Taping machine

KTR 160

THE PERFECT SOLUTION

Taping cable harnesses and modules; e.g.: (door cable harnesses, mirror wiring, battery cable harnesses, roof cable harnesses, etc.). Taping lengths and feed rates can be programmed in individual winding steps and processed in succession, enabling a wide variety of cable harness geometries.

YOUR BENEFITS

Highest process quality and operator safety

- Optimized length measurement and careful transport of wire harness thanks to the innovative belt feed system
- Reproducible taping quality through program control
- New automatic protective cover closed on both sides

Highest productivity

- Two servo drives enable extremely short start and stop times for the winding head
- Freely positionable, pneumatic gripper shortens downtimes and enables differing start positions for the tape
- Automatic start command through closure of the protective cover, no foot pedal
- Rotational speed and overlapping can be changed within a winding step, so no intermediate stop is necessary

Highly user and maintenance-friendly

- Simple operation thanks to easy program import and touchscreen
- Operator-guided taping process with visualization of up to 20 programming steps
- Low-maintenance and reliable machine design
PROGRAMMING

• Programming via Siemens industrial PC
• User-friendly program structure
• 1000 program lines/program
• Storage and loading of programs to/from company network, internal hard drive, USB stick, etc.
• Scanner for selection of programs and assignment of programs and products
• Programs can be created both on the machine and externally
• Visualization and annotation of winding steps (photos, drawings, work instructions, etc.)
• Conversion from existing programs
• Three different user levels
• Generation of different projection dimensions through programmable gripper
• Calculation program for determination of all relevant process parameters (rotational speed, tape width, feed rate, tape consumption, etc.)

OPTIONS

• Electric adjustment of working height
• Height-adjustable winding table
• Customer-specific winding tables for different taping requirements
• Tape unwinding device (to reduce twisting with small cable diameters)
• Double taping – processing of two sections of tape simultaneously; e.g. aluminum PVC
• Device for processing tapes with carrier films
• Coiler
• Centralized data storage

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<tr>
<th>Application</th>
<th>compact machine for cable harnesses with a wide variety of requirements</th>
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<tr>
<td>Tape materials</td>
<td>all conventional adhesive tapes</td>
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<tr>
<td>Tape width</td>
<td>9 – 19 mm</td>
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<tr>
<td>Tape outer diameter</td>
<td>up to 180 mm</td>
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<td>Tape core diameter</td>
<td>1.5° and 3°</td>
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<tr>
<td>Rotational speed</td>
<td>100 – 1000 rpm, programmable</td>
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<td>Winding head:</td>
<td>closed placed automatically in tape attachment position</td>
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<tr>
<td>Feed rate</td>
<td>0 – 50 mm/rotation, programmable belt-feed</td>
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<tr>
<td>Tape-end detection</td>
<td>contactless</td>
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<tr>
<td>Cable harness diameter</td>
<td>up to 20 mm</td>
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<tr>
<td>Connection</td>
<td>3-phase 230 V / 400V-50 Hz, 6 bar compressed air</td>
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<tr>
<td>Dimensions (WxHxD)</td>
<td>1449 x 1340 x 835 mm</td>
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<td>Weight</td>
<td>380 kg</td>
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