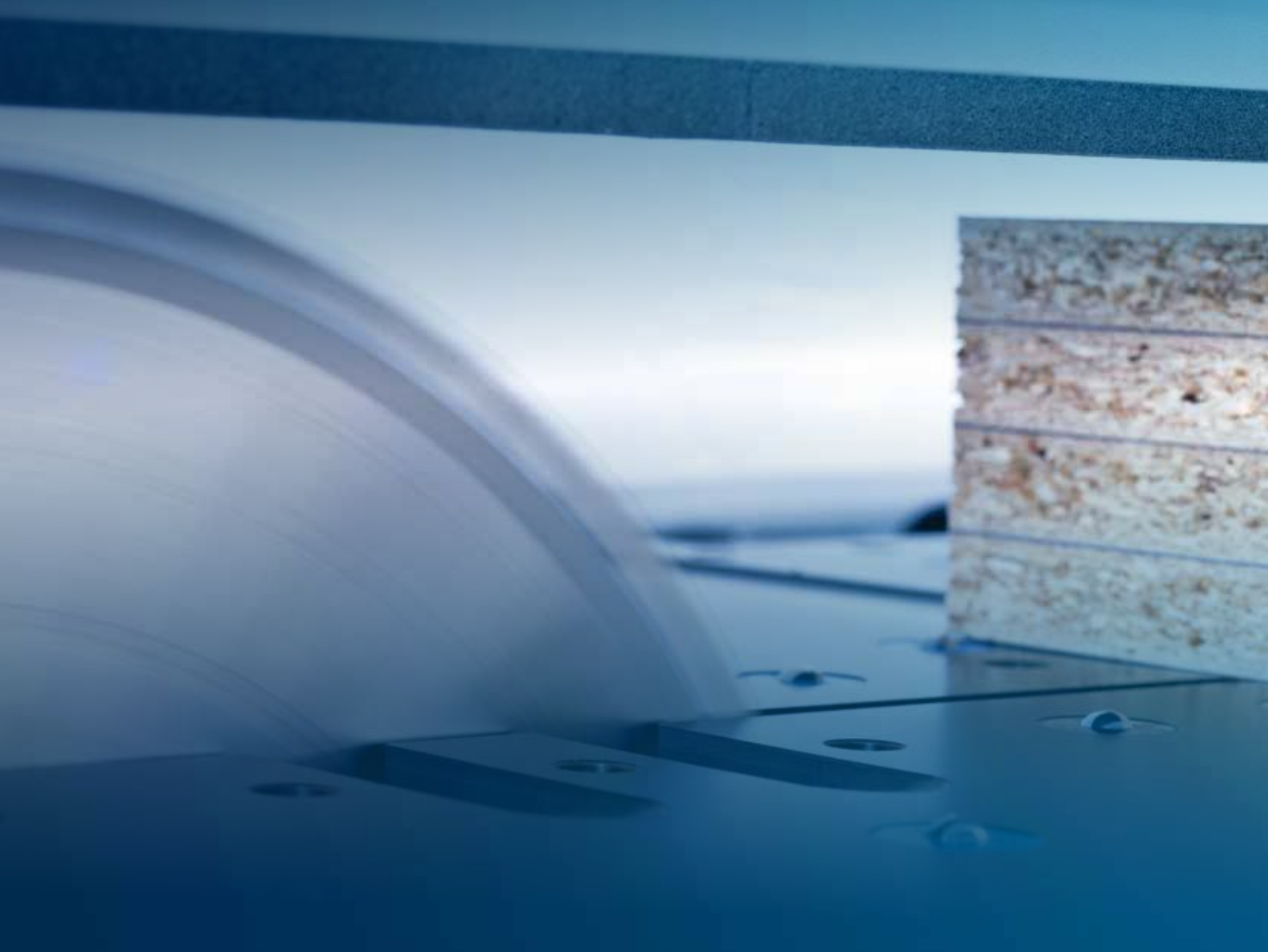


SAWTEQ

B-400

Performance tailored to your needs.
Our panel dividing saw





SAWTEQ B-400 – strong and versatile

In terms of cutting, are you looking for reliable quality, strong performance, and high material throughput? If so, then SAWTEQ B-400 saws are exactly the right choice. Their high saw blade projection and the necessary flexibility for cutting books of material or individual panels guarantees this. Added to this is the high degree of customization that is possible thanks to numerous optional features. This means you can configure a saw exactly to your requirements.

YOUR SOLUTION

MORE AT HOMAG.COM



SAWTEQ B-400

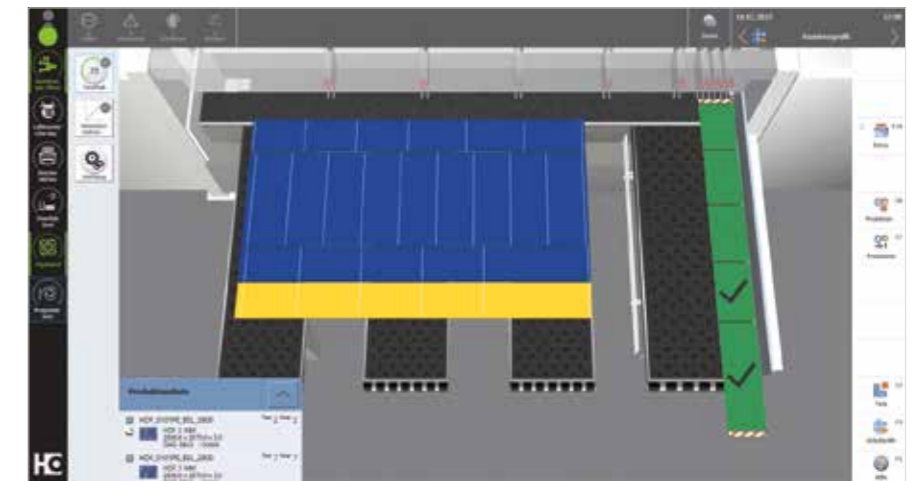
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CADmatic 5 – intuitive to operate and open for digital networking

CADmatic 5 is the state-of-the-art, high-performance saw control system from HOMAG. A wide range of functions and easy to handle. This is ensured thanks to the intuitive operating concept and clear administrative functions. What's more, CADmatic 5 is open for communication with other machines and software solutions.



CADmatic 5 – the change in perspective

The latest generation of the HOMAG saw control system features a new assistance graphic that clearly shows machine operators what they have to do next. Compared to the previous process graphic that showed all the work steps of the saw 1:1 (and can still be called up if required), this new graphic represents a 180-degree change in perspective!

Highlights:

- The new 3D assistance graphic supports the operator and is intuitive to operate, which shortens the training period and reduces errors to a minimum
- This results in efficient processes and a steady output
- Simple handling via tapping and swiping (touch functions)
- Quick change between the individual sections
- Graphically supported diagnostics
- powerTouch user interface
- Ready for connection to tapio
- 24" full-HD monitor with multitouch display in widescreen format

Find out more in the "CADmatic" brochure.

What's the difference? The software!

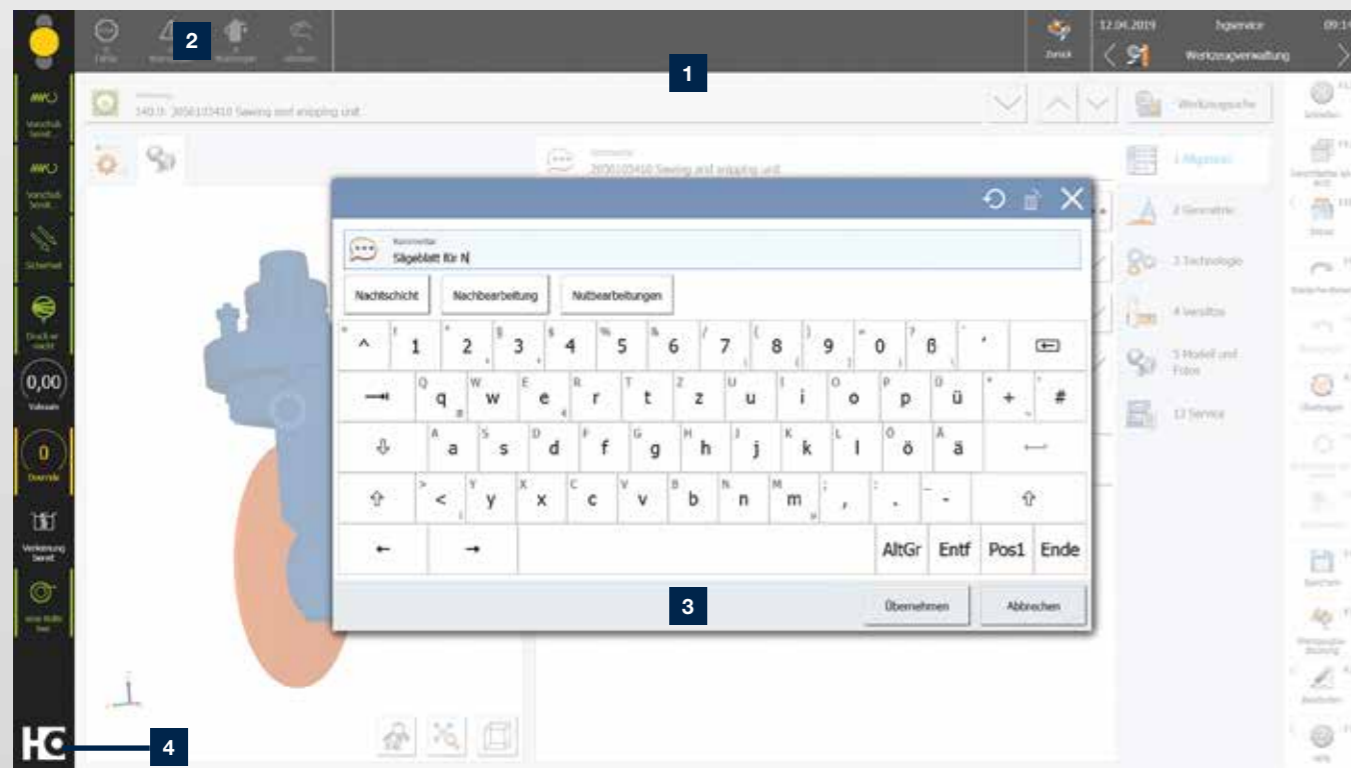
It efficiently integrates the machine into the production process. This results in seamless, intelligently networked processes from start to finish. In short: the right software unlocks new value-added potential. That is what makes it so important.

Next generation of powerTouch: **powerTouch2**

Faster, clearer, easier to use: enjoy the benefits of our further improved powerTouch user interface. We have optimized our standardized operating concept and further adapted it to our customers' needs. You can now control your HOMAG machines more quickly and more intuitively. The new, modern design is clearly structured. The innovative touch operation is designed to enable you to get the desired result easily and comfortably.

With the new powerTouch generation, you can enter valves on the machine 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.

Our successful powerTouch philosophy – **simple, standardized, ergonomic, evolutionary** – systematically enhanced



1 The powerTouch2 screen is clearly laid out and logically structured. You can see all the main information at a glance, but you still have all the details.

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

3 Functional pop-up keyboard that can be kept open, including auto-complete for faster input (when you enter the first few letters, frequently used applications are suggested and you can select them directly).

4 Enhanced "Start" menu that displays additional information (e.g. indicates how many messages there are, or has status bars that show how far the application has progressed) and allows actions to be called up directly (e.g. confirm actions without having to go to the application).

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

HC CREATE DATA

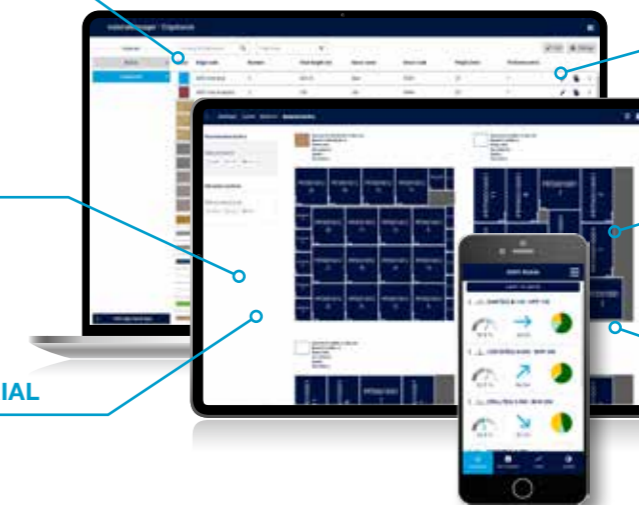
ORGANIZE **HC**

HC USE SUPPORT

OPTIMIZE CUTTING **HC**

HC MANAGE MATERIAL

OPTIMIZE NESTING **HC**



Optional features: increasing productivity with the appropriate cutting optimization software

Production time, material yield, parts handling and logistical process: efficient panel cutting with seamless processes requires intelligently optimized cutting patterns. For HOMAG saws, you can get the appropriate optimization solution on demand – from large to small, as permanently installed software or directly from the tapio cloud. You have the choice because the SAWTEQ B-400 is, like all HOMAG saws, tapio-ready.



intelliDivide – the easy way to first-class optimization results

Simply upload the parts list. Done! The result? A choice of several alternatives for cutting patterns and entire runs. That's how easy intelliDivide makes it.

In detail: the cloud-based optimization software intelliDivide utilizes significantly higher computing capacities than are available for locally installed optimization software and can therefore swiftly provide the user with several alternative optimization results.

This means that with intelliDivide the operator can choose from a variety of options, including results based purely on reducing waste, on the shortest machine time or on the simplest handling, perfectly adapted to the relevant requirements.

Applications are varied and are geared toward both woodworking shops and industry.



Cut Rite cutting optimization software

Efficiency through planning: this short phrase sums up the key benefits of the Cut Rite software. With this world-leading software solution, you can optimize waste and systematically lower the overall costs for cutting.

Highlights

- Seamless, precise and highly efficient processes ensure optimized project control
- Efficient cutting processes which can be individually adapted to your production processes using parameter settings

- Full cost control within the cutting process: material costs and processing time are calculated automatically when the quotation is prepared
- Faster calculations by using all the processors in the PC
- Simple handling: clearly structured, easy to operate and graphics display the information

Find out more in the "Cut Rite" brochure.

Optional feature: IntelliGuide – innovative smart operator guidance

IntelliGuide is the first assistance system in the history of panel dividing technology to allow saws to respond flexibly and intelligently to the actions of the machine operator. The assistance system becomes more intelligent with each stage of expansion: from IntelliGuide Classic, to Advanced, right through to Premium. So you get precisely your solution.



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IntelliGuide

General benefits of IntelliGuide

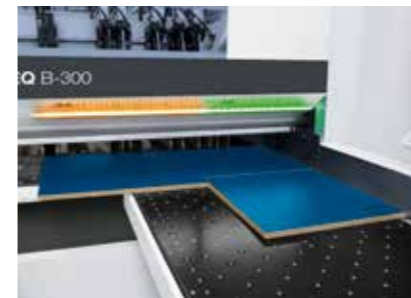
- Intuitive machine operation
- Systematic means of avoiding errors
- Fast processes: operator and saw work in tandem and do not slow each other down
- The operator rarely needs to look at the monitor and so can concentrate on processing the cutting pattern
- Fluid, ergonomic processes for efficient and concentrated work
- Easy to change operator at any time



The foundation:

1. CADmatic 5

IntelliGuide is the result of a long period of technical evolution. It all started with the CADmatic saw control system: software that has since become indispensable. The new version of the software, CADmatic 5, is now more focused on the user than ever before. This is thanks to a new assistance graphic in CADmatic 5 that clearly shows the operator the next step they have to perform. Compared to the previous process graphic that showed all the work steps of the saw 1:1 (and can still be called up if required), this new graphic represents a 180-degree change in perspective!

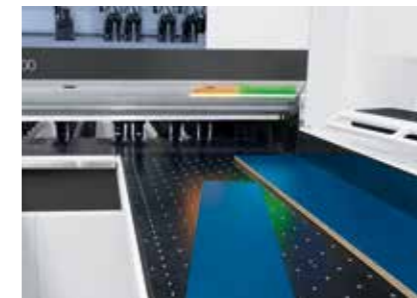


IntelliGuide Classic:

1. CADmatic 5

2. LED strip at the cutting line

- Colored LED signals at the cutting line allow intuitive operation and a quicker, safer way of working
- Using the colored LED elements, machine operators can immediately see if a part has been fully processed, needs to be cut again or can be disposed of as waste
- Based on the LEDs that are lit up, the operator can determine whether the workpiece being processed meets the required specifications



IntelliGuide Advanced:

1. CADmatic 5

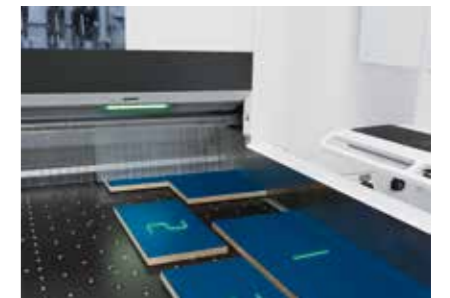
2. LED strip at the cutting line

3. Camera

- The system uses this camera to see which strip or part the operator has deposited and how it has been aligned
- If the intended part is not deposited, IntelliGuide responds to the change of plan in a flexible manner
- If no further action is necessary, the saw starts working after brief confirmation. Otherwise, IntelliGuide provides the operator with feedback and instructions

4. Illumination

- Enhances safety and quality by ensuring the workplace and workpieces are evenly lit
- Improves the appearance of the workplace and makes it even more ergonomic



IntelliGuide Premium:

1. CADmatic 5

2. LED strip at the cutting line

3. Camera

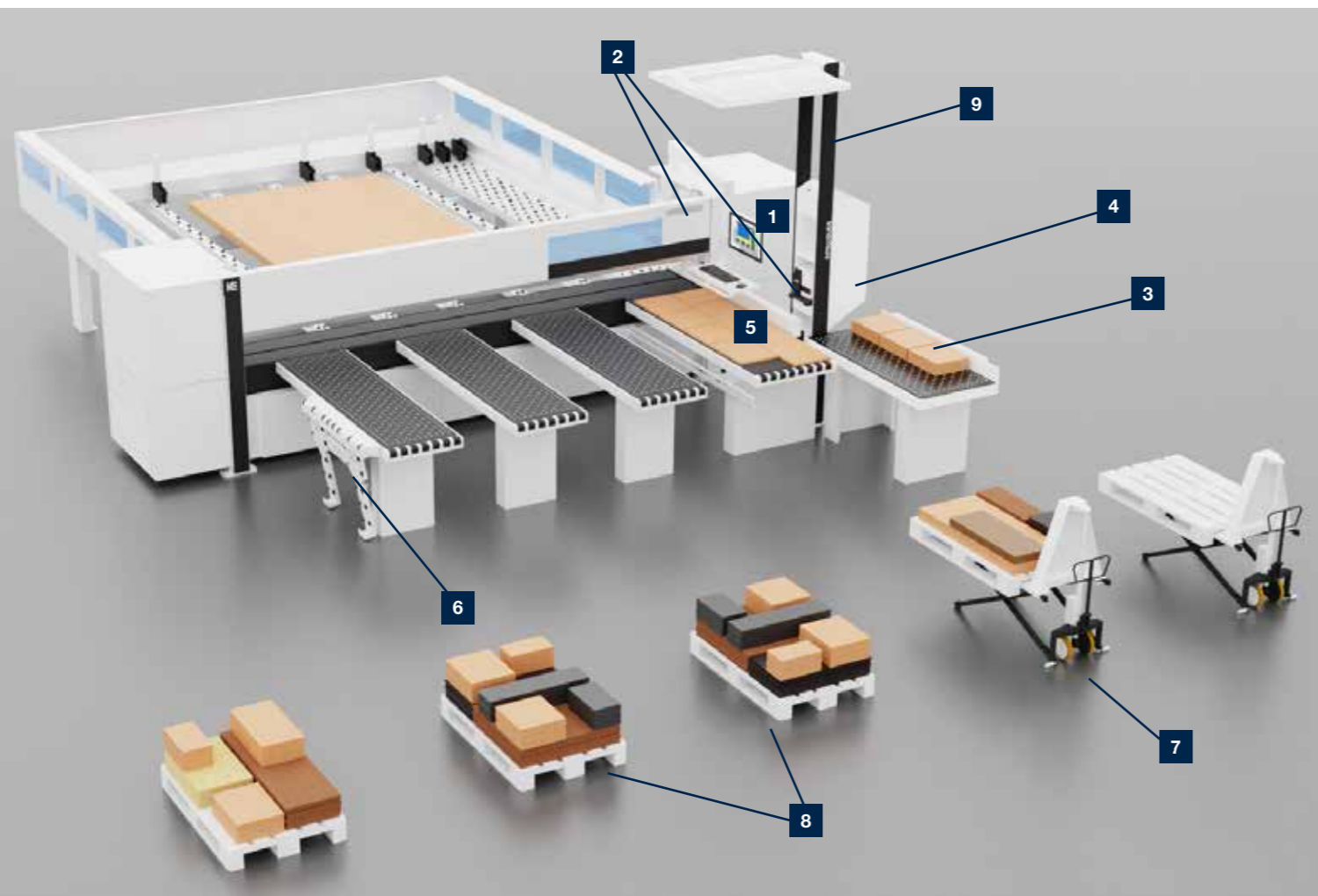
4. Illumination

5. Laser

- Projects clear information regarding processing and handling directly onto the current workpiece
- Arrows, for example, indicate the direction in which a panel needs to be turned and how it needs to be positioned. An X means that the wrong part has been inserted. The trash can icon indicates waste parts
- In short: thanks to the self-explanatory symbols, operators always know which step they need to perform next and can immediately take the appropriate action

Destacking concept: for zero errors – even with mixed stacks

The destacking concept guides the operator from depositing the first part to forming the perfect stacked pallet. This has been achieved by combining software and hardware in an overall concept. The software shows machine operators when and where they should stack each particular part. You select the appropriate hardware according to your requirements. Altogether, this adds up to improved efficiency and ergonomics for all work steps. Times and routes that do not add value are systematically reduced.



- 1** Destacking software as add-on module for CADmatic 5
- 2** Label printing with destacking details – using the manual label printer or the automatic label printer near the pressure beam (page 53)
- 3** Ergonomic parts buffer
- 4** Waste container
- 5** Chopping edge
- 6** Pneumatically operated feeding and destacking aid on the long side of the air cushion table
- 7** Scissor lift pallet truck "HuGo"
- 8** Intelligent stack formation
- 9** intelliGuide Tower (from intelliGuide Advanced)

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Destacking concept



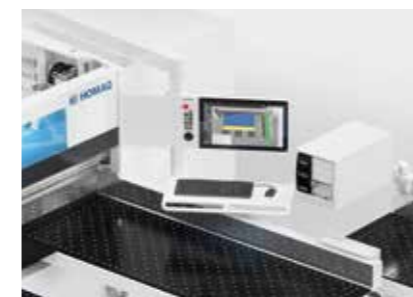
CADmatic destacking module

Which part goes where? The CADmatic destacking module answers this question by means of an integrated destacking graphic. This optional feature is available as part of the Classic and Advanced versions. In both versions, the single parts are color-coded in the cutting pattern and also in the assistance graphic. This means operators can see on the monitor exactly when they must place a particular part on a particular pallet.

Additional advantages with the Advanced destacking module: the operator is not only shown which part the operator should destack on which pallet. The operator also sees exactly where a part is to be placed on the pallet.

This ensures intelligent, stable stack formation. Furthermore, the Advanced destacking module allows the program sequence and the destacking strategy to be controlled more delicately and appropriately. You can specify, for example, whether the stack formation is optimized for subsequent processing steps on the basis of the order or the material. These priorities can be combined with one another and weighted according to the primary objective.

This results in clear, highly efficient operator guidance with less walking between the saw and the destacking location, optimized pallet utilization and process-optimized, stable stack formation.



Parts buffer with swiveling label printer

The parts buffer with swiveling label printer increases the efficiency of processes and optimizes handling.

- The parts buffer indicates to the operator by LED display whether a part should be temporarily stored. This is particularly useful for forming stable stacks or to avoid slowing down the saw, for example. The process of temporarily storing parts is itself very ergonomic.
- The swiveling label printer is located in a convenient position for the operator and dispenses the right label for each part at the right time.



Scissor lift pallet truck "HuGo"

The scissor lift pallet truck "HuGo" is equipped with automatic height control and facilitates ergonomic and intelligent destacking processes. A light barrier controls the automatic raising and lowering of the pallet truck, also allowing you to remove all the parts from the pallet at an ideal processing height — at an edge banding machine, for example.

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Pallet truck "HuGo"

Benefits

- Operators are guided and always know where they need to stack each particular part
- Intelligent stack formation according to individual specifications
- No more time wasted looking for the right destacking location
- Saves space, as demonstrably fewer pallets are required
- Reduces the walking required
- Lowers the error rate considerably

Illustrations may show the technical principle but not the precise machine variant described. Further optional features, for example, may be shown.

SAWTEQ B-400

With the SAWTEQ B-400, you get a compact and powerful single saw that offers impressive versatility. It is ideal for connecting to an automatic HOMAG horizontal storage system, for example.



The highlights

- 110 mm saw blade projection, 125 mm as an option
- Ergonomic table height of 920 mm
- Easy operation
- Reliable and powerful



SAWTEQ B-400 with lifting table

This model sets you up for big jobs. The integrated lifting table for automatic feeding speeds up your production processes by a considerable margin, particularly if you frequently cut panels made from the same material or in books.



The highlights

- Feed either from the back via the lifting table or manually from the front for single panels
- High material throughput for cutting books and series
- 110 mm saw blade projection, 125 mm as an option
- Ergonomic table height of 920 mm



SAWTEQ B-400 as an angular saw unit

As an angular saw unit, the SAWTEQ B-400 is designed for maximum precision in continuous mode. It copes smoothly with cutting large numbers of panels in an industrial scenario. As part of this process, the system divides individual panels just as precisely as entire books of panels. Fully automatically and with long-term reliability.

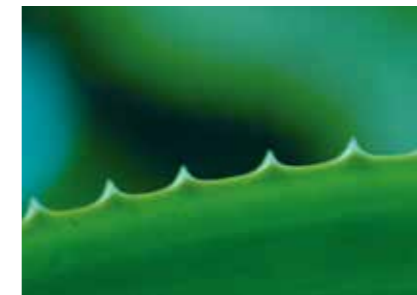
The highlights

- Compact yet powerful angular saw unit
- Ideal for single panels and small books
- High-quality cuts in record time
- 110 mm saw blade projection, 125 mm as an option
- Machine tables equipped with air jets as standard feature



ecoPlus — because efficiency starts with the use of resources

Energy, time, material and personnel are all precious resources. Conserving them increases productivity and saves costs. The ecoPlus technologies from HOMAG help you to achieve this aim, providing countless innovations that save energy and reduce your operating costs. What's more, ecoPlus reduces CO₂ emissions and protects the environment. A worthwhile investment twice over.



ecoPlus technologies for maximum energy savings

- The standby button, a standard feature, puts the saw in an energy-saving standby mode at the touch of a button
- SAWTEQ B-400 with IE3 motors
- Variable speed control by means of a modern bypass circuit for all models with frequency-controlled main saw motor
- The geometry of the saw carriage enables highly efficient dust extraction
- All models are equipped with an energy monitor to monitor consumption
- Less energy required thanks to optimized dust extraction
- Thin-kerf saw blades can be used on request, ensuring less waste among other benefits
- Many innovations for improved ergonomics and smooth production processes

Standard features

Even in the standard version, the SAWTEQ B-400 offers the full range of technical features and can be put to flexible use, either as standalone machine, interlinked with other machines or as part of a production line, depending on the production concept. This makes the SAWTEQ B-400 the ideal solution for woodworking shops and industry in many applications.

High performance is the result of numerous high-tech solutions

Speed, quality and precision during the cutting process can only be achieved if panel materials are moved quickly, gently and with a high level of accuracy. This is ensured by numerous technologies that interact smoothly with one another – from the program fence and pressure beam to the clamps and patented side pressure device.



Program fence for precision and dimensional accuracy

- Resistant to torsion and bending
- Electronically controlled
- Precision guidance on H-girder
- Electromagnetic measuring system guarantees a positioning accuracy of +/- 0.1 mm per meter
- Measuring system involves no wear and no maintenance

Rugged pressure beam for first-class cut quality

- Large-area pressure zone directly at the cutting line reduces material vibrations to a minimum
- Linear guide on both sides
- Toothed rack and pinion ensure the necessary parallel adjustment
- The result is accurate cuts, for books too
- With height control on request (available as an option)



Clamps

- Robust clamps, all with two fingers
- Gentle positioning of material
- The bottom fingers of the clamps can be removed at any time to allow the back of the clamp to be cut in perfect alignment – a fast way to adjust
- The contact pressure can be adjusted (manually) to suit each particular material
- The short, rugged design allows material to be precisely held and guided more gently
- Irrespective of the book height, the top fingers of the clamps do not exert any leverage; instead, they are lowered horizontally and their entire contact surface rests on the material. This increases the working depth and ensures material is held firmly
- Designed for continuous, multi-shift operation



Patented: central side pressure device

- Integrated directly into the saw carriage – shortens cycle times by up to 25% in comparison with conventional systems
- Infinitely variable adjustment of contact pressure – depending on panel thickness. This allows even thin panels, laminates or sensitive materials to be processed perfectly. Another key feature here is the book-height-dependent control of the contact pressure: the higher the book, the greater the pressure



Chopping edge on the right-angled fence

With the help of the chopping edge, waste strips can be disposed of quickly and easily. The robust edge is within easy reach of the operator and ideally positioned on the right-angled fence, allowing waste to fall directly into the container for improved ergonomics.

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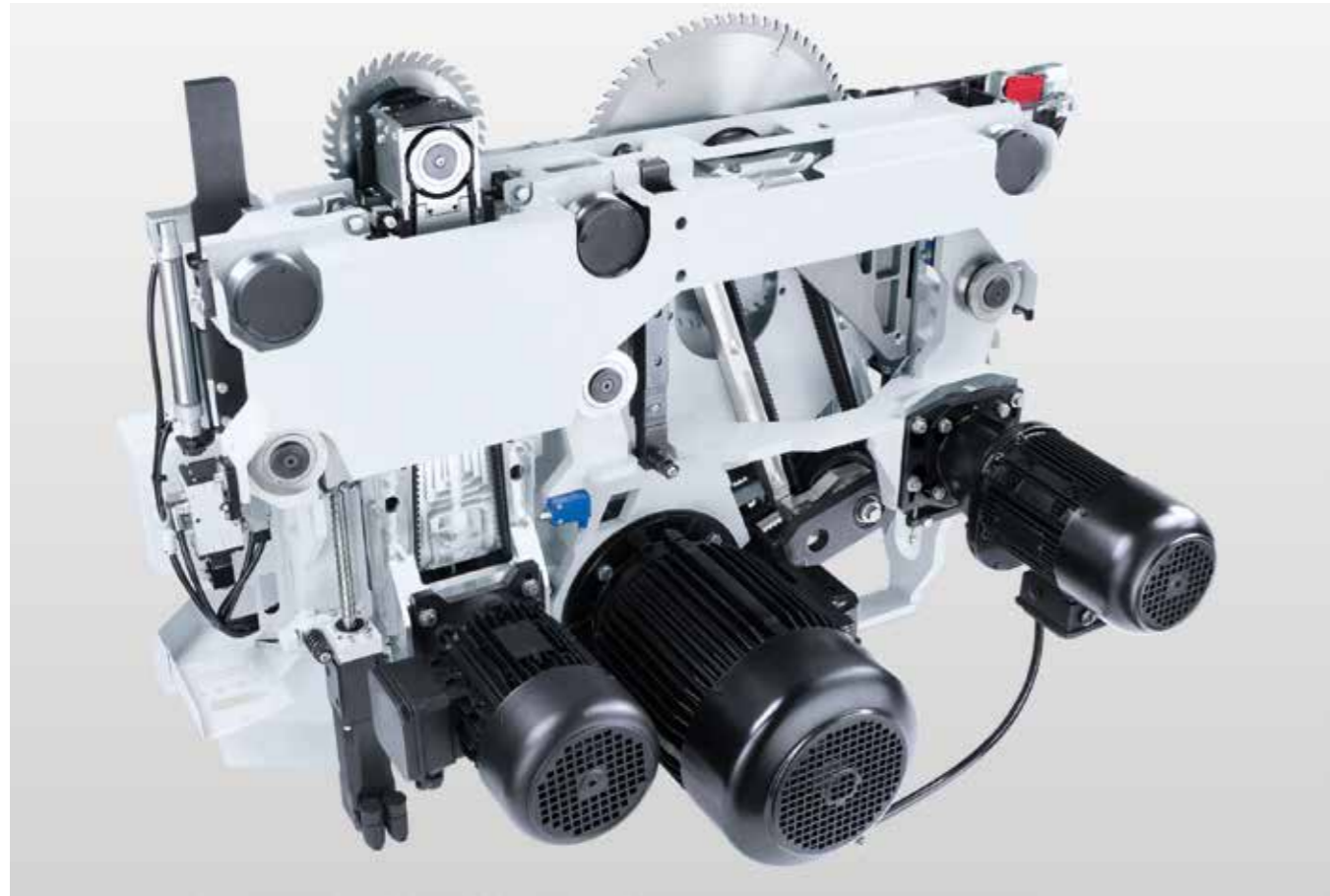
Central side pressure device



Chopping edge

The saw carriage: high performance, low consumption

Exceptionally smooth running, high precision and low energy consumption are the hallmarks of the saw carriage developed especially for the SAWTEQ B-400.



One saw carriage, numerous benefits

- Torsion-resistant, rugged and resilient basic design of the steel plate body for maximum dynamics and precision
- Infinitely variable feed speed – for precision cutting of demanding materials
- Long-term accuracy of saw blade projection
- Fast, precise, low-wear and infinitely variable positioning of the main saw blade by means of linear guide system with rocker arm (patent)
- Energy-saving feature: main saw motor is not raised
- Low-noise, maintenance-free main saw blade drive unit
- Spring-pressured running wheels (optional) always in perfect contact with the guides
- Light sensor with blower unit (available as an option)
- The design of the saw carriage ensures excellent extraction results
- Postforming package, optional (page 48)



Power-Loc system

Making it quick and easy to change the saw blade.



Handy cleaning flap

Quick and convenient: the area under the saw carriage is easily accessible via flaps, allowing easy removal or vacuuming of cutting waste.

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Power-Loc



Cleaning flaps

More technology from the start – for saws with lifting table and angular saw units

Panel dividing saws with integrated lifting table and angular saw units set themselves apart with their automatic feeding system and increased level of automation. In short, these saws work differently from the standard SAWTEQ B-400 and therefore require additional technical solutions even in their standard version.



Powerful feeding system

- Panels are fed to lifting-table saws and angular saw units via an electro-hydraulic four-column lifting table
- Automatic determination of book height
- Equipped as standard with longitudinal profiles and sensing device
- Also suitable for thin materials from 9.5 mm upward. Suitable for materials from 3 mm upward if equipped with the optional micro feed and hold-back device (page 38)
- Maintenance-free and no lubrication required

Separate backing wall

The backing wall is not attached to the machine bed, ensuring precise cuts. This is because vibrations caused by the movement of stacks on the lifting table are not transferred to the machine bed.



Outfeed device for the rip saw (for angular saw units only)

The outfeed device pushes the panel material onto the intermediate table and the trim onto the waste flap.

Intermediate table for transferring to the cross cut saw (for angular saw units only)

- Special motor-driven pushers ensure perfect cross transfer in a quick process
- Roller rails can be raised and lowered
- Lengthwise and crosswise alignment after transfer
- AB-BA system for mirror-image cutting
- Integrated headcut device



Waste flap (for angular saw units only)

- The waste flap opens fully automatically when required and removes cutting waste from the rip saw
- Opens and closes in perfect coordination with the operating cycle of the system



Optional features

More technology for customized production down to the very last detail: these features allow you to supplement the functionality of your saw in line with your requirements – from adding a link to a storage control connection and performing the actual cutting process to labeling and destacking. So you get exactly the solution you need.

Feeding solutions and storage solutions ranging from S to XXL

Manually transporting panel material from the shelf to the saw is time-consuming and often not ergonomic. This is just one of the reasons why automation solutions from HOMAG pay off within a short time. Furthermore, they save a lot of space and are available for almost every size of company. The spectrum of solutions ranges from the basic feeding system via the lifting table through to the large-scale storage control connection to the STORETEQ S-200 and S-500. In addition, all SAWTEQ B-400 saws are open for connection to virtually all storage systems, ensuring the very highest level of performance.





Feed-stacking table with integrated feed

When linked to a simple storage control connection, the saw has to stop working briefly when a new panel is fed. The feed-stacking table now ensures smooth, faster cycles: while one panel is still being cut, the storage system already positions the next panel(s) on the feed-stacking table with integrated feed.

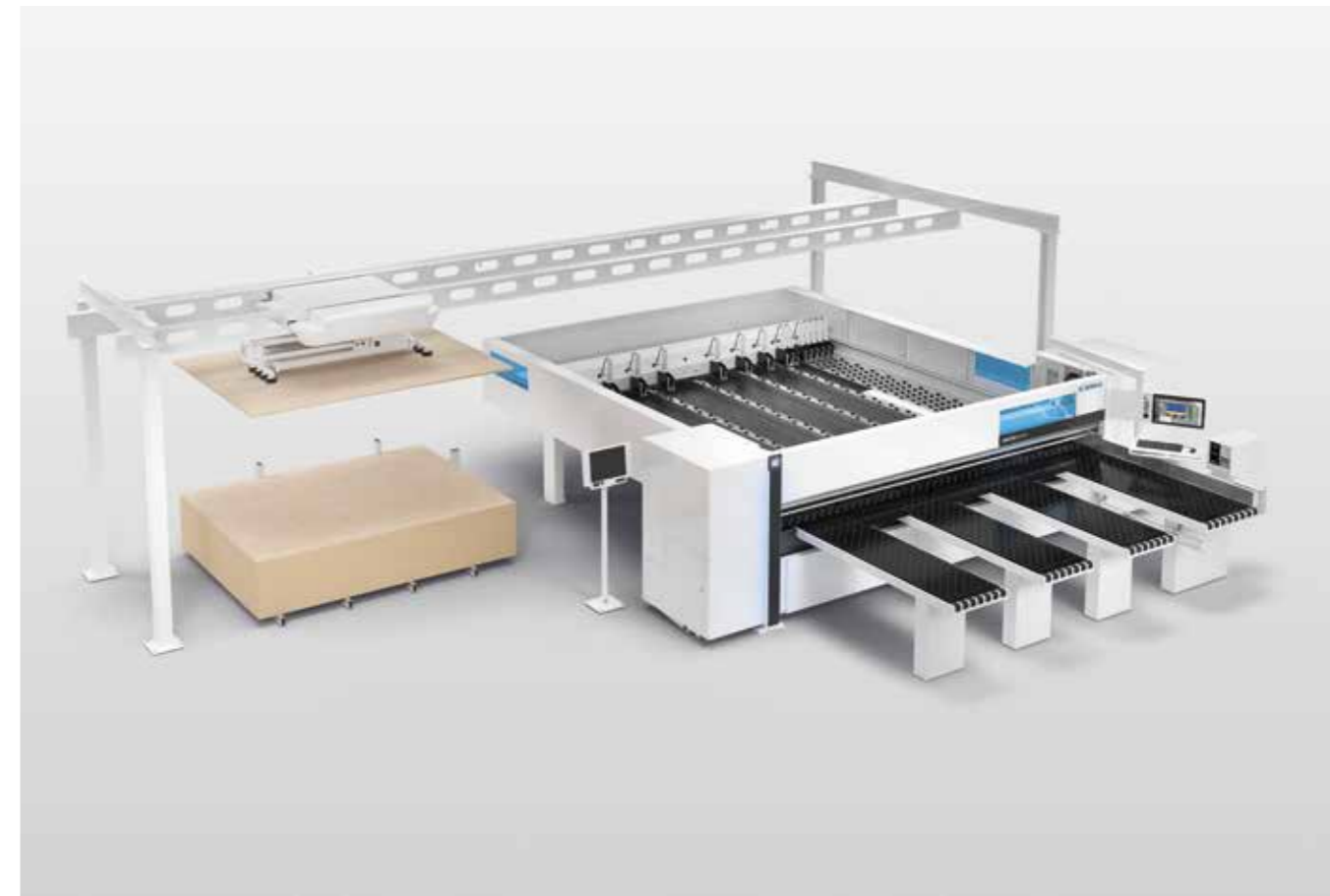
- Ideal in combination with the HOMAG panel labeling system (page 53)
- Can be retrofitted
- Plug & Play: easy add-on
- Without alignment
- Perfectly matched to the saw (height, width, roller rails)
- Virtually no more idle time



Greater visibility while maintaining safety (for single saws without lifting table only)

While angular saw units and saws with lifting table come standard with an all-round protective fence, saws without lifting table have a protective guard around the rear machine table. The sides of this protective guard are made up of individual elements which can be equipped with windows if desired – one is already included as standard. Further windows can be added as needed. This ensures greater visibility while maintaining safety levels.

Illustrations may show the technical principle but not the precise machine variant described. Optional features, for example, may be shown.



Gantry vacuum feeding system HBX 150 (for single saws without lifting table only)

Efficient, ergonomic, gentle on materials: the HBX 150 single-axis feed gantry from **barbaric** is an asset to every aspect of the production line – and it does not take up much space either. Using vacuum suction units, the gantry fetches the next panel required from the stacking position adjacent to or behind the saw, turns the material if needed, and then places it in the saw, all on a just-in-time basis. All fully automatically.

Would you like more information? Find out more in the "HBX 150" flyer

Your benefits at a glance:

- **Increased productivity**
Automatic feeding increases productivity and material throughput
- **Ergonomic cutting**
Manual panel handling by employees is essentially eliminated
- **Gentle material handling**
Thanks to powerful vacuum feeding
- **Low space requirement**
Due to short transport routes for material and small footprint
- **Lower quality costs**
Less scratching and damage caused by manual panel handling

Standard features

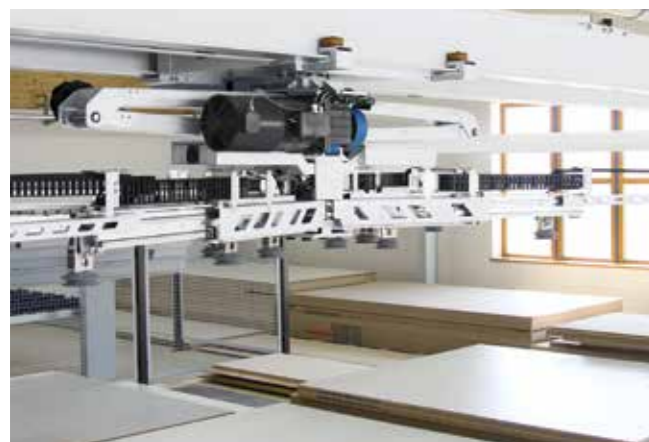
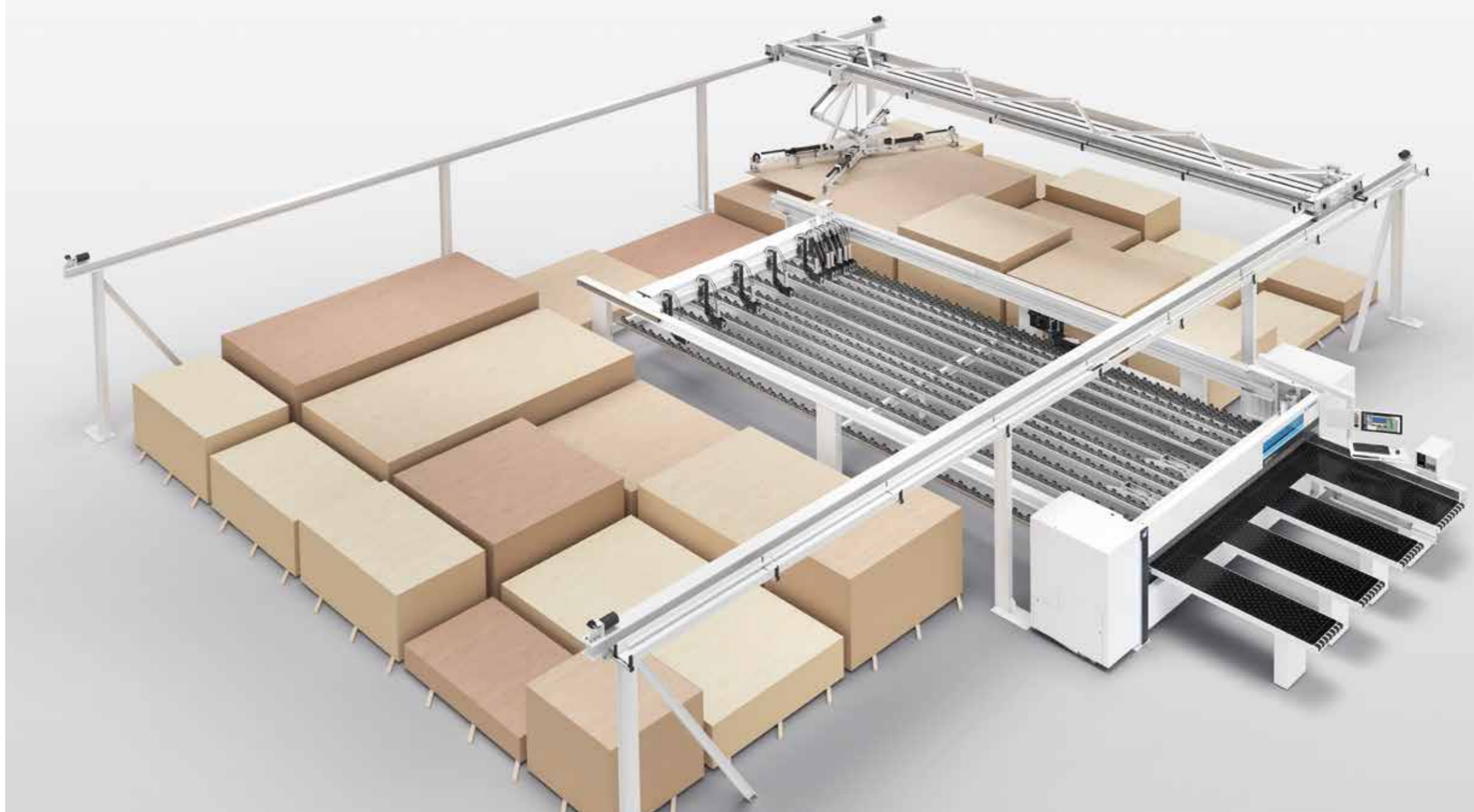
- Basic structure for gantry version
- Traveling lifting device with suction traverse
- Rotating unit for up to 90° rotation
- Automatic weight determination
- 1 stacking position next to or behind the saw
- Manual length adjustment of the suction traverse

Optional features

- Powered length adjustment of the suction traverse
- Stacking station enlarged to 4200 mm panel length
- Additional stacking position

STORETEQ S-200 or S-500 – the right horizontal storage system to meet your needs

Even with the widest possible range of products, high speeds, and full equipment. The STORETEQ S-200 allows you to optimize transport routes and quantifiably save material and time. The STORETEQ S-200 provides intelligent logistics with palpable efficiencies. The STORETEQ S-500, the all-rounder among the storage systems, is used to deliver even more flexibility for a variety of materials.



The **ST71 suction traverse** in X geometry is the ideal optional feature for the STORETEQ S-200. The self-learning cross rail generates the data required for panel handling independently and thus ensures dependable process reliability. The operator does not have to enter anything.

The STORETEQ S-200 optimizes the storage area and saves you valuable production space

- Intelligent standby – the machine only uses energy when it is actually moving
- Optimal material consumption right down to offcuts thanks to well-thought out material management
- Handling without any extra costs – coated panels from a thickness of 3 mm thanks to the ST 61 suction traverse, which is already included in the standard version
- High flexibility due to ideal use of the available area even in the smallest possible space
- Increase in productivity of up to 40% with the same level of personnel



STORETEQ S-500 – flexibility and variety of materials combined in one storage system

The sturdy construction of the STORETEQ S-500 allows for great flexibility for the design in the length and width.

- Span widths of up to 16 m and travel path lengths of up to 100 m and more
- Controlled, low-vibration movements even in the largest version



Great variety of materials

Whether it's handling plastic, plexiglass or laminate, coated or uncoated panels, the STORETEQ S-500 is also a true all-rounder when it comes to handling panels.

- Panel weights up to 350 kg and panel lengths up to 5600 mm
- Smooth transport of even textured surfaces
- High double scissor stability for precise panel handling
- Handling of plastic panels



Ten important reasons to opt for the woodStore warehouse control system

1. Open database systems enables seamless integration
2. Multi Terminal offers transparency and ergonomic operation
3. Smart Connected System: full integration of optimization, processing machine, and storage into one cutting system
4. intelliStore: flexible storage organization that automatically adjusts to production conditions
5. Complete offcuts management prevents the buildup of offcuts
6. Forklift operator management: enables material supply separate from cutting
7. Management of outside storage is integrated
8. Easy Edit production lists: easy to change orders and sequence
9. Various storage strategies enable easy adjustment to production scenarios
10. Optimization of the production sequence enables high performance

woodStore 8. Portable, networked, user-friendly.



Mobile operation

You can control various functions via mobile end devices within the machine's WiFi.



User management

Personnel-controlled warehouse operation with a functional range of up to 40 different user rights.



Smart Connected System

Complete integration of optimization, saw and storage into one cutting system with corresponding standardized interfaces.



Email notification

In the event of any malfunctions in the operation of the storage system, the system sends an email to the email account specified.



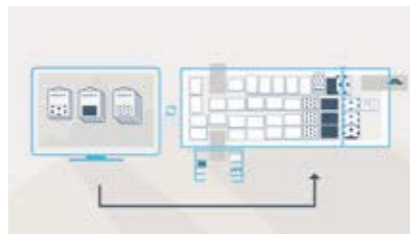
Database access analysis

Customer database is measured for performance and logged to identify digital bottlenecks.



Smart Separation Learning

Fully automatic panel separation that requires only two panel handling settings.



intelliStore

All storage movements are monitored permanently and automatically adjusted to the current production conditions.



Integrated image database

Easy selection and assignment of panel finishes for realistic representation of the panels available in the warehouse.



Scrap management

Automatic return of saw offcuts to storage with built-in panel measurement as part of the material intake process and management of manual offcut stocks with corresponding wizards for easy set-up.



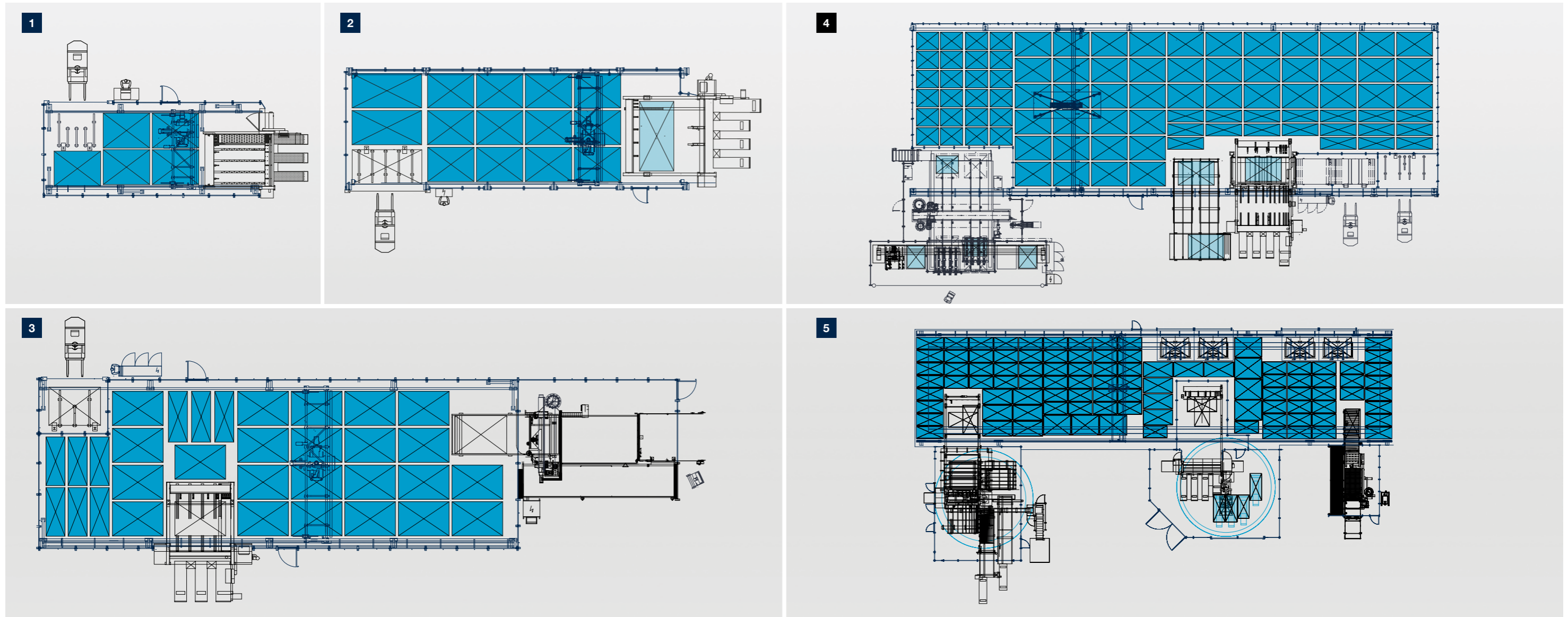
woodStore Analyzer

In a period that can be selected individually, the main functions of the storage system are examined and analyzed according to the customer's requirements in order to determine whether the customer is using the storage system optimally.



Intelligent logistics are a key to success

HOMAG storage systems are intelligent all-rounders that meet all your needs. From the smallest warehouse "that would fit into a double garage" to the multi-story warehouse that would meet industrial requirements. Across all levels of production, the flow of material is optimized, stocks are managed in a transparent way and processing machines are used in an optimal way.



1 Warehouse and saw with 5 stacking positions

Users include those working in traditional joinery

2 Warehouse and saw with 14 stacking positions

Users include fitters

3 Warehouse with saw and CNC processing with more than 20 stacking positions

Users include those working in trade fair and shop construction, suppliers

4 Warehouse with saw and processing center with more than 30 stacking positions

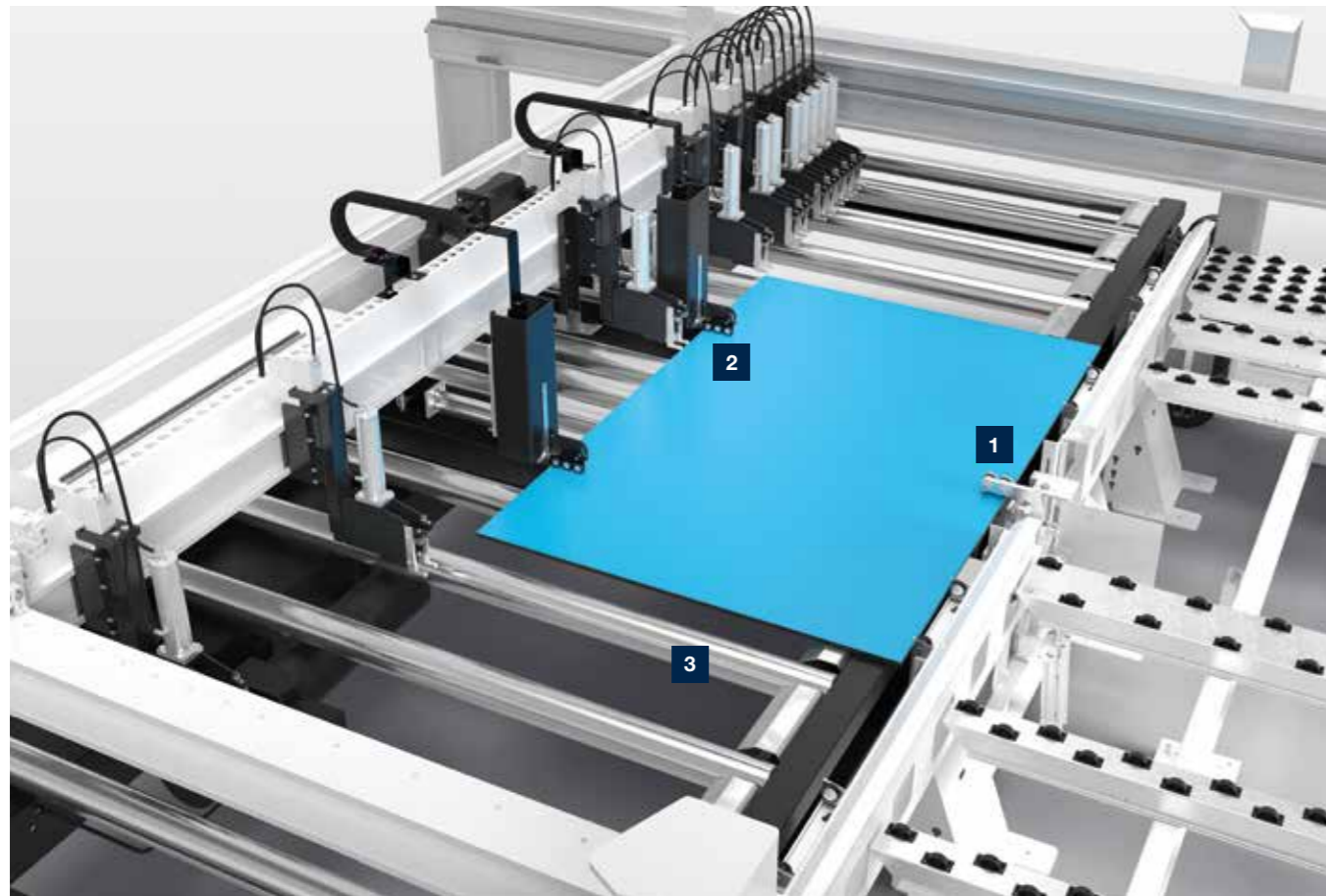
Users include kitchen and furniture manufacturers working on an industrial scale

5 Warehouse with saw, nesting and CNC processing with more than 50 stacking positions

Users include kitchen and furniture manufacturers working on an industrial scale

Extra tools for demanding materials

Exceptional materials require exceptional technical solutions. These are available in abundance for the SAWTEQ B-400 – for thin panels, for example.



1 Hold-back device for thin boards (for lifting-table saws and angular saw units only)

For thin panels from a thickness of 3 mm.

2 Micro feed for thin panels (for lifting-table saws and angular saw units only)

The micro feed option allows thin panels from 6 mm upward to be pushed onto the rear machine table (provided that their properties meet HOMAG specifications). Book height is measured by a non-contact, electromagnetic measuring system which is completely maintenance-free.

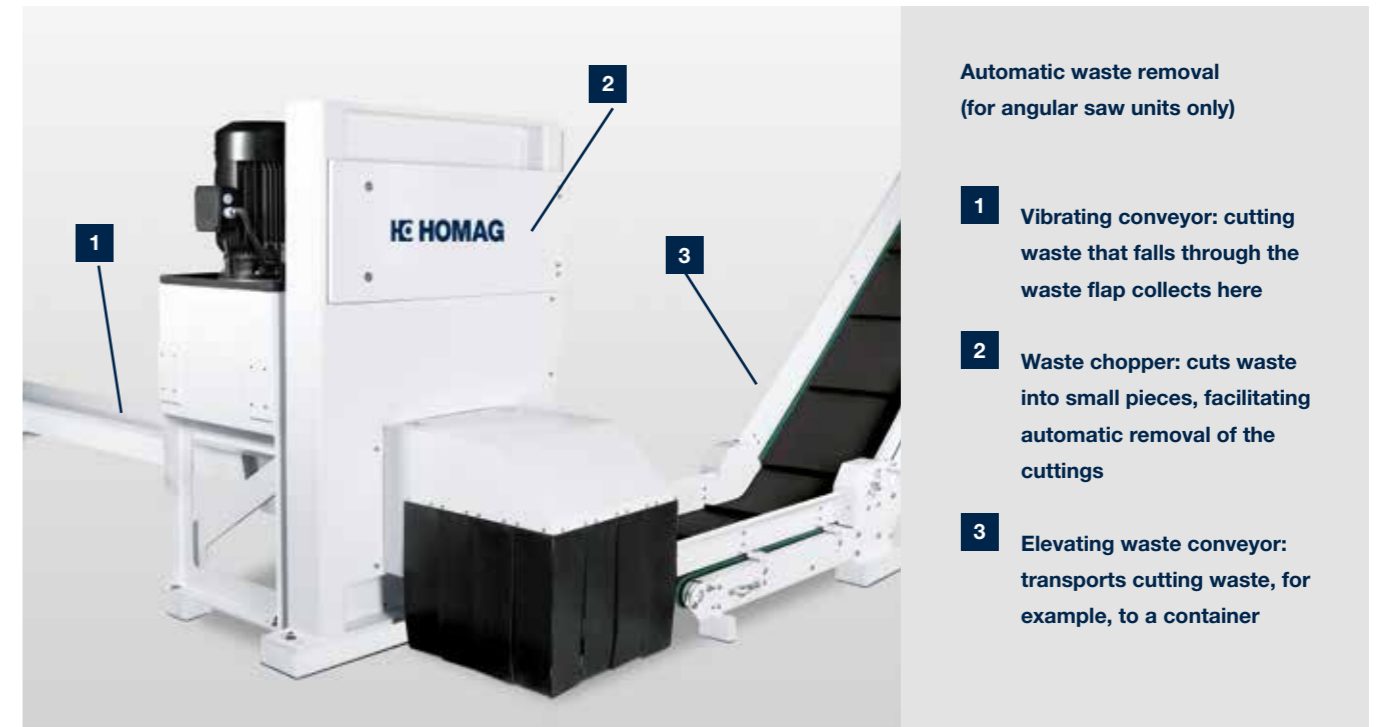
3 Extra impetus for feeding (for lifting-table saws and angular saw units only)

The automatically driven roller conveyor integrated into the lifting table and additional roller conveyors on the side ensure fast stack changeover.

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Micro feed



Automatic waste removal (for angular saw units only)

1 Vibrating conveyor: cutting waste that falls through the waste flap collects here

2 Waste chopper: cuts waste into small pieces, facilitating automatic removal of the cuttings

3 Elevating waste conveyor: transports cutting waste, for example, to a container

Small detail, big impact

It is often the smallest details that make the difference. After all, when these details come together, they can have a noticeable impact on the speed and ease of the production process.



Automatic ejector fence

- Pushes panel remnants from the rear machine table across the cutting line to the front
- You no longer need to reach into the cutting area
- Ergonomic



Turning device for headcuts

- Process integrated perfectly into the machine cycle
- Labor-saving device for operators
- With automatic alignment function
- Less time required for preparation
- Significant increase in output

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Turning device

Power Concept speeds up production

At the heart of this technology is a clamp that can be moved separately. Using this clamp, several strips with different cross cuts can be cut to length together, significantly increasing material throughput.



Power Concept Premium works with:

- An additional clamp that operates independently
- Clamps on the program fence that can be raised out of the overlapping work area as needed
- Re-sorting the strips directly at the saw so that they are specifically matched to the Power Concept Premium. This is based on existing optimization data for the shortest machining times

The Power Concept Premium clamp positions the last strip at the cutting line while the program fence fetches the next panel or the next book of panels from the lifting table. Furthermore, Power Concept makes it possible to process two strips of different lengths simultaneously. Good to know: to ensure your machine operators can master the considerably faster pace of production with ease, we recommend combining the system with the HOMAG destacking concept (page 12) or with intelliGuide (page 10).

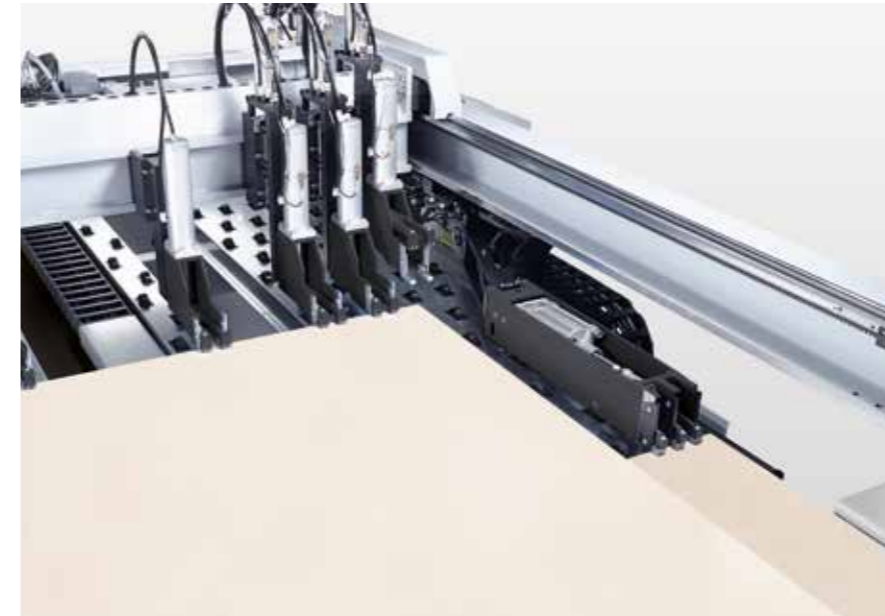
Further benefits:

- Significantly shortened work cycles
- Attractively priced high-tech solution with minimum space requirement
- Precision cutting – even of very narrow strips

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Power Concept Premium



Power Concept Advanced (for saws without lifting table)

This is the low-cost version of the successful Power Concept Premium – designed for panel dividing saws with feeding from the front and for saws with simple storage control connection without integrated feed-stacking table.

Power Concept Advanced can do everything that constitutes Power Concept, but can be integrated far more easily and consequently more economically.

POWER CONCEPT

Up to **40%** more output



Lower costs per cut



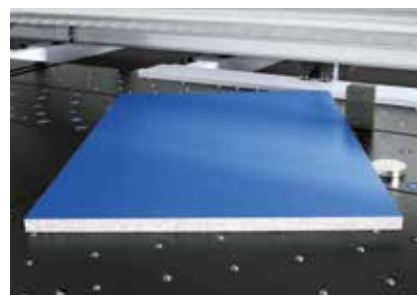
Significantly improved material flow



High material throughput

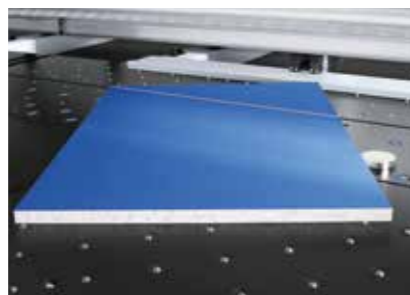
Solutions for special cutting tasks

Not only precise, but efficient. Under this banner, HOMAG offers you countless optional features for particular cutting tasks. Simply select your solution.



Manual angle cut

The angle cut device allows you to control angle cuts using the CADmatic control software.



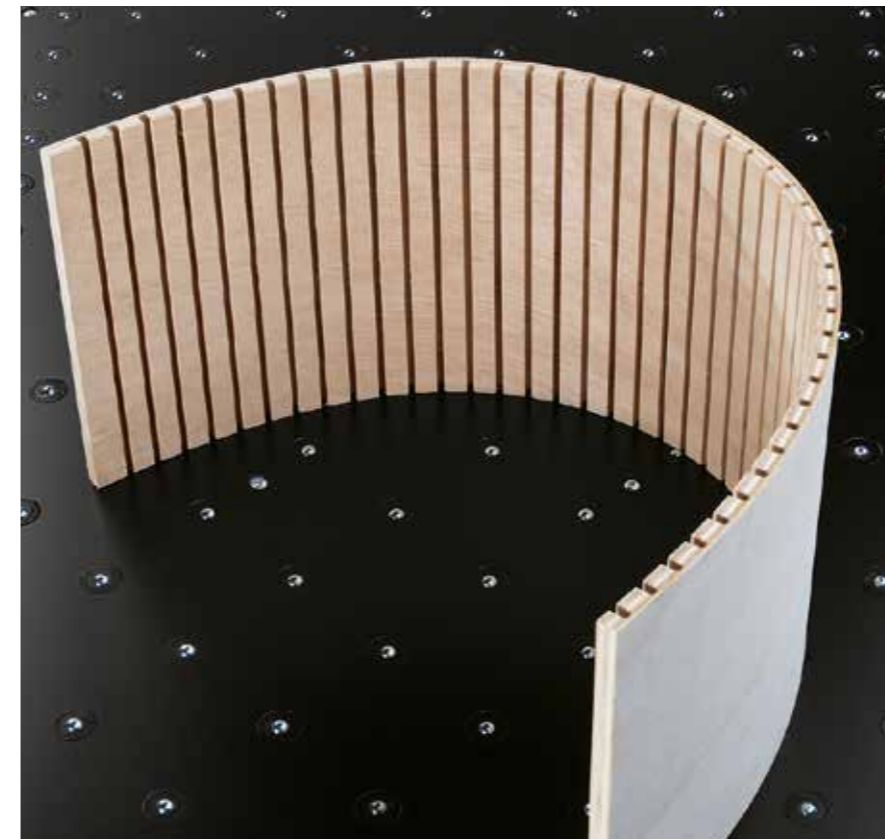
Automatic angle cut device

This technology completes angle cuts fully automatically, after you have entered the respective data in the CADmatic control system.

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Manual angle cut



Grooving and turbo grooving

These options save you an entire work step in post-processing. This is because your saw will also groove the panel material. The turbo grooving option completes the grooves even much faster than a processing center.

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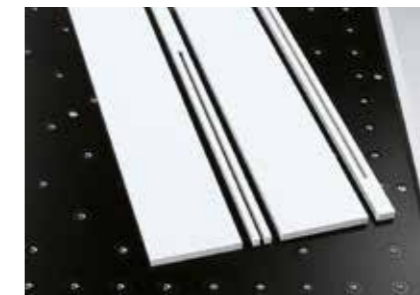


Grooving



Cut-out and stress elimination cut

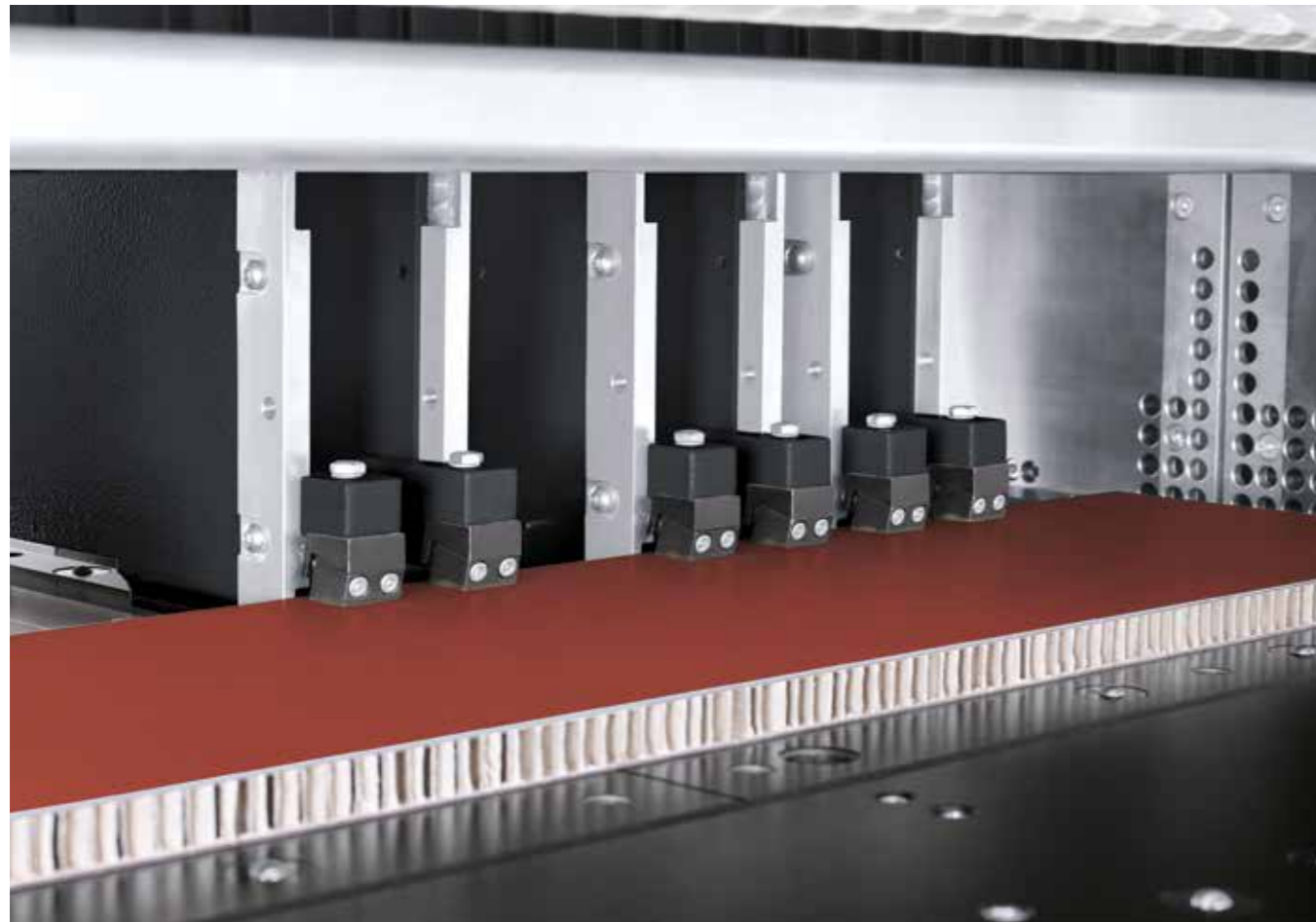
Stress in the material is released when it is cut and can affect the quality of dimensions and cuts. The stress elimination cut provides a solution here. Systematic preliminary cuts can be defined during optimization and release the tension in the material. The additional cut-out feature allows you to produce both cut-outs and intermittent grooves in panels, as required for kitchen sinks or doors, for example.



Cut-out function



Stress elimination cut



Soft Touch for pressure-sensitive material

As the diversity of materials increases, so do the requirements: pressure-sensitive lightweight boards, composite boards and plastic sheets are steadily gaining in importance. HOMAG has a range of solutions in its portfolio designed to meet these requirements. Simply ask your customer advisor.



High-precision laser guide beam

- Especially for solid wood, veneered panels and other materials with grain structure
- Pinpoint positioning right down the line

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Laser guide beam



Extra-long cutting lengths

All SAWTEQ B-400 saws are optionally available with a 5600 mm cutting length.

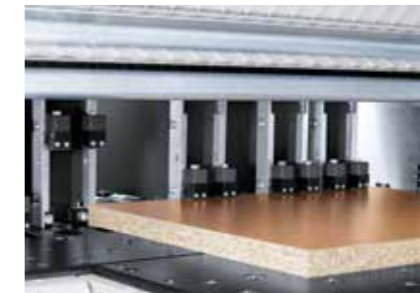
Additional clamps

- For an even better grip on thin, narrow or smooth materials
- For increased material throughput

Pneumatically operated trim stops

The trim stops are attached to the clamps and are activated as needed by the CADmatic machine control unit.

- Robust
- Adjustable to common panel thicknesses
- Gentle handling of sensitive materials with overhanging covering layers
- Precise positioning



Clamp activation

This option prevents damage to edges. Now also available: clamp activation in "measuring" mode.



Cutting gap closer

Open and close automatically straight after cutting, which prevents narrow strips or trimmings from getting caught in the cutting line. This also ensures that the system is readily available.

Each cutting gap closer is individually controlled and monitored to achieve greater reliability (high-level availability)



Pneumatically operated trim stops



Program-activated clamps



Cutting gap closer

The perfect postforming cut

This optional feature is available in two versions. Both include a scoring saw raised by a motor, complete with automatic adjustment.



Version 1: ascending postforming

- Vertical scoring saw (VSSH)
- Ensures perfect cuts on soft-formed and post-formed parts
- Maximum saw blade projection: 55 mm



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Postforming

Version 2: ascending and vertical postforming

- VrSS as described in version 1
- Additional vertical scoring saw (VSS) with a maximum saw blade projection of 90 mm
- Scores the edge of the entire book (score depth up to a maximum of 15 mm)
- Ideal for edges covered with veneer, paper, ABS, etc.

combiTec performs recuts during the cutting process

Efficiency means saving time, material and costs – just like combiTec. The innovative recut function is ideal for all businesses that work in small production batches or even produce in batch size 1.



combiTec speeds up batch size 1 production

The combiTec recut function is now available for all SAWTEQ B-400 saws and optimizes batch size 1 production. This innovation completes all recuts fully automatically during the regular cutting process. Even complex cutting patterns can be generated and flexibly implemented. That saves time and material, thus reducing costs.

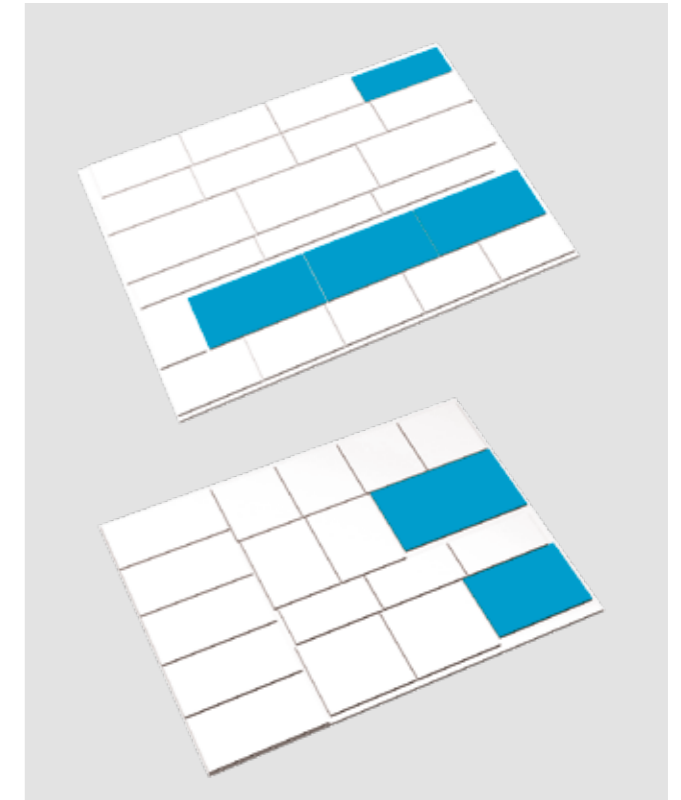
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combiTec for angular saw units



combiTec for single saws



The benefits:

- Reduced material costs due to less waste
- No manual post-processing
- High speed
- Low unit and tool costs
- Excellent price/performance ratio

Air cushions for ergonomic operation

How can your machine operators handle heavy or excessively long parts with ease, even those that are susceptible to scratches? With innovative, tailored machine tables and air cushion tables from HOMAG of course! The choice is yours.



Movable air cushion table

The air cushion table is easily moved along linear guides and offers you a mobile work surface and storage area. It allows you to move small panels, large panels or books of panels more ergonomically and with less risk of damage.



Tilttable air cushion table

- Prevents thin materials from sagging
- Increases the work surface
- Primarily for large panels
- Folds down for easy access to the cutting line

Extended air cushion tables (not shown)

- Extended from 2160 mm to 2810 mm
- Greater freedom of movement
- Better connection to destacking systems
- Very useful when cutting large-format panels

Wider table elements

Air cushion tables are optionally available in a width of 800 mm instead of 650 mm. Just one, two, three or all four – whatever is best for your production.

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Air cushion tables

dustEx: making dust a thing of the past!

The more dust and chips that can be taken away by the dust extraction system, the better. After all, dust and chips can cause scratches on sensitive surfaces.

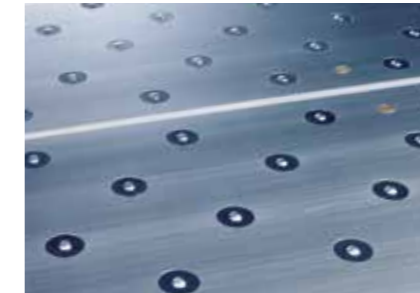


Patented dustEx technology

dustEx guides dust and chips on a direct route toward the dust extraction system. How does it work? Using combination air jets and an optimized extraction geometry at the right-angled fence. To complete the dustEx package, we recommend using a dust-trap curtain on either side of the pressure beam.

Air nozzles throughout the machine table (standard feature for angular saw units)

Anyone working with sensitive material or especially heavy panels and books will benefit from the machine table being equipped with air jets throughout.



Anodized aluminum machine bed plates

The special coating ensures exceptionally gentle material handling. Ideal for materials with highly sensitive surfaces.



Dust-trap curtain on both sides

- Attached to the front and rear of the pressure beam. When combined with the label printer at the pressure beam (page 53) dust-trap curtain at the rear only
- Protects operators from dust
- Improves dust extraction
- Ideal for dust cuts

Designer lighting (not shown)

Comprising:

- LED illumination of the cutting line
- LED illumination of the saw blade change area
- LED illumination in the switch cabinet

The benefit: simple, ergonomic working practices that protect the eyes.

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dustEx

Custom part designation

Whether generated automatically or manually on demand: with labeling solutions from HOMAG, you can clearly label each individual part and ensure parts can be identified at subsequent processing stations.



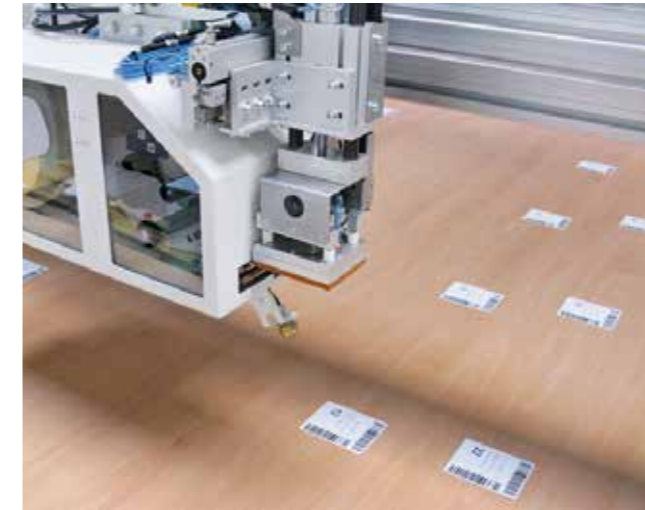
Label printer for superb results

The label printer from HOMAG allows you to print customized labels directly at the saw and design them to include bar codes, text and graphics if required. If you also use our Cut Rite optimization software, the material goes directly to the next process step with printed instructions. In this way, you can integrate the saw perfectly into your production flow.



Swiveling label printer

The label printer can also be swiveled horizontally to ensure ergonomic working practices. Available in combination with the parts buffer (page 13).



Panel labeling system

The innovation for saws with automatic storage control connection: the HOMAG panel labeling system labels the unprocessed panel before it is cut – independently of the saw, in non-productive time that previously went unused. It can also be combined with the feed-stacking table with integrated feed (page 30).

- Smallest part size 170 x 170 mm
- Up to 10 labels/min, optionally up to 15 labels/min
- Labeling independent of cutting process
- Saves time, because non-productive time is used productively
- Optimizes handling during destacking because all the parts are already labeled
- Simplifies and speeds up production processes
- Automated parts tracking
- Can be retrofitted
- For smooth processes



Fully automatic labeling

The labeler is located near the pressure beam, i.e. in your field of vision, and labels the finished parts/books even when several strips are processed simultaneously side by side (Power Concept). It makes no difference whether you feed the panels from the front or the rear. If desired, the position of the label can be individually controlled.

- Suitable for panels, offcuts and finished parts
- Gives precise details of the destacking location
- Gives precise instructions for further processing
- Saves time
- Minimizes errors
- Guides the operator

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Manual labeling



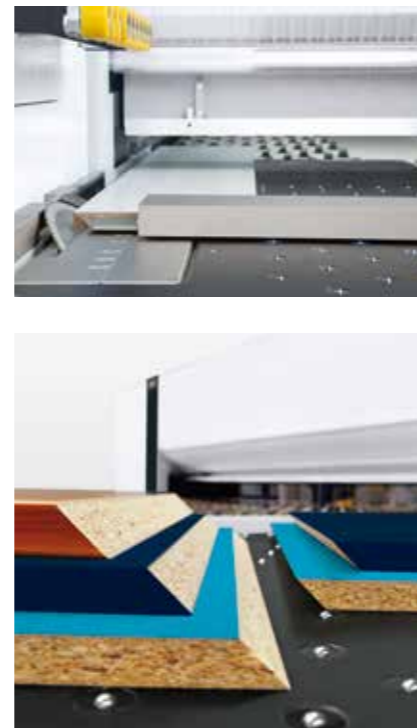
Panel labeling system



Fully automatic labeling

module45 – giving your saw the scope to produce bevel cuts

With module45, you can now produce all cuts, including bevels, on one and the same saw. Work efficiently and flexibly without changing station, at infinitely variable angles ranging from 0 to 46 degrees.



The technology

- module45 consists of a stationary saw carriage with a tilting saw blade that can be adjusted infinitely variably to angles of 0 to 46 degrees
- When viewed from the front, the unit is integrated into the air cushion table on the far left
- The table plate can be opened, allowing easy access to the saw carriage for changing saw blades
- Other features include dedicated systems for contact pressure and dust extraction, plus a fold-down right-angled fence for maximum handling flexibility at the front of the saw

Incorporate bevels into cutting patterns

Now you can also incorporate bevel cuts into your cutting patterns: either using the Cut Rite optimization software when preparing work in the office, or when inputting the patterns directly in CADmatic. Parts to be processed with module45 are then cut (oversize) and the operator only needs to set the angle of the bevel on module45 and start the cut.

The benefits of module45

- You no longer need a sliding table saw for bevel cuts
- Higher energy efficiency as two machines have been combined into one
- Easy one-man operation
- Less waste and higher quality thanks to less transport damage as the material remains on the one machine
- Greater ergonomic and safety benefits than a circular saw
- Retrofit possible at any time on request

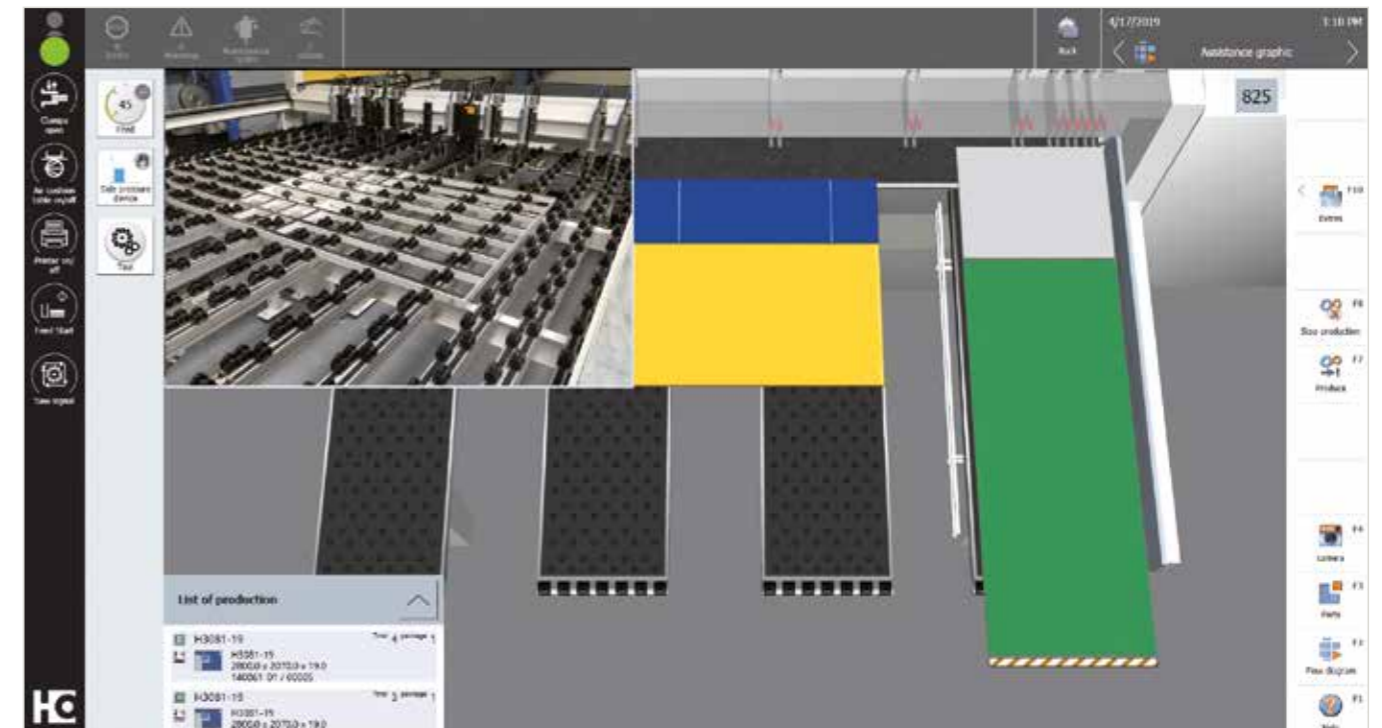
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module45

Extras for improved efficiency and control

Do you want to produce even more efficiently and monitor production processes with greater ease? You will find the right technology solutions for your cutting application here.



Everything in view – with video monitoring

- Display of the camera image via the CADmatic control software
- You always have the rear machine table and feed system in view
- Camera pictures can be recorded on request to diagnose errors and for workflow optimization purposes and can be sent to the HOMAG Service department

Additional start-stop key

- Allows the program sequence to be started independently of the operator control panel
- Equipped with an emergency stop key



materialManager Advanced

- Automatically optimally adjusts the machine to the material being cut, thereby ensuring greater performance and quality in production
- Also helps less experienced operators get more out of the machine
- Extends the service life of the tool and reduces interruptions due to tool changing

| TECHNICAL DATA* | | | |
|--|--|--|--|
| Model | B-400 | B-400 with lifting table | B-400 as an angular saw unit |
| Saw blade projection (mm) | 110 (optional: 125) | 110 (optional: 125) | 110 (optional: 125) |
| Cutting length/width (mm) | 3200/3800/4300/5600***** | 3200/3800/4300/5600***** | Rip saw: 3200/4300/5600 Cross cut saw: 2200 (2100*****) |
| Lifting table width (mm) | | 2200 | 2200 |
| Program fence speed (m/min) | up to 90 ** | up to 90 ** | Rip saw: up to 90 ** Cross cut saw: up to 130 ** |
| Saw carriage speed (m/min) | up to 130 (optional 150) | up to 130 (optional 150) | up to 130 (optional 150) |
| Main saw motor (kW) | 50 Hz: 18 (optional 24) 60 Hz: 21 (optional 28) | 50 Hz: 18 (optional 24) 60 Hz: 21 (optional 28) | 50 Hz: 18 (optional 24) 60 Hz: 21 (optional 28) |
| Scoring saw motor (kW) | 2.2 | 2.2 | 2.2 |
| Average total air requirement (NI/min) | 120 | 210 | 450 |
| Required compressed air supply (bar) | 6 | 6 | 6 |
| Dust extraction system (m ³ /h) | 3800 (5230****), 26 m/sec | 3800 (5230****), 26 m/sec | 6600 (9030****), 26 m/sec |
| Max. stack height without pit (mm) | – | 560 (up to 4300 cutting length) 450 (up to 5600 cutting length) | 560 (up to 4300 cutting length) 450 (up to 5600 cutting length) |
| Max. stack weight (t) | – | 4 (for 5600 mm cutting length: 7) | 4 (for 5600 mm cutting length: 7) |
| Processing height (mm) | 920 | 920 | 920 |
| Air cushion tables (mm) | 3/3/4/5 x 2160 | 3/3/4/5 x 2160 | 2 x 2160 |

* Values relate to the standard features

** Forwards 25 m/min

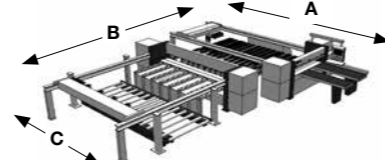
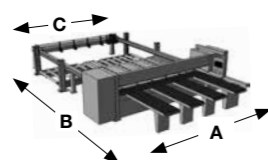
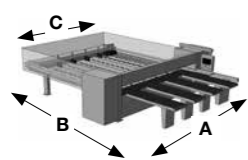
*** Dim. A: incl. 64 mm for dust extraction connection. Dim. C: standard program fence width. There are wider dimensions for the lifting table.

**** For the 5600 mm cutting length

***** Only available in right-oriented version

***** Maximum width that can be aligned

Technical data and photographs are not binding in every detail. We reserve the right to make changes in the course of further development.



| MACHINE DIMENSIONS*** | | | |
|-----------------------|--------|--------|--------|
| B-400 | A (mm) | B (mm) | C (mm) |
| B-400/32/32 | 5364 | 6543 | 3709 |
| B-400/38/32 | 5924 | 6543 | 4269 |
| B-400/38/38 | 5924 | 7143 | 4269 |
| B-400/43/32 | 6514 | 6543 | 4859 |
| B-400/43/43 | 6514 | 7693 | 4859 |
| B-400/56/56 | 7864 | 9043 | 6209 |

| MACHINE DIMENSIONS*** | | | |
|--------------------------|--------|--------|--------|
| B-400 with lifting table | A (mm) | B (mm) | C (mm) |
| B-400/32/22 | 5364 | 9963 | 3636 |
| B-400/38/22 | 5924 | 9963 | 4196 |
| B-400/43/22 | 6514 | 9963 | 4786 |
| B-400/56/22 | 7864 | 11,413 | 6136 |

| MACHINE DIMENSIONS*** | | | |
|------------------------------|--------|--------|--------|
| B-400 as an angular saw unit | A (mm) | B (mm) | C (mm) |
| B-400/32/22 | 8020 | 11,760 | 3636 |
| B-400/43/22 | 9170 | 11,760 | 4786 |
| B-400/56/22 | 10,520 | 11,760 | 6136 |

| STORETEQ S-200 STORAGE SYSTEM | | |
|--|---------------|----------------------|
| | Basic machine | With optional extras |
| Span width (mm) | 5000 | 12,000 |
| Frame length (mm) | 10,000 | 50,000 |
| SPEED | | |
| Bridge (m/min.) | 60 | 110 |
| Carriage (m/min.) | 80 | 120 |
| Lift drive (m/min.) | 30 | 45 |
| Workpiece length (mm) | 2000–4200 | Max. 5600 |
| Workpiece width (mm) | 800–2200 | Min. 400 |
| Workpiece thickness, unprocessed panels (mm) | 12 and higher | 3 and higher |
| Workpiece thickness, coated (mm) | 8 and higher | 3 and higher |
| Workpiece weight (kg) | 250 | 250 |
| Stack height (mm) | 2100 | 2500 |

| STORETEQ S-500 STORAGE SYSTEM | | |
|--|---------------|----------------------|
| | Basic machine | With optional extras |
| Span width (mm) | 5000 | 16,000 |
| Frame length (mm) | 10,000 | 50,000 |
| SPEED | | |
| Bridge (m/min.) | 60 | 120 |
| Carriage (m/min.) | 80 | 120 |
| Lift drive (m/min.) | 30 | 60 |
| Workpiece length (mm) | 2000–4200 | Max. 5600 |
| Workpiece width (mm) | 800–2200 | Min. 400 |
| Workpiece thickness, unprocessed panels (mm) | 12 and higher | 3 and higher |
| Workpiece weight (kg) | 250 (ST 61) | 350 (ST 71) |
| Stack height (mm) | 2100 | 2500 |

HC LIFE CYCLE SERVICES

Improved performance, more efficient processes, faster help, assurance of availability and smarter workin

TEAM & COVERAGE

Largest global service network in the industry with over 1,350 personnel.

INSTALLATION & COMMISSIONING

For a smooth start, we only let proven experts manage your setup.

OPERATION & CONTROL

After teaching your personnel the intuitive control system, our clever apps help to make the operator's life much easier.

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.

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

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 35,000 spare parts immediately available, we can deliver 85% of your orders fast.

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

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.

ANALYSIS & SUSTAINABILITY

On request, we analyze all your processes with proven tools and procedures (LeanSixSigma). We have a large, certified team of experts for this purpose.

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.

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



HOMAG Group AG
info@homag.com
www.homag.com

YOUR SOLUTION