

Metering Unit for Injection Molding

Screw-type volumetric feeder designed for metering color concentrate, regrind and other additives.

Comet's SMD-1100 Metering Unit is a screw-type volumetric feeder for precise at-the-throat metering of color concentrate and regrind plastic material. It was developed especially for injection molding machines, but can also be used with extruder machines by simply flipping a switch on the printed circuit board.

Both the auger and sleeve are constructed of stainless steel, crucial to providing a long production life. These state-of-the-art feeders use the latest electronics available today and come standard with a step-motor (the metering screw adjusts automatically at revolutions of 1/100, 115 volt, 60 cycles). Also, the metering screws and metering sleeves can be easily changed. The auger units can be easily mounted and fastened to the casting using two (2) quick disconnect clips.

The electrical control includes a digital readout and setting for the metering screw. The injection molding machine sends a signal to the SMD-1100 on the start of screw recovery. The SMD-1100 then accurately meters the additive directly into the feed-throat during this time. The number of revolutions and the revolutions per minute are set to match the screw recovery time. The screw range can be set from 1-99 revolutions per minute.

The SMD-1100 consist of three main parts: the transition piece, metering housing with stainless steel material hopper, and control. The top and bottom ranges of the transition piece are not drilled, allowing you to match the bolt hole pattern to the feed throat of the molding or extrusion machine. The unit should be installed at a 90° angle to the direction of the heat cylinder to prevent damage from heat emissions.



SMD Control Box

The SMD control box informs the operator about the current conditions of the metering unit. It also sets the unit to the desired metering quantity.

Screw & Sleeve Design Features

- Constructed of stainless steel, ensuring a long production life.
- Easy to change screw and sleeve.
- Change color in less than one minute using two quick disconnect clips.
- Sizes: see specifications on back for screw and sleeve sizes.

Options

- Custom screws and sleeves can be manufactured upon request.
- Material testing upon request.



Transition Piece

Available with an integral hopper.



The transition piece can be equipped with quick connection adapter plates. They adjust to a single unit making it possible to combine the various models onto one transition piece.



Screw/Sleeve Sets

Most metering applications are easily solved with the large variety of metering screw/sleeve sets. Accurate metering is obtained by selecting the correct screw/sleeve combination. The metering screws with magnetic couplings (#1 & 2) can be completely removed without tools.

Specifications

SMD-1100						
Screws/Sleeves	5/6	6/13	9/16	12/19	15/22	18/25
Grams / Hr.	0-175	0-1500	0-6000	0-13200	0-23400	0-33000
Pounds / Hr.	.39	3	13	29	51	72

We reserve the right to change dimensions, technical data and specifications without prior notice.

