



Kappa 310/320/322/330/350

Cutting to length and stripping

komax WIRE



THE WAY TO MAKE IT | PERFECT

Power, performance and a sophisticated sensor system are the three key features of the fully automatic Kappa cutting and stripping machines. Simple, intuitive controls allow these machines to be used efficiently.

Area of application

All machine types in the Kappa product family are compelling in the extremely broad range of processing they cover. Thanks to the simple, flexible controls, even difficult to process materials can be set up quickly and easily. The changeover to new types of cables can be done without tools so it is ultra-fast.

Sensors

The conductor diameter and cross section are automatically detected by a sensor, so new cable material can be set up and parameterized at the press of a button. Setup used to be extremely time-consuming.

This unique measuring approach reduces this procedure to an absolute minimum. Thanks to the optical cable detector, cut losses are also a thing of the past. The same sensor continuously monitors processing during production. The end of the cable or outfeed errors are detected at the earliest possible point in time.

User friendly and flexible

TopTouch is an intuitive touch screen user software. With the integrated user prompts, Kappas are extremely easy to operate.

Periphery and interfaces

The integration of wire feeding systems, markers, deposition units, and other peripheral devices is standardized and easy. Up to six peripheral devices can be controlled to the main system depending on the machine model.

All units feature a USB port for:

- Product- and cable import data as a CSV file
- Data backup
- Software upgrade

TopWin Kappa

TopWin Kappa expands the capabilities and functions of the fully automatic Kappa cutting and stripping machines. The PC-based control software allows inkjet marking, sequence production, and parts list processing. Loading new products is done directly from the production list and a daily production is loaded from the local order list – all while production is running.

Kappa 310

The Kappa 310 is an ultra-compact and reasonably priced high-speed machine. The machine can be networked via TopWin and is designed for the reliable controlled processing of the finest wire sizes from 0.02mm² to 6mm². All process parameters can be saved, along with applied pressure values. Simple wire markings can be performed with the basic I/O interface kit for the ims 295 inkjet.

Kappa 320

This machine features a number of options and a powerful blade head. The Kappa 320 can process wire cross sections ranging from 0.05mm² to 10mm². From this machine type, the inkjet marker can be controlled via the basic I/O interface or using the convenient TopWin software.



▲ Laser sensors For cable detection

Networking

As an option, the TopWin Kappa can be integrated in a network through the WPCS interface, allowing simple connection to an existing customer network, for example. Using the production control software (KomaxCAO), central data management, production control and production monitoring are possible.



Kappa 310



▲ Kappa 320

Kappa 322

A flexible cut and strip machine for processing multiple inner conductors, flat cable and single strands sized 0.05mm² to 16mm². The key features of the Kappa 322 are:

- Strong motorized pull-off with selectable roller or belt drive deliver optimum power transmission even for difficult insulation materials,
- A blade unit with quick-action lock for fast, convenient setup and
- A sophisticated separation approach for processing inner conductor cables up to 3×2.5mm².



▲ Kappa 322

Kappa 330

This model is designed for processing cables with a cross section of up to 35mm², multi-core conductors with an outside diameter of up to 16mm or flat cables with a width of up to 40mm. The machine uses either a belt drive or various types of drive rollers depending on the customer's requirements. This makes this type of machine the most versatile member of the Kappa family.



▲ Kappa 330



▲ Kappa 350 With integrated production table

Kappa 350

This powerhouse with its double-blade design is built for processing round conductors with a cross section of up to 120mm² and a maximum outside diameter of 35mm. The machine uses either a belt drive or various types of drive rollers depending on the customer's requirements. A switchable pressure unit adapts the pressure of wire feeding unit to the process step. A sophisticated sensor technology eliminates initial cut losses, which is particularly important for large cross-sections.

Your benefits

- Broader processing range with a diversity of options and solutions
- Innovative sensors to aid in setup and to monitor processing
- Intuitive, flexible and simple touch-screen operation
- Simple integration of upstream and downstream equipment
- TopWin for connecting inkjet, part list production and network solutions

Technical data

	Kappa 310	Kappa 320	Kappa 322	Kappa 330	Kappa 350
Cable cross section, stranded wires*	0.02–6mm ² AWG34–AWG10	0.05–10mm ² AWG30–AWG7	0.05–16mm ² AWG30–AWG5	0.22–35mm ² AWG24–AWG2	2.5–120mm ² AWG14–AWG5/0
Maximum outside diameter	10mm (0.4in.)	10mm (0.4in.)	12mm (0.47in.)	16mm (0.63in.)	35mm (1.38in.)
Length accuracy	Repeat accuracy ±(0.2%+1mm (0.04in.))	Repeat accuracy ±(0.2%+1mm (0.04in.))	Repeat accuracy ±(0.2%+1mm (0.04in.))	Repeat accuracy ±(0.2%+1mm (0.04in.))	Repeat accuracy ±(0.2%+1mm (0.04in.))
Flat cable processing	Optional 8mm (0.32in.)	Optional 12mm (0.47in.)	Optional 12mm (0.47in.)	Optional 40mm (1.6in.)	–
Cable length range	1mm–800000mm (0.039in.–874.9yd.)				
Maximum wire transport speed	4.0m/s (157.5in./s)	4.0m/s (157.5in./s)	4.0m/s (157.5in./s)	4.0m/s (157.5in./s)	4.8m/s (189in./s)
Maximum stripping length	Full strip	Side 1: 100mm (3.94in.) Side 2: 40mm (1.57in.)	Side 1: 100mm (3.94in.) Side 2: 90mm (3.51in.)	Side 1: 180mm (7.09in.) Side 2: 50mm (1.97in.)	Side 1: 290mm (11.42in.) Side 2: 150mm (5.9in.)
	Semi strip	Side 1: 999.9mm (39.37in.) Side 2: 999.9mm (39.37in.)			
Intermediate stripping	Multiple strip-off				
Automatic conductor diameter sensor (conductor detector) <small>(Automatic detection of cut depth)</small>	Optional	Optional	Optional	Optional	Standard
Cable detector <small>(Cable jam, detection, anti-slip monitoring, zero cut optimization, outside diameter measuring)</small>	Optional	Optional	–	Optional	Standard
Wire-end detection	–	–	Optional (mechanical Switch)	–	–
Wire length measuring system	–	Optional	Optional	Optional	Standard
Straightening unit	Optional (internal)	Optional (external)	Optional (external)	Optional (external)	Optional (external)
IOCS interfaces <small>(expandable)</small>	2 (4)	2 (4)	2 (4)	3 (6)	3 (6)
USB/Ethernet	Standard	Standard	Standard	Standard	Standard
Noise level	<70dBA	<70dBA	<70dBA	<70dBA	<70dBA
Drive system	Single roller	Single roller	Double roller drive or belt drive	Double roller drive or belt drive	Belt drive or double roller drive
Production table	Optional	Optional	Optional	Optional	Standard
Electrical connection	110/230VAC ±10% 50/60Hz 300VA	110/230VAC ±10% 50/60Hz 300VA	110/230VAC ±10% 50/60Hz 300VA	110/230VAC ±10% 50/60Hz 520VA	110/230VAC ±10% 50/60Hz 1.2kVA
Pneumatic connection	Optional for blade cleaning	Optional for blade cleaning	5–8bar (73–116psi)	5–8bar (73–116psi)	5–8bar (73–116psi)
Dimensions (W×H×D)	465×385×460mm (18.3×15.2×18.1in.)	510×380×470mm (20×15×18.5in.)	650×380×470mm (25.6×15×18.5in.)	650×380×540mm (25.6×15×21.2in.)	1090×1425×890mm (42.9×56.1×35in.)
Weight	25kg (55lb)	34kg (75lb)	48kg (93lb)	approx. 55kg (157.4lb)	approx. 270kg (723.4lb)

* The Kappa generations can process many conductors outside the indicated cross section range. Certain extremely hard, tough wires may not be able to be processed even if they are within the indicated cross section range. In case of doubt, we are happy to produce samples of your wires.

Application sample

	Kappa 310 Kappa 320	Kappa 322	Kappa 330	Kappa 350
Cutting				
Full strip				
Half strip				
Multiple strip				
Intermediate strip / Intermediate slitting				
Multi conductor cable				
Inner conductor processing				
Double sheath / Coaxial and triaxial cables				
Flat cable / Notching				
Cut pulled strands / Precision cut				
Hot stamp marking				
Ink-Jet marking				
Coiling / Binding				
Sequence / Parts lists				
Wire infeed (roller/belt)				
Wire deposit system				
Prefeeder / Dereeler				
Batch separation				
Sensors: Conductor Cabledetector				
Wire length correction				
Networking				

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