

An **“Economical”** screw metering unit that accurately meters color concentrate, regrind and additives directly into the molding machine or extrusion feed throat.

Comet’s SCM-E series “Econo” volumetric feeders are a simple, economical feeding solution suitable for auto-proportional mixing of regrind, color concentrate, and additives. The SCM-E series can be used with both extruders and injection molding machines. There are six models to choose from. Metering screws range from 12, 14, or 16mm in diameter with outputs ranging from 0.1~32 kg/hr.

The microprocessor control, with digital display, accurately controls the rotation of a highly precise metering screw to dose materials with an accuracy of $\pm 1\%$. It automatically detects and compensates for changing cycle times, varying torque requirements, and/or fluctuations in plant voltage, thus eliminating the need for monitoring and adjustment.

A gear motor with a ratio of 38:1 or 75:1 is coupled to the metering screw. Double color feeders can be assembled from two single color feeders, if required.

Standard Features

- Brushless DC motor is maintenance free.
- Data memorizer and storage settings.
- Microprocessor control is simple to operate and both user-friendly and accurate.
- External signals can be directly interfaced with the control box.
- Metering screws are chrome-plated for durability.
- Modular design for easy cleaning, disassembly and interchangeability.
- Three-tube hopper magnet is equipped at the base of a single color feeder to absorb metal impurities thus preventing damage to the screw molding machine.
- A blender is standard for double-color feeders to mix the material evenly (*optional for single color feeders*).
- Main material hopper is a standard accessory for double color feeders (*optional for single color feeders*).



SCM-E Single Color Feeder with Magnet

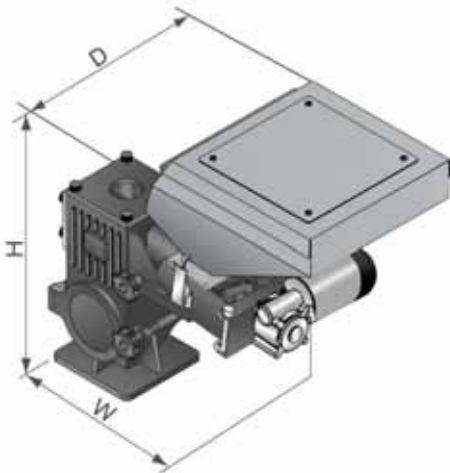
For Injection Molding:

The SCM-E accurately meters the color or additive directly into the feed throat of the molding machine. The screw speed range can be set from 0~3,000 RPM offering a much higher consistency than traditional DC powered feeders.

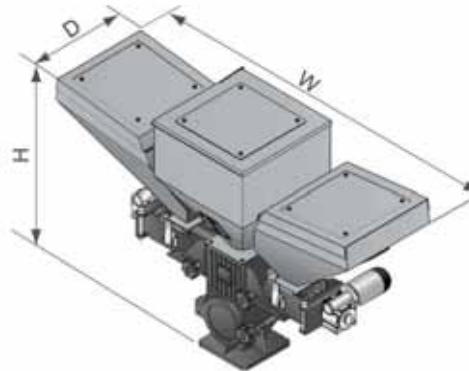
For Extrusion Molding:

The SCM-E connects to the tachometer of the extruder ensuring that the motor speed is precisely held. Throughput is matched by changing speeds which are processed automatically delivering reliable, continuous results.

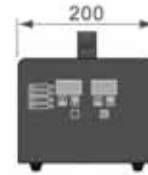
Outline Drawings



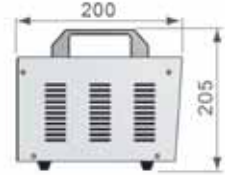
Single Color Feeder



Double Color Feeder



Control Box
(Front)



Control Box
(Side)



Main Material
Hopper

Specifications

Model	Single Color Feeder						Double Color Feeder		
	SCM-E-38-16	SCM-E-38-14	SCM-E-38-12	SCM-E-75-16	SCM-E-75-14	SCM-E-75-12	SCM-E-D-38 / 38	SCM-E-D-38 / 75	SCM-E-D-75 / 75
Motor Power (W) (50/60Hz)	0.06	0.06	0.06	0.06	0.06	0.06	0.06 × 2	0.06 × 2	0.06 × 2
Motor Speed (RPM)	0~3000	0~3000	0~3000	0~3000	0~3000	0~3000	0~3000	0~3000	0~3000
Mixer Output Power (50/60Hz)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
External Screw Dia. (mm)	16	14	12	16	14	12	**	**	**
Output Capacity (kg/hr)	1.1~32	0.6~20	0.3~10	0.5~15	0.2~8	0.1~4	*	*	*
Storage Bin (L)	10	10	10	10	10	10	10	10	10
Gear Ratio	38:1	38:1	38:1	75:1	75:1	75:1	38:1 / 38:1	38:1 / 75:1	75:1 / 75:1
Main Material Hopper	Optional	Optional	Optional	Optional	Optional	Optional	Standard	Standard	Standard
Mixer	Optional	Optional	Optional	Optional	Optional	Optional	Standard	Standard	Standard
Floor Stands	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Dimensions									
H (mm)	520	520	520	520	520	520	615	615	615
W (mm)	610	610	610	610	610	610	1045	1045	1045
D (mm)	335	335	335	335	335	335	335	335	335
Weight (kg)	29	29	29	29	29	29	50	50	50

Note: * Output capacity depends on model selected, data from the Single Color Feeder can be a reference.
(example: SCM-E-D-38-16 / 38-14, output capacity 1.7 ~ 52 kg/hr.)

We reserve the right to change specifications without prior notice.

** External diameter of screw depends on model selected.

All output capacities from above models are based on data from a density of 1.2, dia. 2~3 mm color concentrate in a test criteria of continuous running.
Main power for Single Color Feeder is 1φ, 115/230V, 50/60Hz, but it will be 3φ, 230 / 400 / 460 / 575V, 50/60Hz when equipped with mixer.

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