

**FORMAT 4<sup>®</sup>**

**kappa automatic classic**  
THE COMPACT PRESSURE BEAM  
SAW FOR EFFICIENT CUTTING



**FORMAT 4<sup>®</sup>**



## The compact pressure beam saw for efficient cutting



Panel material



Plastic



The kappa automatic classic Format4 panel and pressure beam saw fulfils the individual requirements of the discerning woodworker with efficient panel sizing and an excellent price/performance ratio. When compared to saws which offer the same cutting length, the kappa automatic classic requires two square meters less installation space.

The generous basic equipment of the beam saw and pressure beam saw convinces with cutting lengths of 3.200 mm and 4.300 mm, two moveable support tables with air cushion function and a pressure device for an exact right angle cut when crosscutting. For perfect, chip free results, the main saw aggregate is equipped with a 7.5kW motor, has a max. 320 mm saw blade diameter and 68 mm saw blade projection. The main saw with a 7.5 kW motor, 320 mm saw blade diameter and 68 mm blade projection is supported by a separate scoring unit with 1.1 kW, 150 mm scoring blade diameter and the possibility of adjustment during operation. The intuitive touchscreen control concept ensures a quick and simple control of the machine.



### kappa automatic classic

- » Cutting length: 3.200, 4.300 mm
- » Saw blade diameter 320 mm
- » Saw blade projection: 68 mm
- » Variable feed speed adjustment 1-40 m/min
- » Control: 15" TFT touchscreen
- » Motor power 10 HP (7.5 kW)

### FORMAT4 Premium Machines for Premium Requirements

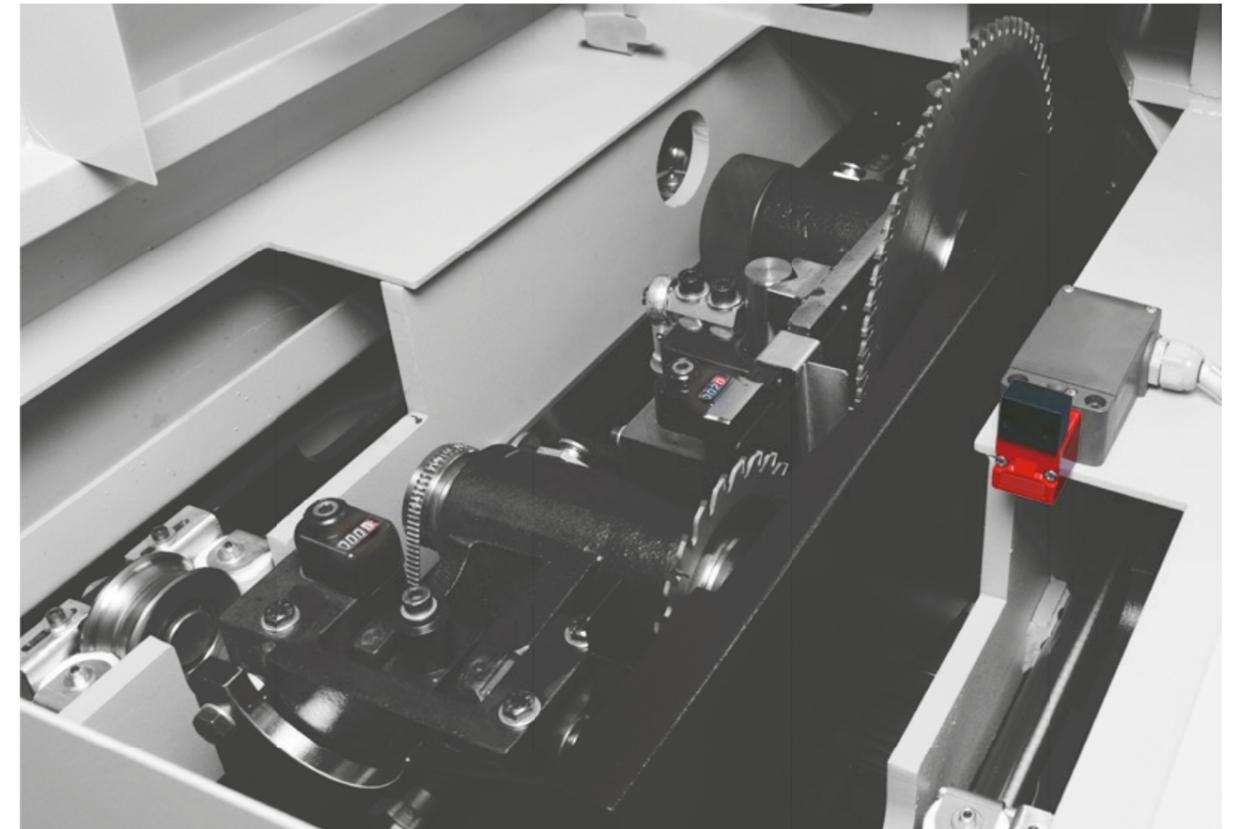
- » Constantly high performance in industrial continuous operation
- » Customer specific optimised production solutions
- » Solid design with premium components
- » Wide range of configuration packages with high-tech solutions
- » Complete engineering precision
- » Premium user comfort
- » Quality and precision from AUSTRIA
- » 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



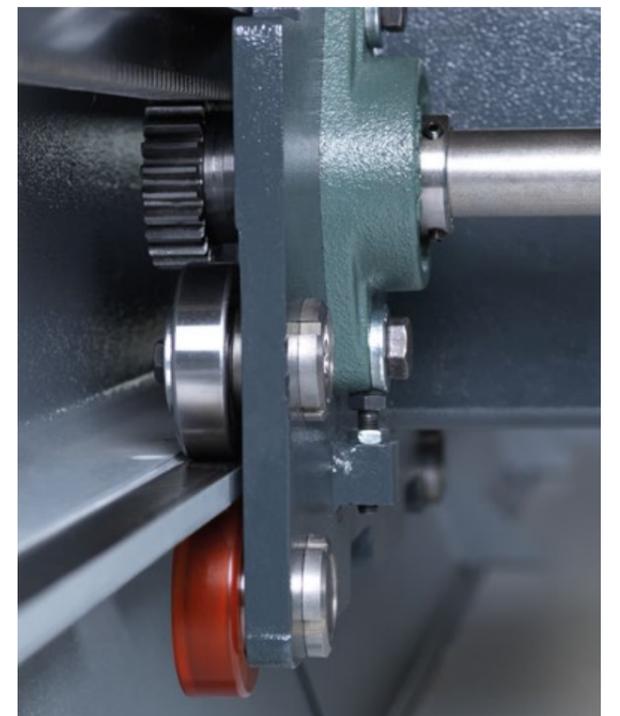
### Innovative front lifting table system

To take a further step towards automation, the kappa automatic classic can be equipped with the new, innovative front lifting table system. The standard side tables are replaced by solid, fully automatically controlled scissor lifting tables. This guarantees an enormous increase in efficiency and greatly enhances operating comfort.



### Saw carriage with main and scoring unit

The saw carriage with main blade and scoring blade running on ground and hardened round guides ensures an extremely smooth movement and an exact cutting angle.



### Double measuring system on the material pusher

The panel pusher, made from solid steel is guided on both sides and is equipped with a magnet measurement band system. The combination of a highly precise servomotor and solid material grips ensures maximum repeatability is achieved.

# Details



### Simple operation

The simple design of the control panel and the clearly laid out menu guidance of the software control with a Windows based system, is intuitive in its operation. Furthermore, the flexible operating terminal and the well-arranged viewing window in the pressure beam keep everything important in view at all times. The kappa automatic can be equipped with Ardis cutting optimisation software. As an option, it can also be equipped with a label printer.



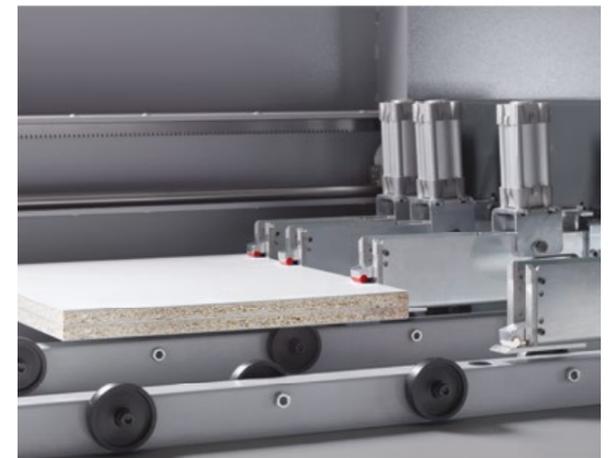
### Automatic front lifting tables

The move towards automation with automatic front lifting tables. Stacks of panels with up to 240 millimetres can be temporarily stored here and processed one plan at a time. In addition, it is possible to load a pre-commissioned panel stack and complete separate cutting plans with minimal set-up time. Here, the thickness of the panel is independent.



### Roller track

The roller track supports the material pusher transport of panels and guarantees a precise feed of the panel material to the cutting line.



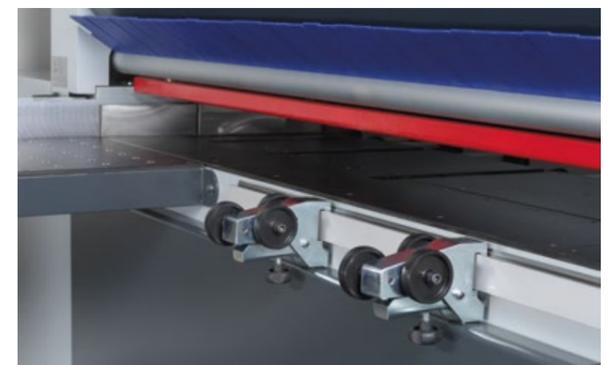
### Workpiece transport

Solid steel clamps, pneumatically controlled, guarantee a safe and damage-free clamping of panel stacks (opening height 80 mm) and individual small panels.



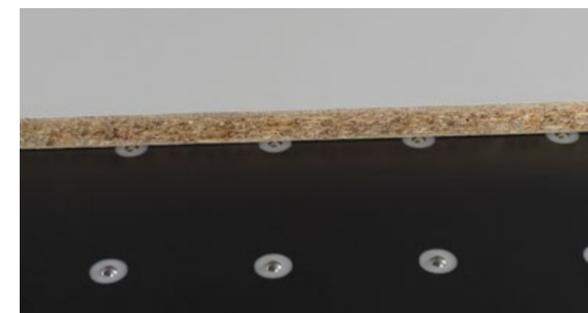
### Additional operating terminal on the air cushion table

With the additional operating terminal on the air cushion table, you save time and increase productivity.



### Material pusher towards the cutting axis

With the material pusher towards the cutting axis, panels can always be loaded reliably and without damage, regardless of the thickness of the material.



### Individually controllable air cushion tables

Three separate fans are used for the air cushion function on the side tables. Individual control ensures convenient panel handling and resource-efficient application at all times.



**Saw carriage drive**

The constant speed of the saw carriage is variable and can be set between 1–40 m/min from the control panel. The rack and pinion system on which the carriage runs guarantees a constant cutting quality regardless of the material being processed.



**Perfect process reliability**

In combination with the cutting optimization software, a label can be printed for each workpiece with various information (order number, intended use, CNC program, which side is to be put through edgebander).



**Pressure device**

The pressure device with rollers presses the workpiece against the fence and guarantees an exact 90° angle (for workpiece widths 50–1.200 mm).



**Pressure bar**

The pressure beam lowers itself before making the cut and presses the workpiece onto the saw table. This pressure holds the workpiece during the cut and can be manually regulated up to max. 3 bar. The pressure beam also carries out the extraction of the dust and chips created by the saw blade.

**Technical specifications**

Electrics (CNC)		kappa automatic classic
1	3x 400 V motor voltage, 50 Hz motor frequency	S
2	3x 230 V motor voltage, 60 Hz motor frequency	O
8	Motor 7.5 kW (10.0 HP) S1, 4000 1/min	S
Cutting lengths and pressure beams		kappa automatic classic
-	Cutting length 3.200 mm, (material movement length 3.200 mm)	S
-	Cutting length 4.300 mm (material movement length 3.200 mm)	O
-	Pneumatically controlled pressure beam	S
-	Contact pressure pneumatic adjustable up to max. 3bar	S
Sawcarriage		kappa automatic classic
-	Cutting direction towards the fence	S
-	Variable carriage speed adjustment 1 - 40m/min	S
-	Return speed 40 m/min	S
-	Main saw blade Ø 320 mm, saw blade projection 68 mm	S
22	Electric, variable cutting height adjustment (with groove function)	O
-	Scoring unit 1.1 kW, lowers pneumatically	S
-	Scoring saw blade Ø 150 mm	S
Mitre and support tables		kappa automatic classic
-	Mitre table left with air cushion, 2.300 x 600 mm	S
-	2.000 mm fence plate on the left hand angle table	S
31	2 pcs. support tables 2.300 x 600 mm	S
32	Additional support table with air cushion, 1.500 x 600 mm	O
33	Additional support table with air cushion, 2.300 x 600 mm	O
-	Moving device for the side tables	S
Material pusher and package clamps		kappa automatic classic
-	Material pusher travel distance in mm	3.200
-	Number of roller tracks as a support behind the machine table	6–7
-	Number of single-finger packet clamps, opening height 80 mm	6–7
-	Packet clamping pressure pneumatic adjustable up to max. 3bar	S
-	Material pusher (speed forwards/back) 25/40 m/min	S
39	Lateral pressure device 50–1.200 mm	S
18	Rear material pusher extension to 4.200mm instead of 3.200mm	O
-	Pressure of the contact pressure device pneumatic adjustable up to max. 3bar	S
Machine control system		kappa automatic classic
101	PC control with Windows 10 operating system	S
-	Control panel with 15" colour touch screen	S
80	Connect hardware and software via Internet. The Internet connection must be made available on the customers PC	S
81	Switchboard on the air cushion table	S
61	Thermal label printer for interactive label printing	O

<b>Liftingtable</b>	<b>kappa automatic classic</b>
95 2 pieces front lifting table	○
<b>Packages</b>	<b>kappa automatic classic</b>
100 Performance Package (9.0 kW S6, cutting height 80 mm, 30% more efficiency due to reduced cycle length)	○
<b>Important accessories</b>	<b>kappa automatic classic</b>
03.07.35572 – HW panel dividing saw blade Ø= 350 mm, W= 4.4/3.2 mm, d= 30 mm, Z72 TZ/FZ/FZ	S
03.07.32060 – HW panel dividing saw blade Ø= 320 mm, W= 4.4/3.2 mm, d= 30mm, Z60 TZ/FZ	S
03.10.15028 - Conical HW scoring saw blade Ø= 150 mm, B= 4.3-5.5 mm, d= 20 mm, Z28	S
<b>General</b>	<b>kappa automatic classic</b>
Extraction connection Ø in mm	120/100/100
Weight (Kg)	3.500–3.900

## 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

**Spindle Moulders**

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

**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

NEW   NEW

# **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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