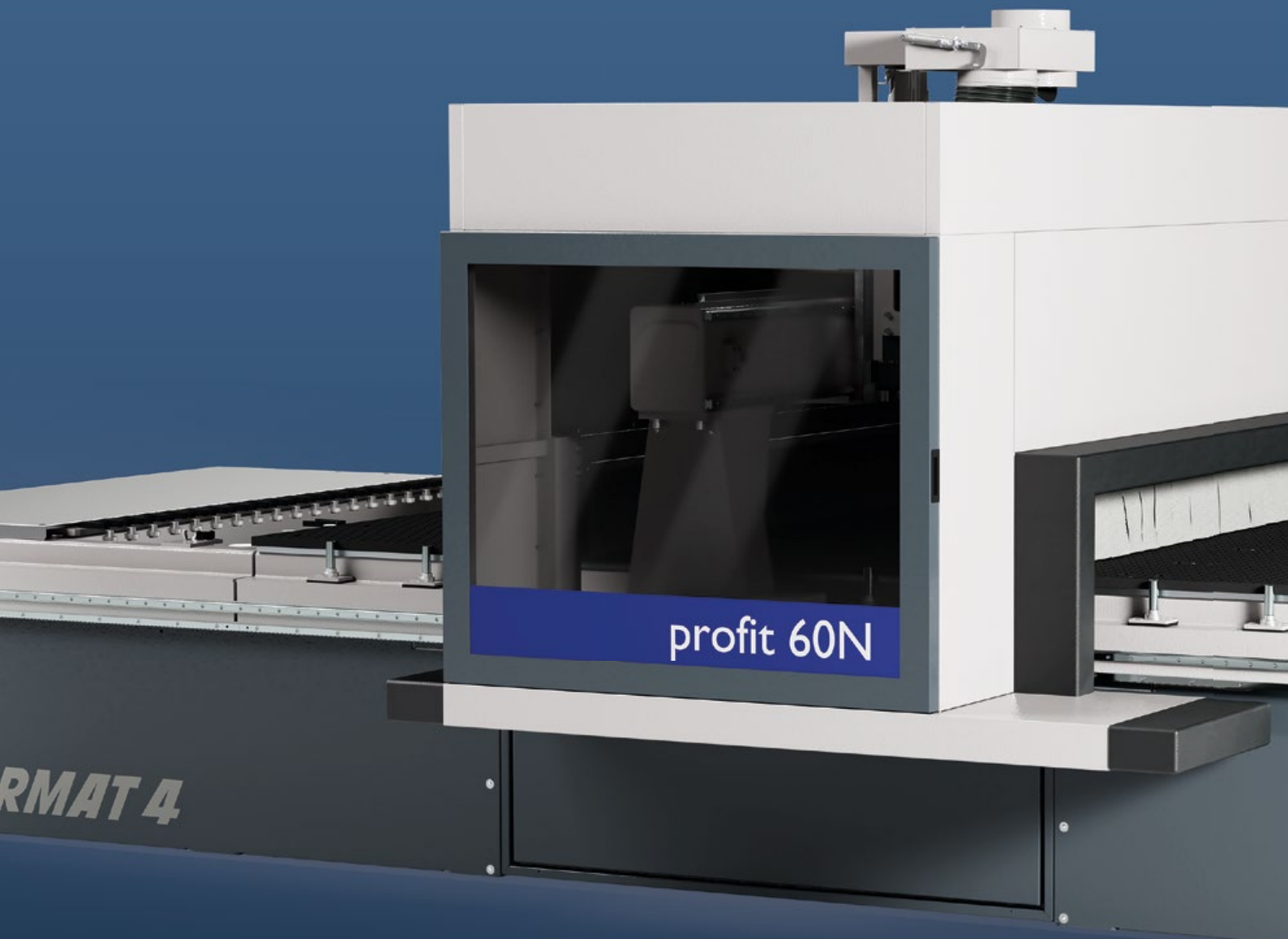


**FORMAT 4**®

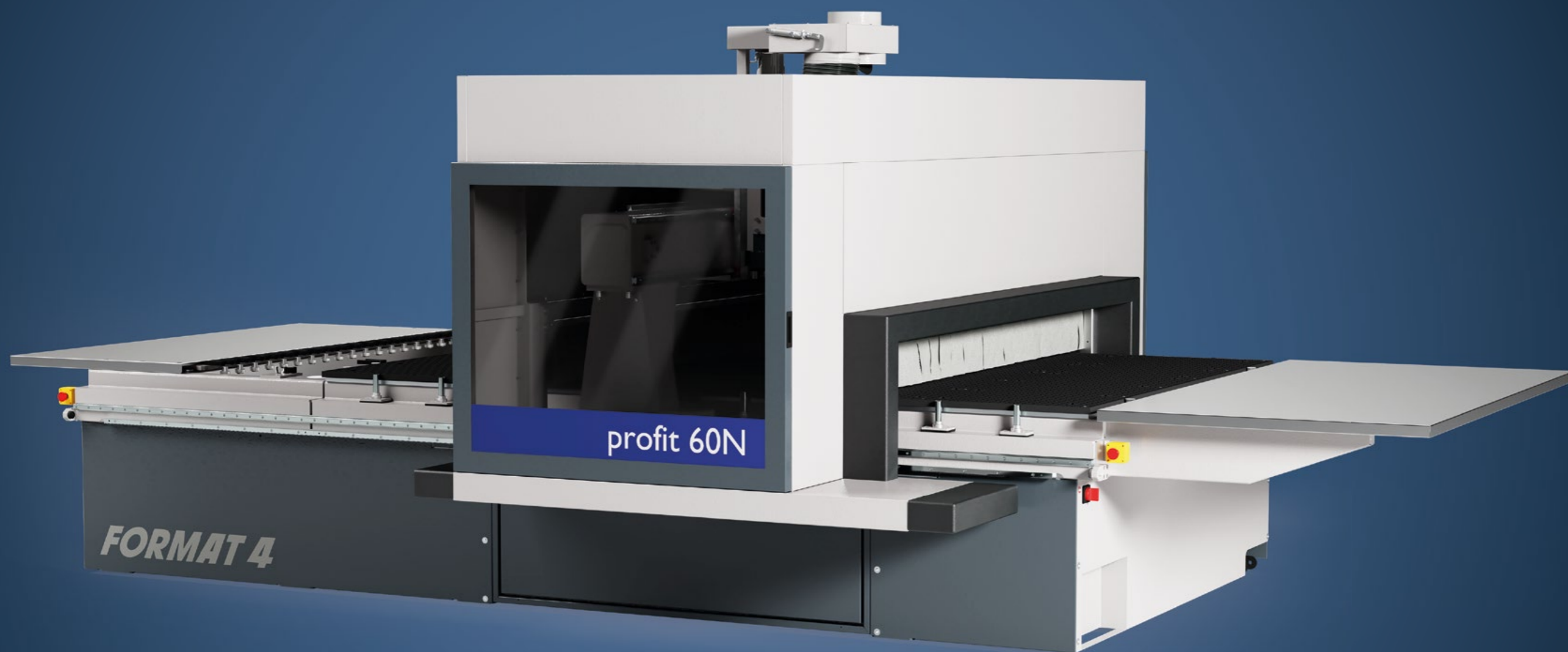
# profit 60N

MAXIMUM PRECISION  
IN EVERY DIMENSION



**FORMAT 4**

**FORMAT 4<sup>®</sup>**



## Maximum precision in every dimension



Especially developed for universal application, this profitable Format4 CNC 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 6 can be used to place and process individual parts of variable sizes. The bumper safety technology allows you to have direct access to the CNC machining center, without compromising work safety. Numerous sensors inside the padded bumpers record every touch and reliably protect you in potentially dangerous situations by an immediate program stop.

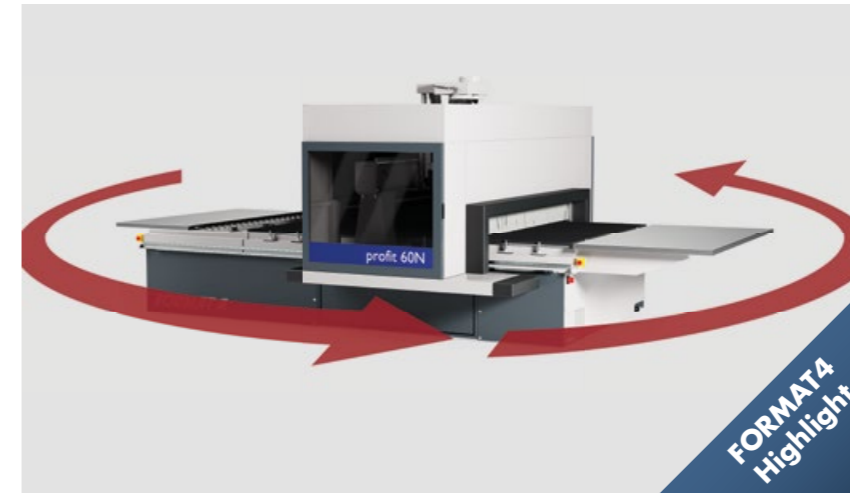
- » Smartzoning – flexibly assignable vacuum fields
- » F4Integrate Software
- » Gantry system, synchronised drive, solid construction for maximum performance
- » Automatic tool length measuring system
- » 18 Tool Change Positions HSK 63 F
- » F4Solutions<sup>ready</sup>

### ... FORMAT4 Premium machines for premium requirements

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

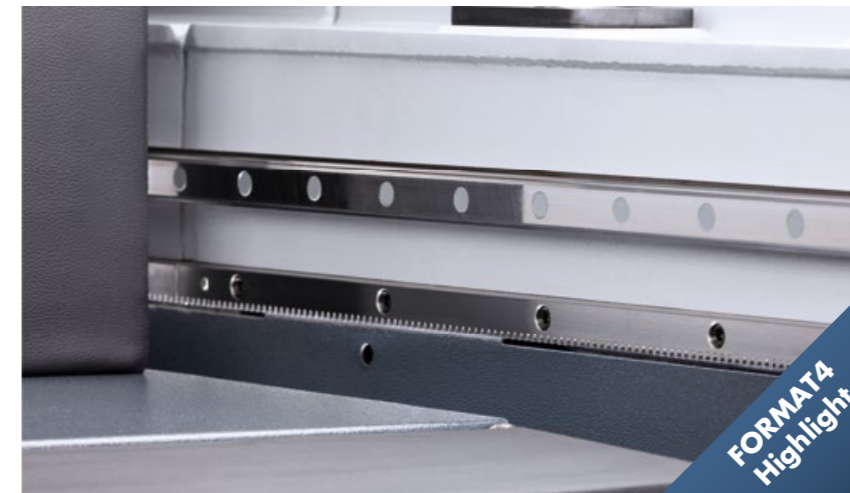
# FORMAT 4®

## The most important highlights at a glance



### Bumper safety system with 360° machine access

The bumper safety technology allows you to have direct access to the CNC machining center, without compromising work safety. Numerous sensors inside the padded bumpers record every touch and reliably protect you in potentially dangerous situations by an immediate program stop.



### 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

Smart Zoning offers the quick processing of several panel formats of 10'x7' (3090 mm x 2100 mm), 5'x10' (3090 mm x 1530 mm), 4'x8' (2500 mm x 1250 mm). It is possible to quickly change from one panel format to another.

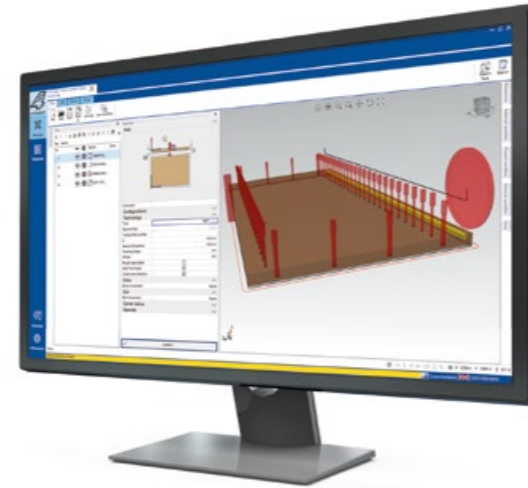
# Details

## F4Integrate – 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. F4Integrate is a software developed by Format4. Developed from practical experience for practical use in cooperation with our CNC customers, F4Integrate meets the highest demands in modern CNC machining.

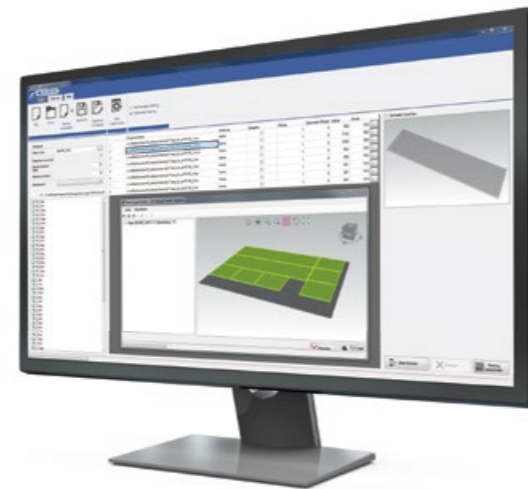
Enjoy the comfort of a state-of-the-art and well-coordinated user interface. Tool library (F4Toolbox), programming section (CAM area with integrated CAD area, F4Create) and machine operation control (F4Operate) all packed into just one single screen, with a consistent and intuitive user interface.

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



## F4Nest

Saving space, material and time the CNC cutting optimization software F4Nest 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.



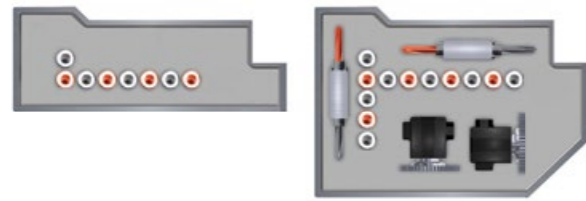
## Moulder spindle

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  $\varnothing 3 \frac{1}{8}$ " (80 mm) can be measured.



**Drilling Head DH8**

8 vertical spindles  
 Stroke = 2¾ ft (70 mm), max. drill length = 2¾ ft (70 mm) and shaft D = 3/8" (10 mm).  
 All of the spindles are motor driven and can be used individually. The rotation speed is variably adjustable up to 6000 rpm.  
 The drilling group covers the entire work area.

**Drilling Head DH16**

12 vertical spindles, 4 horizontal spindles,  
 2 grooving saws in X and Y direction  
 Pre stroke = 2¾ ft (70 mm), max. drill length = 2¾ ft (70 mm) and shaft D = 3/8" (10 mm).  
 All of the spindles are motor driven and can be used individually. The rotation speed is variably adjustable up to 7500 rpm.  
 The drilling group covers the entire work area.

**Maximum stability for precise nesting**

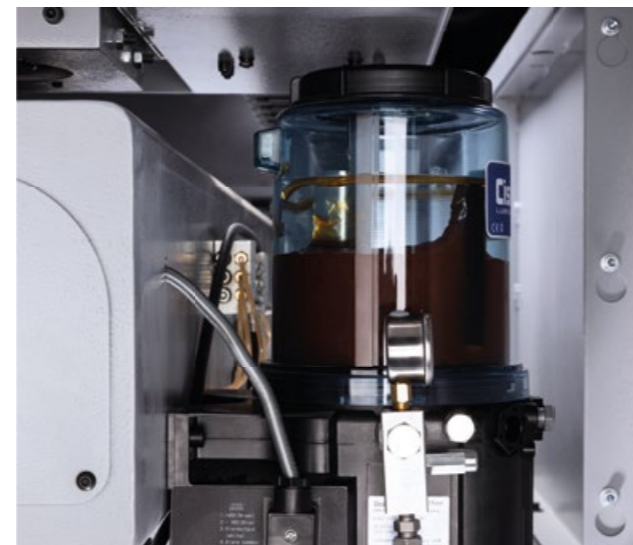
Nesting machining center featuring a solid, vibration-optimized machine frame. The electro-welded steel construction, with its specially designed ribbing, ensures exceptional stability and minimizes vibrations even at high processing speeds.

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



**Linear tool changer on the left of the machine chassis**

The 18 position linear tool changer ensures quick changeover times, minimizes compressed air usage and offers more than adequate space for tools.



**Automatic centralized 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.

**Product range**



Sliding Table Panel Saws



Shaper Spindles

Planers



Edgebanders

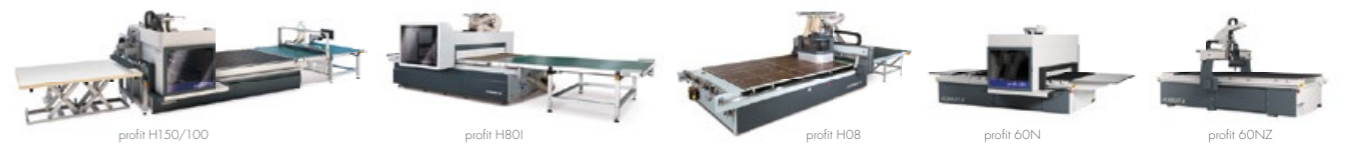


Wide Belt Sanding & Brushing Machines

Heated Veneer Presses



CNC Machining Centers



Nesting-CNC Machining Centers



Beamsaw Vertical saw



Vacuum panel lifter, Return systems & Feeding Units

# ***FORMAT 4***®

## **FORMAT4 Uncompromising expertise for the highest of requirements**

The Felder Group premium brand has met the highest standards of professional users since 2001. The customized high-performance solutions are uncompromisingly innovative, offer maximum operating comfort and complete productivity.

### **FELDER GROUP**

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