KAPPA 340

cut and strip

komax

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KAPPA 340

The versatile Kappa 340 is ideally equipped for all the challenges of modern wire processing, both now and in the future: It has a standard powerful dual cutting head combined with a rotary incision unit. Together with its high-torque belt drive, it handles complex processing sequences quickly and efficiently.
A two-stage length measuring system ensures precise wire processing even in the most difficult processing situations. Komax Kappa is synonymous with speed, efficiency and reliability. With intuitive operation, sophisticated technology and innovative refinements, the Kappa 340 is a safe investment.

VERSATILE AND POWERFUL

FOR COMPLEX WIRES WITH CROSS SECTION OF 0.22 – 70 MM²

Optimally equipped for wires both now and in the future

– Cutting to length and stripping from 0.22 – 70 mm² (AWG24 – 2).
– For uneven cable surfaces, battery, shielded multicore, HV, sensor wires and hard, tough, thick and thin insulation.
– Multi-pole conductors up to 16 mm outer diameter or ribbon cables up to 16 mm wide.
– Complex processing sequences can be produced easily and efficiently.

High reliability and simple operation

– Proven technology of the Kappa series prevents all risk.
– Refined for this special requirement.
– Intuitive software for even easier operation and precise results.

Multiple processing options save time and increase capacity

– Double blade holder for simultaneous processing with different blades.
– Optional powerful rotary cutting unit.
– Fully programmable slitting unit.
– Belt drive with high torque and long support surface for optimum grip.

Enormous versatility

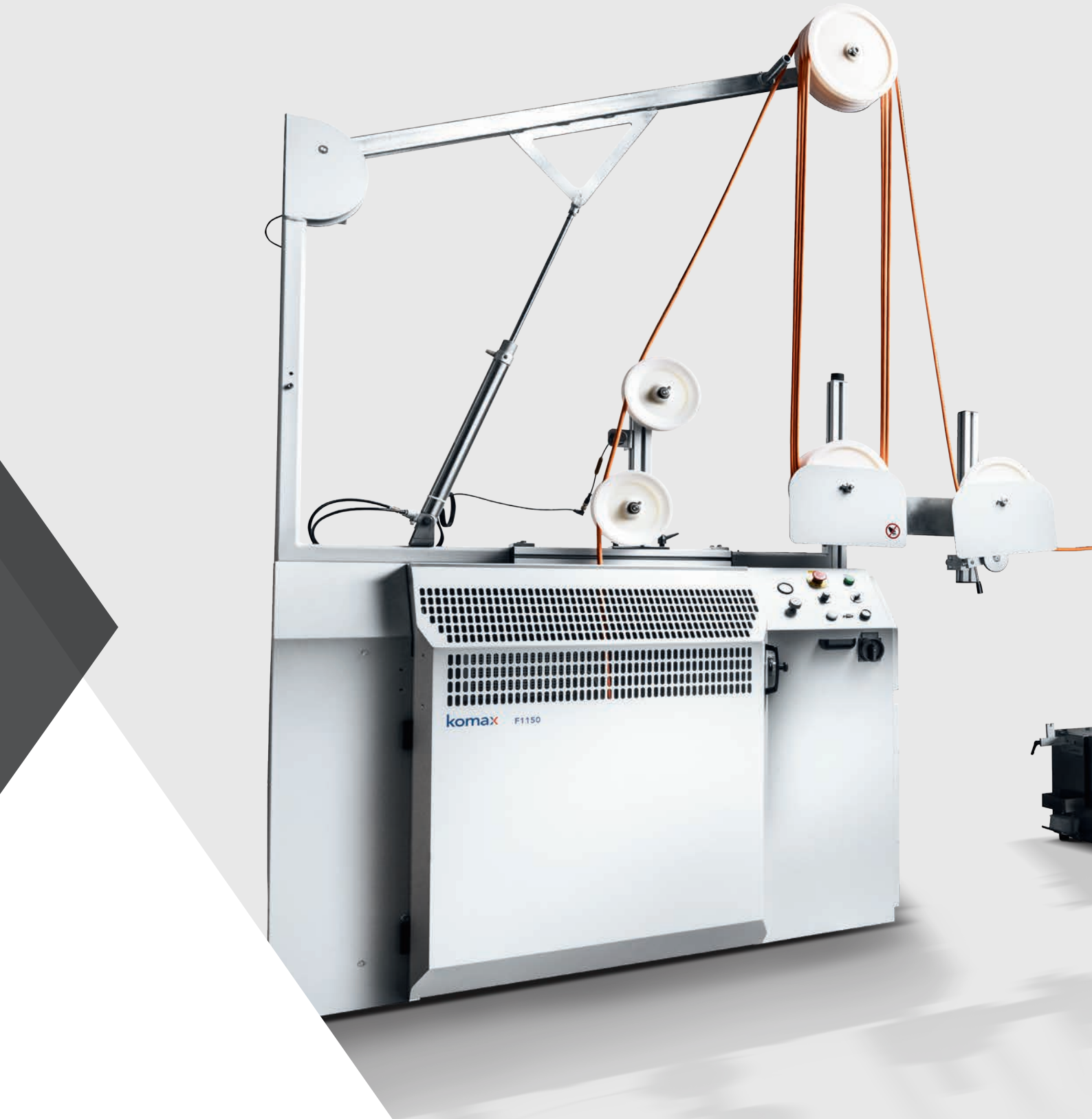
The Kappa 340 is designed for cutting to length and stripping wires with a cross section of 0.22 – 70 mm² (AWG 24–2). The cable range includes shielded multi-pole conductors, HV, battery and sensor wires up to 16 mm outer diameter and ribbon cables up to 16 mm wide. Two blade positions (dual head) are available for different V-blades, V-radius blades and/or optional form blades with support plates – ideal for the widest possible range of applications. The optional rotary incision unit (RIU) is a strong performer especially in complex wire sheathing and shorter changeover times.

Precise and careful processing

A strong belt drive with a lot of torque and a long belt support surface enables careful transport of the wire with a high power transmission. Any slip is measured and compensated by the length measuring system. It is recommended in particular for precise and clean wire printing.

Optional separation unit

The optional separation unit separates multiple inner conductors quickly and carefully – with no loss in quality. Using the



patented Komax roller system, the inner conductors are pressed apart with great care. The forward and reverse function of the rolls allows even short wires to be processed with ease.

Optional slitting unit

The fully programmable optional slitting unit allows production of intermediate strips. Long sheath pieces needing to be stripped can also be slit for an easier stripping process. The combination of dual cutting head, rotary cutting unit and slitting unit means up to four different process positions can be controlled for one wire.

Sensor technology

Thanks to automatic wire diameter and cross-section detection, it is quick and easy to set up and parameterize new wire materials. This unique measuring principle reduces what was previously a time-consuming set-up to an absolute minimum. The optical wire detector also makes cut losses a thing of the past. The same sensor continuously monitors the processing during production, enabling wire ends and transport errors to be recognized as early as possible.

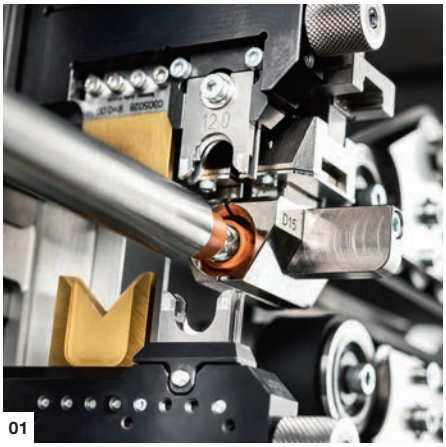
Peripherals and interfaces

Integration of wire feed systems, different pressure systems, active deposit units and much more is standardized and therefore extremely easy. Data backup, software updates and the import of CSV product data are all carried out via a USB stick. Furthermore, the Kappa 340 can also be connected to TopWin Kappa.

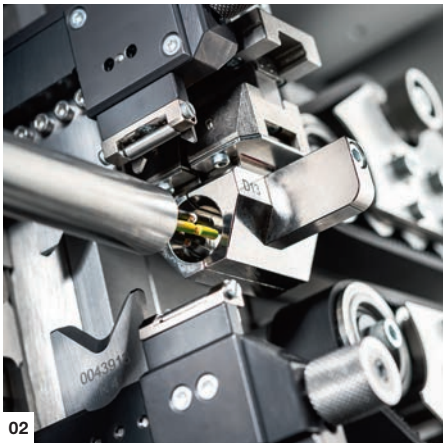
TopWin Kappa – perfectly networked

The TopWin Kappa operating software enhances the capabilities and functionality of Kappa machines via a clear-to-use PC user interface. Using TopWin Kappa allows inkjet, laser and label printers to be programmed and controlled. It is also possible to choose between different production philosophies, such as sequence production, parts-list, harness processing mode and multi-lead sets. TopWin Kappa can be easily integrated into networks via the WPCS interface, including existing user networks. The production-control room software also enables centralized data management, production control and monitoring.

WELL EQUIPPED
FOR TECHNICAL REQUIREMENTS BOTH NOW AND IN THE FUTURE



01



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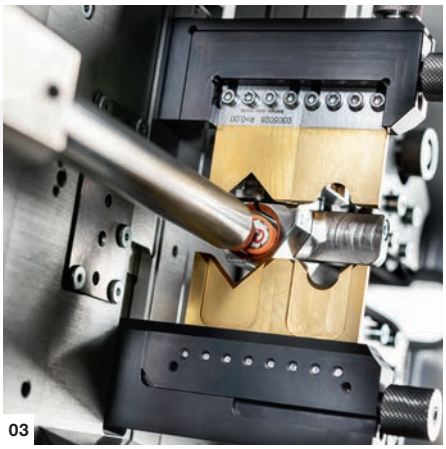
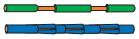
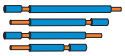


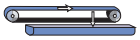
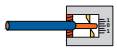
03

01
Dual head incl. form blade with support plates
02
Dual head with separation unit
03
Dual head with V-blade and V-form blade

Processing examples and functions

Cutting to length	
Full stripping	
Partial stripping	
Multi-step stripping	
Center stripping / Intermediate slitting	
Multi-conductor cable processing	
Core processing for shielded cables	
Multilayer cable	

Flat cable processing	
Cutting pulled strands / Zero cut	
Hot stamp marking	
Inkjet marking	
Label printing	
Coiling / Binding	
Sequence processing	
Wire draw-in (roller drive / belt drive)	

Rotary incision	
Wire deposit system	
Pulling / Dereeling prefeeder	
Batch separation	
Sensor technology: Conductor / Cable detector	
Wire length correction	
Networking (Manufacturing execution system, WPCS, MIKO)	

Technical data

		Kappa 340 with RIU	Kappa 340 without RIU
Wire cross section*		0.22 – 70 mm²/ AWG24 – 2/ 0	
Max. outer diameter		16 mm (0.63 in.)	
Wire length accuracy		Length tolerance ±(0.2% +1 mm [0.039 in.])	
Max. wire transport speed		4.0 m/s (157.5 in./s)	
Flat wire processing		Optional 16 mm (0.63 in.)	
Inner conductor processing		4 × 0.35 mm² to 3 × 2.5 mm² / 4 × AWG22 to 3 × AWG13*	
Wire length range (short mode possible)		1 mm (0.039 in.) – 800,000 mm (874.89 yd.)	
Max. stripping lengths*	Full strip	Side 1: 260 mm (10.2 in.) Side 2: 135 mm (5.3 in.)	
	Half strip	Side 1: 999.9 mm (39.37 in.) Side 2: 999.9 mm (39.37 in.)	
	Semi strip	Side 1: 999.9 mm (39.3 in.) Side 2: 999.9 mm (39.37 in.)	
Center strip	Number/length	Programmable (no restriction in terms of number and length)	
Rotary incision	Programmable incision diameter on one or more wire layers	Standard	Retrofittable
Monitoring	Wire and wire feed monitoring, zero-cut optimization, automatic cross-sectional and outer diameter measurement	Optional	
Length measuring system	Precise rotary incision positioning, precise cutting to length, automatic length correction in case of diameter loss due to belt or roller wear, wire slip compensation and wire end detection	Standard	
Wire transport system	Multiple supported belt drive	Yes	
IOCS interfaces	(expandable)	3 (6)	
USB	Data backup, software updates, CSV import of product and wire data	Yes	
Networking	Control center, WPCS, TopWin Kappa	Optional	
Storage capacity		Tens of thousands of products	
Electrical connection		110/230 VAC ±10% – 50/60 Hz 250 VA	

* Kappa machines can process many wires outside the indicated cross-section range. It may not be possible to process some extremely hard, tough wires, 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.

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Subject to change