



Sorting and Feeding of Needle Protectors for Disposable Syringes



Feeding Systems

Reference no. 275



Functional description:

Industry

Pharmaceutical industry (manufacture of disposable syringes)

Components

Needle protectors with disposable syringe "K-Pack Needle Protector".

Performance requirements

Correctly oriented feeding with quick component changeover

Discharge position

Axis vertical, hanging by the collar, radially random

Functional description

The feeding system is filled via a vibrating hopper. The components are pre sorted in a vibratory bowl feeder and then transferred to a single track linear feeder. Between the sorting bowl discharge and linear accumulation track a mechanical transfer station checks that only needle protectors with an integrated disposable syringe are fed to the customer's automatic assembly machine. The mechanical interface is at end of the linear track, to which a timing wheel will be attached by the customer's.

Performance

380 parts per minute

Control

Frequency control boxes for vibratory bowl and linear feeders with an accumulation sensory mechanism and level monitor as well as a control unit for vibrating hoppers. All wiring suitable for Profibus control system.

Components of the feeding system

Vibrating hopper with a volume of 250 litres, vibratory bowl and linear feeder, special base plate with stand, and control cabinet for the entire system.

Design

Semi-pharmaceutical design. All components are made of 1.4301 materials, glass bead blasted; the surface of the special base plate is surface ground.



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