

FORMAT 4®

profit H150

5-axis nesting for
4.0 furniture production



FORMAT 4[®]



5-axis nesting for 4.0 furniture production

profit H150

- » Powerful moulding spindle with 5 axes for unlimited processing possibilities
- » Intelligent SMART ZONING vacuum management system with pendulum operation
- » Four sizes for every workshop: 16.38, 22.32, 22.43 and 22.61
- » **Recessed fence row for unrestricted machining of individual workpieces with a 3-4 or 5-axis spindle**
- » Large Z passage size of 200 mm offers flexible machining of high workpieces
- » Loading and unloading units and with automatic labelling on the loading table
- » Up to 36 tool slots
- » **F4[®]Solutions^{ready}**



The new Nesting CNC profit H150 from Format4 is the perfect panel cutting, drilling, and milling center for future-proof carpentry and joinery shops. Entire custom-made furniture with all holes, grooves and connections are produced in one single operation. The latest nesting technologies ensure the highest possible material and time savings. Thanks to various loading and unloading solutions, the Format4 profit H150 can be upgraded to full automation, thus achieving maximum productivity.

Available in four sizes (16.38, 22.32, 22.43 & 22.61) with integrated SMART ZONING vacuum management, high-end automation levels, above-average drill heads, new safety concepts, and much more. The powerful Format4 high-tech 5-axis spindle was developed especially for the increased demands of professional woodworking and enables individual workpiece design in record time. For the unrestricted use of the 5-axis spindle, a recessed series of fence rows is available. A large Z passage size of 200 mm offers flexible machining of high workpieces.

FORMAT4 Premium Machines for Premium Requirements

- » Constantly high performance in industrial continuous operation
- » 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
- » Quality and precision from AUSTRIA
- » Uncompromising productivity
- » Perfect service package before, during and after the purchase
- » Tailor made financing solutions
- » Mechanical engineering experience since 1956

The most important highlights at a glance



FORMAT4 Highlight

The main spindle: 5 axes – no restrictions

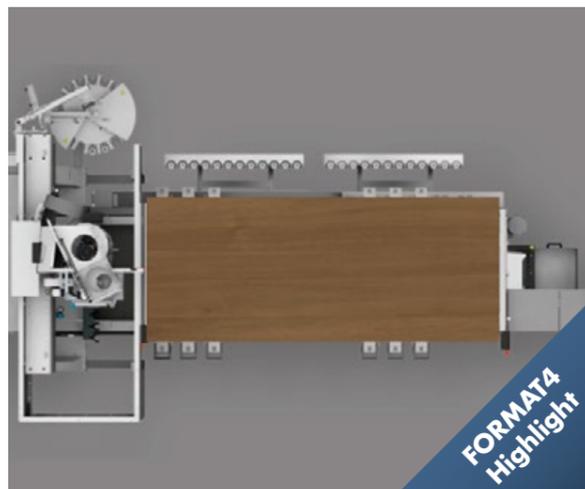
The high performance 5 axes spindle with 12 or optionally 15 kW motor guarantees excellent results when milling, drilling and cutting at every angle. The special liquid cooling and high quality ceramic bearings ensure durable precision and processing smoothness of every material. An inverter regulates the speed up to 24,000 rpm.



FORMAT4 Highlight

Automation solutions

The CNC machining centre can be extended to full automation with different loading and unloading solutions, thus achieving maximum productivity.



FORMAT4 Highlight

Free Working Area due to Hood Park Positioning

If the hood is in parking position, the entire working area is freely accessible. The machine operator therefore has no operational restrictions during workpiece positioning.

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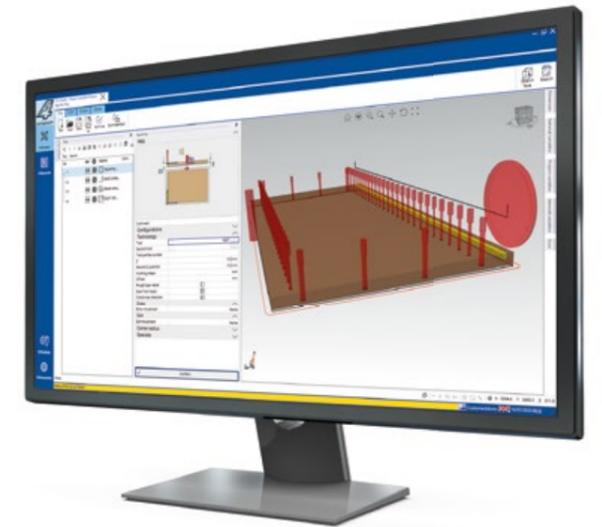
Details

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.

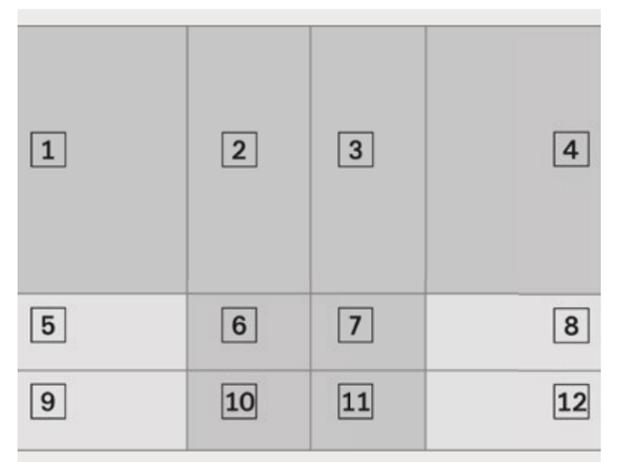
Enjoy the comfort of a state-of-the-art and well-coordinated user interface. Tool library (F4Toolbox), programming section (CAM area with integrated CAD area, F4Create) and machine operation control (F4Operate) all packed into just one single screen, with a consistent and intuitive user interface.

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



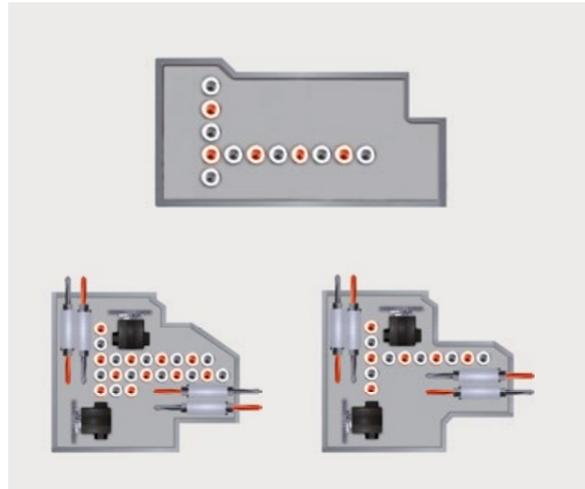
Automatic measuring system of the tool length

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



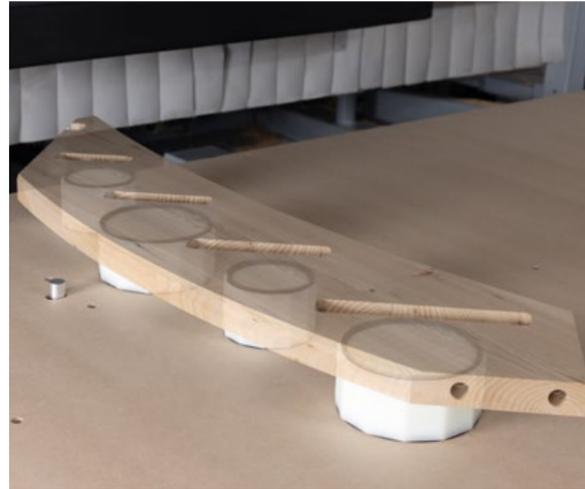
Smart Zoning

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



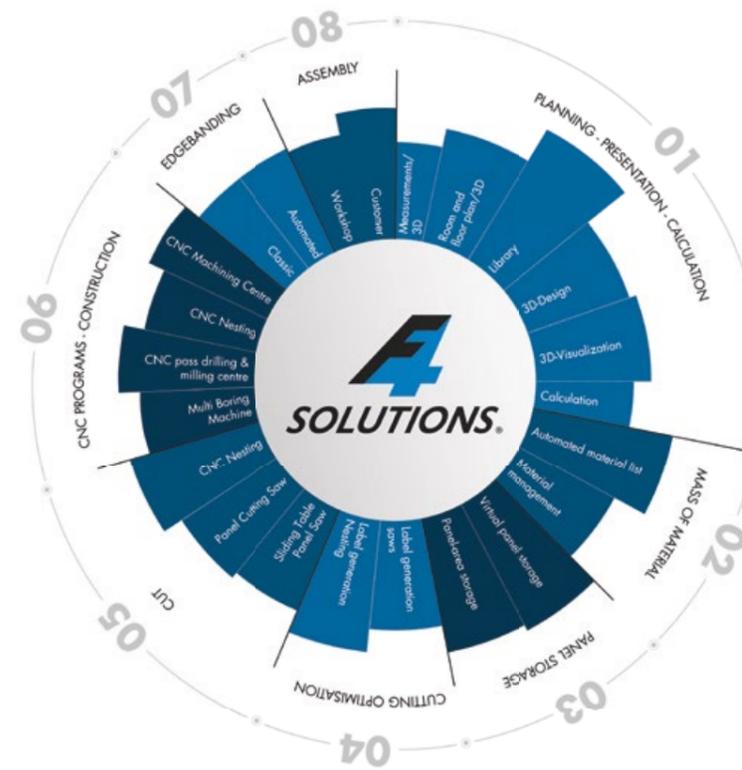
Individual drill head configuration

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.



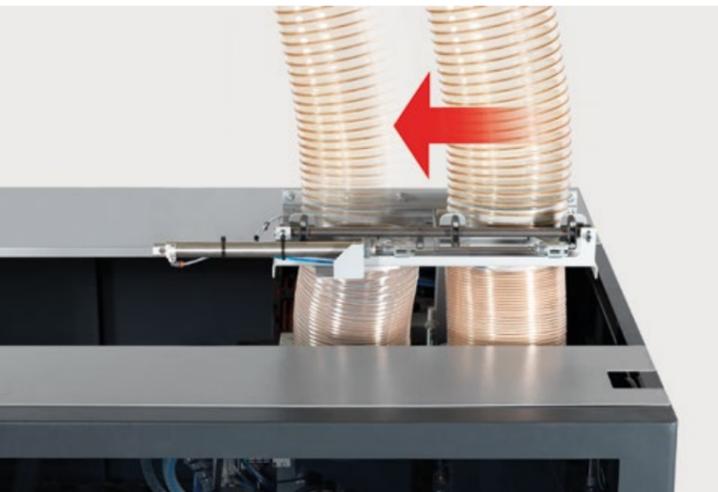
Vacuum pods

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.



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.



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.



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.



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.



Under-table extraction

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



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.



Performance Control

With the performance package, the CNC control makes the highest industry standard possible. Different optimisation levels ensure shorter process times, different milling results and increased comfort in CNC machining.

- » Increase of the maximum axis speeds by up to 30% in the X and Y directions.
- » Optimisation of positioning and rotation speeds by up to 80%
- » "Multitouch" function on the control terminal for user-friendly CNC machine operation
- » Smooth, consistent and steady tool movements for best surface results on the finished workpiece.
- » Reduced vibration behaviour during CNC machining via the built-in jerk control



Automatic labelling

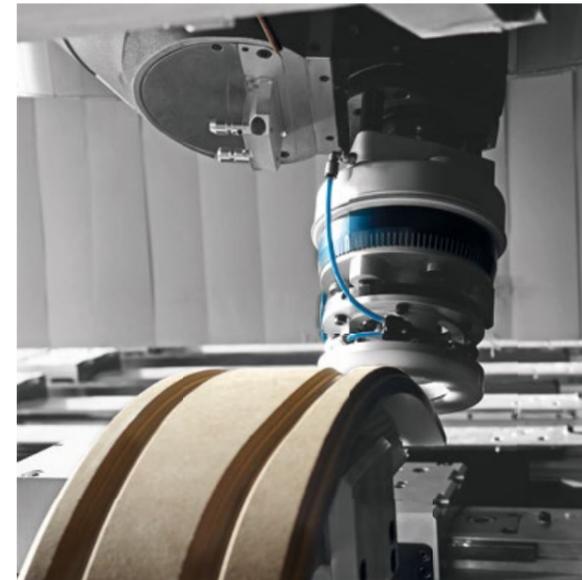
The labeling system facilitates the work steps and guarantees absolute process reliability. The automatic pre-labelling on the loading table minimizes sources of error and at the same time reduces the processing times.

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Cover for linear tool changer

The cover optimally protects the high-precision HSK tool adaptors from dust and/or chips. Uneven running of the spindle due to dirt can therefore be excluded.



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.



Maintenance opening

For quick access to change the drill or maintenance work, the hood can be easily opened on all CNC machining centers.



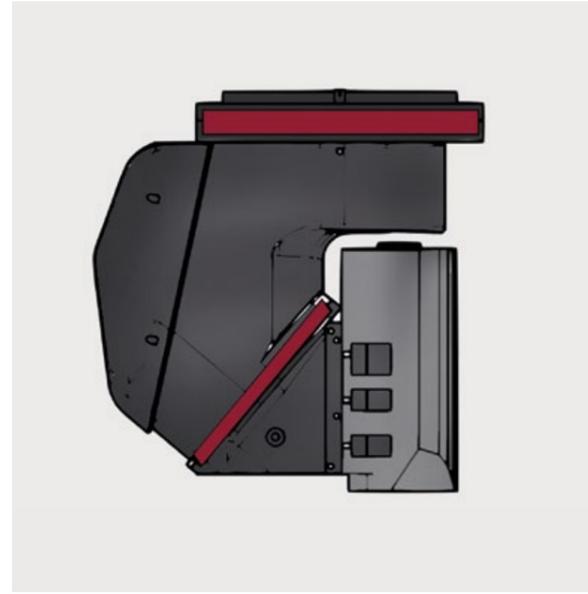
Individual automation options

The automatic labelling unit places the component labels in the correct position even before processing. This reduces sources of error and eliminates the need for additional work for the machine operator once processing has been completed.



Variable position controlled extraction hood

The extraction hood adjusts itself fully automatically to the workpiece height which significantly reduces the dust and noise emissions.



Mechanical Axis Lock System

The mechanical locking of the C and A axes increases the service life of the spindle and at the same time improves the surface finish of the finished component.



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.

Product range

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

FORMAT 4®

FORMAT4 Uncompromising expertise for the highest 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.

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