



Volumetric Doser

SCM Single Color Doser

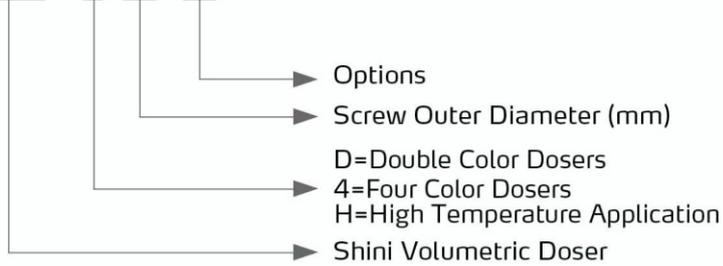


Refer carefully to this manual before operation.

SCM Series

■ Coding Principle

SCM - x- xx - xx



■ Features

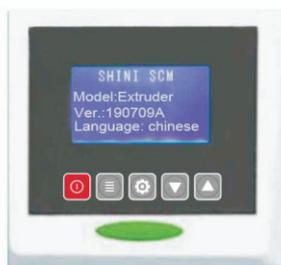
- Chrome coating dosing screw for long durability.
- Maintenance-free DC brushless motor from Germany.
- Modular design for easy color change and maintenance.
- Standard neckpiece with hopper magnets for better processing machine protection.
- Input available for both extrusion and injection mode.
- Uninterrupted production recovery in case of power failure.
- Synchronize of masterbatch dosing ratio with extruder speed.
- Masterbatch blockage alarm via motor overload.
- Support micro-dosing mode. Masterbatch will dose once per X cycle.
- Modbus RTU data communication via RS485.



SCM-4



SCM-D



Control Panel



RS485 interface

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.
- Optional masterbatch low-level sensor. Add "LS" at the end of the model code.
- Optional 100kg base (no mixer) with 90mm opening for high throughput application. Add "LB" at the end of the model code.



SCM-H



Heavy Base (optional)

Application

SCM series volumetric doser is suitable for even feeding of masterbatch, additive, and virgin material 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 four sets of dosing screws for various material receipt.

In SCM-D with three components application, two materials are dosed via a screw unit and free flow of main material through neckpiece.

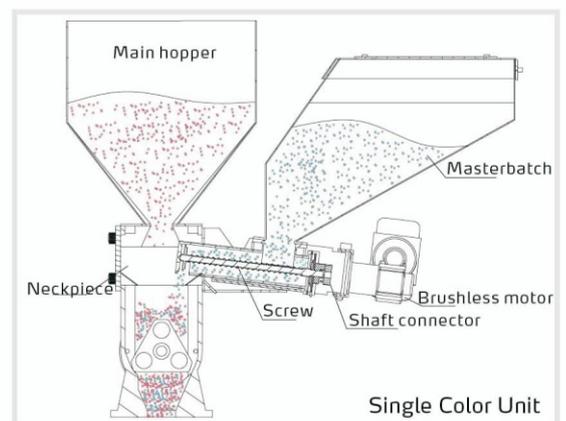
In SCM-4 with five components application, four materials can be dosed via a screw unit and free flow of main material through neckpiece.

SCM in high drying temperature application, such as PET preform production. Water cooling kit should be added to prevent masterbatch from sticking in the screw. Add "H" at the end of the model code.

SCM 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 SCM at all time.

Working Principle



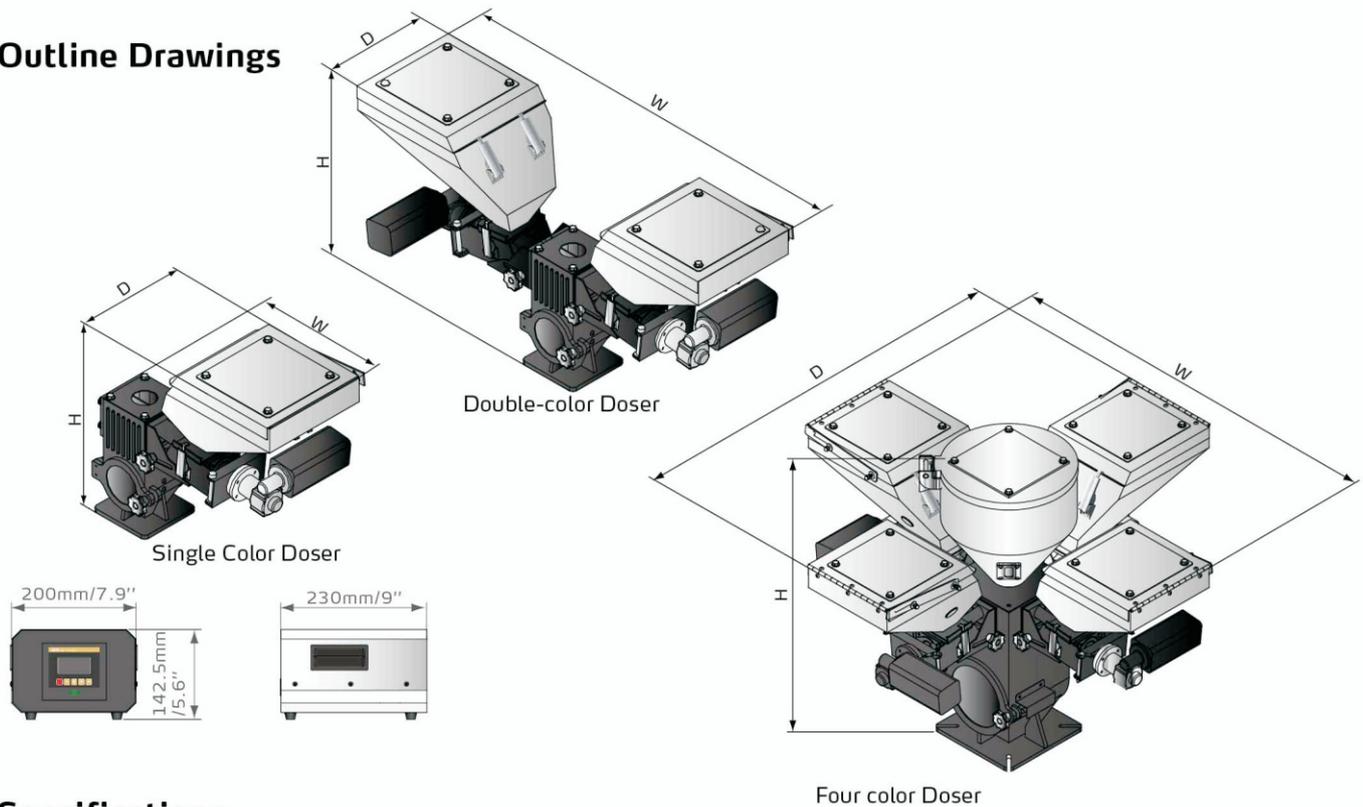
3D animation
(Tencent)



3D animation
(Youtube)

SCM Series

Outline Drawings



Specifications

Model		SCM-12	SCM-16	SCM-20	SCM-30	SCM-D	SCM-4	
Motor Power (kW, 50/60Hz)		0.06	0.06	0.06	0.06	0.06 × 2	0.06 × 2	
Output Power of Mixer (kW, 50/60Hz)		0.09	0.09	0.09	0.09	0.09	0.09	
Screw External Dia.		12mm/0.47"	16mm/0.63"	20mm/0.79"	30mm/1.18"	**	**	
Output Capacity		0.1-8	0.5-17	3-35	8-102	*	*	
Hopper (L)	Standard	10	10	10	10	10	10	
	Option heavy-duty base	15	15	15	15	15	-	
Gear Ratio		38:1	38:1	38:1	38:1	38:1 / 38:1	38:1	
Main Material Hopper(L)		○(15)	○(15)	○(15)	○(15)	○(15)	●(15)	
Mixer		○	○	○	○	○	●	
Heavy-duty Base		○	○	○	○	○	-	
Dimensions	H	mm	520	520	520	520	736	
		inch	20.5	20.5	20.5	20.5	29	
	W	mm	610	610	610	610	1045	1125
		inch	24	24	24	24	41	44.3
	D	mm	335	335	335	335	410	1125
		inch	13	13	13	13	16	44.3
Weight	kg	22	22	22	22	34	75	
	lb	48.5	48.5	48.5	48.5	75	163	

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 outputs of above models are measured under the conditions of 0.8kg/L bulk density and, masterbatch particles in diameter of 2-3mm by continuous operation. Actual output capacity depends on actual material's characteristics, the actual material, such as bulk density, flow ability, particle size, which is also depended on the setting recipe.

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

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



"Budget" Series Shini Volumetric Doser

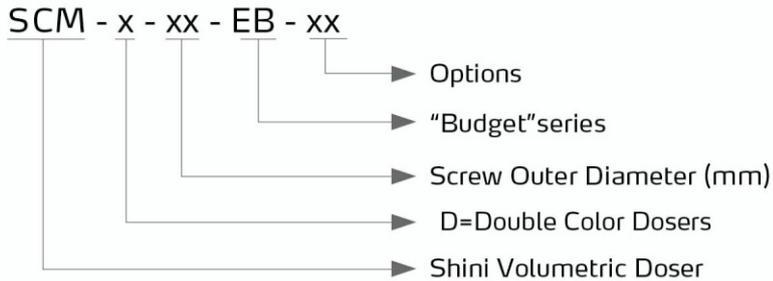
SCM-EB



Refer carefully to this manual before operation.

SCM-EB Series

■ Coding Principle



SCM-D-EB

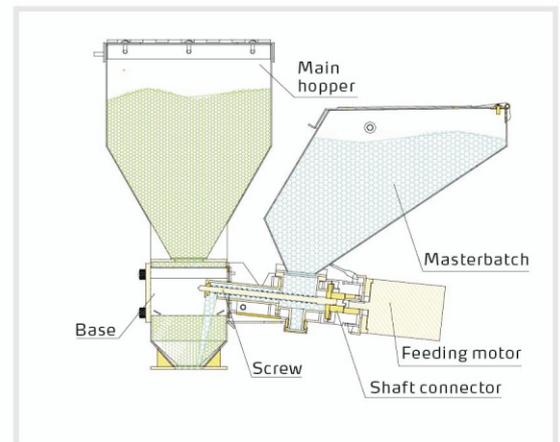
■ Features

- Dosing screws are chrome plated for durability.
- Use step 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.
- 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.

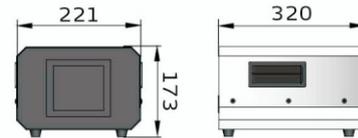
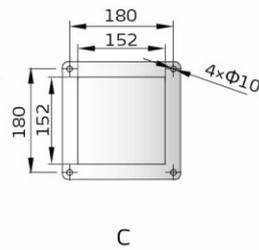
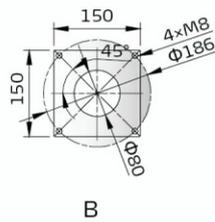
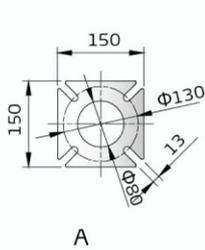
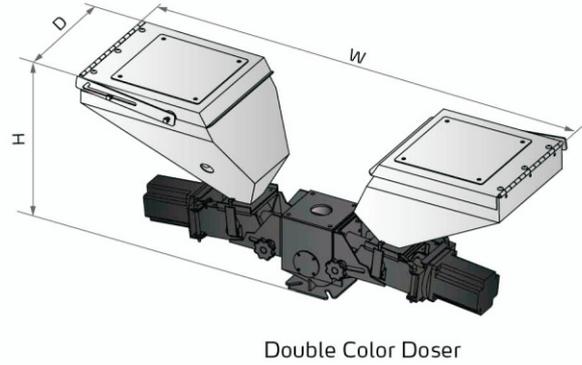
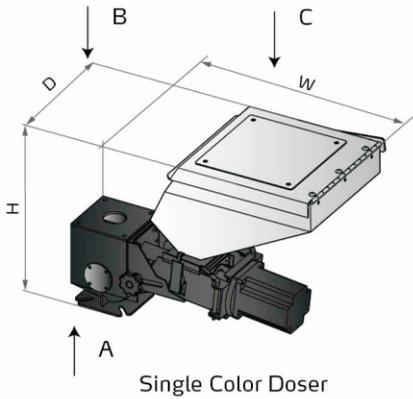
■ Application

SCM-EB series volumetric dosers are suitable for injection molding, extrusion blow molding and other occasions, and can be used for auto-proportional mixing of virgin materials, regrinds, master batch or additives. The injection molding machine supports various external signal input modes. When working with the extruder, SCM-EB can adjust the feeding speed automatically with the extruder's processing speed to ensure stable color difference of the product. Besides, double-color doser is available for collocating with multiple color dosers if required. Due to small additives proportion and dosage, SCM-EB can work with the Venturi Loader VL to realize auto feeding of the master batch.

■ Working Principle



Outline Drawings



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)	10	10	10	10	10
Dimensions	H(mm)	420	420	420	420
	W(mm)	585	585	585	1030
	D(mm)	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) Power supply: 1Φ, 115/230V, 50/60Hz.

Options

Low level sensor can be opted to give an alarm when masterbatch is insufficient, and add "LS" at the end of the model code.

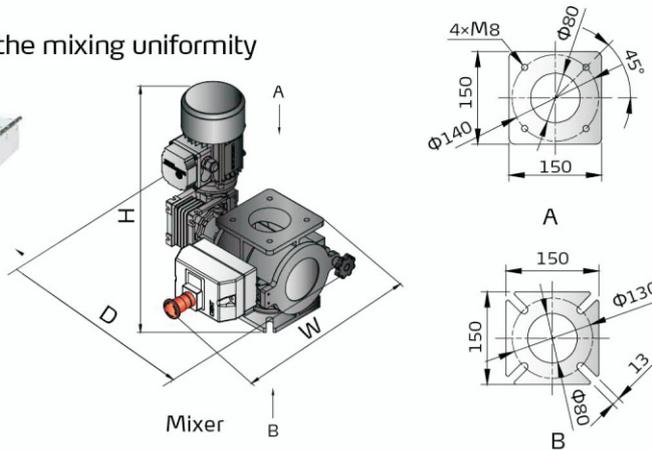
SCM-EB Series

Accessory

- Mixer CMB-1 to enhance the mixing uniformity



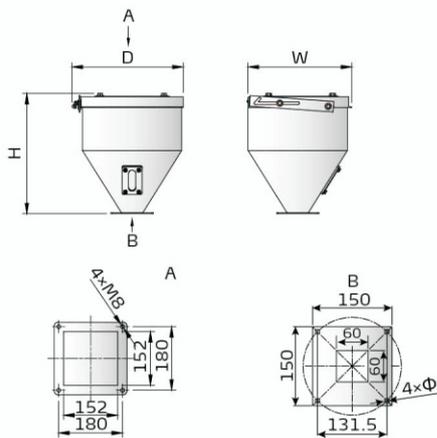
Collocated with the mixer



Model	CMB-1
Power(kW)	0.25
H(mm)	364
W(mm)	347
D(mm)	371

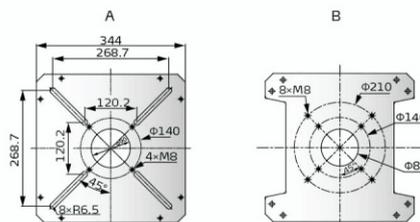
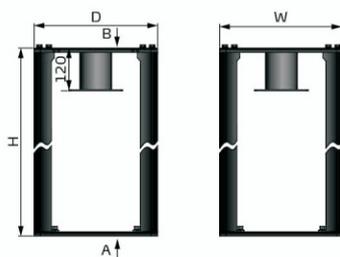
Power: 3 Φ, 400VAC, 50Hz

- Main material hopper makes it easy for the customer to add materials



Model	MH-15
Capacity(L)	15
Material	SUS201
H(mm)	364
W(mm)	347
D(mm)	371

- Heavy-duty base (used when collocating with the SEHD/SHD-E/SHD-EB-100~300 or SHD-160U~SHD-450U)



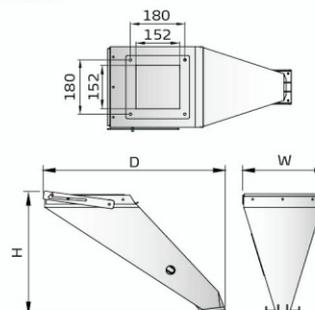
Heavy-duty base dim.

Model	HB-1	HB-2
H(mm)	332	527
D(mm)	344	344
W(mm)	344	344

Note: The model is HB-1 when collocating with standard SCM;

The model is HB-2 when collocating with standard SCM+CMB-1;

- The long hopper is used with the heavy-duty base



Long hopper dia.

Model	LH-15
Capacity(L)	15
Material	SUS201
H(mm)	411
D(mm)	608
W(mm)	281



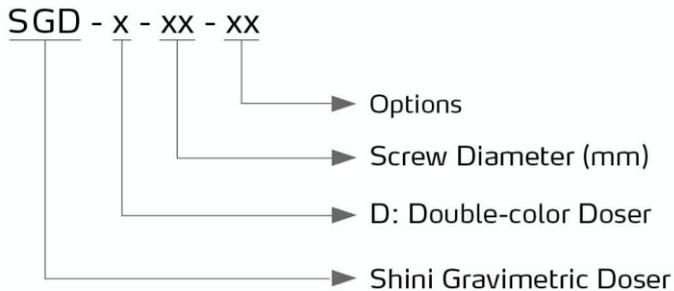
Gravimetric Doser

SGD-12



Refer carefully to this manual before operation.

■ Coding Principle

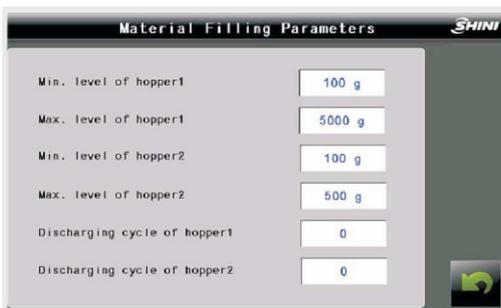


■ Features

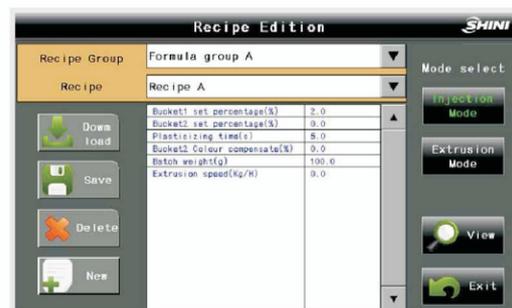
- Chrome coating dosing screw for long durability.
- Modular design for easy color change and maintenance.
- Standard neckpiece with hopper magnets for better processing machine protection.
- Uninterrupted production recovery in case of power failure.
- Loss-it-weight dosing control for better dosing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



Heavy Base (Optional)



Parameter Setting Mode

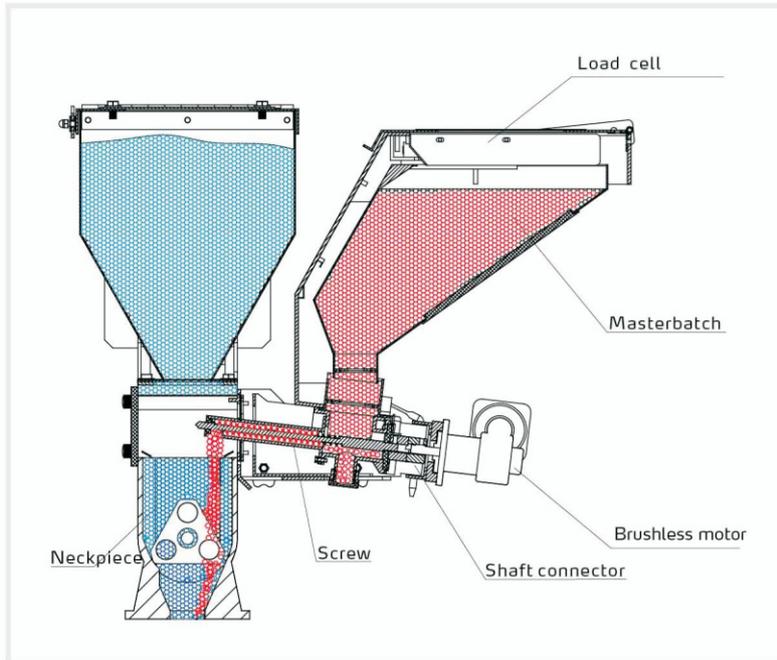


Recipe Edit Menu

■ 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

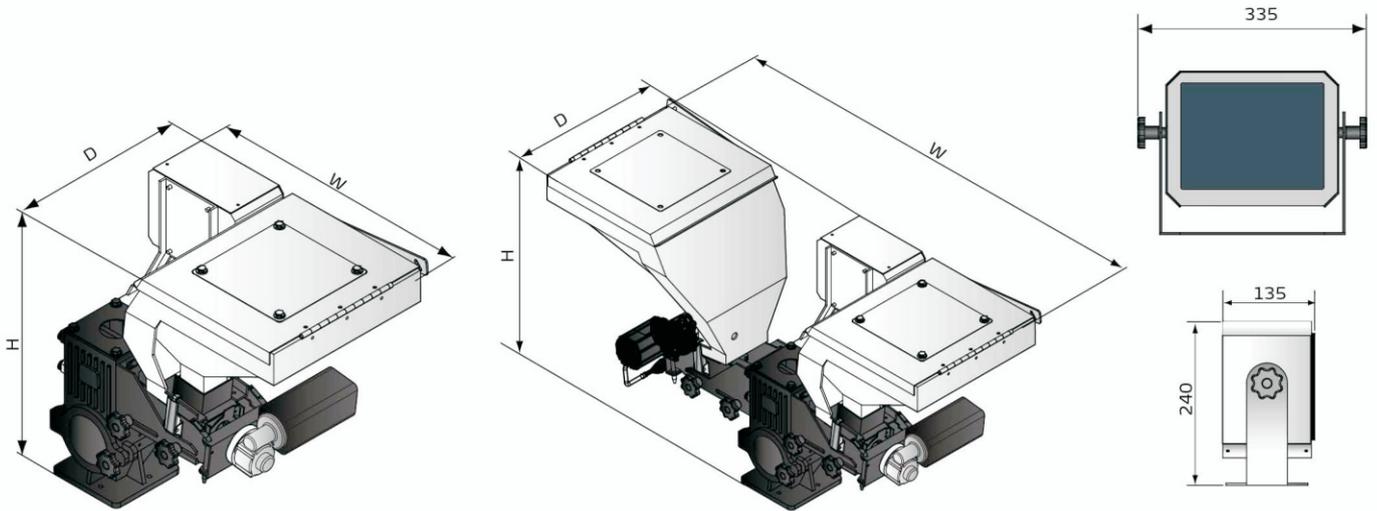
SGD gravimetric doser is suitable for continuous precision dosing of masterbatch to the plastic process machine. The unit has a selection of four dosing screw sizes for different throughput needs. The unit can support up to two sets of dosing screws for various material receipt. The lose-it-weight technology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



"Budget" Series Gravimetric Doser

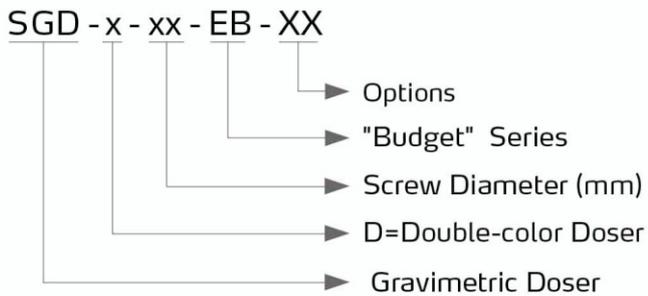
SGD-EB



Refer carefully to this manual before operation.

SGD-EB Series

■ Coding Principle



■ Features

- Dosing screws are chrome plated for durability.
- Modular assembly structure for easy cleaning, disassembly and interchangeability.
- Standard base equipped with hopper magnet to prevent screw damage of the IMM.
- The current operation mode can be recorded, unaffected by power failure so operation would be resume to normal when power is on.
- Set the manually discharging valve for easy replacement of master batch.
- SGD is able to automatically monitor the dosing of masterbatch and additives.
- Equipped with the RS485 communication port.
- Manipulate dosing process via loss-in-weight technology, satisfying the high requirement of production precision.
- Up to 50 groups of recipes can be saved.
- Suitable for injection molding machines and extruders.
- 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.



Parameter Setting Mode

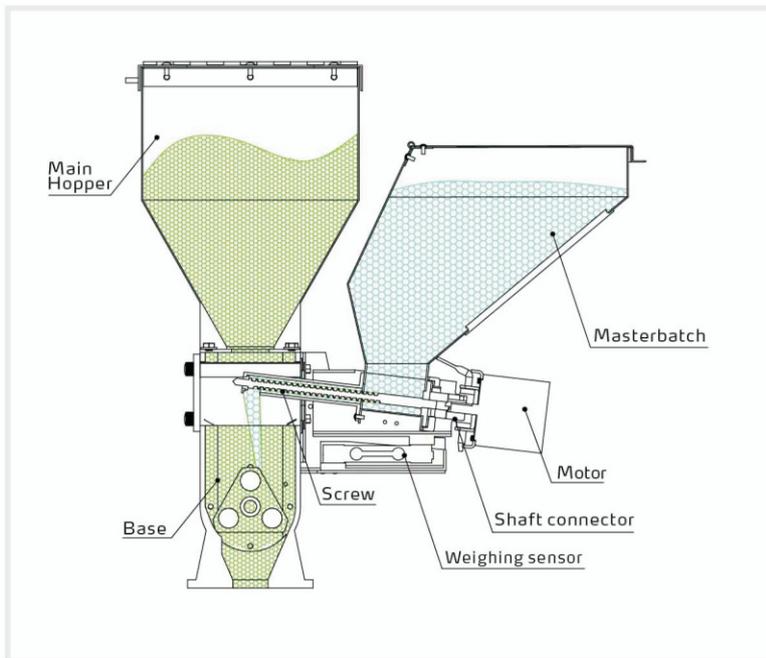
30.00g	147.5RPM	TEST
PRODUCT WT.		
20.0%	#1 TARGET SP.	0.0sec
#1 MIXING	SAVE RECIPE TO MEMO	MIXING
%	0	HOME
PLASTISIZING	LOAD FROM MEMO	
ADD. UNIT	0	

Recipe Edit Menu

■ 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.

■ Working Principle

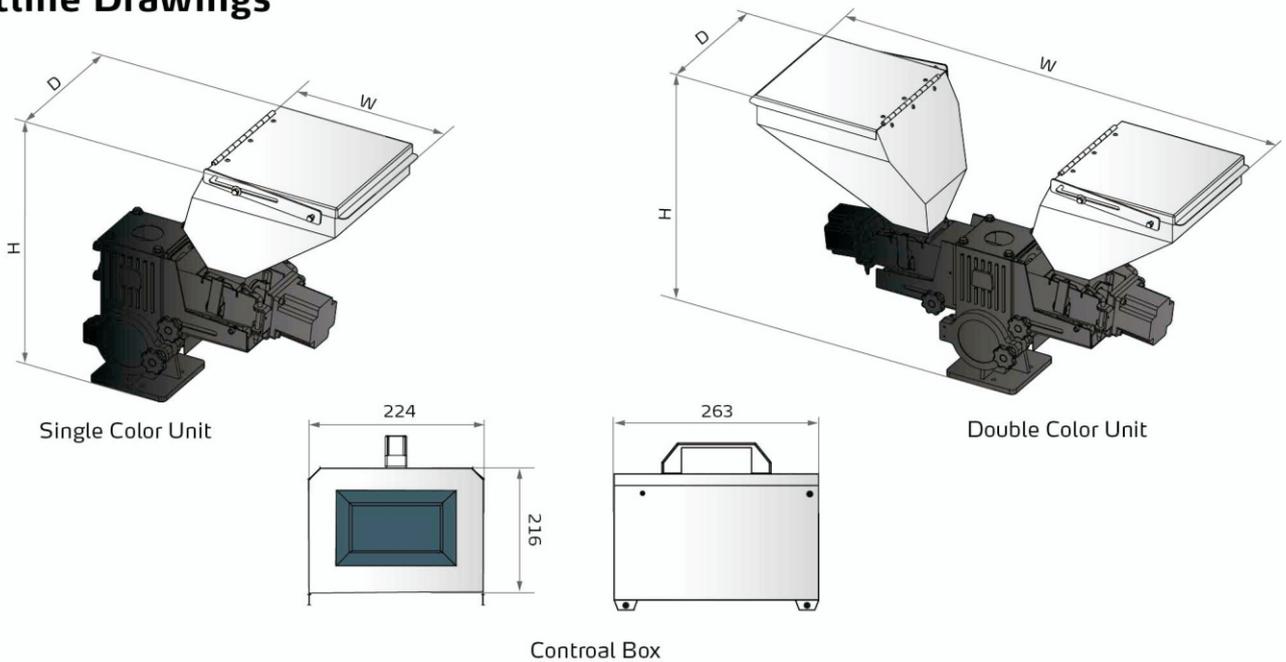


■ Application

SGD-EB series dosers are suitable for auto-proportional mixing of virgin materials, regrinds, masterbatch or additives. The motor with gear ratio of 38:1 is coupled to a dosing screw of 12, 16, 20 or 30 mm in diameter to give a total of four models with the output ranging from 0.04-60kg/hr. Double color dosers can be assembled from two single color dosers according to customer's requirement. SGD-EB supports the extruder mode. When working with the extruder, it 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, SGD-EB can work with the Venturi Loader VL to realize auto feeding of the masterbatch.

SGD-EB Series

Outline Drawings



Specifications

Model	Single Color Unit				Double Color Unit
	SGD-12-EB	SGD-16-EB	SGD-20-EB	SGD-30-EB	SGD-D-EB
Motor Power (kW, 50/60Hz)	0.06	0.06	0.06	0.06	0.06×2
Mixer Power	0.25	0.25	0.25	0.25	0.25
Screw External Dia.	12	16	20	30	**
Output Capacity	0.04~3.6	0.1~16	1.0~30	3.0~60	*
Storage Hopper	10	10	10	10	10
Main Material Hopper	○(15)	○(15)	○(15)	○(15)	○(15)
Mixer	○	○	○	○	○
Heavy-duty Base	○	○	○	○	○
Dimensions	H(mm)	535	535	535	535
	W(mm)	550	550	550	970
	D(mm)	290	290	290	290
Weight	17	17	17	17	30

- 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-EB, output: capacity 0.14~19.6kg/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 by continuous testing under the conditions of masterbatch in material bulk density of 1.2 kg/L, and diameter of 2-3 mm.
 5) Power supply: 1Φ, 115/230V, 50/60Hz.

We reserve the right to change specifications without prior notice.



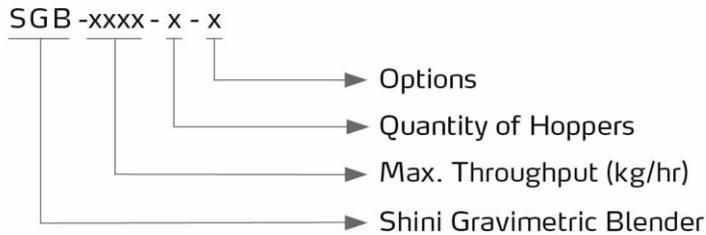
Gravimetric Blender

SGB-200-4



Refer carefully to the manual before operation.

■ Coding Principle



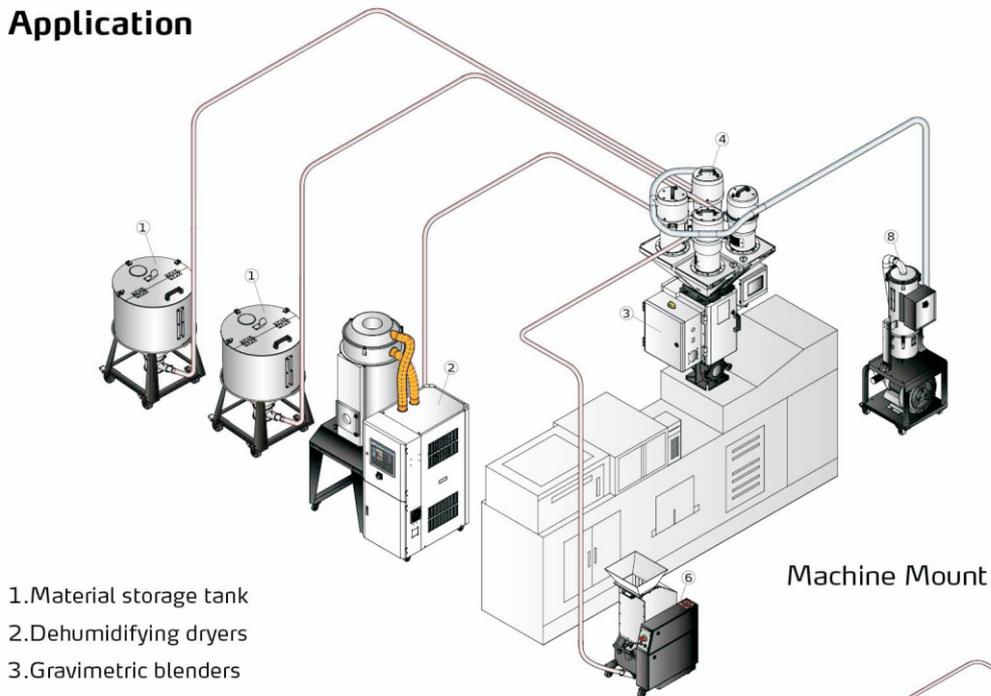
■ Features

- The gravimetric technology ensures the overall precision of $\pm 0.1\%$ while using micro-dosing with free-flowing material.
- The load cell allow the unit to measure each batch and correct the next batch to realize constant dosing precision.
- Mixing tank provide even mix of materials and large easy maintenance door.
- Standard floor stand for SGB-1200 and above model. Which includes floor stand, material storage tank, and pneumatic discharge slide gate.
- Modbus TCP data communication via ethernet.
- Integrate material conveying control for the optional SVG vacuum unit and SHR-U-ST hopper receiver.

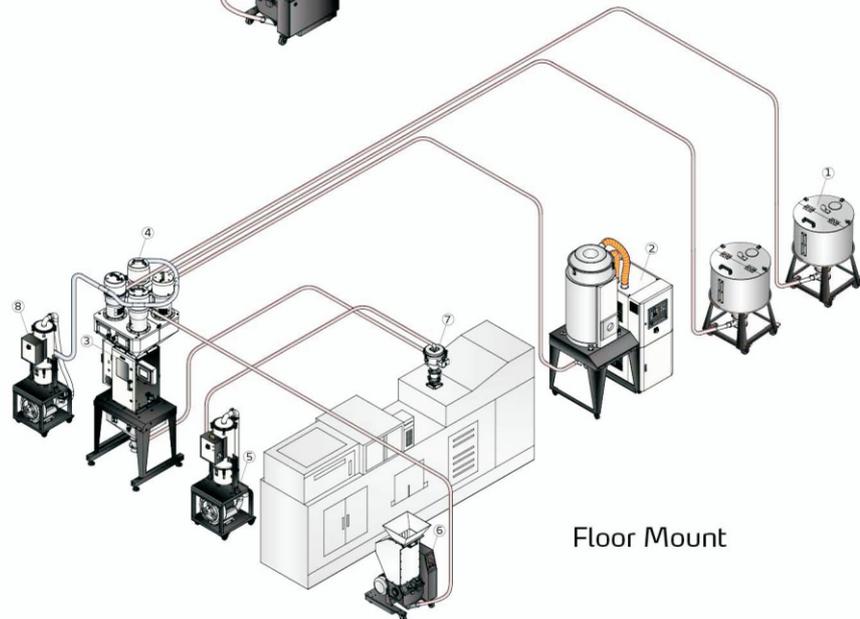
■ Options

- Optional low-level sensor for storage hopper. Recommend for those hoppers without hopper receiver. Add "LS" at the end of the model code.
- Optional floor stand for SGB-600 and below model. Which includes floor stand, material storage tank, pneumatic discharge slide gate, and suction box. Add "GS" at the end of the model code.
- Micro-scale pulse valve is optional for SGB-40 to meter materials with proportion of 0.2%-0.5%, and add "MF" at the end of the model code.
- Optional micro-dosing of 0.2~0.5% with screw feeder for SGB-200/600. Add "SF" at the end of the model code.
- Optional special metering valve for SGB-200 and above. It is for flake or irregular material while the diameter is less than 12*12*12mm/0.47*0.47*0.47inch. Add "FF" at the end of the model code.
- Function of recycled material auto-compensation is optional (recycling hopper should option with low level sensor). Aberration compensation can be automatically calculated according to the discharging amount of recycled materials, and add "AC" at the end of the model code.

Application



1. Material storage tank
2. Dehumidifying dryers
3. Gravimetric blenders
4. Vacuum receiver
5. Main vacuum unit
6. Low-speed granulators
7. Photosensor hopper receiver
8. Main vacuum unit (SVG)



Floor Mount

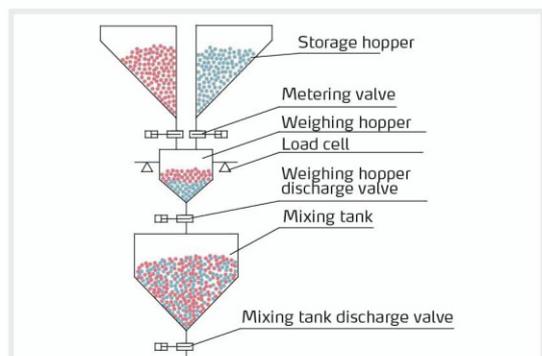
Working Principle



3D animation
(Tencent)



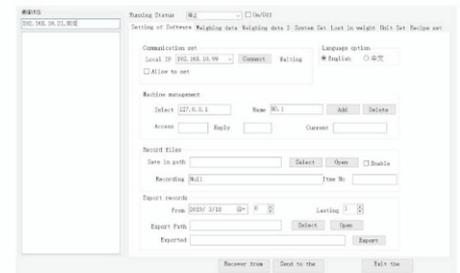
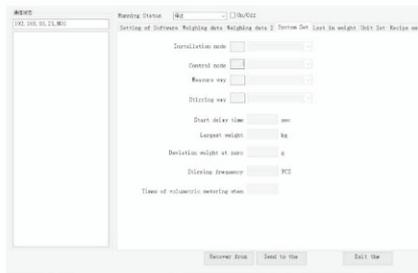
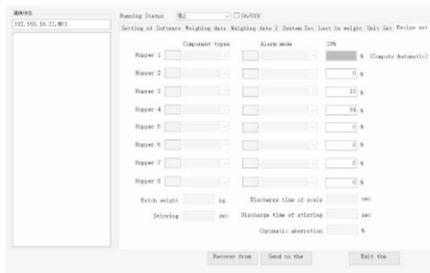
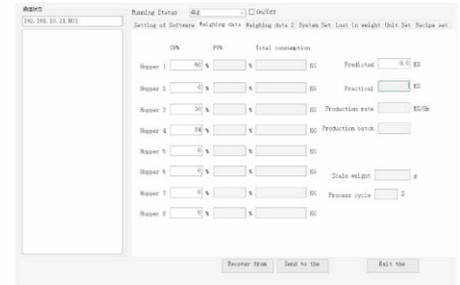
3D animation
(Youtube)



Accessories

SRM remote monitoring software

- The software is compatible with Windows system.
- Ethernet Modbus-TCP communication protocol ready.
- Enable real-time data in the form of the spreadsheet of equipment, such as batch precision etc.
- Functions of remote monitoring, debugging, receipt setting and data saving for several SGB equipments.



SVG Vacuum Generator

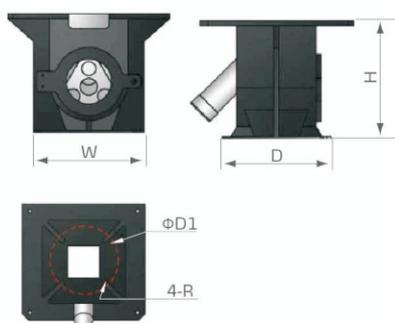
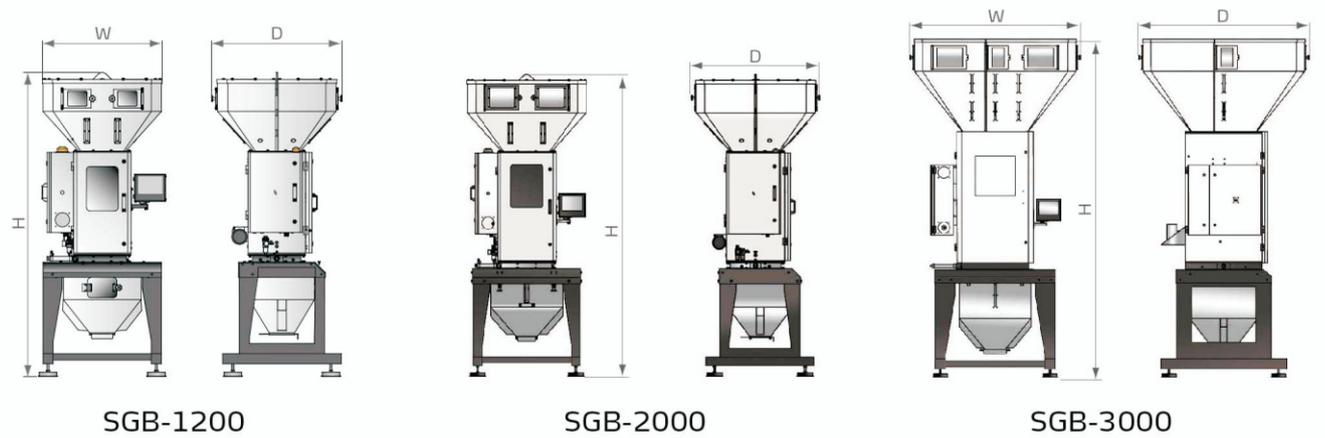
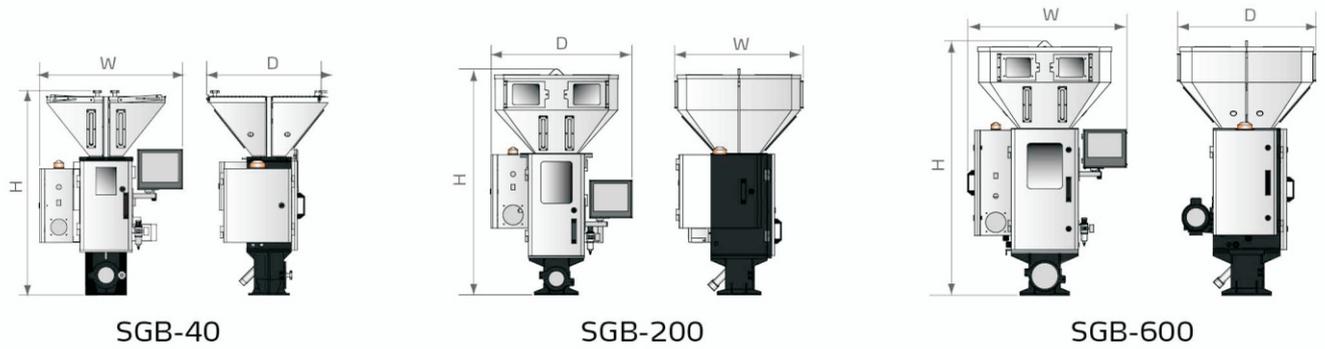
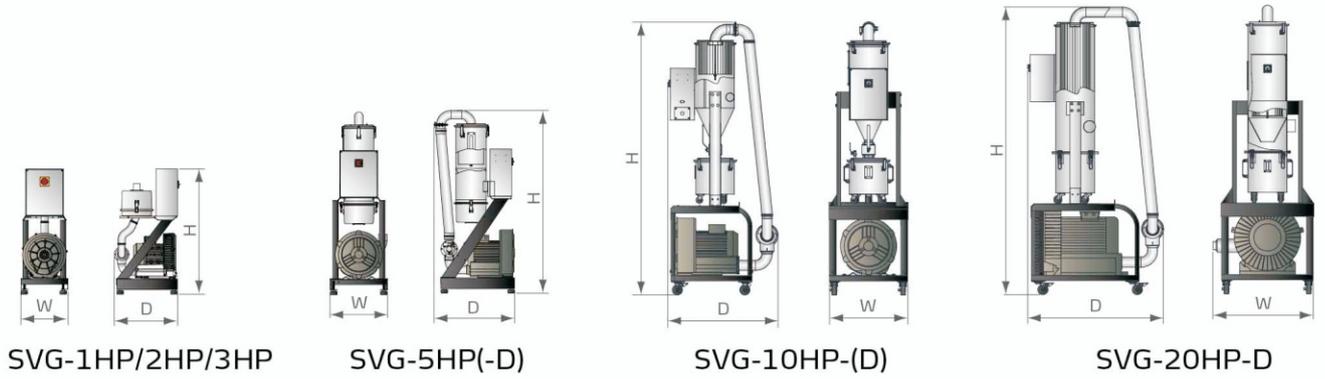
SVG can work with SGB and SHR-U-ST vacuum hopper directly to convey materials into the storage hopper of the SGB. The controller of SVG is integrated into the SGB, so it can control all the functions of SVG through the touch panel to make it more useful. The T-shape design of SHR-U-ST's suction pipe 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.



Model	Vacuum unit	Power (kW)	Central hopper receiver	Hopper capacity		Material (inch)	Vacuum pipe (inch)	Dimension H×W×D(mm)		
				L	gal					
SGB-40	-4	SVG-1HP	0.75	4×SHR-3U-ST	3	0.79	1.5	2	933×350×450	
SGB-200	-4	SVG-2HP	1.5	4×SHR-6U-ST	6	1.59	1.5	2		
SGB-600	-6	SVG-3HP	1.85	6×SHR-12U-ST	12	3.17	1.5	2	1359×426×593	
	-4	SVG-5HP	3.75	4×SHR-12U-ST	12	3.17	1.5	2		
SGB-1200	-6	SVG-5HP	3.75	6×SHR-12U-ST	12	3.17	1.5	2		2031×580×818
	-4	SVG-10HP	7.5	4×SHR-36U-ST	36	9.5	2	2.5		
SGB-2000	-8	SVG-10HP	7.5	8×SHR-36U-ST	36	9.5	2	2.5	2031×750×818	
	-6	SVG-10HP	7.5	6×SHR-36U-ST	36	9.5	2	2.5		
SGB-3000	-4	SVG-10HP-D	7.5	4×SHR-36U-ST	36	9.5	2	2.5		2200×745×1000
	-8	SVG-10HP-D	7.5	8×SHR-36U-ST	36	9.5	2	2.5		
SGB-3000	-6	SVG-20HP-D	13	6×SHR-48U-ST	48	12.7	2.5	3	2200×745×1000	
	-4	SVG-20HP-D	13	4×SHR-48U-ST	48	12.7	2.5	3		

- Notes: 1) "T" means the material suction pipe is T joint.
 2) Optional cooler is available for SVG-5HP and above models to feed the high temp. drying hopper with working temp. above 160°C, and add "C" at the end of the model code.
 3) Power: 3Φ, 400VAC, 50Hz.

Outline Drawings



Magnetic Base(For SGB-600 or below)



Floor Stand(For SGB-600 or below)

SGB Series

Dimension

Model		SGB-40	SGB-200	SGB-600	SGB-1200	SGB-2000	SGB-3000
H×W×D	mm	1110×770×675	1300×810×735	1445×905×785	2398×940×1023	2800×1110×1180	3375×1695×1695
	inch	43.7×30.3×26.6	51.1×31.9×28.9	56.8×35.6×30.9	94.4×37×40.3	110.2×43.7×46.5	132.9×66.7×66.7
Magnetic Base (W×D×H×ΦD1×R)	mm	220×220×244×160×6.5	250×250×213×200×6	280×280×250×220×6	-	-	-
	inch	8.7×8.7×9.6×6.3×0.26	9.8×9.8×8.4×7.7×0.24	11×11×9.8×8.7×0.24	-	-	-
Floor Stand (H1×H2×W×D)	mm	713×50×654×600	880×50×724×800	885×60×814×800	900×60×930×930	1000×65×1060×1000	1075×70×1240×1240
	inch	28×2×25.7×23.6	34.6×2×28.5×31.5	34.8×2.4×32×31.5	35.4×2.4×36.6×36.6	39.4×2.6×41.7×39.4	42.3×2.8×48.8×48.8
Weight (Direct Mount)	kg	115	135	160	-	-	-
	lb	254	298	353	-	-	-
Weight (Inc. Floor Mount)	kg	135	170	220	400	500	850
	lb	298	375	485	882	1102	1874

Specifications

Model		Components	Main Metering Valve	Secondary Metering Valve	Max. Batch		Mixing Motor Power (kW)	Max. Throughput	
					kg	lb		kg/hr	lb/hr
SGB-40-	4	4	3	1	1.0	2.2	0.25	40	88
SGB-200-	4	4	3	1	3.0	6.6	0.25	200	441
SGB-600-	6	6	4	2	8	17.5	0.55	400	882
	4	4	3	1				600	1323
SGB-1200-	6	6	4	2	12	26.5	0.55	900	1984
	4	4	3	1				1200	2646
SGB-2000-	8	8	5	3	18	39.5	0.55	1200	2646
	6	6	4	2				1600	3527
	4	4	3	1				2000	4409
SGB-3000-	8	8	5	3	40	88	0.75	2000	4409
	6	6	4	2				2500	5512
	4	4	3	1				3000	6614

Notes: 1) The above data is based on continuous running of even material whose bulk densities are 0.8kg/L(6.68lb/gal) and diameters are 3~4mm/0.12~0.16inch. The values varies along material features. Please contact Shini if the material is not sure.

- The main metering valve is suitable for proportion not lower than 5% and raw material of even particles or recycled materials of even particles whose diameters are within 6*6*6mm/0.24*0.24*0.24inch.
- The secondary metering valve is suitable for proportion of 0.5%~5% and master batch of even particles or additives whose diameters are within 4*4*4mm/0.16*0.16*0.16inch.
- Come with a set of secondary metering valves for use when replacing recipe.
- Three-phase supply is adopted in the blending motor.



Storage Mixer

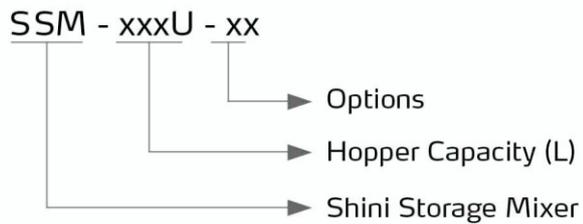
SSM-160U



Refer carefully to the manual before operation.

SSM-U Series

■ Coding Principle



■ Features

- Vertically mounted blending screw and cylinder ensure even mixing of materials.
- Removable top assembly (lid, motor, and control box) for easy cleaning.
- Auto-stop timer function.
- Equipped with main power switch and safety interlock to ensure operator's safety.
- SSM-U has height adjustable floor stand and braking castors as standard accessories for easy movement.

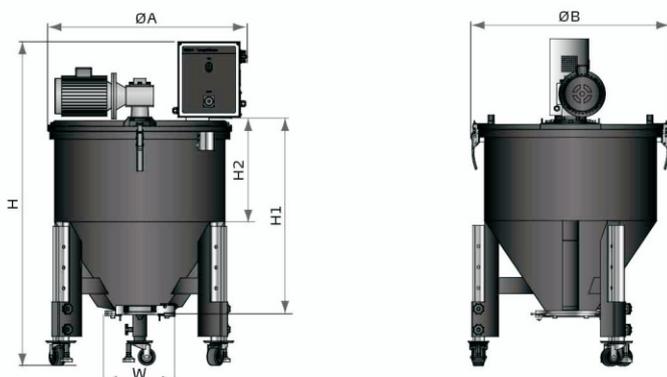
■ Options

- Pneumatic discharge plate is an optional accessory for mounting at discharge outlet, and add "SP" at the end of the model code.

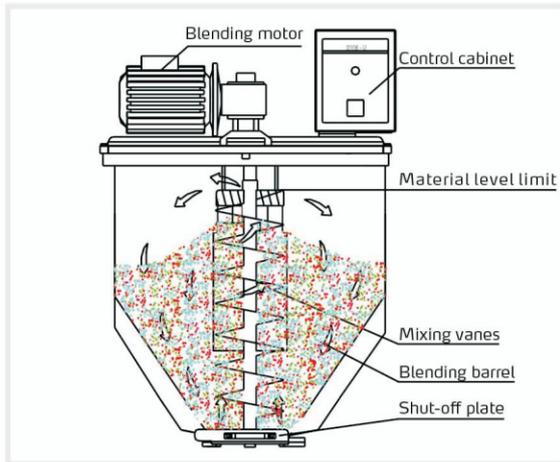
■ Application

SSM-U is mainly used for mixing plastics such as raw materials, masterbatch and recycled materials. SSM-U can not be used dealing with plastic powder and all kinds of foods, chemicals, and inflammable, explosive and volatile materials. Bulk density should be taken into account when the dimension of material is uneven or in other forms. Collocated with suction pipe for convenient material transport .

■ Outline Drawings



Working Principle



Specifications

Model		SSM-80U	SSM-160U	SSM-300U	
Motor Power (kW)		0.55	0.55	1.1	
Max. Throughput	kg/hr	200	400	800	
	lb/hr	441	882	1763	
Blending Barrel*	L	80	160	300	
	gal	21	42	79	
Dimensions	H	mm	1158	1410	1615
		inch	45.6	55.5	63.6
	H1	mm	694	867	982
		inch	27.3	34.1	38.7
	H2	mm	352	454	505
		inch	13.9	17.9	19.9
	W	mm	256	302	302
		inch	10	11.9	11.9
	ΦA	mm	766	873	1009
		inch	30.2	34.4	39.7
	ΦB	mm	711	867	1050
		inch	28	34.1	41.3
Weight	kg	83	126	187	
	lb	183	278	412	

Notes: 1) "*" stands for the optimal mixing time at full load is about 15min.

2) Max. noise level is 70dB (A).

3) Max. mixing capacity is tested based on continuous processing material of 0.65kg/L(5.5lb/gal) in bulk density and 2~3mm/0.08~0.12inch in size.

4) Power 3Φ, 230 / 400 / 460 / 575VAC, 50 / 60Hz.

We reserve the right to change specifications without prior notice.



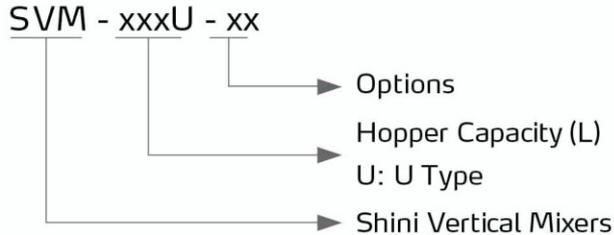
Vertical Batch Mixer

SVM-300U



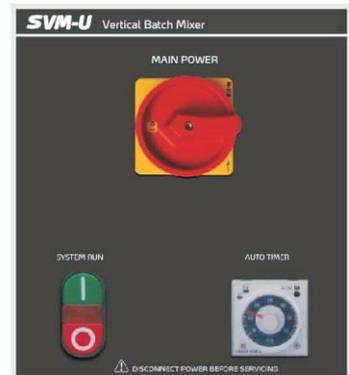
Refer carefully to the manual before operation.

■ Coding Principle



■ Features

- Vertically mounted blending screw and cylinder ensure even mixing of materials.
- Function of feeding plus mixing simultaneously can save time significantly.
- Timer auto-stop function.
- Bottom material feeding method makes it easy for material supply.



Control Panel

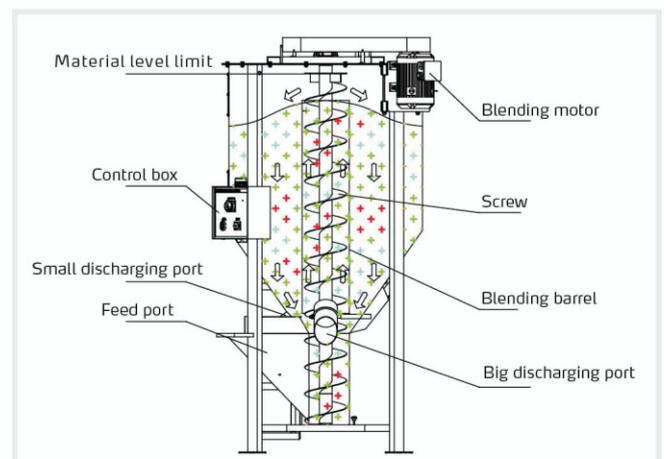
■ Options

- Rotary level sensor is optional, and add "HL" at the end of model code.
- For SVM-1000U and above models optional with the heating function, and add "HA" at the end of the model code.

■ Application

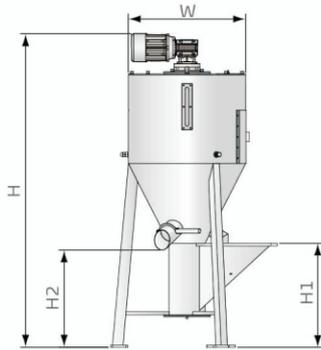
SVM-U is mainly used for mixing plastics as raw materials, masterbatch and recycled materials. SVM-U can not be used dealing with plastic powder and all kinds of foods, chemicals, and inflammable, explosive and volatile materials. Bulk density should be taken into account when the dimension of material is uneven or in other forms.

■ Working Principle

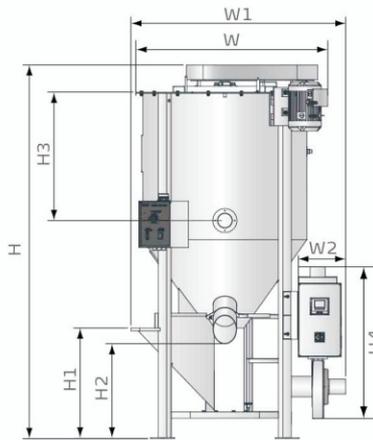


SVM-U Series

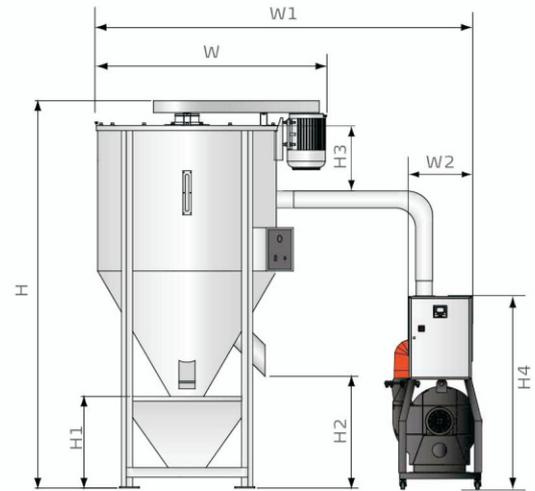
Outline Drawings



SVM-300U and below



SVM-1000U(-HA700)



SVM-2000U(-HA1000) and above

Model	Blower power (kW)	Process heater power (kW)	Heating box air outlet pipe dia. (inch)	W1(mm)	W2(mm)	H3(mm)	H4(mm)
SVM-1000U-HA700	1.1	24	4	1454	427	860	1091
SVM-2000U-HA1000	3.7	32	5	3115	815	875	1650
SVM-3000U-HA1500	5.5	58	8	3240	780	885	2010
SVM-4000U-HA2000	7.5	64	8	3550	990	915	2290
SVM-6000U-HA3000	15	96	8	3704	994	915	2376
SVM-10000U-HA4000	22	128	10	4195	1105	1600	2560

Specifications

Model		SVM-160U	SVM-300U	SVM-1000U	SVM-2000U	SVM-3000U	SVM-4000U	SVM-6000U	SVM-10000U	
Motor Power (kW,50/60Hz)		1.1	1.1	4	5.5	5.5	5.5	7.5	11	
Max. Throughput	kg/hr	400	800	2600	3900	5800	7800	9750	13000	
	lb/hr	882	1764	5732	8598	12787	17196	21495	28660	
Blending Barrel*	L	160	300	1000	2000	3000	4000	6000	10000	
	gal	42	79	264	529	793	1057	1585	2642	
Dimensions	H	mm	1770	1970	2538	2890	3260	3530	4110	4480
		inch	69.7	77.6	99.9	113.8	128.3	139	161.8	176.4
	H1 (mm)	mm	590	590	751	820	840	910	930	1000
		inch	23.2	23.2	29.6	32.3	33.1	35.8	36.6	39.4
	H2 (mm)	mm	550	540	643	690	690	840	790	780
		inch	21.7	21.3	25.3	27.2	27.2	33.1	31.1	30.7
W (mm)	mm	660	770	1330	1700	1860	1990	2110	2490	
	inch	26	30.3	57.2	66.9	73.2	78.3	83.1	98	
Weight	kg	170	190	520	730	890	1080	1370	2090	
	lb	375	419	1146	1609	1962	2381	3020	4607	

Notes: 1) Max. mixing capacity is tested based on continuous processing material of 0.65kg/L(5.5lb/gal) in bulk density and 2~3mm/0.08~0.12inch in size.
2) Power 3Φ, 230 / 400 / 460 / 575VAC, 50 / 60Hz.

We reserve the right to change specifications without prior notice.



Proportional Valve

SPV-38U-C

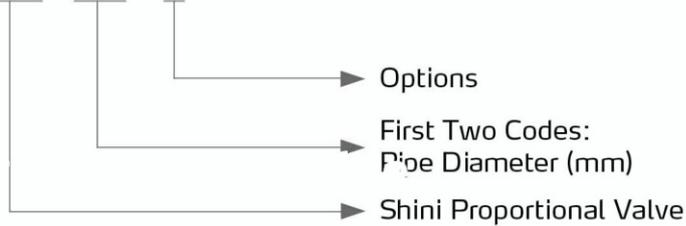


Refer carefully to the manual before operation.

SPV-U Series

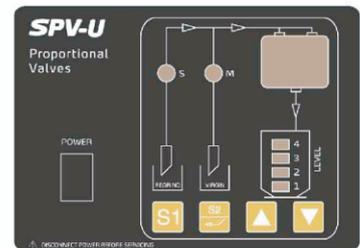
■ Coding Principle

SPV - xxU - X



■ Features

- Easy installation and operation.
- Unique design of valve body makes material conveying more smooth.
- The performance of solenoid valve is so stable that the air cylinder acts accurately to ensure a proportional mixing of new and regrind materials.
- Equipped with 1~4 levels working function selection, making material mixing more evenly.

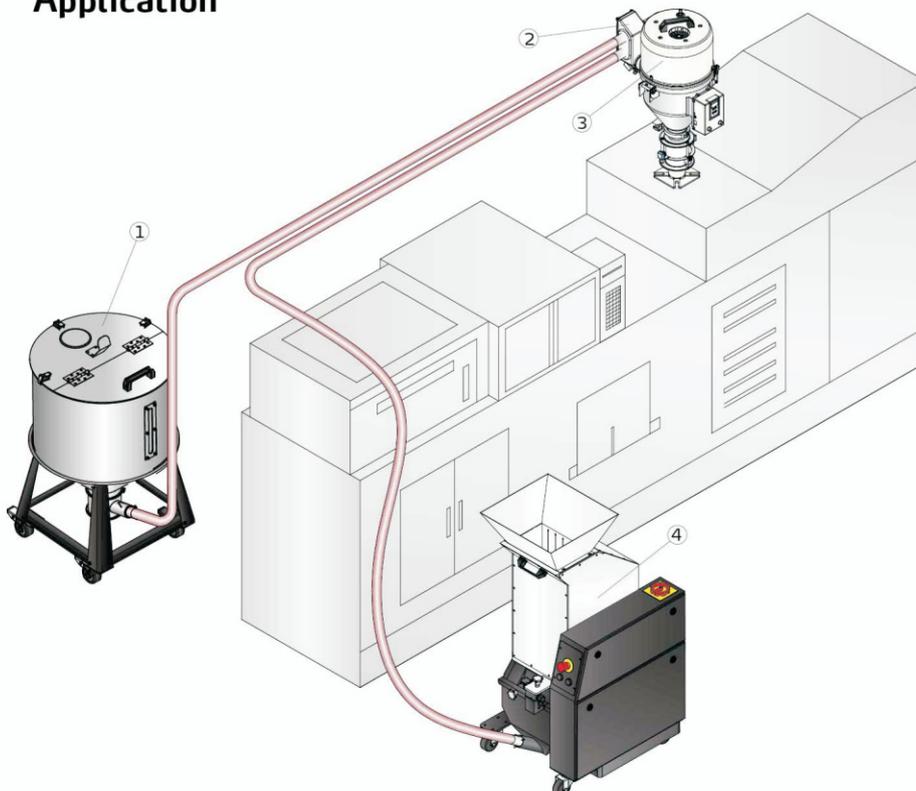


Control Panel

■ Options

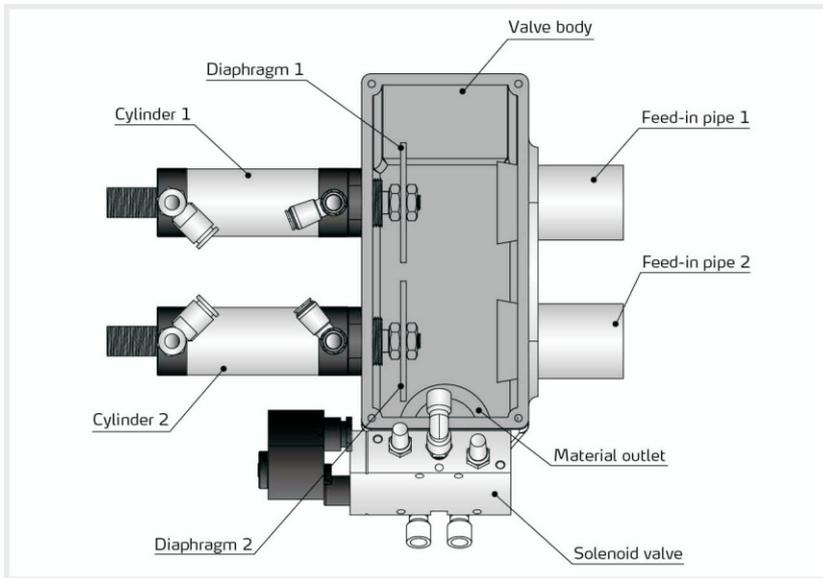
- Control cabinet can be an option, add "C" at the end of the model code.

■ Application

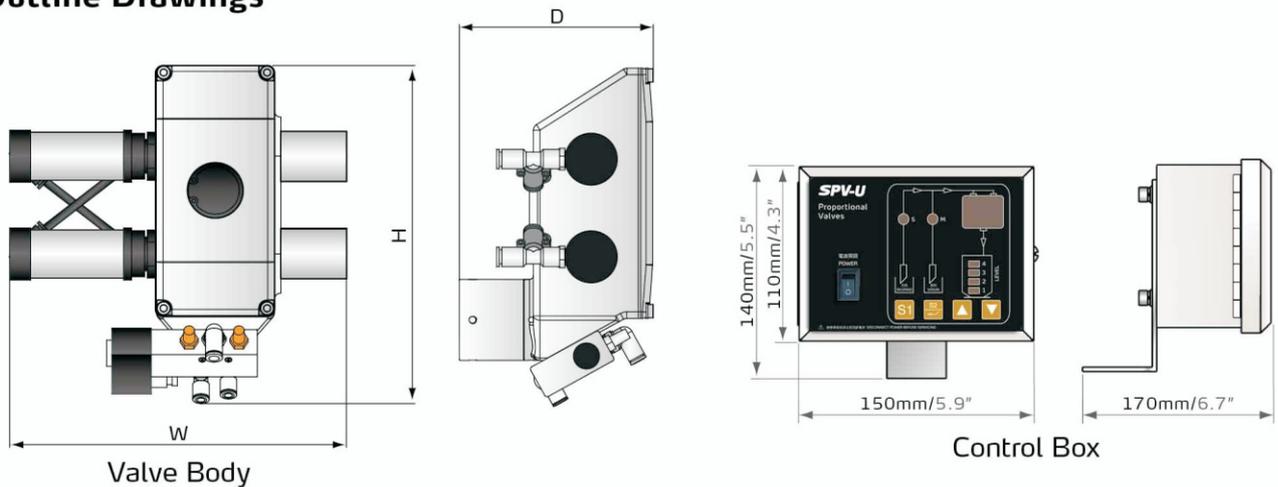


1. Material storage tank
2. Proportional valve
3. "Standard" self-contained hopper loaders
4. Low-speed granulator

Working Principle



Outline Drawings



Specifications

Model	Compressed Air Pressure	Maximum Material Flow	Pipe Size (inch)	Dimensions H x W x D		Weight	
				mm	inch	kg	lb
SPV-38U-(C)	3kgf/cm ²	350kg/hr	1.5	270×260×150	10.6×10.2×5.9	3.5	7.7
SPV-50U-(C)	3kgf/cm ²	550kg/hr	2	270×260×150	10.6×10.2×5.9	3.8	8.4

Notes:1) Above maximum Maximum Material Flow is based on pellet material of 0.65kg/L(5.5lb/gal) in bulk density and 3-5mm/0.12-0.2inch in diameter.

2) Power supply: 1Φ, 115 / 230VAC, 50 / 60Hz.

We reserve the right to change specifications without prior notice.



Metal Detecting Separator

SMS



Refer carefully to this manual before operation.

■ Coding Principle



■ Features

- Fast separating all the metals from the material.
- The minimum detectable diameter of the metals can be as small as 0.5mm.
- Compact design, easy to install and simple to operate.
- Standard equipped with a 12L/3.2gal hopper.

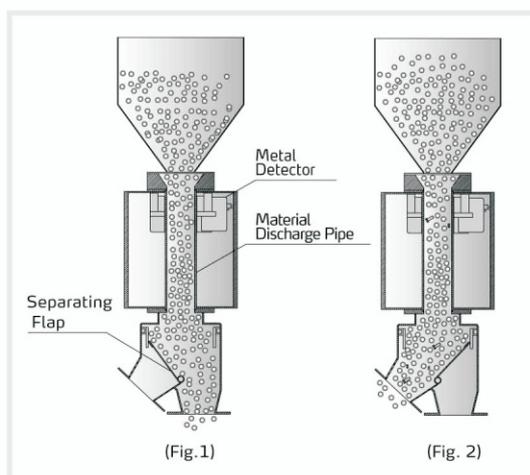
■ Options

For models optional with the floor stand, and add "F" at the end of the model code.

■ Application

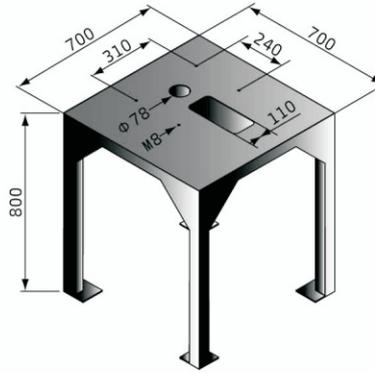
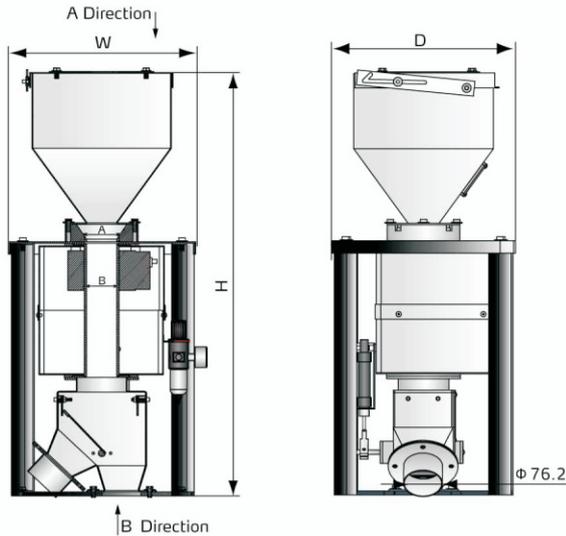
SMS series metal detecting separators are highly sensitive and accurate in detecting and separating metal grains, such as steel, iron, copper, aluminum, lead, tin, etc. It can be installed directly on injection molding machine or (extruders) hoppers to protect the screw of machine from the damage caused by hard metals. When it installed on the injection molding machine or on hopper of the extruder, material level sensor should be mounted on the hopper to prevent material blockage which affects machine testing.

■ Working Principle

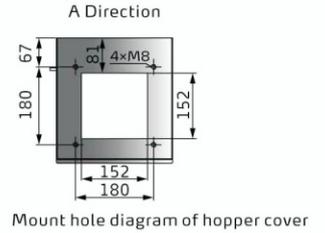


SMS Series

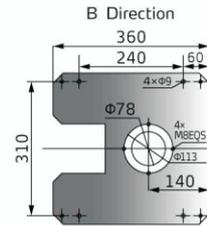
Outline Drawings



Floor Stand Dimensions



Mount hole diagram of hopper cover



Mount hole diagram for base

Specifications

Model	SMS-35	SMS-50	SMS-70
Maximum Throughput (L/hr)	600	1500	3000
Minimum Detectable Diameter (mm)	0.5	0.6	1.0
Metal detection coil inner diameter ΦA (mm)	35	50	70
Object detection passage inner diameter ΦB (mm)	28	43	61
Dimensions (mm) H x W x D	860 x 405 x 368	860 x 405 x 368	860 x 405 x 368
Weight (kg)	50	50	50

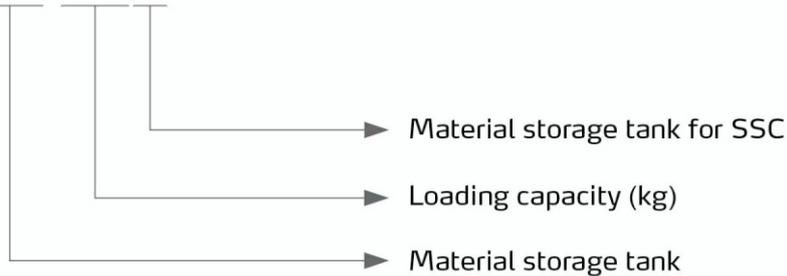
- Notes: 1) Testing result of maximum throughput is based on particles of 0.8kg/L in bulk density and 2~3mm in size.
 2) The minimum metal diameter is detected based on carbon steel testing standard.
 3) SMS-35/50 is suitable for free-flow plastic granules with a diameter ≤ 4 mm
 4) SMS-70 is suitable for free-flow plastic granules with a diameter ≤ 8 mm or regrind with a length ≤ 8 mm
 5) Power supply: 1 Φ , 115/230VAC, 50/60Hz.

We reserve the right to change specifications without prior notice.

MST Series

■ Coding Principle

MST-XXX(S)



■ Features

- SUS201 stainless steel storage tank.
- MST is a circular structure storage tank and brushed finishing.
- MST-S is a square structure storage tank and in glass finishing.
- Material storage tank with universal wheels for unrestricted movement.



MST



MST-S

■ Application

Mainly used for raw material storage, placed beside material room or IMM; Works with granulator to convey regrind material, ensuring instant reuse of recycled material.

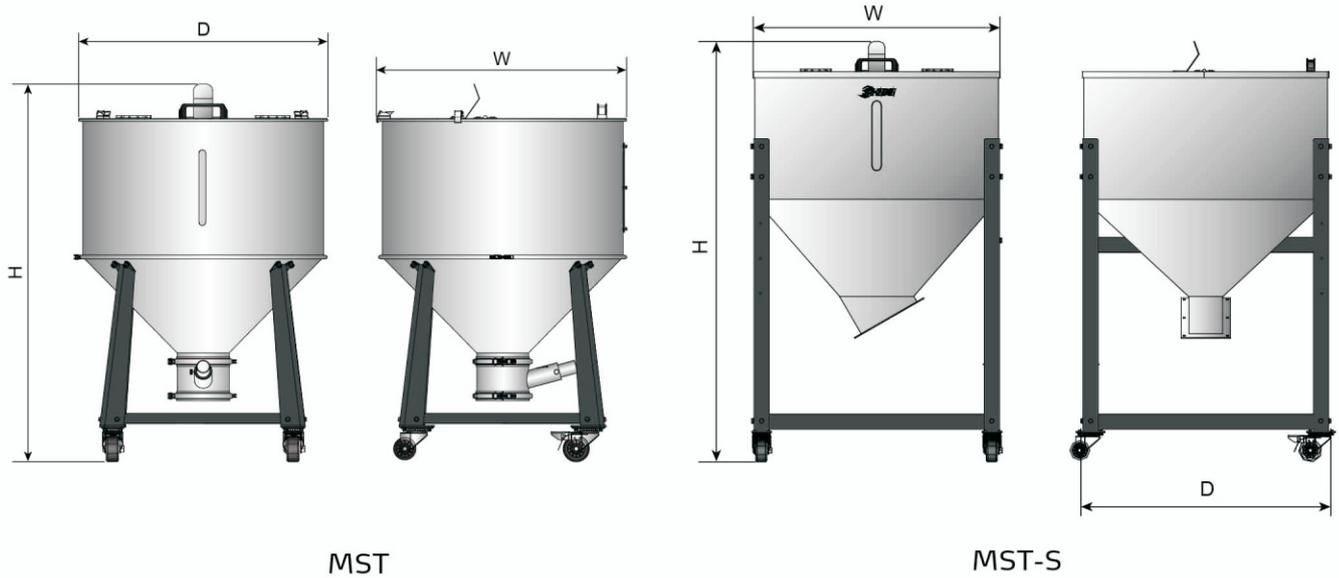
MST is outfitted with a 1.5" material suction box, with the option of the material suction box in various specs or material shut-off suction box.

■ Options

All material contacted surfaces of the material storage tank MST are polished, and add "P" at the end of the model code.

MST Series

Outline Drawings



Specifications

Model	Capacity (kg) *	Dimensions H × W × D (mm)	Weight (kg)
MST-50	50	1080×585×585	28.5
MST-100	100	1210×740×740	32.5
MST-200	200	1340×890×890	43.5
MST-500	500	2375×890×890	65.5

Model	Capacity (kg) *	Dimensions H × W × D (mm)	Weight (kg)
MST-100S	100	1180 × 615 × 615	52
MST-200S	200	1290 × 815 × 815	66
MST-300S	300	1540 × 930 × 930	80
MST-500S	500	1630 × 1240 × 1240	110

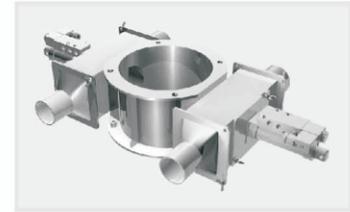
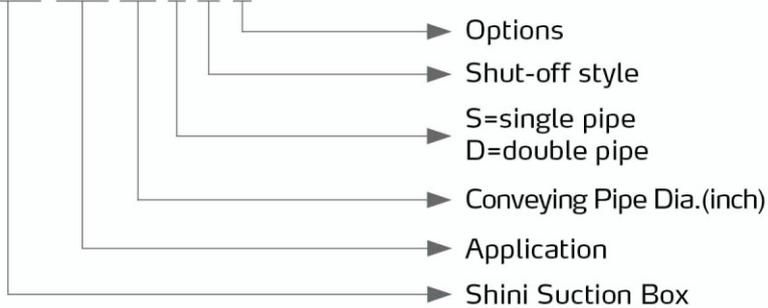
Notes: 1) "*" stands for above loading capacity is based on pellet material of 0.65kg/L (5.5lb/gal) in bulk density and 3-5mm(0.1-0.2inch) in diameter.

2) Special models can be customized.

SBU Series

■ Coding Principle

SBU-xxx-xx-x-V-x



SBU-160-63D-V

■ Features

- Special internal structure ensures smooth material conveying.
- Standard suction box with air-feeding hole, easy to use; shut-off suction box equipped with air feeding pipe to form closed conveying cycle.
- The suction box SBU-20/160 is made of Aluminum, with integrated design; The suction box SBU-50/100 is made of stainless steel.



SBU-20/160-S



SBU-20/160-D



SBU-20/160-S-V

■ Application

The suction box SBU-20/160 is installed at the bottom of drying tank or other storage devices, and the suction box SBU-50/100 is installed at the bottom of material storage tank that can work with negative pressure conveying system to convey materials. Standard suction box is applicable for short distance conveying, while the shut-off suction box, which is equipped with material shutting off function, can prevent material remaining in pipe, moisture regain and pipe blockage during long distance conveying.



SBU-50/100-D



SBU-50/100-S



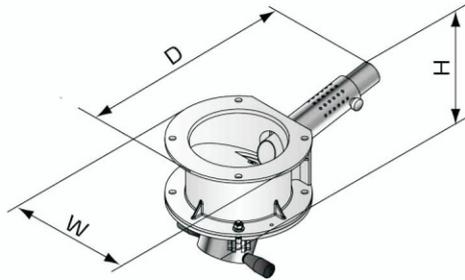
SBU-50/100-S-V

■ Options

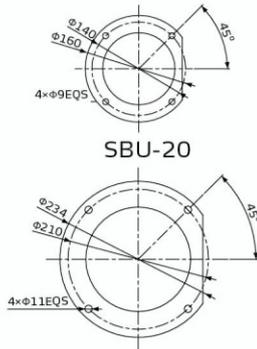
- Stainless steel is optional, add "S" at the end of the model code.
- If selecting stainless steel, parts contacting with raw material can be polished, add "P" at the end of model code.

SBU Series

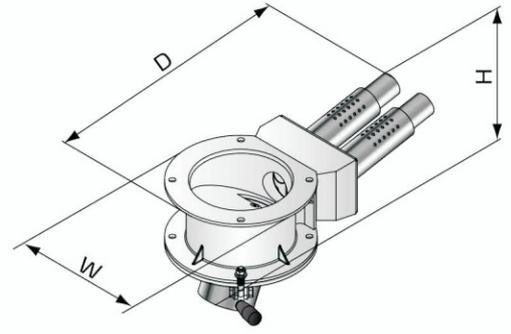
Outline Drawings



SBU-20/160-S



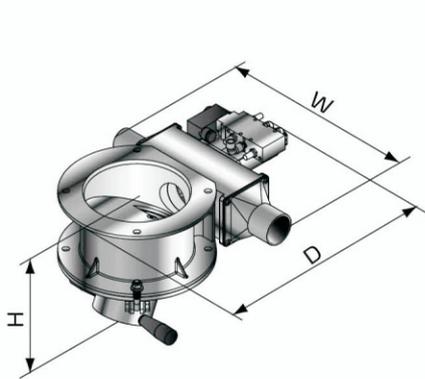
SBU-20
SBU-160



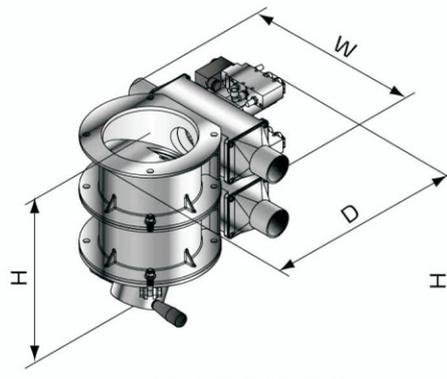
SBU-20/160-D

Model	H x W x D (mm)
SBU-20-38S	210x180x390
SBU-20-50S	210x180x390
SBU-160-38S	235x235x435
SBU-160-50S	235x235x450

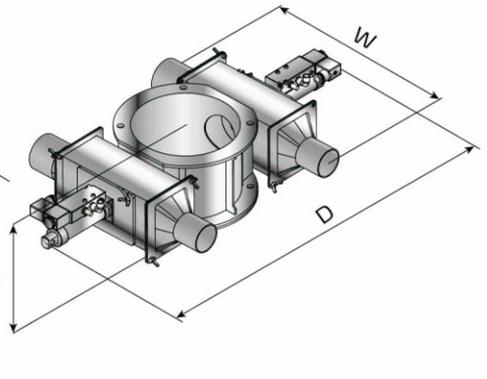
Model	H x W x D (mm)
SBU-20-38D	200x180x414
SBU-20-50D	200x180x414
SBU-160-38D	230x235x485
SBU-160-50D	230x235x480



SBU-20/160-S-V



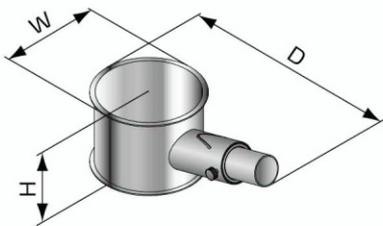
SBU-20/160-D-V



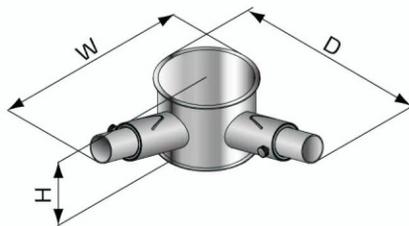
SBU-160-63D-V

Model	H x W x D (mm)
SBU-20-38S-V	200x330x370
SBU-20-50S-V	200x330x370
SBU-160-38S-V	230x330x440
SBU-160-50S-V	230x330x440

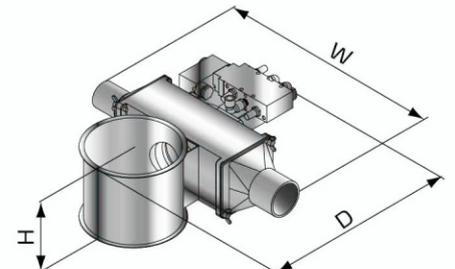
機型	H x W x D (mm)
SBU-20-38D-V	315x330x370
SBU-20-50D-V	315x330x370
SBU-160-38D-V	347x330x440
SBU-160-50D-V	347x330x440
SBU-160-63D-V	190x365x670



SBU-50/100-D



SBU-50/100-S



SBU-50/100-S-V

Model	H x W x D (mm)
SBU-50-38S	122x138x315
SBU-50-50S	122x138x315
SBU-100-38S	122x162x340
SBU-100-50S	122x162x340

Model	H x W x D (mm)
SBU-50-38D	122x315x315
SBU-50-50D	122x315x315
SBU-100-38D	122x340x340
SBU-100-50D	122x340x340

Model	H x W x D (mm)
SBU-50-38S-V	125x320x385
SBU-50-50S-V	125x320x385
SBU-100-38S-V	125x320x410
SBU-100-50S-V	125x320x410



■ Specifications

Collocated with SEHD

Model	SEHD-12-75	SEHD-100 and above
SBU	-20-38S	-160-38S
SBU	-20-50S	-160-50S
SBU	-20-38D	-160-38D
SBU	-20-50D	-160-50D
SBU	-	-160-63D

Collocated with SHD-U

Model	SHD-20U-120U	SHD-160U and above
SBU	-20-38S	-160-38S
SBU	-20-50S	-160-50S
SBU	-20-38D	-160-38D
SBU	-20-50D	-160-50D
SBU	-	-160-63D

Collocated with SDD

Model	SDD-160U/120H and below	SDD-230U/120H and above
SBU	-20-38S	-160-38S
SBU	-20-50S	-160-50S
SBU	-20-38D	-160-38D
SBU	-20-50D	-160-50D
SBU	-	-160-63D

Collocated with MST

Model	MST-50	MST-100-MST-200
SBU	-50-38S	-100-38S
SBU	-50-38D	-100-38D
SBU	-50-50S	-100-50S
SBU	-50-50D	-100-50D

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