

FORMAT 4®

kappa automatic classic

THE COMPACT PRESSURE BEAM
AND BEAM SAW FOR
EFFICIENT CUTTING



FORMAT 4[®]



The compact pressure beam and 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 125 ⁶³/₆₄" and 169 ¹⁹/₆₄", 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. 12 ¹⁹/₃₂" saw blade diameter and 68 mm saw blade projection. The main saw with a 7.5 kW motor, 12 ¹⁹/₃₂" saw blade diameter and 2 ⁴³/₆₄" blade projection is supported by a separate scoring unit with 1.1 kW, 5 ²⁹/₃₂" 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: 125 ⁶³/₆₄", 169 ¹⁹/₆₄"
- » Saw blade diameter 12 ¹⁹/₃₂"
- » Saw blade projection: 2 ⁴³/₆₄"
- » 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

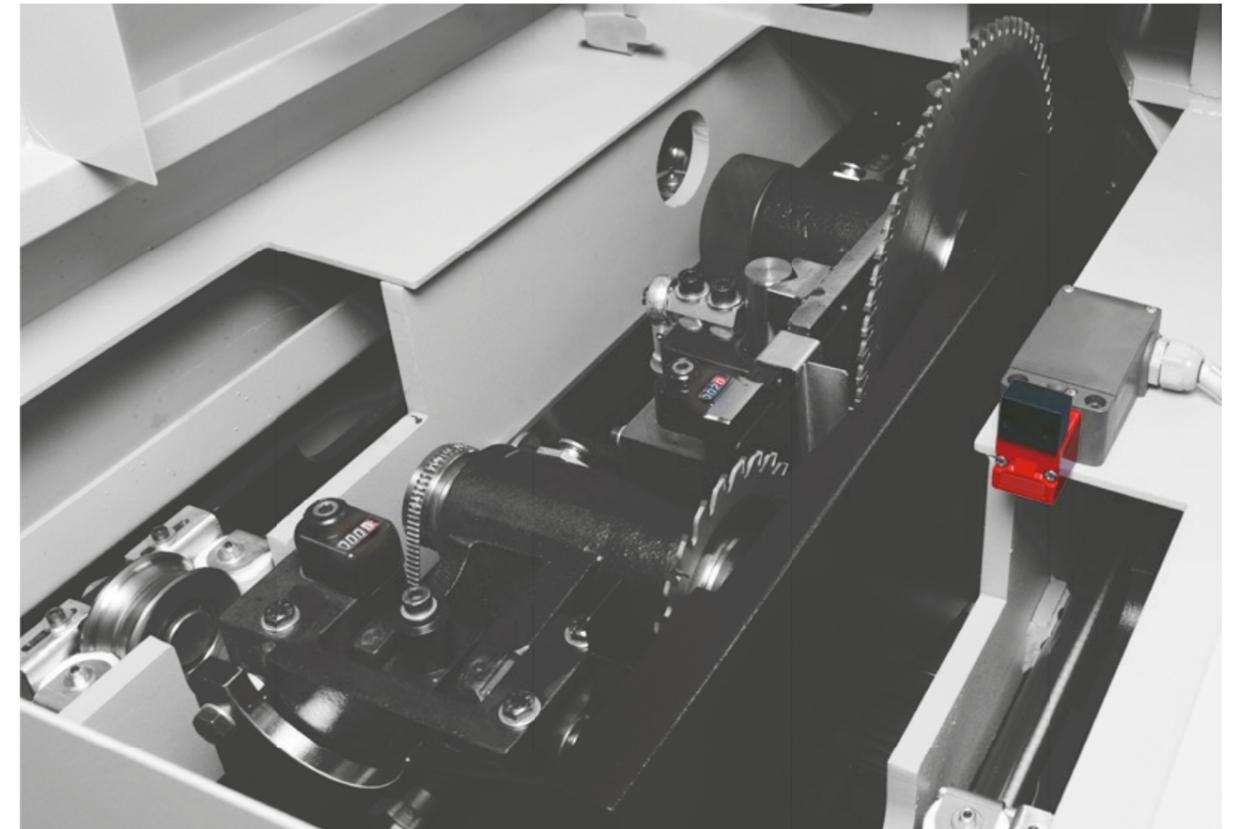
- » Constantly high performance in industrial continuous operation
- » Customer specific optimized production solutions
- » Solid design with premium components
- » Wide range of configuration packages with high-tech solutions
- » Complete engineering precision
- » Premium user comfort
- » Quality and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



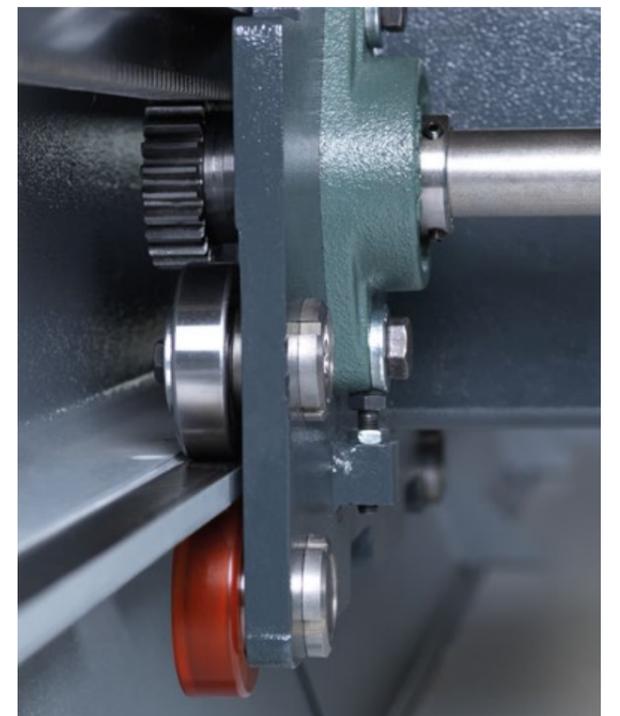
Innovative front lifting table system

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 optimization software. As an option, it can also be equipped with a label printer.



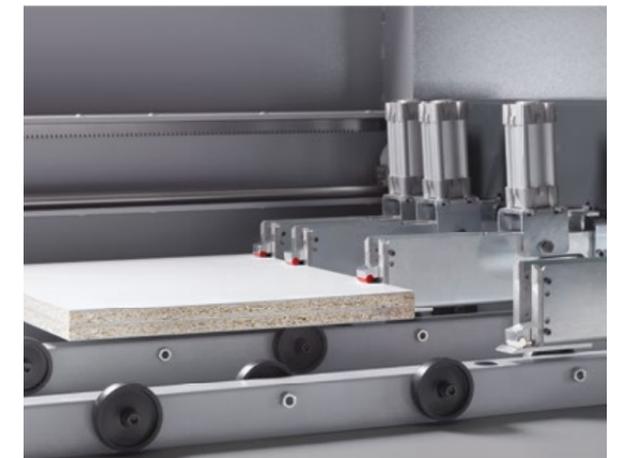
Automatic front lifting tables

The move towards automation with automatic front lifting tables. Stacks of panels with up to 240 millimeters 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.



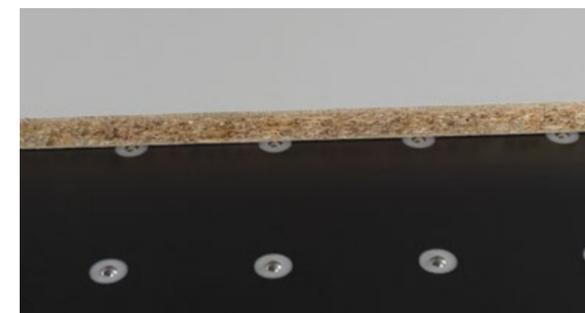
Additional operating terminal on the air cushion table

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



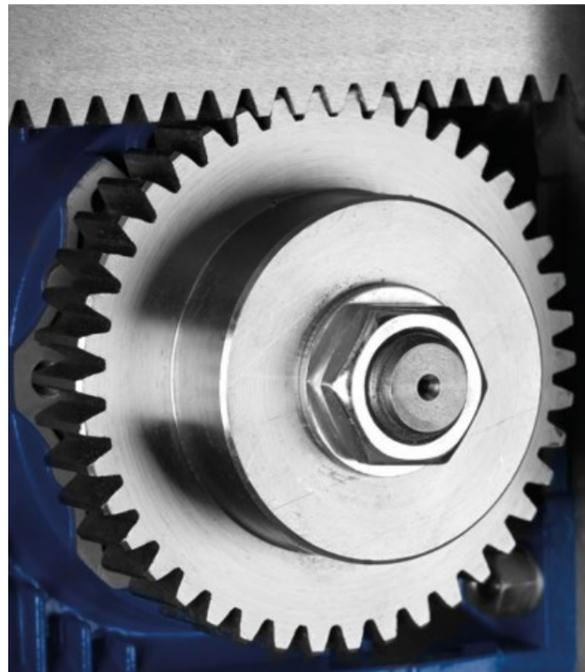
Material pusher towards the cutting axis

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 1 31/32 - 47 1/4").



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 125 63/64", (material movement length 125 63/64")	S
-	Cutting length 169 19/64" (material movement length 125 63/64")	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 12 19/32", 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 5 29/32"	S

Mitre and support tables

		kappa automatic classic
-	Mitre table left with air cushion, 90 35/64 x 23 5/8"	S
-	2.000 mm fence plate on the left hand angle table	S
31	2 pcs. support tables 90 35/64 x 23 5/8"	S
32	Additional support table with air cushion, 59 1/16 x 23 5/8"	O
33	Additional support table with air cushion, 90 35/64 x 23 5/8"	O
-	Moving device for the side tables	S

Material pusher and package clamps

		kappa automatic classic
-	Material pusher travel distance in mm	3200
-	Number of roller tracks as a support behind the machine table	6–7
-	Number of single-finger packet clamps, opening height 3 5/32"	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 1 31/32 - 47 1/4"	S
18	Rear material pusher extension to 165 23/64" instead of 125 63/64"	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" color 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

Liftingtable	kappa automatic classic
95 2 pieces front lifting table	○
Packages	kappa automatic classic
100 Performance Package (9.0 kW S6, cutting height 3 5/32", 30% more efficiency due to reduced cycle length)	○
Important accessories	kappa automatic classic
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
General	kappa automatic classic
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

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 Elkorn® electric heating platens
with warm water heating
with thermal oil heating
connection to an existing heating system

CNC machining centers

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

Nesting-CNC Machining centers

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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