

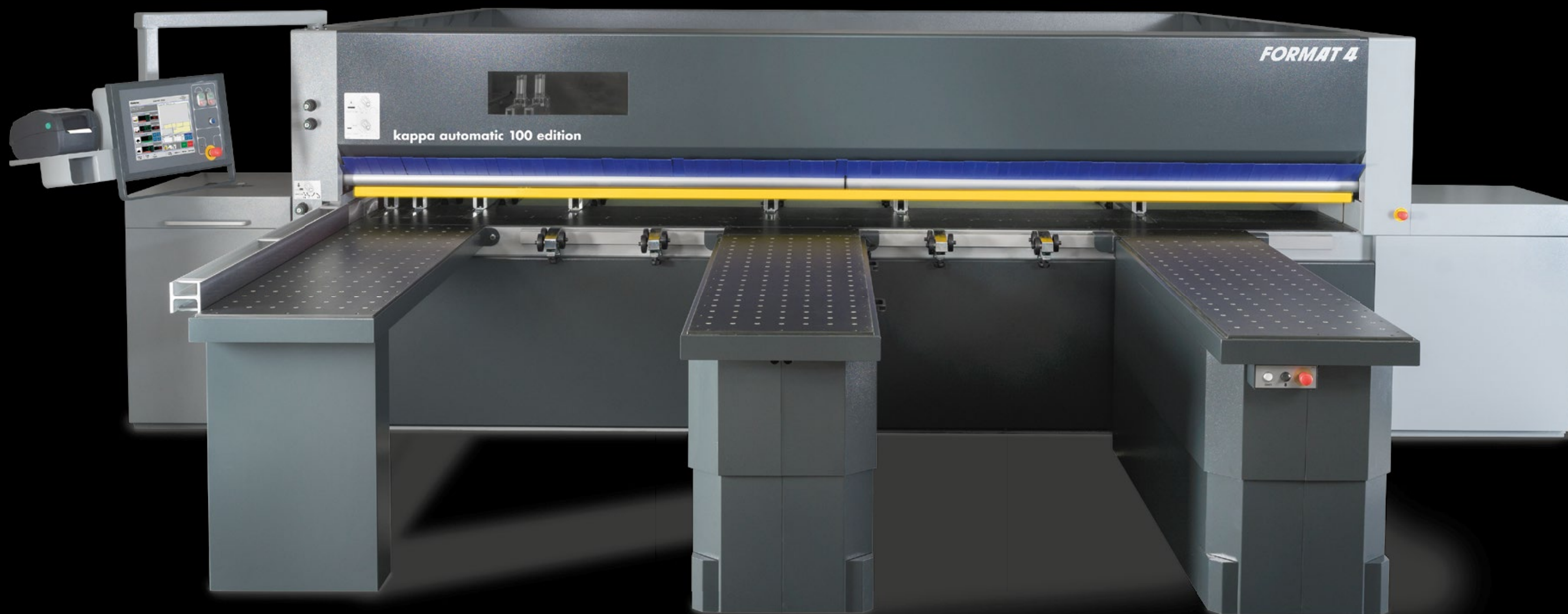
FORMAT 4®

kappa automatic edition

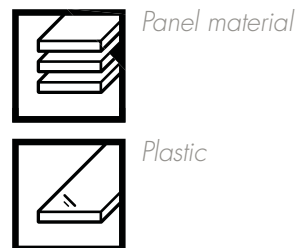
WITH A LARGE CUTTING HEIGHT
FOR MAXIMUM PRODUCTIVITY
WHEN CUTTING STACKS



FORMAT 4®



The compact pressure beam saw for efficient cutting



As one of the heaviest saws in its class, the kappa automatic edition, with its steel pressure beam and material pusher, is built to last and delivers high-quality mechanical engineering. High-end cuts, the highest precision and maximum repeatability are the results of this philosophy. The cutting direction was turned towards the fence with the newly developed kappa automatic saw carriage. The combination of a newly developed operating panel with touch screen control, a cutting direction against the fence and a saw blade projection of $3\frac{11}{32}$ - $3\frac{47}{64}$ " puts this machine among the top of its class. The main saw with a 13.5 kW motor and a $13\frac{25}{32}$ " saw blade diameter is supported by a separate scoring unit with 1.1 kW, $5\frac{29}{32}$ " scoring blade diameter and the possibility of adjustment during operation.

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Variations

Models & Your Advantages



kappa automatic 85 edition

- » Cutting length $125\frac{63}{64}$ / $149\frac{39}{64}$ / $169\frac{19}{64}$
- » Saw blade diameter $12\frac{19}{32}$ "
- » Saw blade projection: $3\frac{11}{32}$ "
- » Variable feed speed: 1–60 m/min
- » Control: 15" TFT touchscreen
- » Motor power 12 HP (9 kW)



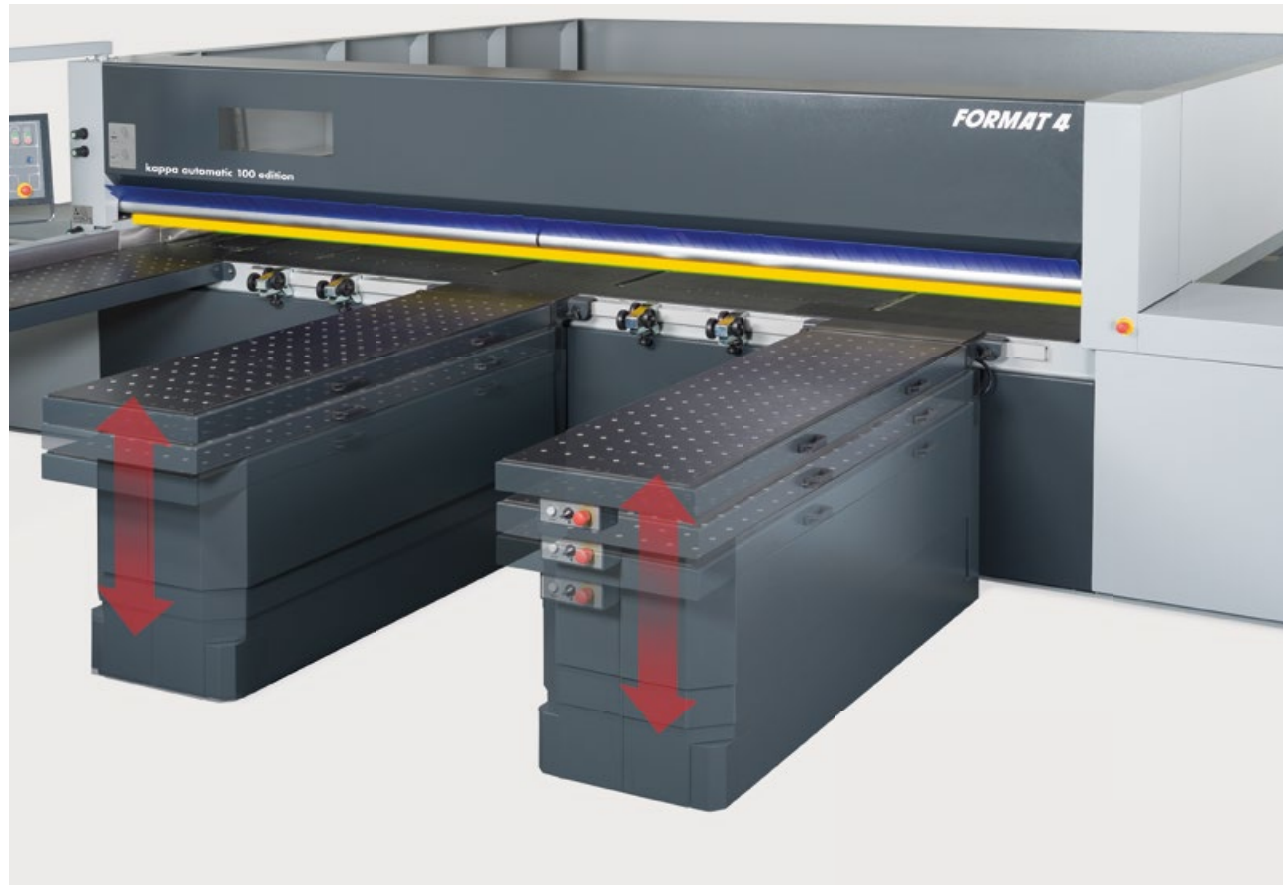
kappa automatic 100 edition

- » Cutting length $125\frac{63}{64}$ / $149\frac{39}{64}$ / $169\frac{19}{64}$
- » Saw blade diameter: $13\frac{25}{32}$ "
- » Saw blade projection: $3\frac{47}{64}$ "
- » Variable feed speed: 1–60 m/min
- » Control: 15" TFT touchscreen
- » Motor power 18 HP (13.5 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

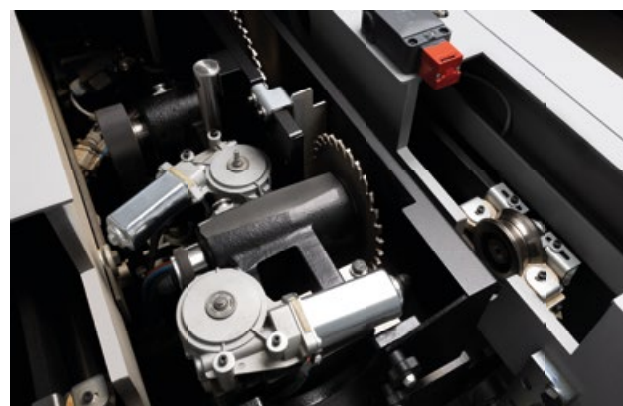


Innovative front lifting table system

For an additional approach towards automation, the kappa automatic edition 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.

Motorised scoring blade settings

The optionally available motorised scoring blade setting operates in hundredths of a millimeter via servomotors and guarantees tear-free results. The setting can be done conveniently via the control terminal.

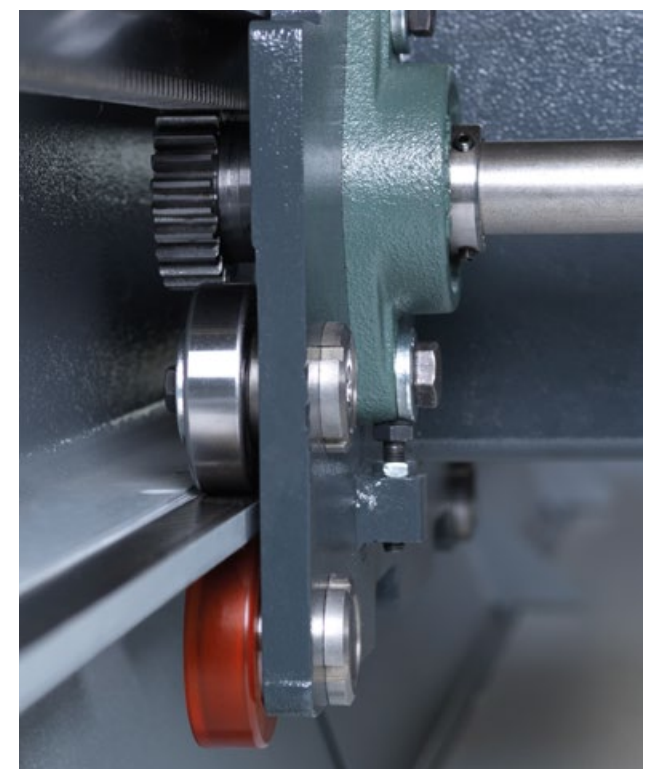


Saw carriage with main and scoring unit

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.

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

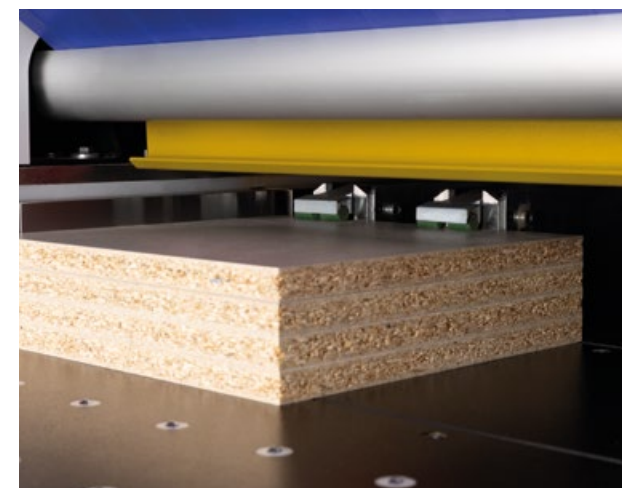
The move towards automation with automatic front lifting tables. Stacks of panels with up to 240 millimeters can be temporarily stored here and processed one plan at a time. In addition, it is possible to load a pre-commissioned panel stack and complete separate cutting plans with minimal set-up time.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

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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

Pneumatically controlled, solid steel clamps ensure secure and damage-free clamping of panel stacks ($3\frac{5}{32}$ - $3\frac{47}{64}$ " opening height) and individual small panel materials.



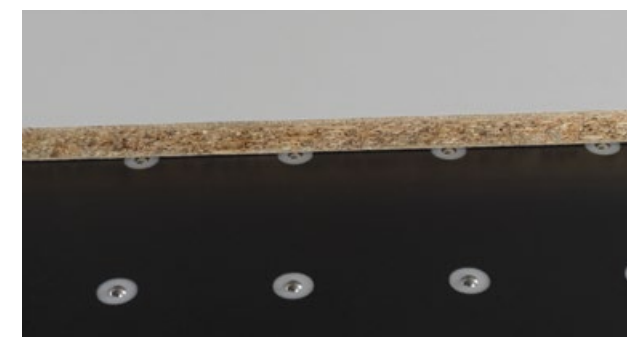
Additional operating terminal on the air cushion table

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



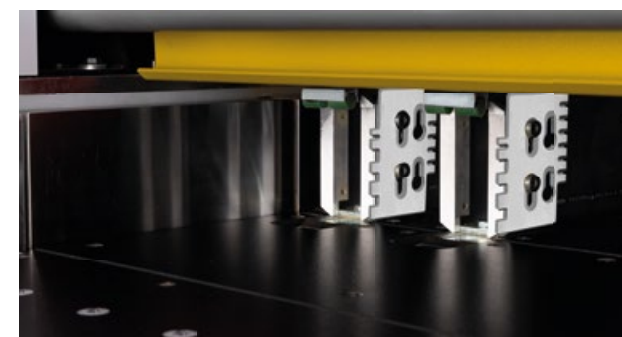
Material pusher towards the cutting axis

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.



Veneer fences

The optional fences can be used for cuts of panels with a veneer projecting edge. This ensures dimensional accuracy and reliable machining in this field of application as well.



Saw carriage drive
The constant feed of the saw carriage can be continuously adjusted from 1–60 m/min directly via 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 85 edition	kappa automatic 100 edition
1	3x 400 V motor voltage, 50 Hz motor frequency	S	S
6	3x 400 V motor voltage, 60 Hz motor frequency	O	O
2	3x 230 V motor voltage, 60 Hz motor frequency	O	O
8	Motor 12.0 HP (9 kW)	S	-
8	Motor 18.0 HP (13.5 kW)	-	S

Cutting lengths and pressure beams		kappa automatic 85 edition	kappa automatic 100 edition
-	Cutting length 125 63/64", (material movement length 125 63/64")	S	S
-	Cutting length 149 39/64" (material movement length 125 63/64")	O	O
-	Cutting length 169 19/64" (material movement length 125 63/64")	O	O
-	Pneumatically controlled pressure beam;	S	S
-	Contact pressure pneumatic adjustable up to max. 3bar	S	S

Sawcarriage		kappa automatic 85 edition	kappa automatic 100 edition
-	Cutting direction towards the fence	S	S
-	Variable feed speed adjustment 1–60 m/min	S	S
-	Return speed 60 m/min	S	S
-	Main saw blade Ø 12 19/32", saw blade projection 3 11/32"	S	-
-	Main saw blade Ø 13 25/32", saw blade projection 3 47/64"	-	S
-	Cutting height adjustment in 2 steps, manual (1 37/64 / 3 11/32")	S	-
22	Electric, variable cutting height adjustment (with groove function)	O	S
-	Scoring saw blade Ø 5 29/32"	S	S
25	Controlled scoring unit positioning	O	O

Mitre and support tables		kappa automatic 85 edition	kappa automatic 100 edition
-	Mitre table left with air cushion, 90 35/64 x 23 5/8"	S	S
-	2.000 mm fence plate on the left hand angle table;	S	S
31	2 pcs. support tables 90 35/64 x 23 5/8"	S	S
33	Additional support table with air cushion, 90 35/64 x 23 5/8"	O	O
-	Moving device for the side tables	S	S
32	Steel rollers on the front edge of air cushion tables	O	O

Material pusher and package clamps	kappa automatic 85 edition	kappa automatic 100 edition
- Material pusher travel distance in mm	3.200	3.200
- Number of roller tracks as a support behind the machine table	6–7	6–7
- Number of single-finger packet clamps, opening height 3 ⁵ / ₃₂ "	6–9	-
- Number of wide finger packet clamps, opening height 3 ⁴ / _”	-	2
- Number of single-finger packet clamps, opening height 3 ⁴⁷ / ₆₄ "	-	5–7
- Packet clamping pressure pneumatic adjustable up to max. 3bar	S	S
- Material pusher (speed forwards/back) 25/40 m/min	S	S
- Material pusher (speed forwards/back) 25/60 m/min	-	S
39 Lateral pressure device 1 ³¹ / ₃₂ – 47 ¹ / ₄ "	S	S
18 Extension of material pusher travel distance to 149 ³⁹ / ₆₄ " instead of 125 ⁶³ / ₆₄ "	O	O
18 Extension of material pusher travel distance to 169 ¹⁹ / ₆₄ " instead of 125 ⁶³ / ₆₄ "	O	O
Pressure of the contact pressure device pneumatic adjustable up to max. 3bar	S	S
34 Mechanical trimming fences for materials with projecting edges	O	O

Machine control system	kappa automatic 85 edition	kappa automatic 100 edition
101 PC control with Windows 10 operating system	S	S
- Control panel with 15" color touch screen	S	S
80 Connect hardware and software via Internet. The Internet connection must be made available on the customers PC.	S	S
81 Switchboard on the air cushion table	S	S
61 Thermal label printer for interactive label printing	O	O

Liftingtable	kappa automatic 85 edition	kappa automatic 100 edition
95A For panel sizes larger than 110 ¹⁵ / ₆₄ " , cutting length 169 ¹⁹ / ₆₄ " is recommended	W	W
95 2 pcs. front lift table (KAC 3232 #95A)	O	O
96 rear side lifting table for kappa automatic 85 edition (!95)	O	O

Important accessories	kappa automatic 85 edition	kappa automatic 100 edition
03.07.32060 – HW panel dividing saw blade Ø= 320 mm, W= 4.4/3.2 mm, d= 30 mm, Z60 TZ/FZ	S	-
03.07.35072 – HW panel dividing saw blade Ø= 350 mm, W= 4.4/3.2 mm, d= 30mm, Z72 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	S

General	kappa automatic 85 edition	kappa automatic 100 edition
Extraction connection Ø in mm	120/100/100	120/100/100
Weight (Kg)	3.500–3.900	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 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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