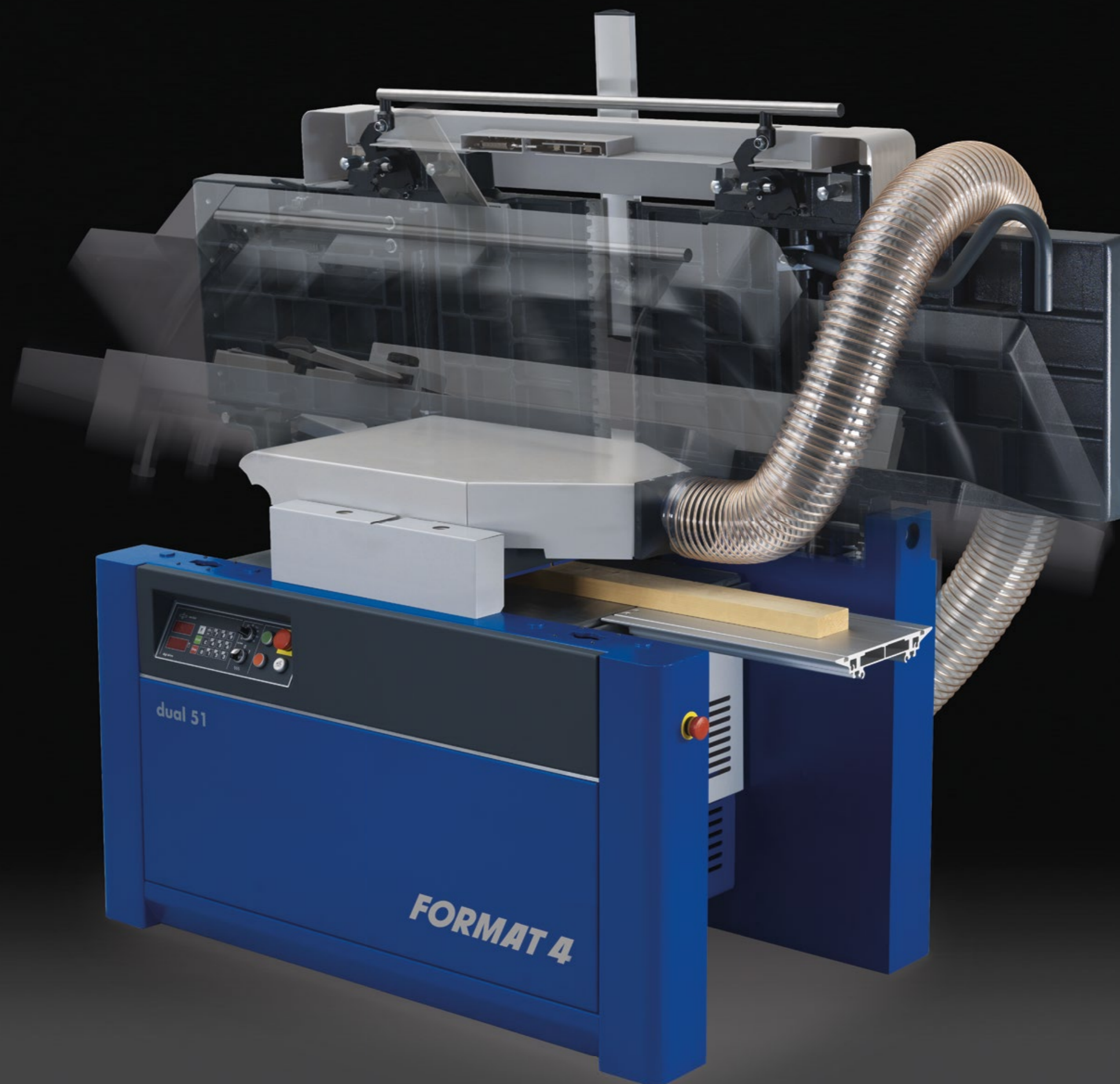


FORMAT 4®

dual 51

PERFECT PRECISION
AT THE TOUCH
OF A BUTTON

FORMAT 4®



dual 51

Perfect precision at the touch of a button



Solid wood



Are you looking for a planer thicknesser that meets your professional requirements in regards to precision, reliability and ease of use? The Format4 dual 51 sets new standards in all areas. Solid ribbed planing table and a 4 column thicknessing table guide system ensure high stability.

The fully enclosed planer table adjustment system, 120 mm cutting diameter and patented Format4 system cutterblock guarantee perfect planing results. An intuitive operating concept reduces the effort in changing from jointing to planing to a minimum, increases the productivity and ensures that the dual 51 is a profitable investment for workshops, businesses and industry.



dual 51

- » Intuitive, synchronised opening of the dual planer table
- » The Format4 planing fence: A masterpiece of stability, precision and space saving design
- » Highest operational safety, simplest operation: The new Format4 planer guard
- » The Format4 system cutterblock has guaranteed perfect planing results for decades
- » The innovative Silent-Power® spiral knife cutterblock cuts noise emission by half

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



Silent-Power®

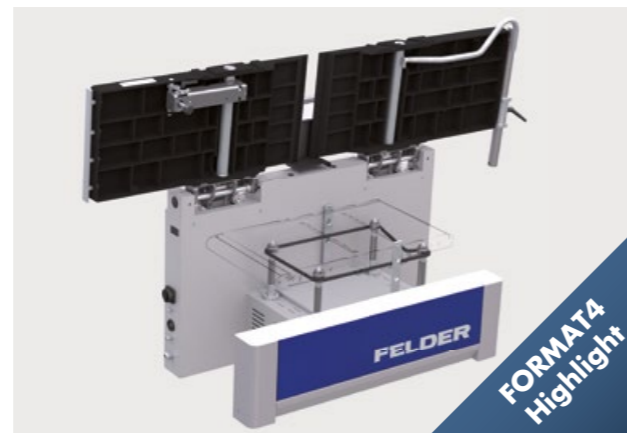
The Silent-Power® Spiral Cutterblock reduces noise emissions during planing by more than half. Specially developed tungsten carbide blades with their constant pulling cut, guarantee a tear free planing finish of every wood type. The optimized extraction hood ensures that the noticeably shorter chips are effectively extracted and land considerably more compact in the dust bags. This more compact filling of the chip bags, saves you from having to frequently change the bags. Maximum reliability and highest level of planing quality – the innovative new development from Format4 offers a planing system with knives that have a usable life up to 20 times longer when compared to a conventional HSS-blade system. Damaged blades can be exchanged individually, removed and replaced with a few turns of the hand. The advantages at a glance

- » Sensationally quiet, noise emissions halved
- » Blade life up to 20 times longer
- » Four highly precise cutting edges on each knife



Intuitive Format4 changeover concept

The tried and tested Format4 operating concept reduces the time required for changeover from planing to thickening to a minimum. The intuitive table clamping system makes it possible to synchronously unlock and lift the planing tables with one hand movement, industrial springs assist in the opening.



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 thickening table into position with an accuracy of a tenth of a millimetre.

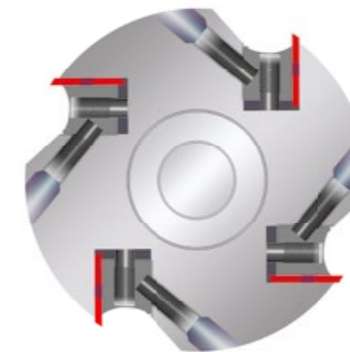
FORMAT 4®

Details



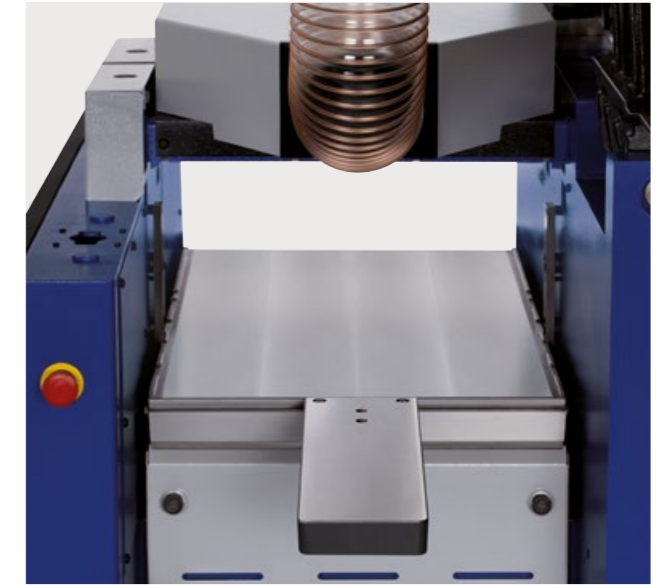
Change the blades in record time

For decades, the Format4 system with its disposable, reversible planing knives has proven its value. Perfectly manufactured and adjusted in the factory, there are no further adjustments needed and no unnecessary expensive adjusting tools are required.



See and feel the incredible smooth finish!

120 mm cutting diameter and unique Format4 planer knife system with reversible blades – for many decades a guarantee for excellent planing results. Maximum blade life and minimum cost of the blades ensure considerable savings.



Maximum planing height for professional requirements

With the amply dimensioned thickening height of up to 254 mm, even processing large solid wood trusses is simple and effort free.



A clean solution

The aerodynamically optimized construction of the dust extraction hood with its ample chip space guarantees an ideal chip extraction and clean working surface.



Power-Drive

The fully electrical "Power-Drive" planer table control offers the most precise adjustment and repeat accuracy. With a turn of the knob, you can quickly adjust the thickening height, then fine-adjust using the button. With the integrated LED-display, you can easily see the current actual value.



„Digi-Drive“

The programmable "Digi-Drive" planing table control makes it possible to enter the planing height using the numeric keypad and the planing bed positions itself automatically and precisely. Two integrated LED displays show the current target and actual values. To optimise production you can save incremental measurements and individual thickening table positions.

Safe and productive – the Format4 power feeder

A power feeder increases the safety and comfort when planing without reducing the planing width. The constant pressure ensures a perfectly smooth and even planing finish.



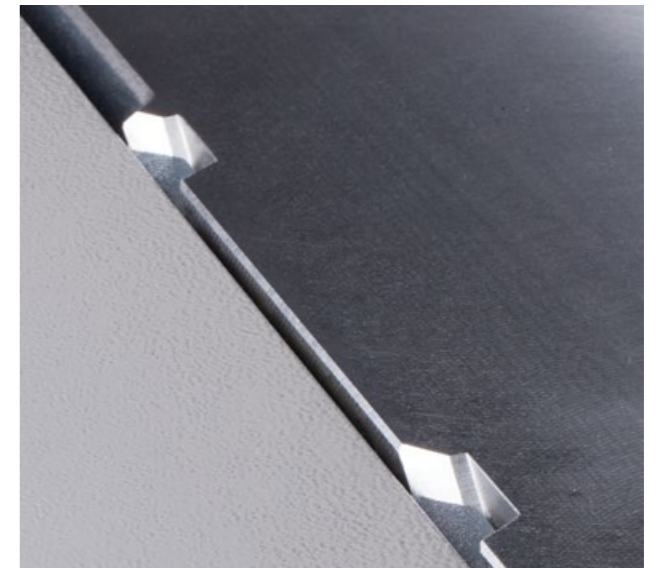
Variable infeed

Regardless of the type of wood and grain, the variable feed speed of between 4–16 m/min always guarantees a perfect planing result.



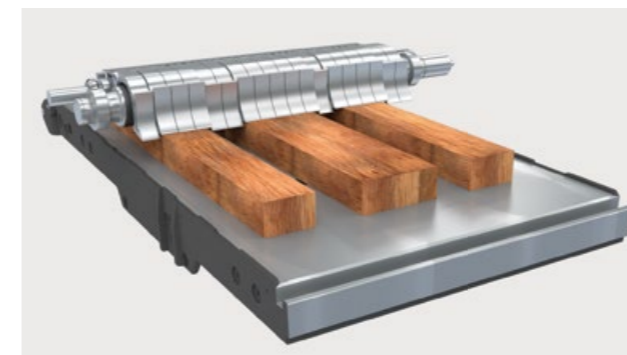
Depth of cut quick adjustment

With the new ergonomically shaped depth of cut adjustment handle, you can adjust the depth of cut quickly and precisely.



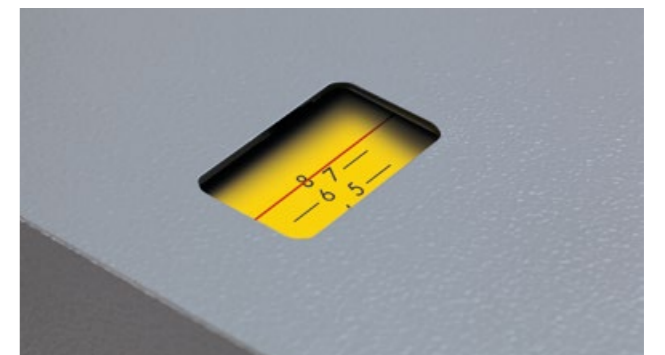
Patented planer adjustment system

Adjustment precision. This is ensured by the patented planing table adjustment system which has prismatic guides.



Spring loaded segmented pressure beam

A recommended option when planing with a small depth of cut, with very thin workpieces or workpieces with different thicknesses.



Adjust the depth of cut

The depth of cut can be adjusted and set at any position up to 8 mm. The integrated lens makes it possible to accurately read the setting, ensuring exact results.



Format4 Planer Guard

Maximum operational safety and an unprecedented ease of use. The space saving jointer guard integrated into the machine chassis also stabilizes the workpiece when jointing and beveling the narrow edge.



The tiltable Format4 auxiliary fence

When processing thin or narrow workpieces the new tiltable auxiliary fence attached to the planer fence, guarantees a safe and comfortable planing operation.



Practical added value with the Format4 table extension

With the proven Format4 table extension systems, you can extend your thickening table quickly and without tools by up to 1,000 mm.



Stability, precision and space saving with the Format4 planing fence

A masterpiece of stability, precision and space saving design – the innovative parallelogram system on the Format4 planing fence allows you to be able to position your machine directly next to the workshop wall, without restricting the planing width. The planer fence can be tilted to any position between 90°–45°, the planer fence will always remain flush with the jointing table.

Technical specifications

Electrics

	dual 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
14 3-phase CEE coupling for additional equipment with time-delayed connection and emergency stop (essential for the use of a power feeder)	O

Planing unit and cutterblock

30 Planing width in mm	510
32 Professional planer fence with parallelogram adjustment, fence size 1,300 x 170 mm	S
34 Aigner combination planer fence with auxiliary fence and parallelogram adjustment, fence size 1,300 mm	O
36 Standard EURO planer guard	S
37 Comfort EURO planer guard	O
38 SUVA planer guard	O
39 4-knife Format-4 system cutterblock	S
40 4 knife Standard cutter-block using traditional single sided planer knives	O
41 4 knife TERSA cutter-block	O
44 Silent-Power spiral cutterblock	O
- Overall planer table length in mm	2250
- Number of knives - Silent-POWER spiral cutterblock	77
- Infeed planer table length in mm	1100

Thickener and feed gears

53 Electric height adjustment for thickening table ("Power-Drive" D1)	S
55 Electronic digital display for the thickening table adjustment;	S
57 Variable speed 4–16 m/min	S
59 2 adjustable rollers under the thickening table, adjustment range 0–0.5 mm	O
60 Option to preselect "Digi-Drive" D1 dimensions for position control of the thickener table height	O
61 Rubber infeed roller 510 mm (#62)	O
62 Rubber outfeed roller 510 mm	O
63 Spring loaded segmented pressure beam, infeed	O
- Thickening width in mm	504
- Min.-max. thickening height in mm	3–254 mm
- Min. workpiece length in mm	250
- Maximum depth of cut in mm	8

Important accessories		dual 51
210	Table extension coupling system for planer tables 510 mm	<input type="radio"/>
211	Thicknesser table workpiece roller on the infeed side	<input type="radio"/>
212	Socket for feeder mount	<input type="radio"/>
224	Table extension with workpiece roller for the thicknesser table (510 x 570 mm), limited to a maximum of 5 mm planing depth!	<input type="radio"/>

General		
-	Extraction connection Ø in mm	140
-	Working height in mm	890
-	Weight kg (with standard configuration)	900

Packaging		
221	Preparation for container transport dual 51, plan 51	<input type="radio"/>
223	IPPC packaging	<input type="radio"/>

Product range

Sliding Table Panel Saws

kappa 590 e-motion/x-motion kappa 550 e-motion/x-motion kappa 550 kappa 450 x-motion kappa 450

Shapers

profil 92 M e-motion profil 45 M/x-motion profil 45 Z/x-motion

Planer

dual 51 plan 51L exact 63 exact 51

Edgebanders

tempora F800 60.12 e-motion tempora F600 60.06L tempora F600 60.06L glueBox tempora F400 45.03/L

Wide Belt Sanding Machines

findustry 1352/1353/1354 finish 1352/1353 modular finebrush 1353/1355

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 centres

c-express 920 classic creator 950 D-Jet profit H350R/H500R profit H200R/H300R

Nesting-CNC Machining Centres

profit H150/100 profit H80I profit H08

Industrial Panel Saws

kappa V60/V80 kappa V60 classic kappa automatic classic kappa automatic 85/100 edition

Vacuum panel lifter Return systems Feeding Units

v-motion/classic u-motion classic u-motion professional l-motion robot-motion

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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