FEEDERS

FOR LIQUID DOSE PRODUCTS – GENTLE AND EFFICIENT.
SYPRO FEEDER

EFFICIENT, DEDICATED PLACEMENT OF SYRINGES

SyPro, short for “syringe product,” is an innovative, servo-regulated feeding system that safely and efficiently places glass and plastic syringes in the formed web. The system is suitable for all common syringe sizes with diameters from 6.5 to 26 mm. The products arrive at the feeder unit suspended in a single lane. Vibrating bars move them into a guide elbow that brings the syringes in a horizontal position before placing them on a continuous-motion prism conveyor. A four-axis robot arm with vacuum suction cups lifts the syringes from the conveyor and accurately places them in the formed web. In the case of clamp-packs, the press-in station gently pushes the syringes into the blister pack. The feeder handles up to 350 syringes per minute. An output increase to a maximum of 600 syringes for high-performance machines is achieved by extending the fill section and adding a second SyPro feeder. The addition of a second prism conveyor is a space-saving, cost-efficient alternative to increase the feeding capacity.

POINTS OF SIGNIFICANCE

• Cost-efficient, reliable feeding of glass or plastic syringes
• Output of up to 350 syringes per minute
• Fast, easy format changeovers involving few format parts
• Gentle handling protects labels
• Articulated robot arm with flexible vacuum suction cups
• Alternative without a robot for single-lane blister machines

Feedable pharmaceutical products

syringe
syringe with needlestick protection
LIPRO FEEDER

FLEXIBILITY AT HIGH SPEED FOR FRAGILE CONTAINERS

LiPro stands for "liquid product," which is a highly flexible, servo-regulated feeding system that treats fragile containers with utmost care while attaining a high output. The system handles ampoules, vials, cartridges, and bottles in all standard sizes at an output of up to 450 products per minute. Placed on a vibratory conveyor, the upright products are transported in micro-steps and evenly distributed at the pick-up position. A rake guides the products into lines, from which they are moved into the slots of the separating roller. This turns the containers in a horizontal position so that the four-axis robot arm with vacuum suction cups can pick up the products and place them in the blister pockets. In the case of clamp-packs, the press-in station gently pushes the products into the blister pack.

POINTS OF SIGNIFICANCE

- Articulated robot arm with flexible vacuum suction cups
- Few, easy-to-change format parts
- Gentle handling protects labels
- Automatic “run empty” function

Feedable pharmaceutical products

- cartridge
- vial
- ampoule
- pump spray
FEEDERS FOR LIQUID DOSE PRODUCTS

GENTLE UND EFFICIENT

The demands on a cost-efficient feeding system for fragile containers such as vials, cartridges, ampoules or syringes are exacting. Reliable systems with a consistent output are required. Uhlmann responds to these requirements with the LiPro feeder for vials, cartridges, and ampoules, as well as the SyPro feeder for syringes with safety needle or backstop systems. The LiPro and SyPro feeders integrate seamlessly into the machine environment and ensure gentle handling at high speed.

Both systems offer a variety of added benefits for an efficient packaging process from the start: GMP-compliant design, few, easy-to-change format parts, and maximum feeding flexibility for a variety of products. Other items such as needles, needle guards, pads, or files can also be fed into the blister packs. The ergonomic filling height and easy cleaning of both systems also speak in their favor.