

# FORMAT 4<sup>®</sup>

## profil 45 M

A POWER PACKAGE  
WITH PREMIUM COMFORT



**FORMAT 4**®



Variofeed 4 FELDER

profil 45 M

# profil 45 M

## The powerhouse with premium comfort



Solid wood



Panel material



Plastic



The new high-tech tilting spindle shaper from Format4 is extremely user-friendly, with unbeatable machine design precision. With its elegant design, a long and solid cast iron spindle table as well as its innovative detailed solutions, the Format4 profil 45 M is sure to impress during any of the challenges of professional woodworking.

With its unique equipment details, the profil 45 M from Format4 is the industrial machine for professional custom milling work providing maximum efficiency to meet every challenge of perfect woodworking.

One of the absolute highlights is the 15" TFT color monitor included in the "x-motion" control package providing unique premium-class operating comfort. The touch screen user control is at eye level and shows all the important information on one screen. Along with all of the settings of the router spindle, the Format4 spindle fence can also be controlled directly from the touch screen. The premium package offers maximum efficiency thanks to one-touch program recall with individually configurable milling programs and an optionally available tool database.

The c-tech product line offers specially designed equipment options for processing plastics and composite materials.

# FORMAT4®

## Variations

Models & Your Advantages



### profil 45 M

- » Table opening: 12 19/32"
- » Spindle fence for max. tool diameter: 9 27/32"
- » Quick-change system of the shaper spindle, standard
- » Shaper spindle control: "Power Drive"



### profil 45 M x-motion

- » Table opening: 12 19/32"
- » Spindle fence for max. tool diameter: 9 27/32"
- » Quick-change system of the moulder spindle, standard
- » Spindle shaper settings x-motion touch screen

## FORMAT4 Premium Machines for Premium Requirements

- » Constantly high performance in industrial continuous operation
- » Customer specific optimized 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
- » Uncompromised 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**

## Quick-change system for shaper spindle

The almost unlimited applications of your new profil 45 tilting spindle shaper is enhanced even further by the spindle quick change system. Spindles with pre-mounted tools for serial moulding work and spindles with differing diameters can be changed over in seconds. A particular highlight is the high speed router spindle for router tools with a rpm of 15,000. For maximum stability and durability, Format-4 spindles have been designed with 3 sets of high quality, high precision bearings!



**FORMAT4 Highlight**

## Stability and high performance even when at maximum load

The solid, highly precise cast iron table guarantees maximum stability and a complete vibration-free process even when at maximum load. The sturdy front pull-out with a length of 50" quickly and easily increases the support surface by up to  $15 \frac{3}{4}$ ". The emergency stop switch is mounted directly on the front of the pull-out for maximum operating safety and it is always within reach. (Optional) Increase the working surface of your profil 45 M by  $26 \frac{3}{8}$ " on both sides with the solid table extensions. A suitable extended front pull out support ( $86 \frac{39}{64}$ ") is also included. Option



**FORMAT4 Highlight**

## Intuitive x-motion Control

The rotation speed, spindle height and angle can be adjusted intuitively and precisely with the self-explanatory x-motion control via the 15" touchscreen control panel. The memory for tools, spindles and mortising programs enable perfect repeatability and short set-up times.

# FORMAT4®

## Details



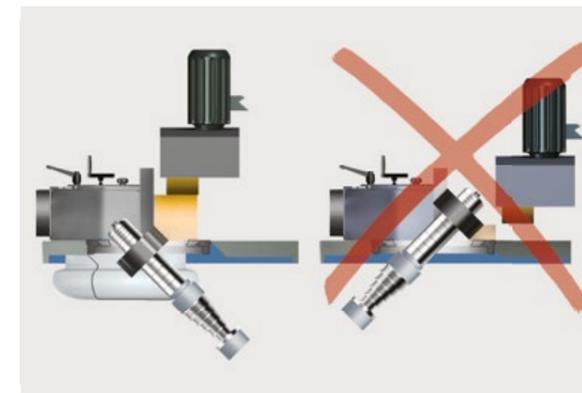
## Small Detail – Great Impact

In Format4 machine units, the tilt segment "Easy-Glide" meets the highest requirements for trade and industry. A precise, forced guided, double suspension guarantees maximum load bearing and zero backlash tilting.



## High-speed router spindle

The high speed router spindle can be used for all routing tools with a shaft  $\varnothing 6-16$  mm. Rotation 15,000 rpm, with full motor power of up to 10.0 HP.



## Format4 spindle rearward tilt: An important operating advantage when machining any kind of workpiece!

Dangerous forward tilting of the spindle causing severe operating drawbacks: Increased risk of accidents, limited workpiece height, power feeder cannot be used, poor milling pattern, insufficient or possibly no chip removal. With Format4: Correct spindle tilt "rearwards" with maximum operating comfort: Safe operation, every workpiece size is possible, power feeder use is possible without any limitations, precise machined surface, best chip removal.



## The profil 45 spindle shaper unit leaves nothing to be desired!

Every detail of the heavy duty profil 45 spindle shaper reflects decades of engineering connecting together with the most modern technology. The powerful profil 45 spindle shaper unit has been specially developed for industrial use. With the precision dual guidance ensuring exact angle adjustments and the dovetail guiding system guaranteeing exact linear height adjustment, you are assured accurate settings for many years to come.



**Spindle fence control**

The spindle fence is electrically controlled via high-precision quick adjustment and the current setting values are displayed in real time.



**Spindle fence control via touch screen**

The high level of standard equipment guarantees maximum precision, outstanding ease of use and shortest setup times: The profil 45 x-motion allows you to control the spindle fence comfortably and precisely from the central TFT color display with 15" touchscreen. Increase your efficiency and productivity in series production with adjustments being made in seconds and repeatability always guaranteed.



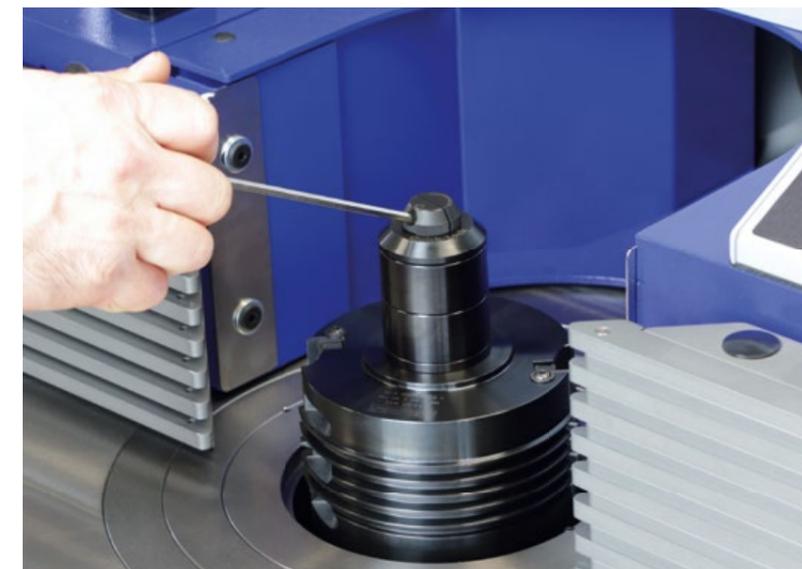
**Power-Drive**

Turn knob for quick adjustments, push button for fine adjustments. The LED display shows the actual values.



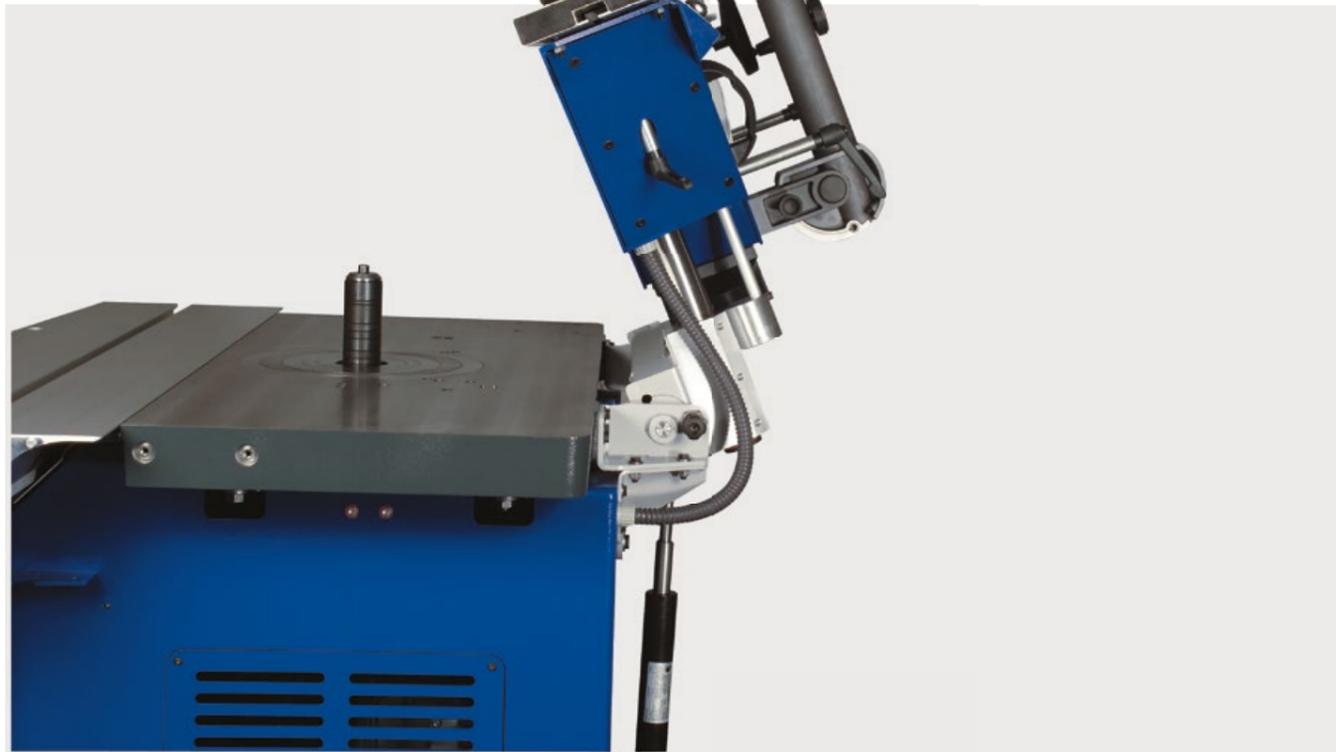
**Spindle shaper fence quick clamping system**

As an option: Attach and release the moulding fence in a single hand movement. By simply moving the quick-clamp lever, the moulder fence can be fixed in the desired position and released completely with just the turn of a hand and without any force.



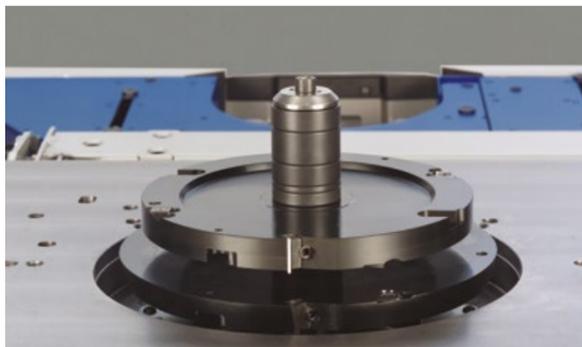
**"Quick-Lock"**

Change routing tools quickly and safely The "Quick-Lock" clamping system allows a convenient change of cutters on the table router and reduces the risk of injury from slipping. Suitable for Ø 30 mm spindles.



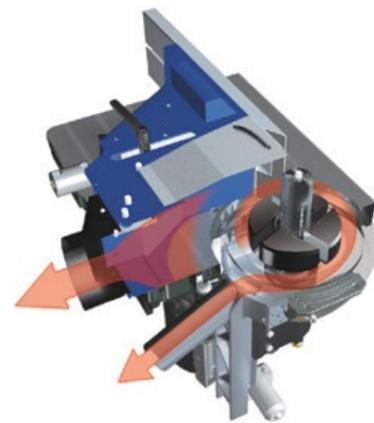
**Standard: Spindle fence with tilt away function**

Important for productive, quick changing of tools and spindles as well as for curve moulding.



**Table opening: 12 19/32"**

The large spindle table opening offers you maximum working safety: Large dimensioned panel raising tools as well as slot and tenoning tooling can be used below the table surface.



**Dual dust extraction for spindle shaper**

The dual dust extraction for the shaper via the shaper fence and the chip collection bin under the cutterhead ensures clean and trouble free operation.

**Technical specifications**

Electrics	profil 45 M	profil 45 M x-motion
001 3x 400 V motor voltage	S	S
002 3x 230 V motor voltage	W	W
004 50 Hz motor frequency	S	S
005 60 Hz motor frequency	W	W
007 7.5 HP (5.5 kW) S6/40%	S	S
008 10 HP (7.35 kW) S6/40%	O	O
009 13.5 HP (10 kW) S6/40%	O	O
10 STAR-delta-START	S	S
12 Switch contact for the control of an extractor	O	O
13 Operating hour meter	O	S
14 3-phase CEE coupling for additional equipment with time-delayed connection (essential for the use of a power feeder)	O	O
16 Continuously variable speeds from 1,500–10,000 rpm only with 7.35 kW (10 HP) S6/40%	O	O
26 Plug-in connection for control panel at eye level		O
- 5 speeds 3,500/4,500/6,000/8,000/10,000 rpm	S	S
- Switch for forward and reverse run	S	S

**Spindle shaper unit and spindle fence**

101 40 mm Ø router spindle, 6 19/64" useable height above the table, instead of the standard 30 mm Ø router spindle	O	O
102 50 mm Ø router spindle, 6 19/64" useable height above the table, instead of the standard 30 mm Ø router spindle	O	O
103 30 mm diameter spindle, 5 33/64" useable spindle height above the table;	S	S
105 1 1/4" Ø router spindle, 5 33/64" useable height above the table, instead of the standard 30 mm Ø router spindle	O	O
106 35 mm Ø router spindle, 5 33/64" useable height	O	O
107 32 mm Ø router spindle, 5 33/64" useable height	O	O
108 Highspeed router spindle 15,000 rpm instead of a 30 mm Ø shaper spindle	O	O
110 Electric spindle tilt 90°–45°	S	S
112 Shaper fence 250 for toolsdia. max. 9 27/32"	S	S
113 Electromotive MULTI adjustment system for spindle fence 250 enabling parallel alignment and quick adjustments with digital display	S	S
116 21 21/32" anodised aluminum fence plates	S	S
117 21 21/32" spindle fence plate, aluminum anodized with safety bar guides	O	O
118 Electrical height adjustment of the moulding spindle	S	S
119 Digital display for router spindle angle and height	S	
121 Spindle locking from outside	S	S
123 Centrex spindle moulder guard	S	S
125 "Integral" safety bar guides 19 11/16"	O	O
128 Quick locking of the routing fence	O	O
180 50" extendable frame with emergency stop	O	O
183 26 3/8" table extension on both sides with 86 39/64" extendable frame	O	O
- Control panel at eye level with "x-motion" control of the height, angle and fence position		S
- Table opening 12 19/32"	S	S

Important accessories	profil 45 M	profil 45 M x-motion
212 Swingaway device for power feeder	<input type="radio"/>	<input type="radio"/>
215 Application routing device for fixed bed spindle moulders	<input type="radio"/>	<input type="radio"/>
220 604-110 – Parts list holder with A4 clipboard		<input type="radio"/>

Feeder device		
226 Professional power feeder package for series production work (#001)	<input type="radio"/>	<input type="radio"/>

General		
- Extraction connection-Ø in mm Spindle fence/below table level spindle aggregate	140/80	140/80
- Working height in mm	890	890
- Weight kg (with standard configuration)	730	730
- Min. transport width in mm	920	920

Packaging		
223 IPPC packaging	<input type="radio"/>	<input type="radio"/>

Transport		
221 Container packaging	<input type="radio"/>	<input type="radio"/>

## Product range

### Sliding Table Panel Saws



### Shapers



### Planer



### Edgebanders



### Wide Belt Sanding Machines



### Heated Veneer Presses

HVP heated veneer press  
With Elkom® electric heating platens with warm water heating with thermal oil heating connection to an existing heating system

### CNC machining centers



### Nesting-CNC Machining centers



### Industrial Panel Saws



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

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