

FORMAT 4®

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 moulder 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 colour 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 programme recall with individually configurable milling programmes and an optionally available tool database.

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

Variations

Models & Your Advantages



profil 45 M

- » Table opening: 320 mm
- » Spindle fence for max. tool diameter: 250 mm
- » Quick-change system of the moulder spindle, standard
- » Shaper spindle control: "Power Drive"



profil 45 M x-motion

- » Table opening: 320 mm
- » Spindle fence for max. tool diameter: 250 mm
- » Quick-change system of the moulder spindle, standard
- » Spindle moulder 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 moulder spindle

The almost unlimited applications of your new profil 45 tilting spindle moulder 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 1,270 mm quickly and easily increases the support surface by up to 400 mm. 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 670 mm on both sides with the solid table extensions. A suitable extended front pull out support (2,200 mm) 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



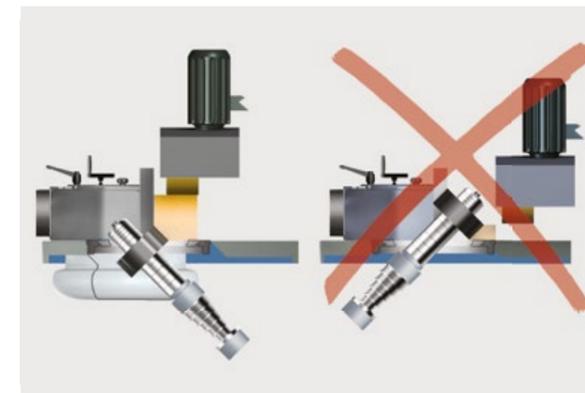
Small Detail – Great Impact

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 moulder unit leaves nothing to be desired!

In every detail of the heavy duty profil 45 spindle moulder the decades of engineering connecting with the most modern technology. Every detail of the heavy duty profil 45 spindle moulder reflects decades of engineering connecting together with the most modern technology. The powerful profil 45 spindle moulder 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**

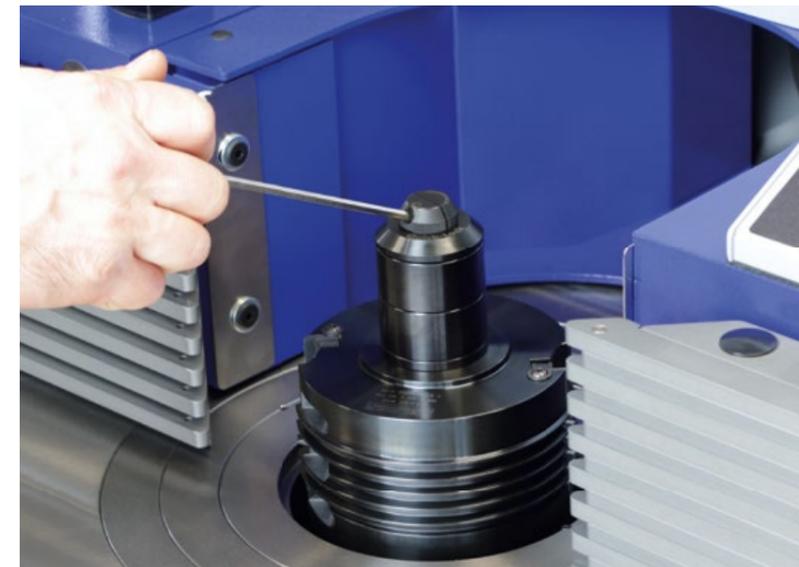
The high level of standard equipment guarantees maximum precision, outstanding ease of use and shortest setup times: The profil 45 x-motion allows you to control the spindle fence comfortably and precisely from the central TFT colour display with 15" touchscreen. Increase your efficiency and productivity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

**Power-Drive**

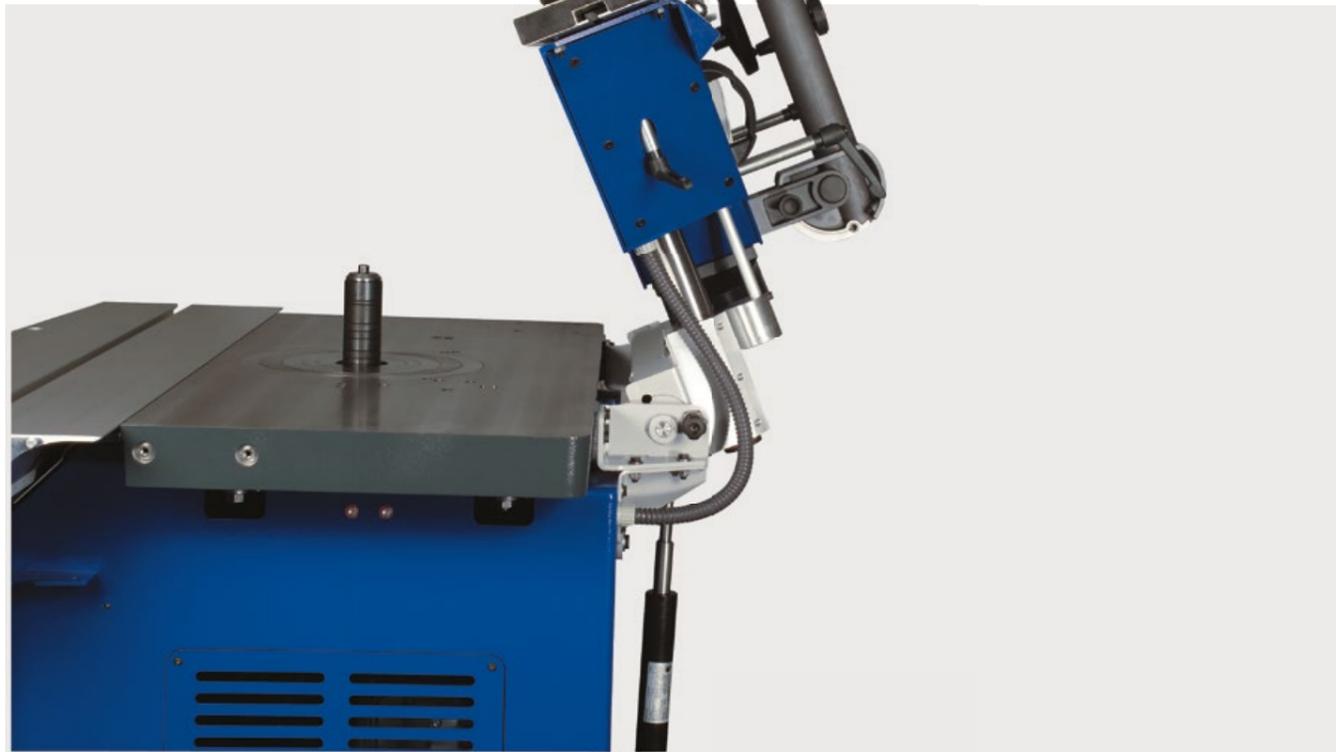
Turn knob for quick adjustments, push button for fine adjustments. The LED display shows the actual values.

**Spindle moulder 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 moulding 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.

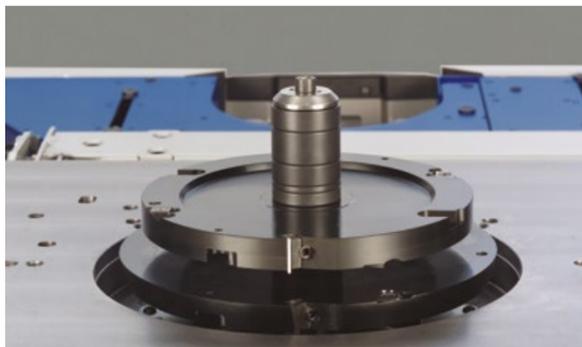
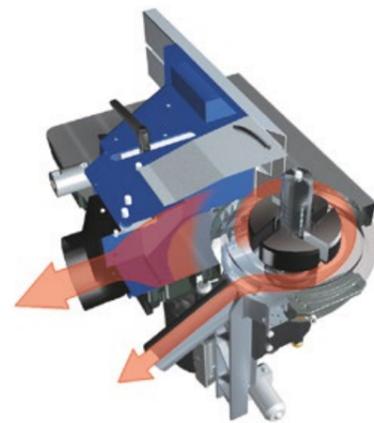


Table opening: 320 mm

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 moulder

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 moulder unit and spindle fence

101 40 mm Ø router spindle, 160 mm useable height above the table, instead of the standard 30 mm Ø router spindle	O	O
102 50 mm Ø router spindle, 160 mm useable height above the table, instead of the standard 30 mm Ø router spindle	O	O
103 30 mm diameter spindle, 140 mm useable spindle height above the table;	S	S
105 1¼" Ø router spindle, 140 mm useable height above the table, instead of the standard 30 mm Ø router spindle	O	O
106 35 mm Ø router spindle, 140 mm useable height	O	O
107 32 mm Ø router spindle, 140 mm useable height	O	O
108 Highspeed router spindle 15,000 rpm instead of a 30 mm Ø moulder spindle	O	O
110 Electric spindle tilt 90°–45°	S	S
112 Shaper fence 250 for toolsdia. max. 250 mm	S	S
113 Electromotive MULTI adjustment system for spindle fence 250 enabling parallel alignment and quick adjustments with digital display	S	S
116 550 mm anodised aluminium fence plates	S	S
117 550 mm spindle fence plate, aluminium anodised 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 500 mm	O	O
128 Quick locking of the routing fence	O	O
180 1,270 mm extendable frame with emergency stop	O	O
183 670 mm table extension on both sides with 2,200 mm extendable frame	O	O
- Control panel at eye level with "x-motion" control of the height, angle and fence position		S
- Table opening 320 mm	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



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 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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