



KAPPA

310/315/320

cut and strip



komax WIRE

KAPPA

310/315/320

Cutting force, high volume output and advanced sensor technology make the Kappa machines the number one choice for automated cutting and stripping, even for smaller wire cross-sections. The machines can be used very efficiently thanks to their simple, intuitive control elements.

Simple, intuitive operation

- intuitive TopTouch software with operating instructions
- maximum transparency thanks to simple adjustment settings

Quick setup and changeover

- tool-free changeover
- setup and parameterization at the push of a button
- innovative sensors to aid in setup and cable monitoring

Wide range of applications

- broader processing range with a diverse range of options and solutions
- reliable controlled processing of the smallest cross-section sizes, from 0.02 to 10 mm² (AWG 8)
- simple integration and networking

HIGH-PERFORMANCE, EVEN FOR SMALL CROSS-SECTIONS



Wide range of applications

The Kappa product family stands out thanks to its extremely broad processing range. Its intuitive and simple operation and controls allow you to easily set up even difficult-to-process materials, with extremely fast tool-free changeover to new types of wires.

Fast, simple operation

The intuitive TopTouch operating software guides the user through the process logically. During production, operators have maximum transparency thanks to simple adjustment settings for important parameters. This makes the Kappa machines especially intuitive and safe to operate.

Automatic diameter detection

The sensor-enabled wire diameter and cross-section detection makes it possible to set up and parameterize new wire materials at the push of a button. The unique, tool-free measuring principle reduces time-consuming setup to a minimum, while cut losses are also minimized thanks to the optical wire monitoring. The laser sensor continuously checks and immediately detects wire ends and stripping errors during production.

Versatile integration and interfaces

Peripheral devices such as wire feeding systems, markers or deposition units can be integrated easily as standard. Up to four peripheral devices can be controlled depending on the model.

The machines also have a USB port for:

- data backup
- software upgrades
- product and wire import as CSV files

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.

Intelligent economical production

Products with the same wire are produced without cuts and therefore more economically with the help of job lists. Sequence production and part list processing are also possible. Products may be loaded directly into the job list, even while production is running. Changeover times are minimized thanks to automatic sorting of the different products.

Different types of production as required

Depending on the production process, part lists or sequences can be produced as multi-lead sets or as cable harnesses. In addition, TopWin makes it possible to verify materials, detect material changes or print commercial documents.

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.



01

01
Conductor detector for automatic diameter detection.

02
TopWin Kappa: expanded functions for economic production.



02

KAPPA 310

FAST AND RELIABLE





Kappa 310 – fast up to 0.02 mm²

The Kappa 310 is an ultra-compact high-speed machine for reliable controlled processing of the smallest cross-sections from 0.02 mm² to 6 mm².

- ultra-fast cutting and stripping for high production output
- powerful drive axles for extremely high cable transport speeds
- wire feed parts can be changed without tools
- minimal setup thanks to unique sensors
- memory for process parameters, including programmable wire applied pressure valves
- processing set for short wire lengths starting from 18 mm



01

01
Direct inkjet interface as entry-level solution.

02
Kappa 310 for processing extremely short wire lengths.



02

KAPPA 315

POWERFUL AND ROBUST



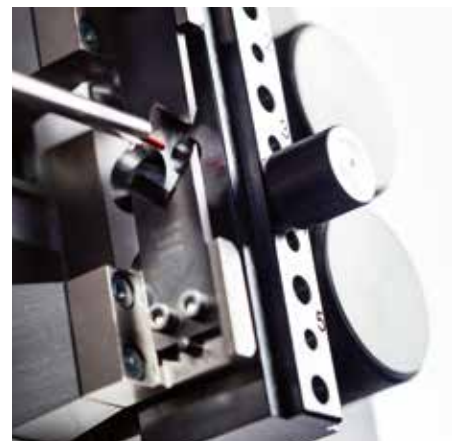


Kappa 315 – powerful up to 10 mm²

The Kappa 315 is fitted with a powerful and robust blade head and has a processing range that comprises cross-sections of 0.05 mm² to 10 mm².

- precise and robust blade axis
- different blade shapes for the highest stripping quality
- wire feed parts can be changed without tools
- minimal setup time thanks to a unique conductor detector
- memory for process parameters, including programmable wire applied pressure valves
- processing set for short wire lengths starting from 30 mm

Blade head with 8-hole wire feeding system.



KAPPA 320

PRECISE AND VERSATILE





Kappa 320 – keeps all options open

The Kappa 320 stands out with its broad spectrum of possibilities for processing wire cross-sections of 0.05 mm² up to 10 mm².

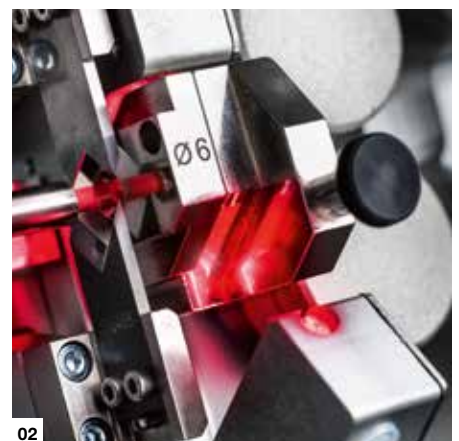
- extremely precise and powerful blade axis design
- comparable wire length measurement with automatic length compensation
- wire feed parts can be changed without tools
- changeover times reduced through unique sensors
- memory for process parameters, applied pressure valves and cable diameter
- processing set for short wire lengths starting from 30 mm



01

01
Length measurement system
for consistent wire lengths
and wire slip compensation.

02
Laser sensor for production
monitoring.







































02

Technical data




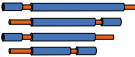
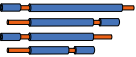
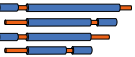





















		Kappa 310	Kappa 315	Kappa 320
Wire cross-section, stranded wires*		0.02 – 6 mm ² AWG 34 – 10	0.05 – 10 mm ² AWG 30 – 8	0.05 – 10 mm ² AWG 30 – 8
Max. outer diameter		10 mm (0.4 in.)	10 mm (0.4 in.)	10 mm (0.4 in.)
Length accuracy		Repeat accuracy ± (0.2 % + 1 mm (0.04 in.))	Repeat accuracy ± (0.2 % + 1 mm (0.04 in.))	Repeat accuracy ± (0.2 % + 1 mm (0.04 in.))
Flat cable processing		Optional 8 mm (0.32 in.)	Optional 12 mm (0.47 in.)	Optional 12 mm (0.47 in.)
Wire length range		1 – 800'000 mm (0.039 in. – 874.9 yd.)		
Short wire lengths		Optional 18 mm	Optional 30 mm	Optional 30 mm
Max. wire transport speed		4.0 m/s (157.5 in./s)	2.0 m/s (78.75 in./s)	4.0 m/s (157.5 in./s)
Max. stripping lengths	Full strip	Side 1: 100 mm (3.94 in.) Side 2: 40 mm (1.57 in.)	Side 1: 100 mm (3.94 in.) Side 2: 40 mm (1.57 in.)	Side 1: 100 mm (3.94 in.) Side 2: 40 mm (1.57 in.)
	Semi strip	Side 1: 999.9 mm (39.37 in.) Side 2: 999.9 mm (39.37 in.)		
	Multi-step strip	Side 1: 999.9 mm (39.37 in.) Side 2: 999.9 mm (39.37 in.)		
Intermediate stripping	Number and length	Optional	Optional	Optional
Automatic conductor detector (automatic detection of cut depth, cable end monitoring)		Optional	Optional	Optional
Cable detector (queue, end and slip monitoring, zero-cut optimization, outside diameter measurement)		Optional	–	Optional
Length measurement system		–	–	Optional
Straightening unit		Optional	Optional	Optional
IOCS interface (expandable)		2 (4)	2 (4)	2 (4)
USB/ethernet		Standard	Standard	Standard
Noise level		< 70 dBA	< 70 dBA	< 70 dBA
Drive system (with motorized closing axis)		Single roller	Single roller	Single roller
Production table		Optional	Optional	Optional
Electrical connection		110/230 VAC ±10% 50/60 Hz 300 VA	110/230 VAC ±10% 50/60 Hz 300 VA	110/230 VAC ±10% 50/60 Hz 300 VA
Pneumatic connection		Optional for blade cleaning	Optional for blade cleaning	Optional for blade cleaning
Dimensions (W × H × D)		465 × 385 × 460 mm (18.3 × 15.2 × 18.1 in.)	465 × 385 × 460 mm (18.3 × 15.2 × 18.1 in.)	510 × 380 × 470 mm (20 × 15 × 18.5 in.)
Weight		25 kg (55 lbs)	25.9 kg (57 lbs)	34 kg (75 lbs)

* Kappa machines can process many conductors outside the indicated cross-section range, however certain extremely hard, tough wires may not be able to be processed even if they are within the indicated cross-section range. If in doubt, we are happy to provide you with samples of your wires.

Processing examples

	Kappa 310	Kappa 315	Kappa 320
Cutting to length			
Full stripping			
Half stripping			
Multi-step stripping			
Intermediate stripping			
Multi-conductor wire processing			
Strand processing			
Double sheath			
Flat cable			
Cutting of pulled strands / precision cutting			
Hot-stamp marking			
Inkjet marking			

Options and accessories

Coiling / binding			
Sequence / parts list			
Wire draw-in (roller / belt)			
Wire deposit system			
Prefeeder / dereeler			
Batch size separation			
Sensor technology: Conductor Cable detector			
Wire length correction			
Networking			

Komax Wire – industry leader today and in the future

As the pioneer and market leader in the field of automated wire processing, Komax Wire provides its customers with innovative and sustainable solutions for any situation that calls for precise contact connections. Komax Wire manufactures machinery and equipment for various industries, catering for every conceivable degree of automation and customization. Its range of quality tools, test systems and intelligent networking solutions complete the portfolio, and ensure safe and efficient production. The Swiss company, which has operations all over the world, develops and manufactures its products at various locations. Its extensive distribution and service network supports customers locally in more than 60 countries through standardized service processes, while ensuring the ongoing availability and value of these customers' investments once the equipment has been put into operation. The Swiss company Komax Wire is part of the international Komax Group, which employs approximately 1600 people.



Market segments

Komax Wire offers outstanding competence and solutions for various areas of application and draws on them to generate the desired value-added for the entire process and optimize economic efficiency in line with customer requirements. The main markets of Komax Wire are as follows: automotive, aerospace, industrial and telecom & datacom. With this breadth of experience, customers obtain expert knowledge for process optimization and access to the latest technologies.



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