

FORMAT 4®

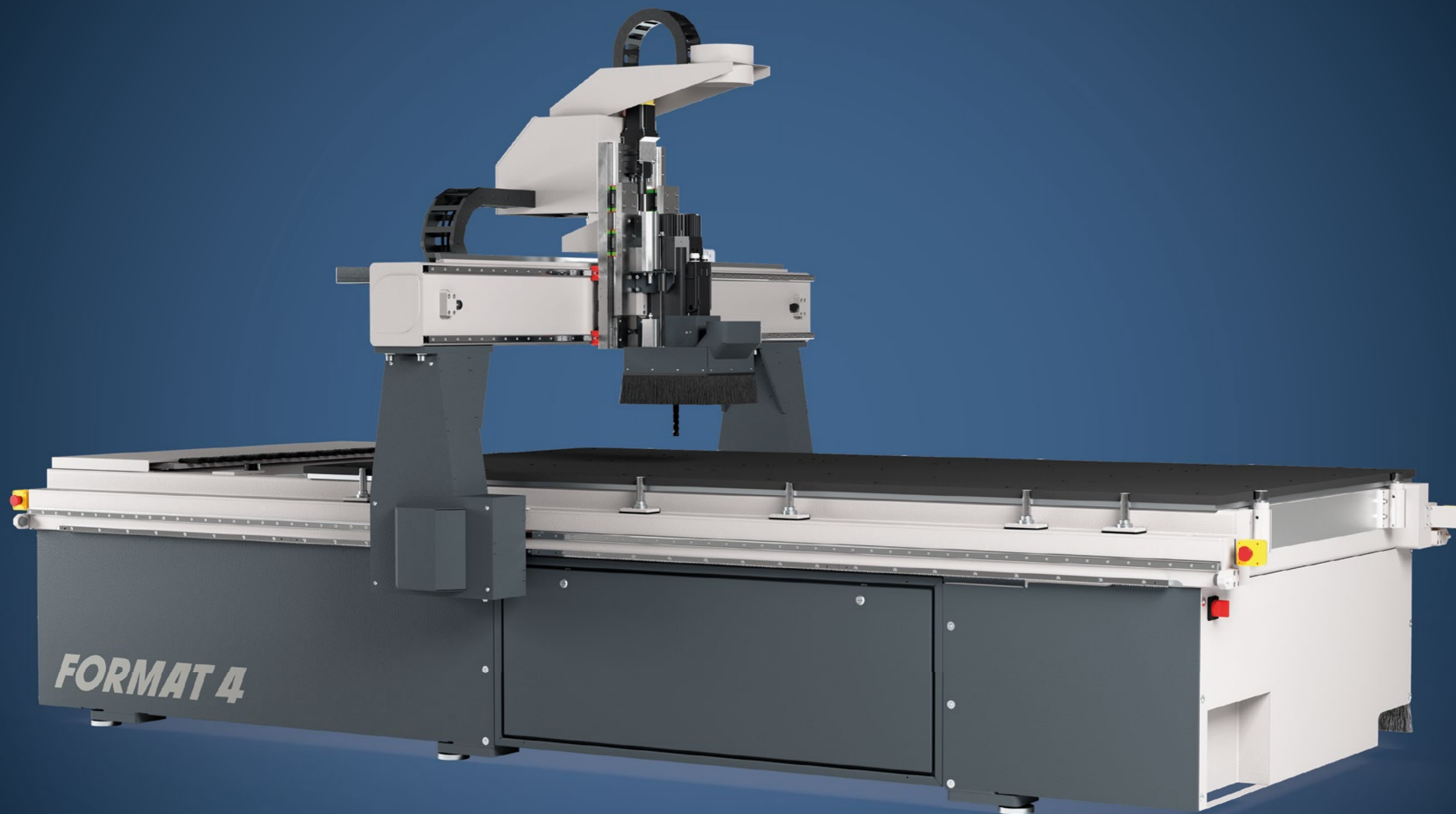
profit 60NZ

MAXIMUM FLEXIBILITY.

HIGHEST PRECISION.



FORMAT 4[®]



Maximum flexibility. Highest precision.



Especially developed for universal application, this profitable Format4CNC all-rounder convinces with top precision and impressive productivity when processing different materials. Due to the smart zoning vacuum control, the vacuum zones can be switched to either fully automatic or manual control and activated based on the workpiece size. Furthermore, the areas 1 to 5 can be used to place and process individual parts of variable sizes.

- » smartzoning – flexibly assignable vacuum fields
- » F4Integrate Software
- » Gantry system, synchronised drive, solid construction for maximum performance
- » Automatic tool length measuring system
- » 13 Tool Change Positions HSK 63 F
- » **F4®Solutions**^{ready}

... FORMAT4 Premium machines for premium requirements

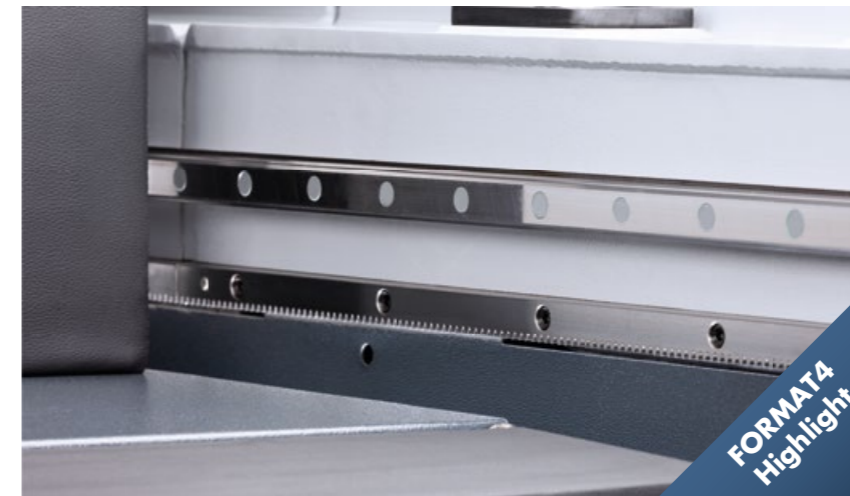
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| <ul style="list-style-type: none"> » Tailor made financing solutions » Constantly high performance in industrial continuous operation » Customer specific optimised production solutions » Solid design with premium components » Many variations of specification packages with high-tech solutions » Complete engineering precision » Premium user comfort | <ul style="list-style-type: none"> » Award winning design » Quality and precision from Austria » Uncompromised productivity » Perfect service package before, during and after the purchase » Automation solutions » Networked workshop » Software and machines from a single supplier |
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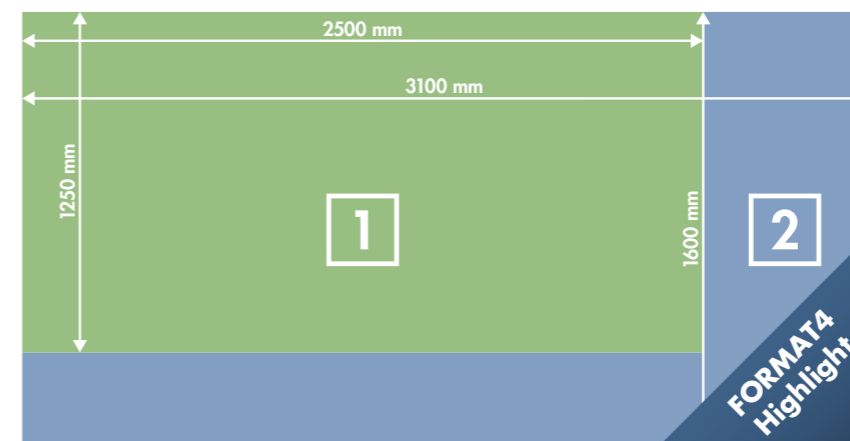
The most important highlights at a glance



Z-axis clearance 330 mm
With a clearance of 330 mm, the profit 60 NZ nesting machining center offers exceptional flexibility in woodworking. This allows even particularly high workpieces or complex components to be machined precisely and efficiently. The generous Z-clearance height of 330 mm significantly expands the range of applications and enables demanding machining processes in a single work step.



Portal design with „gantry“ drive system
The dual side driven portal design ('gantry') guarantees maximum precision and repeatability of your machining operations. The rack and pinion drive in the X and Y direction ensures maximum traverse speeds for the shortest processing times and tool changing times.



Smart Zoning
The machine's Smart Zoning feature enables fast processing of multiple panel formats ranging from 3090 mm x 1530 mm 5"x10" to 2500 mm x 1250 mm 4"x8". It is possible to quickly change from one panel format to another.

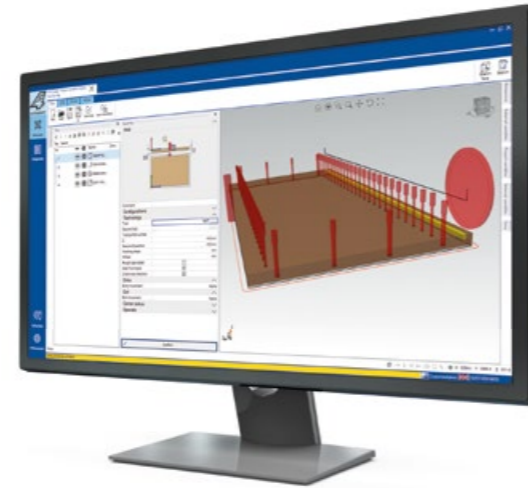
Details

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.

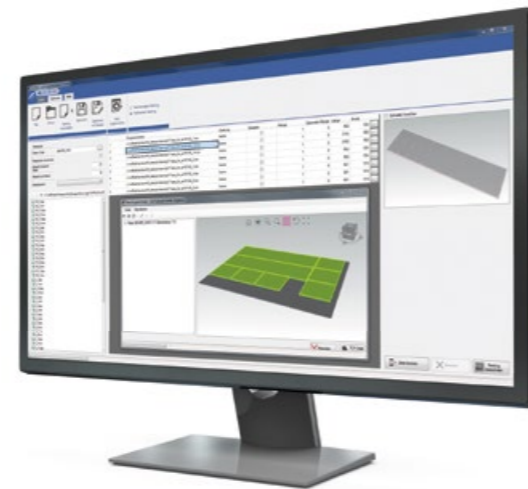
Enjoy the comfort of a state-of-the-art and well-coordinated user interface. Tool library (F4Toolbox), programming section (CAM area with integrated CAD area, F4Create) and machine operation control (F4Operate) all packed into just one single screen, with a consistent and intuitive user interface.

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



F4Nest

Saving space, material and time the CNC cutting optimization software F4®Nest interlaces furniture and other milled parts. The result will be presented in 3D. Cutting of panel material in the nesting process is efficient, profitable and reduces cut-off.



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Moulder spindle

With a motor power of 9 kW and up to 24,000 rpm, the main motor is controlled using an inverter and is attached directly to 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 pneumatically.



Automatic tool length measurement system

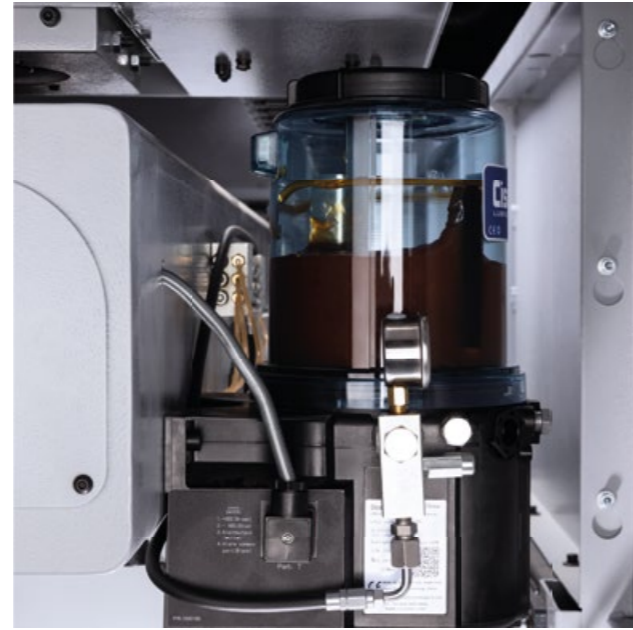
The tool length is measured precisely and fully automatically on the machine. The value determined is automatically stored and transferred to the F4Toolbox tool database. Cylindrical routing cutters up to Ø 80 mm can be measured.



Maximum stability for precise nesting

Nesting machining center featuring a solid, vibration-optimized machine frame. The electro-welded steel construction, with its specially designed ribbing, ensures exceptional stability and minimizes vibrations even at high processing speeds.

This results in consistently precise routing patterns, high process reliability, and reproducible results – the foundation for powerful and durable nesting operations in industrial applications.



Automatic centralised lubrication unit

Grease is pneumatically delivered to the lubrication points of the X, Y and Z axes at controlled intervals, as specified in the machine control system. The integrated progressive distributor ensures constant grease quantities and prevents excessive lubrication of the bearings.



Linear tool changer on the left of the machine chassis

The 13 position linear tool changer ensures quick changeover times, minimises compressed air usage and offers more than adequate space for tools.

Product range



Sliding Table Panel Saws



Spindle Moulders

Planer



Edgebanders



Wide Belt Sanding & Brushing Machines

Heated Veneer Presses



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.

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