



KTR 15

Taping machine



KTR 15

Maximum flexibility for long taping segments

Optimum handling is essential with long lines and branches. For this reason, KABATEC has developed the KTR 15 designed for wire harness lengths from 1.5 meters onwards. Very long, heavy wire harnesses can be conveniently inserted into the machine from the front or from the side thanks to the open winding head. The open winding head also delivers maximum flexibility when long wire harnesses need to be taped with different types of tape. The wire does not have to be threaded through a closed winding head; it can simply be guided through the open winding head, making the process far more efficient. The process then starts at exactly the right position. One advantage which is particularly beneficial for the production of trailer wire harnesses. These wire harnesses are very long (up to 10 meters) and, on the other hand, are required for both inside and outside.

Options tailored to customer wishes

Even more flexibility for individual options: The KTR 15 is supplied with different applications on customer request.

Faster production time

The optional tape end detection sensor ensures smooth production processes: A sensor detects when the tape roller needs to be replaced. The process then starts at exactly the same position.





**Twice as good:
winding aid**

Two problems, one solution? The optional winding aid prevents unwanted twisting which can occur on tapes with high pull-off forces. The winding aid also produces flexible wire harnesses which can be fitted easily into vehicles, for example. Fitted with two additional rollers, the winding aid also helps pulling off the tape. It can be individually set to the tape's strength.

**Effective protection:
safety flaps**

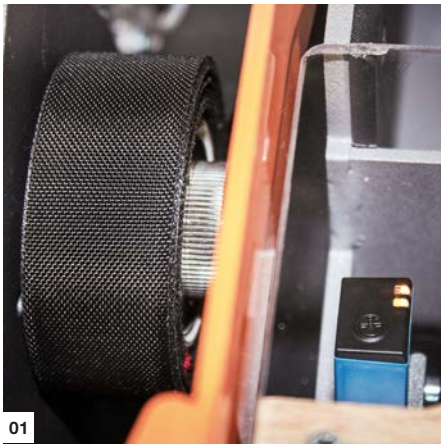
The safety flaps protect both sides of the winding area. The KTR 15 is available either with or without side safety flaps. KABATEC recommends using a positioning aid together with the safety flaps.

**Consistent overlapping:
positioning aid**

The optional positioning aid helps to effectively reduce operator intervention. Once the wire has been inserted, the roller pre-feed first moves the positioning aid and then guides the wire into the machine. This produces a taping with clean overlaps which meet the highest quality requirements.

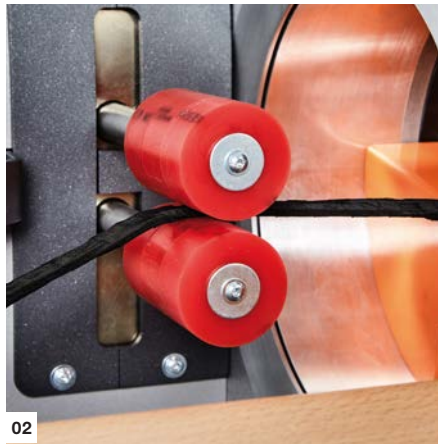
**Ergonomics and user comfort:
height-adjustable frame**

The standing workstation can be adjusted individually to each operator:
The optional frame can be varied in height from 1 to 1.5 meters.



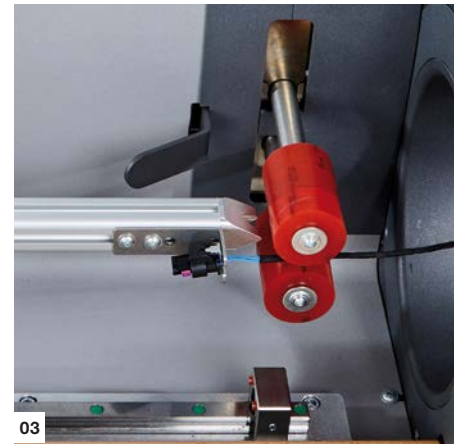
01

01 The tape end detection sensor (optionally available) ensures optimum production processes.



02

02 Thanks to the open winding head, long wire harnesses can be taped quickly and efficiently.



03

03 Outstanding quality: The optional positioning aid ensures consistent overlaps.



The rotary incision with 4X-blades (below) achieves a higher cutting ratio and a smoother surface than a V-blade incision (above).

High productivity – fast handling

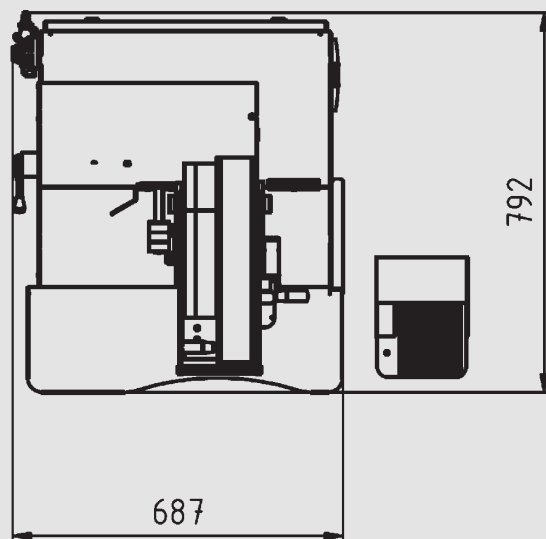
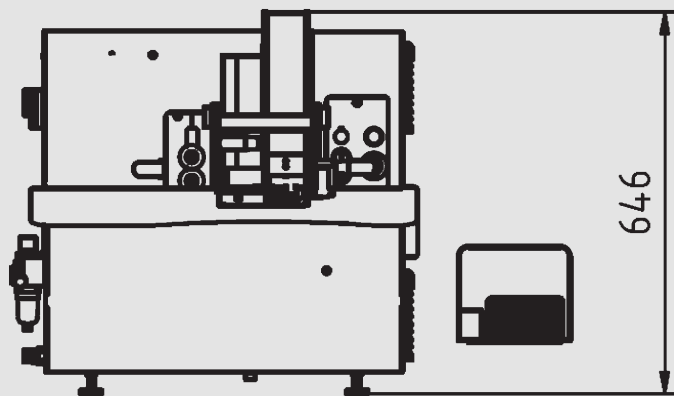
- Two to three times faster winding speed compared to manual taping.
- Material savings of up to 25 percent compared to taping by hand.
- Long wire harnesses are inserted or added quickly and efficiently.
- Continuously variable speed control by foot pedal.

Best quality due to machine-aided process

- The roller pre-feed is continuously adjustable and ensures consistent overlapping according to requirements.
- Consistent tape tension and guidance ensures wrinkle-free taping.

An entry-level machine for automated taping

- Compact and reliable high-quality machine with low maintenance costs.
- Easy to operate.
- Safety advantage: The safety flap in front of the winding area moves up automatically when the foot pedal is pressed. Once taping is complete, the flap opens again.



Technical data - The KTR 15 at a glance

Application	Taping of simple or pre-fixed and long wire harnesses with a low number of branches
Adhesive tape and wire harness data	
Wire harness diameter	< 20 mm (optional: < 40 mm)
Max. winding length	Limited by tape length
Adhesive tape materials	A wide range of automotive and industrial tapes (optional: double taping with non-adhesive aluminum tape)
Tape width	9 – 19 mm (on request < 25 mm)
Tape roller core diameter (standard)	1.5" and 3"
Maximum tape roller outer diameter	Max. 180 mm
Machine data	
Winding head rotational speed	100 – 1000 rpm, speed control continuously via foot pedal incl. winding head positioning
Pre-feed type	Roller pre-feed
Pre-feed	0 – 70 mm/U, continuously adjustable
Tape end detection	Optional (with optical sensor)
Electric connection	L/N/PE 210 – 240V AC/50 – 60Hz +-10% (optional: L/N/PE 100 – 120V AC/50 – 60Hz +-10%)
Pre-fuse	16 A (optional 15 A)
Connected load	1200 W
Control voltage	24 V DC
Operating pressure	6 bar (0.6 Mpa / 87 psi)
Dimensions (HxWxD)	645 × 687 × 792 mm
Weight	190 kg

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.