

What is the basis for the industrialization of the harness maker?

The basis for the industrialization of the harness maker is a 2D drawing of the HV wire harness and processing specifications of the purchased components. At the same time, the 2D drawing is the main information carrier and decisive document in the development and product documentation process between the OEM and the harness maker.

What is the economic potential of HV wire harness manufacturing?

On average, the manufacturing of an HV wire harness accounts for 20% of the total costs. In combination with sharply increasing labor costs in the automotive wire harness industry and a manual added value in manufacturing reaching up to 85%, the automation of manufacturing represents a high economic potential [4; 6-9].

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.

Why do harness manufacturers need flexible solutions?

Taking into account that manufacturing processes differ between harness makers and a high number of different variants needs to be handled, flexible solutions are required, which must prevail in a very price-sensitive market environment.

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Our Energy Storage Cable: high voltage resistance; acid and alkali resistance; cold resistance; moisture-proof; strong flexibility; oil resistance; mildew-proof

The paper examines key advancements in energy storage solutions for solar energy, including battery-based systems, pumped hydro storage, thermal storage, and emerging technologies. It references ...

It is necessary to have a multi-voltage power supply with a direct current electrical energy storage system [2]. Operating voltage up to 800 volts, this system includes specifically developed high-voltage (HV) wire harnesses [3]. The new technical challenges combined with increasing quality requirements and financial pressure result ...

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