



# kappa automatic classic

## The compact beam saw for efficient cutting

The FORMAT-4 kappa automatic classic beam saw fulfils the individual requirements of the discerning woodworker with efficient panel sizing with an excellent price/performance ratio. Compared to saws with the same cutting length, the kappa automatic classic requires a total of two square metres less space.



Saw carriage with main and scoring unit



Highly precise saw carriage drive



Double measuring system on the material pusher



Totally simple operation



Workpiece transport



Roller track



fg.am/kaceng



### kappa automatic classic

- Cutting length 3200/4300 mm
- Saw blade projection of 68 mm
- 15" touch screen control
- Variable speed from 1–40 m/min.

### Pressure device

The pressure device with rollers presses the workpiece against the fence and guarantees an exact 90° angle (for workpiece widths 50–1200 mm).

### Pressure bar

The pressure beam lowers itself before making the cut and presses the workpiece onto the saw table. The pressure holds the workpiece during the cut and can be adjusted up to a maximum of 3 bar. The pressure beam also ensures that the chips that are thrown upwards are extracted.

## New control panel and Format-4 software

The new, even clearer control panel with a 15" touch screen fits perfectly with the machine design and guarantees ergonomic and stress-free working. Alongside ARDIS as a modular structured cutting optimisation software, the simple and intuitively operable FORMAT-4 software supports simple and precise operation with maximum productivity. On request, a label printer can be added as well.





# kappa automatic 60 | 80 | 100

## Redefining productivity

Beam saws are first and foremost in the production process. The Format-4 kappa automatic beam saws guarantee the shortest cutting cycles combined with perfect cutting results. The modular based cutting optimisation program with barcode labelling for further processing, guarantees maximum process reliability. Upgrade options offer customer specific adaptation to individual working processes.



Saw carriage with main and scoring unit



Perfect cutting results – new cutting direction



Maximum repeatability



Highly precise saw carriage drive



Ergonomic control panel with 24" screen



Veneer fences if required

## Chip free, precise cutting quality



### 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. The cutting height can be adjusted manually, pneumatically or using electro-motors.

### Saw carriage drive

The constant speed of the saw carriage is variable and can be set between 5–100 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.

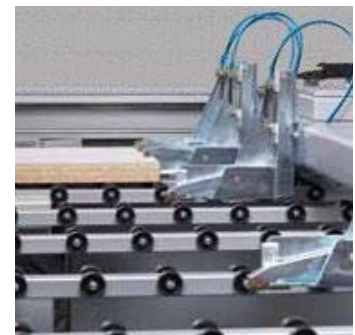
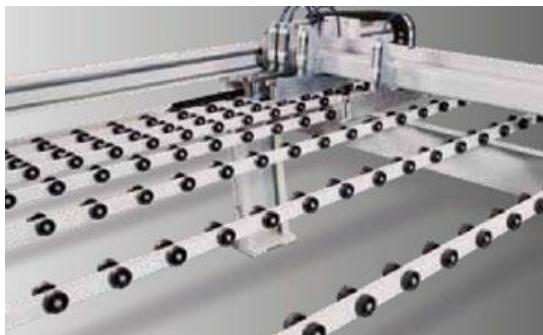


### kappa automatic

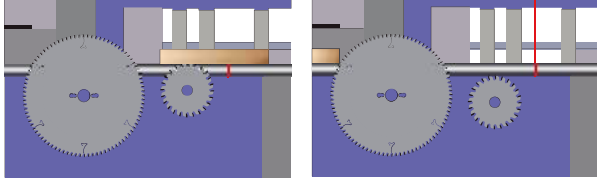
- Cutting length 3200/3800/4300 mm (depending on the model)
- Control: 24" TFT display screen

### 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.

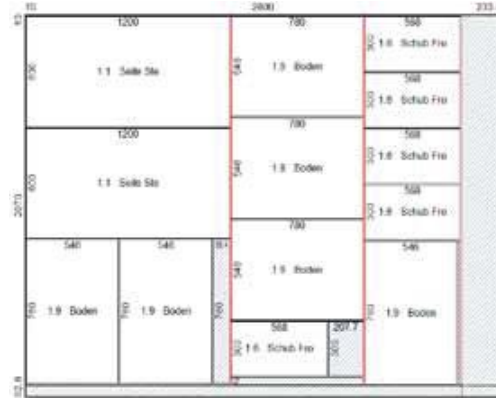


## Short cutting cycles



### Automatic cutting length recognition

A laser sensor on the saw carriage identifies the end of the panel and stops the carriage automatically once the cut is complete. The saw blade and scoring blade drop automatically below the level of the table and move back to the starting position. Cutting cycles are practically reduced to the time it takes to load and unload the material.



### Cutting optimisation software

The modular cutting optimisation software uses the material list to calculate the most economic cutting process taking the cutting times and amount of waste into consideration. Compatible with the majority of construction and design programs it is also possible to calculate the amount of material and length of edge required, cutting times and/or be connected to a warehousing system with material administration.



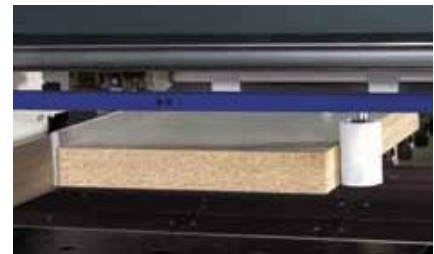
### Effective loading using a lifting table/panel warehousing system

With the lifting table/panel warehousing system attached to the rear of the machine, it makes it possible to load the saw, panel by panel. The panels required can be loaded directly from the stack of panels onto the saw.



### Cutting stacked panels

The saw blade projection of 55 or 80 mm in combination with a powerful drive unit offers the possibility to cut several stacked panels in one run which helps to increase production speed significantly.



### 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).

## 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. Connecting the machine control to existing systems or networks is of course possible. The kappa automatic can be equipped with Ardis cutting optimisation software. As an option, it can also be equipped with a label printer.



# Maximum repeatability

Teildaten/Kontrolle		Wert	
Projektschreibung		Maler Dun Berpate	
Datum		24/05/2017	
Maschine			
Zeichnung			

Teillisten (1/1)					
Pos	Menge	Länge	Breite	Bezeichnung	Material
1	2	1200	600	1.8 Stahl Borsten	Agfa VMS
2	2	600	300	1.8 Stahl Probe	Agfa VMS
3	1	700	540	Stoß	Agfa VMS

## Saved cutting plans

Cutting plans from previous projects can be saved and later recalled. By using the "multiplier" function, the workpiece can be reproduced as needed.



## Double measuring system on the material pusher

The material pushing unit is equipped with two measuring systems that constantly monitor each other. The combination of a highly precise servomotor and solid material grips ensures maximum repeatability is achieved. The measuring system is separate to the drive system and is completely free from wear and tear.

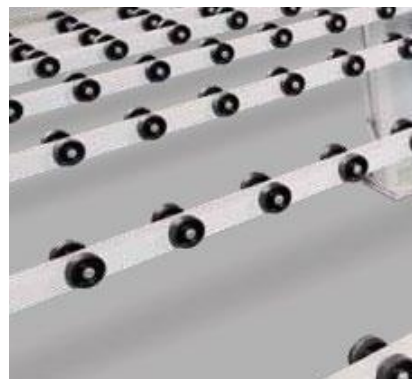
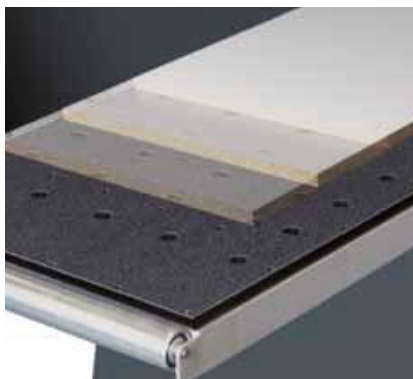
# Perfect process reliability



## Label

In combination with the cutting optimisation 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).

# Safer product effect



## Material compatible handling

Unloading tables with air cushion technology guarantee a smooth handling of the material and a constant production flow especially when processing stacks of panels. Wheel conveyors situated around the material pusher ensure a gentle positioning of the material. For particularly pressure sensitive material the clamping pressure of the clamps can be adjusted using a manometer.

## Flexibility

Optimised additional equipment enables the perfect customisation to the customer specific manufacturing process.



### Veneer fences

Pneumatic veneer fences are available for cutting veneered panels which have a veneer projecting edge or laminated panels.

Electrical cutting height adjustment with groove function

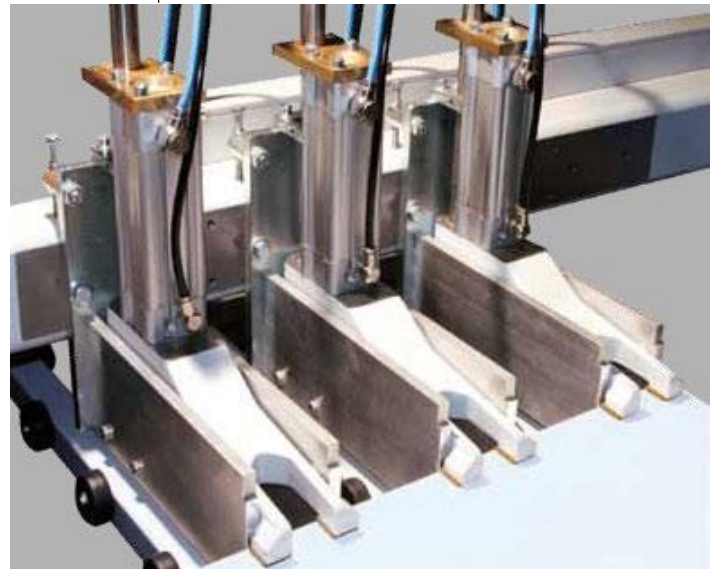


Variable speed control of the main saw blade 2,000–6,000 rpm

Additional unloading table



Additional clamps



# Technical data



	kappa automatic classic	kappa automatic 60	kappa automatic 80	kappa automatic 100	kappa V60	kappa V60 classic
Cutting length 2,500 mm	-	-	-	-	-	W
Cutting length 3,200 mm	W	S	S	S	○	W
Cutting length 3,800 mm	-	-	-	○	-	-
Cutting length 4,300 mm	W	-	○	○	-	-
Cutting length 4,200 mm	-	-	-	-	S	W
Cutting length 5,300 mm	-	-	-	-	○	-
Cutting length 6,080 mm	-	-	-	-	○	-
5.5 HP (4.0 kW)	-	-	-	-	S	S*
7.5 HP (5.5 kW)	-	S	-	-	-	-
10.0 HP (7.5 kW)	S	-	-	-	-	-
12.0 HP (9.0 kW)	-	-	S	S	-	-
18.0 HP (13.5 kW)	-	-	○	○	-	-
Travel distance of the material pusher	3,200/4,300 mm	3,200 mm	3,200/4,300 mm	3,200/3,800/4,300 mm	-	2,500/3,200/4,300 mm
Saw blade diameter	320 mm (protrusion) 68 mm	320 mm (protrusion) 60 mm	320 mm (protrusion) 80 mm	355 mm (protrusion) 100 mm	250 mm	250 mm
Length [L]	5,150 mm	5,430 mm	5,430-6,530 mm	5,430-6,530 mm	5,600 mm	-
Width [W]	6,600 mm	6,607 mm	6,607-7,705 mm	6,607-7,705 mm	2,985 mm*	-
Weight (depending on equipment, without packaging)	3,500 kg	4,800 kg	5,100 kg	5,950 kg	910 kg	750 kg
Extraction connection Ø	100+100+120 mm	100+100+120 mm	100+100+120 mm	100+100+120 mm	100+100 mm	100 mm

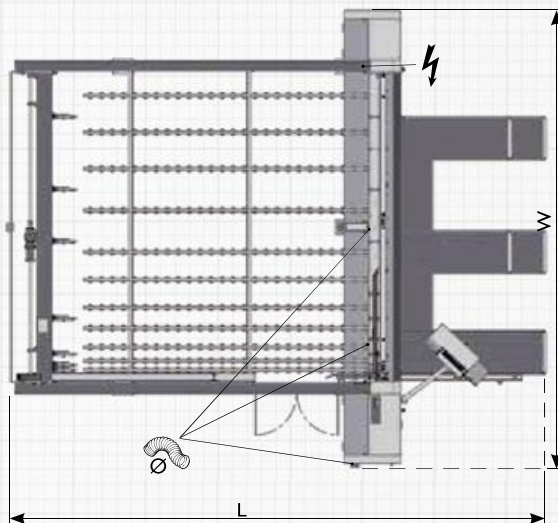
S ... Standard equipment    ○ ... Option    W ... According to requirements    - ... not available    \*without strip fence



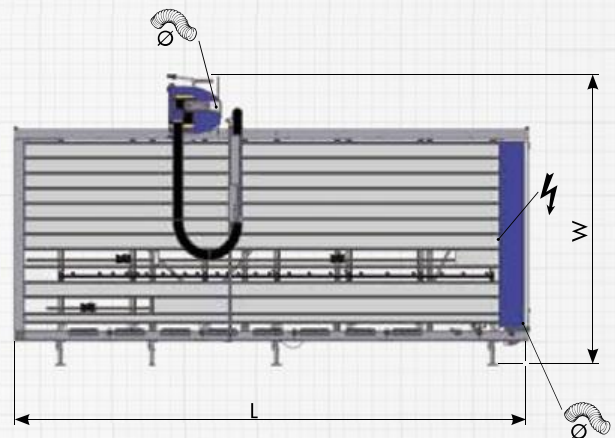
Further information about the technical data, individual configuration options and all noise level values can be found on the internet at [www.felder-group.com](http://www.felder-group.com)

## Space requirement

Scale  
1:75



Symbolic image kappa automatic 60, kappa automatic 80, kappa automatic 100



Symbolic image kappa V60