

Powder Feeder

The Powder Feeder delivers conveying powders based on oscillation motion.

We welcome customized design requests to adjust for powder attributes and feeding specifications.

- **The Powder Feeder** is an oscillation motion feeder whose delivery can range from minutely small fixed quantity feeding to medium-size hopper delivery. The wide variety of powder characteristics generates many design issues. The Powder Feeder is ready for shipping as adjustments can be made according to customer requests to meet the powder attributes, such as: conveyance oscillation pattern, guide form, surface finishing, bridge protecting function and so on.



- **Mechanism**
Oscillation motion is generated by mechanical oval movement. It performs technically stable quantity feeding because it has fewer effects caused by resonance conditions that fluctuate when movement frequency or carrying material quantity change.
- **Low Oscillation Effect**
The Powder Feeder employs a mechanical constant cyclic drive. The primary oscillation effect is cut down by adoption of a balancer. Thus, it is possible to minimize any adverse effects over neighboring instruments.
- **Maintenance Free**
The Powder Feeder uses bearings for all sliding positions so it functions smoothly and has a long operating life. It works for prolonged periods without maintenance and the movement is hermetically-sealed which assures that the inner grease cannot be dispersed. The Powder Feeder applies the grease for the food machine; this eliminates concern for unexpected mechanical trouble, so it is possible to use the powder feeder for foods or medicines.

Powder Feeder Application Examples

Powder Measuring and Filling

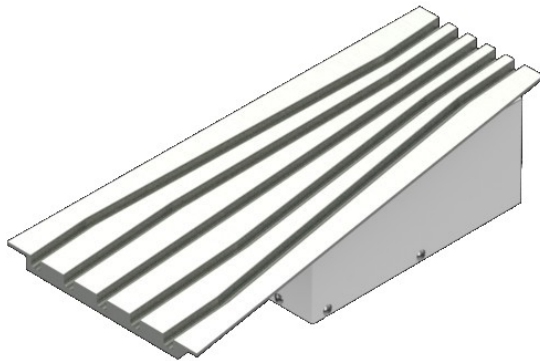
Quantity control is regulated by a feedback signal from scales and by a variety of sensors.

The Powder Feeder is very flexible in the quantity of powder feeding it can handle; ranging from minutely small to medium-size amounts.



Hopper to Machine Feeding

The Powder Feeder delivers the powder from a chamber into the machine, as required. The powder is fed in, via a carrying rail, through a narrow space inside the machine.

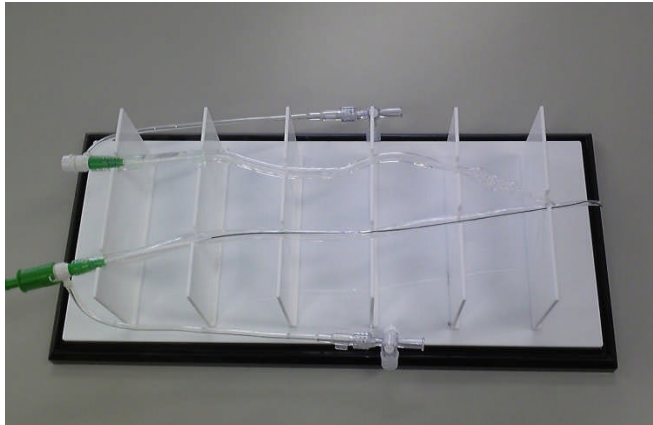


Oscillation Feeding

By extending the guide mechanics a longer feeding span is available.

The Powder Feeder delivery system is not limited only to powder; it can also be used for aligned item feeding such as tablets.

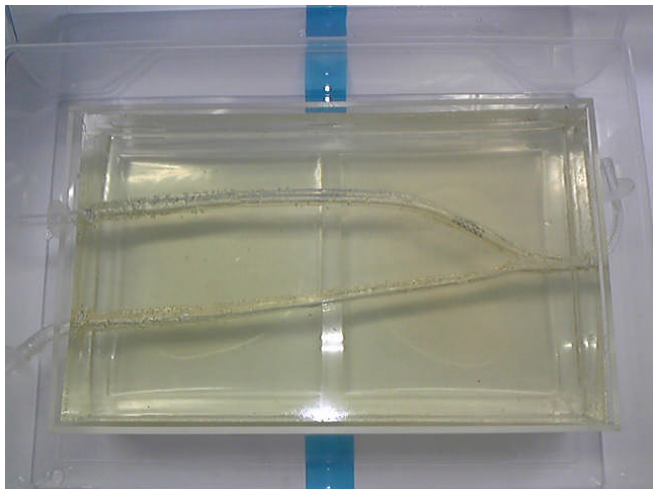
Silicon Visceral Vascular Model



Silicon Vascular Surgery Simulator

Feature

1. The degree of silicon hardness has a wide variety and is selectable.
2. The degree of silicon hardness on each position can be selected.
3. Joints give no cause for concern as the simulator is formed in one piece.
4. Any position can be available as for stenosis or aneurysm location.



One-piece Styrene Vascular Simulator:

Features

1. Can be diagnosed by echo.
2. Drug delivery testing applied for.

Product Delivery Record

Business: Toray Medical Co.,Ltd.

Research: Jikei University School of Medicine