

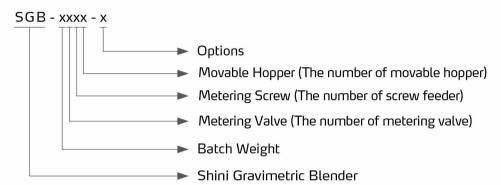
Gravimetric Blender

SGB-3400



SGB Series

Coding Principle



For example, model SGB-3410, indicating the batch size is 3kg., four sets of the standard vertical metering valves, one set of metering screws, zero movable hoppers, and the total is five components.

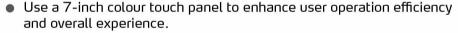


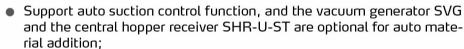
Vertical Metering Valve

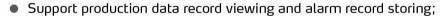
Metering Screw

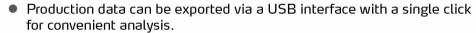
Features

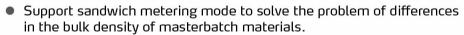
- An optional movable hopper with a quick-release air connector is available for the SGB-1/3 series, making it easier to change masterbatches and perform cleaning and maintenance.
- The quick-detachable mixing tank and blade make it easy to disassemble and clean.



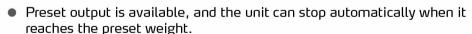


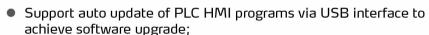


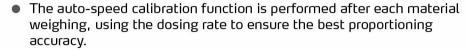






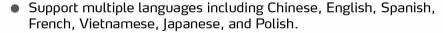








 The Ethernet communication function enables centralised connection and monitoring with the main process machine.





Movable Hopper



Quick detachable Air Connection

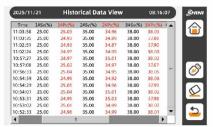


Quick Detachable Structure









Home Page

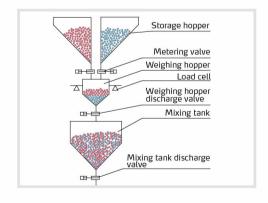
Production Status

History Record Inquiry

Options

- Material hopper low-level sensors can provide an early alarm when materials are low. Add "LS" at the end of the model code.
- A special metering valve, including a bridge-breaking device. It is for flake or irregular material
 while the diameter is less than 12*12*12mm/0.47*0.47*0.47 inch. Add "FF" at the end of the
 model code.
- The micro-pulse metering valve (suitable for SGB-1 series model) is optional, which is suitable for receipt ratio from 0.5% and 1%, and add "MF" at the end of the model code.
- The bridge breaking device is optional, and add "MB" at the end of the model code.
- For high-temperature materials processing above 80°C and below 120°C, add "H" at the end of the model code.
- SGB series with floor stand. Add "GS" at the end of the model code.

Working Principle





3D animation (Tencent)

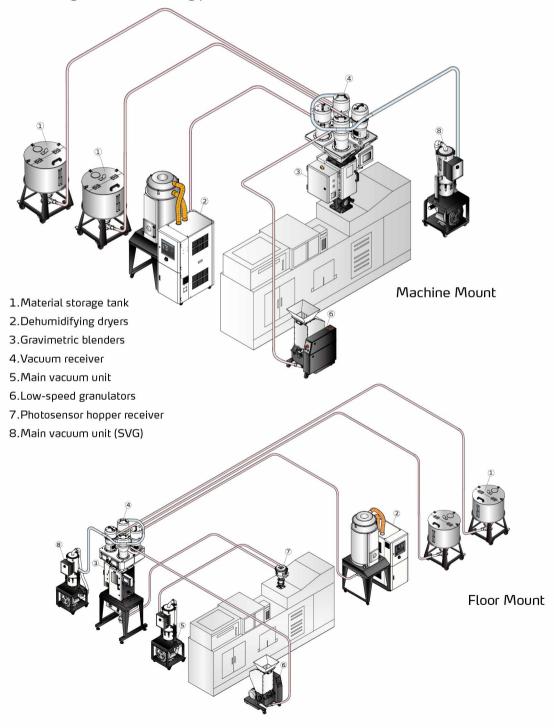


3D animation (Youtube)

SGB Series

Application

The SGB Gravimetric Blender is equipped with a PLC controller, making it ideal for applications that require precise mixing of multiple materials based on weight proportions. It is suitable for processes like injection, extrusion, or hollow moulding. The blender can be installed in two ways: as a floor stand or a direct mount. The floor stand version is designed for a flat ground foundation and is typically used in conjunction with a material storage tank or suction box. In contrast, the direct-mount version can be installed directly at the injection moulding machine's feeding port.



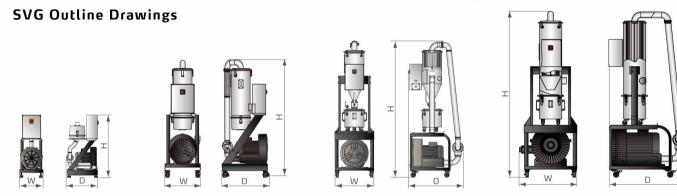


SVG-20HP(-D)-N

Accessories

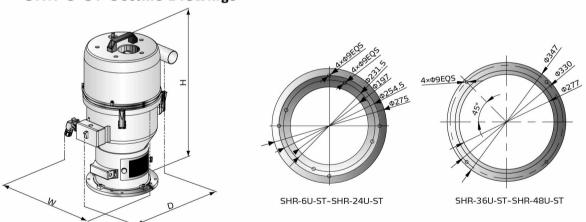
SVG&SHR-U-ST

SVG can work with SGB and SHR-U-ST vacuum hopper directly to convey materials into the storage hopper of the SGB. The controller of SVG is integrated into the SGB, so it can control all the functions of SVG through the touch panel to make it more useful. The T-shape design of SHR-U-ST 's suction pipe that worked with the SVG makes it easy to connect the vacuum hoppers, which only needs one suction pipe that can connect the SVG and the vacuum hoppers as to give well organized pipe layout.



SVG-10HP(-D)-N

SHR-U-ST Outline Drawings



SVG-5HP(-D)-N

Specifications

SVG-3HP-N

Model	SVG	Power (kW)	SHR-U-ST	Capacity (L)	Material pipe (inch)	Vacuum pipe (inch)	SVG(H×W×D)	SHR(H×W×D)	SVG Weight(kg)	SHR Weight(kg)
SGB-1series	3HP-N	1.85	SHR-6U-ST	6	1.5	2	933×350×450	560×290×400	60	8
SGB-3 series	5HP-N	3.75	SHR-12U-ST	12	1.5	2	1359×426×593	825×305×455	74	11
	5HP-D-N	3.75	SHR-12U-ST	12	1.5	2	1359×426×593	825×305×455	76	11
SGB-10 series	10HP-N	7.5	SHR-36U-ST	36	2	2.5	2031×580×818	1094×349×510	185	16
	10HP-D-N	7.5	SHR-36U-ST	36	2	2.5	2031×580×818	1094×349×510	192	16
SGB-20 series	20HP-D-N	11	SHR-48U-ST	48	2.5	3	2200×745×1000	1242×349×1000	246	18

Note: 1) SVG Power: 3 Φ, 400VAC, 50Hz

2) SHR Power: AC24V

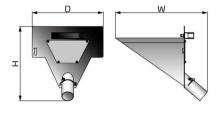
SGB Series

Discharging hopper SGB-DH

The discharging hopper can be directly mounted on the SGB for easy cleaning during material replacement.

Outline Drawings

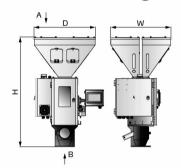




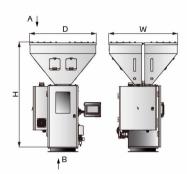
Specifications

Model	SGB-DH	W×D×H			
SGB-3 series	SGB-DH-3	310×405×325			
SGB-10 series	SGB-DH-10	410×495×415			
SGB-20 series	SGB-DH-20	570×515×445			

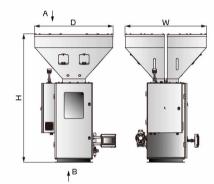
Outline Drawings



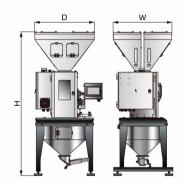
SGB-1XXX/3XXX(standard mode)



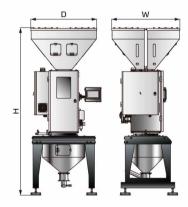
SGB-10XXX (standard mode)



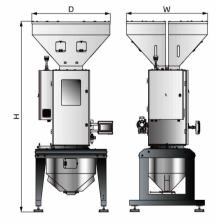
SGB-20XXX (standard mode)



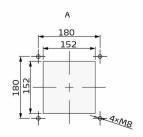
SGB-3XXX-GS (floor stand mount)



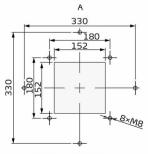
SGB-10XXX-GS (floor stand mount)



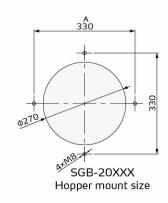
SGB-20XXX-GS (floor stand mount)



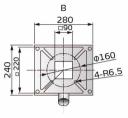
SGB-1XXX/3XXX Series Hopper mount size

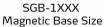


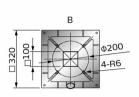
SGB-10XXX Series Hopper mount size



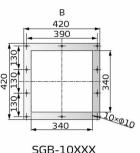




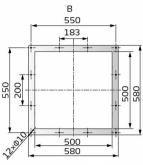




SGB-3XXX Magnetic Base Size



SGB-10XXX Magnetic Base Size



SGB-20XXX Magnetic Base Size

Specifications

Series	Series Model		Compo- nents	Ash	Max. Batch	Mixing Motor	Dimension(W×D×H)		Weight		
		weight (kg)	Helits	valve	Scr	ğΪ	(kg/hr)	Power(kW)	Standard type	Foot frame type	(kg)
1 Series	SGB-1202	1	4	2	-	2	- 80	0.25	620×540×1100	620×540×1620	105/130
	SGB-1400		4	4	-	-			750×600×1100	750×600×1620	115/145
3 Series	SGB-3200	3	2	2	0	0	400	0.25	650×800×1350	650×800×1820	115/155
	SGB-3210		3	2	1	0			760×800×1350	760×800×1820	125/165
	SGB-3220		4	2	2	0			760×900×1350	760×900×1820	135/175
	SGB-3222		6	2	2	2			760×850×1350	760×850×1820	130/170
	SGB-3400		4	4	0	0			745×860×1350	745×860×1820	125/165
	SGB-3410		5	4	1	0			760×860×1350	760×860×1820	135/175
	SGB-3420		6	4	2	0			760×900×1350	760×900×1820	145/175
10 Series	SGB-10400	10	4	4	0	-	1200	0.55	1005×980×1535	1005×980×2365	350/450
	SGB-10410		5	4	1	-			1295×980×1535	1295×980×2365	370/460
	SGB-10420		6	4	2	-			1295×1150×1535	1295×1150×2365	380/470
	SGB-10600		6	6	0	-			1300×1100×1535	1300×1100×2365	390/480
	SGB-10610		7	6	1	-			1480×1100×1535	1480×1100×2365	400/490
	SGB-10620		8	6	2	-			1480×1350×1535	1480×1350×2365	410/500
20 Series	SGB-20400	20	4	4	0	-	3000	0.75	1260×1210×1980	1260×1210×2950	670/800
	SGB-20410		5	4	1	-			1380×1210×1980	1380×1210×2950	680/810
	SGB-20600		6	6	0	-			1480×1400×1980	1480×1400×2950	700/930
	SGB-20610		7	6	1	-			1620×1400×1980	1620×1400×2950	710/940
	SGB-20800		8	8	0	-			1700×1630×1980	1700×1630×2950	750/980

Note: 1) Above mentioned are common models.

²⁾ The above data are obtained based on even granules with bulk density of 0.8kg/l and diameter of 3-4mm in a test criteria of continuous process. The value may varies with the material characteristics. If doubtful materials are used, please make further discussion.

³⁾ Typically, vertical metering valves are suitable for material ratios above 1%, and metering screws are for material ratios below 1%.

⁴⁾ Voltage: 3Φ, 400/460/575VAC, 50/60Hz.
5) The output may vary by material type, shape, fluidity, density, and production process. For other special cases, don't hesitate to contact us.

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