

# Power Redefined



# The New 5 Series from HOLZMA – Sets New Standards for Your Success

The new 5 Series from HOLZMA represents a quantum leap in panel sizing technology: more rugged, more powerful and more efficient than all previous models. A generation of horizontal beam saws which sets new standards. High speed, reduced noise emission and completely new technologies are just a few of the highlights. On top of this, there is an add-on system of optional extras that leaves nothing to be desired. Ideal for all companies that process a lot of material in a short time, that mass produce or that cut particularly large boards.



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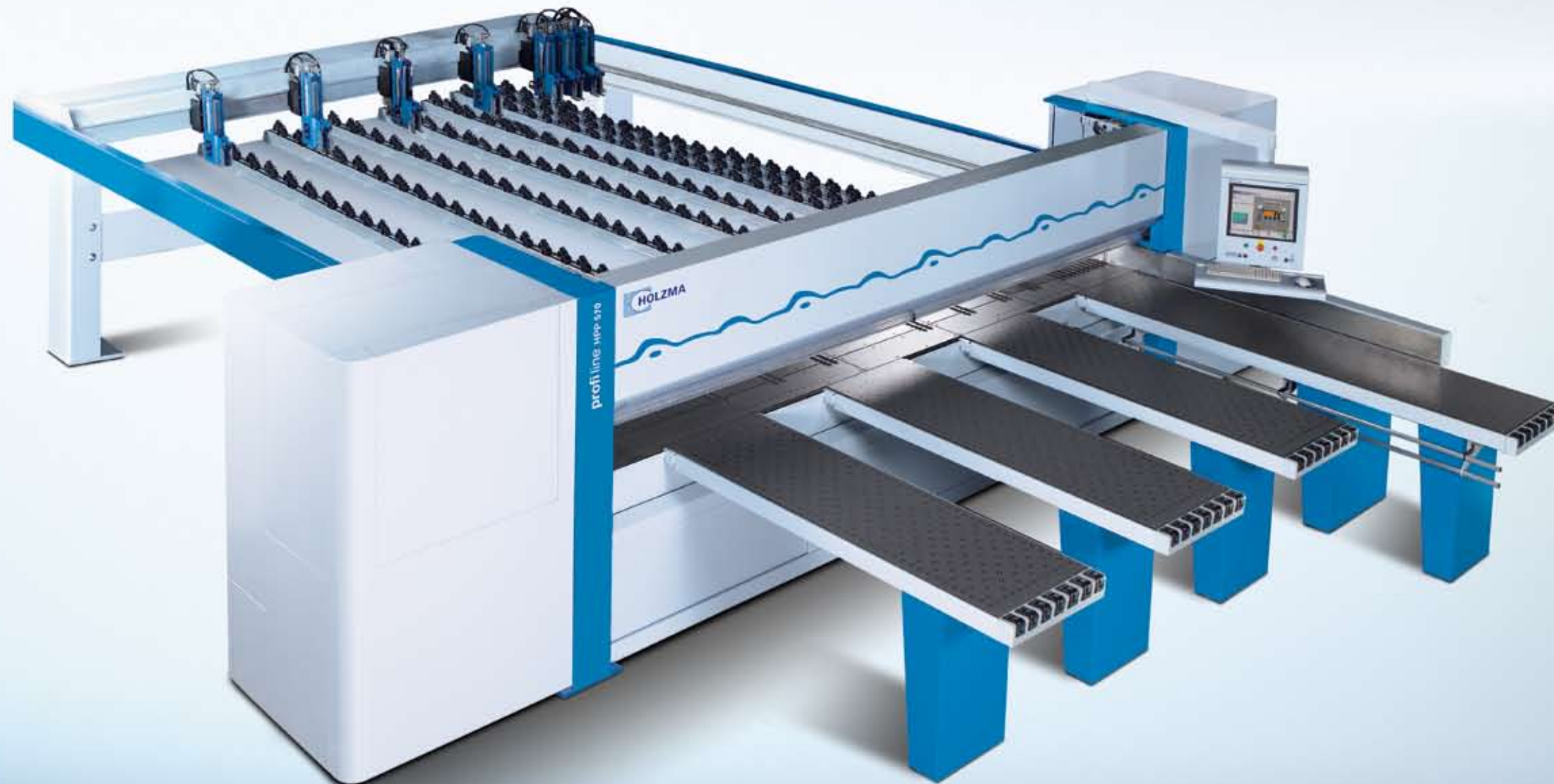


# The HPP Models of the 5 Series – Advantage Through Size

Whether the HPP 530, the HPP 550 or the HPP 570: all three models present convincing innovative technologies and an impressively rugged design the like of which has never been seen before. It is primarily their cutting heights that distinguish them. Even the basic versions of these high-performance saws are designed to meet extreme challenges. This makes them Number 1 in their class for all those who make high demands on performance, speed, precision and flexibility.

## At a Glance: The HPP Models of the 5 Series

- extremely rugged design for continuous, multi-shift operation
- unique: cast mineral saw base – especially quiet, low-vibration and resistant to deformation
- three models with three different cutting heights for tailor-made performance
- cutting length over the entire width, at present up to 5.600 mm
- wide range of optional extras for custom performance and operation



HPP 530



HPP 550



Big picture shows the HPP 570.  
Illustrations may show optional equipment not included in the basic price

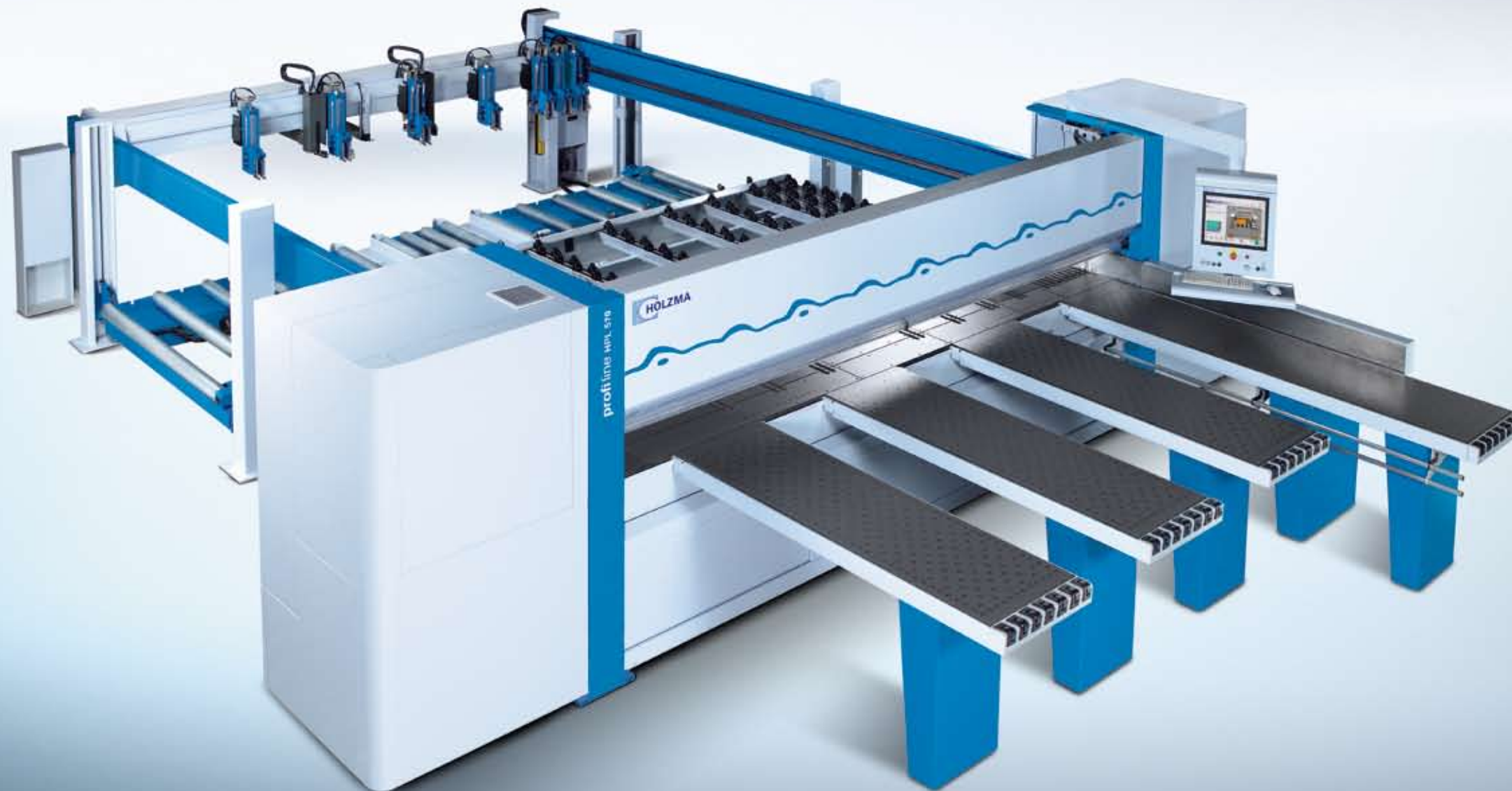
# The HPL Models of the 5 Series – Packed with Power and Including Automatic Infeed

The HPL models of the 5 series are equipped with a heavy-duty lift table for auto-matic infeed. This considerably speeds up the manufacturing process yet again. On top of that, there are quite a few optional extras which allow you to match the performance profile even more perfectly to your requirements.

Like this your HOLZMA will fully satisfy your specific requirements. HPL 530, HPL 550 and HPL 570 – the bigger the model, the higher the cutting height for your books of panels. The choice is yours!

## At a Glance: The HPL Models of the 5 Series

- short production cycles due to automatic infeed
- extremely rugged and designed for maximum heavy-duty operation
- three models with three different cutting heights for your books of panels
- cutting length at present up to 5 600 mm
- new technologies guarantee higher performance and precision
- even more optional extras than the HPP models



HPL 530



HPL 550

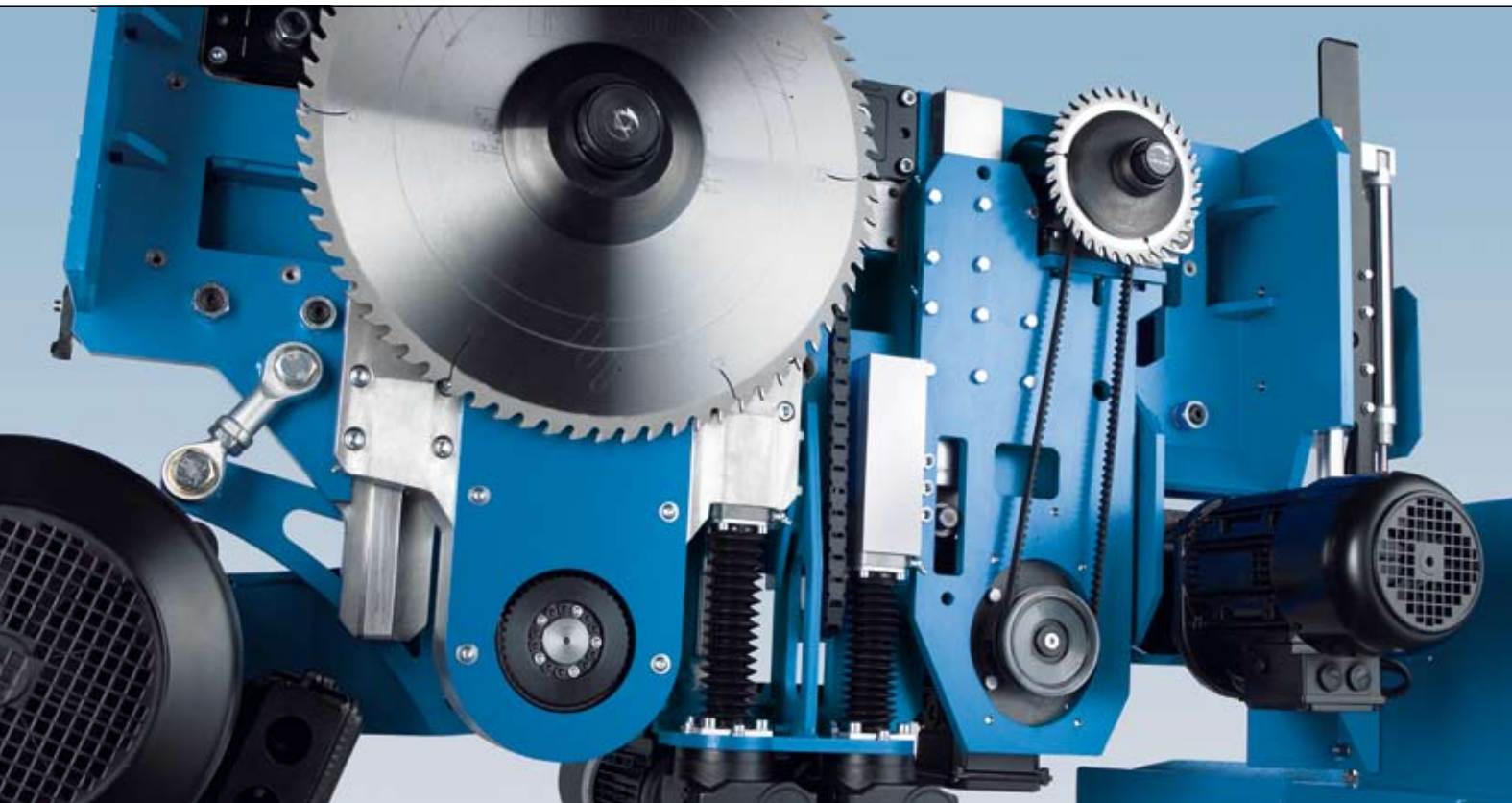


Big picture shows the HPL 570.  
Illustrations may show optional equipment not included in the basic price



# High Tech as Standard – the Most Important Innovations

Features that for many beam saws are, at best, available as optional extras already come standard in the 5 series from HOLZMA. This is even true for absolute world-firsts such as the cast mineral saw base, the newly developed saw carriage and the camera-controlled scoring saw adjustment. Standard features that well exceed the norm.



## Newly Designed Saw Carriage

The power and speed of the new 5 series make exceptionally high demands on the saw carriage. That's why HOLZMA has practically reinvented it. The result is extremely quiet and smooth running, high precision and reduced energy costs. This is achieved by patent-pending technologies such as the new drive principle, the accurate linear guide for the innovative blade-raising system and the light sensor with its own cleaning device.

Additional strong features:

- deformation-resistant, heavy-duty, rugged basic design of the steel plate body for maximum dynamics and accuracy
- infinitely-variable traverse speed for machining parameters optimally adapted to the workpiece
- low-noise, maintenance-free drive for main saw blade
- fast and easy saw blade change thanks to the Power-Loc system
- fast, accurate and infinitely-variable positioning of the saw blades by means of patent-pending linear guide system with rocker



## Patent-Pending: Cast Mineral Saw Base

The faster a machine operates, the higher the susceptibility to vibrations and the noise level. That's why HOLZMA has designed the saw base for the 5 series in cast mineral material. With great success: the new design is extremely rugged, resistant to deformation and quiet, resulting in a positive effect on the accurate running of the saw blades. Running costs are reduced through less wear and longer life.

Your advantages:

- HOLZMA's quietest series
- very rugged and resistant to deformation, resulting in even higher cutting precision
- reduced saw blade wear prolongs life by up to 30 per cent and so cuts maintenance costs
- the completely redesigned saw carriage brings the machine table to a convenient working height for the operator



# High Tech as Standard – the Most Important Innovations

## Patent-Pending: Camera-Controlled Scoring Saw Adjustment

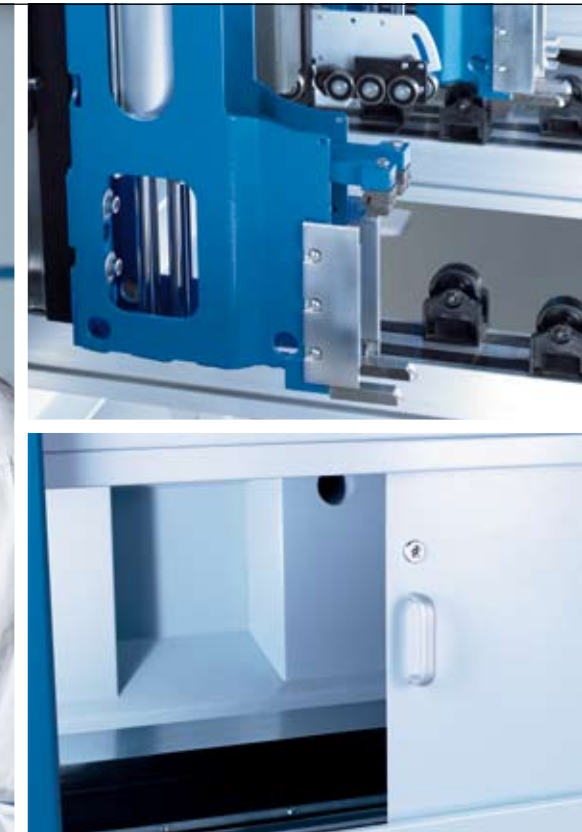
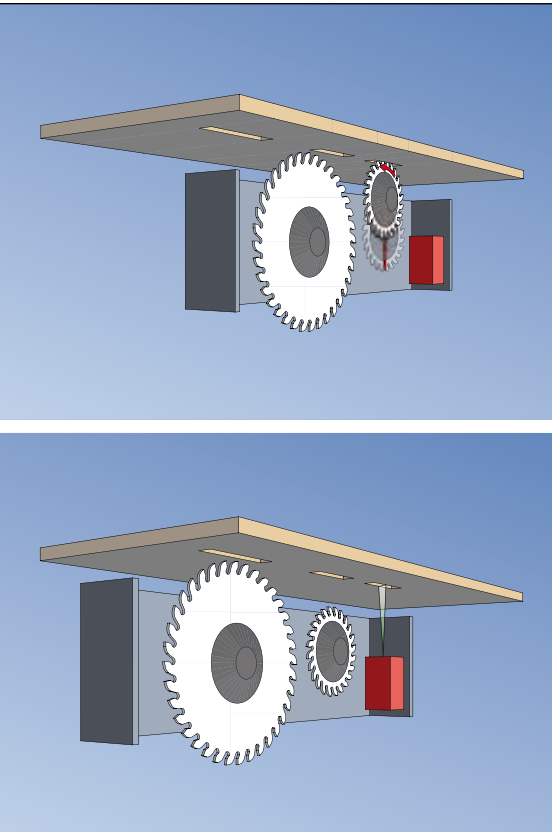
Up to now aligning the saw blades has meant painstaking manual adjustment – time-consuming and full of possible sources of error. HOLZMA's new system puts an end to all that. Accurate alignment of the main and scoring saws now simply entails inserting a test panel and starting the program. Everything else is done automatically. First of all, the main and scoring blades each successively

cut a groove in a test panel. Then a camera mounted on the saw carriage traces the grooves, stops at predefined points and takes test pictures. On the basis of the results a linear measuring system, specifically designed for this purpose, then makes the necessary adjustments to the saw blades. All the changes can be followed on the CADmatic control display.

## Clamps for Perfection Down to the Last Detail

HOLZMA's heavy-duty clamps hold the material firmly but gently and position it now even more accurately onto the cutting line. This is achieved by not fitting the lower fingers until the clamps, together with the pressure beam, have received a final cut in position at the cutting line.

- even more powerful thanks to continuous twin piston rods in each clamp
- material is held more accurately and handled more gently
- designed for continuous, multi-shift operation



The fully-automatic system revolutionises saw blade adjustment, offering a whole bunch of compelling advantages:

- Manual adjustment can be completely dispensed with, reducing the error rate and saving time and costs.
- Test cuts are checked by a precision camera which is maintenance-free and insensitive to dust

- For optimum measurement results, the camera chooses the colour of lighting and the exposure time itself.
- Adjustment seldom takes longer than a minute.
- The result: fully-automatic alignment with maximum accuracy. Optionally, adjustment can still be completed manually.

## Handy Door for Cleaning

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



# High Tech as Standard – Proven and State-of-the-Art

There is always room for improvement is HOLZMA's motto. The proven standard features have therefore again been considerably enhanced.

The 5 series spearheads progress.

## Pressure Beam with Redesigned Geometry

- rugged, steel construction
- shorter cycle times due to a more dynamic pneumatic system
- improved dust extraction extraction due to considerably lower flow resistance

## Innovative Clip-In Brushes

Brushes fitted inside the gaps for the clamps seal the pressure beam and prevent dust from escaping:

- clip-in principle for fast, easy change of brushes
- dust is extracted without any swirling and via the shortest path – also through the angular fence

## New Micro-Joint Technology

The gaps for the optional clamps are completely sealed, but can easily be opened if required. This further improves dust extraction.

## Program Fence: Precision and Dimensional Accuracy

Resistant to deformation and bending, the electronically-controlled program fence with clamps and precision guide has an electro-magnetic measuring system which guarantees positioning accuracy of +/- 0.1 mm. This allows even minimal trim and dust cuts. The measuring system entails absolutely no wear and no maintenance.



## Air Jets Throughout as Standard: the Machine Table

Anyone working with sensitive material or especially heavy boards and books will benefit from the machine table being equipped with air jets throughout. An extra that comes standard in the 5 series from HOLZMA. That makes it unique!



## HOLZMA Patent: Central Side Aligner

- Time is money, that's why HOLZMA has integrated the side aligner directly in the saw carriage. This shortens cycle times by up to 25% in comparison to conventional systems.
- Contact pressure is infinitely variable, allowing even thin boards, laminates or sensitive materials to be machined perfectly.
- The side aligner can travel the entire cutting length.

## Control Tailored to Your Needs – CADmatic 4 PROFESSIONAL

Developed especially for production processes in panel sizing technology, this control software provides optimised processes. This allows you to exploit the full potential of the machine.

- easy-to-understand control software with realtime, 3D moving graphics
- 19" TFT flat screen monitor with touch screen
- online diagnostics



# Extras Tailored to Your Needs – Optional Extras for all Models of the 5 Series

HOLZMA's flexible add-on system offers you numerous optional extras for even more performance and functionality. Custom modules tailored to your requirements. This enables you to match you HOLZMA exactly to your production requirements and realise its full potential.

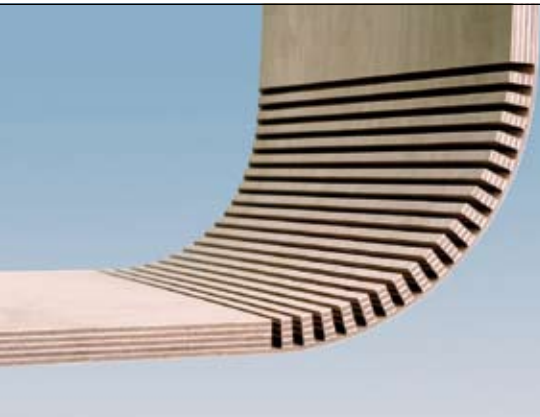
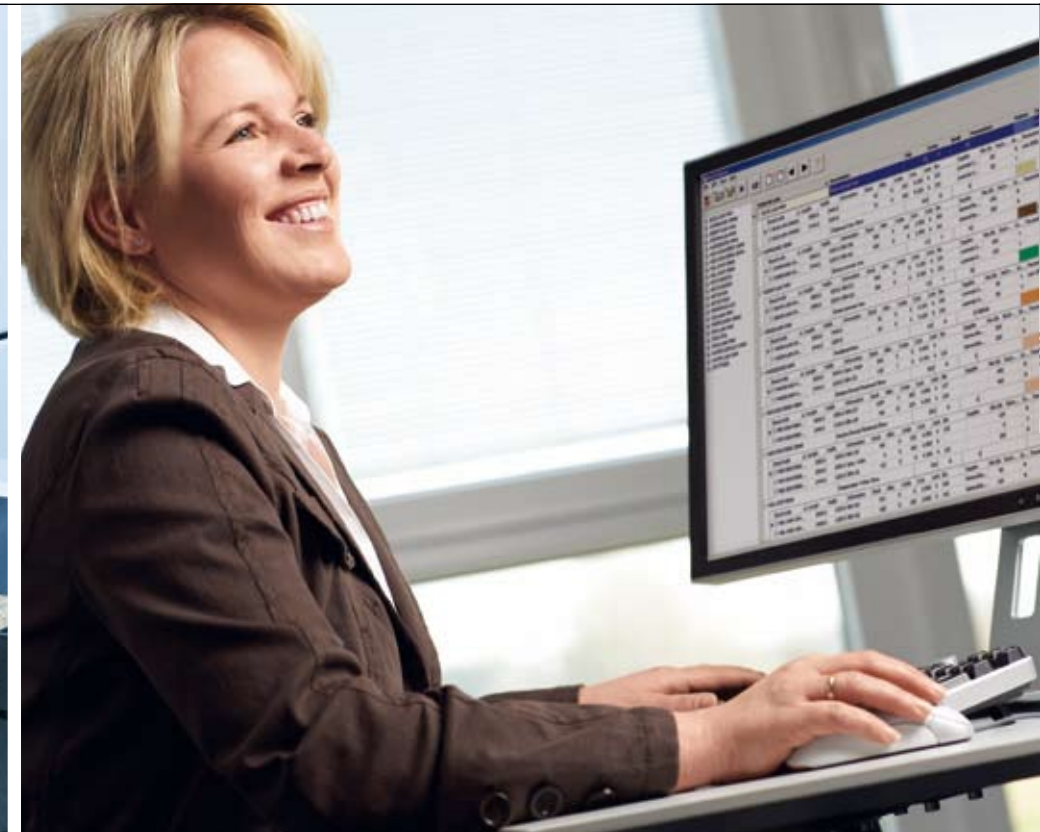
## Sizing and Grooving

The “Turbo-Grooving” option saves you an entire production step in subsequent machining. Because your HOLZMA also grooves the panel material in both directions – all at top speed.

## Cut-Out and Stress Release Cut

Tension in the material is released when it is cut and can affect the quality of dimensions and cuts. HOLZMA's stress-release cut option remedies this – systematic preliminary cuts eliminate the tension in

the material. The additional cut-out feature allows you also to produce both cut-outs and inserted grooves in the panels, as are required, for example, for kitchen sinks.



### Label Printer

HOLZMA's label printer facilitates an efficient workflow. You can print individual labels directly at the saw and design them to include barcodes, text and graphics, if so desired. If, in addition, you use our Cut Rite optimisation software, instructions for downstream CNC machining can also be included on the labels. Link-up to ERP/PPC systems is also possible. In this way, you can integrate the saw perfectly in your manufacturing process.

### Optimisation in the Office

With its excellent optimisation software Cut Rite, HOLZMA provides top performance and higher efficiency in panel sizing technology.

- optimised project control
- efficient cut-to-size operations
- fast calculations
- full control of costs

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

### Pneumatic Trim Stops for Special Materials

With these, your HOLZMA can also master material with overhanging laminates or veneers. The pneumatic trim stops are integrated in the clamps and simply activated when required:

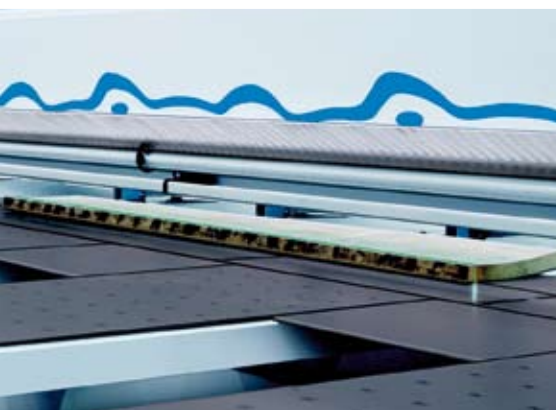
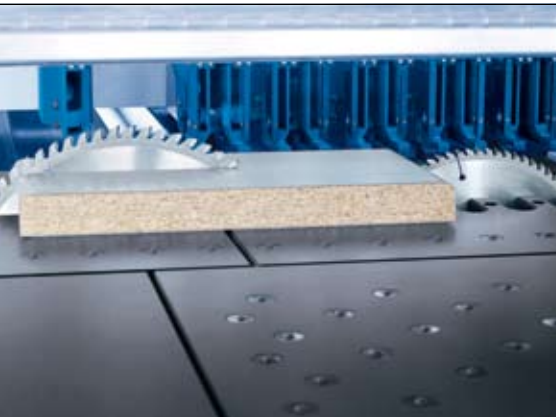
- exact positioning
- gentle handling of sensitive materials with overhanging laminates or veneers



# Extras Tailored to Your Needs – Optional Extras for all Models of the 5 Series

## Perfect Postforming Cut

The ascending scoring saw unit ensures perfect cuts on softformed and postformed parts.



## High-Precision Laser Alignment

Accurate cuts require accurate positioning. This is particularly important, for example, when cutting solid wood panels. HOLZMA's purpose-designed laser guide line option provides assistance here.

- exact positioning right down the line
- ideal for positioning solid wood and veneered panels

## Clean Angle Cuts

With the angular cut option you can control accurate angle cuts either manually (small pictures) or simply automatically (big picture) via the CADmatic control, allowing you to achieve accurate results quickly and easily.



## Clamps for Narrow Parts

With this option your HOLZMA can position even strips that are only 20 mm wide accurately at the cutting line for crosscutting.

## Closing Device for Cutting Gap

This optional feature prevents narrow strips, or waste resulting for example from trim cuts, from getting caught in the cutting line.

## Closing Device for Clamp Track

The clamp tracks are closed pneumatically to provide a supporting surface over the entire table. This technology allows even strips just 1 mm thick to be cut virtually chip-free.



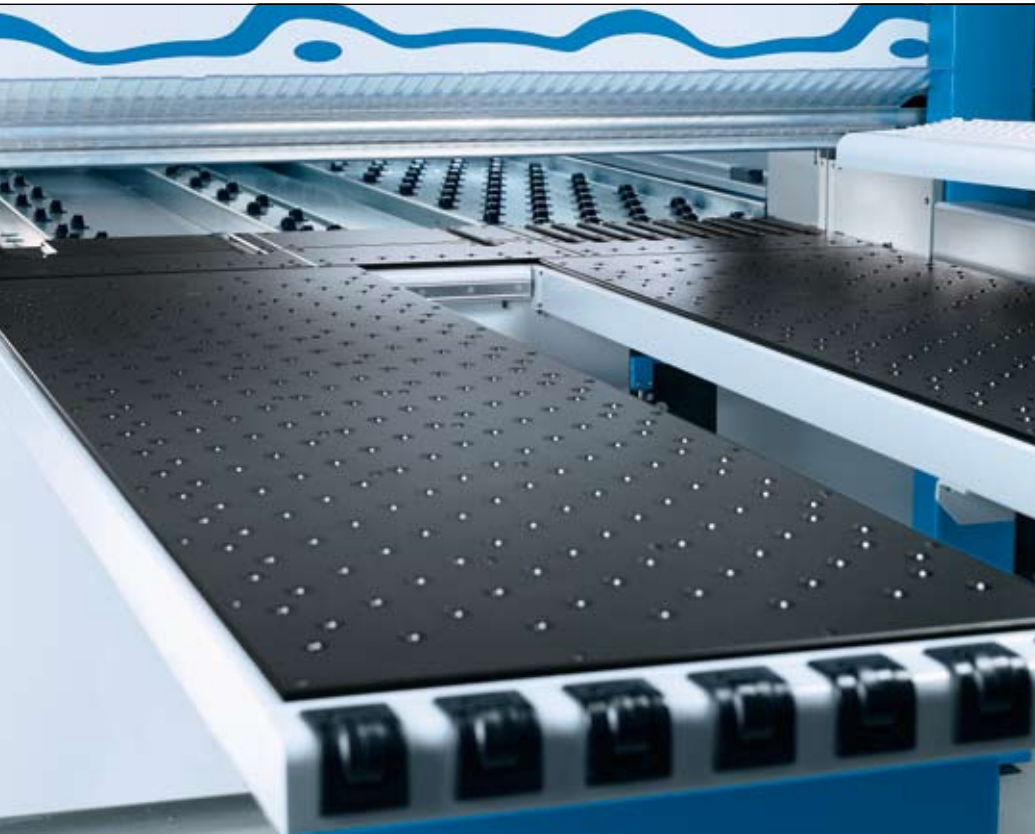
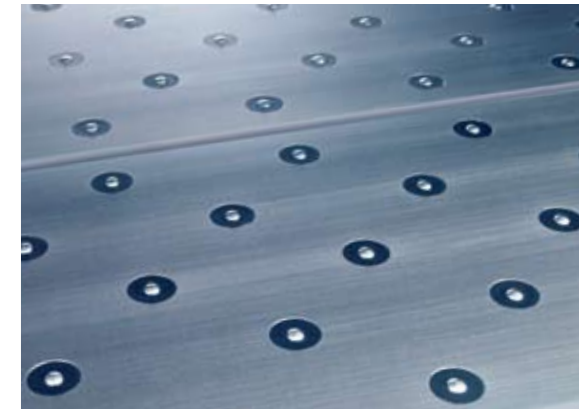


# Extras Tailored to Your Needs – Optional Extras for all Models of the 5 Series

Optional Extras  
**HPP 530 | 550 | 570**  
**HPL 530 | 550 | 570**

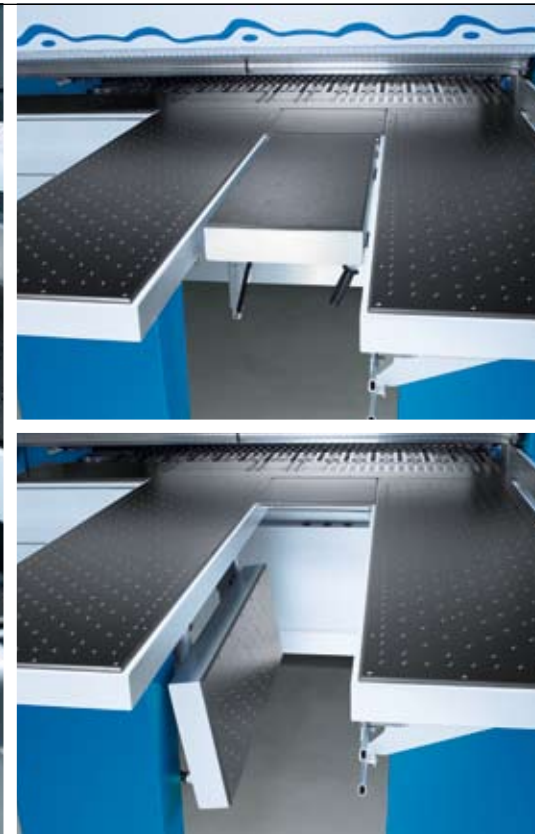
## Anodised Aluminium Machine Bed Plates

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



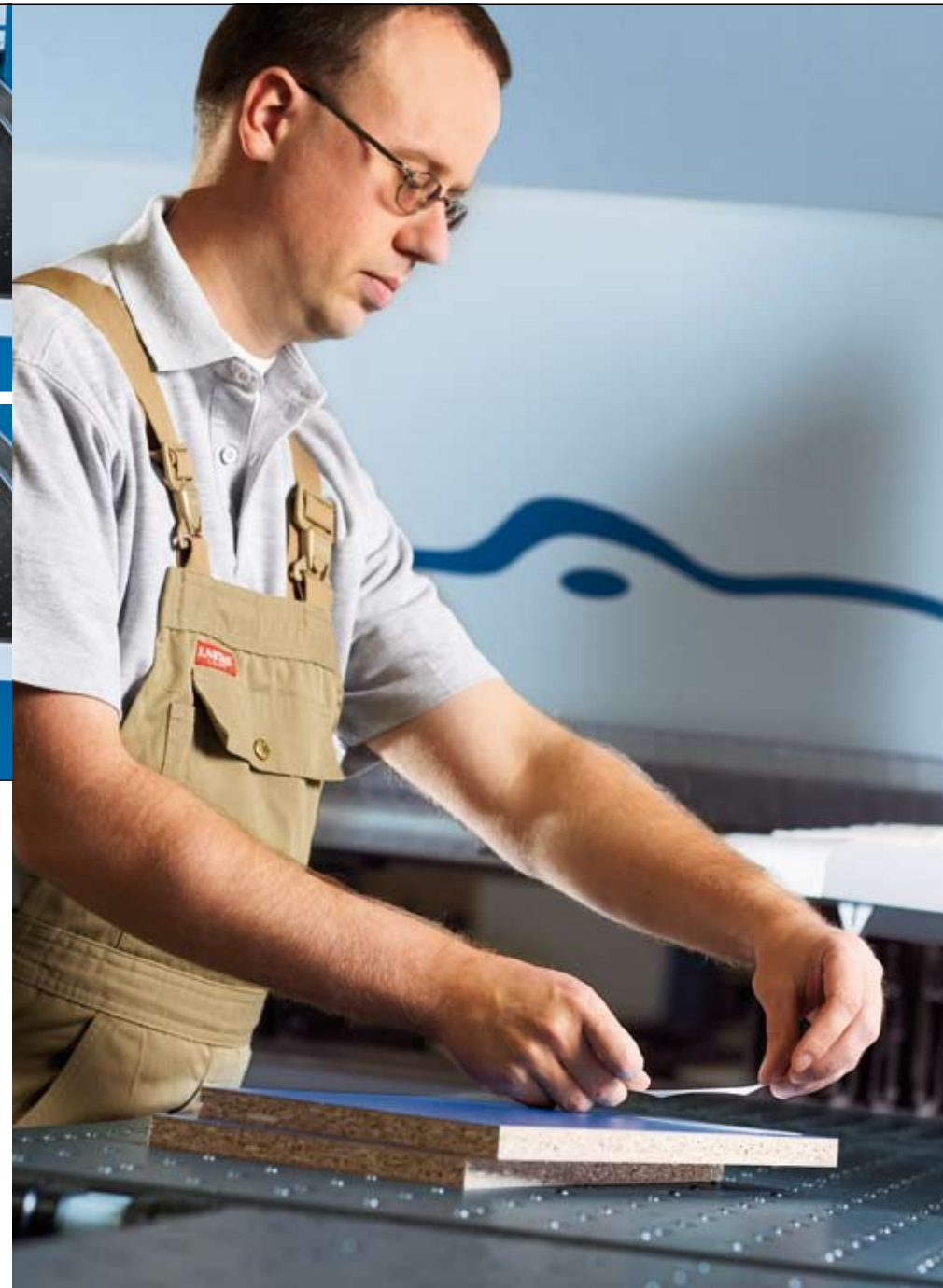
## Movable Air Table

The movable air table is easily moved along linear guides and offers you a mobile work surface and storage area. It enables you to move small and big panels or books more ergonomically and at the same time with less risk of damage.



## Tiltable Air Table

For plenty of room and free movement at the saw. The support area is designed for big panels. And so that you nevertheless have easy access to the saw when you need it, you can simply drop it down.



## Turning Air Table

The turntable makes light work material handling. Especially for large-size or thin strips and heavy materials.

## Rear Dust-Trap Curtain

Ideal when working with materials that involve the formation of a lot of dust during cutting. The rear curtain prevents dust swirling in the air and also improves dust extraction.

## Stainless Steel Air Table

For all those dealing with extremely sensitive materials. The special, high-quality surface allows especially gentle material handling.



# Extras Tailored to Your Needs – Optional Extras Exclusively for the HPL Models of the 5 Series

HOLZMA offers additional optional extras exclusively for the HPL models of the 5 series – for higher efficiency and performance as well as more custom functionality. Making sure you are optimally equipped to meet even the highest demands. See for yourself!

## Micro-Infeed for Thin Panels / Hold-Back Device

The micro-infeed ensures that books contain the exact quantity of panels specified when they are pushed onto the machine table, even when the single panels have a minimum thickness of 6 mm. Book height is measured by a non-contact, electro-magnetic measuring system which is completely maintenance-free. Optionally available in combination with a hold-back device for thin panels, for panels with a minimum thickness of 3 mm. (picture shows both options)

## Turning Device for Headcuts

The ideal addition for quick, accurate headcuts – perfectly integrated in the machining cycle.

The advantages:

- considerable improvement in performance
- less time required for preparation
- easy operation

## Automatic Pushout Fence

A valuable labour-saving device for large-scale sizing systems such as the HPL models of the 5 series. The automatic pushout fence moves offcuts forward from the rear machine table, making room for new panels. Also available as an option for the HPP models of the 5 series.



## Compact and Economical “2 in 1”

“2 in 1” offers two feeding options in one. This is how it works: An infeed carriage with integrated vacuum cups and infeed devices is located above the lift table. This allows sensitive, thin panels as well as material that can be push-fed to be deposited on the feed-stacking table, aligned and forwarded to the saw for further processing. Optionally, feeding and cutting can run simultaneously. The advantage: “2 in 1” is fast, space-saving and economical – making sure you are prepared for all current and future requirements.



## 4 Side Alignment Table

The material deposited on the rear machine table is aligned by special positioning stops. (top picture)

## Automatic Removal of Spoilboards

This optional extra allows spoilboards for sensitive material to be automatically pushed off the lift area. This additionally accelerates the manufacturing processing.

## An Eye on Everything – with Video Monitoring

HOLZMA offers an optional video monitoring system for the rear machine table – so that you can keep an eye on everything at all times, even with the big beam saws of the 5 series. This improves occupational safety.

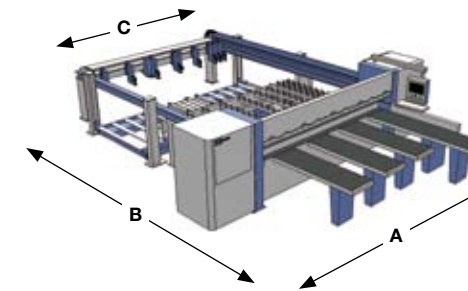
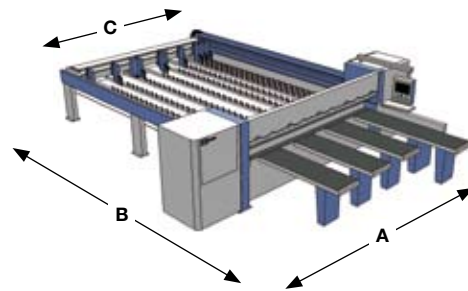
## Separate Backing Wall

The heavy-duty backing wall is not attached to the machine base. This ensures even smoother running and accurate cuts.



# HOLZMA's 5 Series at a Glance

Size, performance, features: Here you can find the most important technical data for the new 5 series at a glance. You would like to know more right now? Your HOLZMA sales advisor will be pleased to give you more information.



Technical Data *	HPP 530	HPP 550	HPP 570	HPL 530	HPL 550	HPL 570
<b>Saw blade projection</b>	130 mm (5.12")	150 mm (5.9")	170 mm (6.69")	130 mm (5.12")	150 mm (5.9")	170 mm (6.69")
<b>Cutting length (mm)</b>	3 200/3 800/4 300/5 600/6 500** (126"/150"/170"/220"/256"***)	3 200/3 800/4 300/5 600/6 500** (126"/150"/170"/220"/256"***)	3 200/3 800/4 300/5 600/6 500** (126"/150"/170"/220"/256"***)	3 200/3 800/4 300/5 600/6 500** (126"/150"/170"/220"/256"***)	3 200/3 800/4 300/5 600/6 500** (126"/150"/170"/220"/256"***)	3 200/3 800/4 300/5 600/6 500*** (126"/150"/170"/256"***)
<b>Lift table width (mm)</b>	-	-	-	1 600/2 200 (63"/87")	1 600/2 200 (63"/87")	1 600/2 200 (63"/87")
<b>Program fence speed ***</b>	25/80 m/min (82/262 ft/min)	25/80 m/min (82/262 ft/min)	25/80 m/min (82/262 ft/min)	25/80 (82/262 ft/min)	25/80 (82/262 ft/min)	25/80 (82/262 ft/min)
<b>Saw carriage speed</b>	1-150 m/min (3-492 ft/min)	1-150 m/min (3-492 ft/min)	1-150 m/min (3-492 ft/min)	1-150 m/min (3-492 ft/min)	1-150 m/min (3-492 ft/min)	1-150 m/min (3-492 ft/min)
<b>Main saw motor</b>	18*/21 kW (25 HP)	18*/21/30 kW (25 HP)	30*/43 kW (40 HP)	18*/21 kW (25 HP)	18*/21/30 kW (25 HP)	30*/43 kW (40 HP)
<b>Scoring saw motor</b>	2,2 kW (3 HP)	2,2 kW (3 HP)	2,2 kW (3 HP)	2,2 kW (3 HP)	2,2 kW (3 HP)	2,2 kW (3 HP)
<b>Total air requirement</b>	150 NI/min (5.3 cfm)	150 NI/min (5.3 cfm)	150 NI/min (5.3 cfm)	150 NI/min (5.3 cfm)	150 NI/min (5.3 cfm)	150 NI/min (5.3 cfm)
<b>Required air pressure</b>	6 bar (87 psi)	6 bar (87 psi)	6 bar (87 psi)	6 bar (87 psi)	6 bar (87 psi)	6 bar (87 psi)
<b>Dust extraction</b>	5 800 m³/h, 26 m/sec (3 413 cfm)	5 800 m³/h, 26 m/sec (3 413 cfm)	5 800 m³/h, 26 m/sec (3 413 cfm)	5 800 m³/h, 26 m/sec (3 413 cfm)	5 800 m³/h, 26 m/sec (3 413 cfm)	5 800 m³/h, 26 m/sec (3 413 cfm)
<b>Total connected load</b>	27 kW (37 HP)	27 kW (37 HP)	39 kW (53 HP)	30 kW (41 HP)	30 kW (41 HP)	42 kW (57 HP)
<b>Max. stack height without pit</b>	-	-	-	680 mm (26.8")	680 mm (26.8")	680 mm (26.8")
<b>Maximum stack weight</b>	-	-	-	7 t (15 430 lbs)	7 t (15 430 lbs)	7 t (15 430 lbs)

### Machine dimensions (approx. values)

HPP 530   550   570	A****	B	C
<b>32/32</b>	6 550 mm (257.9")	6 693 mm (263.5")	3 670 mm (144.5")
<b>38/38</b>	7 110 mm (279.9")	7 293 mm (287.1")	4 230 mm (166.5")
<b>43/43</b>	7 700 mm (303.1")	7 843 mm (308.8")	4 230 mm (166.5")
<b>56/56</b>	9 050 mm (356.3")	9 193 mm (361.9")	6 170 mm (242.9")

\* Values refer to the standard version  
 \*\* 6 500 mm scheduled availability 2008  
 \*\*\* North America unrestricted 80/80 m/min  
 \*\*\*\* Dimension A includes space for extraction connection

### Machine dimensions (approx. values)

HPL 530   550   570	A****	B	C
<b>32/16</b>	6 550 mm (257.9")	9 318 mm (366.9")	3 670 mm (144.5")
<b>32/22</b>	6 550 mm (257.9")	10 078 mm (396.8")	3 670 mm (144.5")
<b>38/16</b>	7 110 mm (279.9")	9 318 mm (366.9")	4 230 mm (166.5")
<b>38/22</b>	9 050 mm (356.3")	10 078 mm (396.8")	4 230 mm (166.5")
<b>43/22</b>	7 700 mm (303.1")	10 078 mm (396.8")	4 820 mm (189.8")
<b>56/22</b>	9 050 mm (356.3")	11 418 mm (449.5")	6 170 mm (242.9")



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Printed 05/07. Subject to technical changes.  
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