FEEDERS
FOR SOLID DOSE PRODUCTS – PHARMACEUTICALLY COMPLIANT AND PRODUCTIVE.
SIMTAP FEEDER

FOR STANDARD PRODUCTS AND DIFFICULT PRODUCT SHAPES

The SimTap operates using the “simultaneous tablet placement” principle, which involves the simultaneous, dedicated placement of the products into the formed pockets. The products first move from the hopper into the vibratory chute. After dust and chip extraction, they then reach the sorting box. The vibration of this brings the products into the filling tubes. Two stop fingers ensure dedicated filling with just one product. Different versions of the SimTap feeder are available – for continuous or intermittent modes of operation, high-performance machines, or small-sized batches.

POINTS OF SIGNIFICANCE:

- High-performance feeder for a diverse range of products
- Optimum feeding output with an average fill rate of 99.5 percent
- Fast, straightforward format changeover, easy cleaning
- Full guarding for maximum operating safety

Feedable pharmaceutical products:

- tablet flat
- tablet bi-convex
- coated tablet
- sphere
caplet bi-convex
tablet oval bi-convex
tablet oval bi-convex
octagonal flat
special shape rectangular
rhombus bi-convex
special shape bi-convex
soft gelatin capsule oval
hard gelatin capsule
hard gelatin capsule
soft gelatin capsule oblong
VIBRATORY FEEDER

COST-EFFICIENT SYSTEM FOR PRODUCTS OF SIMPLE SHAPE

The vibratory feeder allows efficient feeding with a high fill rate and is ideal for all products of simple shape, such as tablets, spheres, caplets, or capsules. This feeder operates with a product surplus in the vibratory bowl and ensures an uninterrupted, trouble-free product flow. Two versions of the vibratory feeder for continuous-motion machines allow optimum selection to suit the products and blister machine: with a fixed chute for PVC forming material or with a filling roller for aluminum forming material.

POINTS OF SIGNIFICANCE:

- Versatile feeder for numerous product shapes and all thermoforming materials
- Low-cost format parts
- Fast changeover and cleaning of format parts
- Clear overview of the entire feeding process for operating personnel

Feedable pharmaceutical products:

- tablet flat
- tablet bi-convex
- sphere
- caplet bi-convex
- tablet oval bi-convex
- soft gelatin capsule oblong
- hard gelatin capsule
- hard gelatin capsule
BRUSH BOX FEEDER

STRAIGHTFORWARD FUNCTIONALITY FOR VERSATILE USE

The brush box feeder is particularly suitable for all products that can be swept easily into pockets, e.g., bi-convex products and capsules. As format parts are not dictated by the product shape, this feeder is a cost-efficient option for a wide range of applications on all blister machines. The products move from the hopper into the vibratory chute, where chips and dust are extracted. They then pass into the flood feeder, where rotating brushes and planetary stirrers sweep them into the pockets. The speed of the brushes and stirrers, as well as their distance from the web, can be adjusted individually to optimize the filling rate. The drive of the brush box feeder is separate from the web in compliance with GMP specifications.

POINTS OF SIGNIFICANCE:

• Cost-efficient feeder with random feeding using sweep technology
• Versatile application for numerous product shapes
• Plug-in brushes and stirrers, easy to clean and change
• Suitable for all thermoforming materials
• Low-cost format parts

Feedable pharmaceutical products:

- tablet flat
- tablet bi-convex
- coated tablet
- sphere
- caplet bi-convex
- tablet oval bi-convex
- tablet oval bi-convex
- octagonal flat
- special shape rectangular
- rhombus bi-convex
- special shape bi-convex
- soft gelatin capsule oblong
- soft gelatin capsule oval
- hard gelatin capsule
- hard gelatin capsule
- special shape bi-convex
FILL BOX FEEDER

IDEAL FOR MULTIPHASE BLISTERS

The compact fill box with individual product placement is particularly suitable for the feeding of coated tablets and spheres when producing multiphase or specially configured blisters, e.g., round-shaped blisters. The products move from the hopper into the vibratory chute, where dust and chips are extracted. Having reached the fill box, stirrers sweep the products into the holes of the upper supply slide plate. The lower slide plate retracts intermittently to allow one product at a time to be placed into the designated pocket. Separate fill boxes and masks are used for each product of a multiphase blister to ensure pharmaceutically compliant separation to avoid cross-contamination.

POINTS OF SIGNIFICANCE:

• Cost-efficient feeder with pharmaceutically compliant separation to avoid cross-contamination
• Simple, fast cleaning without the need for special tools
• Suitable for intermittent motion blister machines

Feedable pharmaceutical products:
- coated tablet
- coated tablet
- sphere
LINEAR FEEDER

IDEAL FOR PROBLEMATICAL PRODUCT SHAPES

Maximum machine uptime characterizes the linear feeder even when the requirements are complex: various complicated product shapes, noticeably differing tolerances, unconventional circular or star-shaped blister configurations, or products susceptible to shingling. The products move from the hopper into the vibratory chute, where dust and chips are extracted. Once in the supply chamber of the feeder, the vibratory movement separates a single layer of products onto the sorting plate. A rotary brush sweeps away surplus products. A vacuum plate with suction cups then takes the products from the sorting plate and places them into the formed pockets. Each product has its own suction cup.

POINTS OF SIGNIFICANCE:

• Very fast, tool-free changeover involving just two format parts
• Ideal for complex shapes and products with extremely differing thickness tolerances
• Flexible on account of an integrated control cabinet
• Three servo-regulated drives for individual, reproducible adjustments and automatic correction of the feeder position when processing forming materials with a high shrinkage rate

Feedable pharmaceutical products:

- tablet flat
- coated tablet
- sphere
- caplet bi-convex
- tablet oval bi-convex
- tablet oval bi-convex
- octagonal flat
- special shape
- rectangular
- rhombus bi-convex
- special shape bi-convex
- soft gelatin capsule oval
- special shape bi-convex
MANUAL FEEDER

FLEXIBLE FOR SMALL BATCHES

The manual feeder is the ideal choice when various products are to be packaged in small numbers, e.g., clinical trial packs. Products are taken from a manual filling tray and placed by hand into the formed pockets. Additional filling trays are used when various products are to be packaged. Safety flaps and an emergency stop function ensure a high standard of safety. In addition to fully manual placement, this feeder is available in a second version: a contact-free, sensor-controlled product feed automatically replenishes each tray.

POINTS OF SIGNIFICANCE:

- Feeder for small quantities and products of varying shape
- Safety functions for operator protection
- Version with sensor-controlled product replenishment

Feedable pharmaceutical products:

- Tablet flat
- Tablet bi-convex
- Coated tablet
- Sphere
- Caplet bi-convex
- Tablet oval bi-convex
- Tablet oval bi-convex
- Octagonal flat
- Special shape rectangular
- Rhombus bi-convex
- Special shape bi-convex
- Soft gelatin capsule oval
- Hard gelatin capsule
- Hard gelatin capsule
- Special shape bi-convex
- Soft gelatin capsule oblong
FEEDING SYSTEMS FOR SOLID DOSE PRODUCTS

PHARMACEUTICALLY COMPLIANT AND PRODUCTIVE

The diverse range of solid dose products, including particularly susceptible tablets, products of complex shape, caplets, or multiphase preparations, is served by an equally wide selection of efficient feeding systems. The options range from the manual feeder for small quantities to the high-performance SimTap feeder for a large variety of product shapes. All the systems perfectly match the needs of the products to be packaged and the performance profile of the blister machine – be it from Uhlmann or another manufacturer. Every feeder can be integrated seamlessly into the packaging process, and all of them boast GMP-compliant design, fast format changeovers, easy cleaning, and effective dust and chip extraction. Not only that, Uhlmann goes one step further and offers to optimize the product or blister pocket geometry together with the customer. The outcome is a noticeable improvement in the feeding performance and the filling rate, which denotes a perfect start to the packaging process.