

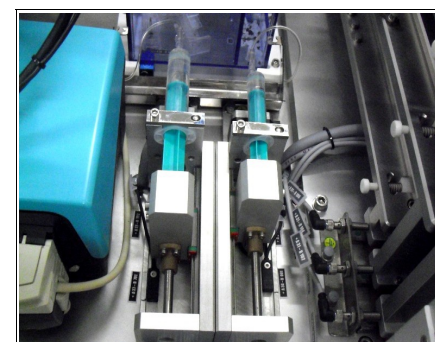
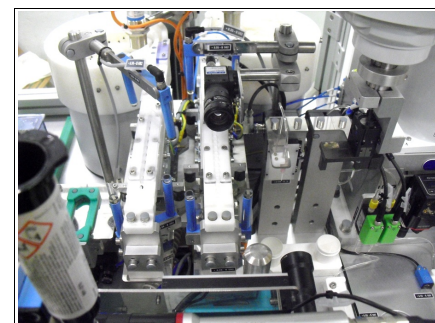
Description

The equipment is an automated and robotized workstation for product assembly for medical use. The product assembly consists of several mechanical components and a besides that, three kinds of functional liquids are gradually dosed into the assembly. The volume of the liquid fill is very small and requires precise dosage. The finished assembly is sealed by means of adhesive bonding with hardening of the glue by UV light.

Handling inside the machine is ensured by a pair of 4-axial Scara manipulators. Individual components as well as the course of application of the functional liquids are checked by four camera systems situated in the working area of the equipment.

Facts and interesting things:

- The equipment meets clean rooms standards of Class 8 as per ISO 14644-1.
- Its structure is formed by a frame welded from stainless-steel profiles with a soleplate made from an anodized AL alloy.
- The working area of the equipment is completely enclosed with transparent covers. All covers are blocked with security locks during operation of the machine.
- The material is placed manually into the machine on pallets through the input and output stations from the side of the machine. Smaller parts are replenished directly into the vibrating feeders in the machine.
- Two functional liquids with the smallest volume of dosage (5 and 10 microliters) are replenished into the machine in syringes, the other liquids in supplier packages. The dosed quantity is measured with micro flow meters.
- A manual scanner and a comparison with the online technological database are used to check the correct material.
- Every manufacturing lot is saved into the database together with its data identifying the input components as well as with the adjustment in the technological formula and with the results of tests in order to ensure traceability.
- The machine is managed by a PLC with a touch screen control and with application software.



Basic technical data

Length:	2,830 mm
Width:	1,350 mm
Height:	2,200 mm
Weight:	980 kg
Power supply:	3 NPE 400/230V AC 50 Hz TN-S