

A screw metering unit designed for precise metering of non-free-flowing powders and color pigments directly into the production machine feed throat.

Comet's PF-1200 comes in two versions: The SMD has a step motor for injection machines and the DCD has a DC drive motor for extrusion machines. The DCD version can be connected to the tachometer of the extruder (0-10V) to obtain synchronous operation between the machine and the metering unit.

The PF-1200 is equipped with a cylindrical shaped stainless steel material hopper, which houses an agitator. The material hopper, agitator and metering screw are integrated into one complete package. Cleaning and making color changes is very easy, with the added bonus of being able to fill the material hopper outside of the production area. The agitator of the metering unit is changeable to enable metering of color concentrate and other coarse grained materials.

This unit uses a special screw designed with an open spiral and fixed internal core, which results in a highly accurate feed.

The PF-1200 for injection molding machines has been designed and built utilizing the latest innovations in electronics. It is furnished with a step motor having an incremental accuracy of 1/100 of a revolution. The electrical control includes a digital readout and setting for the metering screw. The injection molding machine sends a signal to the PF-1200 on the start



PF-1200 with control and transition piece and has a maximum capacity of 50 lbs./hr.

of screw recovery. Then the PF-1200 accurately meters the additive directly into the feed throat. 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. Power requirements are 115V, 60 cycles.

The modularly constructed transition piece enables several types of metering units to be mounted at once. For example, two SMD-1100s can be mounted for color concentrate and regrind coupled with a PF-1200 for a powder additive.

The PF-1200 transition piece also has a built in covering shield or *quick change* feature. This ensures safe mixing of the metered material and also prevents material from falling out when dismantling the hopper.

Maximum capacities with standard metering combinations and standard reduction (1:2.5 for maximum 40 RPM) through continuous operation, gram per hour (g/h). These are guidelines only.

Core	.7" (18mm)	1512	1728	2160	2376	2592	3024	3240	3672	3888	4320	4536	g/h
Core	.6" (15mm)	2160	2592	3024	3456	3888	4320	4752	5184	5616	6048	6480	g/h
Core	.47" (12mm)	2808	3456	4104	4536	5184	5832	6264	6912	7560	8208	8640	g/h
Core	.375" (10mm)	3024	3672	4320	4752	5400	6048	6696	7344	7992	8640	9072	g/h
	Bulk Density	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	



Transition Piece

Material Hopper with Metering Combination

Motor Section

Control

The transition piece is available with an integral hopper.

By adjusting the quick disconnect adapter plates, you can mount any type and size of metering unit to the PF transition piece. You can combine one or more units for metering color concentrate with one or more powder metering units.



The standard metering combination of the PF-1200 is a quadrangular spiral with a diameter of 10" (24.8mm) with an inside core of .47" (12mm).

Alternative – .375" (10mm), .6" [15mm], .7" (18mm).

