

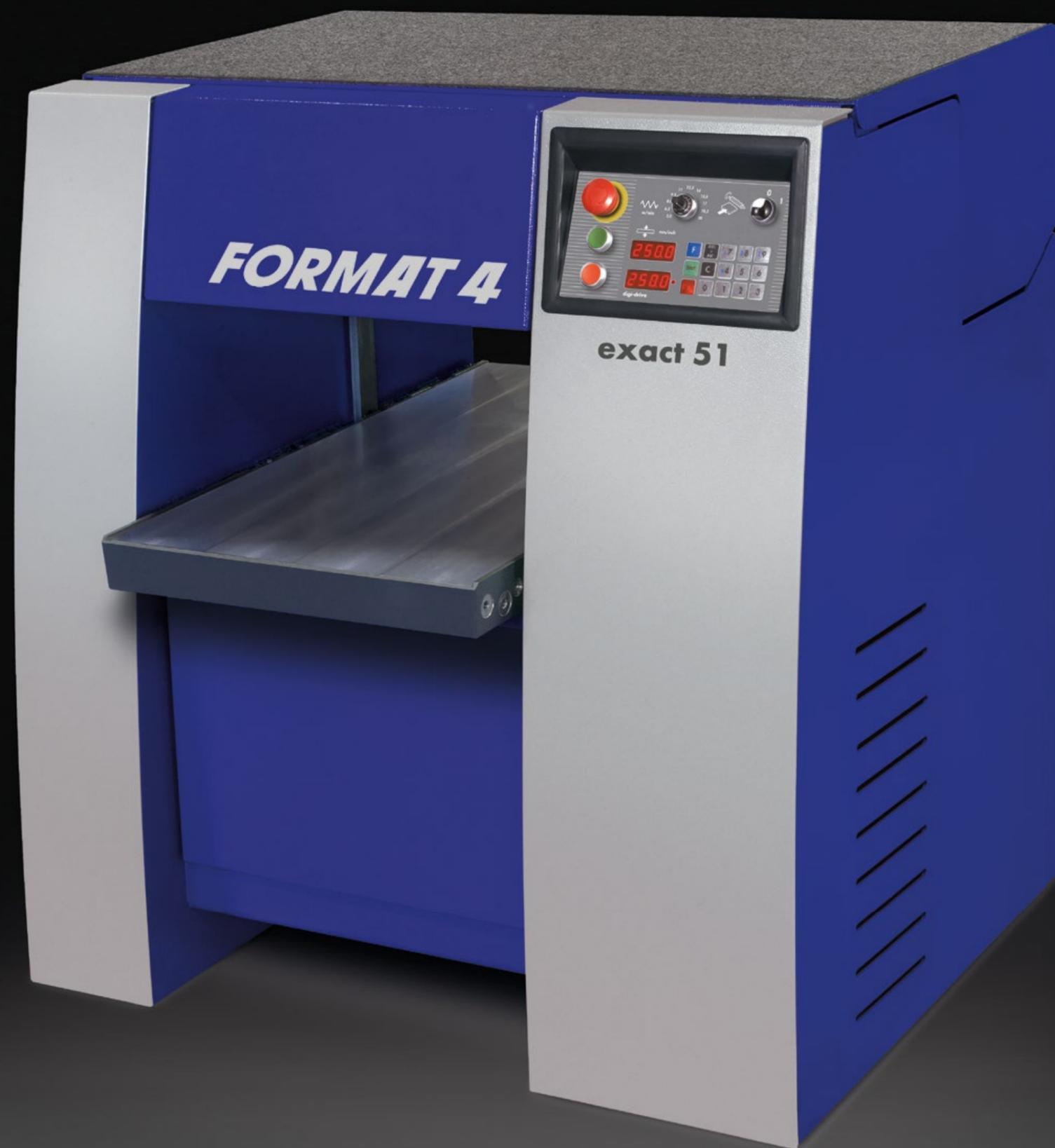
FORMAT 4®

exact 51

PRECISION AND
COMFORT FOR
HEAVY USE



FORMAT 4[®]



exact 51

Precision and comfort for heavy use.



exact 51

- » Planing width: 19³/₄" (504 mm)
- » Cutterblock: self-aligning planer knives; Silent-Power[®] Spiral Blade Cutterblock (optional)
- » Jointing table length: 35³/₈" (900 mm) (59¹/₁₆" = 1,500 mm)
- » Max. depth of cut: 2⁵/₆₄" (10 mm)
- » Thicknessing height 1/8 - 11³/₁₆"
- » Variable feed speed adjustment 5–20 m/min

If you have the highest demands for perfectly planed wood surfaces, thickness planers from Format4 are exactly what you need. Functionality and user-friendliness, sophisticated technology, perfect processing and unique planing features should not have to be expensive. Come and see for yourself by taking a closer look at the machines!

Additionally to the solid standard features as for example the spring loaded, segmented pressure bar on the infeed, as well as outfeed side, and the continuously adjustable feed rate, which is variable from 5 to 20 m/min, the new exact 51 can be adapted flexibly to the respective customer demands from a long list of options. Wood is a living material, therefore we have the perfect solution for every application, depending on the type of wood, wood moisture and in which dimension around the globe it is planed. Proven system solutions such as the segmented infeed roller, rubberized feed rollers and a under table roller make the new Format4 exact 51 a cost-effective solution for professional planing.

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



FORMAT4 Highlight

Silent-Power®

Exclusive for jointer/planers from the Felder Group. The Silent-Power® spiral blade cutterblock cuts noise levels during planing by well over half and provides a continuous pulling cut for tear-free planing patterns in any type of wood. With this revolutionary new development from Format4 you are obtaining all of the advantages of a spiral cutterblock at considerably lower operating, investment and adjustment costs. The benefits of the Silent-Power® spiral blade cutterblock at a glance:

- » Sensationally quiet, noise is reduced by 50%!
- » Blade life up to 20 times longer
- » Four highly precise cutting edges on each knife
- » Optimised chip extraction and reduced chip volume
- » Tear-free planing results
- » Reduced power consumption when compared to similar systems



FORMAT4 Highlight

“Digi-Drive”

Enter the thickness required, press Start and the jointing bed adjusts exactly to the desired position. LED displays for the required and actual values. Additional functions: incremental adjustment, 4 programmable jointing table positions.



FORMAT4 Highlight

Feeder device

Variable feed speed of between 5–20 m/min. Whether its a perfect finish or quick thickness calibration that is required, the correct feed speed can always be set to match.

FORMAT4®

Details



Change the blades in record time

4-knife system cutterblock, knife change in less than two minutes, self-aligning knives resulting in high accuracy when changing blades, no resin build-up on clamping screws. Positive locking ensures ultra-smooth operation, maximum blade life, savings thanks to economical blade price.



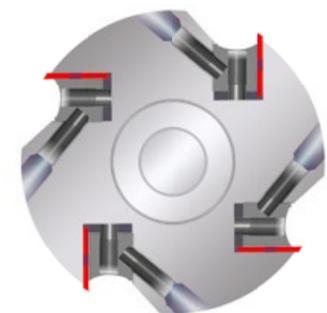
Infeed rollers

The infeed rollers are suspended which allows them to lift gently when processing with a large depth of cut.



Power-Drive

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



Thickness planing with 4-knife system cutterblock

The planer equipped with the Format4 system cutterblock, a 4 23/32" (120 mm) cutting circle and 4 blades, offers performance, precision and operating comfort all in one.



Workpiece roller on the infeed side

Powder coated steel roller for planers with electric jointing table adjustment. Mounting is done on the infeed side.

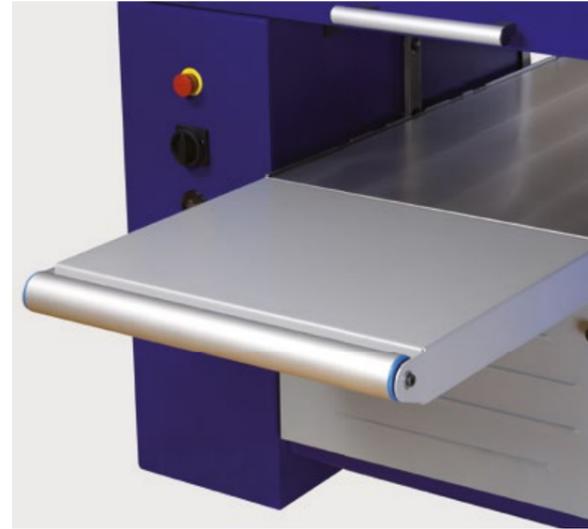
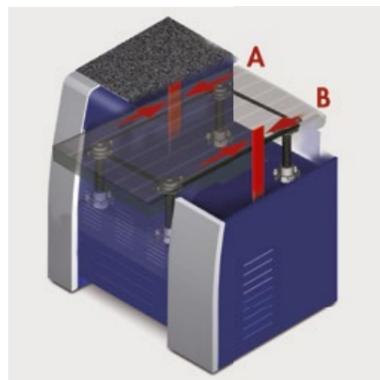


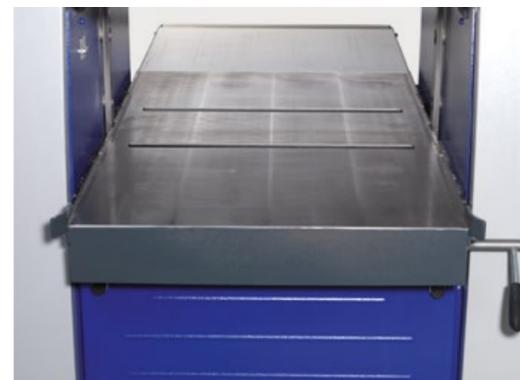
Table extension

Increased comfort: Stable table extensions with workpiece roller on the outfeed side.



Outstanding stability and long-lasting precision

Four trapezoidal support spindles ensure utmost precision and high load bearing capacity. Vertical guides integrated into the side of the machine chassis absorb the resulting outfeed side pressure and guide the jointing table into position with an accuracy of a tenth of a millimeter.



Adjustable integrated bed rollers

Optional integrated adjustable bed rollers are available for processing workpieces with high resin or moisture content.



Scissor lifting table

On request, the planer table can be extended by 45 9/32" (1,150 mm) with a scissor lifting table.

Technical specifications

Electrics

	exact 51
001 3x 400 V motor voltage	S
002 3x 230 V motor voltage	W
004 50 Hz motor frequency	S
005 60 Hz motor frequency	W
007 7.5 HP (5.5 kW) S6/40%	S
008 10 HP (7.35 kW) S6/40%	O
009 13.5 HP (10 kW) S6/40%	O
10 STAR-delta-START	S
12 Switch contact for the control of an extractor	O
13 Operating hour meter	O

Cutterblock

39 4-knife Format-4 system cutterblock	S
41 4 knife TERSA cutter-block	O
44 Silent-Power spiral cutterblock	O
- Rotation speed 5,000 rpm	S
- Number of knives – Silent-POWER spiral cutterblock	77
- Cutterblock diameter in mm	120

Jointer and feed gears

53 Electric height adjustment for planer table ("Power-Drive" D1)	S
55 Electronic digital display for the jointing table adjustment	S
57 Variable speed 5–20 m/min	S
59 2 adjustable rollers under the planer table, adjustment range 0–0.5 mm	O
60 Option to preselect "Digi-Drive" D1 dimensions for position control of the jointer table height	O
61 Rubber infeed roller Ø 3 11/32"	O
62 Rubber outfeed roller Ø 3 11/32"	O
63 Steel segmented infeed roller, spiral toothed (I61)	O
64 Second steel outfeed roller, micro teeth Ø 3 11/32" (I62)	O
65 Second rubber coated outfeed roller Ø 3 11/32" (85 mm) (#62)	O
- Steel outfeed roller, micro teeth Ø 3 11/32"	S
- Jointing width in mm	504
- Min.-max. jointing height in mm	3–300
- Steel infeed roller Ø 3 11/32" (85 mm)	S
- Spring-loaded pressure bar on the outfeed	S
- Spring loaded segmented pressure beam, infeed	S
- Min. workpiece length in mm	270
- Maximum depth of cut in mm	10

Important accessories

		exact 51
211	432-103 – Workpiece roller on infeed side for planer table	<input type="radio"/>
224	600-152 – Table extension with workpiece roller for the planer table (20 5/64" x 22 7/16" = 510 x 570 mm)	<input type="radio"/>
225	600-151 + 600-153 – Scissor lifting table to be mounted on the planer table	<input type="radio"/>

General

-	Extraction connection Ø in mm	140
-	Weight kg (with standard configuration)	812

Packaging

221	Preparation for container transport exact 51, exact 63	<input type="radio"/>
223	IPPC packaging	<input type="radio"/>

exact 51

FORMAT 4®

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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