

Description

The equipment is a single-purpose robotized workstation which is used for automatic preparation of the material for the follow-up workstation in the manufacture of medicinal consumable goods.

The material is represented by spring wires with small hooks at the ends which are placed by the operator in larger numbers alternately into two slide-out positions which are located in parallel in the input station of the machine. The wires are mechanically separated from their bins at the slide-out position in such a way so that one piece is always ready in an elevated position to be taken by the robot.

The separated wire is subsequently gripped by the robot and carried into the bed in the elevator. The elevator transports the wire to the top level for output and will transload it on the platform of the output station. The output station ensures handover of the wire into the follow-up equipment by sliding the wire out through a guide rail.

Facts and interesting things:

- The equipment meets the requirements for use in clean rooms of class 8 as per ISO 14644-1.
- The load-bearing frame of the station is welded from stainless steel-made profiles.
- The station is equipped with an extension with covers made from clear polycarbonate.
- It is possible to open parts of the cover and they are secured with security locks with blocking in course of operation of the machine.
- Slide-out positions to load batches of material are two, one next to the other for alternate operation.
- The separation mechanism in the incoming bin is controlled by the Scara robot by means of the bottom side of the gripper.
- Vertical lift of the wire to the output position is ensured by a compact linear drive with a spindle and with a servomotor.
- The wire is removed from the output station through the guide rail and through a guiding pin, the wire gets moving by the thrust of the rotating actuator.
- The station is managed by a PLC with an operator interface with a touch screen of a diagonal equal to 7" including a software app.

Basic technical data:

Length: 1,690 mm
 Width: 950 mm
 Height: 2,130 mm
 Weight: 510 kg
 Power supply: 1 NPE 230V AC 50 Hz TN-S

