

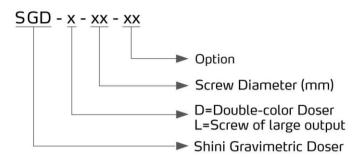
Gravimetric Doser

SGD-12



SGD Series

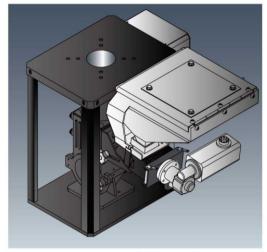
■ Coding Principle



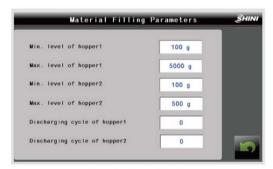
Features

Standard configuration

- Dosing screws are chrome plated for durability.
- Unit is comprised of standard modules for ease of cleaning, disassembly and interchangeability.
- Three-tube hopper magnet is equipped at the base to absorb metal impurities so to prevent screw of molding machine from damage.
- The current operation mode can be recorded, unaffected by power failure so operation would be returned to normal when power is on.
- Set the manually discharging valve for easy replacement of master batch.
- SGD is able to automatically monitor the addition of masterbatch and additives.
- Ethernet communication is available to transmit data, record and store the dosage of regrinds and masterbatch for future use.
- The function of aberration compensation is able to adjust the proportion of masterbatch or additives based on regrinds amount.
- Manipulate dosing process via loss-in-weight technology, satisfying the high requirement of production precision.
- Up to 100 groups of recipes can be saved.
- Suitable for extrusion or injection molding modes.
- It is able to detect the blockage and overload of masterbatch and stop machine and sound alarms accordingly.
- Machine halts and sounds alarm when motor faults.



Heavy Base (Optional)



Caculation Mode



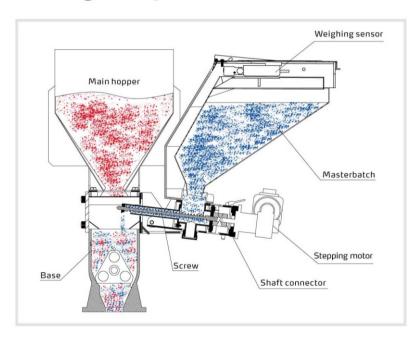
Recipe Edit Menu



Accessory option

- Venturi Loaders are optional.
- For collocating with SHD-100~200 or SHD-160U~300U dryers, heavy base should be selected.
- Blender is an option for customers to make materials evenly mixed.
- Main material hopper is optional equipment for customers to feed main material.
- Screws with diameter of 30mm/1.18inch can meet customers' requirements of large output.

Working Principle



Signals from control cabinet are sent to motor, then motor begins to work, the rotary force is transferred to dosing screw through shaft connector.

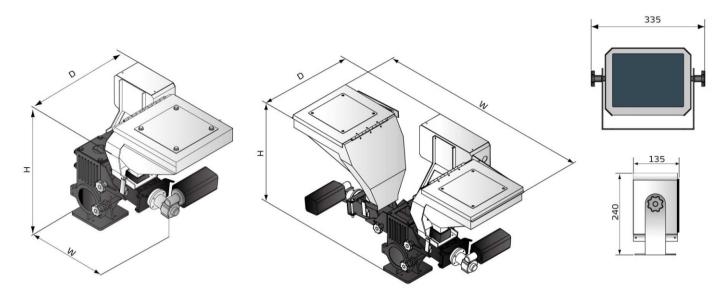
Masterbatch in hopper falls into the groove of conveying screw, and then be taken to hopper base by rotating action of the screw. Weighing sensor is adopted to precisely control masterbatch output to fulfill proportional adding.

■ Application

SGD series dosers are suitable for auto-proportional mixing of virgin material, regrinds, masterbatch or additives. The motor with gear ratio of 38:1 is coupled to a dosing screw of 12,16,20 or 30mm/ (0.47, 0.63,0.79 or 1.18inch) in diameter to give a total of four models with the output ranging from 0.04~60kg/hr(0.09~132lb/hr). Double color dosers can be assembled from two single color dosers according to customers' requirements.

SGD Series

Outline Drawings



Specifications

Model			Single Color Unit				Double Color Unit
				SGD-16	SGD-20		SGD-D
Motor Power (kW,50/60Hz)			0.06				0.06×2
Output Power of Mixer (kW, 50 / 60Hz)			0.09				
Screw External Dia.		mm	12	16	20	30	**
		inch	0.47	0.63	0.79	1.18	* *
Output Capacity		kg/hr	0.04~3.6	0.1~16	1.0~30	3.0~60	*
		lb/hr	0.09~7.9	0.22~35.3	2.2~66	6.6~132	*
Storage Hopper		L	10				
		gal	2.64				
Gear Ratio			38:1				
Main Material Hopper		L	Optional (15)				
		gal	Optional (4.0)				
Mixer			Optional				
Heavy-duty Base			Optional				
	Н	mm	610				
SI		inch	24				
Dimensions	W	mm	645 1090				
		inch	25.4				42.9
į.	D	mm	441				490
		inch	17.4				19.3
Weight		kg	36				54
		Ib	79				119

Notes: 1) "*" stands for the output capacity depends on model selected, data of the single color doser can be a reference. For example: SGD-D-12/16, output: capacity 0.1~19.6kg/hr(0.22~43.2lb/hr).

We reserve the right to change specifications without prior notice.

- 2) "**" stands for external dia. of screw is up to model selected.
- 3) For additionally mount mixer on single color doser, add "MS" at the end of the model code.
- 4) When selecting screws with diameter of 30mm/1.2inch, the machine model should be followed by "L" to distinguish it from other three kinds of interchangeable screws.
- 5) All output capacities from above models are based on data from bulk density 1.2kg/L(10lb/gal), dia. 2~3mm/0.08~0.12inch masterbatch in a test criteria of continuous running.
- 6) Power supply: 1Φ, 115/230V, 50/60Hz.

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