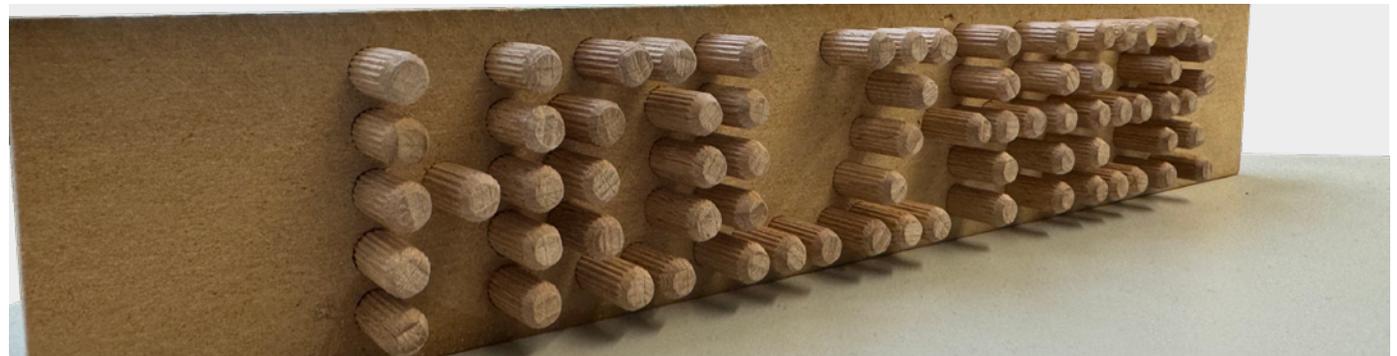


DRILLING AND DOWELLING WITH POWER-PIN





POWER-PIN SERIES

THE IDEAL ADDITION FOR YOUR FURNITURE PRODUCTION



Intuitive clamping concept

Thanks to the intuitive clamping concept using a split pressure beam, workpieces are securely fixed during machining.



Multi-field machining

The flexible clamping situations allow multi-field machining of up to 4 workpieces simultaneously.



VISE LED position indicator

The VISE LED position indicator aids correct workpiece positioning. This allows for quick visual detection of inconsistent gaps (only Dynamic).



Space miracle

With an installation space of only 4 m² and an extremely low overall height of 1,755 mm, the POWER-PIN fits into any workshop.



MACHINE TYPES

In the "classic" version, the pressure bar is set manually to the material thickness, while the "dynamic" version makes these settings fully automatically and program-controlled.

In the "dynamic" version, the drilling depth and the Z-height of the holes are also controlled by servomotors.

Options such as the practical VISE LED position indicator and additional horizontal drills are only available in the dynamic version.



MACHINE TYPES - EQUIPMENT

Everything at a glance

	POWER-PIN 7605 classic	POWER-PIN 7605 dynamic
Machining dimensions in X	60 – 2600 (2 x 1300) mm	
Min. workpiece width	150 mm	
Material thicknesses	12 – 60 mm	
Pressure bar adjustment	Manual	Automatic
Adjustment of drilling unit	Manual	Automatic
1-fold horizontal drilling unit	Standard	
3-fold horizontal drilling unit	x	Optional
Dowel unit ø 8 mm	Standard	
Dowel unit ø 6 mm	Option – requires second stage conveyor	
Glue system - for glue & water	Standard	
Glue system monitoring	Optional	
3-fold vertical drilling unit	Optional	
WISE LED position indicator	x	Optional
Automatic program selection	Optional	



COMPACT DESIGN

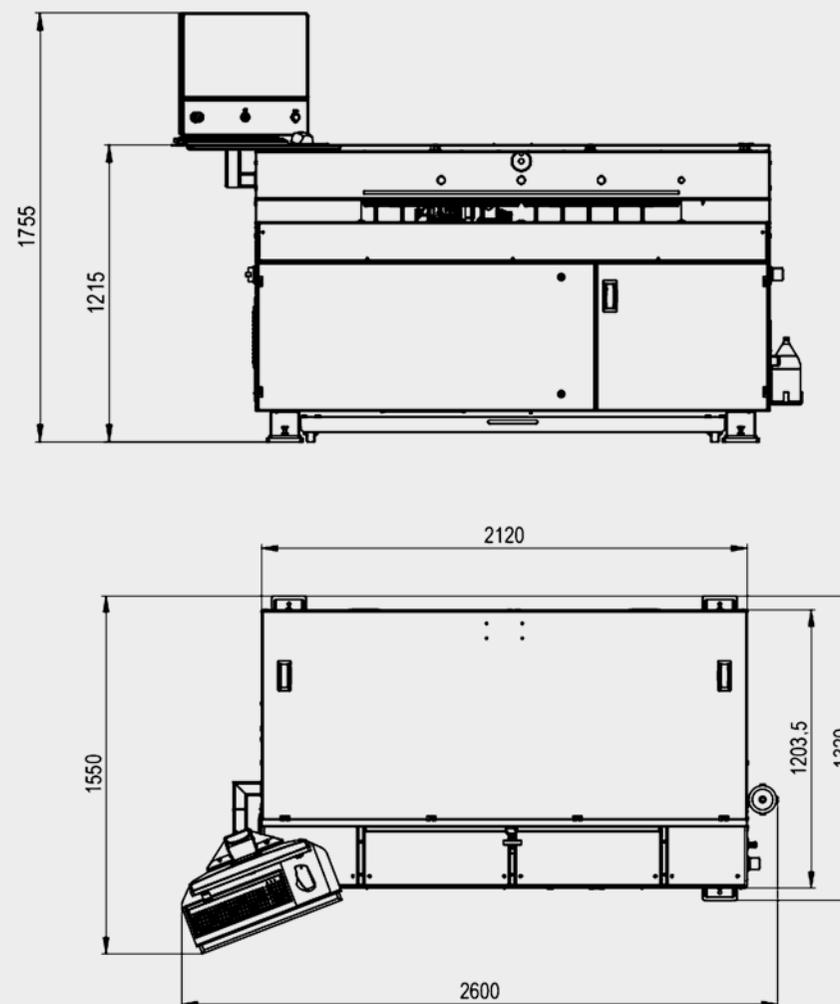
Compact in every respect. All units and storage containers are fully integrated into the machine. With an installation space of only 4 m³ and an extremely low overall height of 1,755 mm* the POWER-PIN fits into any workshop.

In addition, the machine cover provides a practical storage area for workpieces to be produced – at a back-friendly height of 1215 mm.

Whether free-standing in the room or up against a wall, depends completely on your production flow.

All units are easily accessible through the upper maintenance cover for tool changes and maintenance work.

* 2095 mm with open hood

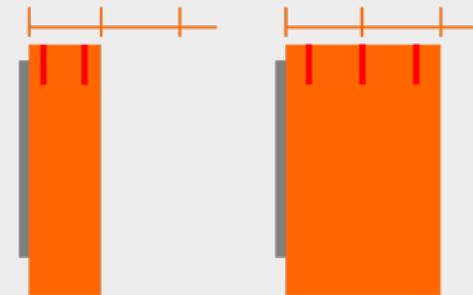


AUTOMATIC PROGRAM SELECTION

Simply clamp the workpiece and get started right away without having to search for the program?

This is possible with the automatic program selection. 5 different widths can be variably stored in fields A and D. When a pre-programmed workpiece width is detected, the appropriate program is automatically loaded.

Ideal for series production of recurring workpiece sizes.



Example with two different components

DOWEL DETAILS

The POWER-PIN can drive both pre-coated dowels and standard wooden dowels with D1 glue (viscosity 150 - 350 mPa.s.).

With the optional second step conveyor, the change from 6 mm to 8 mm dowels can be done in just a few minutes. Workable dowel lengths are 30 mm, 35 mm and 40 mm.

So you are prepared for any situation.



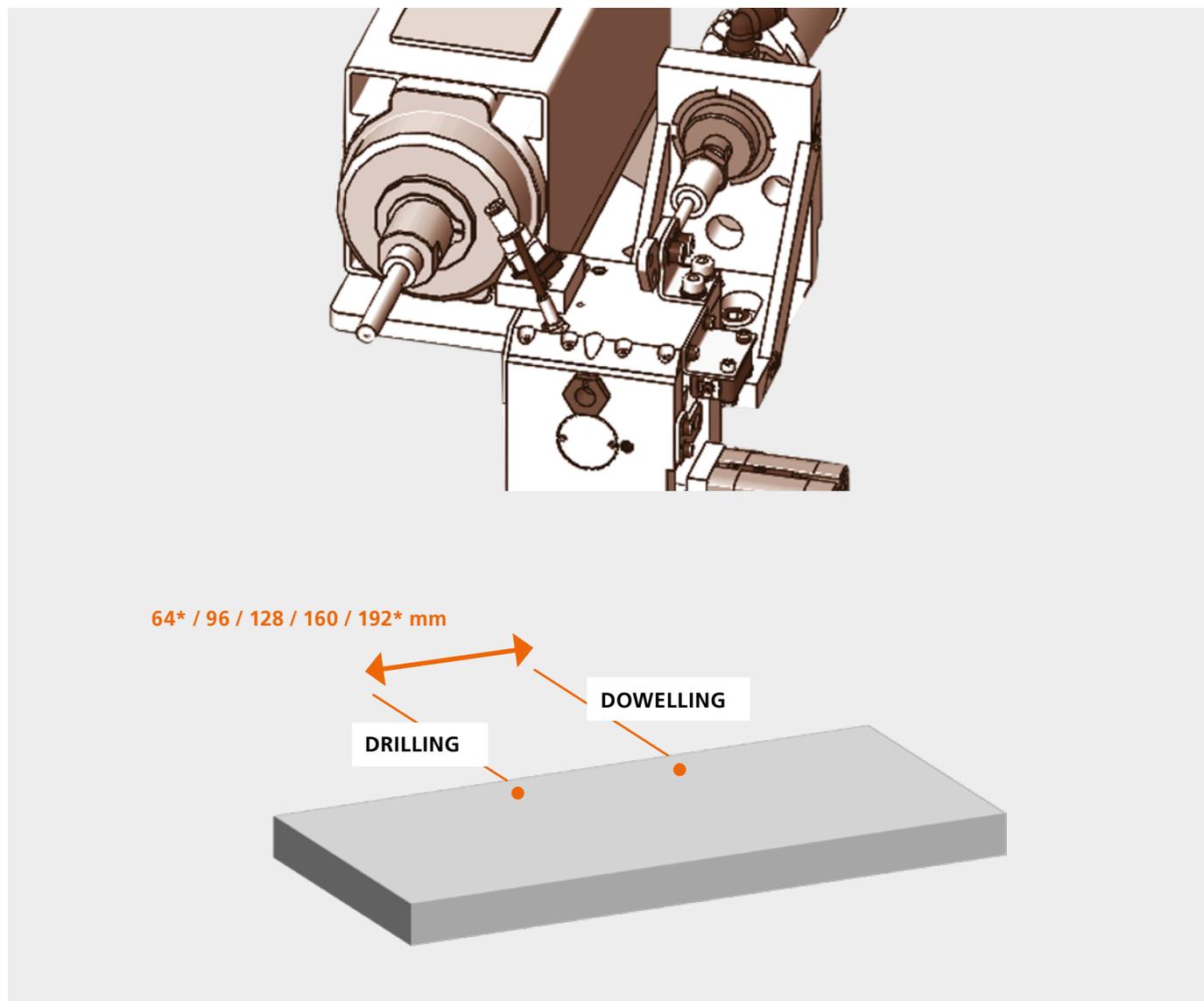
DOWEL UNIT

For short processing cycles thanks to reduced travel distances and simultaneous dowelling and drilling, the dowelling unit can be variably offset in 32 mm increments with the following distances: 64* / 96 / 128 / 160 / 192* mm.

Depending on the number of drill holes and dowels, this can save up to 20 % in time! The software automatically calculates in the background whether simultaneous dowelling and drilling is possible.

The adjustment of the unit in the grid dimension is done manually.

*Only accessible with the 3-fold horizontal drilling unit on the POWER-PIN dynamic.

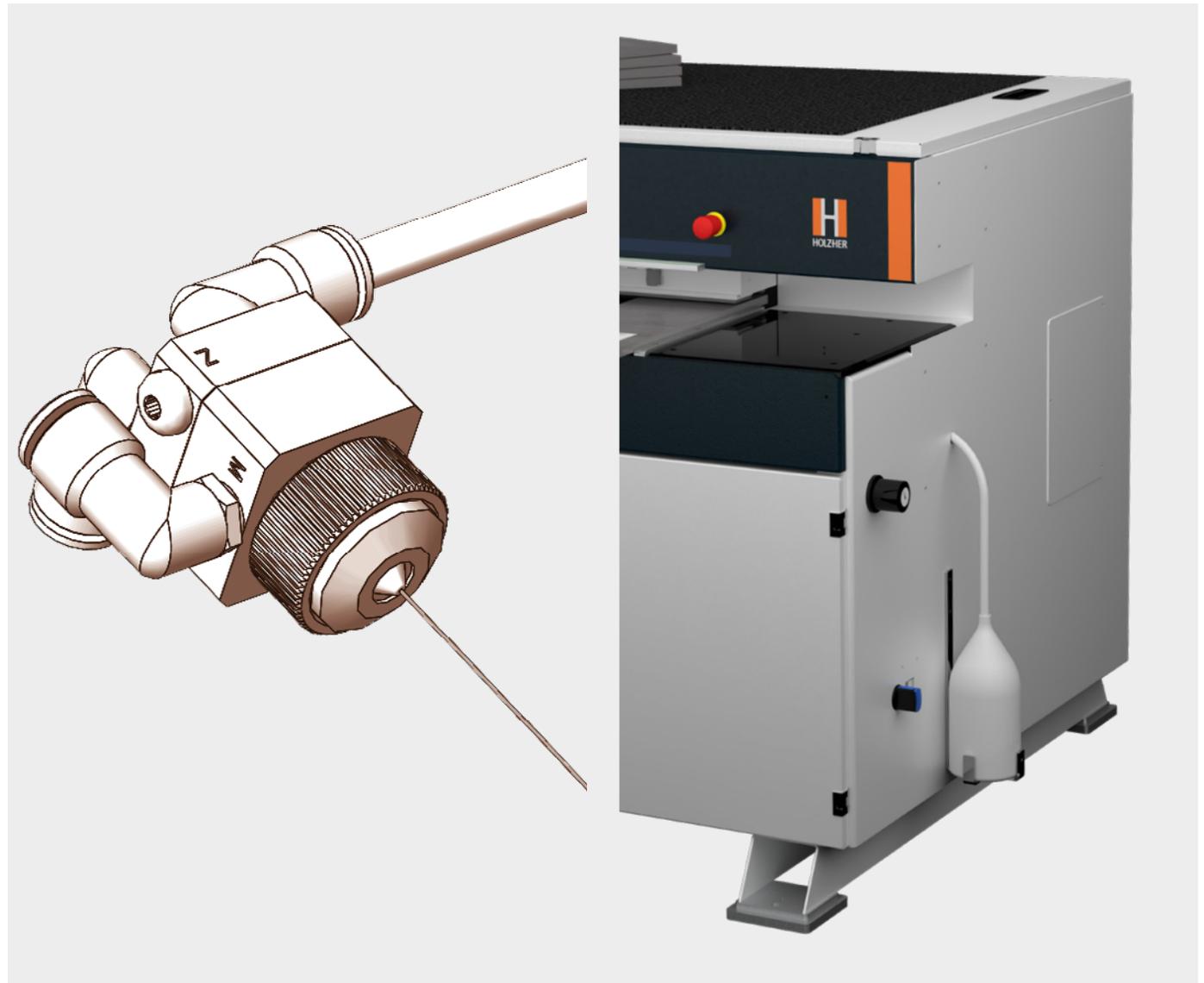


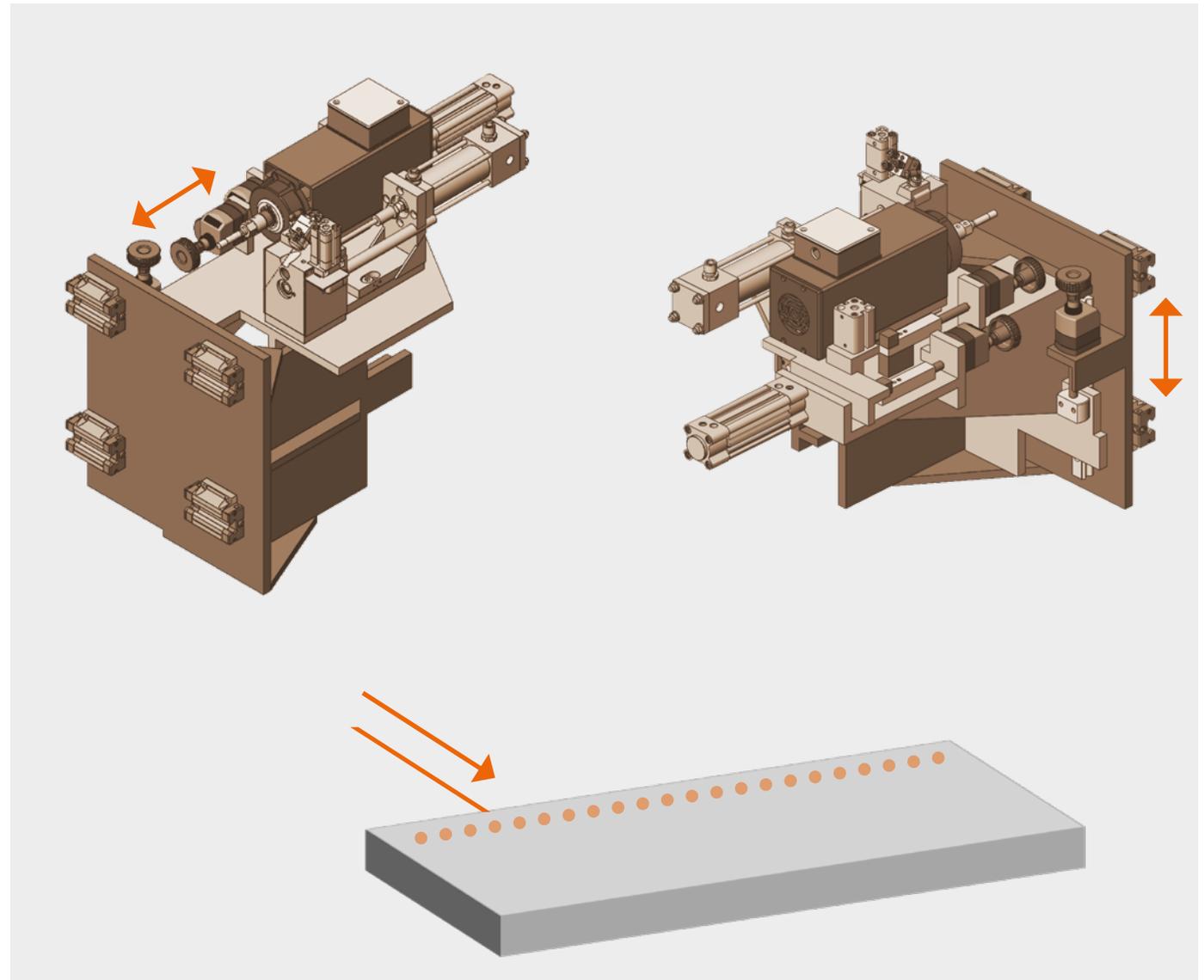
GLUE SYSTEM

With the flexible POWER-PIN glue system, you have the option of working with standard D1 white glue (viscosity 150 – 350 mPa.s.) and natural dowels, as well as with water for pre-coated dowels.

For maximum process reliability, additional electronic monitoring of the nozzle needle can be selected. If no glue has flowed, an error message is displayed and the machine is stopped. This ensures consistent processing quality.

The cleaning of the glue nozzle is fully automatic and program-controlled. To do this, the entire glue system moves to a defined cleaning position and rinses the glue nozzle with water. The cleaning fluid is collected and fed into an external dirty water bottle





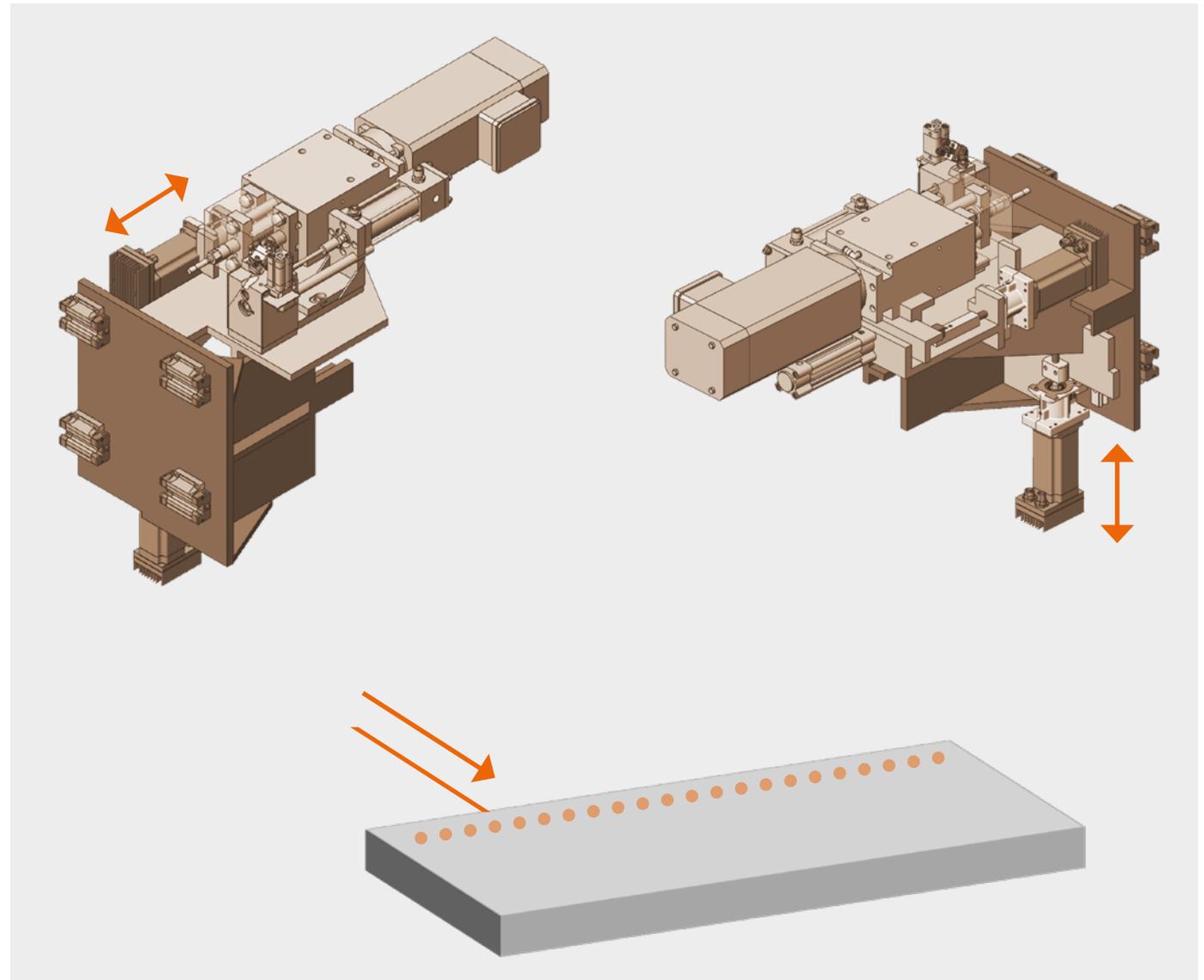
HORIZONTAL DRILLING UNIT

classic

It's in your hands! Drilling depths and the drilling height in relation to the machine table can be set manually using mechanical digital counters.

Up to two different drilling depths can be predefined.

The speed is continuously adjustable from 3000 – 9000 min⁻¹ and is read from the machining program.



HORIZONTAL DRILLING UNIT

dynamic

Fully automatic! Drilling depths and the drilling height in relation to the machine table are read out from the processing program, so no manual adjustment of the unit is necessary.

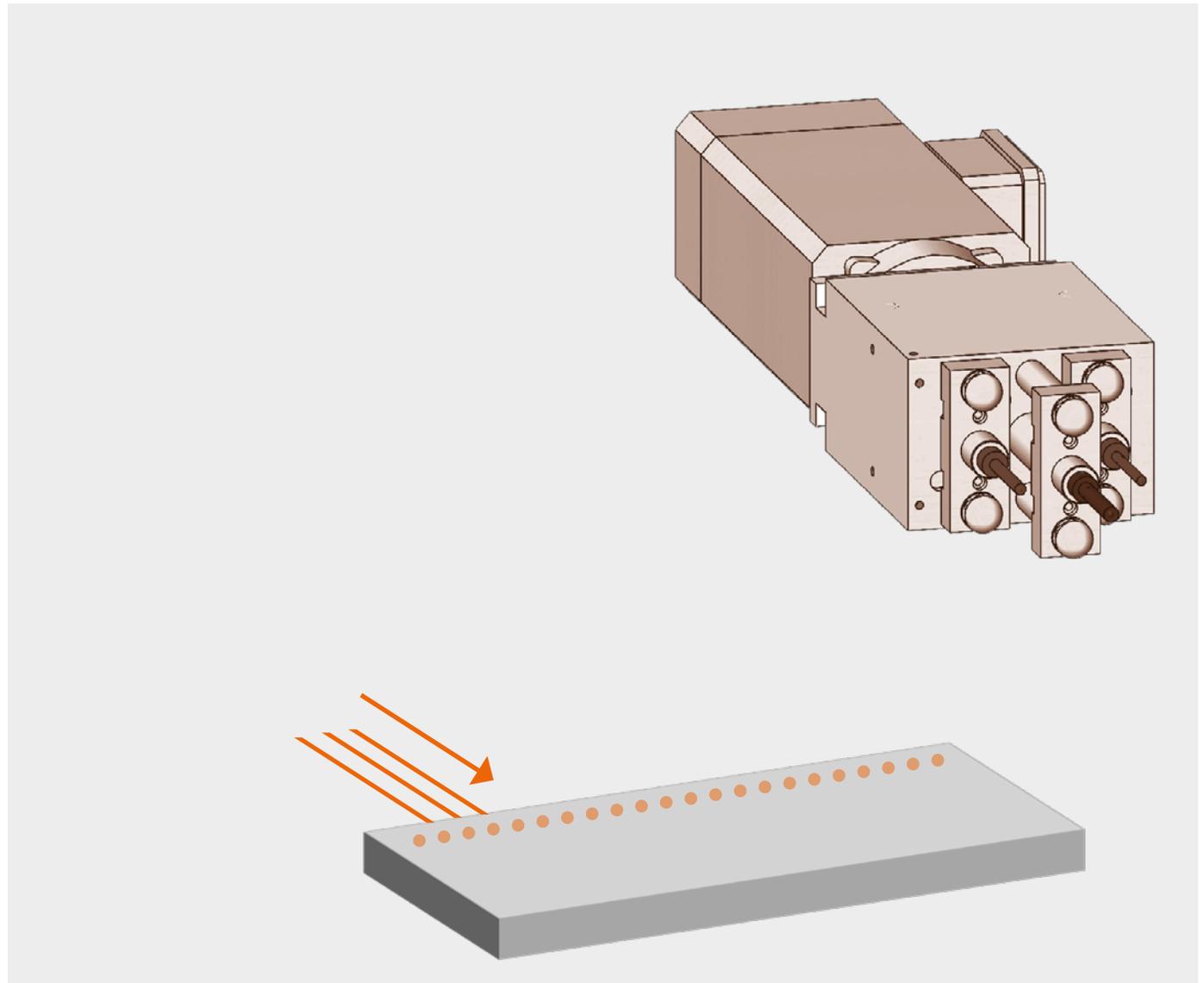
The speed is continuously adjustable from 3000 – 9000 min⁻¹ and is read from the machining program.

HORIZONTAL DRILLING UNIT

dynamic – 3-fold

With the automatic 3-way drilling unit you have maximum flexibility.

Whether for different dowel diameters or different fitting holes, with a continuously adjustable speed of 2750 - 4000 min⁻¹ and individually adjustable drilling spindles in a 32 mm grid, the POWER-PIN is ideally equipped for furniture construction.



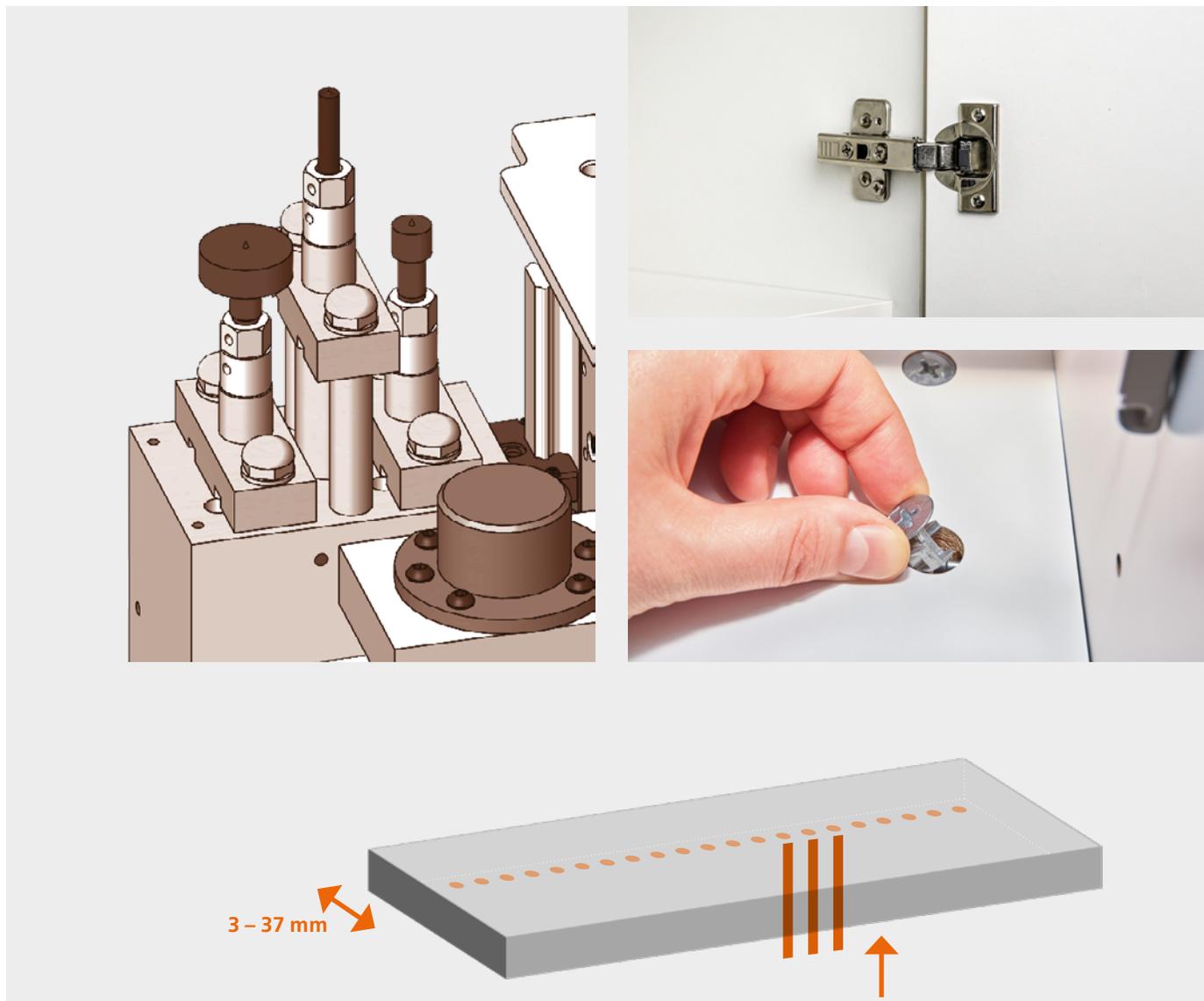
VERTICAL DRILLING UNIT

The program-controlled vertical drilling unit has three individually adjustable drilling spindles.

Thanks to the maximum drill diameter of 35 mm, hinge holes can be drilled very easily. Connector technologies such as Minifix or CABINEO are also covered.

The speed of the drilling unit is continuously adjustable from 2750 – 5500 min⁻¹ and automatically adjusts to the drill diameter.

Clean! Because the machining position is from below, no chips remain on the workpiece.



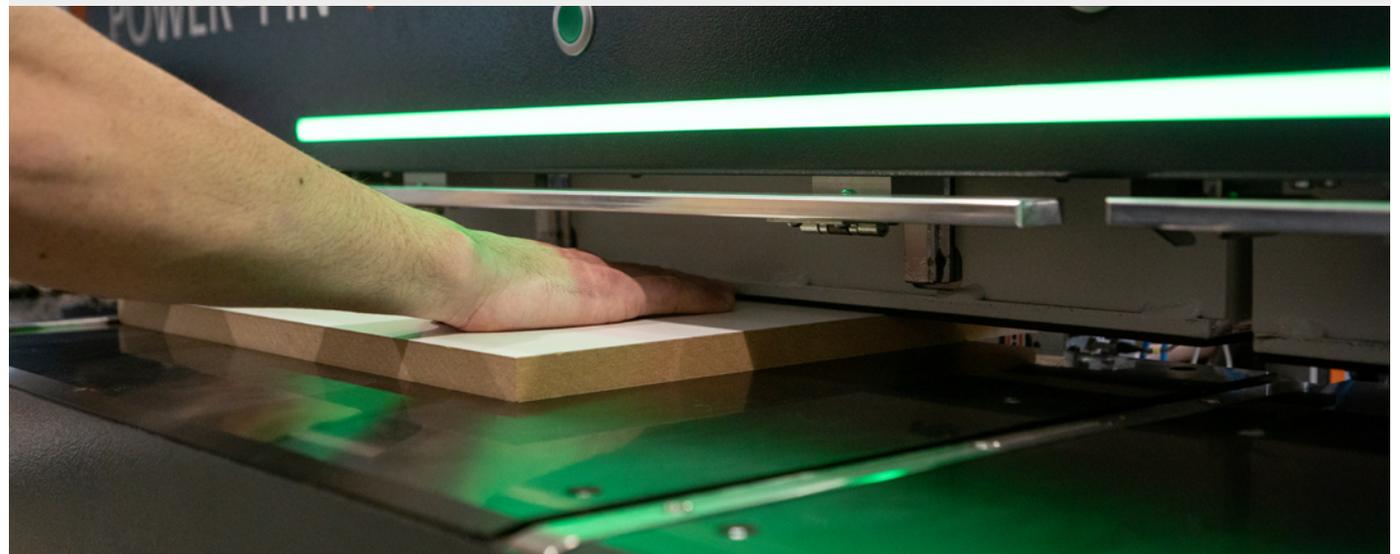


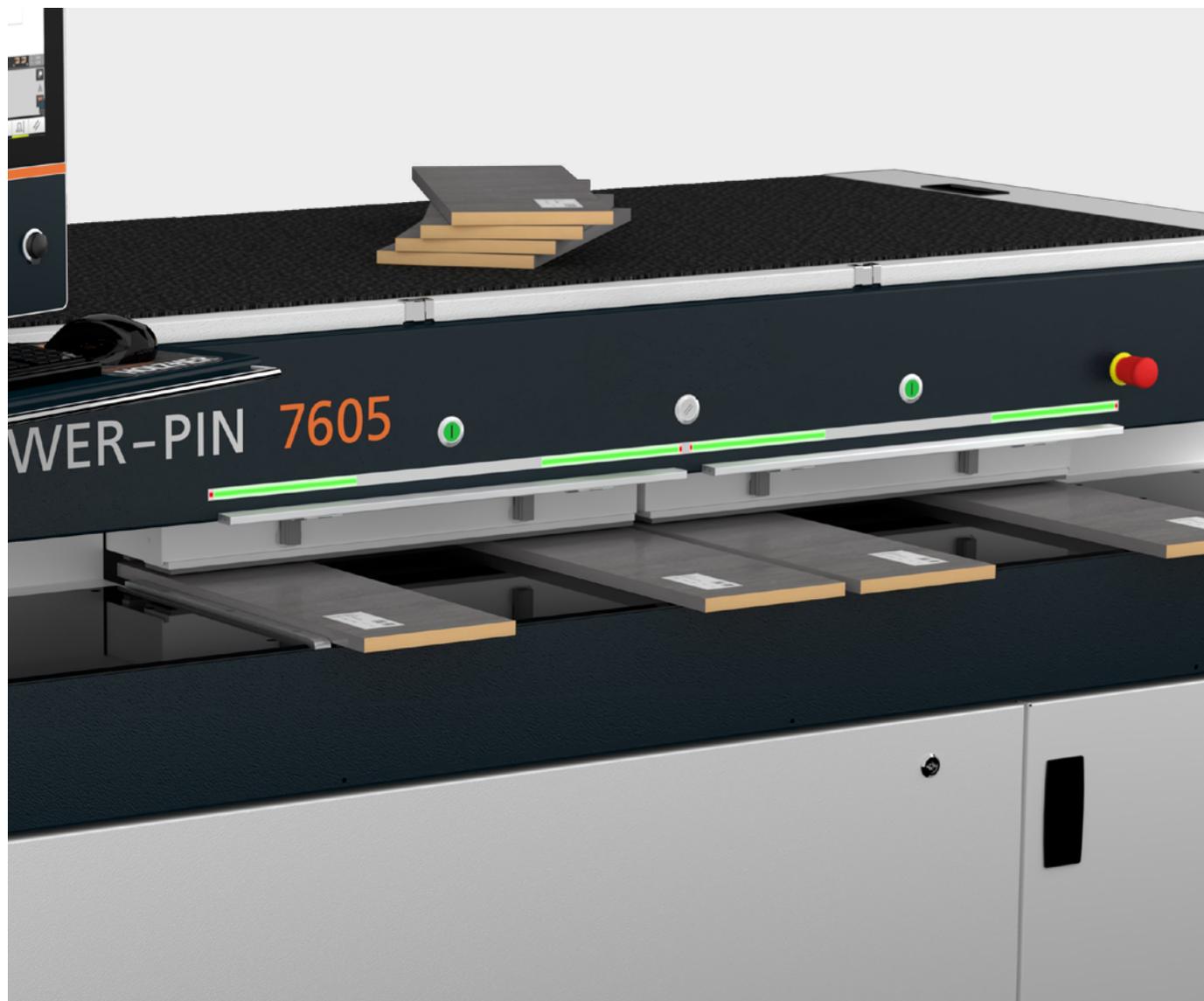
CLAMPING CONCEPT

Intuitive clamping concept Thanks to the intuitive clamping concept using a two-piece pressure beam, workpieces can be fixated securely for processing.

Whether wide or narrow workpieces, no additional adjustment of the clamping beams is necessary. This speeds up production and avoids incorrect clamping.

In addition, the pressure beams act as an intervention guard and thus offer increased safety for the operator.





WISE LED

Using the optional VISE LED position display, workpieces are always placed at the correct stop.

In addition to the workpiece width, the LEDs also show the workpiece zero point. This means that incorrect placement can be quickly identified visually, especially in multi-field operation.

Only available in the dynamic version.

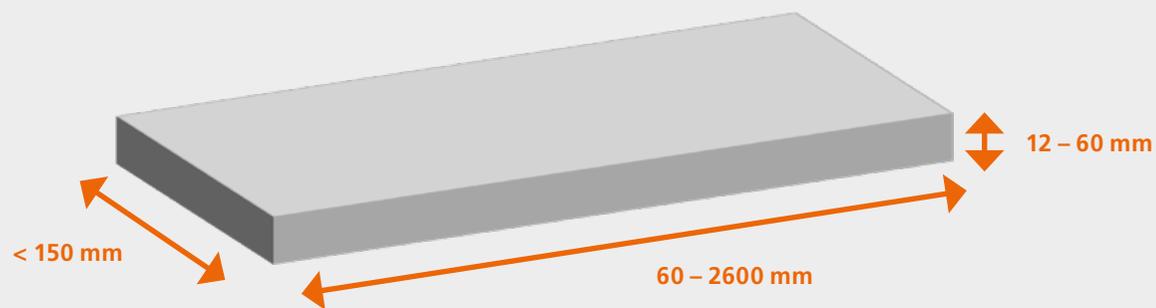


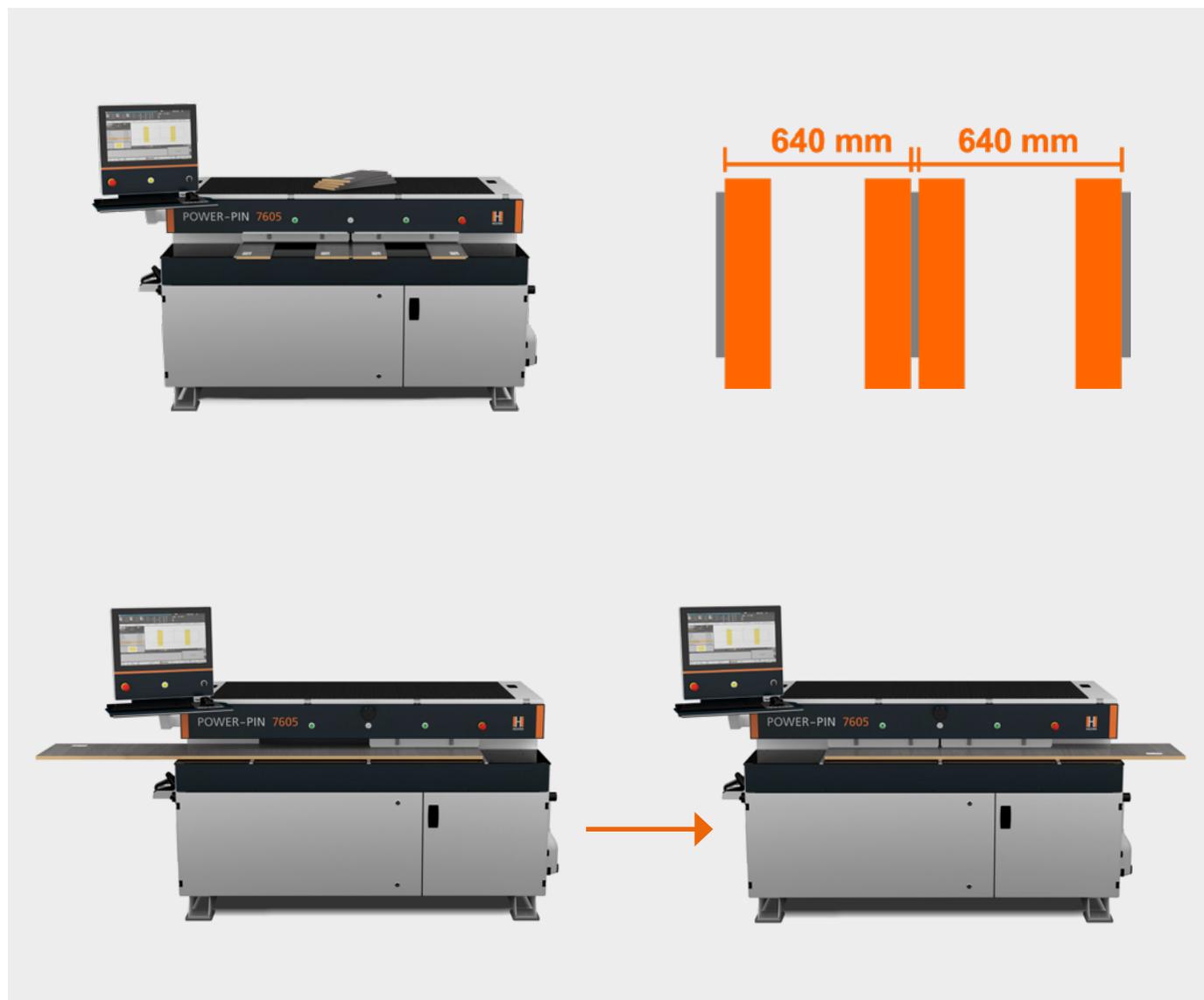
WORKPIECE DIMENSIONS

Whether it's a solid wood drawer or a kitchen worktop, the dowels fit.

Material thicknesses of 12 - 60 mm can already be processed as standard. In the "classic" version, the pressure bar is set manually to the material thickness, while the "dynamic" version makes these settings fully automatically and program-controlled.

For long components (< 1300 mm), several clamping scenes are automatically generated and displayed to the operator on the screen.





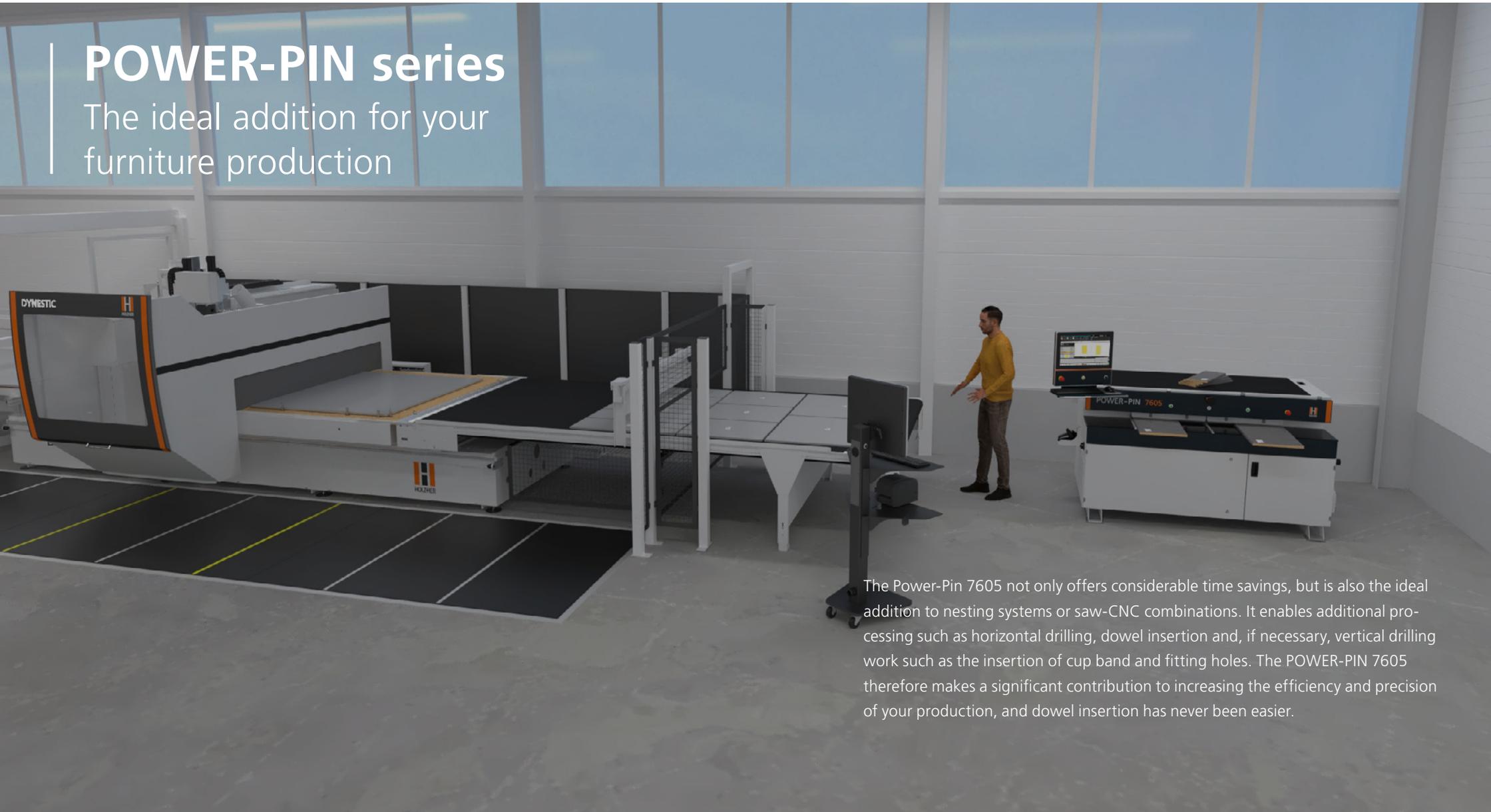
FLEXIBLE CLAMPING SITUATIONS

The stops are activated automatically depending on the component size and processing. This enables multi-field processing of up to 4 components simultaneously.

For long components (< 1300 mm), several clamping scenes are automatically generated and displayed to the operator on the screen.

POWER-PIN series

The ideal addition for your furniture production



The Power-Pin 7605 not only offers considerable time savings, but is also the ideal addition to nesting systems or saw-CNC combinations. It enables additional processing such as horizontal drilling, dowel insertion and, if necessary, vertical drilling work such as the insertion of cup band and fitting holes. The POWER-PIN 7605 therefore makes a significant contribution to increasing the efficiency and precision of your production, and dowel insertion has never been easier.



EXPORT

For advanced data analysis, viaConnector Edge lets you export your collected data as a CSV file for transfer to ERP or SQL databases at the touch of a button.



VIACOCKPIT – HOLZ-HER MACHINE MONITORING

Full transparency for your future workshop

Productivity shown transparently on the master computer and also on your mobile device, monitor and analyze at anytime.

The WEINIG App-Suite and viaCockpit offer you the possibility to always keep an eye on your production flow and material management. The system enables the monitoring and evaluation of order data, increases production reliability through maintenance instructions and optimises production. Thanks to open interfaces, the system is future-proof and can be seamlessly integrated into existing IT landscapes.



viaMonitor For monitoring and evaluation



viaNotify Reports possible errors



via Order Provides an overview of the order progress



viaMaintain Informed when maintenance is due



viaCondition Optimises machine usage



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