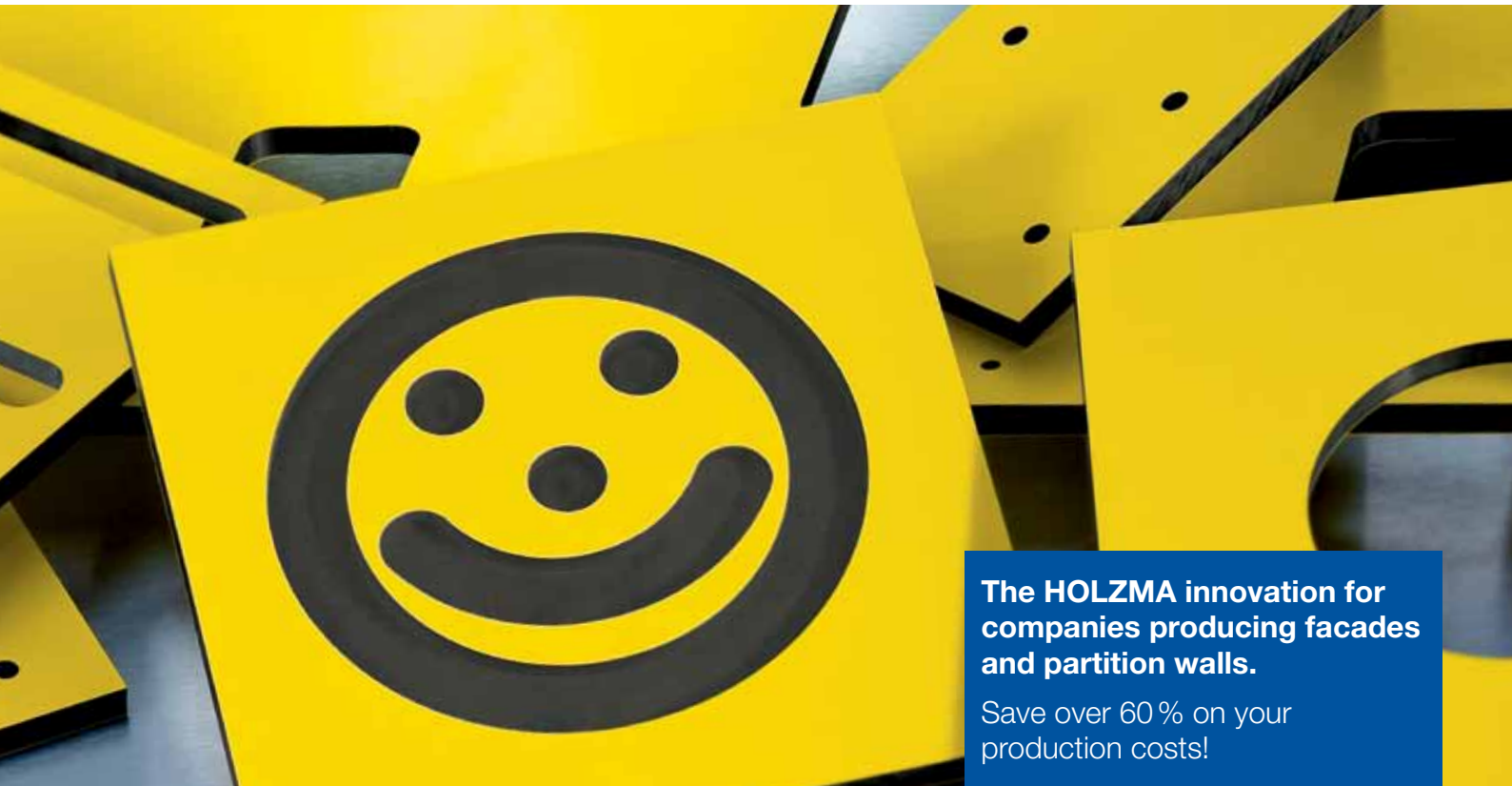


HPP 300 multiTec – sawing, drilling, routing



The HOLZMA innovation for companies producing facades and partition walls.

Save over 60 % on your production costs!

HPP 300 multiTec

Version 2016/1

The ultimate innovation for companies producing facades and partition walls

The HPP 300 multiTec panel saw deals with three processing steps in a single pass – with a high level of precision and fully automatically: sawing, drilling and routing. Ready-to-assemble elements are the result – ideal for companies producing facades and partition walls, as well as for manufacturers of concrete formwork.



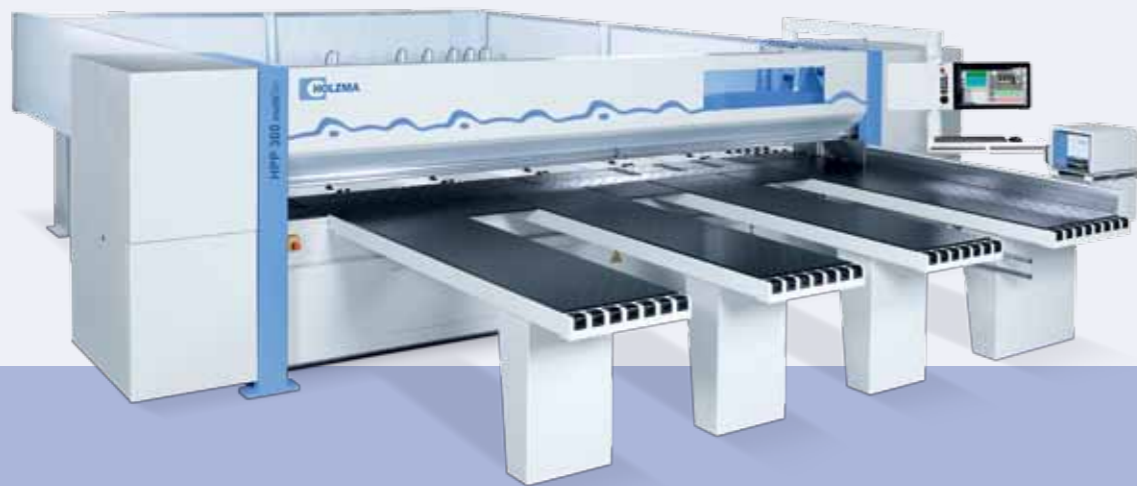
View multiTec in action here

“The HPP 300 multiTec is a saw that can drill and rout – all in a single pass. This saves time and money. We developed the HPP 300 multiTec for manufacturers of facades and partition walls and for all those who need to drill accurately positioned, high quality holes in a panel. Thanks to the HPP 300 multiTec these customers can now entirely do without additional CNC processing. Subsequent processing on the construction site is also no longer necessary.”

Christian Galambos, software engineer at HOLZMA



The technology – intelligent and precisely coordinated



“The HOLZMA HPP 300 multiTec is just the thing for facade construction – fast and very versatile. Regardless of whether the panels are fiber concrete, wooden, Alucobond or HPL.”

Walter Leopold,
owner of Holzbau Leopold GmbH & Co. KG

The saw HPP 300

The HOLZMA HPP 300 cuts the unprocessed panel automatically. The program fence with clamps positions the material over the cutting line. It is held in position there by the pressure beam while it is cut.



The drilling and routing unit

The innovative multiTec drilling and routing unit is integrated in the rear machine table of the saw, below table level. The drilling unit has 9 drill spindles. Drills with diameters of 2 to 35 mm can be used. This is complemented by a routing unit. Use of the unit is decided fully automatically by the saw on the basis of the cutting pattern.



Separate aligning and holding-down system

The program fence takes hold of the panel to be processed with its clamps and positions it over the multiTec unit for drilling or routing. The panel is held in position here by a special aligning and holding-down system with integrated dust extraction and processed from below.

multiTec – the benefits

- Fully automatic sawing, drilling and routing
- Ready-to-assemble elements, precisely manufactured
- Faster production due to significantly reduced processing times as no further processing on a CNC machine is required
- The resulting dust does not collect on the panel
- Software controlled with numerous add-on options, for example HOLZMA's cutting pattern optimization software Cut Rite, or CADmatic options such as “material-dependent parameters” for automatic adjustment of the saw to the respective panel material
- Suitable for almost all wood-based and plastic panel materials, as well as for panels made of gypsum or composite materials
- More ergonomic and more precise than circular saws or vertical saws
- As currently standard handling operations have been eliminated, the risk of damage drops significantly

HPP 300 multiTec – saves time, effort and costs all along the line

multiTec allows you to produce ready-to-assemble elements in a single pass. This eliminates the need to change machines, which involves repeated transport of the panels, and error-prone drilling operations on site.

“Drilling on the saw is up to **60% cheaper** than conventional drilling processes. Furthermore, initial outlay for the HPP 300 multiTec is considerably lower than, for example, for the metal-working machines that would alternatively be required.”

*Walter Leopold,
owner of Holzbau Leopold GmbH & Co. KG*

Without multiTec Version 1



Without multiTec Version 2



Disadvantages: handling (risk of damage), parts have to be cleaned and many more

With multiTec



Mr Leopold, why did you opt for HOLZMA and the new HPP 300 multiTec?

“Although I knew HOLZMA by name, I had no experience at all with HOLZMA products. What really convinced me about the HPP 300 multiTec was the high processing speed. Another enormous benefit is the low dust formation – this is achieved on the one hand by the powerful extraction system, and on the other by drilling being completed from below, which means that practically no dust collects on the panel.”

What materials do you process on the new machine?

“We use the HPP 300 multiTec 80 percent of the time for processing steps in constructing facades and 20 percent for timber work. We process a wide range of materials for facade construction. They include, for example, fiber cement panels and HPL panels made of plastic laminate, as well as Alucobond panels and, of course, all the usual wood-based materials. Our multiTec copes with this diversity without any trouble.”

What does it cost to drill a hole?

“Production costs for drilling a hole manually are about 1.10 to 1.20 euros. Now multiTec does the drilling fully automatically, thus halving our costs per hole. They are now only about 60 cents. There are also other important advantages, one being that I no longer need to clean the surfaces of the processed parts, simply because they leave the machine clean. We used to drill holes on the building site – now the panels go out ready for assembly. This speeds up assembly and makes us independent of the weather for manufacturing and assembling.”

State of the art – the features

HOLZMA horizontal panel saws are a byword for state-of-the-art cutting technologies. You can see some of the highlights here. All the others can be found in the 3 series brochure and in our new handling and software brochures.

“With the HPP 300 multiTec you get cutting-edge technology packed into an all-in-one solution. In addition to offering state-of-the-art drilling and routing technology, this saw can be equipped with nearly all the optional features of the proven HOLZMA 3 series. You can configure your saw to meet all your requirements from A to Z.”

Martin Kress, Product Manager at HOLZMA



CADmatic with powerTouch

HOLZMA's CADmatic control software allows the HOLZMA HPP 300 multiTec to be operated easily and intuitively.

- Full HD widescreen multi-touch monitor
- Uniform HOMAG Group user interface powerTouch
- Easy-to-understand operating software

- 3D real-time process graphics
- Graphically supported diagnostics
- Permanent access to all cutting, drilling and routing functions



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 near the pressure beam
- Protects operators from dust
- Improves extraction
- Ideal for dust cuts



dustEx*

The machine table is equipped with innovative dustEx combination air jets, which guide dust and chips directly towards the extraction system in the right-angled fence.



dustEx
Video available



Cutting gap closers*

Open and close automatically during the machine cycle, preventing narrow strips or trimmings from getting caught in the cutting line.



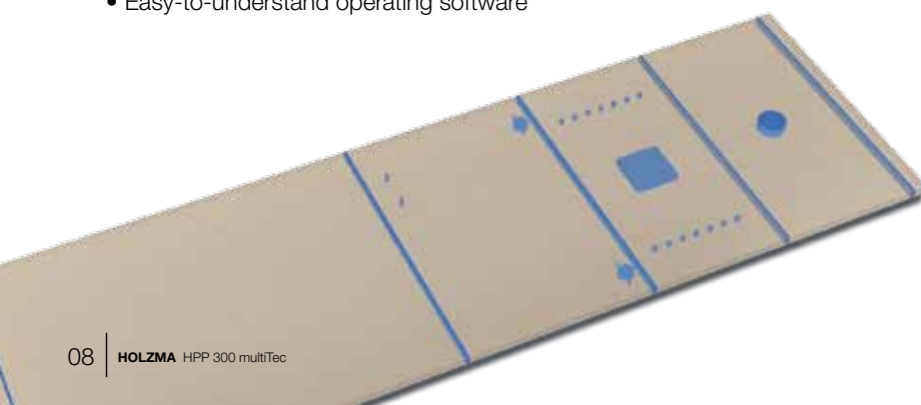
Plasterboard package

Even demanding gypsum materials can be processed smoothly and precisely thanks to the plasterboard package.



Program-activated clamps*

This option protects panel materials with sensitive or overhanging edges, dependably preventing damage.



* available as an option

State of the art – the features

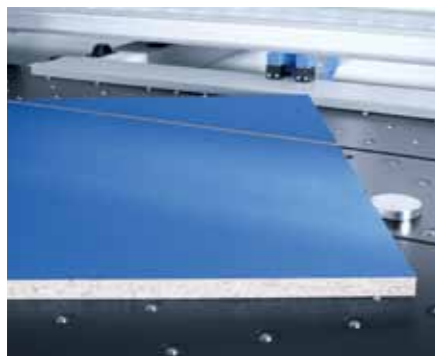
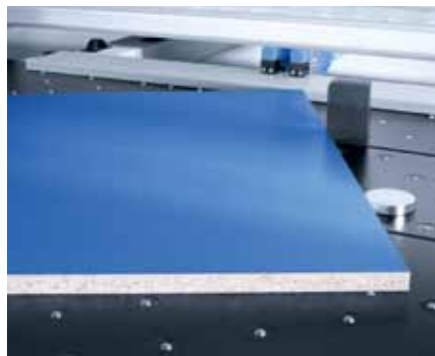
Further information about standard and optional features is available in our brochures "The 3 series", "Handling", "CADmatic" and "Cut Rite".

Automatic feeding*

HOLZMA offers a variety of feeding solutions ranging from simple gantry option to complex storage system integration. There is a suitable solution for everyone.

- Automatic feeding for small and large panel saws
- Storage system, feeding equipment and saw are perfectly matched
- Ergonomic handling – even with just one machine operator
- Easy to operate

Find out more about automatic feeding solutions in the HOLZMA Handling brochure.

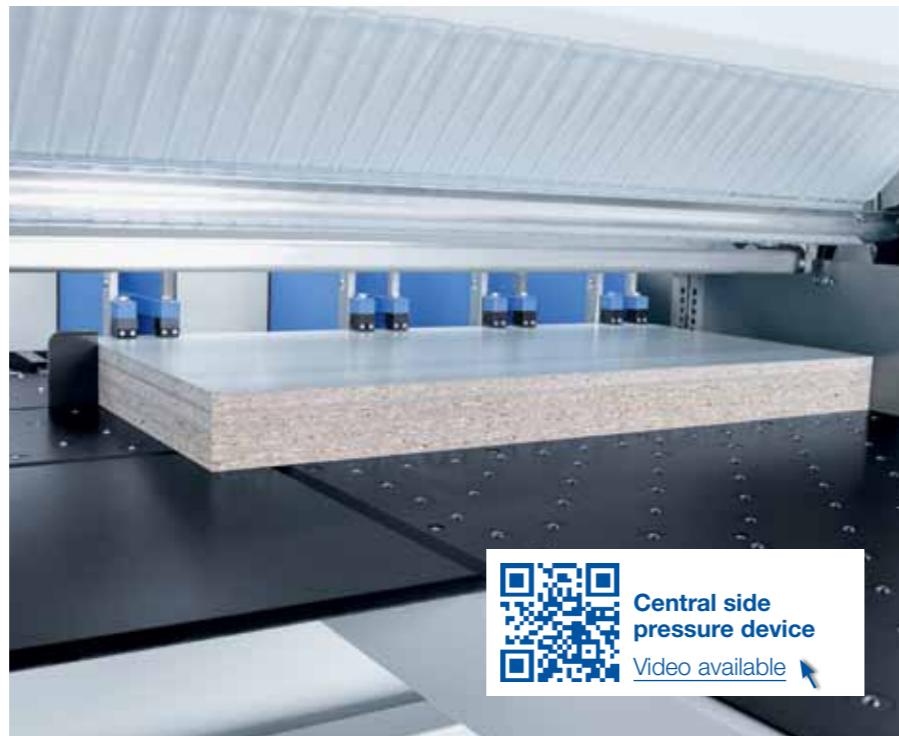


Manual angle cuts

[Video available](#)

Manual angle cuts*

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



Central side pressure device

[Video available](#)

HOLZMA patent: 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 boards, laminates or sensitive materials to be processed perfectly. A new feature here is the book-height-dependent control of the contact pressure: the higher the book, the greater the pressure



Fully automatic labeling

[Video available](#)

Fully automatic labeling*

HOLZMA labeling options facilitate an efficient workflow. The manually operated label printer 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, instructions for downstream CNC machining can also be included on the labels. In this way, you can integrate the saw perfectly in your production flow.

The fully automatic labeling unit located near the pressure beam, i.e. in your field of vision, goes one step further and automatically labels the finished parts or books. 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



Grooving

[Video available](#)

Kerfing and turbo-grooving*

These options save you an entire production step in subsequent processing. This is because your HOLZMA saw will also groove the panel material. The turbo-grooving option completes the grooves even much faster than a processing center. This is achieved by the saw blade cutting the grooves in both directions as it moves back and forth. The result is high-speed grooving.

State of the art – the features



Cutting pattern optimization in the office

HOLZMA increases output and efficiency in panel cutting with its proven optimization software Cut Rite.

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

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.



Additional start-stop button*

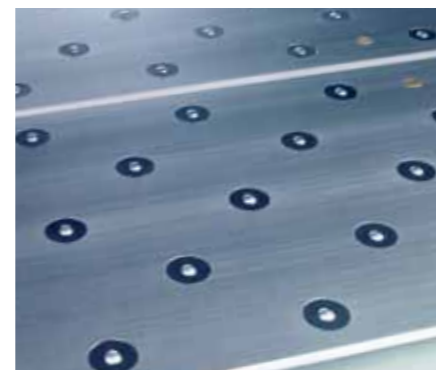
Allows the program sequence to be started independently of the control panel.

- Equipped with an emergency stop button



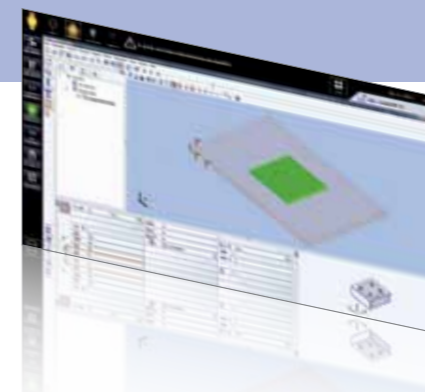
Tiltable air cushion table* (Illustrations show the principle)

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



Anodized aluminum machine bed plates*

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



woodWOP

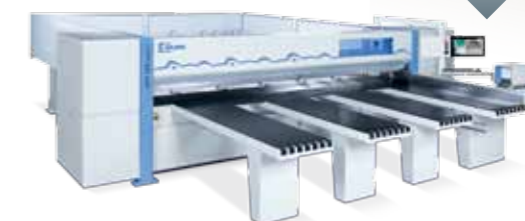
woodWOP is the proven software option from the HOMAG Group that allows you to program all your CNC processes. woodWOP is used on the HPP 300 multiTec saw for drilling, undercut drilling and for routing cut-outs or pockets.

.mpr



Cut Rite parts list

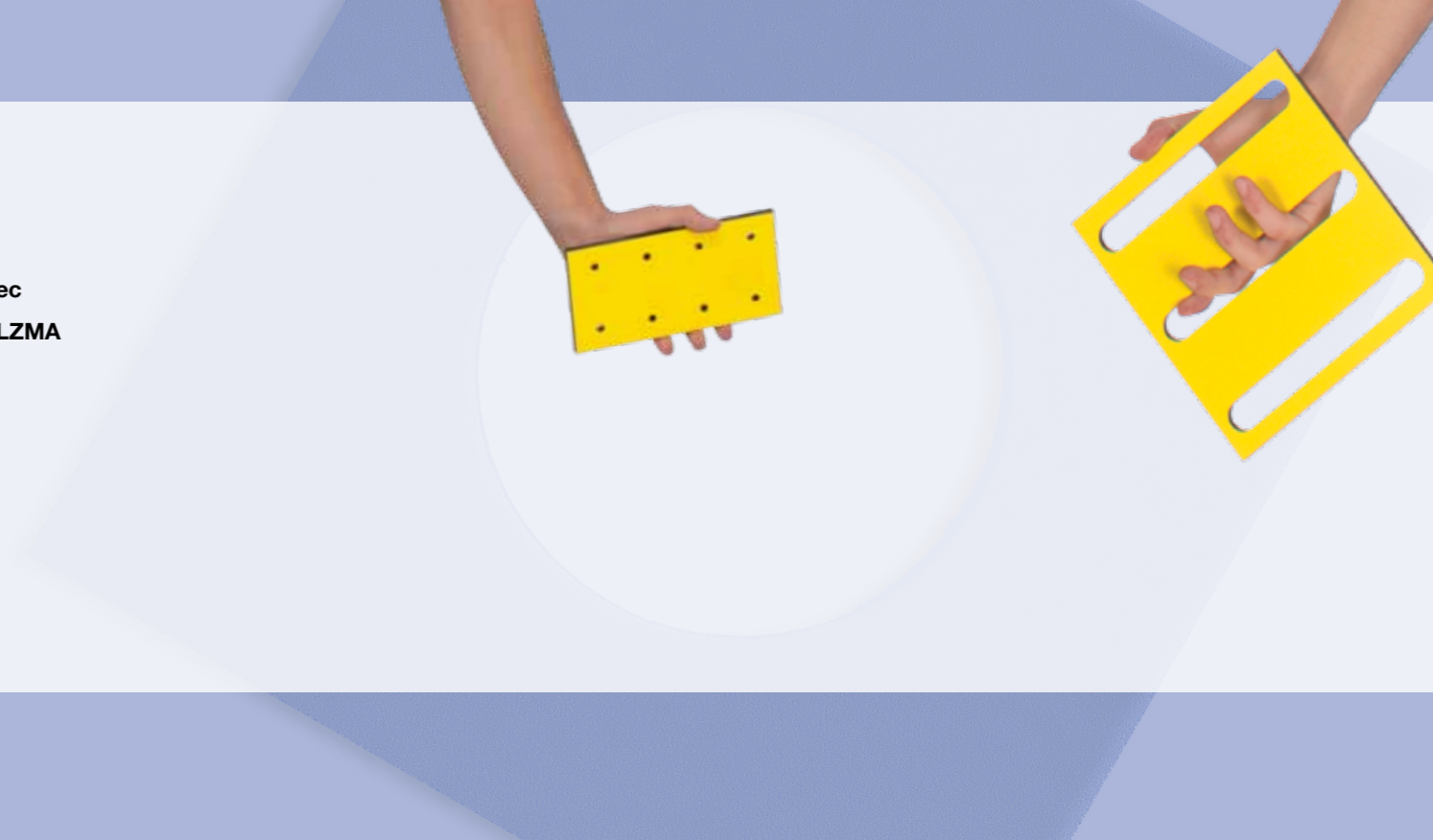
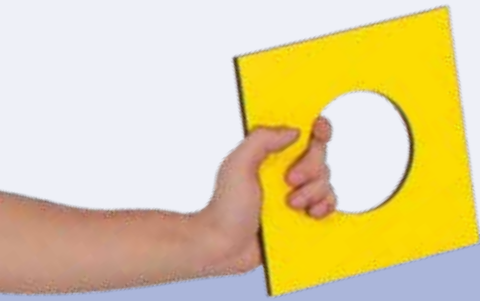
- Manual input
- Insert from woodWOP files
- Insert from part library
- Insert from DXF
- Insert from machining library
- Import from CSV, Excel, ... with up to 50 variables
- Edit and modify the list at will



* available as an option

The HOLZMA HPP 300 multiTec at a glance

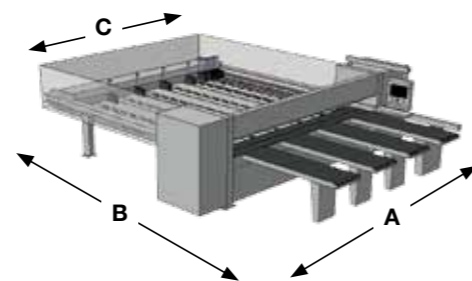
Size, performance, features: the most important technical data for the HPP 300 multiTec can be seen here at a glance. If you would like to know more then simply ask your HOLZMA sales consultant. He will be pleased to give you detailed information.



Technical data*	HPP 300 multiTec
Saw blade projection	80 mm (95 mm as option) 3.2" (3.8" as option)
Cutting length	4300/5600**** mm 170"/220.5" ****
Program fence speed**	90 m/min 295 ft/min
Saw carriage speed	up to 130 m/min (150 m/min as option) up to 426.4 ft/min (492 ft/min as option)
Main saw motor	11 kW (13.5 or 18 kW as option) 15 HP (18.4 or 24.5 HP as option)
Scoring saw motor	1.5 kW (2.2 kW as option) 2 HP (3 HP as option)
Average total air requirement	140 NI/min 4.94 cfm
Compressed air requirement	6 bar 87 psi
Extraction system	4400 m³/h for 4300 mm cutting length, 30-32 m/sec 2589.4 cfm for 170" cutting length, 98.3-105 ft/sec 6000 m³/h for 5600 mm cutting length, 30-32 m/sec 3531 cfm for 220.5" cutting length, 98.3-105 ft/sec
Working height	920 mm 36.2"
Air cushion tables	4/5 x 2160 mm 4/5 x 85"

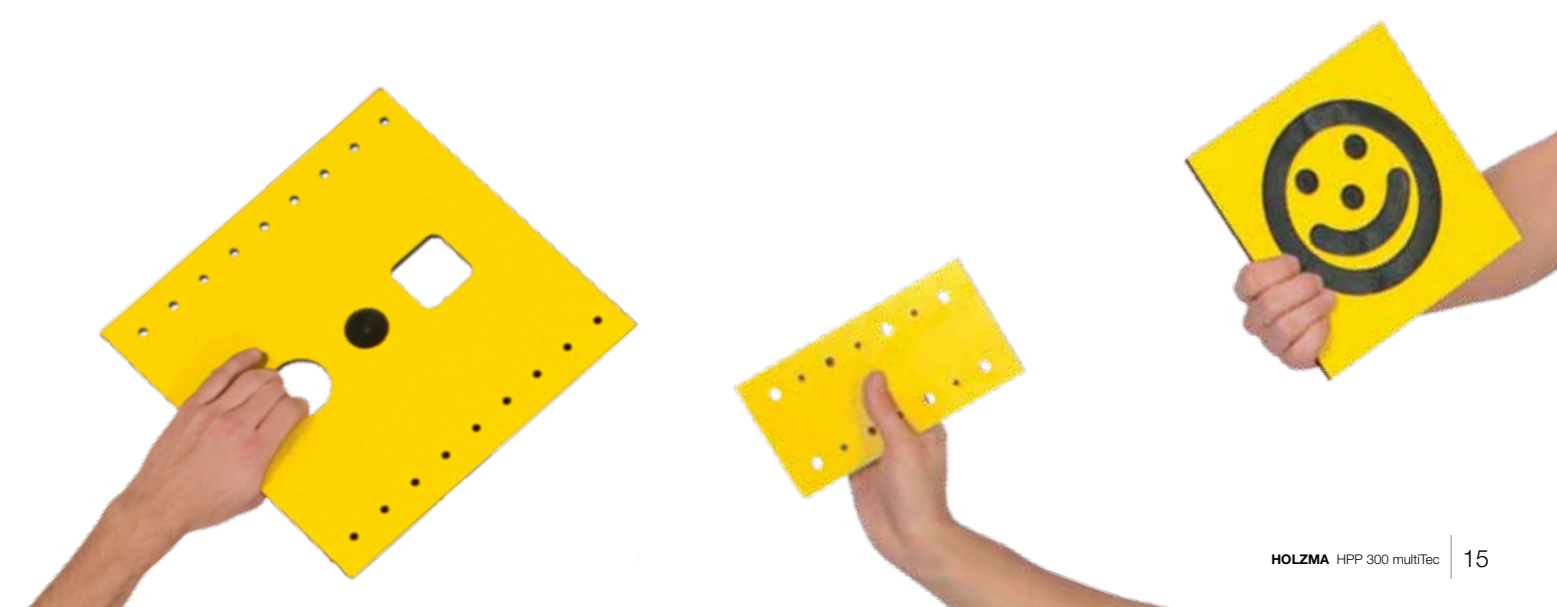
Technical data of the drilling unit	HPP 300 multiTec
Travel speed X axis	45 m/min 147.6 ft/min
Travel speed Z axis	20 m/min 65.6 ft/min
Number of vertical drill spindles	9: 3 in cutting direction, 5 in program fence direction, 1 corner spindle
Drill spindle spacing	32 mm 1.3"
Drill diameter	max. 35 mm, min. 2 mm max. 1.4", min. 0.1"
Panel thickness for drilling (drilling depth depends on tool)	max. 40 mm, min. 6 mm max. 1.6", min. 0.2"
Book height for drilling	max. 30 mm, min. 12 mm max. 1.2", min. 0.5"
Strip width	max. 1600 mm, min. 100 mm max. 63", min. 4"

Machine dimensions***			
HPP 300 multiTec	A	B	C
HPP 300/43/59	6514 mm 256.5"	9417 mm 370.7"	4786 mm 188.4"
HPP 300/56/72	7864 mm 309.6"	10757 mm 423.5"	6136 mm 241.6"



* Values relate to the standard version
 ** In EU countries, Switzerland and Liechtenstein, forward speed is restricted to 25 m/min
 *** Dim. A: incl. 64 mm for extraction connection, dim. C: standard program fence width
 **** Only right-handed version

All dimensions subject to change





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Printed 01/16. Part number: 4-089-70-0218
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