

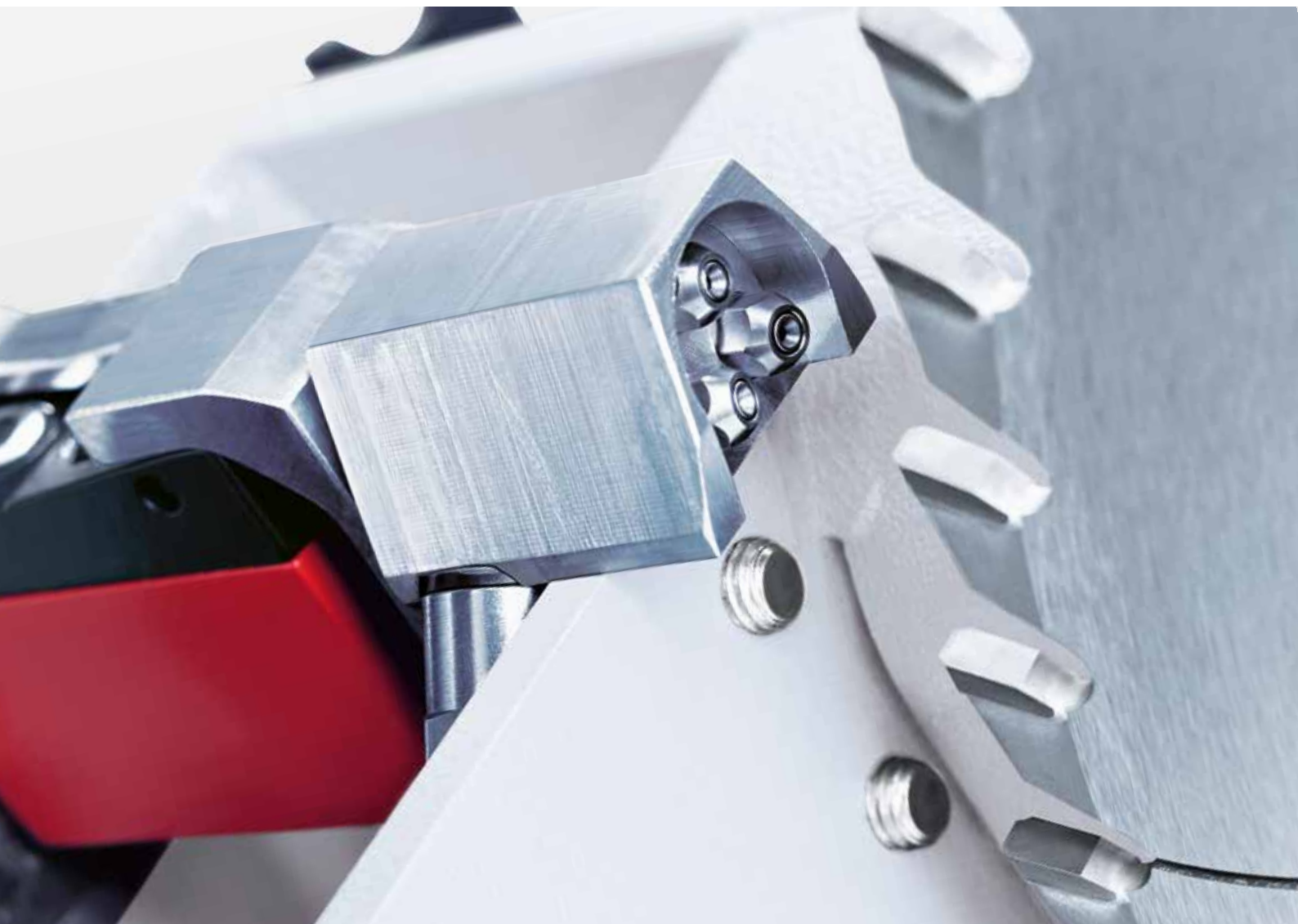
Always a cool cut.

HE HOMAG

Our panel dividing saws

SAWTEQ B-200 plastics, SAWTEQ B-300 plastics,
SAWTEQ B-400 plastics, SAWTEQ B-500 plastics

YOUR SOLUTION





As versatile as your material

Our panel dividing saws for plastics can take on plastic materials of all kinds. Thanks to HOMAG's modular system, you can individually configure your saw to meet your specific production requirements – with the option of more, because the collective portfolio of the HOMAG Group allows individual machines to be easily linked. From storage system to saw and CNC processing – we will provide you with the perfect turnkey solution for your plastics processing needs.

YOUR SOLUTION

MORE AT HOMAG.COM



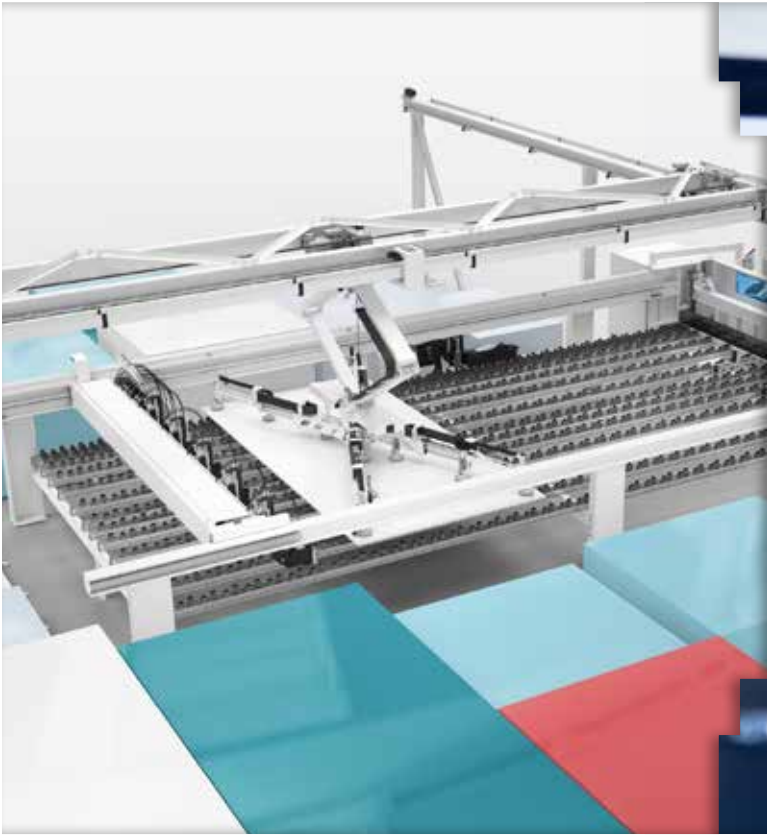
SAWTEQ plastics
at SK Scheidel

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From a single source – plastics processing with HOMAG

Storing, retrieving, cutting, trimming and polishing: it is a long road from the unprocessed panel to the finished product, with many processing stations on the way. This road can only be mastered efficiently with a production system that guarantees seamless processes – such as the complete solutions from HOMAG. We will provide you with a complete system comprising perfectly coordinated hardware, software and service. This can be achieved very efficiently because everything integrates smoothly. The result is perfection from a single source – for a new level of quality in plastics processing.



STORAGE



PANEL DIVIDING



CNC PROCESSING

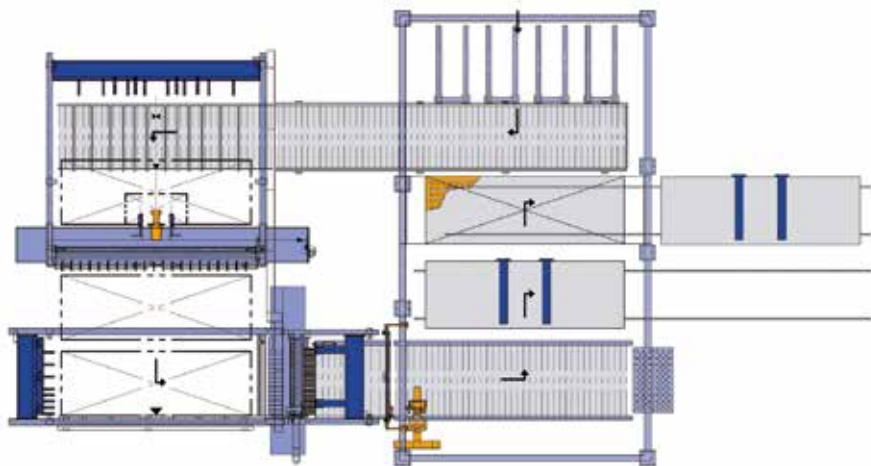
Your benefits

- Efficiency due to seamless processes – because all HOMAG machines harmonize perfectly with each other
- Superior service and reliability thanks to HOMAG's worldwide service network and fast online remote maintenance via TeleServiceNet for all machines
- Harmonized complete system encompassing processing machines, software and service
- Everything from a single source – with a dedicated contact for all questions pertaining to plastics processing

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

Custom solutions – systems and production lines

As world market leader in horizontal panel dividing technology, HOMAG provides custom system solutions. The options range from small systems with a panel throughput of 3 m³ per hour up to large systems for more than 100 m³ per hour. In addition there are storage, feeding and destacking solutions. Our aim is to design an efficient and lean production system for you – as in the following examples.



More power for SIMONA

The initial situation:

- Ergonomic handling of large panels weighing up to 1.6 t was not possible with the conventional solution. This resulted in inaccurate cuts and capacity bottlenecks
- Panel materials: PE and PP
- Panel size max.: 6,200 x 2,100 mm
- Panel thickness max.: 160 mm

The solution – HOMAG designs a saw that meets all the requirements:

- Automatic panel feeding and destacking
- HOMAG angular saw unit with vacuum feeding system
- Automatic measurement of part thickness



Streamlined processes for SK Scheidel

The initial situation:

SK Scheidel Kunststoffe und Glas GmbH in Villingendorf deals in plastic and glass products prefabricated to customer specifications. Growing demand eventually led to bottlenecks: the vertical saw for HPL panels and the manually operated HOMAG saw could no longer cope. The diversity of materials and the handling involved regularly caused hold-ups.

The solution:

SK Scheidel installed a saw-storage combination from HOMAG comprising a SAWTEQ B-300 plastics saw and a STORETEQ S-500 storage unit. The HOMAG system comes with advance removal positions and so can automatically prepare overnight the material required the next day. During the day the saw can then work without interruption. Seamless, material-friendly processes are guaranteed. The SAWTEQ B-300 plastics, with its many optional features, also plays its part in this. The saw is equipped with a feed-stacking table, the “Soft Touch” package for sensitive materials, the technologies of the “thin panels” package and the CADmatic option “material-dependent parameters”. A great deal of time and material is saved by optimization using HOMAG’s Cut Rite software and by software-controlled offcuts handling.

- Benefits of the saw-storage combination for SK Scheidel**
- Considerably less forklift truck traffic
 - Material-friendly transport
 - Complete overview of stock at all times
 - No interruptions; the saw runs all day
 - No more bottlenecks; capacity can be increased as needed
 - Clean, tidy and ergonomic operation
 - No damage to material, high quality
 - 20 % savings in material as a result of less waste and optimized offcuts handling

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SAWTEQ plastics
at SK Scheidel

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

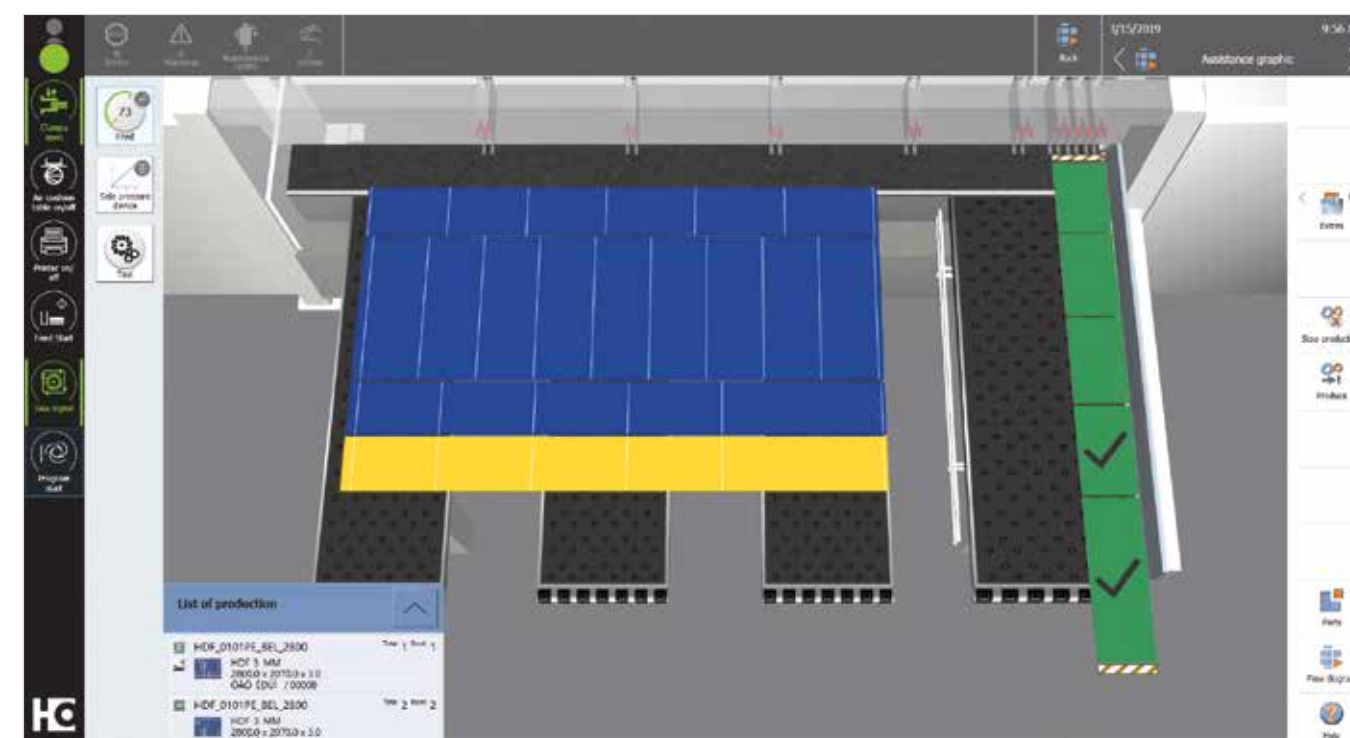
What's different? The software!

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.



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. It provides a vast range of functions and is easy to use thanks to its 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 controller 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 (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 widescreen monitor with multi-touch display (21" for SAWTEQ B-200 plastics)

Find out more in the "CADmatic" brochure.

The 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.



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



Clearer structure
The structure of the powerTouch2 screen is even clearer. You only see the information that is relevant for you. The important points at a glance – but you still have all the details. All in a fresh, attractive design.



Even faster
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 and a pop-up keyboard that can be kept open, and Windows-like functions, such as the option of selecting common actions directly via the start button.



More comfortable
We have also improved the traffic light dialog and the "Start" menu. When you press and hold the program icon, not only are the possible actions displayed, you can also access and activate them directly. Operation is therefore immediate and you do not lose any time opening applications. What's more, illustrations and additional information can also be displayed for the applications, instead of simple program icons. This also provides more transparency and avoids unnecessary navigation into applications.



More intuitive
Operating the machine is child's play. Many of the functions are similar to those of a smartphone or tablet and will therefore be familiar to you. Even beginners will feel immediately at ease and will soon be able to control the machine comfortably.

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 new HOMAG saws for plastics are now 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 does locally installed optimization software and can therefore swiftly provide the user with multiple variants of an optimization result.

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 towards both the trade and industry. Would you, for example, occasionally like to optimize cutting patterns without having to buy, install and maintain a software solution? Then intelliDivide is just what you need. You can use intelliDivide on demand, as a “software as a service”.

However, intelliDivide is also very interesting for large companies. Why? Because via the cloud you can optimize your cutting patterns extremely quickly, intelligently and precisely in line with your needs with the help of a powerful calculation engine.

All SAWTEQ plastics saws are tapio-ready, which means that intelliDivide recognizes the machine configuration of your saw automatically and can take it into account for every optimization in the cloud. This pays off every time in the case of high material throughput.



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.

- Optimized project control
- Efficient cutting processes
- Full control of costs
- Faster calculations

Find out more in the “Cut Rite” brochure.

CADplan

As an alternative to the comprehensive Cut Rite optimization software, CADplan, an add-on module for CADmatic, can also be used to perform small optimization jobs directly at the saw.

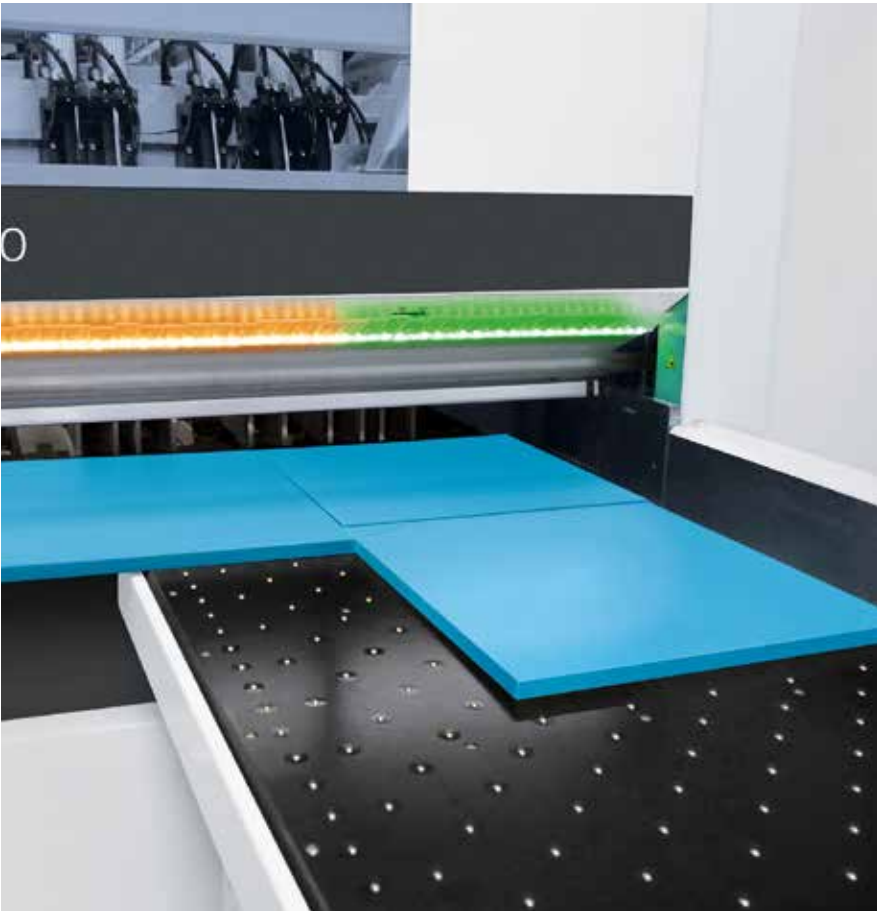
Optional feature: intelliGuide – innovative smart operator guidance

intelliGuide is the first intelligent assistance system in the history of panel dividing technology. The “basic” version reliably and efficiently guides the machine operator through the cutting process by means of LED signals. A fast and intuitive way of working.



The basis: CADmatic 5

intelliGuide is the result of a long period of technical evolution. It all started with the CADmatic saw control system: a piece of software that has since become indispensable in the industry. 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 operators the next step they have to perform. Compared to the previous process graphic that showed all the work steps of the saw (and can still be called up if required), this new graphic represents a 180-degree change in perspective!



intelliGuide basic: 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

General benefits of intelliGuide

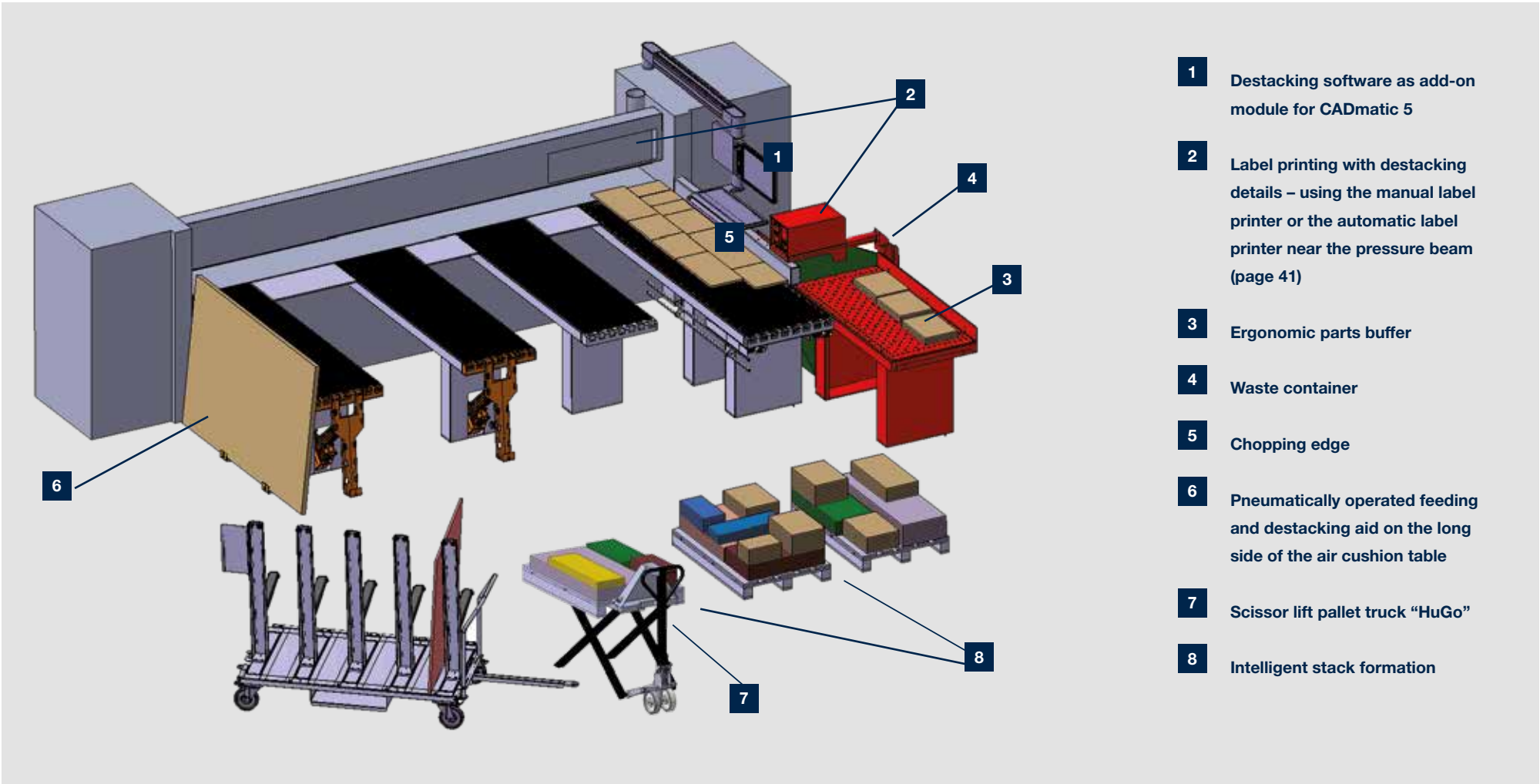
- Intuitive machine operation
- Systematic means of avoiding errors
- Fast processes: operator and saw work in tandem and do not slow each other down
- The operator rarely needs to look at the monitor and so can concentrate on processing the cutting pattern
- Fluid, ergonomic processes for efficient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

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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 41)
- 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

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

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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 option is available in the versions lite and practive. In both versions, the individual 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 of the practive destacking module: not only do operators see which part they need to stack on which pallet, they also see the exact position on the pallet where they are to place the part.

This ensures intelligent, stable stack formation. Furthermore, the practive destacking module allows the program sequence and the destacking strategy to be controlled more finely 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.



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 working height.



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Pallet truck “HuGo”

Parts buffer with swiveling label printer

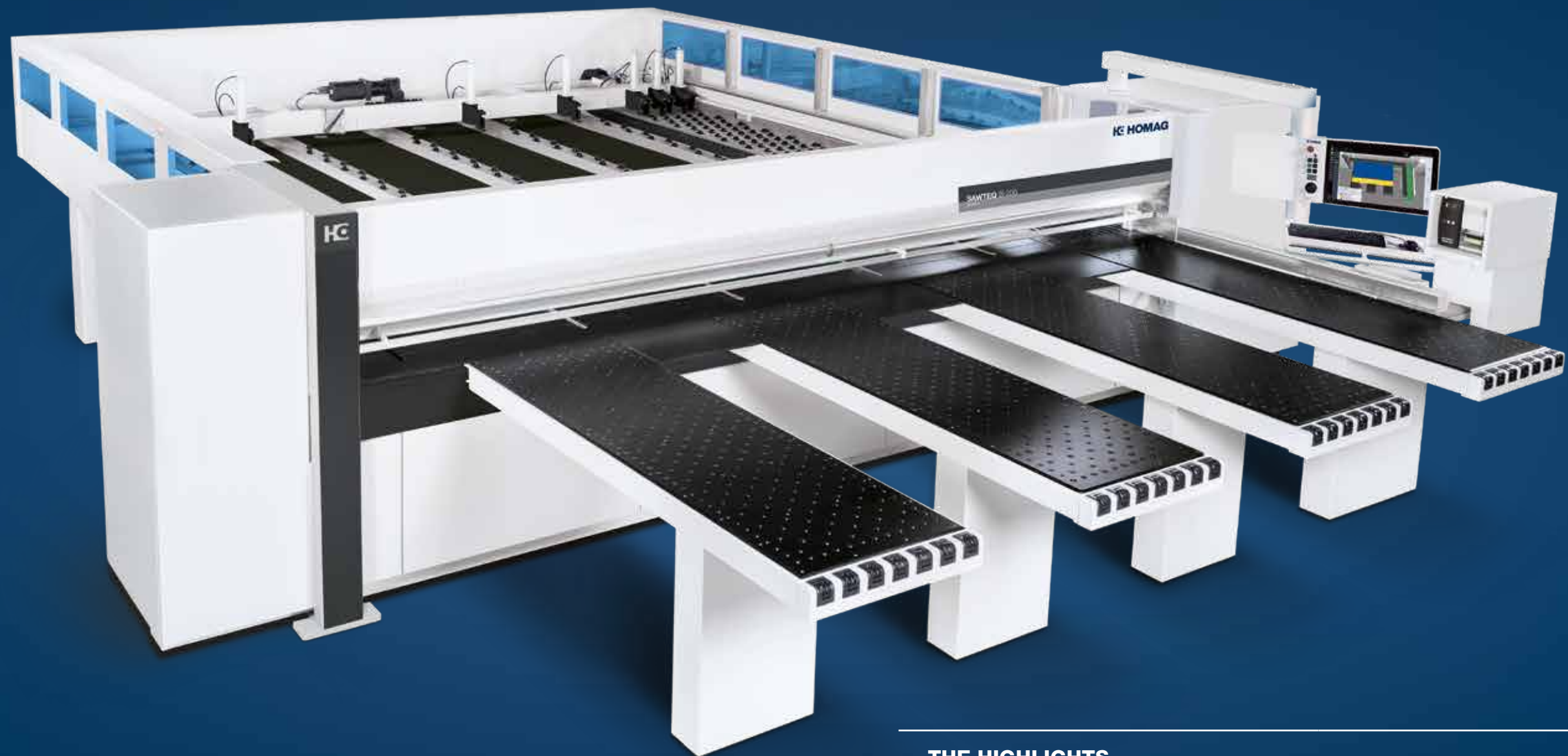
The parts buffer with swiveling label printer increases the efficiency of processes and optimizes handling.

- 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 in itself is 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



SAWTEQ B-200 plastics – fast and compact

The SAWTEQ B-200 plastics is small, powerful and affordable. Its short cutting cycles, compact machine dimensions and excellent quality make sure of it. In other words, the SAWTEQ B-200 plastics is the ideal choice for cutting smaller batches quickly.



THE HIGHLIGHTS

Precise

- Saw carriage and program fence driven by rack and pinion systems
- Manual pressure regulation for clamps and pressure beam
- CADmatic 5 with 3D flow diagram

Fast

Short cutting cycles due to high saw carriage speed

Compact

High performance coupled with compact machine dimensions

SAWTEQ B-200 plastics – standard features

The SAWTEQ B-200 plastics is equipped as standard with state-of-the-art high-tech systems which make your work even more efficient. The results speak for themselves!

Material-dependent parameters

When processing many different materials, the saw needs readjusting each time the material is changed. This increases setup times. The CADmatic option “material-dependent parameters” significantly reduces the time required for adjustments.

You only need to enter the parameter settings for each material once. These settings may include, for example, settings for the travel of the side pressure device, for the saw blade projection or for the point of immersion for postforming material.

When you change materials, you then only have to retrieve the corresponding profile – and your HOMAG saw is automatically adjusted.

Reverse cutting: perfect for thin material

Reverse cutting allows thin materials, for example PETG, to be processed to an even higher standard. If required, the saw cuts away from the right-angled fence, i.e. contrary to the usual direction of processing. For virtually chip-free cuts.



Rugged pressure beam for first-class cut quality

- Large-area pressure zone directly at the cutting line reduces material vibrations to a minimum
- Rack and pinion ensure the necessary parallel adjustment
- The result is accurate cuts, for books too
- Dust extraction is optimized by a second extraction connection on the pressure beam

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



Patented: central side pressure device

- Integrated directly in 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

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Central side pressure device

Developed for plastic materials

Special materials require special features. HOMAG saws for plastics include as standard:

- Frequency-controlled main saw motor
- Special saw blades
- Narrow-finger clamps
- Highly efficient dust extraction system specifically designed for plastic materials

SAWTEQ B-200 plastics – standard features



Narrow-finger clamps

- Narrow-finger clamps require only very narrow grooves in the table, thus increasing the supporting table area to the maximum
- Virtually chip-free cutting of even very thin panel material



Manual pressure control

The SAWTEQ B-200 plastics comes fully prepared for cutting pressure-sensitive panels. You can adjust the pressure of the clamps and the pressure beam to suit your particular panel material simply by using the two manual controls in the front operating area.



Saw carriage

The saw carriage is a robust steel construction with main saw and central side pressure device. A scoring saw is available as an option.

- Infinitely variable saw carriage speed
- High precision, low noise, maintenance free
- Fast saw blade change thanks to Power-Loc
- Saw carriage speed up to 120 m/min (as an option)

Special dust extraction solutions in the saw carriage area

Where plastic materials are processed, conventional dust extraction systems quickly reach their limits. One reason for this are the extremely long shavings, reminiscent of lametta tinsel. The SAWTEQ B-200 plastics handles them with ease – with specially designed dust extraction solutions.

- Optimized sealing lip in the chip channel
- U-shaped scraper in the chip channel to remove any build-up of material
- Dust extraction speed increased from the usual 26 m/sec to 30-32 m/sec
- Light sensor with blower unit



Power-Loc

This fast clamping system is very easy to use and speeds up blade changes on both main and scoring saw.

- Automatic adjustment of scoring saw blade
- Scoring saw available as an option

SAWTEQ B-200 plastics – optional features

You face special challenges in your manufacturing operations? We have the right technologies for you, in the form of optional features. You can enhance your SAWTEQ B-200 plastics saw to meet your specific requirements.



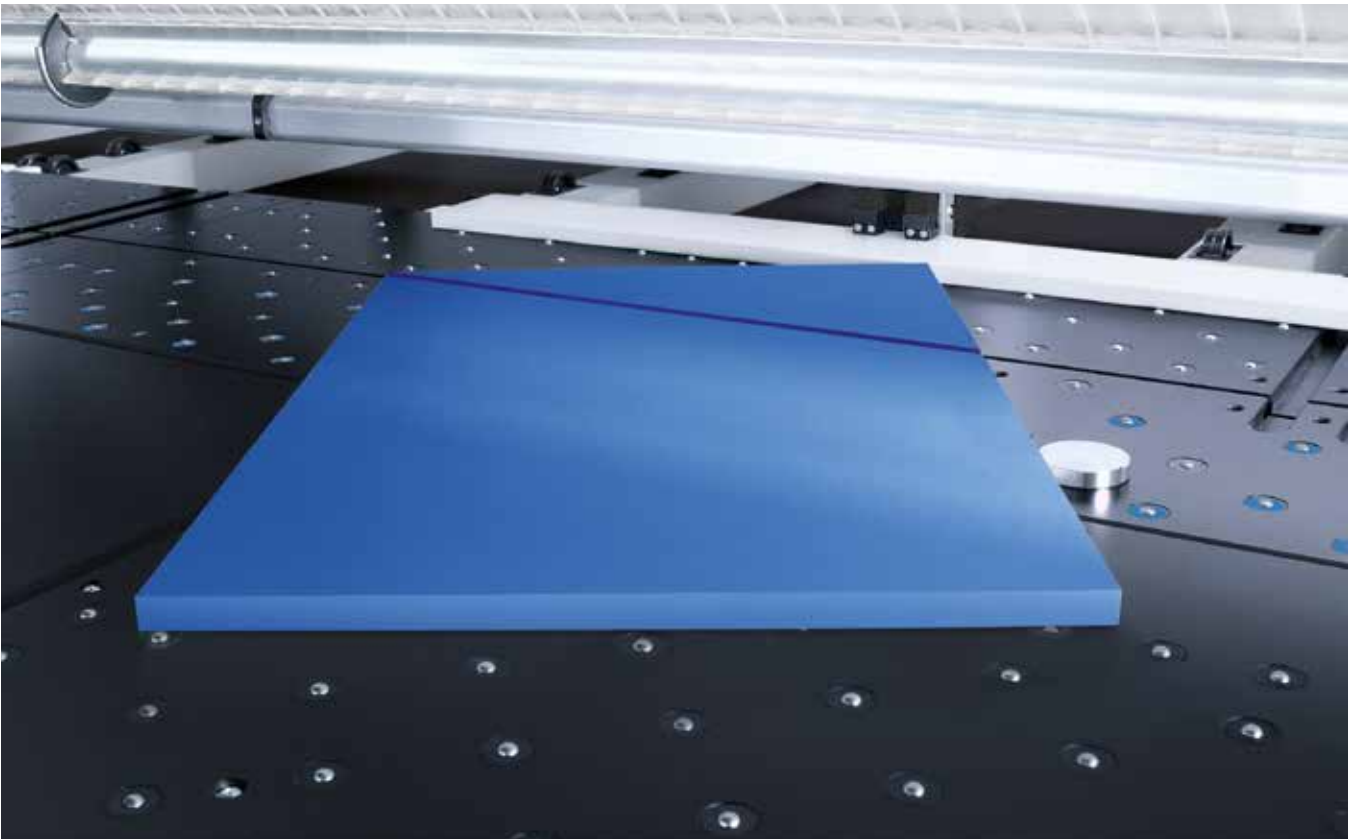
Machine table equipped with air jets throughout

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



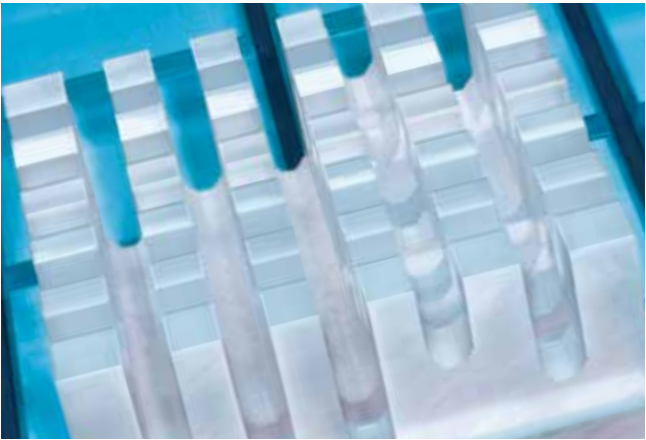
Additional phenolic resin overlay

Facilitates processing of extremely narrow strips and very small parts.



Manual angle cuts

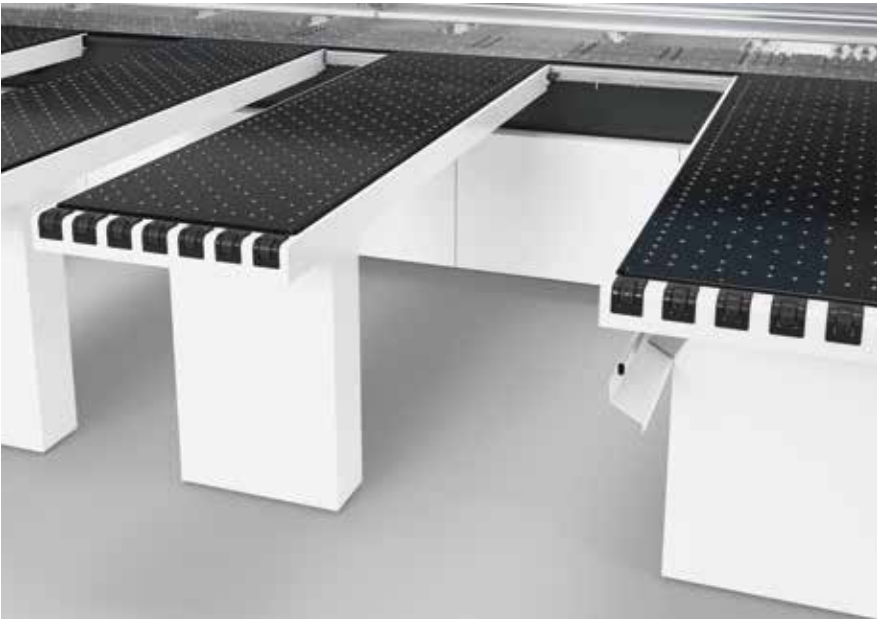
The angle cut device allows you to control angle cuts using the CADmatic control software.



Cutting and grooving

Complete grooving directly on the panel dividing saw – that saves time. This option is a good choice, for example, for manufacturing facade elements. For instance, a composite panel with grooves can easily be bent or folded.

SAWTEQ B-200 plastics – optional features



Movable air cushion table

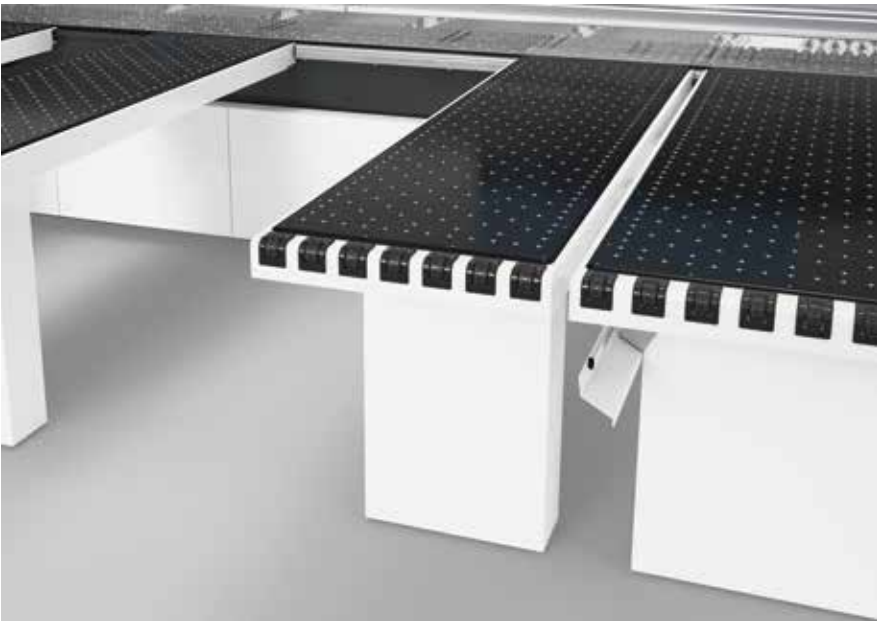
The air cushion table is easily moved along linear guides and offers you a mobile work surface and storage area. It allows you to move small panels, large panels or books of panels more ergonomically and with less risk of damage.

NEW: fan strength for the air cushion tables can be individually adjusted.

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Air cushion tables



Additional clamps

For a better grip. So that your HOMAG saw can securely grip even especially large, thin or smooth panels.

Gentle material handling

Additional rollers on the front edge of the air cushion table ensure particularly gentle positioning of material and greater operating comfort.

Multiple cuts

After each cutting cycle, the saw blade is raised by an adjustable parameter value until the book of panels has been completely cut.

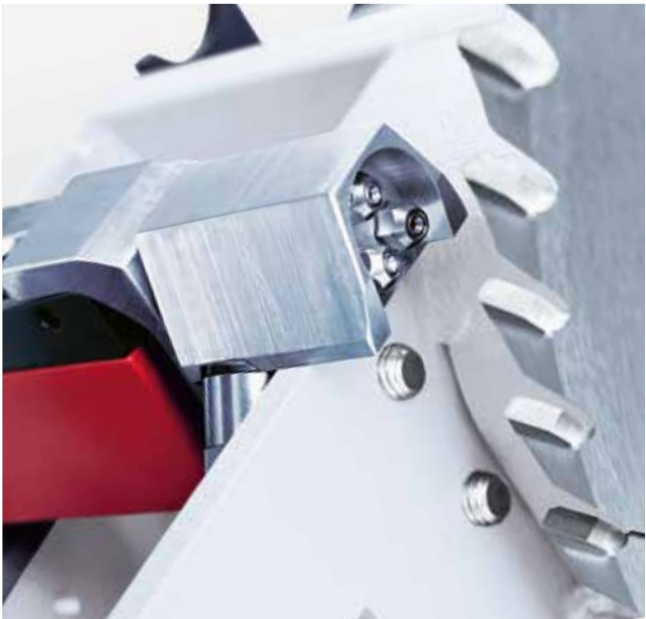
Scoring saw

Not every type of material can be cut without having previously been scored. That's why the SAWTEQ B-200 plastics can optionally be equipped with a scoring saw.



Label printer

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 in your production flow.



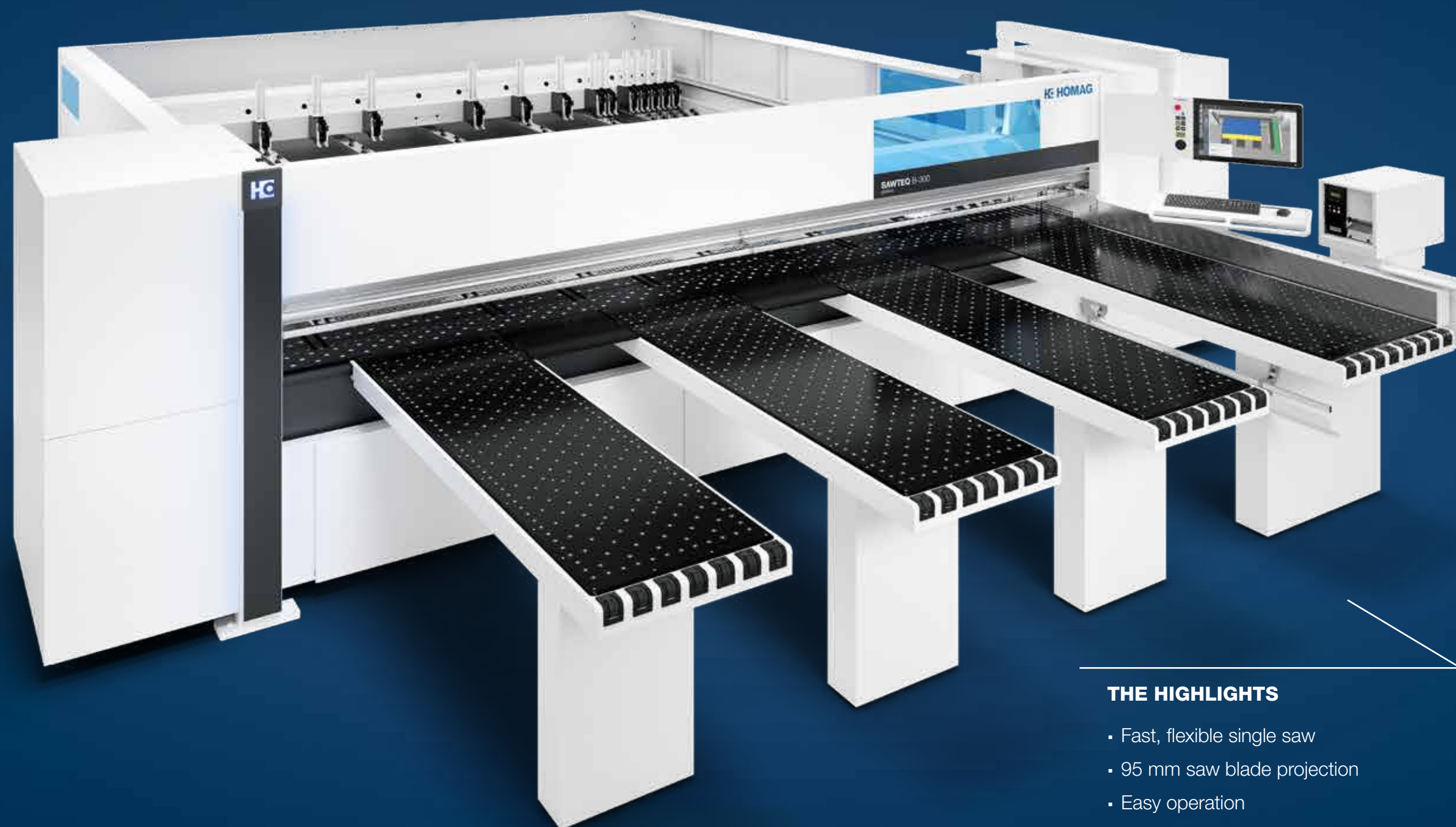
Always a cool cut

Saw carriage with integrated minimal spray device for the main saw blade:

- Two nozzles spray the tooth flanks, one nozzle sprays the tooth itself
- Spraying fluid leaves no residue
- Easy adjustment of the spray volume at the pressure tank. Adjustment of the nozzles is not required
- Spraying intervals can be set via the CADmatic control

SAWTEQ B-300 plastics – precise and profitable

Proven, robust and reliable: these are the qualities that have made the SAWTEQ B-300 plastics saw one of the most popular in the HOMAG plastics range. Its 95 mm saw blade projection and high processing speed allow it to master everyday operation and high demands with ease.

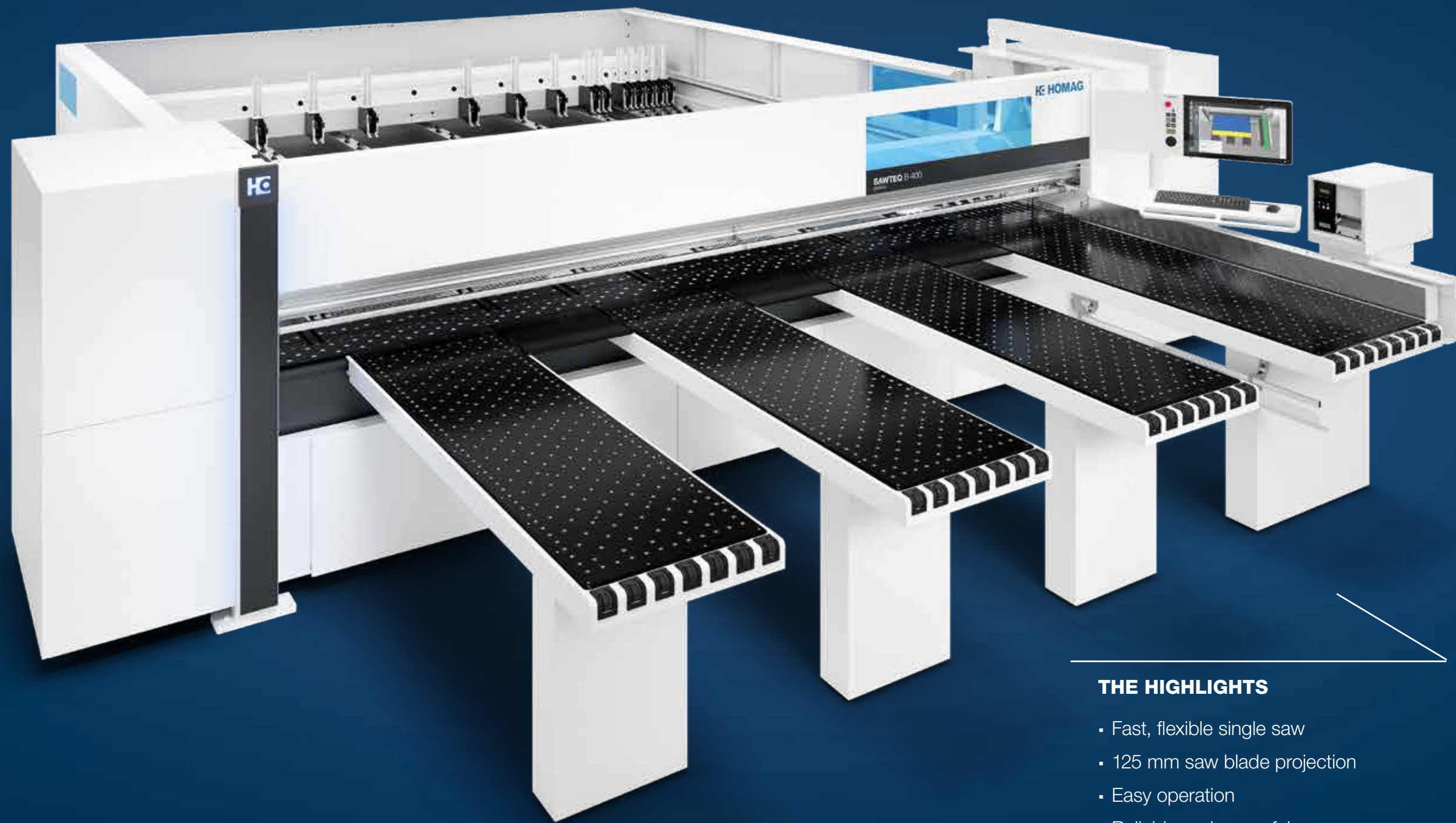


THE HIGHLIGHTS

- Fast, flexible single saw
- 95 mm saw blade projection
- Easy operation
- Reliable and powerful
- Available in three cutting lengths (3,200/3,800/4,300 mm)

SAWTEQ B-400 plastics – increasing throughput by cutting books

Similarly to the SAWTEQ B-300 plastics, this plastics saw is also versatile, powerful and flexible. So what is the main difference? The SAWTEQ B-400 plastics boasts a significantly higher saw blade projection of 125 mm, allowing it to achieve a noticeable increase in throughput by cutting panels in books.



THE HIGHLIGHTS

- Fast, flexible single saw
- 125 mm saw blade projection
- Easy operation
- Reliable and powerful
- Available in three cutting lengths (3,200/3,800/4,300 mm)

SAWTEQ B-300/B-400 plastics – standard features

You think ahead. So does HOMAG. This is clearly reflected in the standard features. You benefit from state-of-the art, high-precision technology.



Rugged pressure beam for first-class cut quality

- Large-area pressure zone directly at the cutting line reduces material vibrations to a minimum
- Dust extraction is optimized by a second extraction connection on the pressure beam
- Rack and pinion ensure the necessary parallel adjustment
- The result is accurate cuts, for books too

Program fence for precision and dimensional accuracy

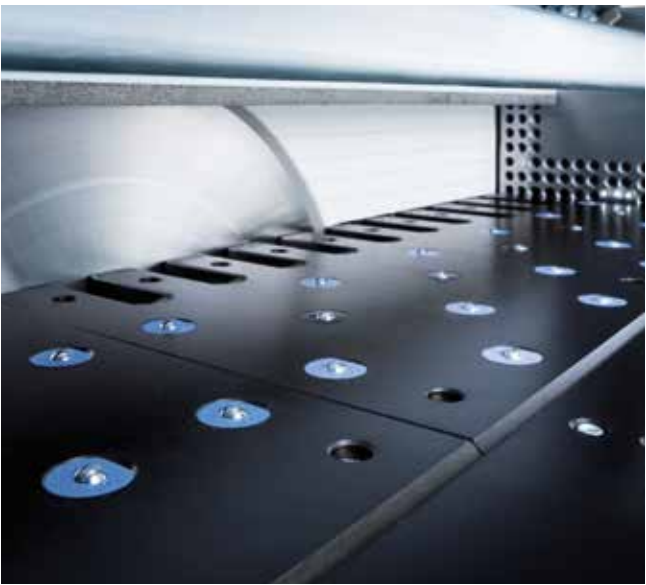
- Resistant to torsion and bending
- Electronically controlled
- Precision guidance on H-girder
- Electromagnetic measuring system guarantees a positioning accuracy of +/- 0.1 mm per meter
- Measuring system involves no wear and no maintenance

Material-dependent parameters

When processing many different materials, the saw needs readjusting each time the material is changed. This increases setup times. The CADmatic option "material-dependent parameters" significantly reduces the time required for adjustments.

You only need to enter the parameter settings for each material once. These settings may include, for example, settings for the travel of the side pressure device, for the saw blade projection or for the point of immersion for postforming material.

When you change materials, you then only have to retrieve the corresponding profile – and your HOMAG saw is automatically adjusted.

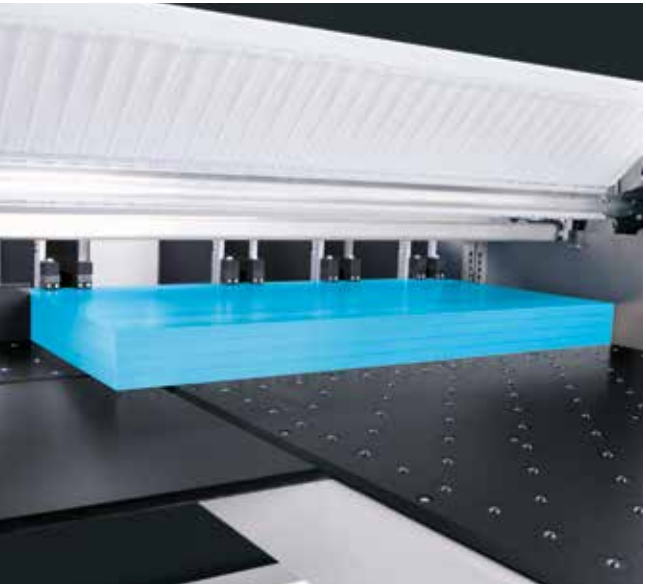


Machine table equipped with air jets throughout

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

Patented dustEx technology

dustEx guides dust and chips on a direct route towards the dust extraction system. How does it work? By means of combination air jets and optimized dust 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 (page 43).



Patented: central side pressure device

- Integrated directly in 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

Reverse cutting: perfect for thin material

Thin materials, for example PETG, which tend to tear when cut in the conventional way, can be better processed with reverse cutting. If required, the saw cuts away from the right-angled fence, i.e. contrary to the usual direction of processing. For virtually chip-free cuts.

MORE AT HOMAG.COM



dustEx



Central side pressure device

SAWTEQ B-300/B-400 plastics – standard features

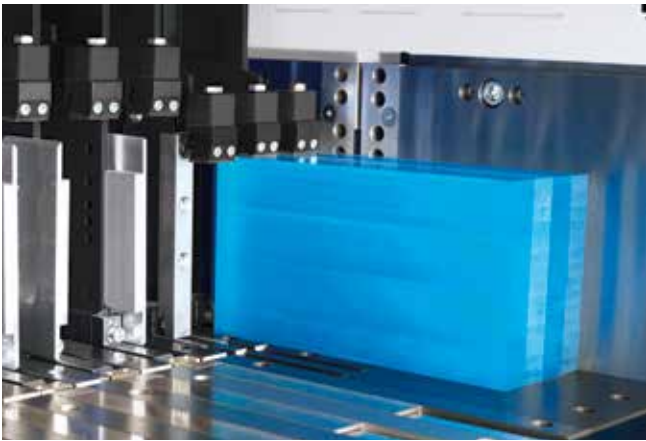


Narrow-finger clamps

The robust clamps now position the material even more gently and precisely at the cutting line. This is achieved by not fitting the lower fingers until the clamps, together with the pressure beam, have been cut in position at the cutting line. The clamps require only very narrow grooves in the table, thus increasing the supporting table area to the maximum.

The benefits:

- Developed specifically for processing plastics
- Virtually chip-free cutting of even very thin panel material
- The material is held more accurately and handled more gently
- Designed for continuous, multi-shift operation



Clamps for narrow parts

Make it possible to clamp narrow strips – from a width of just 20 mm.

Special dust extraction solutions in the saw carriage area

Where plastic materials are processed, conventional dust extraction systems quickly reach their limits. One reason for this are the extremely long shavings, reminiscent of lametta tinsel. The SAWTEQ B-300/B-400 plastics saws handle them with ease – with specially designed dust extraction solutions.

- NEW: modified position of the chip deflector in models without optional scoring saw. Creates more space for long plastic shavings and also improves dust extraction
- Optimized sealing lip in the chip channel
- U-shaped scraper in the chip channel to remove any build-up of material
- Dust extraction speed increased from the usual 26 m/sec to 30-32 m/sec
- NEW: sensor-based negative pressure monitoring in the chip channel – prevents chip accumulation and protects the machine by ensuring optimum extraction values
- Sealed energy chain around the saw carriage – prevents hard plastic cuttings from entering and protects the system
- Special guide rollers ensure contact of the wear-resistant chip channel sealing lip for a closed transition between saw carriage and chip channel
- Active dust extraction also via the right-angled fence
- Light sensor with blower unit (optional, see “saw carriage dynamics package” on page 40)



Saw carriage

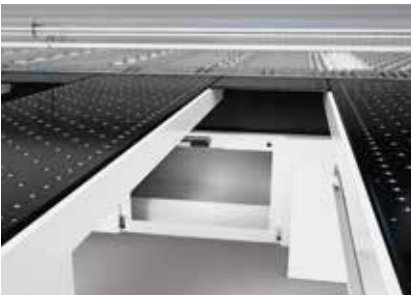
The saw carriage is a robust steel construction with main saw and central side pressure device. A scoring saw is available as an option.

- Infinitely variable saw carriage speed
- High precision, low noise, maintenance free
- Fast saw blade change thanks to Power-Loc
- Saw carriage speed up to 150 m/min (as an option)
- Frequency-controlled main saw motor

Power-Loc

This easy-to-use, fast clamping system speeds up blade changes on both main and scoring saw.

- Automatic adjustment of scoring saw blade
- Scoring saw available as an option



Handy cleaning flaps

Quick and convenient: flaps provide easy access to the area under the saw carriage, allowing easy removal or vacuuming of cutting waste.

Air cushion tables with manual compressed air control

Fan strength for the air cushion tables can be individually adjusted.

SAWTEQ B-300/B-400 plastics – optional features

HOMAG offers a wide range of optional features for the SAWTEQ B-300/ B-400 plastics. This enables you to match the machine exactly to your manufacturing requirements and thus make full use of its potential.



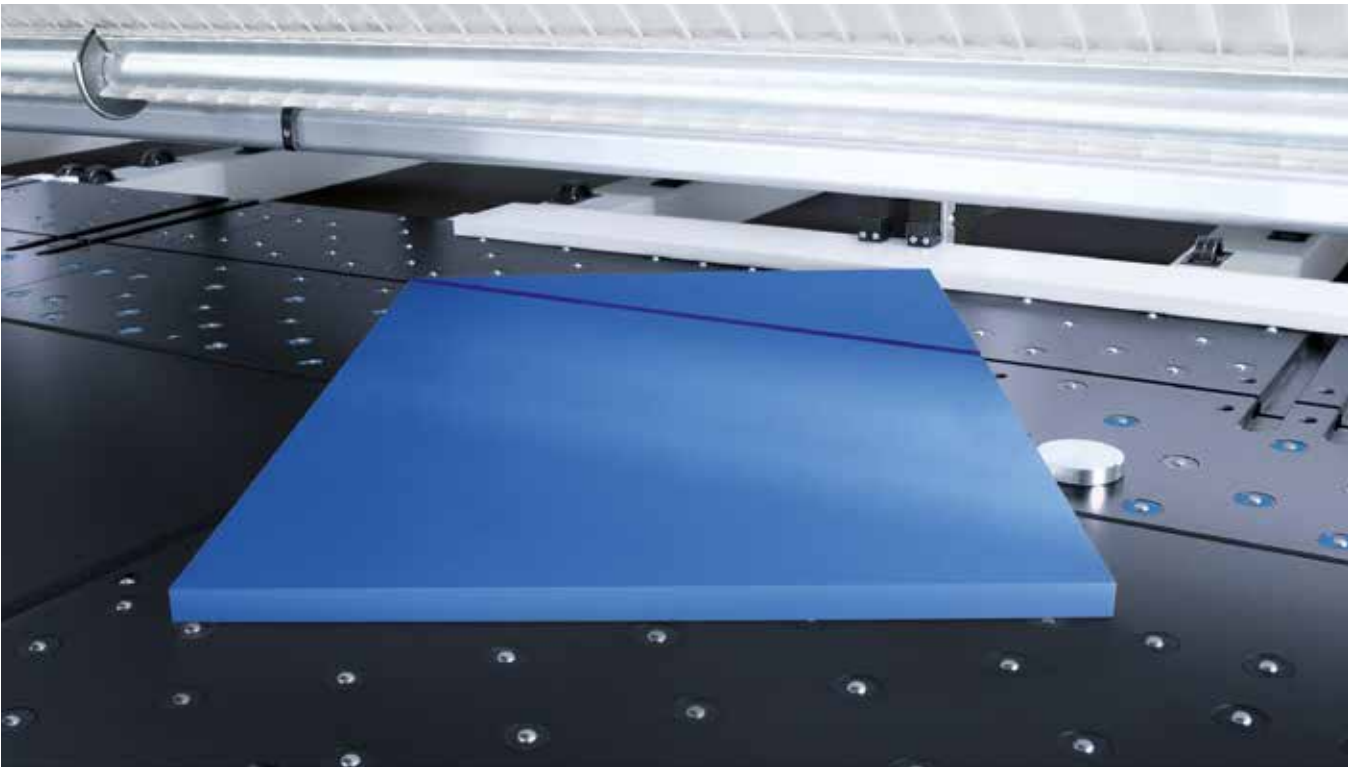
Special rollers in the rear machine area

Special rollers in the rear machine area in combination with narrow part clamps make it possible to cut up to six 20 mm wide strips simultaneously. The shape of the rollers ensures a stable supporting surface, prevents the narrow strips from tilting and makes for reliable cutting processes.



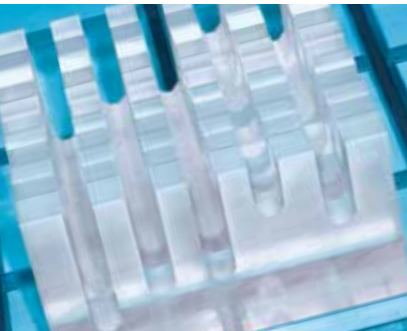
Cutting gap closers

The cutting gap closers close the cutting gap immediately after the cut so that narrow waste strips do not fall through the cutting gap into the saw body or even get jammed in the cutting gap. For uninterrupted operation.



Manual angle cuts

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



Solutions for surfaces susceptible to scratches

Anyone trying to avoid damaging scratch-prone surfaces during the production process, and thus minimize material losses, needs an appropriately equipped panel saw. HOMAG offers numerous solutions for this – a number of which are available in economical packages.

Cutting and grooving

Complete grooving directly on the panel dividing saw – that saves time. This option is a good choice, for example, for manufacturing facade elements. For instance, a composite panel with grooves can easily be bent or folded.

Soft Touch package 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 bundled the technologies to deal with these materials in the Soft Touch package.

Additional clamps

For a better grip. So that your HOMAG saw can also securely clamp even especially large, thin, narrow or smooth materials.

SAWTEQ B-300/B-400 plastics – optional features



Dynamics package “saw carriage”

The dynamics package “saw carriage” gives you more power for production.

- 150 m/min saw carriage speed instead of the standard 130 m/min
- Spring-pressured running wheels
- Blower unit for the light sensor

Multiple cuts

After each cutting cycle, the saw blade is raised by an adjustable parameter value until the book of panels has been completely cut.

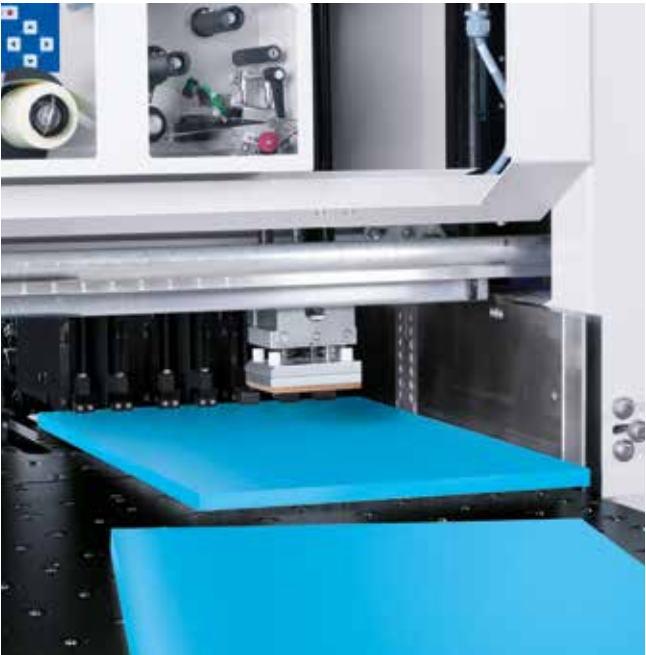
Scoring saw

Not every type of material can be cut without having previously been scored. That's why the SAWTEQ B-300/B-400 plastics saws can optionally be equipped with a scoring saw.

- Always a cool cut**

Saw carriage with integrated minimal spray device for the main saw blade:

 - Two nozzles spray the tooth flanks, one nozzle sprays the tooth itself
 - Spraying fluid leaves no residue
 - Easy adjustment of the spray volume at the pressure tank. Adjustment of the nozzles is not required
 - Spraying intervals can be set via the CADmatic control



- 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. 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



Label printer

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 in your production flow.



Swiveling label printer and parts buffer

The HOMAG parts buffer with swiveling label printer increases the efficiency of processes and optimizes handling. It provides an ergonomic buffering area for parts after cutting. The integrated printer allows the operator to work in a comfortable position and dispenses the right label for each part at the right time.

SAWTEQ B-300/B-400 plastics – optional features



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.



Tiltable 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



Dust-trap curtain on both sides

- Attached to the front and rear of the pressure beam. Dust-trap curtain only at the rear when combined with the label printer at the pressure beam (page 41)
- Protects operators from dust
- Improves dust extraction
- Ideal for dust cuts



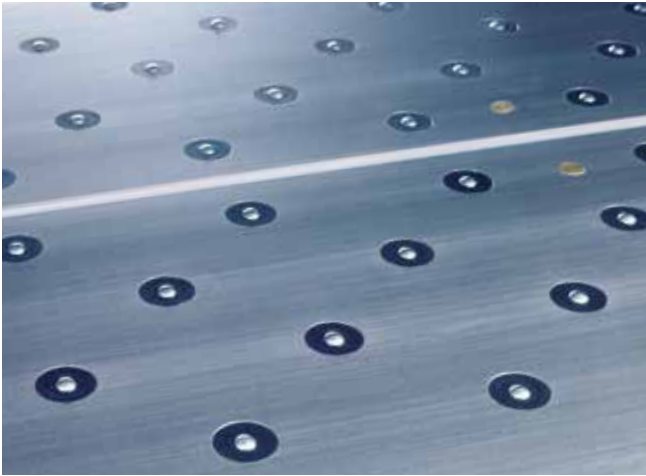
Automatic ejecting device

- 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



Additional start-stop button

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



Anodized aluminum machine bed plates

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

[MORE AT HOMAG.COM](#)



Air cushion tables

SAWTEQ B-500 plastics – big in processing plastics

Innovative technologies, heavy-duty design and tremendously fast processing speed with a minimum of noise make the SAWTEQ B-500 plastics the ultimate in processing plastics. It is ideal for companies that process a great deal of material in a short time, that focus on volume production or that cut larger-than-average panels.



SAWTEQ B-500 plastics. Illustration may show optional equipment.

THE HIGHLIGHTS

- Extremely rugged design for continuous, multi-shift operation
- Unique: mineral compound saw base – absorbs noise, reduces vibrations and resists deformation
- Cutting length over the entire width of up to 5,600 mm
- Wide range of optional features for tailored performance and operation

SAWTEQ B-500 plastics – standard features

The SAWTEQ B-500 plastics is at the forefront of progress. In its standard version, this high-performance saw boasts impressive state-of-the-art technologies and innovative solutions.



Rugged pressure beam for first-class cut quality

- Large-area pressure zone directly at the cutting line reduces material vibrations to a minimum
- Rack and pinion ensure the necessary parallel adjustment
- The result is accurate cuts, for books too
- Dust extraction is optimized by a second extraction connection on the pressure beam

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



Machine table equipped with air jets throughout

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

Patented dustEx technology

dustEx guides dust and chips on a direct route towards the dust extraction system. How does it work? By means of combination air jets and optimized dust 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 (page 55).

Innovative clip-in brushes

Brushes clipped inside the slots for the clamps seal the pressure beam and prevent dust from escaping:

- The brushes can be changed quickly and easily thanks to clip system
- Dust is extracted without any turbulence and via the shortest route – also through the right-angled fence

Micro-joint technology

The slots for optional clamps are securely sealed, but can be opened easily when needed. This further improves dust extraction.

MORE AT HOMAG.COM



dustEx

SAWTEQ B-500 plastics – standard features



Saw carriage

- 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 and infinitely variable positioning of the main saw blade by means of linear guide system with rocker arm
- Frequency-controlled main saw motor
- Motorized lift with electrically driven ball-screw spindle for raising the main saw blade (available as an option for even more speed)
- All main saw parameters can be saved
- Low-noise, maintenance-free main saw blade drive
- Spring-pressured running rollers (patented) – ensure perfect contact with the guides even after several years of use
- Easy-to-maintain design for minimal belt wear and simplified belt changes
- Just a few central and easily accessible lubrication points
- Optionally available: scoring saw



Power-Loc system

Making it quick and easy to change the saw blade.

Special dust extraction solutions in the saw carriage area

Where plastic materials are processed, conventional dust extraction systems quickly reach their limits. One reason for this are the extremely long shavings, reminiscent of lametta tinsel. The SAWTEQ B-500 plastics handles them with ease – with specially designed dust extraction solutions.

- Optimized sealing lip in the chip channel
- U-shaped scraper in the chip channel to remove any build-up of material
- Dust extraction speed increased from the usual 26 m/sec to 30-32 m/sec
- NEW: sensor-based negative pressure monitoring in the chip channel – prevents chip accumulation and protects the machine by ensuring optimum extraction values
- Sealed energy chain around the saw carriage – prevents hard plastic cuttings from entering and protects the system
- Special guide rollers ensure contact of the wear-resistant chip channel sealing lip for a closed transition between saw carriage and chip channel
- Active dust extraction also via the right-angled fence
- Light sensor with blower unit



Saw body made of SORB TECH

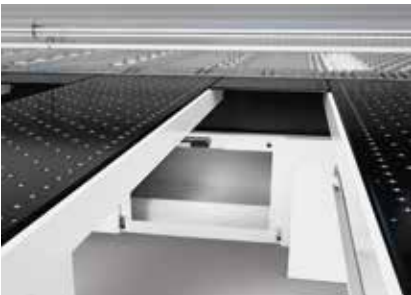
The faster a machine operates, the higher the susceptibility to vibration and the noise level become. This is why the saw body (machine base) of the SAWTEQ B-500 plastics is made of SORB TECH. This innovative construction material consists of hard stone grit in various sizes that is combined with bonding agents and special additives to form a casting compound specifically designed for the requirements.

The result: even after many millions of load changes, the saw body is extremely torsion resistant, stress free, quiet and stable, emitting only low levels of vibration.

- This enables the saw carriage and therefore the saw blades to run in an extremely precise manner
- Less wear and longer service lives – this reduces the operating costs
- Machine table at a comfortable working height
- The SAWTEQ B-500 plastics saw is much quieter than other saws thanks to SORB TECH

SORB TECH advantages over steel girder designs:

- 10 times better vibration dampening
- 20 % higher sound absorption
- 30 % longer saw blade life
- 40 % less primary energy needed for manufacturing



Handy cleaning flaps

Quick and convenient: flaps provide easy access to the area under the saw carriage, allowing easy removal or vacuuming of cutting waste.

Air cushion tables with manual compressed air control

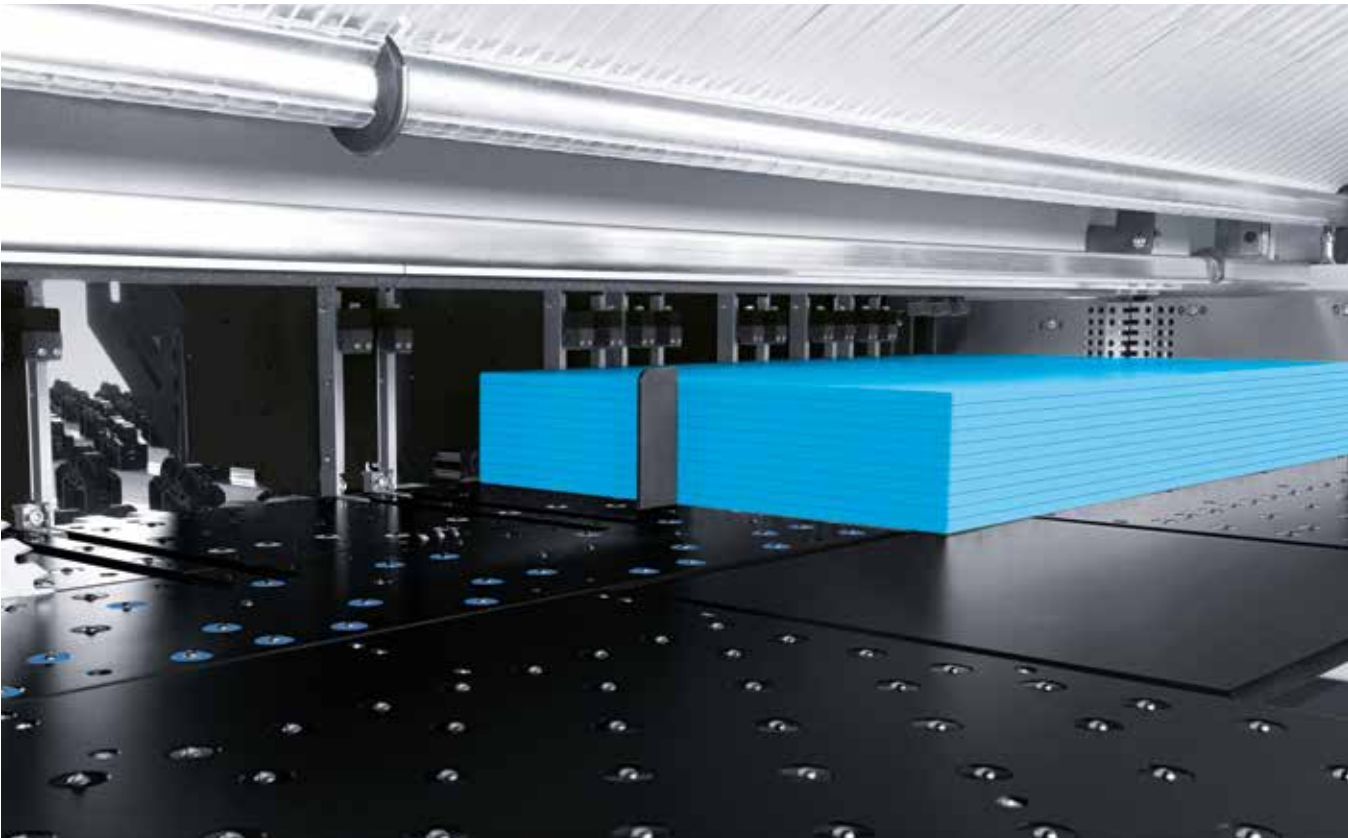
Fan strength for the air cushion tables can be individually adjusted.

MORE AT HOMAG.COM



Power-Loc

SAWTEQ B-500 plastics – standard features



Patented: central side pressure device

- Integrated directly in the saw carriage, which 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

Reverse cutting: perfect for thin material

Thin materials, for example PETG, which tend to tear when cut in the conventional way, can be better processed with reverse cutting. If required, the saw cuts away from the right-angled fence, i.e. contrary to the usual direction of processing. For virtually chip-free cuts.



Material-dependent parameters

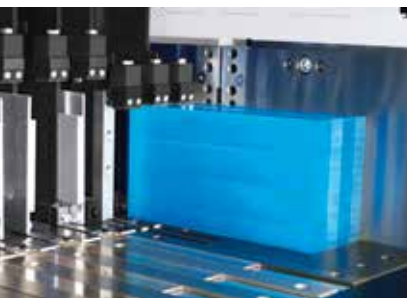
When processing many different materials, the saw needs readjusting each time the material is changed. This increases setup times. The CADmatic option “material-dependent parameters” significantly reduces the time required for adjustments.

You only need to enter the parameter settings for each material once. These settings may include, for example, settings for the travel of the side pressure device, for the saw blade projection or for the point of immersion for postforming material.

When you change materials, you then only have to retrieve the corresponding profile – and your HOMAG saw is automatically adjusted.

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 quick means of adjustment
- The contact pressure can be (manually) adjusted individually and irrespective of the book height for the material being processed
- 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
- Program-activated clamps prevent damage to panel edges (optional)
- Designed for continuous, multi-shift operation



Clamps for narrow parts

Make it possible to clamp narrow strips – from a width of just 20 mm.



Special rollers in the rear machine area

Special rollers in the rear machine area in combination with narrow part clamps make it possible to cut up to six 20 mm wide strips simultaneously. The shape of the rollers ensures a stable supporting surface, prevents the narrow strips from tilting and makes for reliable cutting processes.

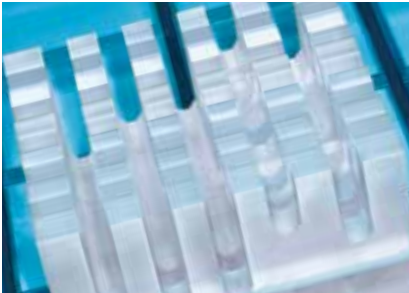
SAWTEQ B-500 plastics – optional features

The SAWTEQ B-500 plastics is every bit as versatile as challenges in daily operation are varied, so it can be customized to match any manufacturing process. So you get even more out of your HOMAG.



Solutions for surfaces susceptible to scratches

Anyone trying to avoid damaging scratch-prone surfaces during the production process, and thus minimize material losses, needs an appropriately equipped panel saw. HOMAG offers numerous solutions for this – a number of which are available in economical packages.



Cutting and grooving

Complete grooving directly on the panel dividing saw – that saves time. This option is a good choice, for example, for manufacturing facade elements. For instance, a composite panel with grooves can easily be bent or folded.

Additional clamps

For a better grip. So that your HOMAG saw can also securely clamp even especially large, thin, narrow or smooth materials.

Cutting gap closers

The cutting gap closers close the cutting gap immediately after the cut so that narrow waste strips do not fall through the cutting gap into the saw body or even get jammed in the cutting gap. For uninterrupted operation.

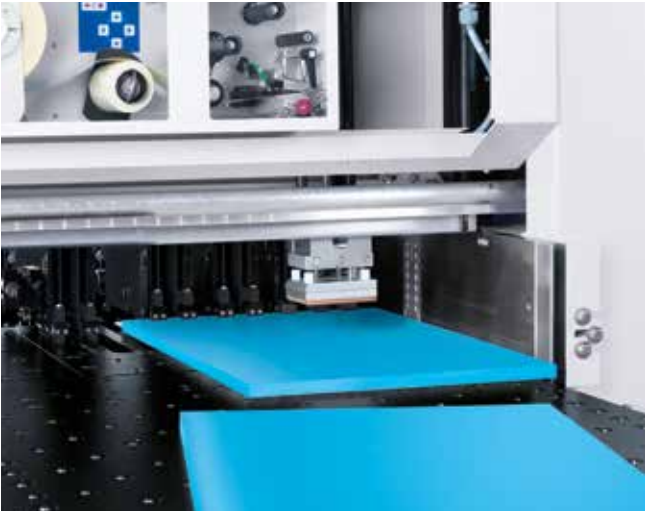
Multiple cuts

After each cutting cycle, the saw blade is raised by an adjustable parameter value until the book of panels has been completely cut.

Scoring saw

Not every type of material can be cut without having previously been scored. That's why the SAWTEQ B-500 plastics can optionally be equipped with a scoring saw.

- Optionally with motor-driven lift
- You can save the scoring saw parameters. This means that the pair of saw blades can be refitted after sharpening without requiring readjustment



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. 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

Always a cool cut

Saw carriage with integrated minimal spray device for the main saw blade:

- Two nozzles spray the tooth flanks, one nozzle sprays the tooth itself
- Spraying fluid leaves no residue
- Easy adjustment of the spray volume at the pressure tank. Adjustment of the nozzles is not required
- Spraying intervals can be set via the CADmatic control



Label printer

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 in your production flow.

SAWTEQ B-500 plastics – optional features



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



Dust-trap curtain on both sides

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



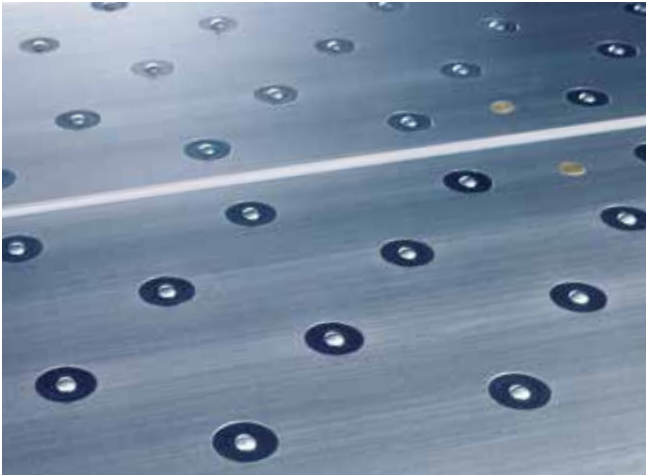
Automatic ejecting device

- 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



Additional start-stop button

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



Anodized aluminum machine bed plates

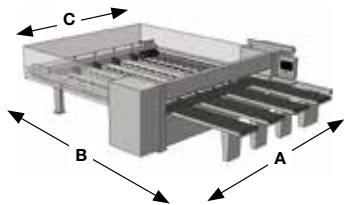
The special coating ensures exceptionally gentle material handling. Ideal for materials with highly sensitive surfaces.

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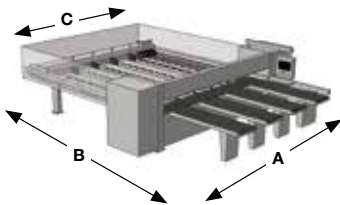


Air cushion tables

TECHNICAL DATA*		
Model	B-200 plastics	B-300 plastics
Saw blade projection (mm)	80	95
Cutting length (mm)	3,200/4,300	3,200/3,800/4,300
Program fence speed (m/min) **	80	90
Saw carriage speed (m/min)	0.1-80 (optional: 120)	0.1-130 (optional: 150)
Main saw motor (kW)	18	24
Main saw blade (mm)	350 x 4.4 x 60	380 x 4.4 x 60
Operating software	CADmatic 5	CADmatic 5
Monitor	21" TFT flat touchscreen monitor	24" TFT flat touchscreen monitor
Dust extraction system (m³/h, m/sec) ****	From 4,000; 32	From 6,000; 32
Average total air requirement (NL/min) ****	approx. 150	approx. 120
Operating pressure(bar)	6	6

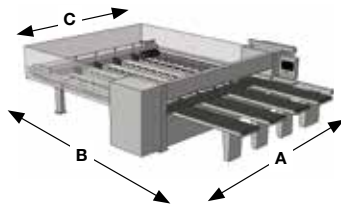


MACHINE DIMENSIONS***			
B-200 plastics	A (mm)	B (mm)	C (mm)
B-200/32/32	5,307	6,037	3,587
B-200/43/32	6,457	6,037	4,737
B-200/43/43	6,457	7,187	4,737

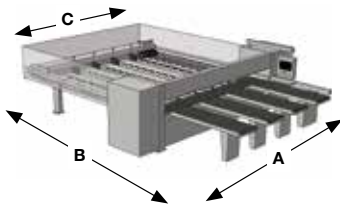


MACHINE DIMENSIONS***			
B-300 plastics	A (mm)	B (mm)	C (mm)
B-300/38/38	5,364	6,543	3,709
B-300/43/32	6,514	6,543	4,859
B-300/43/43	6,514	7,693	4,859

TECHNICAL DATA*		
Model	B-400 plastics	B-500 plastics
Saw blade projection (mm)	125	170
Cutting length (mm)	3,200/3,800/4,300	3,200/4,300/5,600
Program fence speed (m/min) **	90	90
Saw carriage speed (m/min)	0.1-130 (optional: 150)	0.1-130 (optional: 150)
Main saw motor (kW)	24	47
Main saw blade (mm)	450 x 4.8 x 60	570 x 4.4 x 60
Operating software	CADmatic 5	CADmatic 5
Monitor	24" TFT flat touchscreen monitor	24" TFT flat touchscreen monitor
Dust extraction system (m³/h, m/sec) ****	From 6,000; 32	From 7,500; 32
Average total air requirement (NL/min) ****	approx. 120	approx. 150
Operating pressure(bar)	6	6



MACHINE DIMENSIONS***			
B-400 plastics	A (mm)	B (mm)	C (mm)
B-400/38/38	5,307	6,037	3,587
B-400/43/32	6,457	6,037	4,737
B-400/43/43	6,457	7,187	4,737



MACHINE DIMENSIONS***			
B-500 plastics	A (mm)	B (mm)	C (mm)
B-500/32/32	6,235	6,693	3,660
B-500/43/32	7,385	7,843	4,810
B-500/43/43	8,735	9,843	6,160

* Values relate to the standard version
** Forwards 25 m/min
*** Dim. A: incl. 64 mm for dust extraction connection. Dim. C: standard program fence width.
**** Depending on cutting pattern and machine configuration

HC LIFE CYCLE SERVICES

Optimal service and individual consultations are included in the purchase of our machines. We support you with service innovations and products which are especially tailored to your requirements. With short response times and fast

customer solutions we guarantee consistently high availability and economic production – over the entire life cycle of your machine.



REMOTE SERVICE

- Hotline support via remote diagnosis by our trained experts regarding control, mechanics and process technology. Thus, more than 92% less on-site service required and consequently a faster solution for you!
- The ServiceBoard App helps to solve tasks in a fast, simple and concrete way. This is achieved by mobile live video diagnosis, automatic sending of service requests or the online spare parts catalog eParts.



SPARE PARTS SERVICE

- High spare parts availability and fast delivery.
- Ensuring quality by predefined spare parts and wear parts kits, comprising original spare parts.
- Identify and inquire for spare parts online under www.eParts.de 24/7, or buy even faster and more comfortably in the new HOMAG eShop (shop.homag.com).



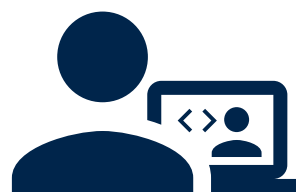
MODERNIZATION

- Keep your machinery up to date and increase your productivity as well as your product quality. This is how you can meet tomorrow's requirements today!
- We support you with upgrades, modernization as well as individual consultancy and developments.



DIGITAL SERVICES

- serviceRemote – the new remote service solution of the future! Fast restart of production because the remote service employee has extensive access to relevant physical data.
- serviceAssist – provides help for self-help. The preventive solutions proposed in the new App are the combination of our experiences and existing machine data.



SOFTWARE

- Telephone support and consultancy through software support.
- Digitalization of your spare parts via 3D scanning saves time and money compared to new programming.
- Subsequent networking of your machinery with intelligent software solutions ranging from construction to production.



FIELD SERVICE

- Increased machine availability and product quality by certified service staff.
- Regular checks through maintenance/ inspection guarantee the highest quality of your products.
- We offer you the highest availability of technicians in order to reduce downtimes in case of unpredictable troubles.



TRAINING

- Thanks to training perfectly suited to your requirements, your machine operators can optimally operate and maintain the HOMAG machines.
- The training also includes customer-specific training documents with exercises proven in practice.
- Online training and webinars. Learn without traveling, meet your trainer in the digital classroom.



For you more than...

1,350

service employees worldwide

92%

less on-site service thanks to successful remote diagnosis

5,000

customers in trainings / year

150,000

machines, all electronically documented in 28 different languages – in eParts

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