



KAPPA 350

cut and strip

komax

KAPPA 350

The Kappa 350 is a power pack machine that uses the double-blade principle to process round conductors up to 120 mm² and a maximum outer diameter of 35 mm. It has either a belt drive or various drive rollers available for wire transport. A switchable pressure unit adjusts the contact pressure of the drive unit to suit the processing step. Sophisticated sensor technology ensures that cut losses are eliminated. These are of particular consequence in the upper cross-section range.

Outstanding precision and high quality

- Cut and strip from 2.5 – 120 mm² (AWG 14 – AWG 5/0)
- High performance
- Easy and flexible operation via touchscreen interface
- Innovative sensor technology to aid setup and process monitoring
- Minimal wire loss as a result of sensor monitoring
- Easy connection of upstream and downstream devices
- TopWin connection
- Networking with company network

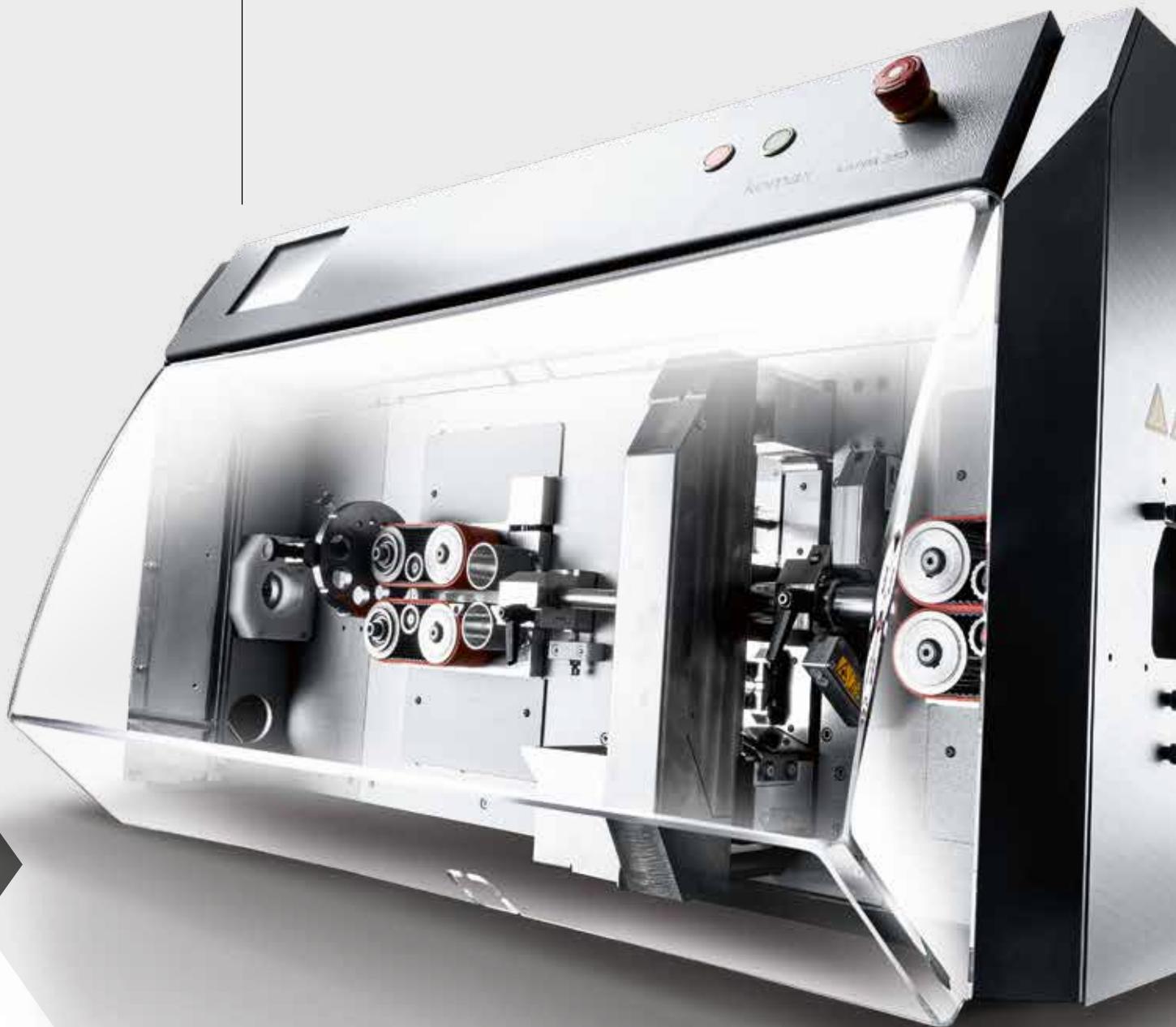
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A close-up photograph of a wire cutting and stripping machine. The image shows a large, polished metal die with a V-shaped groove. A thick, red-insulated wire is being fed into the die. A yellow-handled tool is positioned to cut the wire. The machine's body is made of dark metal with several blue screws. In the foreground, a white metal component is visible, featuring a circular hole and the text "D=12.80" and "15.24mm".

THE AUTOMATIC CUT AND STRIP MACHINE
FOR LARGE WIRE CROSS SECTIONS
THE POWER PACK

KAPPA CUT & STRIP SOLUTIONS

STRONG AND VERSATILE





Function

The powerful belt drive guarantees careful processing across the full cross-section range. The sensors are also combined with a length measurement encoder to provide optimal process monitoring and accuracy. Precuts are automatically minimized.

Sensor technology

For automatic conductor detection, a sensor using an inductive measuring principle automatically determines the conductor diameter. This shortens setup and change-over times considerably and reduces operator errors. An optical measurement principle using lasers and CCD lines determines the outer diameters of the wires and also checks that the wire is present during processing.

Peripherals and interfaces

Integration of wire feeder systems, printers, active deposit units, etc., is standardized and easy. Particular attention has been paid to the integration and control of the inkjet systems. Data backup, software updates and the import of CSV wire and product data are all carried out via a USB stick.

Software

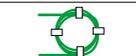
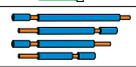
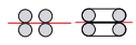
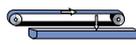
The intuitive "TopTouch" touchscreen operating software is based on the proven TopWin structure used on fully automatic crimping machines. The integrated user guidance makes all Kappas extremely easy to operate. TopWin Kappa enhances the capabilities and functionality of Kappa automatic cutting and stripping machines. The PC-based control software allows inkjet printing, sequence production or part list processing. The products to be produced can either be loaded onto the processing machine directly or via a jobs list. The optional WPCS (Wire Processing Communication Standard) interface enables the networking of Komax machines and their easy integration into existing production processes. The software used on the Kappa 350 also allows the centralized creation and management of parts, articles and orders in order to optimize production. Existing order and article lists can be converted into WPCS format using TopConvert. This data can then be processed directly by the cutting and stripping machine.



01
The integration of wire feed systems, printers and deposit trays is possible without any problems.

02
Option wire backstop

Processing examples and functions

Cut to length		Cutting of pulled strands / zero cut		Prefeeder pulling / dereeling	
Full stripping		Hot stamp marking		Batch size separation	
Half stripping		Inkjet marking		Sensor technology: Conductor, Cable detector	
Multi-step stripping		Coiling / binding		Wire length correction	
Intermediate stripping / slitting		Sequence processing		Networking (control center, WPCS, MIKO)	
Processing multi-core cables		Wire draw-in (roller / belt)			
Processing double sheath cables		Wire deposit system			



Technical data

Wire cross-section, stranded wires*		2.5 – 120 mm ² AWG14 – 5/0
Max. outside diameter		35 mm (1.38 in.)
Length accuracy repeatability		Repeat accuracy ±(0.2%+1 mm (0.04 in.))
Flat wire processing		–
Wire length range		1 mm – 800000mm (0.039 in. – 874.9 yd.)
Max. wire transport speed		4.8 m/s (189 in./s)
Max. strip length	full stripping	Side 1: 290 mm (11.42 in.) Side 2: 150 mm (5.9 in.)
	partial strip	Side 1: 999.9 mm (39.37 in.) Side 2: 999.9 mm (39.37 in.)
	semi strip	Side 1: 999.9 mm (39.37 in.) Side 2: 999.9 mm (39.37 in.)
Programmable intermediate strip	number and length	programmable (No limitations in terms of number and length)
Automatic conductor detector (automatic detection of cut depth)		standard
Cable detector (queue, end and slip monitoring, zero-cut optimization, outer diameter measurement)		standard
Number of blade positions		2 blade positions (+1 slitting blade)
Wire end detection		–
Length measuring system		standard
Straightener unit		optional (external)
IOCS interface (expandable)		3 (6)
USB/standard ethernet		standard
Noise level		<70 dBA
Drive system		Belt or roller drive
Production table		standard
Electrical connection		110/230 VAC ±10% 50/60 Hz 1.2 kVA
Pneumatic connection		5–8 bar (73–116 psi)
Dimensions (W×H×D)		1090 × 1425 × 890 mm (42.9 × 56.1 × 35 in.)
Weight		approx. 270 kg (595.2 lb)

* Kappa machines can process many conductors outside the indicated cross-section range, but 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.

Komax – leading the field now and in the future

As a pioneer and market leader in the field of automated wire processing, Komax provides its customers with innovative and sustainable solutions for any situation that calls for precise contact connections. Komax manufactures series and customer-specific machinery for various industries, catering to every 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. Komax is a globally active Swiss company with development and production facilities on several continents. Komax uses its extensive distribution and service network, which includes local companies and their employees, to support customers across the world on site, thus ensuring the availability and value of their investments after equipment commissioning through standardized service processes.



Market segments

Komax 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 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.

40
YEARS
CUTTING
EDGE

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