



INDUSTRY PANEL SAWS



2011|2012



www.format-4.com

Panel Saw kappa automatic 75



Simple operation by a single operator

Air cushion tables for feeding material, material sliders and the optimisation software by ARDIS ensure easy operation by just one person. The kappa automatic is available in cutting lengths of 3200 mm or 4300 mm.

- Swivelling and tiltable control panel
- Saw motor 9 kW
- Saw blade diameter 320 mm
- Saw blade projection 80 mm
- Cutting length 3200 mm/4300 mm

Highlights

- The saw carriage moves along a set of hardened and polished rollers.
- Accurate finishing cuts for many years thanks to prism roller guides for the material slider.
- Absolutely parallel cuts due to the material slider which is driven by a precision gear rack.
- High measurement accuracy as the measurement is taken by a magnet measurement system.
- Short cut cycles as a result of optimised saw unit traverse movements.
- Automatic, continuous cutting height adjustment guarantees correct saw blade projection at all times. (Option)
- The automatic trimming facility facilitates the trimming to length of components. (Option)



Impressive details

kappa automatic

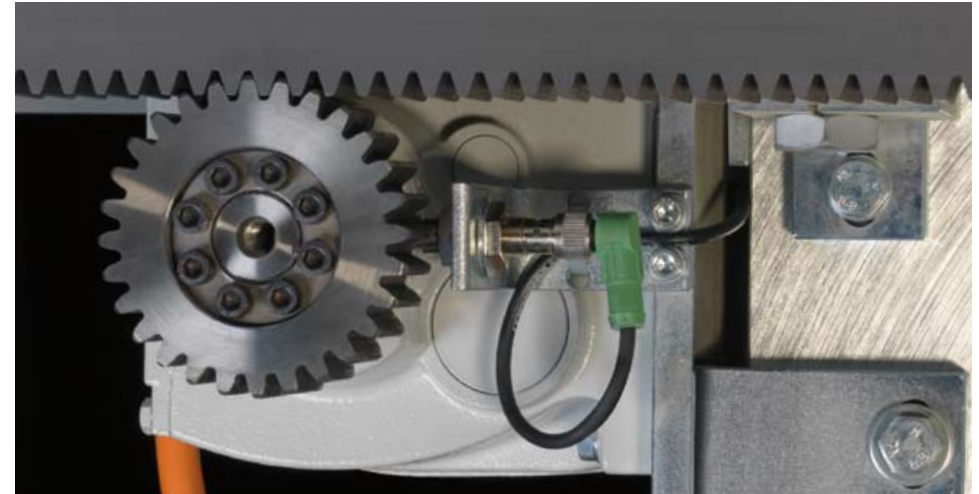
Pressure device

The automatic pressure device guarantees that the workpieces lie precisely against the mitre fence when cross-cutting (workpiece width 50–1200 mm).



Perfect cutting results

A main and scoring saw blade guarantee perfect and splinter-free cutting results up to a cutting height of 64 mm.



Saw carriage drive

A highly precise gear drive and gear rack drive system results in an extremely smooth operation of the saw carriage with cutting speeds of up to 100 m/min.



Saw carriage with main and scoring unit

Polished rollers ensure that the saw carriage runs as smoothly and accurately as possible. For greater precision, height adjustment is carried out via linear guides. Depending on the desired options, cutting height adjustment can be continuous and either pneumatic or electronic. Powerful motors from a renowned European manufacturer ensure reliable performance of the main saw unit and scoring unit.

Machine control system

Easy operation is guaranteed by the simple design of the control panel and clear menu configuration of the control software based on the Windows design. A connection of the machine control to existing systems or networks is available. The kappa automatic can be equipped with the Ardis cutting optimization software. If required, the panel saw can also be equipped with a label printer.



Impressive details



Material slider

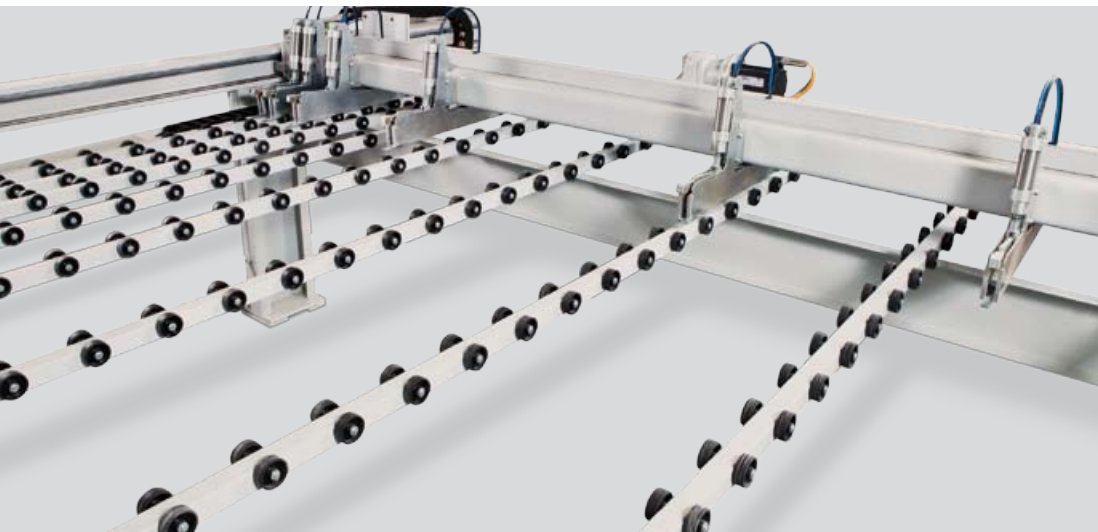
The material slider is guided via a prismatic roller on a hardened cylindrical guiding bar. A servo-motor guarantees that the gear system and the gear rack system operate synchronously, resulting in optimal speeds (forward travel: 25 m/min, backward travel 80 m/min).

The position of the material slider is determined via a high-resolution magnetic tape system. The measurements are taken separately from the drive system and is free of wear and tear.



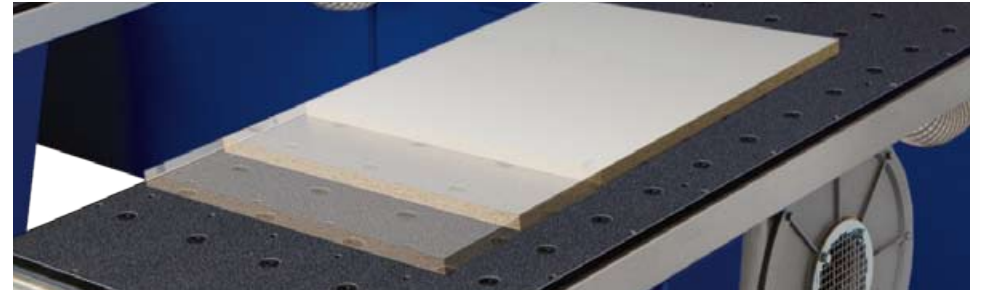
Roller track

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



Workpiece transport

Massive steel collet chucks, pneumatically controlled, guarantee a safe and damage-free clamping of panel stacks (opening height 80 mm) and individual small panel materials.



Air-cushion tables

Solid air-cushion tables facilitate machining heavy panel workpieces and panel stacks. Due to the special steel structure, the air-cushion tables are torsion resistant even under the heaviest loads.

Optional: Veneer fences

Pneumatic veneer fences are available for panel cuts of veneered panel materials with a veneer projecting edge or laminated panels.



Technical specifications

kappa automatic

POS		KA55 3200x3200	KA75 3200x3200	KA75 4300x4300
	Electrics			
001	3x 400 V motor voltage, 50 Hz motor frequency	S	S	S
002	3x 230 V motor voltage, 60 Hz motor frequency	O	O	O
	Motor power 7.5 HP (5.5 KW)	S	-	-
	Motor power 12 HP (9 KW)	-	S	S
011	Continuous speed regulation for main saw blade, 2000–6000 rpm	-	O	O
012	Spraying unit to assist in processing light metals or plastics	-	O	O
013	Air conditioning for electrical cabinet and PC	O	O	O
	Cutting length and pressure beam			
	Cutting length 3200 mm (Material sliders 3200 mm)	S	S	-
	Cutting length 4300 mm (Material sliders 4300 mm)	-	-	S
	Pressure bars are pneumatically controlled	S	S	S
	2 pressure settings via the controls	-	S	S
	Saw carriage			
	2 feeder speeds: 30 and 60 m/min	S	-	-
	Continuously adjustable feed rate (5–100 m/min)	-	S	S
	Return speed 60 m/min	S	-	-
	Return speed 130 m/min	-	S	S
	Cutting length selection: 1200 mm or entire cutting length	S	-	-
	Cutting length controlled automatically by laser sensor on saw carriage	-	S	S
	Main saw blade Ø 320 mm, 55 mm saw blade projection	S	-	-
	Main saw blade Ø 320 mm, 80 mm saw blade projection	-	S	S
	2 cutting height adjustment settings, manual (40 mm/80 mm)	-	S	S
021	Groove program operated via controls, manual groove depth adjustment	O	O	O
022	Electronic, continuously adjustable cutting height (including groove function)	-	O	O
	1.1 kW scoring unit with pneumatic lowering	S	S	S
	Scoring unit Ø 150 mm	S	S	S
	Saw blade quick-lock (main saw + scoring unit)	-	S	S
	Work piece tables			
	Left hand table providing the right angle with air-cushion, 2000 x 600 mm	S	S	S
	2000 mm right angle fence	S	S	S
	2 additional support tables with air-cushion, 1500 x 600 mm	S	S	S
031	2 work piece tables 2000 x 600 mm instead of 1500 x 600 mm	O	O	O
032	Additional work piece table with air-cushion 1500 x 600 mm	-	-	O
033	Additional work piece table with air-cushion 2000 x 600 mm	-	-	O
	Slide-in infill tables between air cushion tables	S	S	S

POS		KA55 3200x3200	KA75 3200x3200	KA75 4300x4300
	Material slider and stack clamp			
	Material slider working range in mm	3200	3200	4300
	Number of roller tracks as a support behind the machine table	9	9	11
	Number of stack clamps with 1-finger operation, opening height 80 mm	5	6	7
	Material slider (forward/backward motion) 25/40 m/min	S	-	-
	Material slider (forward/backward motion) 25/80 m/min	-	S	S
038	Automatic start from preset trimming position detected by laser sensor behind the machine table	O	S	S
039	Automatic pressure device (50–1200 mm)	O	S	S
040	Additional package clamp at position 122.50 mm to the angle stop	O	S	S
041	Additional package clamp at position 487.50 mm to the angle stop	O	O	O
042	Additional package clamp at position 1147.50 mm to the angle stop	O	O	O
043	3 veneer fences, pneumatic control, 1-finger operation	O	O	O
044	3 veneer fences, pneumatic control, 3-finger operation	-	O	O
	Machine control			
	Electronic control with a 19" TFT-screen	S	S	S
	PC with Windows XP Professional operating system	S	S	S
	Operating hours counter; running meter; service intervals	S	S	S
051	Laser cut line indicator	O	O	O
052	Mitre cutting, operation via the controls	O	O	O
053	Auto-cut function, operation via the controls (only in combination with POS. 22)	-	O	O
061	Thermo-label printer for interactive label printing, including label editor	O	O	O
071	Cutting optimisation software "Standard Optimizer" for the machine	O	O	O
072	Cutting optimisation software "Easy Optimizer" for the machine	O	O	O
073	Cutting optimisation software "Cutting Optimiser" for the machine	O	O	O
074	Cutting optimisation software "Cutting Optimiser", for the office and machine	O	O	O
	Scissor lift table			
081	3200 x 2100 mm scissor lift table with height and positioning control	-	O	-
082	4200 x 2100 mm scissor lift table with height and positioning control	-	-	O

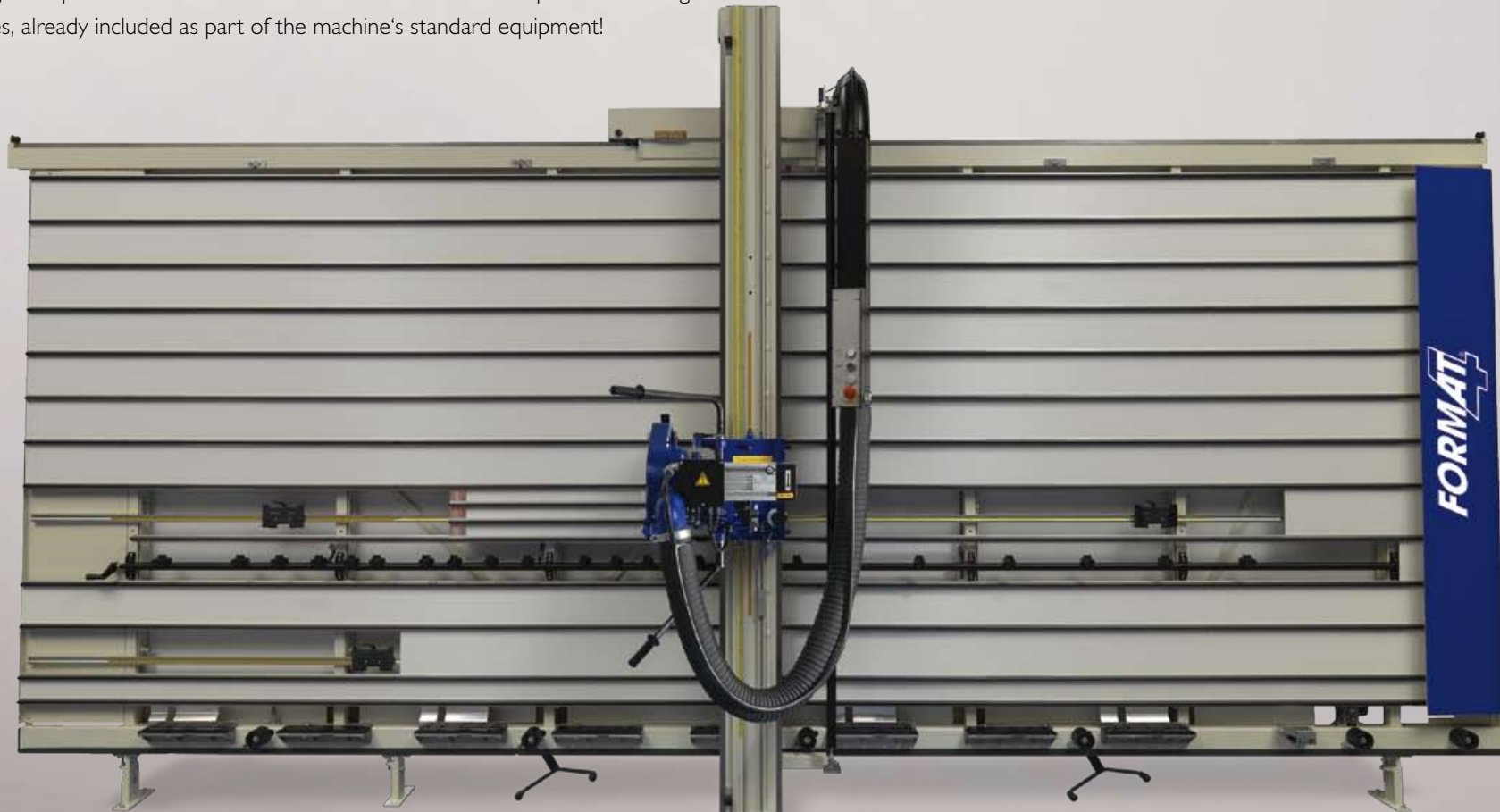
Vertical panel saw kappa V60



Powerful, accurate and space saving

The new Format-4 vertical panel saw will increase your productivity. Its robust and compact body frame guarantees high precision and efficiency with a very small workshop footprint. The solid, single piece frame construction and a saw carriage running on steel rails guarantees a cut accuracy to one tenth of a millimetre.

The handling and operation of the machine are facilitated with the help of a wide range of accessories, already included as part of the machine's standard equipment!



Technical specifications



Saw unit

The saw unit is guided on steel rails and as a result, executes cuts accurate to one tenth of a millimetre. A high-torque motor with a performance of 3 kW, a saw blade diameter of 250 mm (optionally with a scoring unit) provides a 60 mm depth of cut.



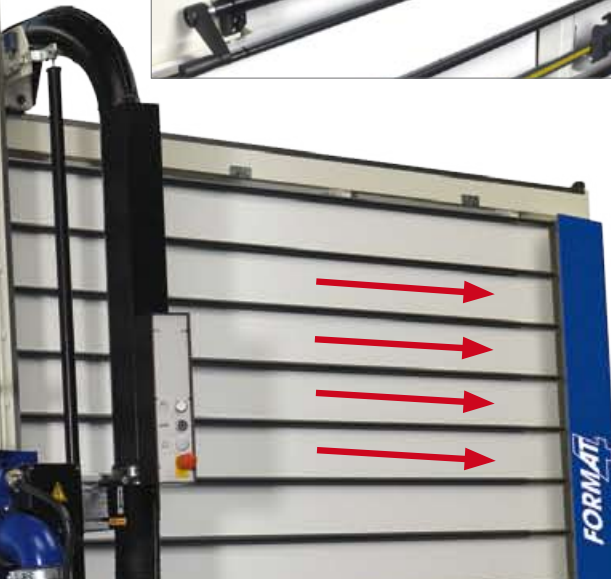
Additional fence

An additional stop is included as part of the standard equipment to help cut narrow strips to length.



Centre support

A bipartite central support designed for small workpieces runs along the total cutting length and can be easily swung out of the way when not required.



TRC dust extraction

Integrated powerful TRC dust extraction.
Dust emissions considerably below 1 mg/m^3

POS		kappa V60
	Electrics	
001	3x 400 V motor voltage	S
	4.0 HP (3.0 kW) Motor	S
	5.5 HP (4.0 kW) Motor	O
004	50 Hz motor frequency	S
	Working dimensions	
	Cutting depth 60 mm	S
	Cutting length 4200 mm	S
	Cutting length 5300 mm	O
	Vertical cutting height 2200 mm	S
	Horizontal cutting height 2080 mm	S
	Saw unit	
	Saw blade Ø in mm	250
	Saw blade speed in rpm	5300
	Scoring unit (incl. blade)	O
	General	
	Dust extraction Ø in mm	100
	Weight, kg (with average equipment)	910
	Length in mm	5600
	Width in mm	1700
	Height in mm	3000
	Additional fence	S
	Continuous centre support	S
	Mobile support for smaller work pieces	S
	Side dust channel with TRK-saw dust certification	S
	Digital measurement display for vertical cuts	O
	Digital measurement display for horizontal cuts	O
	Depth fence for slot cutting	O
	Angle cutting device	O
	Kit for processing Alucobond sandwich (without milling cutters) with depth stop	O
	Supplement for wall model (wall-mounted electrical cabinet)	O

TOP QUALITY AND LONG-LASTING PRECISION, MADE IN AUSTRIA



kappa 30

Sliding Table Panel Saw

kappa 40

Sliding Table Panel Saw

kappa 40 x-motion

Sliding Table Panel Saw

kappa 550

Premium Sliding Table Panel Saw

kappa 550 x-motion

Premium Sliding Table Panel Saw

kappa 550 e-motion

Premium Sliding Table Panel Saw



dual 51

Planer-Thickener



plan 51L

Planer



plan 51

Planer



profil 45

Tilting Spindle Moulder



exact 51

Thicknessers



exact 63

Thicknessers



profit H20/H22/H24/H20MT

CNC Machining Centres



perfect 610/710

Edgebanders



kappa V60

Vertical Panel Saw



kappa automatic

Horizontal Beam Saw



finish I102/I302

Wide Belt Sanders



HVP

Heated Veneer Press



RL 125/160/200

Clean-Air Dust Extractor



RL 250/300

Clean-Air Dust Extractor