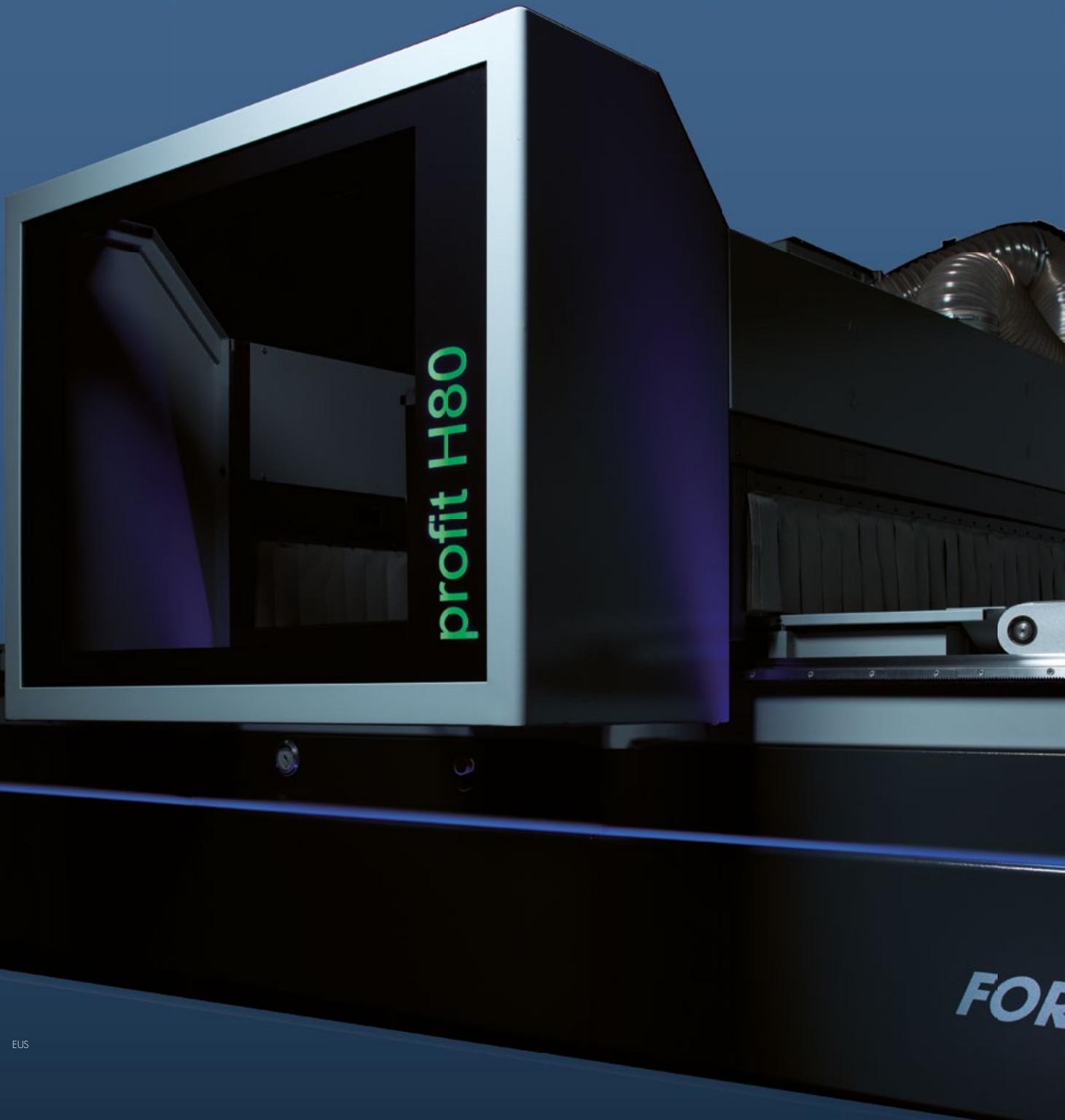


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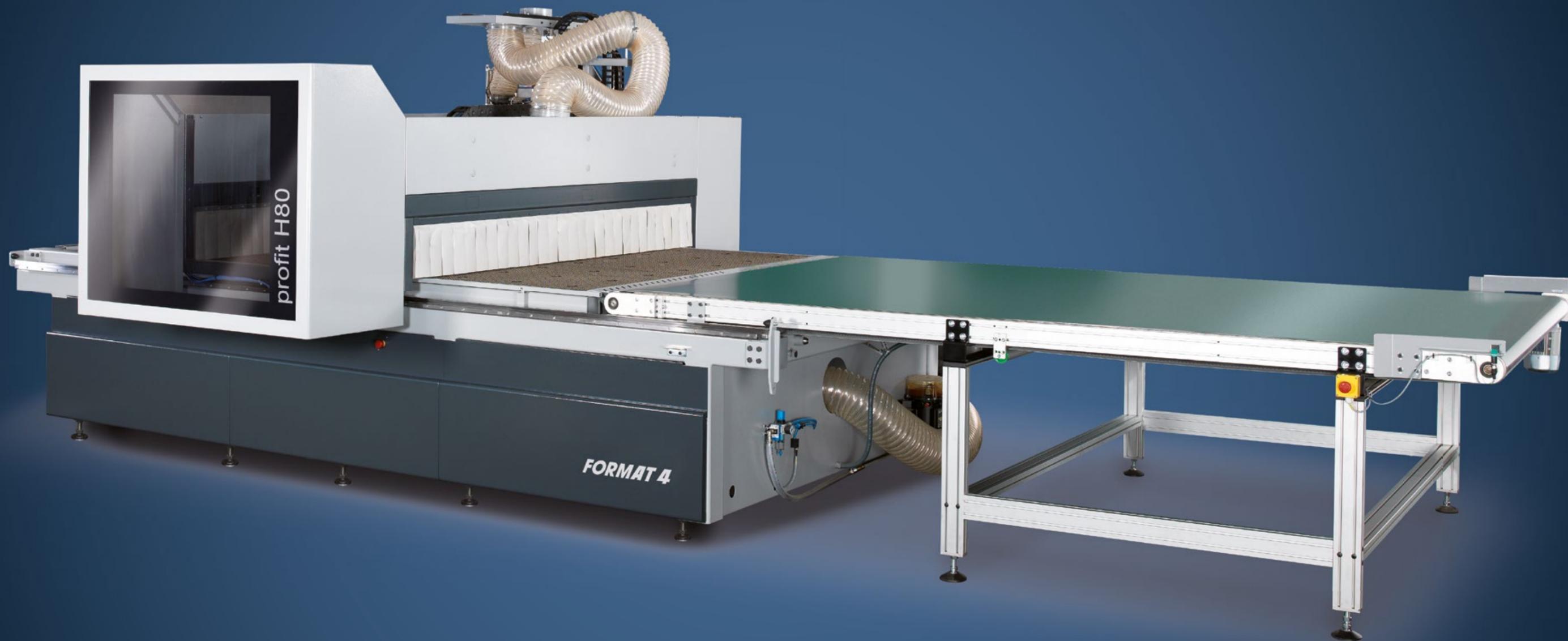
profit H80I

4.0 FURNITURE PRODUCTION
STARTS NOW



FOR

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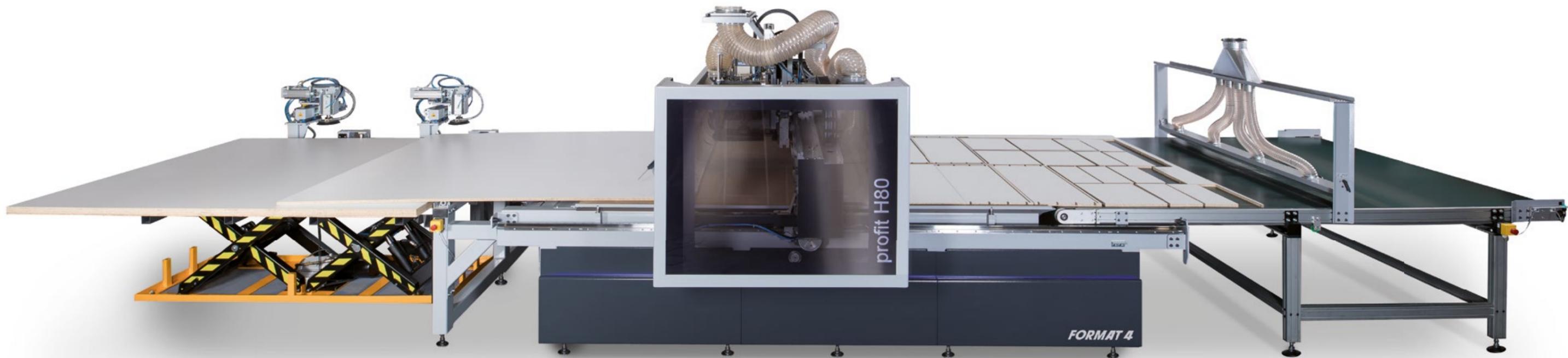
4.0 Furniture production starts now

profit H80I

- » Intelligent vacuum management system "SMART ZONING" for all machine sizes
- » Adequate and interpolating C axis
- » Unit insert with compressed air interface for limitless use of the machine
- » Numerous automation options for loading, aligning, unloading and labelling
- » Optimisation options for perfect extraction results: Central suction hood, height-adjustable suction hood, under-table and above-table extraction as well as a small special extraction hood
- » F4Solutions^{ready}

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F4Solutions generates a consistent, efficient and profitable production process around the piece of furniture. The software tools for maximum productivity accompany you through the entire production chain. Easiest design of individual pieces of furniture in the familiar CAD environment. Photorealistic rendering of sales assisting 3D visualizations. Detailed data transfer to all integrated machines with economic nesting optimization. Even the final assembly is accompanied by clear, detailed drawings and 3D data - that's 4.0 for trade and industry.



For profit-making efficiency.
For individual furniture production.
For industrial demands.

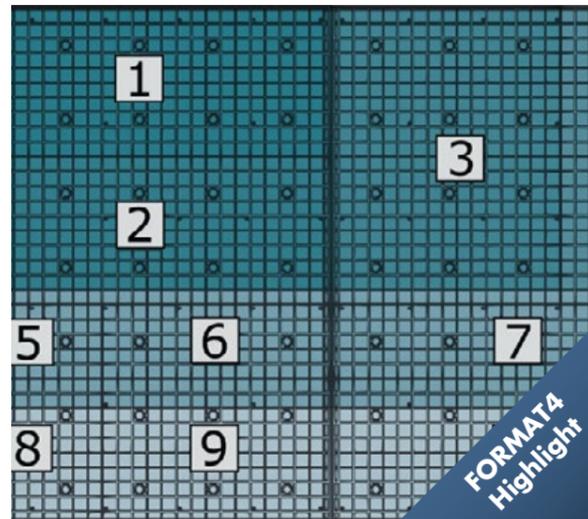
The Format4 profit H80I CNC machining centre at the heart of a smart F4Solutions production process is the only response to the question about the future of profitable furniture production.

As a panel cutting, drilling and milling system with an interpolating C-axis, the profit H80I brings highly efficient 4.0 furniture production to future-proof cabinetmakers and carpenters' workshops. A completely custom-made piece of furniture, with all its holes, grooves and joints, can be produced in one single operation at the click of a mouse. The latest nesting technologies ensure the best possible savings in terms of materials and time. The Format4 profit H80I can be extended to full automation with different loading and unloading solutions, thus achieving maximum material processing rates.

FORMAT4 Premium Machines for Premium Requirements

- » Customer specific optimised production solutions
- » Solid design with premium components
- » Wide range of configuration packages with high-tech solutions
- » Complete engineering precision
- » Premium user comfort
- » Award winning design
- » Quality and precision from AUSTRIA
- » Uncompromising productivity
- » Perfect service package before, during and after the purchase
- » Automation solutions
- » Networked workshop
- » Machines and software from one supplier
- » Tailor made financing solutions

The most important highlights at a glance



Smart Zoning

Smart Zoning enables fast processing of several common panel sizes. The fast transition from one panel size to another increases productivity.



Individual automation options

Whether as a standalone machine or fully automated cell, the profit H80 offers different automation options for maximum efficiency and shortest cycle times.



Extraction bell

The extraction bell optimises the suction results and reduces the required extraction volume due to its compact design.

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Details



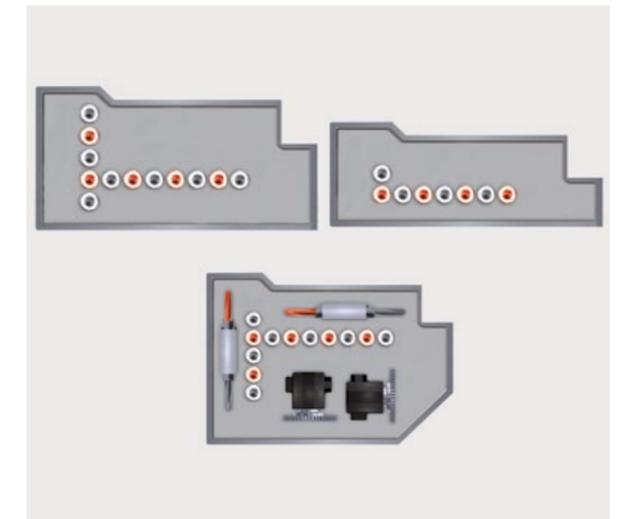
Spindle

With a motor power of 10 and 12 kW (depending on the series) and up to 24,000 rpm, the milling motor is controlled using an inverter and is attached directly to the support module of the drilling head in the Z axis. Dual linear guides guarantee highly precise vertical guiding. The main motor is positioned using ground ball screws. The HSK F63 tool clamping is done automatically. The clamping of the tool is checked using sensors, which then confirm that it is safe to start the operation. The tool holder is cleaned automatically. The C-axis is available as the fourth axis and is interpolating (360°) with a compressed air interface for aggregates as standard.



The C-axis

The C-axis is optionally available as the fourth axis and is interpolating (360°) with a compressed air interface for the units.



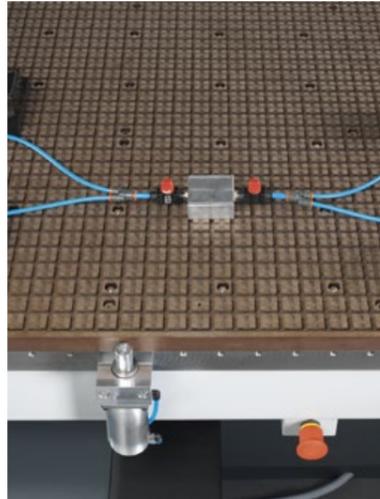
Individual drill head configuration

Regardless of whether the machine will only be used for cabinet manufacturing or as an all-rounder, you can decide which drilling head configuration is the right one for you. Choose between, a drilling head with only vertical spindles or one with spindles and a grooving saw for vertical and horizontal processing. Inverter driven motor up to 7,500 rpm.



Automatic measuring system of the tool length

Parametrising your tools made easy: Each tool length in the database is provided with an accuracy of a hundredth of a millimetre.



Vacuum pods

The phenolic resin table also enables the use of vacuum block pods. This gives the machine a whole new character and increases the variability considerably.



5-colour status display

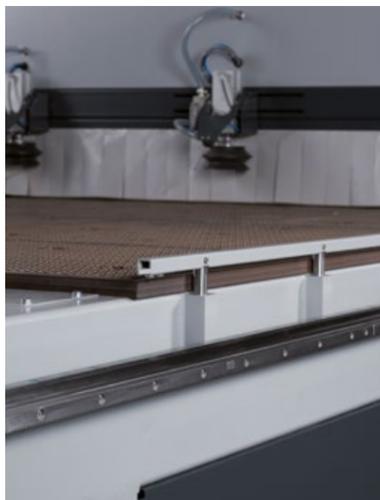
The changing colours of the innovative lighting system display the various machine statuses. This makes it possible to keep up-to-date on the current status of your profit CNC Machining Centre.

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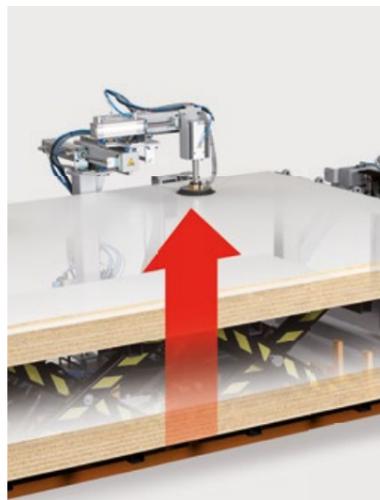
Height adjustable tool changer including cover

The adjustable linear tool changer including cover on the machine base-frame optimally protects the tool-receiving socket against chips and dust, ensures shortest change-over times and can accommodate up to 12 tools and 3 units.



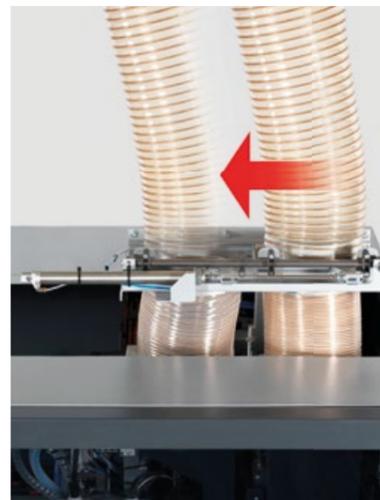
Fence options

The stops can be built on the front or rear upon request. This ensures maximum operating comfort and additional flexibility when processing workpieces. On automatic machines the continuous fences ensures a steady off load on to the conveyor belt.



Panel lifting table

At automatic loading, the lifting table positions the stack of panels directly to the appropriate working height. The alignment of the panel materials takes place directly on the lifting table and synchronously for processing on the working area. This saves time and increases productivity.



Position controlled extraction connection

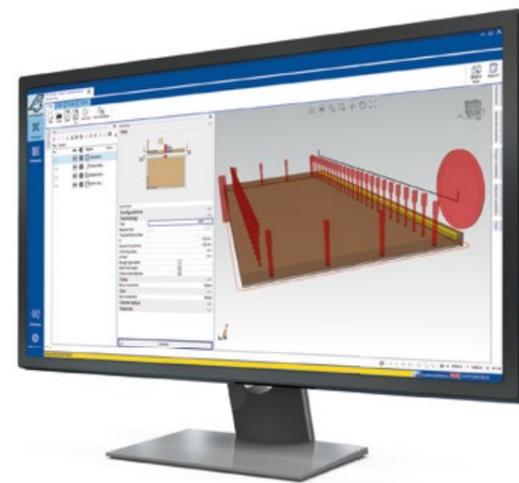
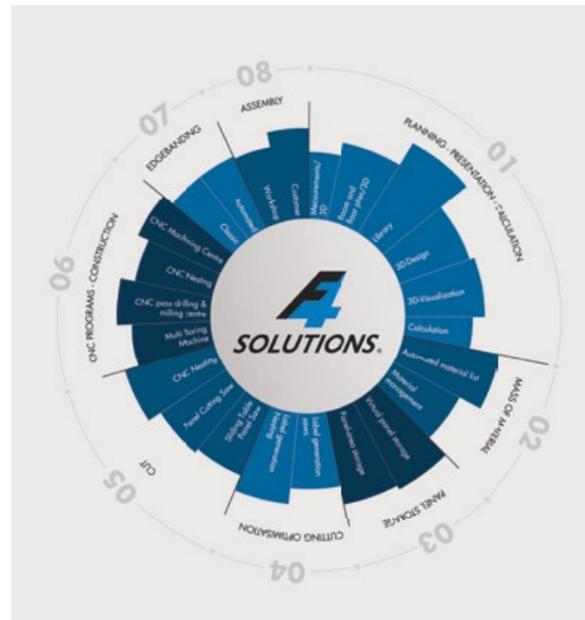
With the automatic control of the extraction connection, the full extraction capacity is moved between the drilling head and main spindle, depending on what is being used at the time. Efficient extraction results guaranteed.



Perfect nesting with the Format4 matrix table

The nesting table with optimal matrix geometry enables the full panel support of workpieces of any size and design, guaranteeing exact positioning.

High flow table: an upgrade to a grid pattern of 1 3/16 in x 1 3/16 in (30 x 30 mm) is available for best possible hold down effects for all sorts of workpiece shapes and sizes (especially for smaller workpieces). The vacuum table is made out of phenolic resin, which has the benefit of being non-corrosive and is not affected by heat or cold (expansion and contraction). Accurate precision is guaranteed.



F4®Solutions, the integrated software solution for the cabinetmaker

F4®Solutions generates a consistent, efficient and profitable production process around the piece of furniture. The software tools for maximum productivity accompany you through the entire production chain. Easiest design of individual pieces of furniture in the familiar CAD environment. Photorealistic rendering of sales assisting 3D visualizations. Detailed data transfer to all integrated machines with economic nesting optimization. Even the final assembly is accompanied by clear, detailed drawings and 3D data - that's 4.0 for trade and industry. Watch our videos to learn all you need to know about Handwerk 4.0 and Industrie 4.0.

F4®Integrate: The pioneering CNC software

For the highest demands, all inclusive - tool library, programming section and an operator control panel on the machine with a consistent and intuitive user interface. F4®Integrate is a software developed by Format4® Developed from practical experience for practical use in cooperation with our CNC customers, F4®Integrate meets the highest demands in modern CNC machining.

Enjoy the comfort of a state-of-the-art and well-coordinated user interface. Tool library (F4Toolbox), programming section (CAM area with integrated CAD area, F4Create) and machine operation control (F4Operate) all packed into just one single screen, with a consistent and intuitive user interface.

F4Integrate is based on G-Code, so external industry programs can be easily connected and the transfer of programs smoothly organised.

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Under-table extraction

Final chips are completely extracted by the under-table extraction between conveyor belt and worktable.



Upper table extraction on the conveyor belt

The upper table extraction on the conveyor belt cleans the workpieces on the surface during transport. This guarantees that the labels will remain in place on the dust free surface.



Labelling

The labelling system facilitates the work steps and guarantees absolute process reliability.



Simply convenient: maintenance door for mortising unit

The maintenance door on the rear of the hood makes the mortising unit easy quickly and ergonomically accessible.



Short out-feed table

Thanks to its small footprint, the short out-feed table simplifies the removal of workpieces. An optional labelling unit can then be used to label the workpieces directly at the point of removal so that they can be identified in subsequent production processes.



Additional units for every use

The standardized use of aggregates enables virtually unlimited application possibilities. With the already integrated compressed air interface with blow-off and cooling function even the most custom-built units are compatible for special applications.

Product range

Sliding Table Panel Saws					
Spindle Moulders					
Planer					
Edgebanders					
Wide Belt Sanding Machines					
Brushing Machine					
CNC machining centres					
Nesting-CNC Machining Centres					
Industrial Panel Saws					
Vacuum panel lifter					
Return systems					
Feeding Units					

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FORMAT4 Uncompromising expertise for the highest of requirements

The Felder Group premium brand has met the highest standards of professional users since 2001.

The customised high-performance solutions are uncompromisingly innovative, offer maximum operating comfort and complete productivity.

FELDER GROUP

KR-Felder-Straße 1
A-6060 HALL in Tirol

🇬🇧 Tel. 01908 635000

www.format-4.uk

[Contact](#)

🇮🇪 Tel. 0906625756

www.format-4.ie

[Contact](#)

🇮🇳 Tel. 1800 274 3040

www.format-4.in

[Contact](#)

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