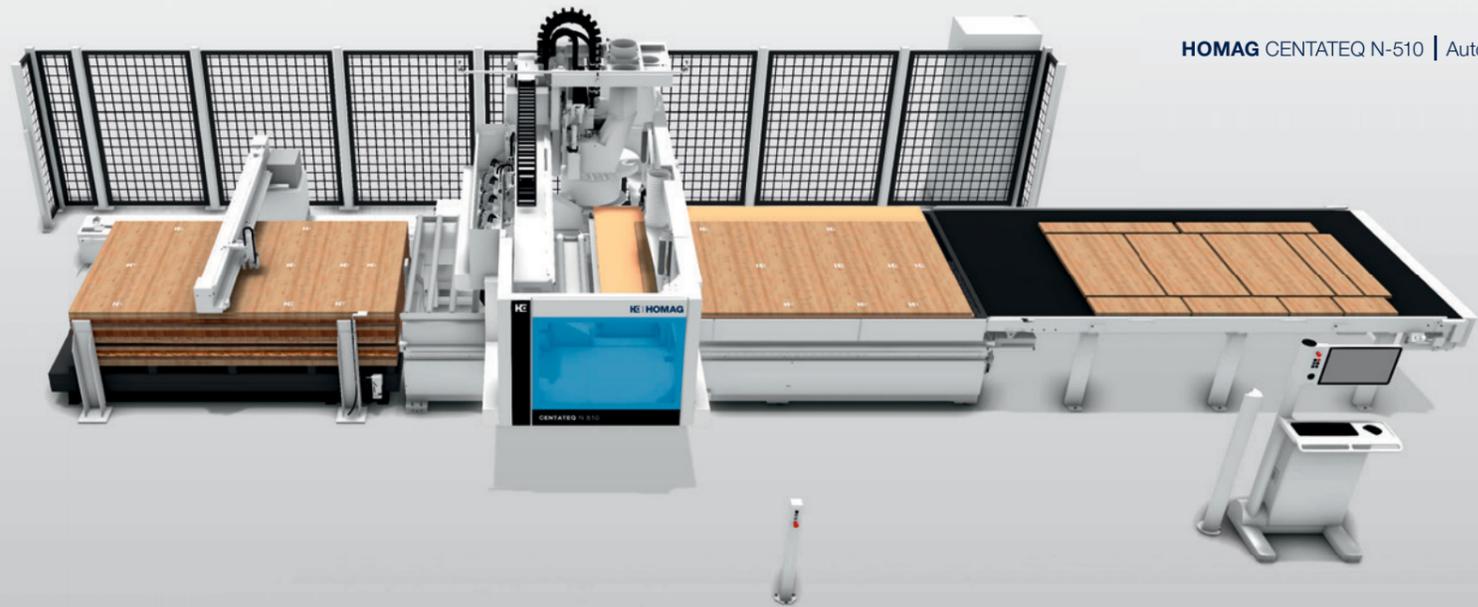
For the highest performance and best efficiency ever seen in a fully accessible nesting machine (*compared to previous model).

PATENTED SUCTION CONCEPT

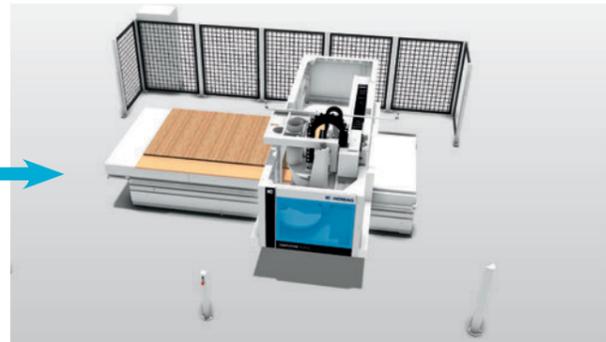
Multi-position extraction for easy integration into production and reduced costs for peripherals.

We have the solution for your nesting requirements!

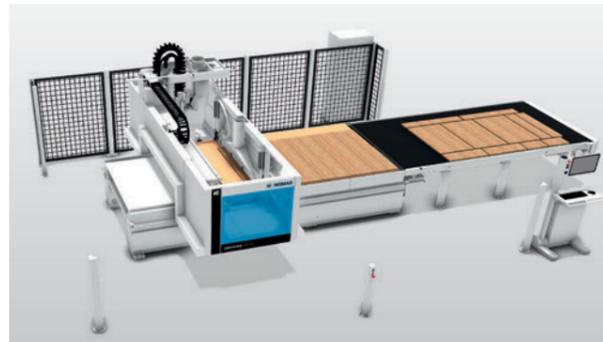
With the HOMAG nesting solutions you are always well-advised. Whether the workpieces should be fed by hand, by roller conveyor, by lifting carriage or by storage – we have always the proper concept for your application. With our plug & play features, we enable the successive expansion of the machine from the start.



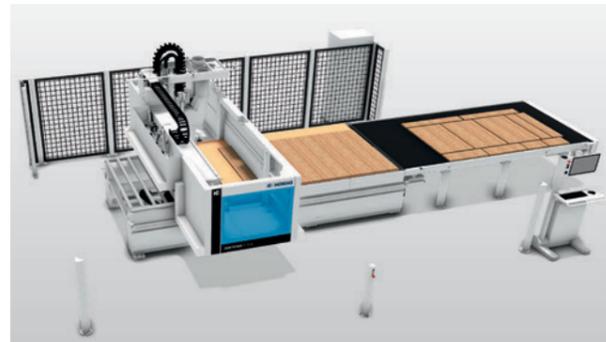
Basic+ including infeed and push-off device



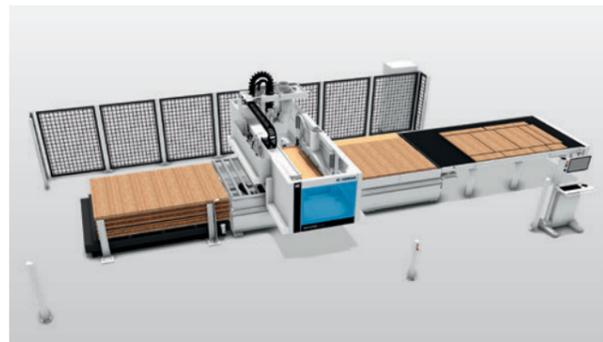
Variants are also available with the flow direction right to left



Outfeed+ Automatic push-off for higher productivity



Concept 1+ Prepared for the next expansion stages



Concept 2H+ Panel handling with lifting table

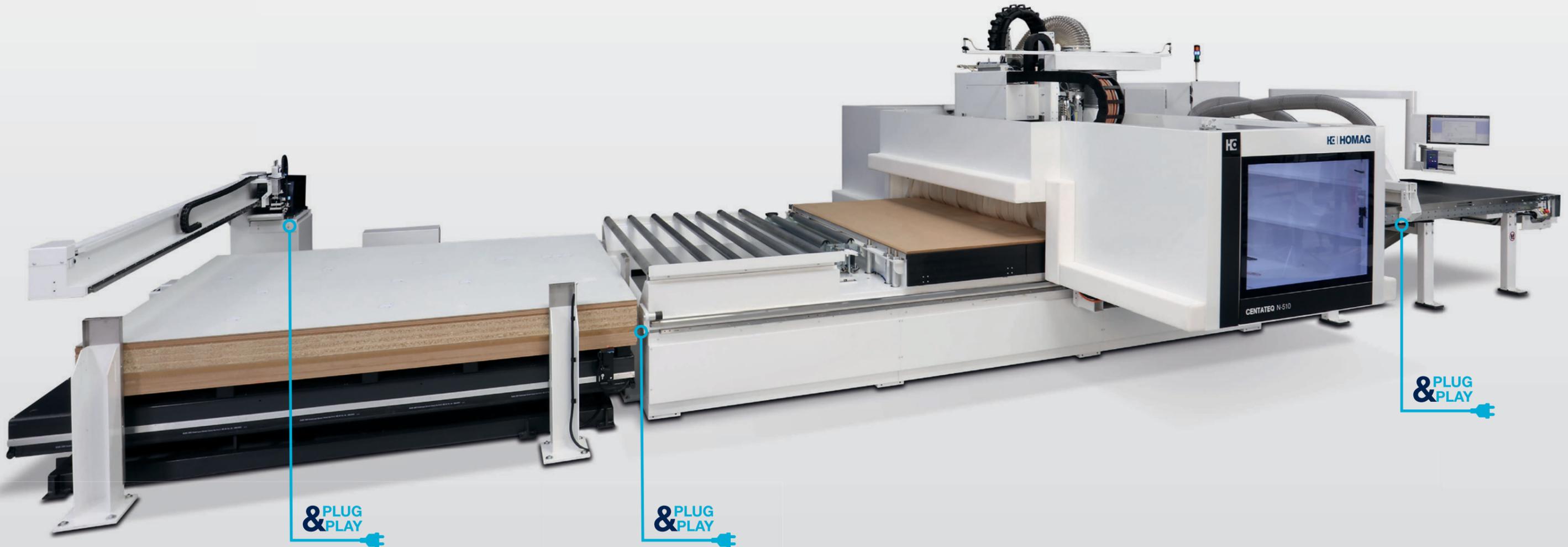


Concept 2R+ Infeed roller conveyor as interface for preceding automation systems



Including destacking via robot





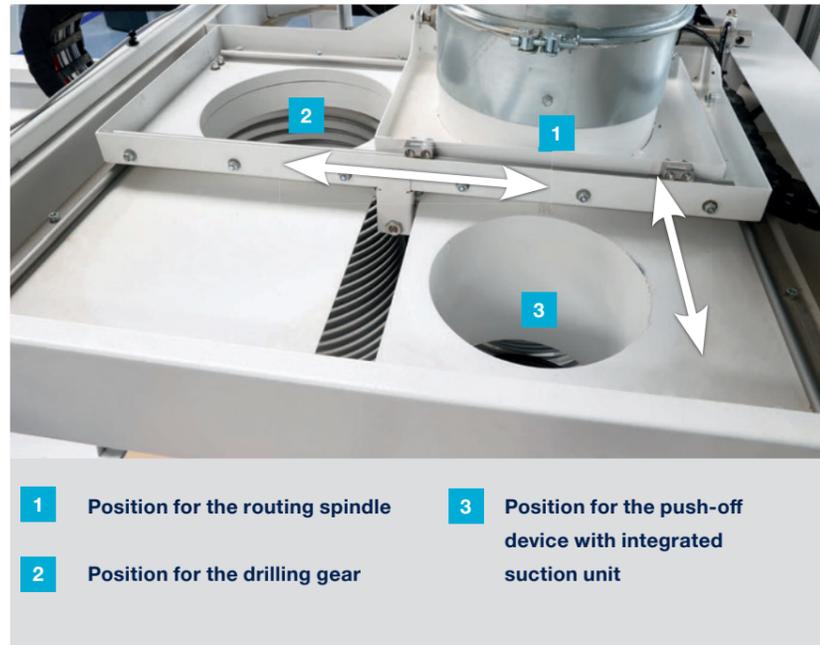
EXEMPLARY AUTOMATION CONCEPT:

- Mechanical and electrical plug & play interface to the machine
- One central control system – operation via HOMAG powerTouch
- Lifting table for automatic and ergonomic loading with automatic labeling at the infeed
- Belt conveyor for automatic pushing off of workpieces in different lengths and at variable speed, supplemented by manual labeling with swivel arm
- Synchronization of work processes through simultaneous infeed, cleaning of the protection panel and push-off
- Cable drag integrated in machine bed for better machine accessibility and protection against dirt



Integrated feeding device

- Cleaned-up machine design for protection against dust and dirt. The cleaning effort is reduced.
- Facilitated material handling with an upstream system and automatic positioning of the raw panel for more efficiency and accuracy.



Central suction connection on the gantry

- For suction on the drilling unit, on the routing spindle and on the suction and push-off device
- Multi-position extraction for easy integration into production and reduced costs for peripherals

- 1** Position for the routing spindle
- 2** Position for the drilling gear
- 3** Position for the push-off device with integrated suction unit



Combined suction and push-off device

- Flow-optimized device for cleaning the protection panel and the workpiece
- Height adjustment automatic
- Processing of 6 mm thick panels as standard (thinner panels on request)

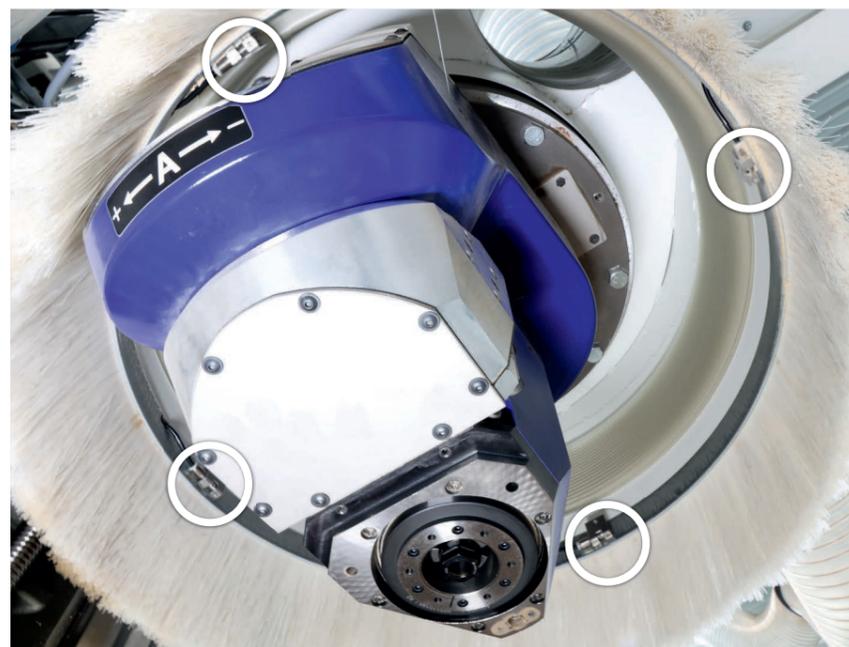


Suction hood adjustable

- Individual adjustment to the workpiece thickness
- No flow loss
- Optimal results
- Reduced energy consumption

Blow-off nozzles in the suction hood

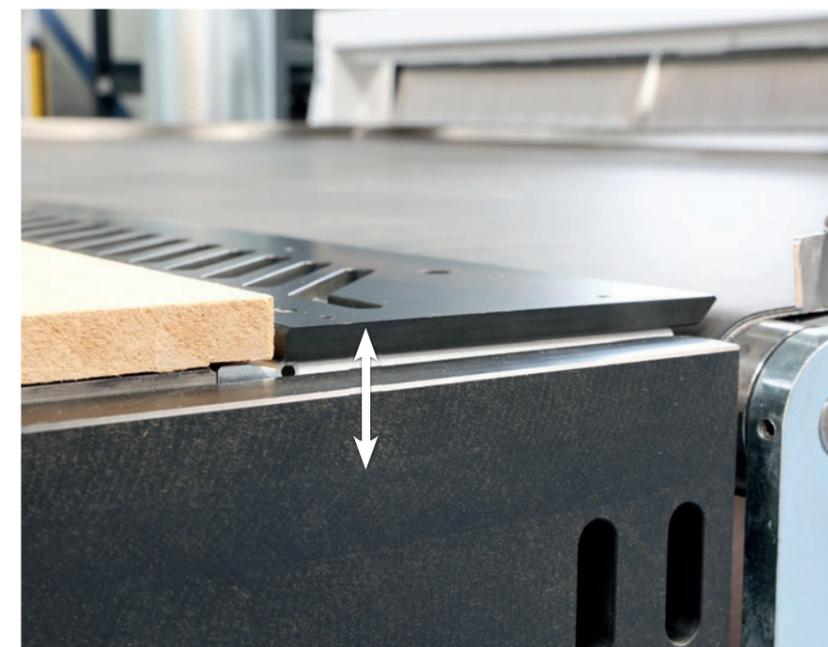
- 4 nozzles controllable via program
- Generation of an air flow to guide the chips
- Improvement of the extraction performance



Suction from above the belt conveyor



Suction at the end of the belt conveyor



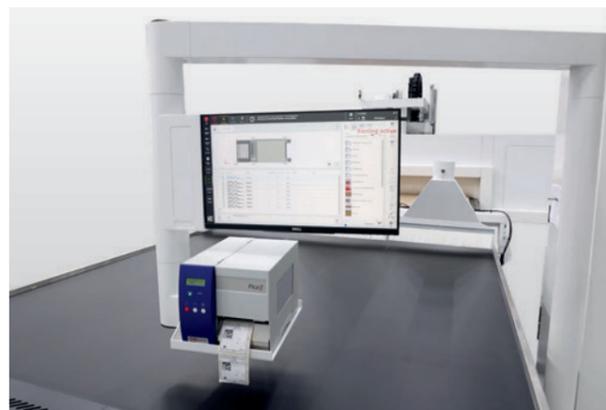
Suction from below at the machine outfeed

- During outfeed, the workpieces and the spaces between them are cleaned from below
- Height adjustment automatic

Optimal material utilization

Labeling

Detailed part identification through error-free labeling process with information for subsequent processing steps. Control of edge banding machines and CNC processing via barcode possible.



Manual labeling with swiveling arm

- Monitor mounted directly above the belt
- No walking distance to the label printer
- Direct view of the nest



Automatic labeling at the infeed

- Flowing process sequences through automatic labeling during the CNC processing
- Mechanical and electrical plug & play interface to the machine



Nesting Production Set

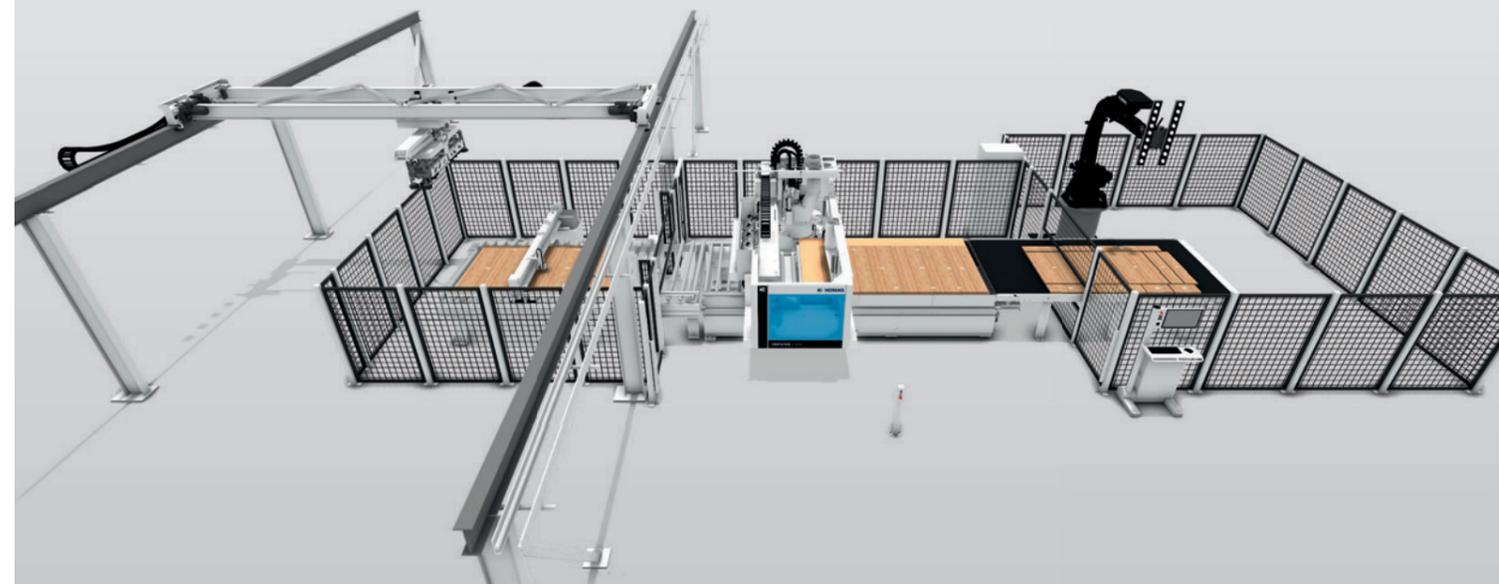
- App „intelliDivide Nesting“ for cutting optimization
- App „productionAssist Nesting“ for nesting plan selection and initiating label printing.
- Plug & Play label printer
- App „materialManager“ and „materialAssist Boards“ for the management of the raw panels and for the reuse of the remnants



Barcode connection

- Barcodescanner / -software
- Supported barcodes:
 - 1D – Barode,
 - 2D – Data Matrix Code
- Every workpiece is exactly identified for the further workpiece flow

Residual parts management



Residual parts management | Basic

- Labels for residual parts from Cut Rite
- Manual management

Residual parts management | Advanced

- Automatic management within the storage database
- Manual positioning in automatic mode
- Labels for residual parts can be produced on the machine itself

Residual parts management | Premium

- Automatic residual parts handling for nesting concepts in conjunction with storage solutions from HOMAG Automation



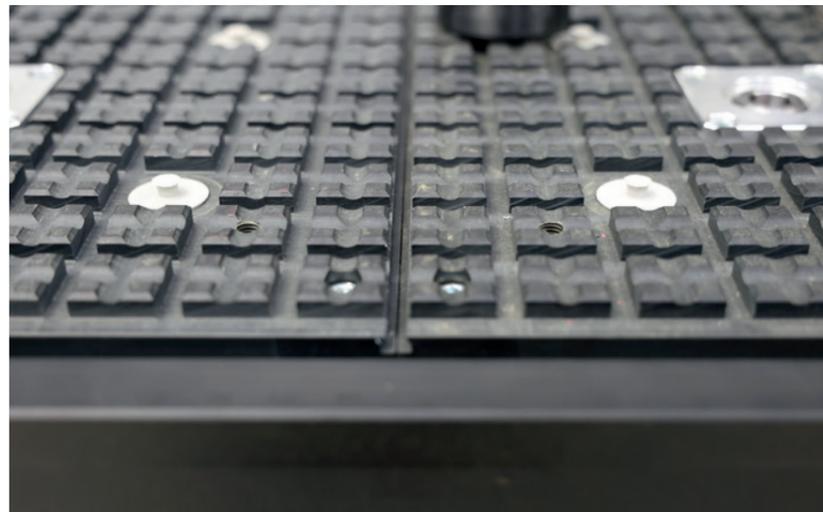
App »materialAssist Boards«

- The app can be used to manage the stocks and storage locations of the panels and remnants
- Optionally, the panel and remnant rack can be equipped with LED strips: The operator gets support during storage and retrieval by displaying the compartment in question by means of LEDs
- The app is available in the Google Play store and Apple AppStore

The MATRIX table

Table structure & efficient table field occupation

The MATRIX table provides a defined grid of channels and supply points to ensure optimum vacuum distribution for processing with vacuum clamping. By automatically selecting and deselecting the table field occupation, the vacuum is activated in the required area and is effective where it is needed. The areas are optimally matched to the established range of boards. This is specifically designed for the desired flexibility in the use.



Valves

- Valves allow control of each individual vacuum field

New: transition matrix plates

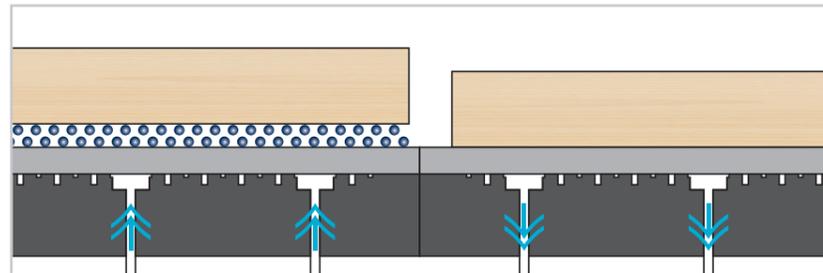
- Continuous grid groove across the entire MATRIX table
- Easy positioning of suction cups across segments
- 30 x 30 mm grid for optimum vacuum flow

Mounting of protective panel

- Fixing points for protective plate integrated in the table

New creation: Functional extension of the air cushion table function

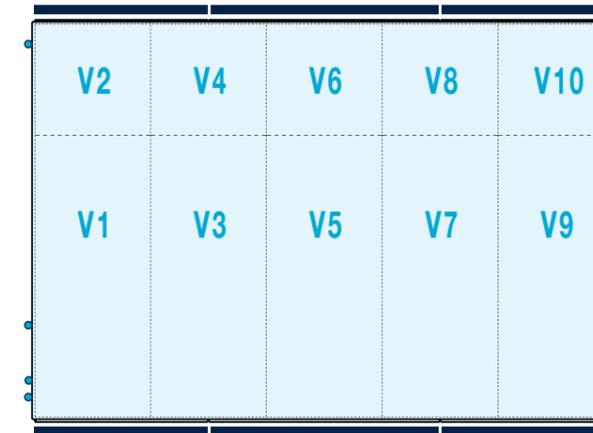
- Generation of an air cushion for workpiece-friendly and ergonomic handling
- Space occupation and air cushion function are optimally matched to each other



Segmentation table

Table dimension in ft (B x L)	Table dimension in mm (L x B)	Number of vacuum fields		
		Classic	Advanced	Premium
4 x 8	2,550 x 1,260	4	n.A.	16
5 x 10	3,180 x 1,590	10	15	25
5 x 12	3,810 x 1,590	12	18	30
5 x 18	5,700 x 1,590	18	27	45
5 x 24	7,590 x 1,590	24	36	60
6 x 12	3,810 x 1,890	12	18	36
7 x 10	3,180 x 2,160	10	15	35
7 x 14	4,440 x 2,160	14	21	49
7 x 18	5,700 x 2,160	18	27	63
7 x 24	7,590 x 2,160	24	36	84

Classic



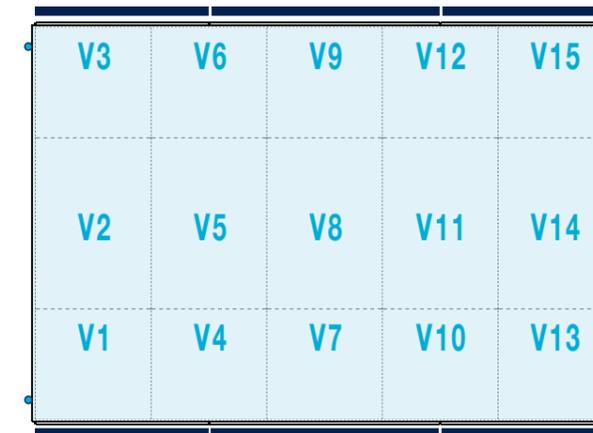
Example

- Table size: 7 x 10 ft (3,180 x 2,160 mm)
- Segmentation into 10 fields

Highlights

- Classic nesting processing
- Vacuum fields are designed so that common panel dimensions can be selected and deselected

Advanced



Example

- Table size: 7 x 10 ft (3,180 x 2,160 mm)
- Segmentation into 15 fields

Highlights

- Classic nesting processing and small parts
- Vacuum panels are designed so that the common panel dimensions can be selected and deselected independently of the operating side

Premium



Example

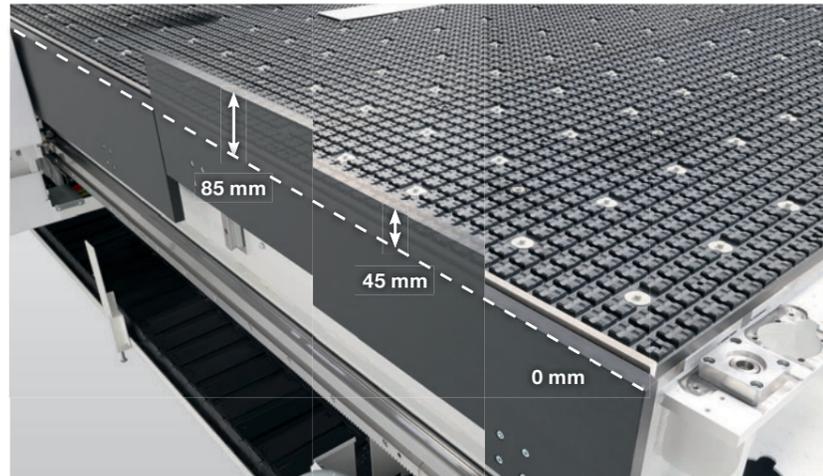
- Table size: 7 x 10 ft (3,180 x 2,160 mm)
- Segmentation into 35 fields

Highlights

- Ideal for all types of applications
- Individually controllable vacuum fields on the entire work table
- Table segmentation with up to 84 fields possible

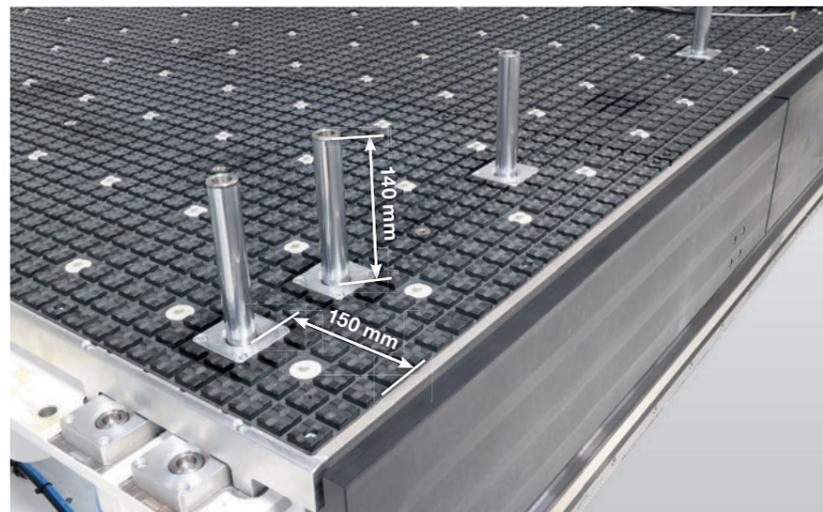
Stop and alignment systems

The correct clamping of the panels and workpieces is the basis for an optimal processing result.



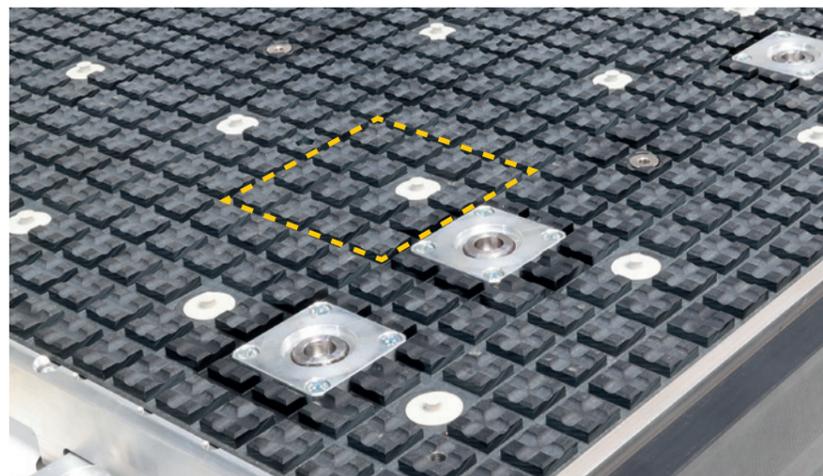
Linear guides

- Application-specific and demand-oriented control of the automated guide rails enables ergonomic handling
- The standardized guide rails allow for precise positioning



Stop cylinder

- Pneumatically lowerable aluminum stop cylinder
- The stop cylinders are installed in such a way that the suction cups can be placed as close as possible to the cylinder without any vacuum loss.
- It is possible to place additional stops in the table

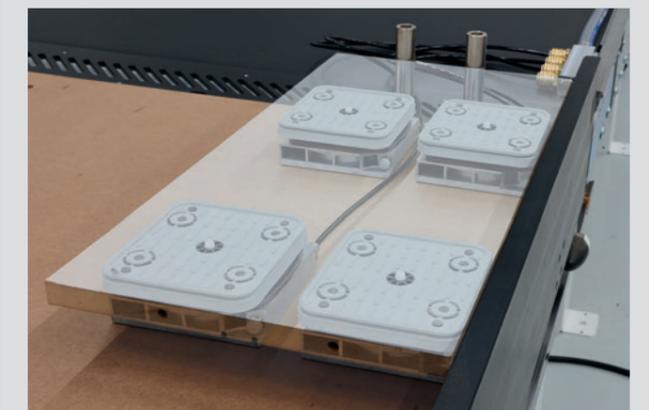


Positioning of clamping devices

- The optimal connection points for the vacuum, as well as the positioning of the stop cylinders allow the maximum use of clamping devices at almost any position

Clamping elements

Various clamping elements are optionally available

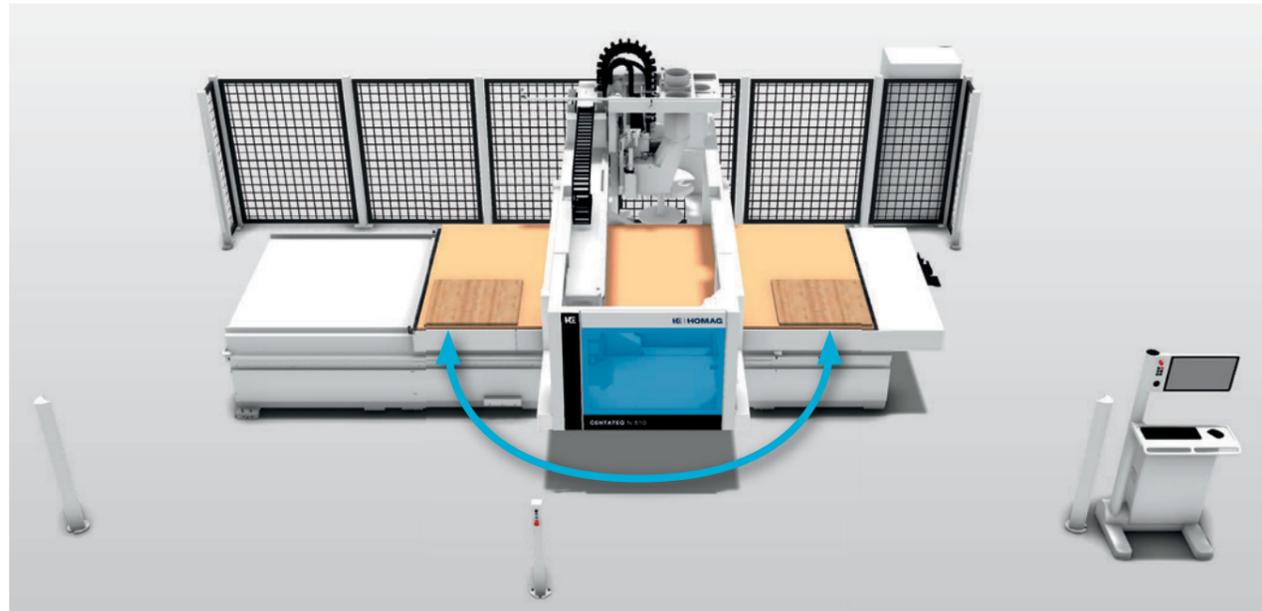


Notice: To fix suction cups to the protection plate, it is necessary to use a foil between the two elements.

Alternating operation

Gapless changeover between left and right table sides

Separate vacuum supply and ventilation of the table sides enables normal and dynamic alternating operation. The vacuum fields are assigned to the table sides and can be controlled individually. While workpieces are being routed on one side of the table, they can be loaded on the other side. Highly efficient, time and money saving production.



New: Dynamic pendulum loading in nesting as well

- Simultaneous workpiece handling and processing of different components

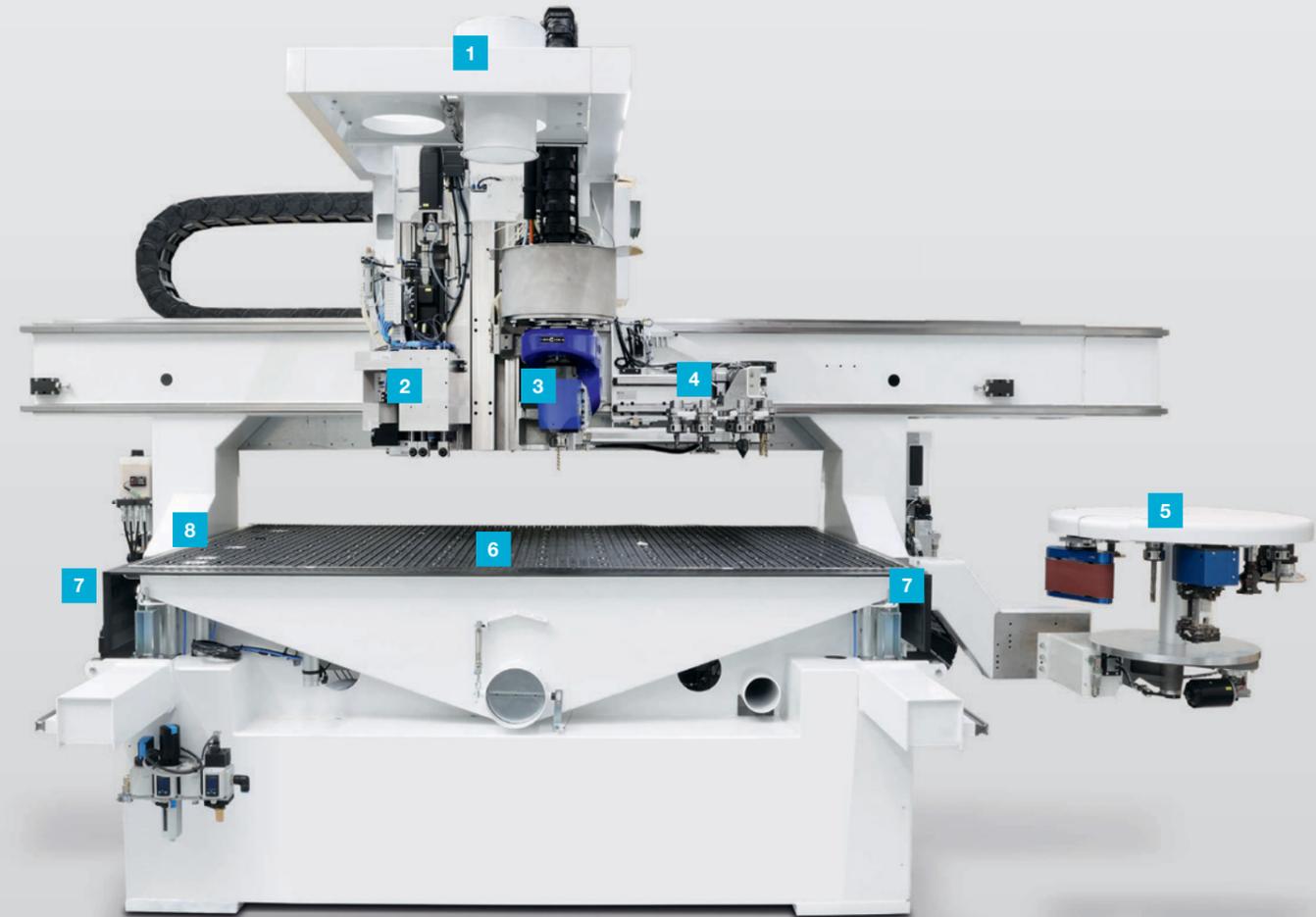
Vacuum pumps

- Low-noise, efficient and compact vacuum pumps with low-maintenance claw technology
- Number variable depending on application and table size
- Automatic activation/deactivation of additional vacuum pumps available as standard. Important for individual vacuum requirements.

Quality and innovation down to the last detail

Innovative solutions for every task. Superior technology from the start. Every customer benefits from HOMAG system competence. The sum of decades of experience in machine and plant engineering goes into our machining centers.

Identical system components, uniform control technology and ergonomic operation ensure more productivity. The latest technologies for the variable high-quality workpiece shapes.



1 One central suction port for drilling unit, routing spindle, and protective panel/workpiece suction unit

2 High-speed drilling unit with patented spindle clamping and variable speed

3 Powerful 3-, 4- and 5-axis routing spindles

4 8-fold tool changer moving along the spindle in X- and Y-direction for tool change while drilling

5 Tool changer with 8, 14 or up to 32 tool positions moving in X-direction for high capacity and fast access

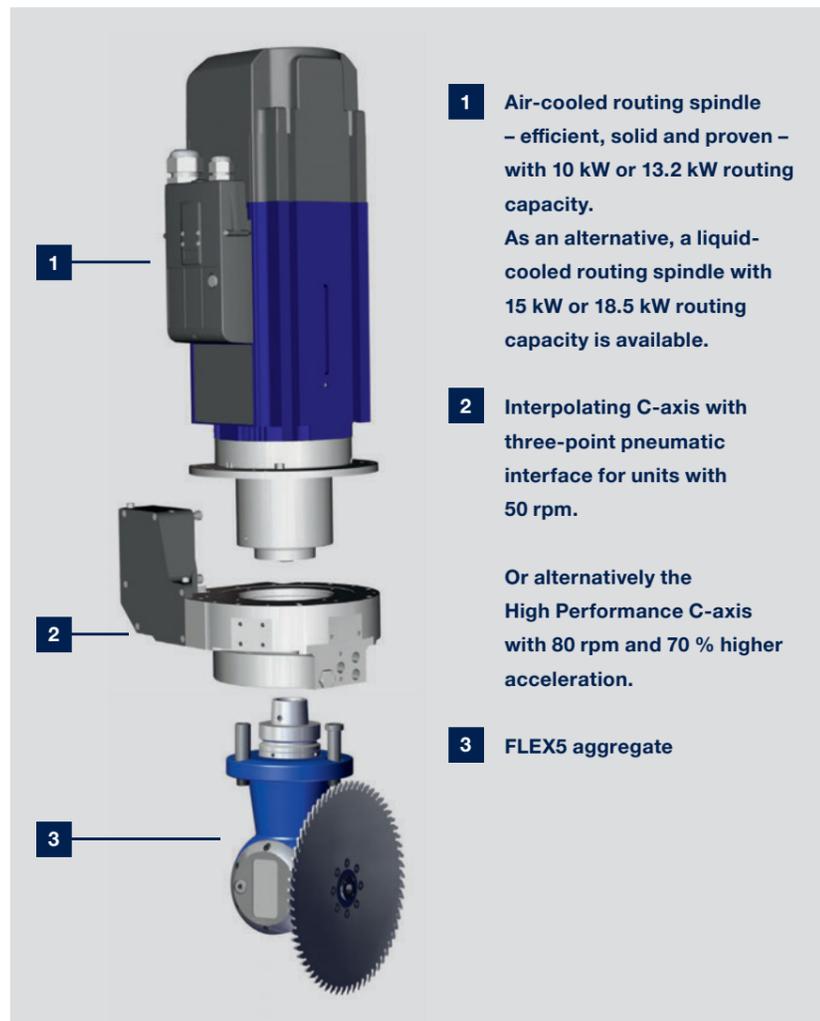
6 MATRIX table with flexible vacuum field division

7 High-precision stop systems with linear guides and application-specific height control, double-sided synchronized drive system

8 Stop cylinder system integrated in the table for processing with an extensive clamping device portfolio

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.

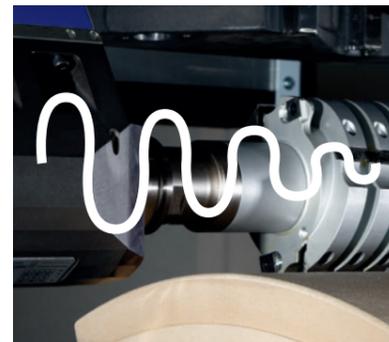


1 Air-cooled routing spindle – efficient, solid and proven – with 10 kW or 13.2 kW routing capacity. As an alternative, a liquid-cooled routing spindle with 15 kW or 18.5 kW routing capacity is available.

2 Interpolating C-axis with three-point pneumatic interface for units with 50 rpm.

Or alternatively the High Performance C-axis with 80 rpm and 70 % higher acceleration.

3 FLEX5 aggregate

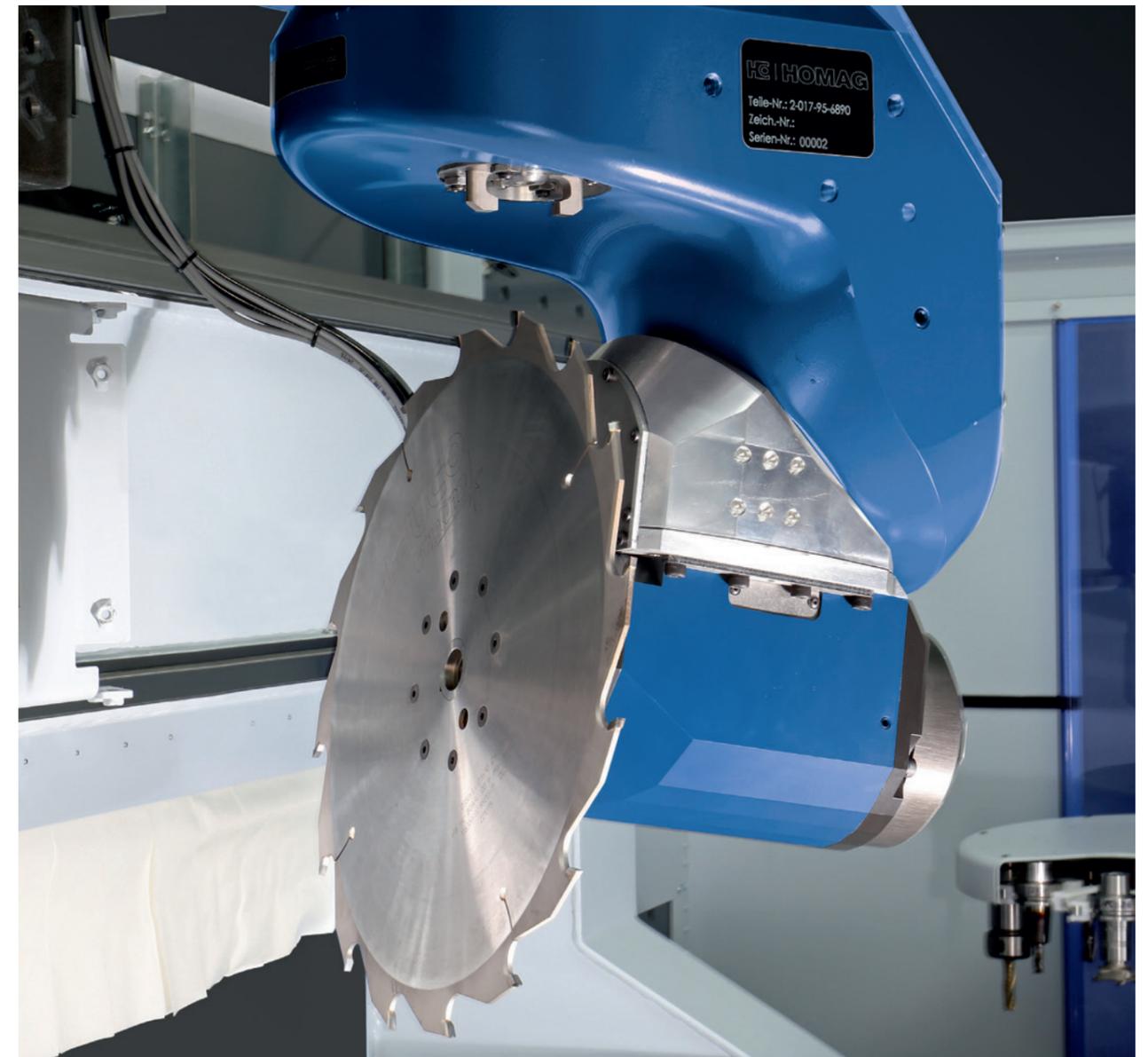


Liquid cooling and spindle sensor (optional for DRIVE5CS) – liquid-cooled routing spindles with hybrid storage offer a long service life. An additional vibration sensor detects tool unbalances and protects the spindle against overloading, due to high feed speeds for example.

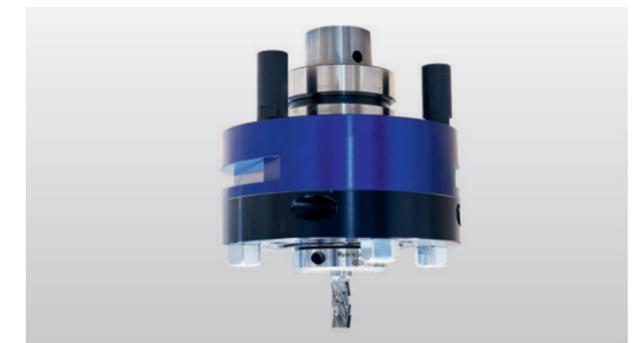


Sawing, routing, drilling at any angle – FLEX5 aggregate with automatic angle adjustment. A unique unit for 4-axis spindles, which covers over 90% of 5-axis applications.

4-axis routing spindle with units interfaces, which open up almost unlimited production opportunities. With patented technologies the range of tasks can be expanded at any time.



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 with 10 kW (as option 12 kW routing capacity) for efficient operations. The short design provides more space for processing (e.g. with a 350 mm saw blade, under the hood).



Trimming tool holder with jet for compressed air and fluids: For trimming operations combined with compressed air feed, for example for tool cooling when processing plastics or to improve chip disposal when trimming deep grooves.

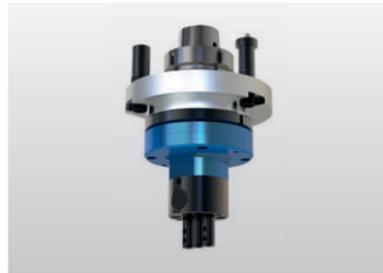
Units

Excellent processing quality and new standards for speed

The HOMAG units provide numerous innovative technologies. They can be combined and precisely coordinated to your specific application situation. Even special tasks are worked out safely and efficiently.



Corner notching unit



Drilling unit Cabineo, 3 spindles



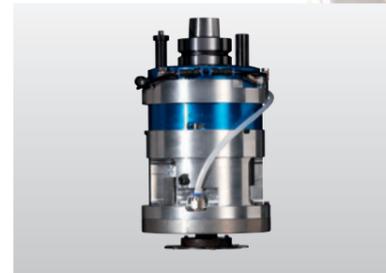
Drilling/routing unit



Drilling/routing unit



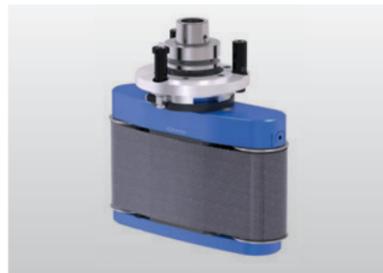
FLEX5 drilling/sawing/routing unit



Routing unit



Lock-case routing unit



Belt sanding unit



Eccentric sanding unit



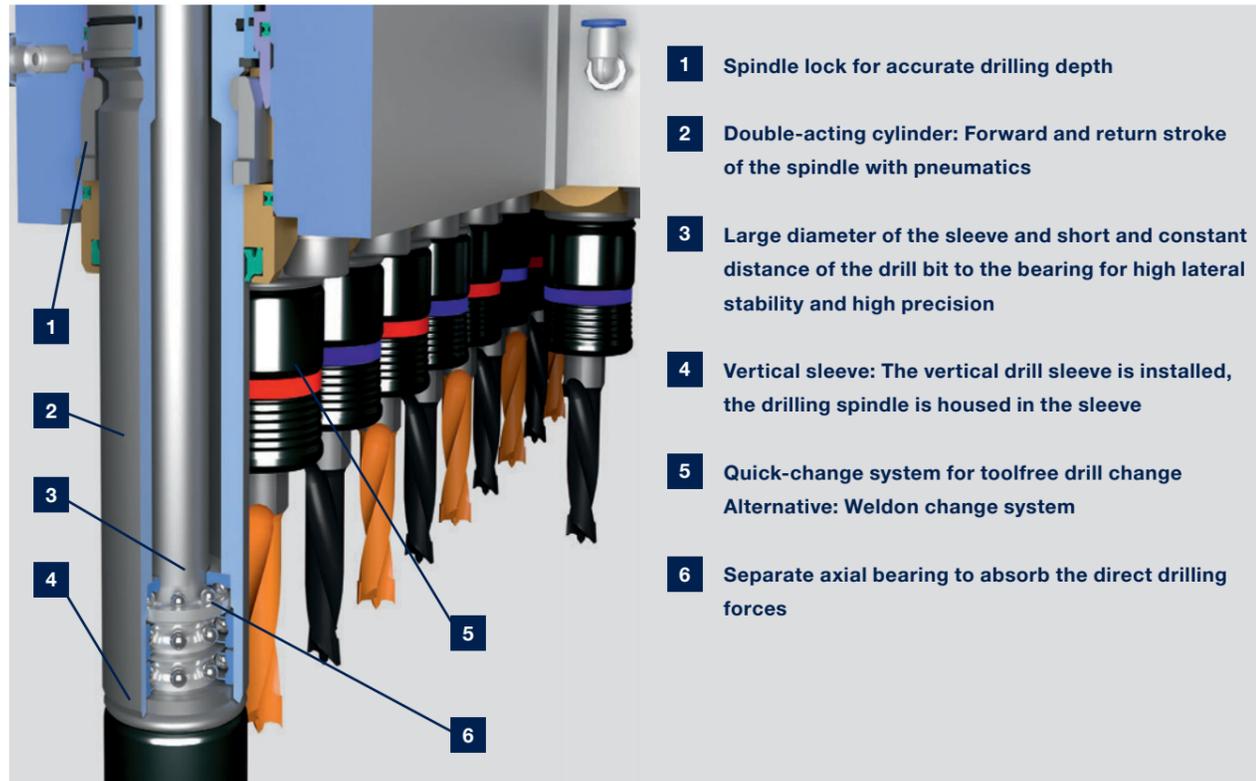
More information
you find on our website in the brochure
»Unit and Clamping Element Catalogue«

HOMAG drilling technology

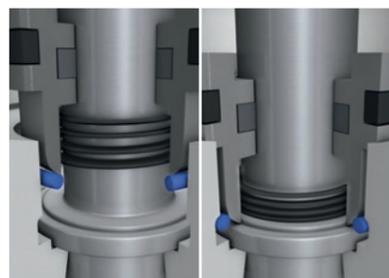
Patented, precise and durable

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

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



- 1 Spindle lock for accurate 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 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 Quick-change system for toolfree drill change
Alternative: Weldon change system**
- 6 Separate axial bearing to absorb the direct drilling forces**



Automatic spindle lock — patented system for a drilling depth that is always accurate for numerous different materials. With speeds from 1500–7500 rpm for high feed speeds or short drill cycles.

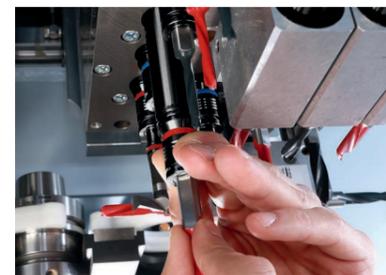


Tool box »STARTER KIT«

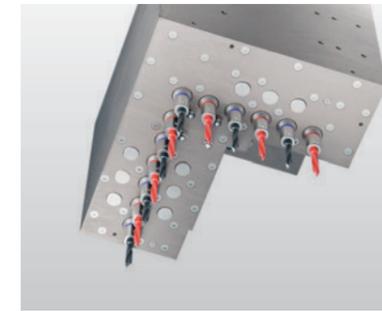
Top equipment – from the very start



Weldon change system for a drill change with tools

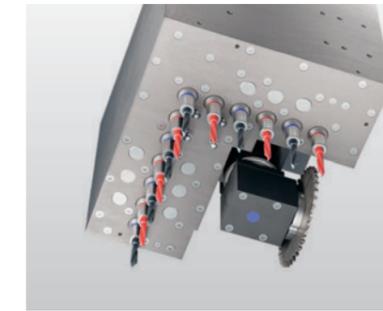


Patented quick-change system for a drill change without tools to reduce setup times.



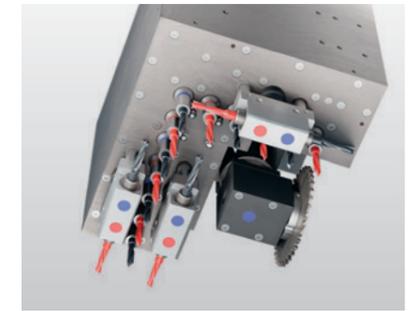
Drilling gear V12

- 12 drilling spindles [High-Speed 7500]
- 12 vertical drilling spindles



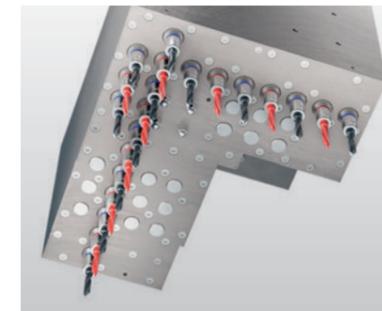
Drilling gear V12

- 12 drilling spindles [High-Speed 7500]
- 12 vertical drilling spindles
- Grooving saw Ø 125 mm (0° / 90°)



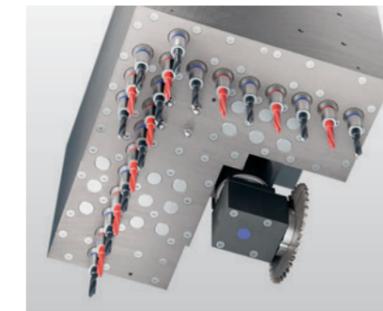
Drilling gear V12/H4X2Y

- 18 drilling spindles [High-Speed 7500]
- 12 vertical drilling spindles
- 4 horizontal drilling spindles in X
- 2 horizontal drilling spindles in Y
- Grooving saw Ø 125 mm (0° / 90°)



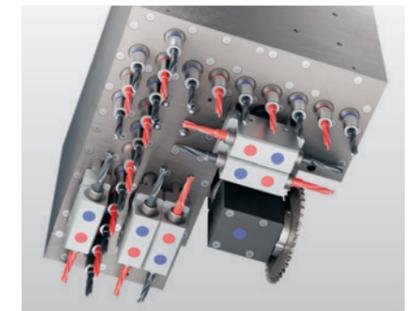
Drilling gear V21

- 21 drilling spindles [High-Speed 7500]
- 21 vertical drilling spindles



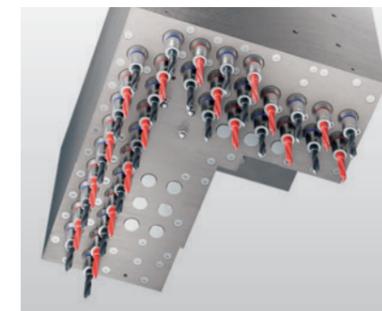
Drilling gear V21

- 21 drilling spindles [High-Speed 7500]
- 21 vertical drilling spindles
- Grooving saw Ø 125 mm (0° / 90°)



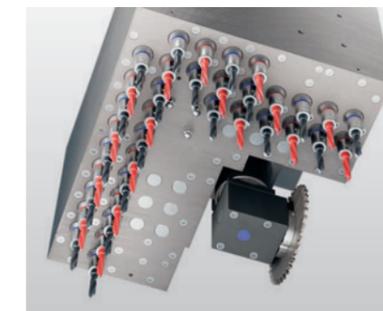
Drilling gear V21/H6X4Y

- 31 drilling spindles [High-Speed 7500]
- 21 vertical drilling spindles
- 6 horizontal drilling spindles in X
- 4 horizontal drilling spindles in Y
- Grooving saw Ø 125 mm (0° / 90°)



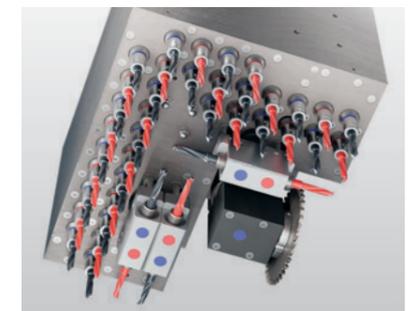
Drilling gear V36

- 36 drilling spindles [High-Speed 7500]
- 36 vertical drilling spindles



Drilling gear V36

- 36 drilling spindles [High-Speed 7500]
- 36 vertical drilling spindles
- Grooving saw Ø 125 mm (0° / 90°)



Drilling gear V36/H4X2Y

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

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 22 tool changing places.

Tool length control

- After changing a tool, the length of the tool is queried and compared with the integrated tool databas



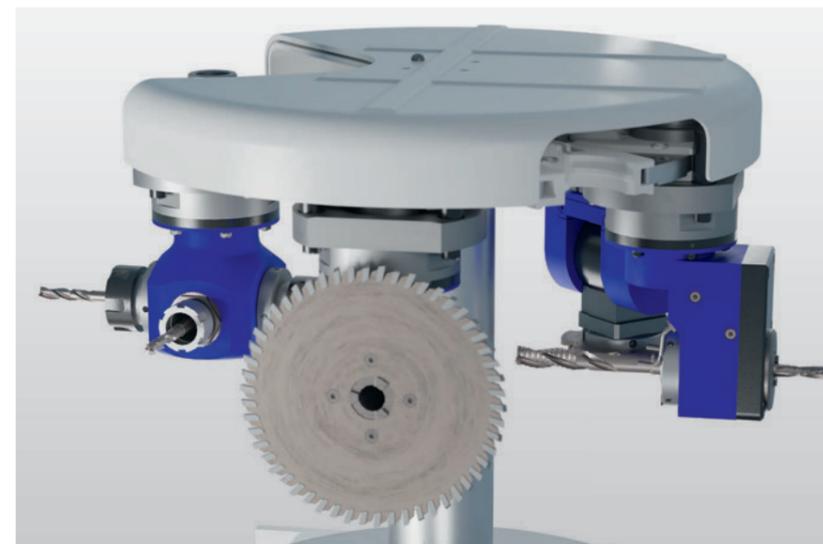
Tool pick-up station

- Folding transfer station at the front of the machine for efficient setup



Tool changing system

- 8-fold tool changer moving in X- and Y-direction
- For quick access and change options during drilling processing



Tool changing system

- 8-fold tool changer moving in X-direction



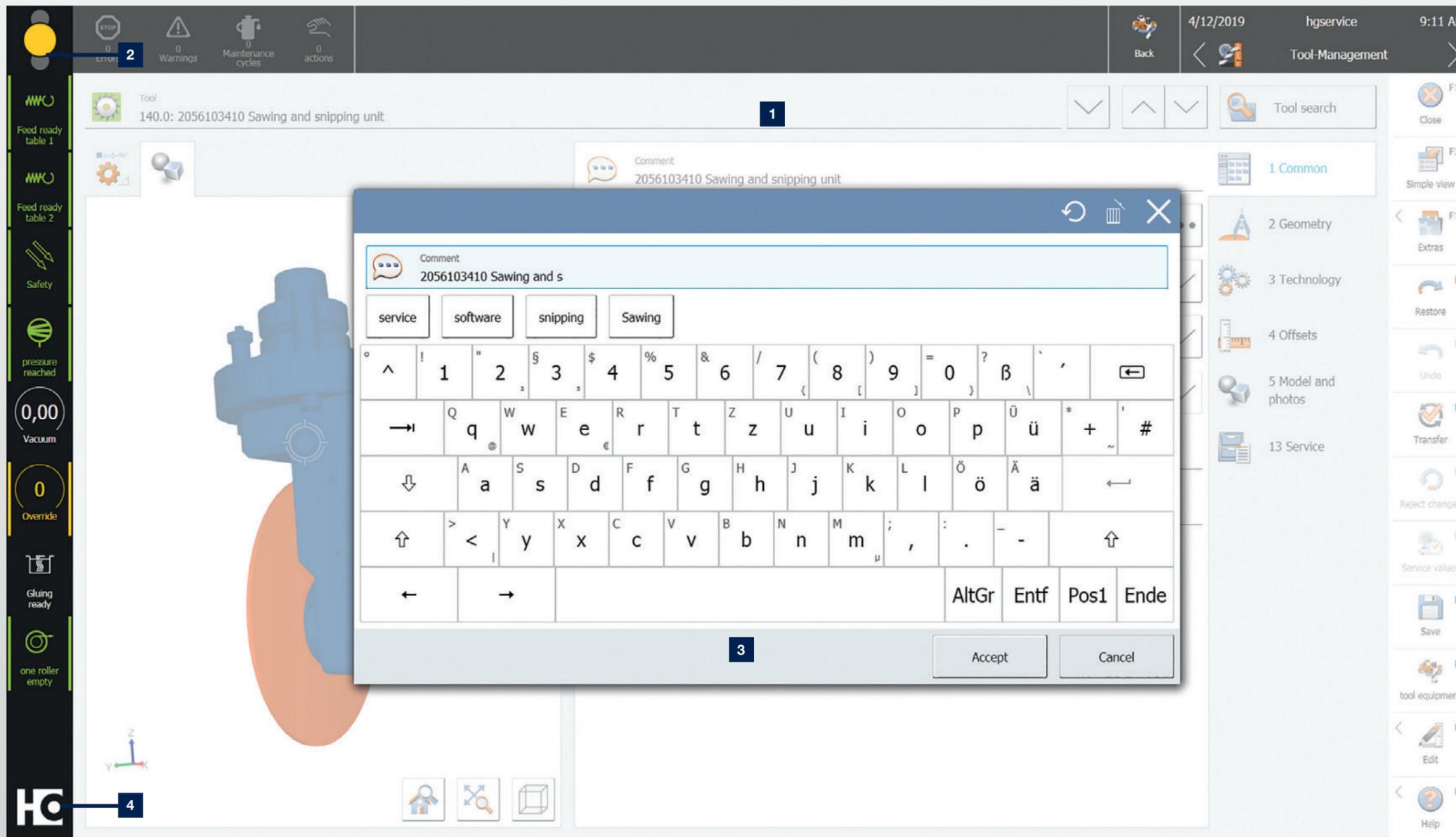
Tool changing system

- 14-fold tool changer moving in X-direction



Tool changing system

- 24-fold tool changer moving in X-direction
- Large storage capacity with quick access
- Also for saw blades with a diameter of up to 300 mm



The next generation of powerTouch: powerTouch2

Faster, more comfortable, clearer: Enjoy the benefits of our further improved powerTouch user interface. We have optimized our standardized operating concept and further adapted it to our customers' requirements. Controlling your HOMAG machines is now even faster and more intuitive. The new, modern design has a clear structure. The innovative touch operation allows you to achieve the desired result easily and comfortably.

With the new powerTouch generation, you can enter information at your machine even more quickly. Compared to the previous version, you can achieve a time saving of up to 30%. This is possible thanks to new features, such as automatic word completion, a pop-up keyboard that can be kept open and Windows-like functions, such as the selection of common actions directly via the start button.

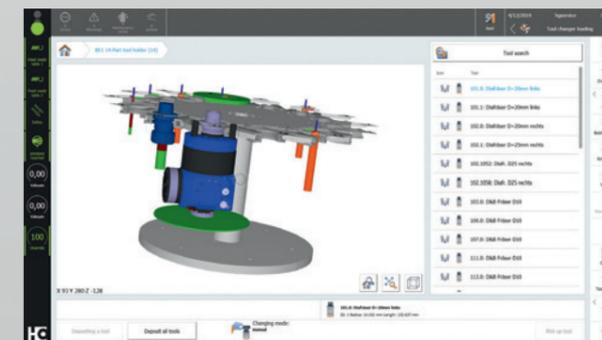
1 The powerTouch2 screen is clearly structured. You can see all the important information at a glance, but you still have all the details.

2 We have also improved the traffic light dialog further. You can now directly influence the machine's production readiness by selecting actions via the traffic light icon.

3 A functional pop-up keyboard that can be kept open, including automatic word completion for faster entries (when you enter the first letters, frequently used applications are proposed and you can select them directly).

4 Enhanced "Start" menu with additional information displayed (e.g. an indication of how many messages are currently pending or status bars that show the progress of the application) and direct access to actions (e.g. confirmation of actions without having to jump to the application).

Our successful powerTouch philosophy – **standardized, simple, ergonomic, evolutionary** – consistently further developed



THE HIGHLIGHTS AT A GLANCE:

- Direct and efficient operation, up to 30% faster
- Clearer and more informative thanks to additional information and live illustrations instead of program icons
- New applications for operating and controlling machines and systems (e.g. NCCenter in the PC87 control system on CNC machines or woodCommander 4 on throughfeed machines)
- Fresh, attractive design, based on the new HOMAG machine design

Software | Machine

Our machines are equipped with everything needed for productive use as standard. In addition, a wide range of software modules can be supplemented to create the optimum configuration.



woodWOP

- The programming software for HOMAG CNC machines
- WOP programming, CAD design and CAM system combined in one software package
- High ease of use and more programming safety due to modern 3D user interface
- Variably expandable with many powerful additional modules

New in woodWOP 9.0

- New design, including dark mode
- Favorites menu
- Drag&Drop, intelligent object snap, multi-select, new mover



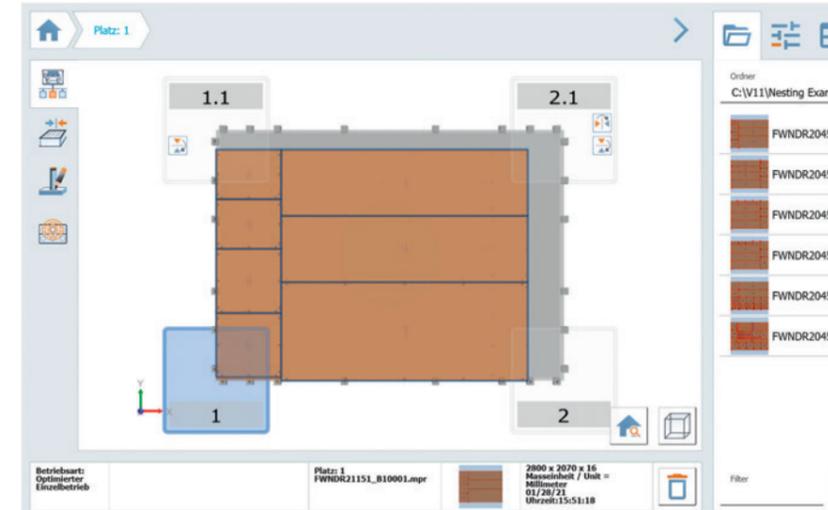
Download
woodWOP demo version



Central switch cabinet with height-adjustable powerTouch operator terminal, UPS to protect against data loss, Backup Manager for data backup and network connection. Light on the switch cabinet for status display.

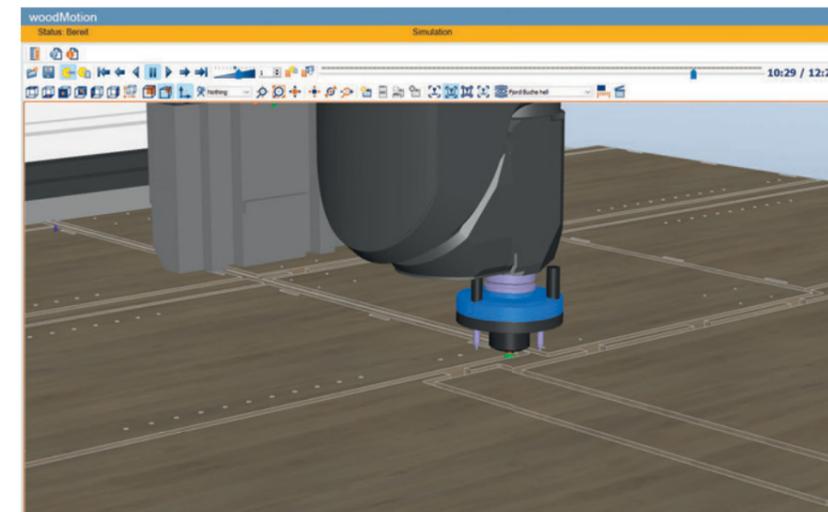


Mobile operator terminal (optional) with 24" full HD multitouch display can be moved freely. To the left or right of the machine, or for the run-in directly in front of the machine – the terminal is always at the right place.



PC87 Slot assignment

- Simple control of main machine functions through soft keys
- Graphical loading

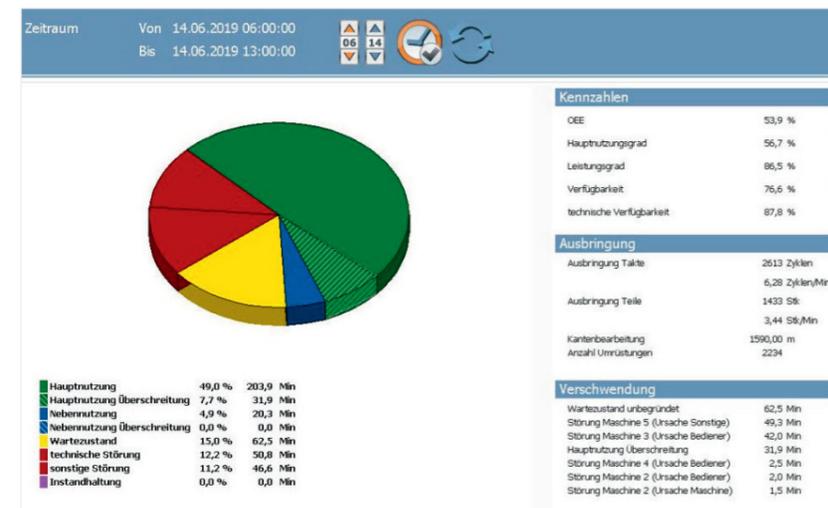


woodMotion

- Graphical 3D simulation software
- Material removal and residual part detection
- Collision detection
- Processing time calculation
- High realism through simulation based on a virtual machine control system

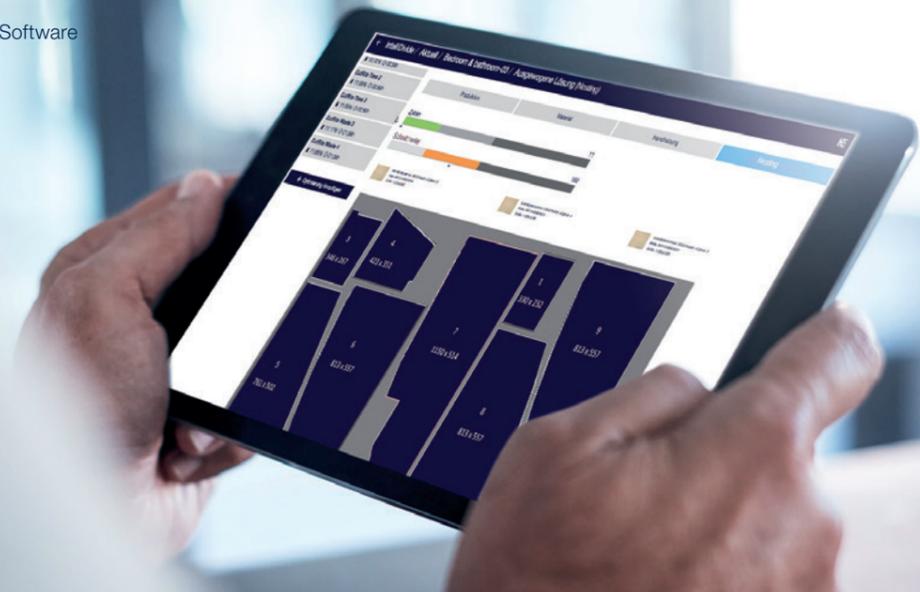
collisionControl

- Monitoring of collisions between machine components during processing
- Automatic machine stop in the event of an imminent crash situation



MMR Basic

- Machine Data Recording – collecting and evaluating machine states via time meter and event meter
- Display and logging of maintenance measures
- Expandable with further modules from the MMR product family



intelliDivide Nesting – Entry into cutting optimization for CNC machines

intelliDivide is the web-based cutting optimization program of the HOMAG Group. The optimization software enables, among other things, intelligent import from CSV, XLS(X), PNX, MPR, rectangular and free-form part optimization and part-in-part nesting. Part of the Nesting Production Set.

00001
P2_Weiss_19_2800_2070

Material	P2_Weiss_19
Größe	2070,0x2800,0
Zyklen	1
Zyklusnummer	1

00001
MDF_Roh_19_2800_2070

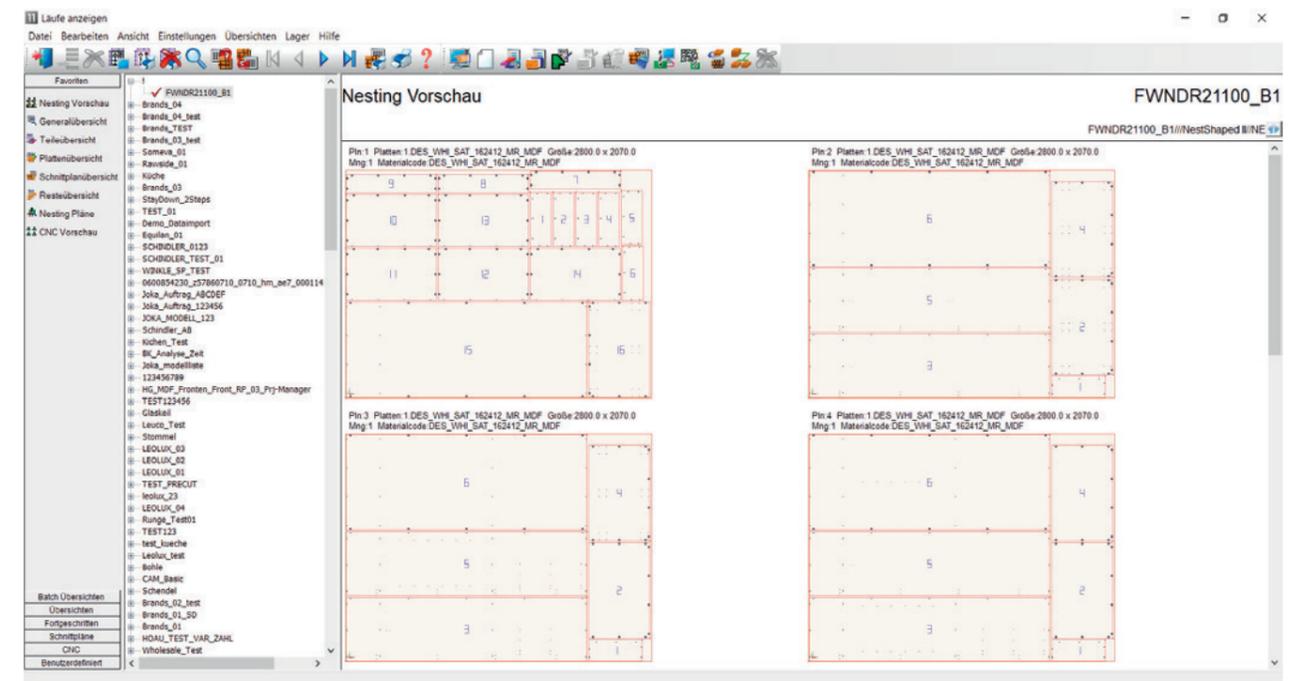
Material	MDF_Roh_19
Größe	2070,0x2800,0
Zyklen	1
Zyklusnummer	1

The advantages:

- No local hardware is needed. intelliDivide operates independently of the operating system; internet access is all that is required
- Users do not have to worry about maintenance or updates
- Low-cost entry into optimization
- Intuitive, simple operation.
- Simple, usage-based booking possible. Whether a free trial month, monthly subscription or annual subscription, every customer chooses the best option for them.

Cut Rite Nesting – Cutting optimization for CNC machines with many additional functions

Cut Rite is the HOMAG Group's cutting optimization for use in work preparation and can be used for saws and CNC nesting machines. Interfaces for data import and export are part of the standard scope. Other standard functions include batch mode, the definition of cutting rules and the assignment of priorities for parts.



With the additional option Industry for Cut Rite Nesting, the waste can be further reduced (approx. 10 to 20% depending on the parts spectrum).

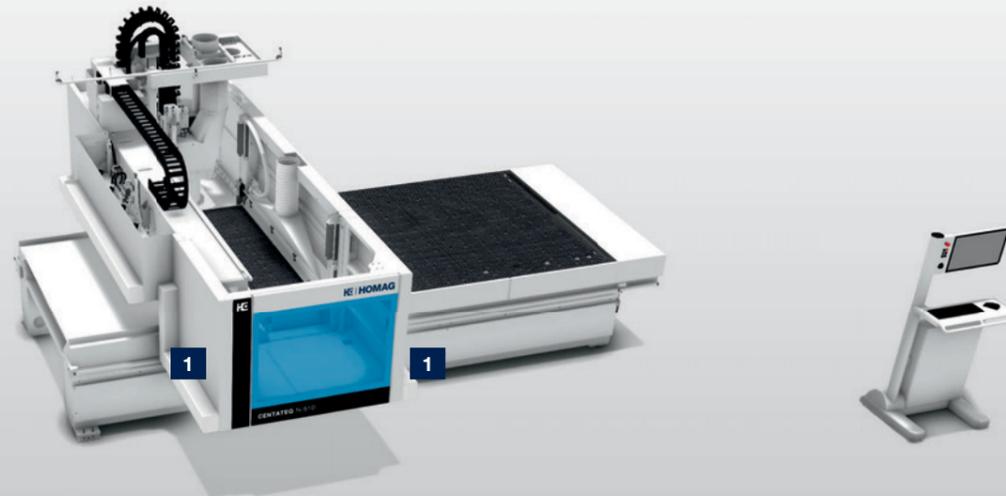
The woodStore interface is available for automatic communication with a HOMAG panel storage system.

The advantages:

- A software for cutting optimization for saws and/or CNC machines.
- High flexibility already included in the standard scope of delivery
- Seamless communication with the HOMAG automation concept and with the HOMAG panel storage system
- Wide range of options and interfaces for importing and exporting data

Safety concept Stripe bumper

The focus of the selected safety concept is on the interaction between machine and machine operator in individual operation.



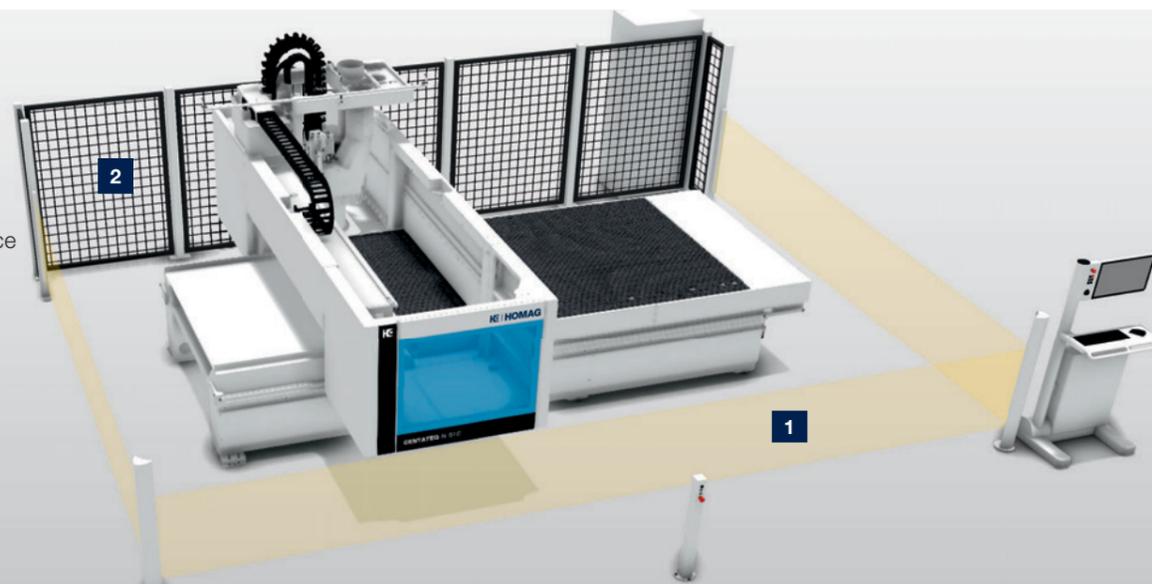
- 1 Stripe bumper:**
- Travel speed with 25 m/min
 - Pendulum functionality possible

Highlights:

- Space-saving solution – stand alone machine

Safety concept Light barrier

The focus of the selected safety concept is on output and productivity. The system can produce independently, quickly and with high dynamic parameters without intervention.



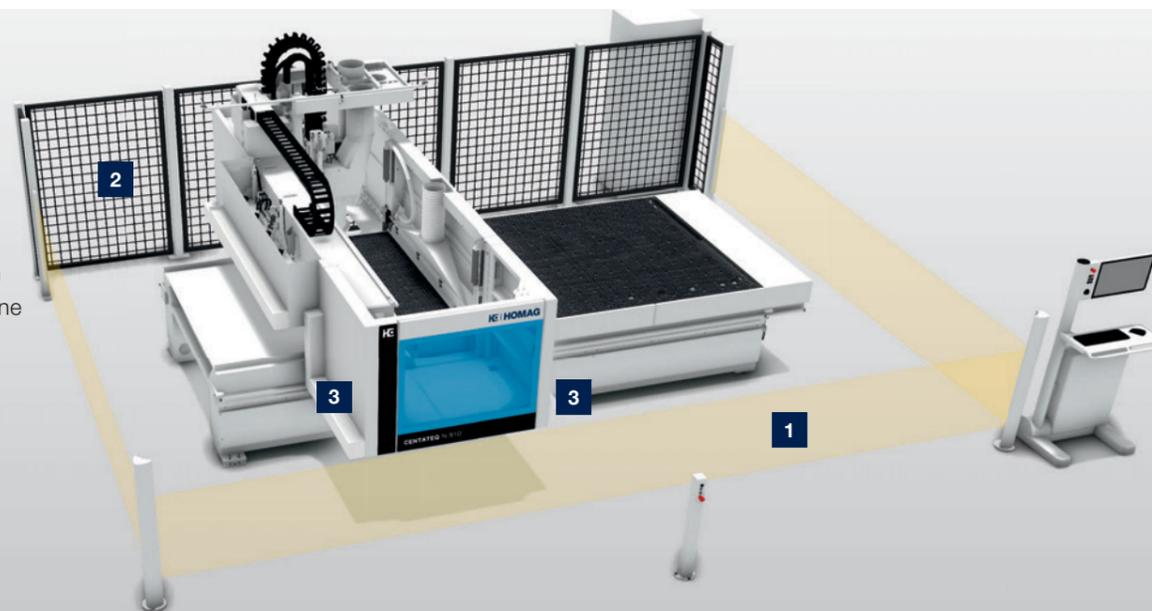
- 1 Light barrier:**
- 3-beam light grid for barrier-free access from 3 sides
 - Modular expansion to automation possibilities
- 2 Protective fence:**
- The protective fence secures the area behind the machine
 - Access to the rear working areas is possible through the left and right side of the machine

Highlights:

- Travel speeds of up to 100 m/min in X-direction

Safety concept Light barrier and stripe bumper

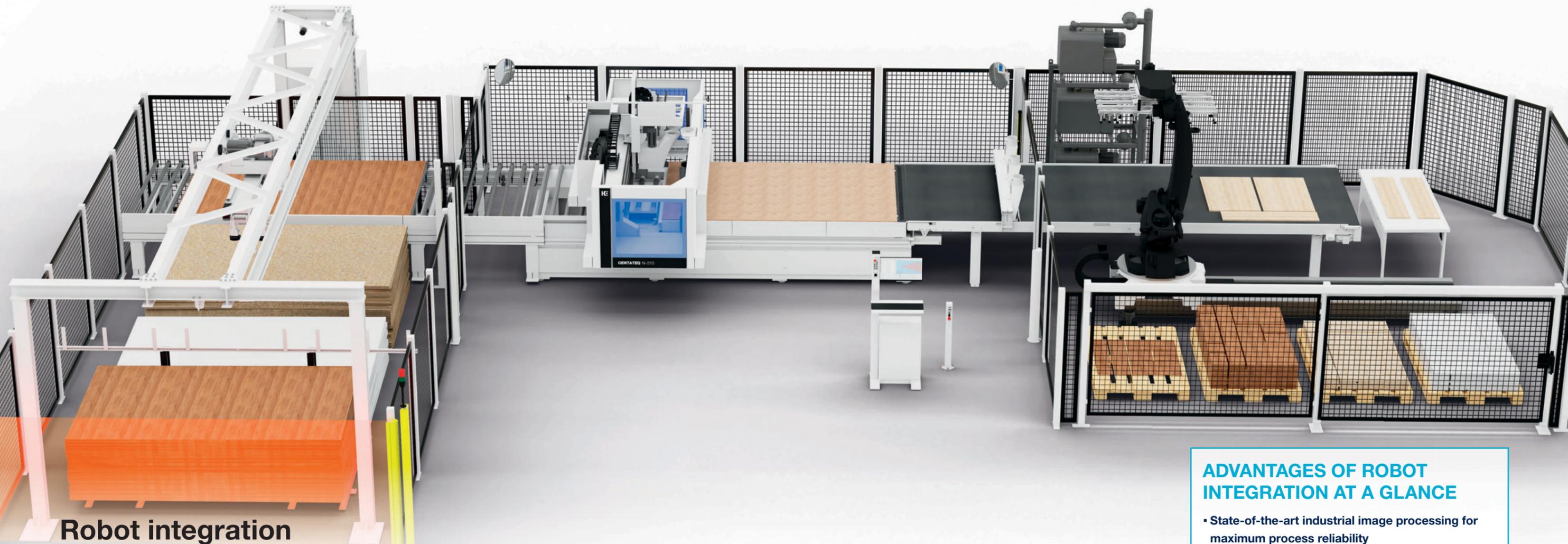
The focus of the two-stage safety concept is on the interaction and interplay between the machine and the machine operator. The system can also produce independently, quickly and with high dynamic parameters without intervention.



- 1 Light barrier:**
- 3-beam light grid for barrier-free access from 3 sides
 - Modular expansion to automation possibilities
- 2 Protective fence:**
- The protective fence secures the area behind the machine
 - Access to the rear working areas is possible through the left and right side of the machine
- 3 Stripe bumper:**
- Reduction of travel speed to 25 m/min
 - Pendulum functionality possible
 - E.g. the lifting table can be loaded during processing

Highlights:

- Travel speeds of up to 100 m/min in X-direction
- When interacting with the machine operator, the traversing speed is reduced to 25 m/min in the X-direction



Robot integration

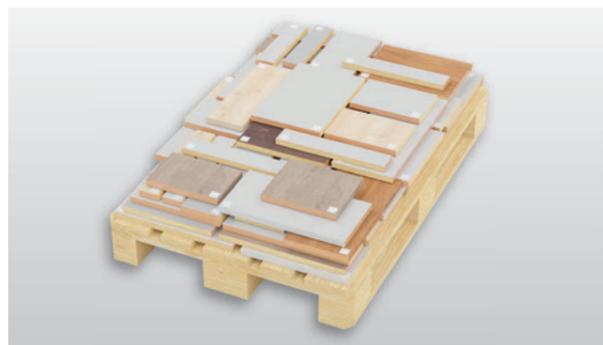
Automatic panel and workpiece handling with STACKBOT C-300

The smart concept allows parts to be picked from the entire nest as required and placed on a roller conveyor or stacked smartly onto a pallet.



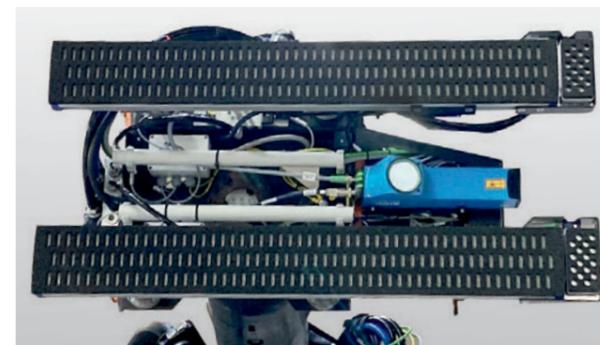
Efficient robot cross rail

- Individual and automatic control of the individual suction cups
- Gentle workpiece handling thanks to rubberized suction unit surfaces
- Structures in the workpiece can be offset without reducing the suction power



Chaotic stacking

- Compact stacking of individual parts in batch size 1
- Intelligent algorithms calculate an optimal and stable stacking pattern
- Pre-sorting of individual parts into different target stacks for efficient production processes



Picking from the nest

- Individual parts are visually recognized and identified
- All component data is known at all times and can be passed on to downstream processes

ADVANTAGES OF ROBOT INTEGRATION AT A GLANCE

- State-of-the-art industrial image processing for maximum process reliability
- Compact stacking of individual parts in batch size 1 in a chaotic stacking pattern
- Intelligent remnant management for high material utilization
- One control system for simple and centralized operation using powerTouch 2
- No programming or robot knowledge required to operate the cell
- Central remote service access for support, via which all cell components can be viewed
- Industrial components for high availability and a long service life
- Increased performance thanks to extended production times (over breaks, after the end of shifts)

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

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

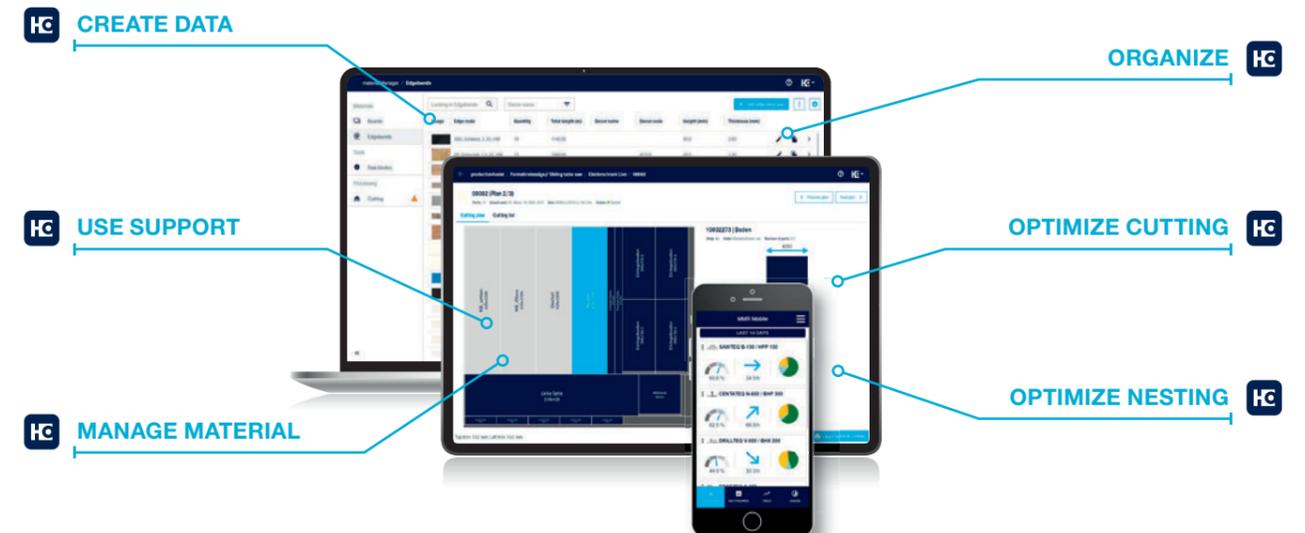


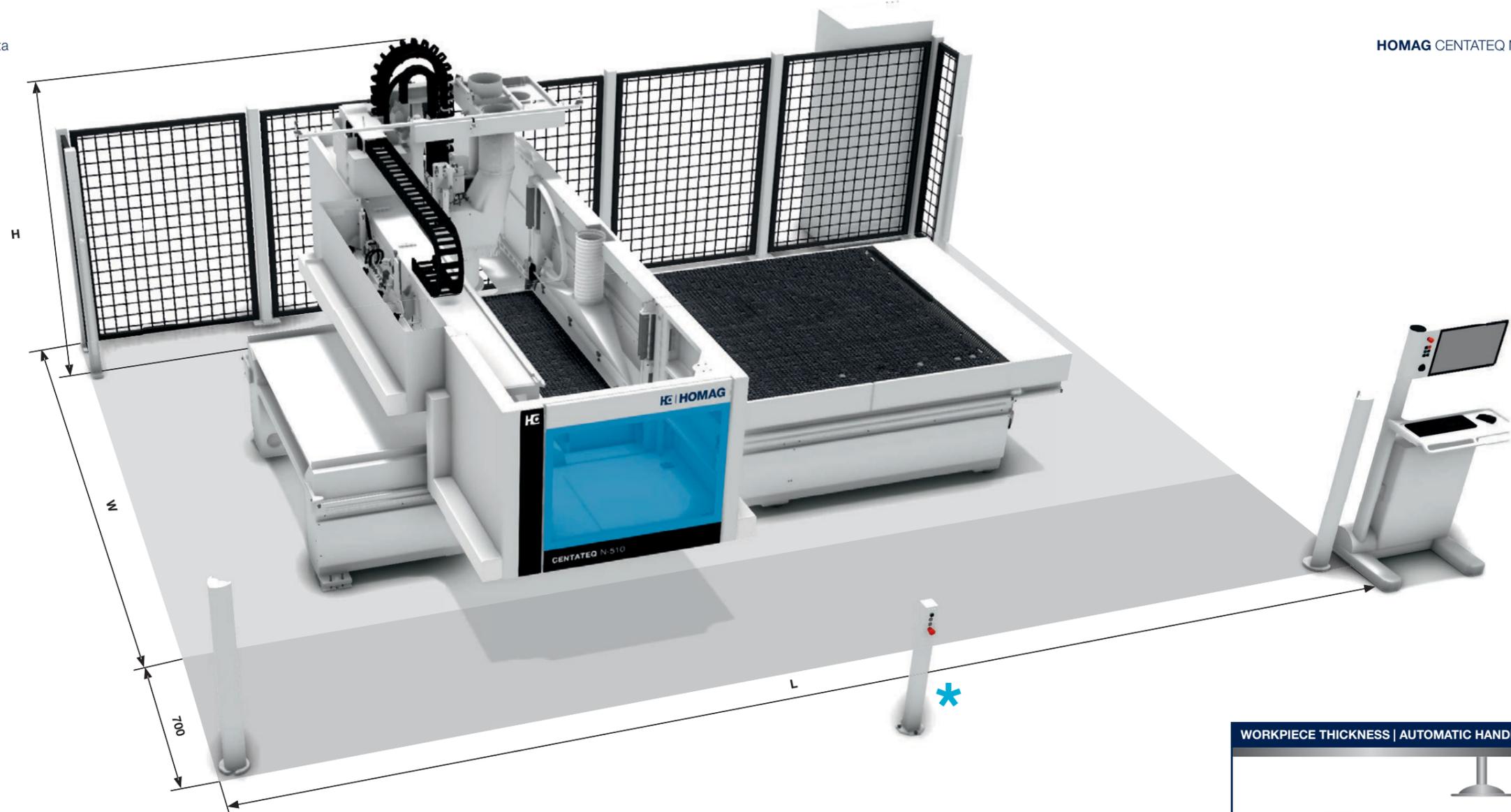
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- ✓ Always low investment
- ✓ Always up to date (no updates necessary)
- ✓ Always easy to use (no complex software)
- ✓ Always helpful

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WORKING DIMENSIONS

Y = Workpiece width [mm/inch] 2 Z-axes	A = 0° with tool diameter 25 mm	A = 90° with tool length 195 mm / with all aggregates	Drilling / Loadable workpiece
/12	1.260 / 49,6	1.260 / 49,6	1.260 / 49,6
/16	1.590 / 62,6	1.590 / 62,6	1.590 / 62,6
/19	1.890 / 74,4	1.890 / 74,4	1.890 / 74,4
/22	2.160 / 85,0	2.160 / 85,0	2.160 / 85,0

X = Workpiece length [mm/inch]	A = 90° with tool length 195 mm / with all aggregates	
	Individual processing	Alternating processing
/25	2.550 / 100,4	-
/32	3.180 / 125,2	775 / 30,5
/38	3.810 / 150,0	1.100 / 43,3
/44	4.400 / 173,2	1.400 / 55,1
/57	5.700 / 224,4	2.050 / 80,7
/76	7.590 / 298,8	3.075 / 121,1

Z = Workpiece thickness [mm/inch]	from table	with clamping device H = 100 mm
	260 / 10,2	160 / 6,3

INSTALLATION DIMENSIONS

Machine type	Installation length [mm/inch]		Installation depth [mm/inch]	Installation height [mm/inch]
	L	W with 14-fold tool changer	H	
/X/Y Compact	ca. X + 4.080 / X + 160,6	ca. Y + 3.890 / Y + 153,1		2.850 / 112,2
/32/22 Concept 2H+*	13.250 / 521,7	6.350 / 250,0		2.850 / 112,2

* For the position of the starter column, refer to the technical data sheet.

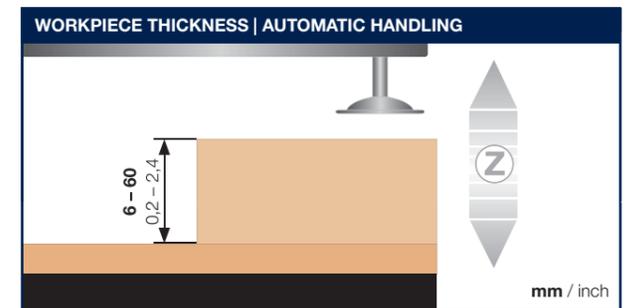


TABLE SIZES / SUPPORT SURFACES





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