



# KT 800 KT 810

Taping machine



## Innovation for Fast Performance

Komax sets new standards in taping technology: Based on an innovative machine concept, which is unique worldwide, the fully automatic KT 800 and its model variant KT 810 are extremely convincing products. These are the first machines to apply tape with the wire rotating while the tape roll remains stationary. In this way, simple and short wire harnesses without branches are taped at maximum speed and with ultimate precision. These are ideal conditions for producing wire harnesses in large quantities.

The KT 800 is available in two different versions, depending on the particular requirements: for taping lengths of up to 0.5 meter (as standard) or up to one meter. The KT 810 is designed for lengths of up to one meter. Both machines deliver exceptionally fast processing speeds of 2,000 rotations per minute.

The handling simplicity also minimizes production times: Firstly, the wire is inserted and clamped into position. The force monitoring sensor ensures that no excess tension is applied to the wire during clamping. The operator then starts the fully automatic process. A safety cover, which opens and closes automatically, offers maximum safety. This ensures quality without operator input – at maximum speeds.



▶ **KT 800: Ideal entry-level machine for high-speed taping.**

# ECONOMICAL AND USER-FRIENDLY HIGH-SPEED TAPING COURTESY OF INNOVATIVE TECHNOLOGY



▶ **KT 810:** The version shown here is for processing non-adhesive tapes.

## **KT 810: Specialist for shielded wires**

Komax has developed the KT 810 as the perfect solution for the production of twisted wires and wires shielded with aluminum foil (for example, motor wires). It is based on the tried-and-tested technology of the KT 800 but offers more besides: The KT 810 is equipped with two separate motors, which can be operated inversely or separately and can therefore produce twisted wires.

The option of producing wires shielded with aluminum is also available on customer request. This process involves applying non-adhesive tape or aluminum foil to the wire and then taping the wire bundle on each side.

In contrast to the KT 800, which uses a single gripper to insert the wire, the KT 810 has pneumatic grippers on both sides, which open and close automatically. As an option, the grippers can also be exchanged so that they can be adapted to a variety of requirements. In addition, the fixture on the right-hand side of the KT 810 can be moved. It moves automatically to the preset position as soon as the program is loaded. An advantage that ensures zero-error operation.

### Extras on customer request

For the KT 800 and KT 810, Komax has developed numerous options that can be provided on customer request.

### Tape end detection

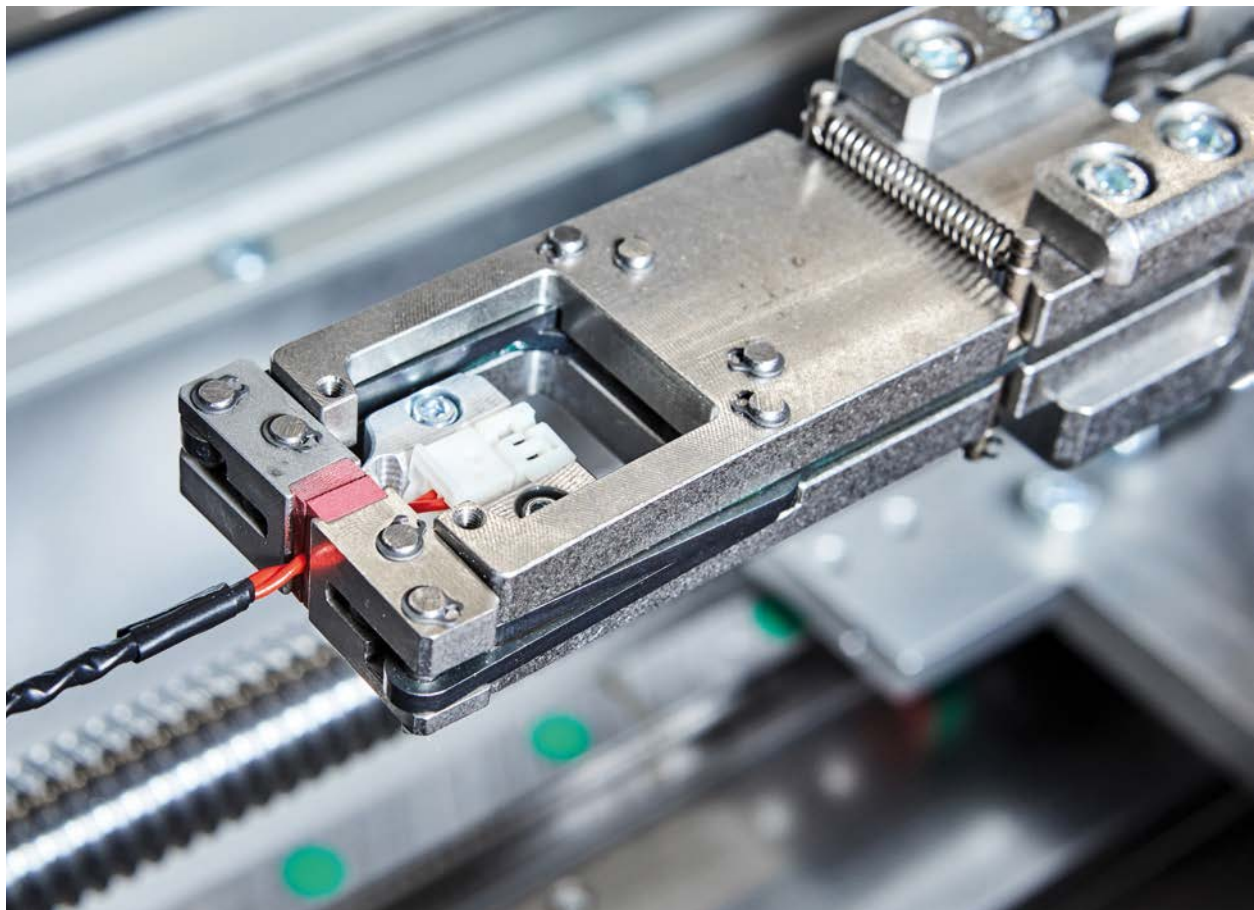
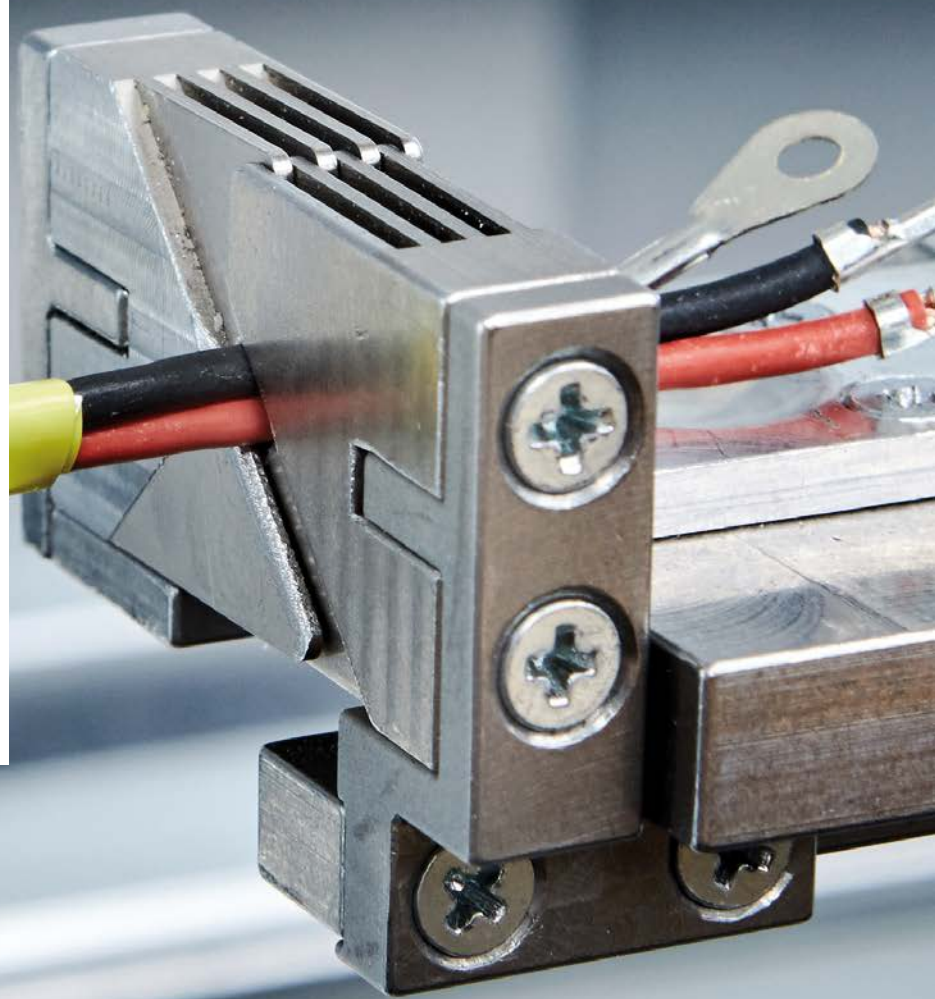
An option that guarantees smooth and efficient production processes: With the help of a sensor, the operator changes the empty roll of tape at the right time, thus avoiding incorrect taping.

### Bar code scanner

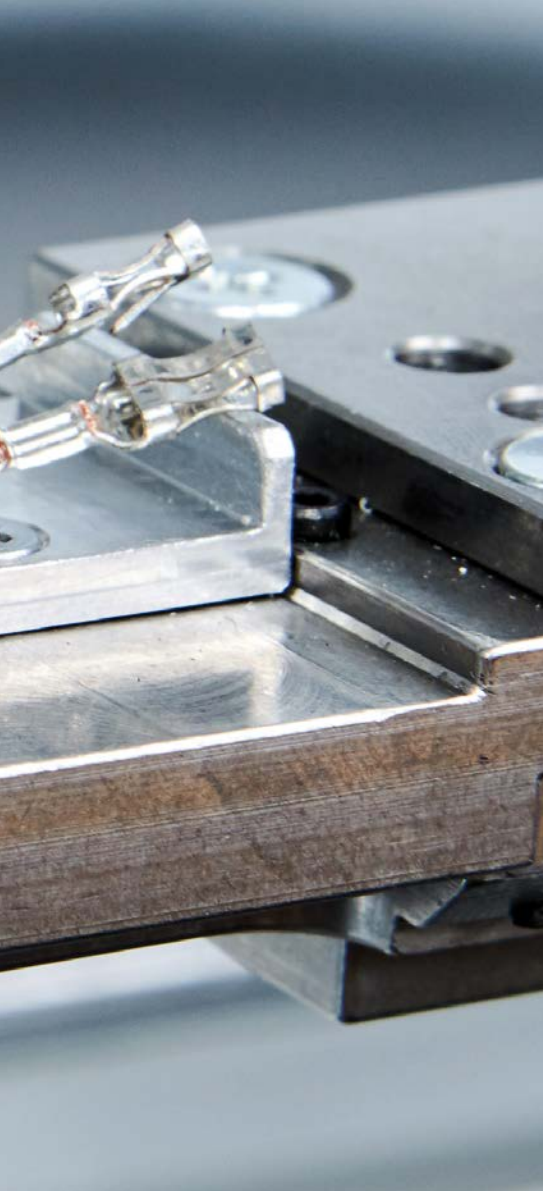
A popular option in professional wire harness production is the use of a bar code scanner. The program is loaded automatically and production can begin immediately.

### Options exclusively for the KT 810

- For the production of shielded wires, the KT 810 is available as a model for non-adhesive tapes.
- Less load on the plug:  
Various grippers are available for the KT 810. All grippers are produced according to individual requirements on customer request.



▶ Grippers, individually adapted to customer requirements, are available. The grippers are used to grip and clamp the wires to ensure there is no additional load on the plug.



### Unique innovation

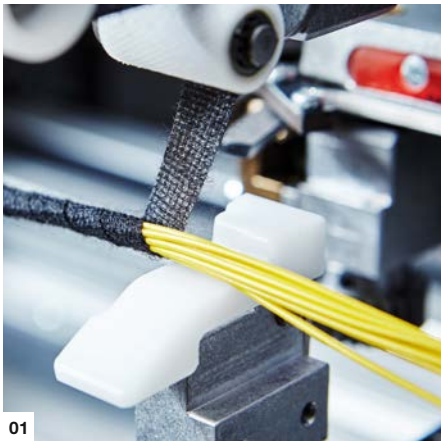
- The principle of the wire harness rotating while the tape roll is stationary is unique the world over. This innovation delivers a maximum taping speed.
- Individual consultation from experienced experts: Komax can realize a multitude of customized options. For the KT 810, special grippers are available for a variety of requirements on customer request. This allows new solutions to be created – in collaboration with customers.

### The highest quality standard

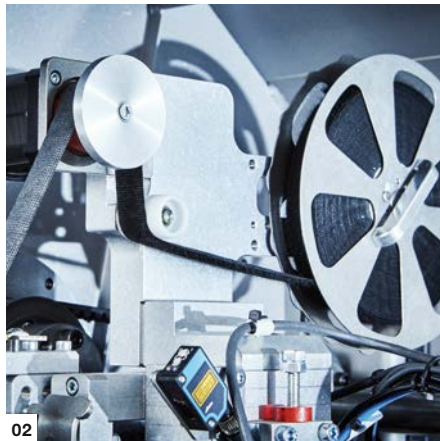
- Fully automatic production process without operator input.
- Forces applied to the wire during clamping are monitored by sensors.
- Meets the most stringent quality requirements.

### Special features of the KT 810

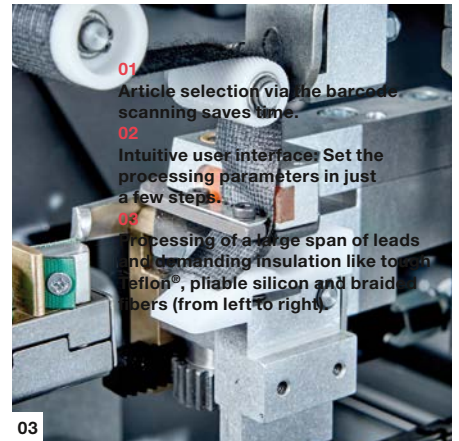
- Features two separately functioning motors so that twisted wires can be produced.
- A model with tape dispensers for the production of shielded wires is optionally available (cannot be retrofitted).
- Easy program change:  
The right-hand drive unit moves automatically to the programmed position.



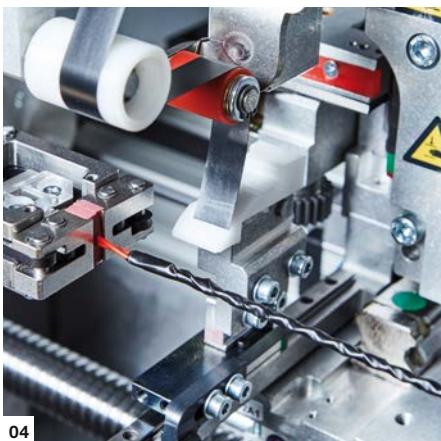
01



02



03



04



05

**01** Article selection via the barcode scanning saves time.

**02** Intuitive user interface: Set the processing parameters in just a few steps.

**03** Processing of a large span of leads and demanding insulation like teflon®, pliable silicon and braid fibers (from left to right).

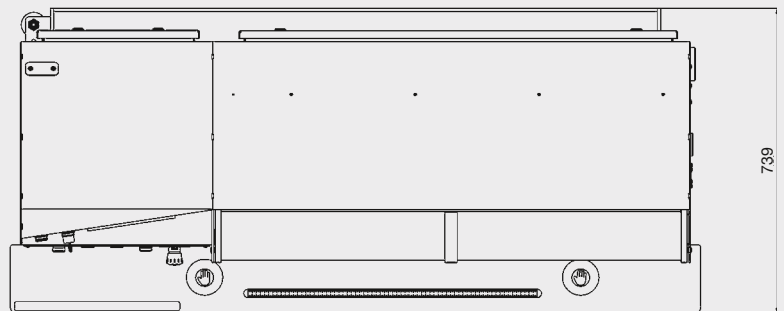
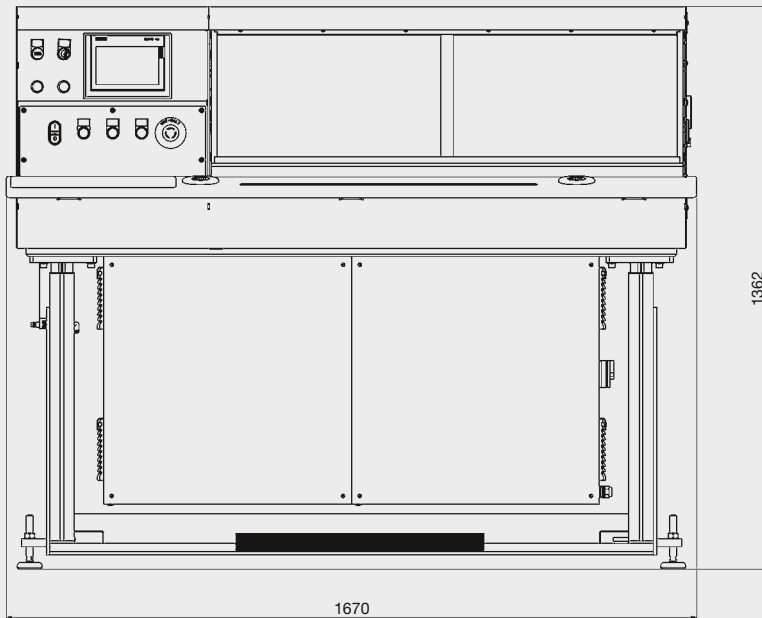
**01** Revolutionary technology: The tape is attached extremely quickly with the rotation of the wire harness.

**02** The winding aid is included as standard. It prevents any unwanted twisting of the wire and produces flexible wire harnesses.

**03** Cutter: The tape is applied and cut automatically.

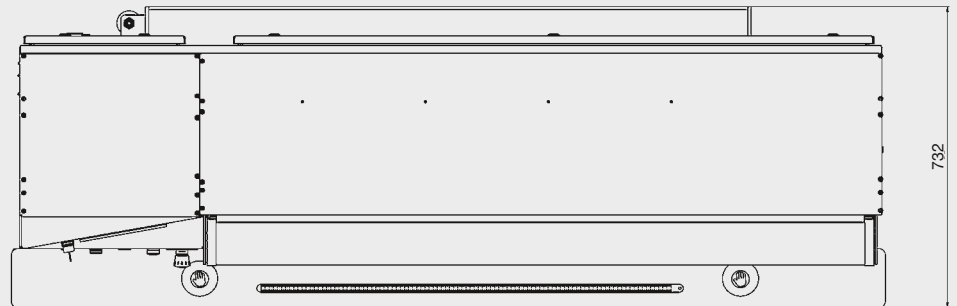
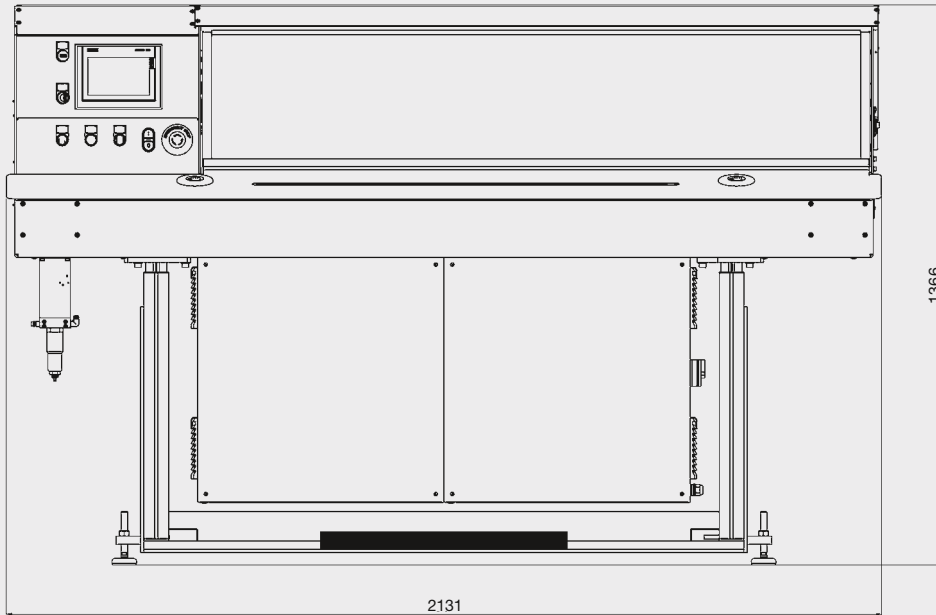
**04** Two processes in one single machine: The KT 810 produces twisted and shielded (as an option) wires for protection against electromagnetic interference.

**05** All the rotating elements are covered by the safety cover.



### Technical data - the KT 800 at a glance

Application	Taping of simple wire harnesses, without branches
<b>Adhesive tape and wire harness data</b>	
Wire harness diameter	3 – 10 mm
Maximum winding length	Approx. 500 mm (optional: 1,000 mm)
Length deviation per winding step	Max. -2% / +1%
Adhesive tape materials	A range of automotive and industrial tapes
Tape width	9 or 19 mm
Tape roll core diameter (standard)	1.5" and 3"
Maximum tape roll outer diameter	180 mm
<b>Technical data</b>	
Rotational speed	100 – 2,000 rpm
Feed	0 – 25 mm per revolution
Tape end detection	With optical sensor
Electric connection	3L/N/PE 380 – 480 V AC/50 – 60 Hz (optional: 3L/N/PE 380 – 480 V AC/50 – 60 Hz and for height adjustment 1/N/PE 90 – 127 V – 50/60 Hz)
Dimensions	1,500 × 1,700 × 750 mm
Weight	440 kg



### Technical data - the KT 810 at a glance

Application	Taping of simple wire harnesses, without branches, using adhesive tape
<b>Adhesive tape and wire harness data</b>	
Wire harness diameter	3 – 10 mm
Maximum winding length	125 mm - 1,000 mm
Length deviation per winding step	Max. -2% / +1%
Adhesive tape materials	A range of automotive and industrial tapes
Tape width	9 or 19 mm
Tape roll core diameter (standard)	1.5" and 3"
Maximum tape roll outer diameter	180 mm
<b>Technical data</b>	
Rotational speed	100 – 2,000 rpm
Feed	0 – 25 mm per revolution
Tape end detection	With optical sensor
Electric connection	3L/N/PE 380 – 480V AC/50 – 60 Hz (optional: 3L/N/PE 380 – 480V AC/50 – 60 Hz and for height adjustment 1/N/PE 90 – 127V – 50/60 Hz)
Dimensions	1,500 × 2,200 × 750 mm
Weight	440 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.