

New energy storage wiring harness production steps

What are the steps of wiring harness production?

Wiring harness production is divided into several steps of value generation. These include, for example, cutting the individual-colored wires, pre-assembling the wires, assembling the complete wiring harness, electrical tests and packaging the wiring harness for transport. The degree of automation of these sub-steps varies greatly.

What is a complete wire harness production?

A concept for a complete wire harness production includes the production steps wire cutting, stripping and crimping realized by one crimping machine as well as placement of connector housings on the mounting board, wire routing, contact insertion, wrapping and harness removal executed by four different robots .

How is a wiring harness manufactured?

The wiring harness manufacturing is divided into three main manufacturing areas, the cutting area, pre-assembly area, and final assembly area. The manufacturing process starts in the cutting area, in which automated machines cut wires with different cross-sections into predefined lengths, strip the cable isolation, and add seals and crimps.

What is wiring harness manufacturing process chain?

Wiring harness manufacturing process chain The wiring harness manufacturing is divided into three main manufacturing areas, the cutting area, pre-assembly area, and final assembly area.

Are high-voltage wire harnesses a new technology?

Today's manufacturing processes of high-voltage wire harnesses are part of the new technology and determined by a high level of manual work reaching up to 85% of the added value in manufacturing. The rationalization potential exhibited by the automation of manufacturing has not been fully exploited.

How are complicated wire harnesses built?

Complicated wire harnesses are not built in a single step. They are built by a sequence of operations such as those outlined in Figure 1. While some operations can be automated, many are still manual. More importantly, the exact details of each step will depend on the harness design.



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