



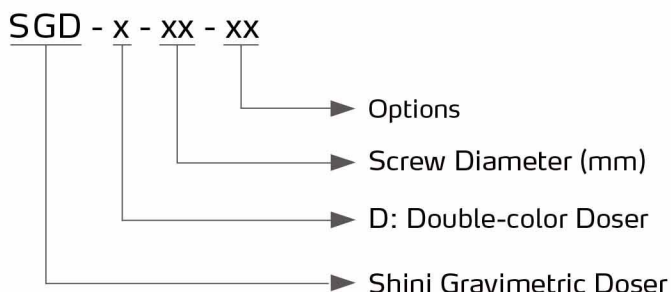
## Gravimetric Doser

SGD-12



Refer carefully to this manual before operation.

## ■ Coding Principle

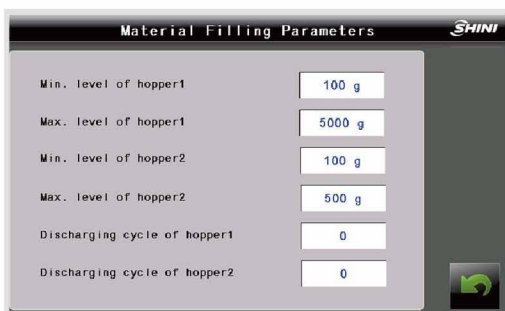


## ■ Features

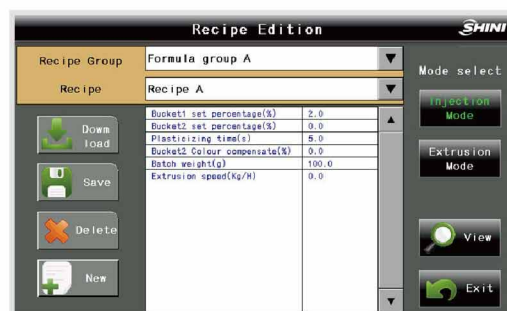
- Chrome coating dosing screw for long durability.
- Modular design for easy color change and maintenance.
- Standard neckpiece with hopper magnets for better processing machine protection.
- Uninterrupted production recovery in case of power failure.
- Loss-it-weight dosing control for better dosing precision.
- Modbus TCP data communication via ethernet.
- Masterbatch blockage alarm via motor overload.



Heavy Base (Optional)



Parameter Setting Mode

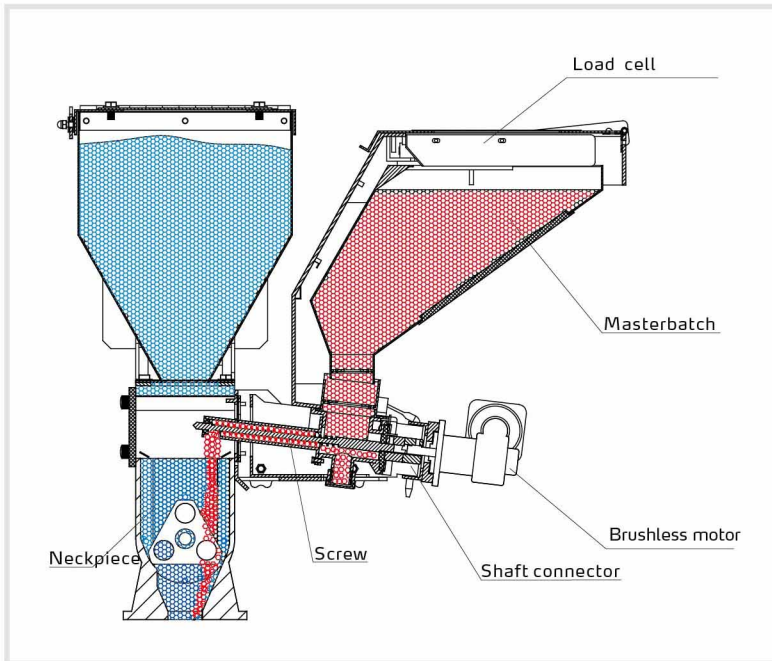


Recipe Edit Menu

## ■ Options

- Heavy base option for mounting large drying hopper of SHD-100~300 or SHD-160U~450U, Add "HB" at the end of the model code.
- Optional mixer at neckpiece. Add "MS" at the end of the model code.
- Optional main material hopper. Add "MH" at the end of the model code.

## ■ Working Principle



3D animation  
(Tencent)



3D animation  
(Youtube)

## ■ Application

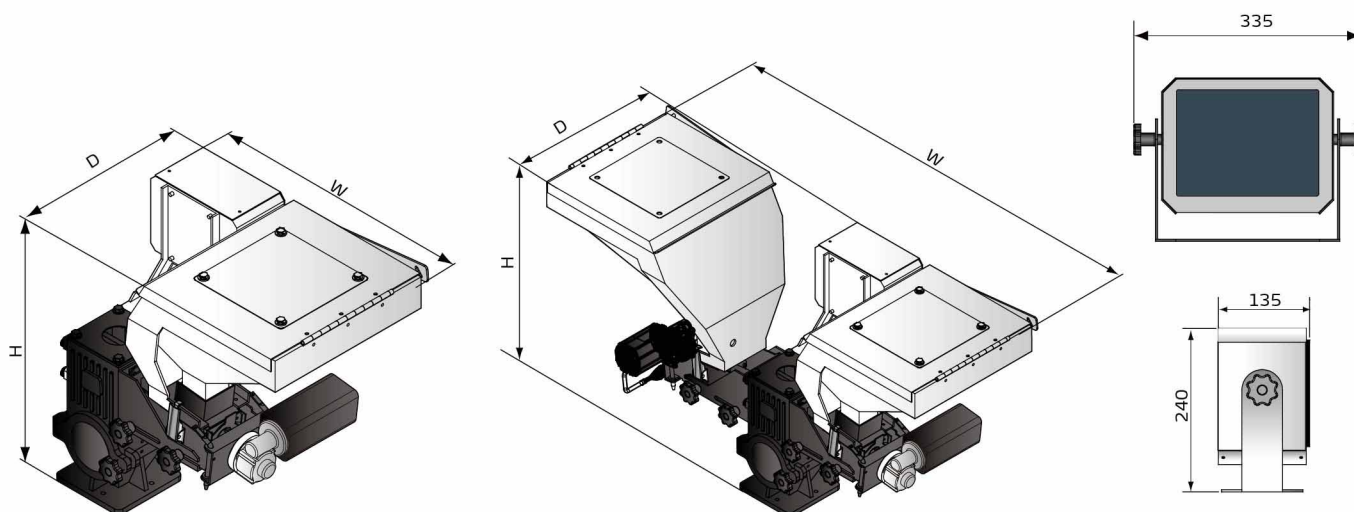
SGD gravimetric doser is suitable for continuous precision dosing of masterbatch to the plastic process machine. The unit has a selection of four dosing screw sizes for different throughput needs. The unit can support up to two sets of dosing screws for various material receipt. The lose-it-weight technology allows doser to measure and correct dosing to realize constant dosing precision.

SGD synchronizes dosing speed in extruder mode via analog 0~10V input from the extruder.

Combination of Shini VL venturi loader realizes auto conveying of material to SGD at all time.

# SGD Series

## Outline Drawings



## Specifications

Model			Single Color Unit				Double Color Unit
			SGD-12	SGD-16	SGD-20	SGD-30	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	○(12)					
	gal	○(4.0)					
Mixer			○				
Heavy-duty Base			○				
Dimensions	H	mm	610				
		inch	24				
	W	mm	645				1090
		inch	25.4				42.9
	D	mm	470				
		inch	18.5				
Weight	kg	36				54	
	lb	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 0.14~19.6kg/hr(0.3~43.2lb/hr).

2) "\*\*\*" stands for external dia. of screw is up to model selected.

3) "●" stands for standard, "○" stands for options, "-" stands for none.

4) The output capacity is obtained from continues throughput of masterbatch with a bulk density of 1.2kg/L and diameter of 2~3mm.

5) Power supply: 1Φ, 115/230V, 50/60Hz.

We reserve the right to change specifications without prior notice.

## Shini Group

Addr: No. 23, Minhe St., Shulin Dist.,  
New Taipei, Taiwan

Tel: +886 2 2680 9119

Fax: +886 2 2680 9229

Email: [shini@shini.com](mailto:shini@shini.com)

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