



# KTBE PLUS

Electric bundling machine



## **KTB E PLUS**

### **Perfect results in the shortest time**

The global automotive industry sets high quality standards with regard to the processing and insulation of welded connectors. In order to meet these market requirements, renowned suppliers rely on Komax quality.

The KTB E PLUS spot taping machine is one of the time-tested and continuously improved products which Komax has been producing for customers all over the world since its very inception.

Bundling – insulating – marking:

A distinguishing feature of the KTB E PLUS is its remarkably short process time of just 1.8 seconds. The machine reduces the processing time by more than 60 percent compared to manual insulation processes.

The automatic diameter recognition system allows easy operation and reduces the setup time to a minimum for each change of product. The KTB E PLUS thus guarantees a consistently high quality standard and provides the perfect solution for suppliers who produce cable sets for the automotive industry.

### **Flexibility is its forte**

- Intelligent gripper fixtures detect the diameter of the cable set being processed and ensure that the exact length of adhesive tape required is dispensed. The advantage: Work can continue straight away, without the machine having to be set up again.
- Almost all the parameters, including the pre-dispensed length, total tape length, winding head revolutions, advance speed and even the motor ramps, can be set to user-defined values.

### **Quality advantages of the KTB E PLUS**

- High level of vertical integration: The durable blades of the KTB E PLUS were specially developed by Komax and are manufactured in Burghaun, Germany.
- The software and user interface of the machine were developed in-house by Komax.
- All components – such as the valve islands and controls of the electronic system – are made by renowned brand-name manufacturers and contribute to the excellent quality of the machine.

### **Low maintenance frequency**

- Automatic display of maintenance intervals. Blade lubrication is also automatic.

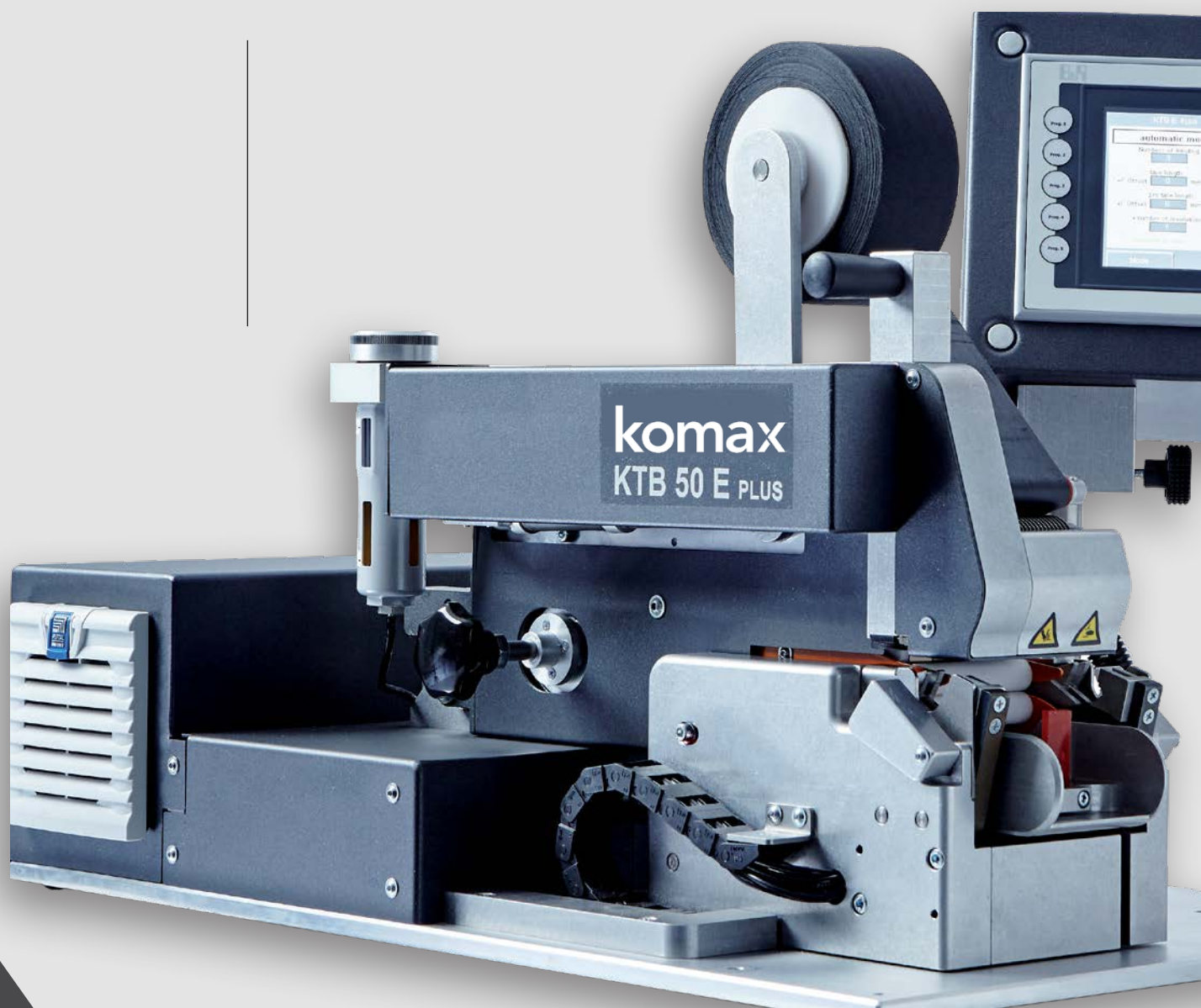




# ELECTRICAL AND PRECISE

◀  
The KTB E PLUS  
insulates, bundles,  
fastens and marks  
cables of various types.

# QUICK AND HIGHLY EFFECTIVE



▶ Processing takes only around 1.8 seconds – this means that the KTB E PLUS saves more than 60 percent of the time otherwise taken for insulating by hand.





**Consistent production quality**

The KTB E PLUS semi-automatic spot taping machine performs three processing steps in a very short time: Tape dispensing, cutting and winding around the cable.

First, the cable is inserted. The gripper grips it and moves it into the machine. At the same time, the preset quantity of tape is pre-dispensed. It then moves against the tape and then immediately passes through the applying rollers. These ensure that the cable is completely enclosed. The adhesive sides of the tape come together.

While the cable then moves further into the bundling head, more tape is dispensed until the required length of tape is reached. The optimum tape length is determined automatically by the KTB E PLUS based on the thickness of the cable, which is detected when the cable is first inserted, and on the programmed number of windings. The adhesive tape is then cut.

Now the cable has reached the middle of the bundling head: Here, the rotation of the bundling head causes the tape to wrap around the cable – in accordance with the programmed values.

**Optional ingenious details for easy handling**

- The tape pre-pull-off aid assists with the processing of PVC adhesive tape.
- The applying system prevents the adhesive tape from being pulled out.
- The compressed air jet is used for stabilizing thin tapes.

**Economic advantages**

- The amount of adhesive tape required can be precisely calculated thanks to the programmable number of windings.
- Excellent economic efficiency: Material costs are up to 80 percent less than for heat-shrink tubing – and processing is also faster.

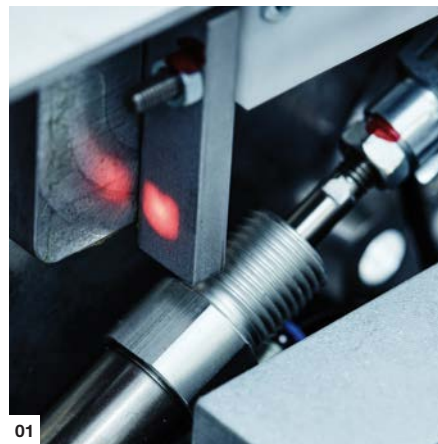
**01**  
Intelligent gripper automatically detects the cable diameter.

**02**  
Air jet stabilizes thin tapes.

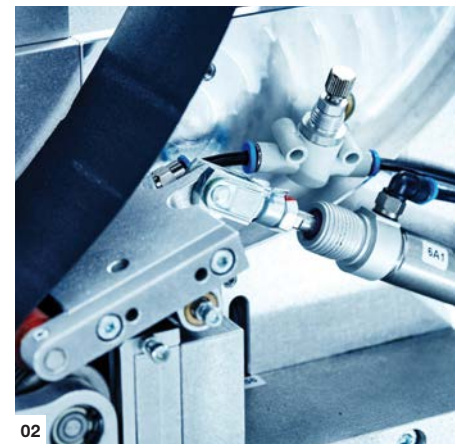
**03**  
Individual programming of almost all process parameters.

**04**  
Bundling head for precise positioning of tape.

**05**  
Specially fully-hardened and sharpened blades for different types of tape.



01



02



03



04



05

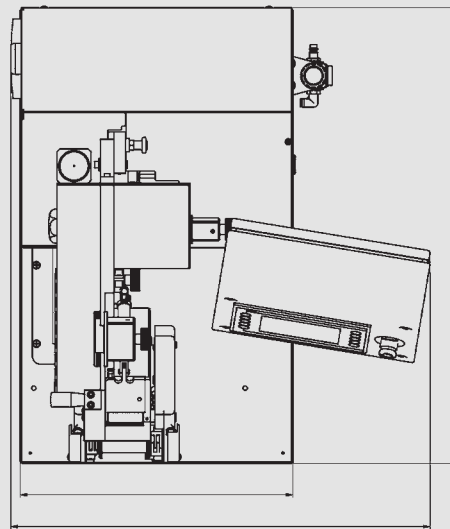
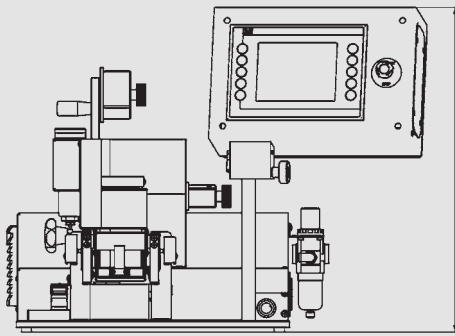


Komax also provides tailored customer service solutions: As there are so many different tapes, cables and cross sections, customers can send in a material sample for feasibility testing. Komax then supplies the machine with the ideal settings already made.



## Technical data – The KTB 50E PLUS at a glance

Type of use	Bundling, fixing, insulating, marking, labeling (also suitable for very small diameters)
Adhesive tape materials	Practically all common types of adhesive tape
Tape width KTB 19 E PLUS KTB 38 E PLUS KTB 50 E PLUS	9 – 19 mm 9 – 38 mm 9 – 50 mm
Core diameter of tape roll	1.5" and 3"
External diameter of tape roll	180 mm
Bundle diameter	2 – 15 mm
Connection	Single phase 100 – 240 V, 50/60 Hz, 6 bar compressed air
Dimensions	400 × 475 × 667 mm
Weight	Approximately 45 kg



### As easy as one-two-three – perfectly tailored solutions for every tape width

There are three models of the KTB E PLUS: The largest model is the KTB 50 E PLUS, which processes adhesive tapes up to 50 millimeters wide. It was specially developed for insulating intermediate nodes.

For tape widths of up to 38 millimeters, the KTB 38 E PLUS is the ideal choice.

The third and smallest model is the KTB 19 E PLUS: This model is perfect for tapes up to 19 millimeters wide.

**01**  
**KBT 19**  
**02**  
**KTB 38**  
**03**  
**KTB 50**



01



02



03

## 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.