



KTL 10

Taping machine



KTL 10

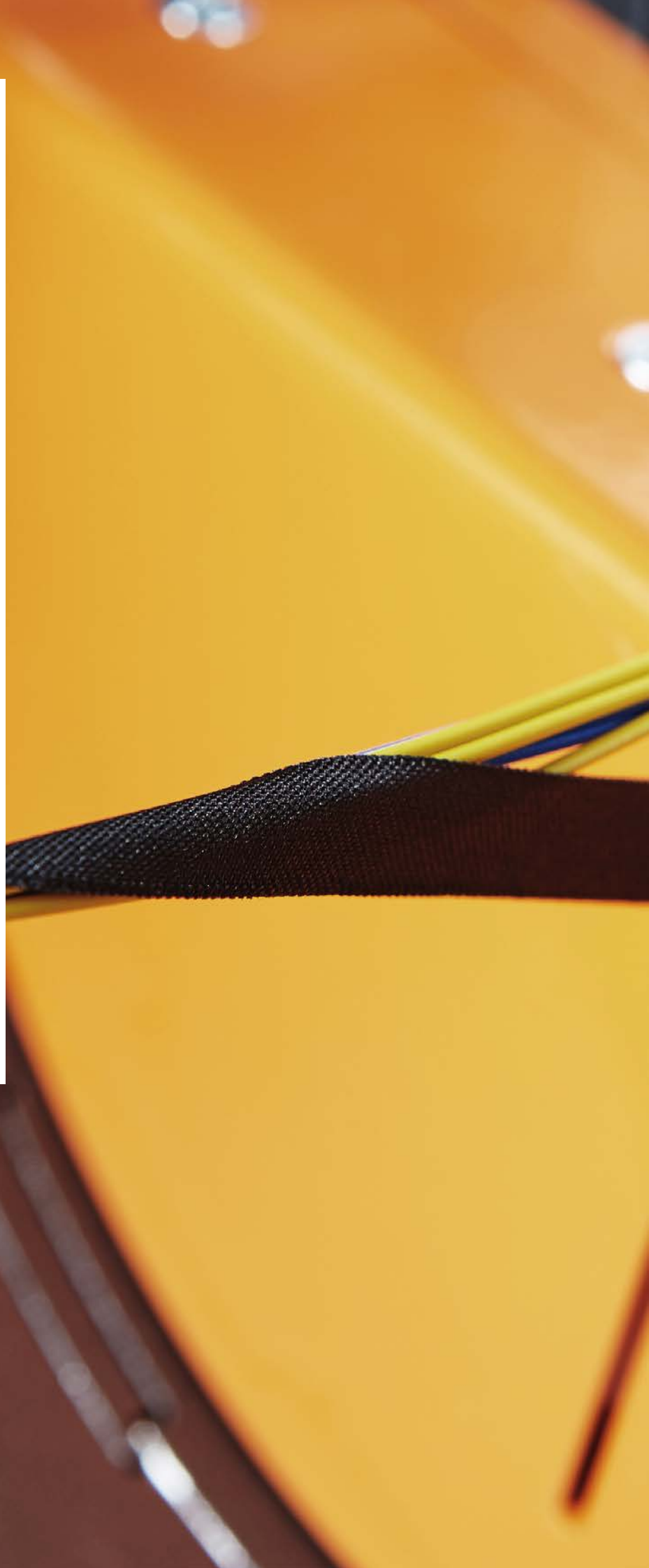
Small machine, yet high precision


It is the smallest, programmable taping machine from Komax: The KTL 10 unites precision and user-friendly handling in a compact, space-saving design. The KTL 10 reveals its true potential when taping simple wire harnesses with up to five branches. The machine can process wire harnesses or branches up to one meter in length. The similar KTR 10 CS model is designed for longer taping segments.

The KTL 10 produces millimeter-precise taping with its length measurement system on the linear feed. It is ideal for small wire harnesses without any fixtures required. The linear feed can be set from 1 to 70 millimeters per winding head rotation on the display panel to produce highly precise taping which meets stringent quality requirements.

Handling extras complete the machine's productivity and performance. The KTL 10 was developed without roller pre-feed to ensure maximum flexibility for the operator. Other advantages include the two freely positioning hooks on the linear guide which can be used to individually set the starting point of taping. The hooks can also be used to fix routed and taped branches.

Space-saving, easy to operate and precise down to the last millimeter: Whoever is looking for a reliable, entry-level compact model for program-aided taping will appreciate the KTL 10. It saves up to 200 programs each with a maximum of 20 individual steps which can be configured separately. The KTL 10 thus provides the best conditions for professional wire harness production. No wonder that this "small gem" has secured its place in the Komax portfolio.



A close-up photograph of a yellow terminal block. Several wires are plugged into it: a yellow wire, a blue wire, and a black wire. A metal component, possibly a terminal or a connector, is attached to the block. In the background, a red-handled screwdriver and a green-handled screwdriver are visible, suggesting a workshop or assembly environment. The image is partially overlaid by a white and grey geometric shape in the bottom right corner.

**INDIVIDUAL AND
FLEXIBLE
OVERLAPS CAN BE
PROGRAMMED SEPARATELY
FOR EACH BRANCH.**

◀ Tape saving function, full taping or overlaps possible according to individual requirements:
The KTL 10 offers the highest dimensional accuracy.

COMPACT, ROBUST AND RELIABLE

EASY TO INTEGRATE INTO ANY OPERATION



▶ The KTL 10 processes virtually all types of conventional tapes and can be used for a variety of wire harness geometries.

For precise taping

- Wrinkle-free taping thanks to consistent tape tension and guide.
- Length measurement on linear feed allows millimeter-precise taping.
- Linear feed can be set from 1 to 70 millimeters per rotation of the winding head.

Impressive handling

- No roller pre-feed, making the winding head easily accessible. This is particularly advantageous when handling short branches.
- Operation is intuitive and easy to learn.
- Space-saving machine which can be quickly integrated into every production.
- Reliable and low-maintenance for maximum utilization.

Programmed for maximum quality

- Ideal entry-level model for program-assisted taping.
- 200 programs with 20 steps each which can be configured in terms of length, start and end tape bundles as well as speed of winding head and pre-feed.
- Reproducible quality for highest professionalism.



01
Intelligent: Linear feed with integrated length measurement.

02
Consistent overlapping according to requirements.

03
Test new programs with the semi-automatic mode: Winding head rotations are controlled with a foot pedal so that the speed can be reduced in good time.

04
Program-aided taping for reproducible, outstanding quality.



01



02



03



04

Additional equipment options

Komax supplies the KTL 10 with numerous options upon customer request. The machine can be perfectly adapted to individual requirements.

Winding tables on request

The tape width, wire harness diameter and proximity to plug determine which winding table is best suitable for your needs. Six different versions of the KTL 10 are available as an option. There are also two types which are specifically designed for the production of double tapes.

Doubly beneficial: winding aid

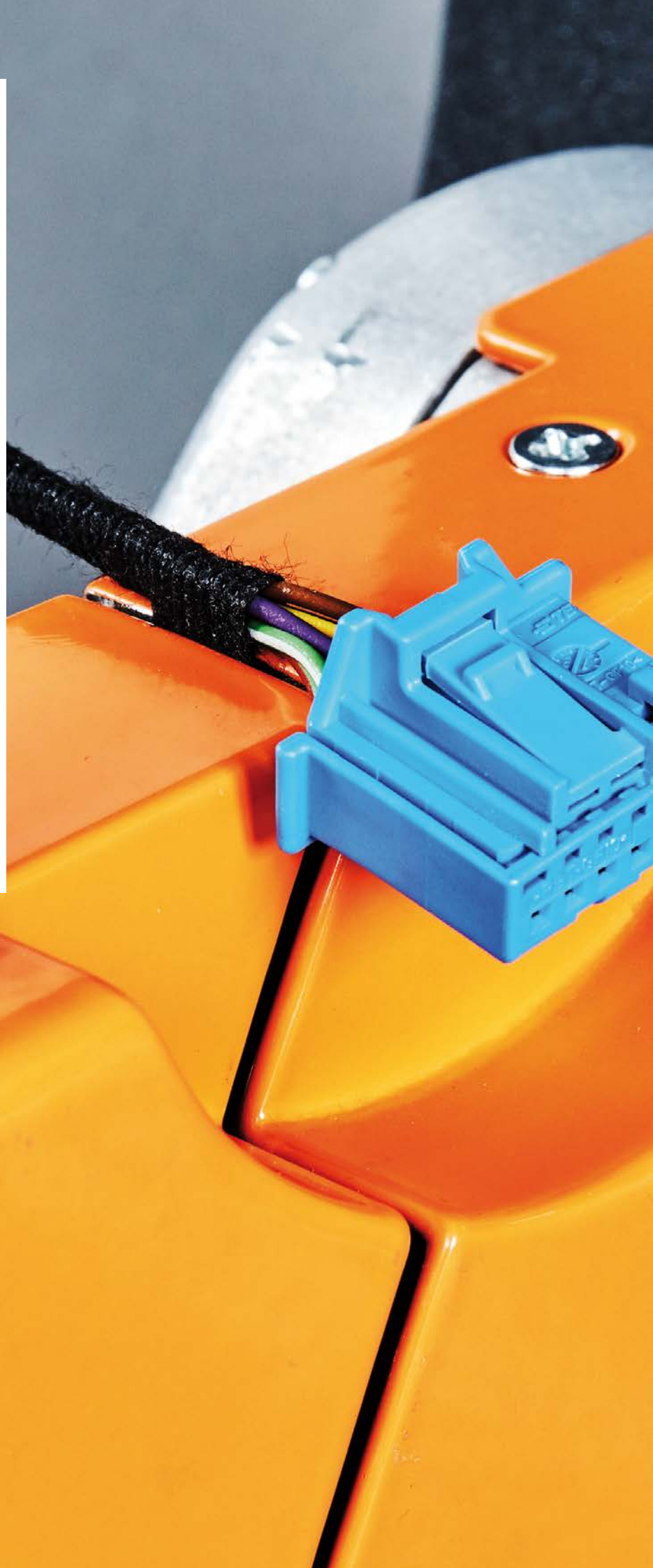
The optional winding aid makes it easier to use tapes with high pull-off forces. It supports the tape pull-off and reliably prevents undesired twisting. The machine produces flexible and elastic wire harnesses which can be easily molded into shape.

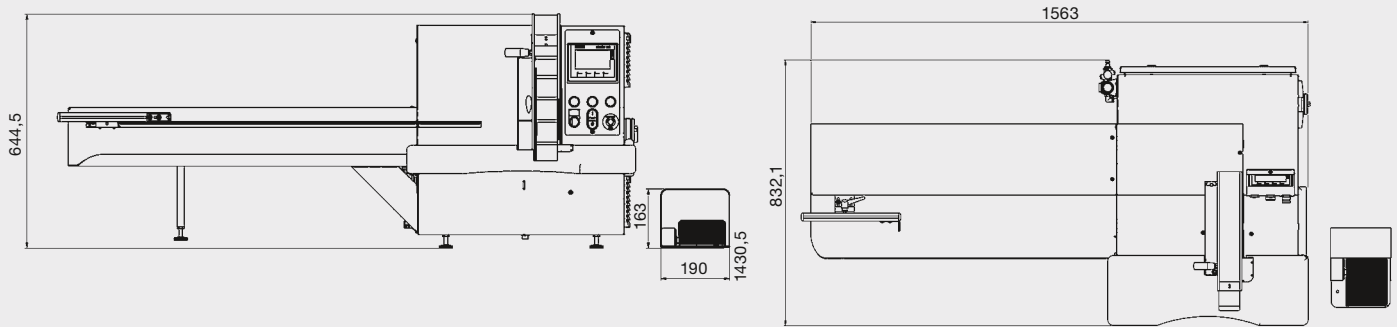
Tape end detection by sensor

The last layer of tape often contains residues of the cardboard roller core which are then difficult to unwind. Thanks to the optional tape end detection, an acoustic signal is emitted before the roller is empty. The operator then inserts a new roller and can continue the process at the same position.

Further options

- Safety flaps for maximum operational safety.
- Ergonomic thanks to height-adjustable frame.
- Separate clamping rings for double taping.





Technical data - The KTL 10 at a glance

Application	Taping of simple or pre-fixed wire harnesses with a low number of branches
Adhesive tape and wire harness	
Wire harness diameter	< 20 mm (optional: < 40 mm)
Max. winding length	Limited by tape length
Adhesive tape materials	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
Double taping 2 x 1.5"	
Tape roller core diameter	2 x 1.5"
Maximum tape roller outer diameter	125 mm (both)
Double taping 1 x 1.5" + 1 x 4"	
Tape roller core diameter	1 x 1.5" (tape) + 1 x 4" (aluminum film)
Maximum tape roller outer diameter	125 mm (tape) + 210 mm (aluminum film)
Machine data	
Winding head rotational speed	100 – 1000 rpm, speed control continuously via foot pedal incl. winding head positioning
Pre-feed type	Linear feed
Feed	0 – 70 rpm, continuously adjustable
Length of linear unit	1,000 mm
Tape end detection	Optional (with optical sensor)
Program steps for each program	20
Program slots	200
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	1500W
Control voltage	24 V DC
Operating pressure	6 bar (0.6 MPa / 87 psi)
Dimensions (H/W/D)	645 × 1536 × 832 mm
Weight	200 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.