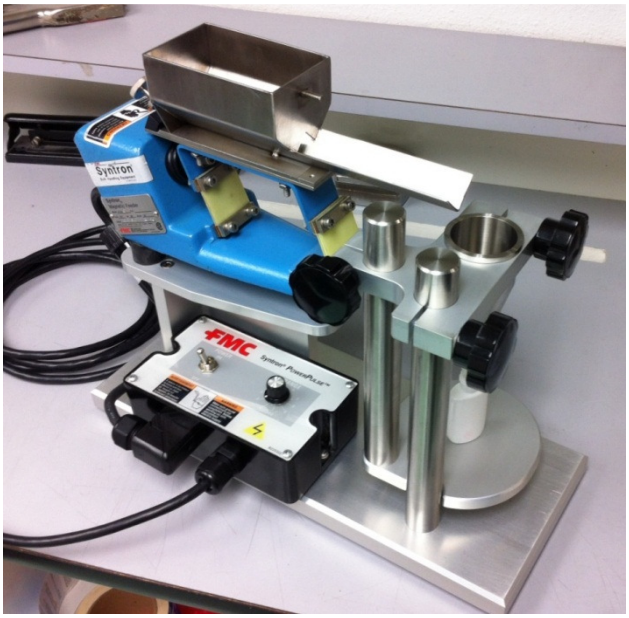
Instructions for Using Kinematics' Model 5389 Vibratory Feeder Assembly

The Kinematics' Model 5089 vibratory feeder assembly is a simple device designed and used in conjunction with Kinematics' powder fillers in order to help in flowing substantially sized powder doses into narrow necked containers.

(Please refer to the photo(s) below and KCC drawings 5389-SE-0020 & 5389-SE-0115 which are both supplied as part of this document package.)

The assembly comprises the following elements:



- ✓ (1) Vibratory Feeder assembly w/quick release stainless steel trough and set of five (5) aperture gates.
- ✓ (1) Sturdy, rigid frame.
- ✓ (1) Base mounted vibratory feeder speed-control unit with ON/OFF SWITCH and speed-control rheostat.
- ✓ (1) Stainless steel funnel assembly with customized container adaptor tip.
- ✓ (1) Height adjustable container platform assembly.
- ✓ (1) Funnel height adjustment arm.
- ✓ (3) Hand screws used to secure the funnel and for quick adjustment of the funnel assembly in relation to the feeder and the container platform assembly with relation to the funnel tip.

Using the Feeder Assembly.

Use of this vibratory feeder assembly requires very little instruction.

Briefly,

1. Adjust the height of the funnel, if necessary, to the desired distance just under the exit end of the "V"-shaped feeder trough.
2. Put the product receiving container on the container platform just under the funnel and adjust the platform height until the funnel tip adapter sits just inside the mouth of the container.
3. Select one of the five (5) aperture gates provided and secure it to the outside front wall of the feeder trough with the thumb screw. The use of the aperture gates is one means of controlling powder flow down the trough. The other is by controlling the speed of the vibrator itself.
4. Turn the pot on the speed control box all the way down and plug the unit into a suitable electrical outlet. Then adjust the pot to achieve a moderate rate of speed on the vibrator.
5. Drop a powder charge into the chamber at the back end of the trough assembly. Adjust the speed and/or change the aperture gate to achieve the desired flow effect.
6. That's it.

Cleaning.

The feeder assembly is equipped with a "quick-release" trough for easy cleaning. Simply loosen the smaller lock nut at the rear of the trough. Then loosen the larger thumb screw. The entire trough will slide out sideways. Reverse the process for reassembly.

Caveats.

All screws and nuts in this device which are meant to be permanent have been treated with "Loctite" thread locking compound to prevent their loosening. Some have both an application of "Loctite" and a split lock washer. The thumb screws and nuts on the trough that are meant to be removed for interchanging gates or for cleaning have only lock washers.

Needless to say, vibration always causes the loosening of screw threads. Therefore, It is incumbent upon the user to regularly check and maintain the integrity of all threaded fasteners.

Good Luck with your new production device.