P1005



HYDROPHILIC COATING OF CATHETERS

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The robotic line is designed for the automatic hydrophilic coating, drying, patency testing, and subsequent assembly of medical catheters. Operators load the semi-finished products into holders on handling pallets, which are then automatically transported between the individual process stations.

Handling within the system is performed by two KUKA six-axis robots. The first section of the line includes product coating, drying and inspection. The second section includes the fitting of protective components, handling of completed assemblies and their placement into output boxes.

The hydrophilic coating is applied using a dipping method. This is followed by the removal of excess solution through shaking and air blowing, controlled drying, and an automatic check of the catheter's patency using a test wire. The correctness of assembly is verified by a camera system, and the process also includes a visual inspection by an operator.

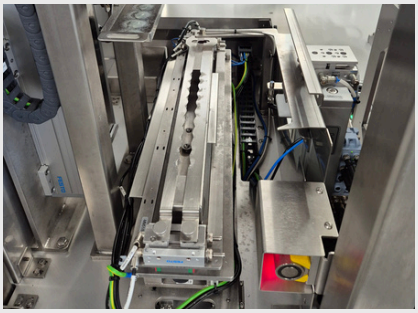
The equipment minimizes manual handling of sensitive products, increases process repeatability, and supports consistent quality in the production of medical devices. The line is designed for operation in Class 8 cleanrooms in accordance with ISO 14644-1.

HIGHLIGHTS

- Two KUKA six-axis robots
- Hydrophilic coating by dipping
- Shaking, air-blowing, and controlled drying of products
- Automatic wire-through testing
- Visual and camera inspection of assembly
- Class 8 cleanroom design







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