Kappa 322/330/350

Cutting to length and stripping

komax

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 touchscreen user software. With the integrated user prompts, Kappas are extremely easy to operate.

▲ **Laser sensors** For cable detection

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 – enhanced capabilities
The TopWin Kappa operating software expands the capabilities and functionality of Kappa machines via a PC user interface. Inkjet printing in multiple positions, mirror printing and double-sided labels can be controlled, including everything from pre-printed wires to logo markings and more.

Perfectly networked
TopWin Kappa can be easily integrated into networks via the WPCS interface, including, for example, existing user networks. The production-control room software also enables centralized data management, production control and production monitoring.

Kappa 322
A flexible cut and strip machine for processing multiple inner conductors, flat cable and single strands sized 0.05 mm^2 to 16 mm^2. 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 × 2.5 mm^2.

▲ **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. In the "Dual Head" version with double-blade principle, the Kappa 330 is the all-rounder in the product family.

▲ **Kappa 330**

▲ **Kappa 330** Double-blade principle

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.

▲ **Kappa 350** With integrated production table

Your benefits

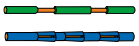
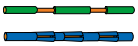
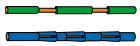
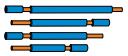
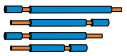
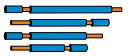
- Broader processing range with a diversity of options and solutions
- Innovative sensors to aid in setup and to monitor processing
- Intuitive, flexible and simple touch-screen operation
- Simple integration of upstream and downstream equipment
- TopWin for connecting inkjet, part list production and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

Technical data

		Kappa 322	Kappa 330	Kappa 350
Cable cross section, stranded wires*		0.05–16 mm² AWG30–AWG5	0.22–35 mm² AWG24–AWG2	2.5–120 mm² AWG14–AWG5/0
Maximum outside diameter		12 mm (0.47 in.)	16 mm (0.63 in.)	35 mm (1.38 in.)
Length accuracy		Repeat accuracy ±(0.2%+1 mm (0.04 in.))	Repeat accuracy ±(0.2%+1 mm (0.04 in.))	Repeat accuracy ±(0.2%+1 mm (0.04 in.))
Flat cable processing		Optional 12 mm (0.47 in.)	Optional 40 mm (1.6 in.)	–
Cable length range		1 mm–800000 mm (0.039 in.–874.9 yd.)		
Maximum wire transport speed		4.0 m/s (157.5 in./s)	4.0 m/s (157.5 in./s)	4.8 m/s (189 in./s)
Maximum stripping length	Full stripping	Side 1: 100 mm (3.94 in.) Side 2: 90 mm (3.51 in.)	Side 1: 180 mm (7.09 in.) Side 2: 50 mm (1.97 in.)	Side 1: 290 mm (11.42 in.) Side 2: 150 mm (5.9 in.)
	Half stripping	Side 1: 999.9 mm (39.37 in.) | Side 2: 999.9 mm (39.37 in.)		
	Multi-step stripping	Side 1: 999.9 mm (39.37 in.) | Side 2: 999.9 mm (39.37 in.)		
Center stripping	Quantity and maximal length	Programmable (no restrictions on quantity and length)		
Automatic conductor diameter sensor (Conductor detector) (Automatic detection of cut depth)		Optional	Optional	Standard
Cable detector (Cable jam, -detection, anti-slip monitoring, zero cut optimization, outside diameter measuring)		–	Optional	Standard
Wire-end detection		Optional (mechanical Switch)	–	–
Wire length measuring system		Optional	Optional	Standard
Straightening unit		Optional (external)	Optional (external)	Optional (external)
IOCS interfaces (expandable)		2 (4)	3 (6)	3 (6)
USB/Ethernet		Standard	Standard	Standard
Noise level		<70 dBA	<70 dBA	<70 dBA
Drive system		Double roller drive or belt drive	Double roller drive or belt drive	Belt drive or double roller drive
Production table		Optional	Optional	Standard
Electrical connection		110/230 VAC ±10% 50/60 Hz 300 VA	110/230 VAC ±10% 50/60 Hz 520 VA	110/230 VAC ±10% 50/60 Hz 1.2 kVA
Pneumatic connection		5–8 bar (73–116 psi)	5–8 bar (73–116 psi)	5–8 bar (73–116 psi)
Dimensions (W×H×D)		650×380×470 mm (25.6×15×18.5 in.)	650x380x690 mm (25.6x15x27.2 in.)	1090×1425×890 mm (42.9×56.1×35 in.)
Weight		48 kg (105.8 lb)	Single Head approx. 55 kg (121.2 lb) Dual Head approx. 60 kg (132.3 lb)	approx. 270 kg (595.2 lb)

* 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 322	Kappa 330	Kappa 350
Cutting to length			
Full stripping			
Half stripping			
Multi-step stripping			
Center stripping / Intermediate slitting			
Multi-conductor cable processing			
Core processing			
Double sheath cable processing			
Flat cable processing			
Cutting pulled strands / Precision cut			
Hot stamp marking			
Inkjet marking			
Coiling / Binding			
Sequence processing			
Wire feed (Roller/Belt)			
Wire deposit system			
Pulling / Dereeling prefeeder			
Batch separation			
Sensor technology: Conductor Cable detector			
Wire length correction			
Networking (Manufacturing execution system, WPCS, MIKO)			

Made in Switzerland
Subject to change /gu
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CS. Kappa 322–350

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