



"Budget" Series Shini Volumetric Doser

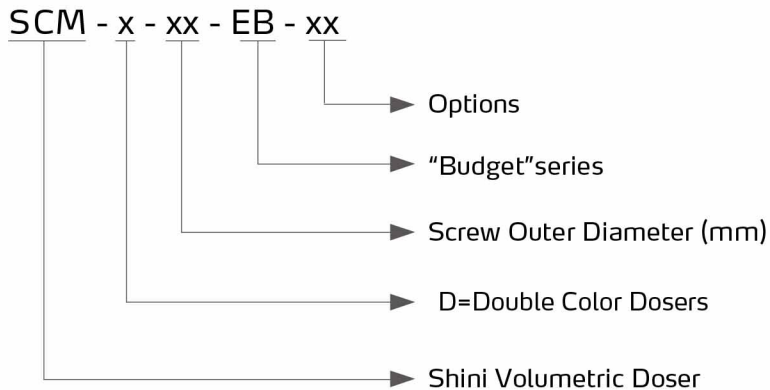
SCM-EB



Refer carefully to this manual before operation.

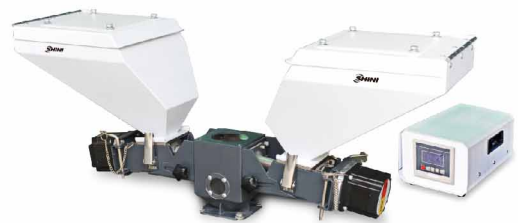
SCM-EB Series

■ Coding Principle



■ Features

- Dosing screws are chrome plated for durability.
- Use brushless DC motor and free from maintenance.
- Unit is comprised of standard modules for easy of cleaning, disassembly and interchangeability
- It also can meet the requirement of external signal input
- The current mode can be recorded without interrupted by power failure
- Compulsory material cleaning makes it easier to replace masterbatch
- Applicable to injection and extrusion molding
- Rotating speed can be automatically adjusted according to extruder processing speed , which maintains the fixed proportion of masterbatch
- 50 recipes are available for permanent recording of material discharging time and finished products weight (for extruder, it is max. throughput per minute).
- Both masterbatch blockage and overload can be detected, and then machine will halt and sound an alarm.
- Micro-metering mode is available, and mode cycle can be set to add additives periodically
- Equipped with the RS485 communication port



SCM-D-EB

Options

- When collocating with SHD-100-300 or SHD-160U-450U dryers, heavy base should be selected, and add "HB" at the end of the model code.
- Blender is an option for customers to make materials evenly mixed, and add "MS" at the end of the model code.
- Main material hopper is optional equipment for customers to feed main material, and add "MH" at the end of the model code.
- Low level sensor can be opted to give an alarm when masterbatch is insufficient, and add "LS" at the end of the model code.
- Optional 100kg base to satisfy maximum discharge volume (without mixing function), and add "LB" at the end of the model code.



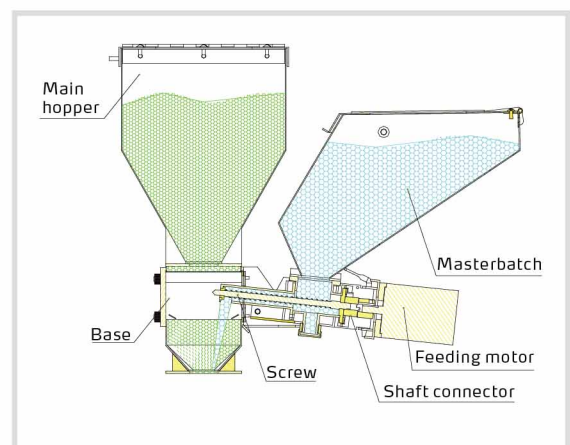
Optional blender

Application

SCM-EB series volumetric dosers are suitable for auto-proportional mixing of virgin materials, regrinds, master batch or additives. A gear motor with gear ratio of 38:1 is coupled to a dosing screw of 12, 16, 20 or 30mm in diameter to give a total of four models with output ranging from 0.1~110kg/hr. Double-color doser is available for collocating with any two of single color dosers if required. Five components automatic mixing can be realized if customers adopt four-color dosers. SCM-EB supports the extruder mode. When working with the extruder, SCM-EB only requires simple circuit adjustment that can achieve the linkage between the masterbatch metering and the rotating speed of extruder screw, so as to maintain stable additives proportion. Due to small additives proportion and dosage, SCM-EB can work with the Venturi Loader VL to realize auto feeding of the masterbatch.

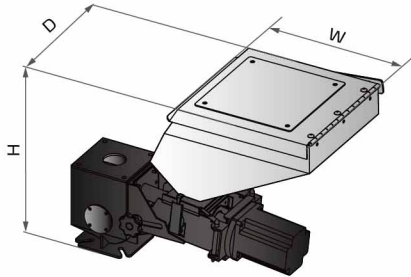
Working Principle

Signals from control cabinet are sent to motor, and then motor begins to work. The rotary force is transferred to the dosing screw through shaft connector. Color additives in hopper fall into the groove of conveying screw, then are taken to hopper base by rotating action of the screw.

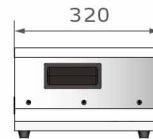
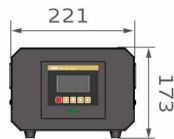
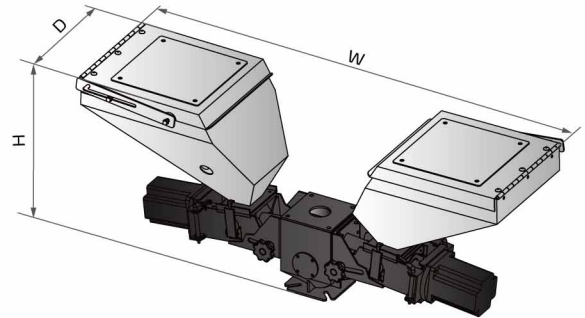


SCM-EB Series

Outline Drawings



Single Color Doser



Control Box

Specifications

Model		Single Color Doser				Double-color Doser
		SCM-12-EB	SCM-16-EB	SCM-20-EB	SCM-30-EB	SCM-D-EB
Motor Power (kW, 50/60Hz)		0.06	0.06	0.06	0.06	0.06 × 2
Output Power of Mixer (kW, 50/60Hz)		0.25	0.25	0.25	0.25	0.25
Screw External Dia. (mm)		12	16	20	30	**
Output Capacity (kg/hr)		0.1~10	0.5~30	3~60	8~110	*
Storage Hopper (L)	Standard	10	10	10	10	10
	Option heavy-duty base	15	15	15	15	15
Main Material Hopper(L)		○(15)	○(15)	○(15)	○(15)	○(15)
Mixer		○	○	○	○	○
Heavy-duty Base		○	○	○	○	○
Dimensions	H(mm)	420	420	420	420	420
	W(mm)	585	585	585	585	1030
	D(mm)	300	300	300	300	300
Weight		18	18	18	18	30

- Notes: 1) "*" stands for the output capacity depends on model selected, data of the single color doser can be a reference. For example: SCM-D-12 / 16, output capacity 0.6~40kg/hr(1.3~88lb/hr).
 2) "***" stands for external dia. of screw is up to model selected.
 3) The output capacity is obtained by continuous testing under the conditions of masterbatch in material bulk density of 1.2 kg/L, and diameter of 2-3 mm.
 4) "●" stands for standard, "○" stands for options, "-" stands for none.
 5) Power supply: 1Φ, 115/230V, 50/60Hz.