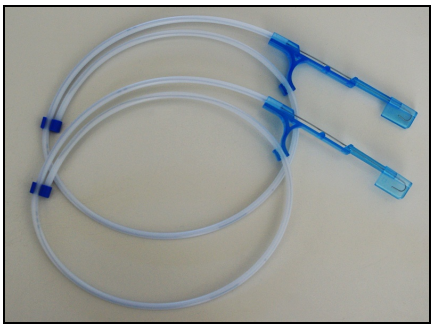
Dispenser assembly automation

43500

Description

The equipment is designed as a single-purpose automatic line to manufacture the healthcare aid GUIDE WIRE DISPENSER. Assembling of the product consists in inserting the wire into polyethylene tubes of various lengths and fitting the assembly with a group of other three plastic parts.

Feeding of material as well as individual steps of the working process are fully automated, the assembly between working stations on the line is handled by a pair of robotic manipulators of Scara type. Finished assemblies are checked by an optical camera inspection and placed as rolled up on the paddle conveyor belt.



Facts and interesting things:

- The equipment is designed for work in clean rooms of Class 8 as per ISO 14644-1.
- The frame of the line is made from stainless steel-made profiles on height-adjustable feet and is fitted with a worktop which is made from an anodized AL alloy.
- The working area of the machine is enclosed with covers made from aluminium structural profiles with fills made from transparent polycarbonate.
- The covers are blocked with safety locks during operation of the machine.
- Vibration bins are used in the machine to feed plastic parts.
- The tube is fed by an unreeling station from a reeled-up strip and it is adjusted to the required length.
- The wire is separated by an auxiliary robot by means of the drive in the bin. Insertion into the tube is carried out via the guide wire by the thrust of the cylinder powered by a servo drive.
- The automatic camera inspection will check the shape and position of the end of the wire in the tube.
- The main robot handles the parts necessary to fit completely the assembly and places finished and inspected assemblies on the output conveyor.
- The machine is managed by a PLC with control on a built-in touch screen which is equipped with application software.

Basic technical data

Length:	3,370 mm
Width:	1,375 mm
Height:	2,058 mm
Weight:	1,200 kg
Power supply:	3 NPE 400 / 230 V AC 50 Hz TN-S

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