

FORMAT 4®

profil 45 Z

ELEGANT,
PERFECTLY DESIGNED
AND INTELLIGENT



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profil 45 Z

Elegant, perfectly designed and intelligent



Solid wood



Panel material



Elegant, perfectly designed and intelligent – the Format4 profil 45 Z offers perfection at the push of a button regardless of the operation. The highlights for the professional user: height and angle adjustment of the spindle as well as the positioning of the spindle fence can be quickly and easily adjusted from the control panel. Spindle quick change system quick changeover times and maximum flexibility. The 15" TFT monitor in the "x-motion" control package offers unique, unbeatable operating comfort. The touch screen user control is at eye level and shows all the important information on one screen. This is premium woodworking of the highest level with quality from Austria.

Variations

Models & Your Advantages



profil 45 Z

- » Table opening: 12 ¹⁹/₃₂"
- » Spindle fence for max. tool diameter: 9 ²⁷/₃₂"
- » Quick-change system of the shaper spindle, standard
- » Zapf- und Schlitztisch: 51 ³/₁₆" (80 / 98")
- » Shaper spindle control: "Power Drive"



profil 45 Z x-motion

- » Table opening: 12 ¹⁹/₃₂"
- » Spindle fence for max. tool diameter: 9 ²⁷/₃₂"
- » Quick-change system of the moulder spindle, standard
- » Slot- and tenoning table: 51 ³/₁₆" (80 / 98")
- » Spindle shaper settings x-motion touch screen

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



Slot and tenoning

Large dimensioned and designed for maximum load bearing capacity, the aluminum format sliding table "hovers" on the 'X-Roll', a highly developed guiding technology. The X shape ("X-Roll") design of the rollers distributes the load optimally on all sides. The linear surface of the steel rollers running on the hardened and ground guiding surface guarantees unbeatable precision and smoothness. "X-Roll" will guarantee you the quality and precision that you expect from your new panel saw. And here's another reason why one should opt for Format4: a 10-year factory warranty emphasizes the reliability of the "X-Roll".



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.



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.

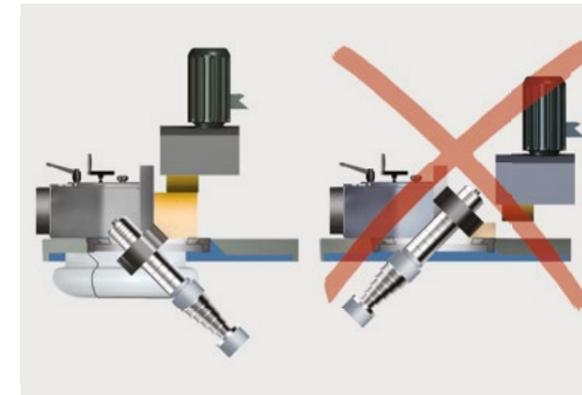


Shaper quick-change system

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!

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Details



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.



High-speed router spindle

The high speed router spindle takes all router shaft diameters of \varnothing 6–16 mm. Rotational speed of 15,000 rpm, with maximum motor power of up to 10 HP.



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

In every detail of the heavy duty profil 45 spindle shaper the decades of engineering connecting with the most modern technology. 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 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.

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Spindle fence control

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



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 shaper fence can be fixed in the desired position and released completely with just the turn of a hand and without any force.



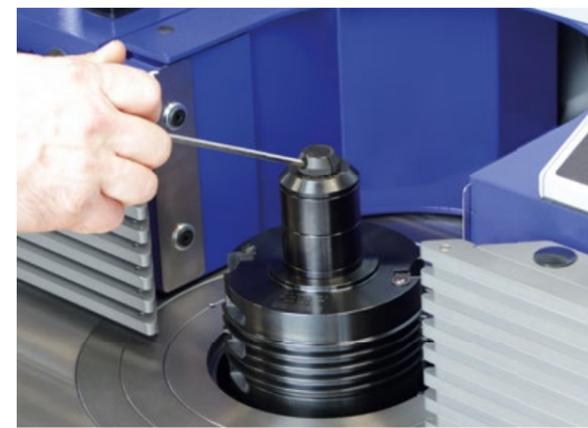
Outrigger table 1300

Option: The 1300 outrigger table offers an optimum support surface even for the largest workpieces. The workpiece roller at the end of the outrigger guarantees the smooth loading of workpieces. Large doors can be processed on all sides for example, when using the outrigger in combination with the 8 ft slot and tenoning table.



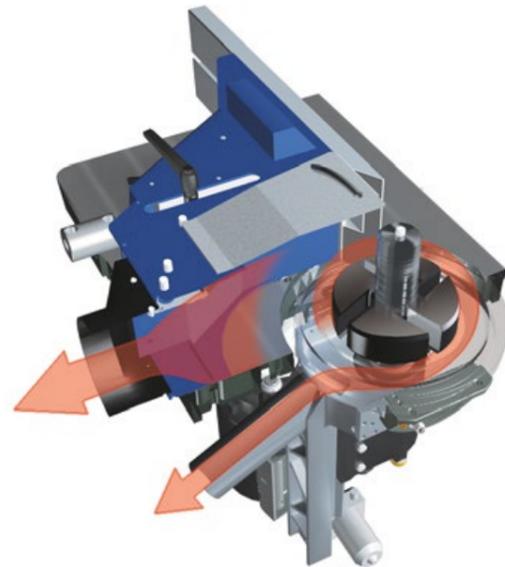
43" outrigger table

Option: The outrigger table enables the processing of large and heavy workpieces with the sliding table. There are four ball bearing guide rollers in the outrigger telescopic arm for maximum precision and smoothness.



"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.

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.

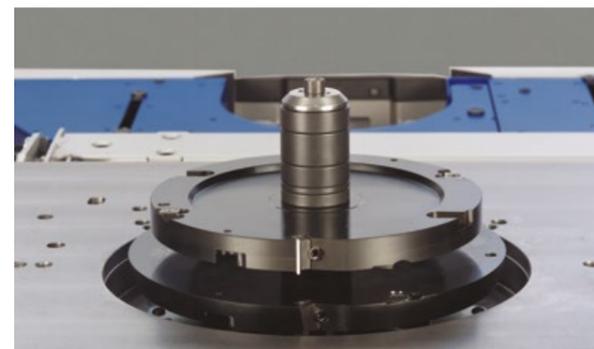


Table opening: 12 19/32"
The large spindle table opening offers you maximum working safety: large dimensioned panel raising tools as well as slot and tenoning tooling can be used below the table surface.



Safety Bar Guides
The safety bar guides, great for "end-grain" work (optional).

Technical specifications

Electrics	profil 45 Z	profil 45 Z 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		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 tools dia 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" anodized 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 shaper spindle	S	S
119	Digital display for router spindle angle and height	S	
121	Spindle locking from outside	O	O
123	Centrex spindle moulder guard	S	S
125	"Integral" safety bar guides 19 11/16"	O	O
126	Prepared for tenoning hood for tools up to a max. diameter of 350 mm incl. speed monitoring acc. to CE-regulations	O	O
128	Quick locking of the routing fence	O	O
-	Control panel at eye level with "x-motion" control of the height, angle and fence position		S
-	Manual spindle locking mechanism	S	S
-	Table opening 12 19/32"	S	S

	profil 45 M	profil 45 M x-motion
Slot and tenoning tables		
133 Slot and tenoning table 98 27/64", anodized incl. support leg	<input type="radio"/>	<input type="radio"/>
137 Slot and tenoning tables 1,300, anodized	S	S
138 Slot and tenoning tables 2,050, anodized	<input type="radio"/>	<input type="radio"/>
Outrigger tables, slot- and tenoning plate		
159 43 5/16" outrigger table	<input type="radio"/>	<input type="radio"/>
160 Outrigger table 1,300	<input type="radio"/>	<input type="radio"/>
164 Slot- and tenoning plate 43 5/16"	<input type="radio"/>	<input type="radio"/>
165 Telescopic extension for crosscut fence from 43 5/16" to 78 47/64" (#164)	<input type="radio"/>	<input type="radio"/>
166 102 23/64" outrigger crosscut fence, system "X-Roll"	<input type="radio"/>	<input type="radio"/>
Important accessories		
209 Tenoning plate for format sliding table	<input type="radio"/>	<input type="radio"/>
210 Coupling system for table extension spindle shaper	<input type="radio"/>	<input type="radio"/>
211 Tenoning hood for tools up to Ø max. 10 5/8" (13 25/32" only in comb. with pos. 126)	<input type="radio"/>	<input type="radio"/>
212 Swingaway device for power feeder	<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)	650	650
- Min. transport width in mm	935	935
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 customized high-performance solutions are uncompromisingly innovative, offer maximum operating comfort and complete productivity.

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