



Kappa 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 touchscreen 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 – 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.

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.



▲ Laser sensors For cable detection

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

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

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* | 0.05–16mm ² AWG30–AWG5 | 0.22–35mm ² AWG24–AWG2 | 2.5–120mm ² AWG14–AWG5/0 |
| Maximum outside diameter | 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.)) |
| Flat cable processing | 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) | 4.8m/s (189in./s) |
| Maximum stripping length | Full stripping | Side 1: 100mm (3.94in.) Side 2: 90mm (3.51in.) | Side 1: 290mm (11.42in.) Side 2: 150mm (5.9in.) |
| | Half stripping | Side 1: 999.9mm (39.37in.) Side 2: 999.9mm (39.37in.) | |
| | Multi-step stripping | Side 1: 999.9mm (39.37in.) Side 2: 999.9mm (39.37in.) | |
| Center stripping | Quantity and maximal length | | |
| Automatic conductor diameter sensor (conductor detector) <small>(Automatic detection of cut depth)</small> | Optional | Optional | Standard |
| Cable detector <small>(Cable jam, -detection, anti-slip monitoring, zero cut optimization, outside diameter measuring)</small> | – | 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 <small>(expandable)</small> | 2 (4) | 3 (6) | 3 (6) |
| USB/Ethernet | Standard | Standard | Standard |
| Noise level | <70dBA | <70dBA | <70dBA |
| 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 | 110/230VAC ±10% 50/60Hz 300VA | 110/230VAC ±10% 50/60Hz 520VA | 110/230VAC ±10% 50/60Hz 1.2kVA |
| Pneumatic connection | 5–8bar (73–116psi) | 5–8bar (73–116psi) | 5–8bar (73–116psi) |
| Dimensions (W×H×D) | 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 | 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 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 | | | |
| Automatic conductor detector (ACD) | | | |
| Wire length correction | | | |
| Networking (Manufacturing execution system, WPCS, MIKO) | | | |

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