



Dosing & Mixing

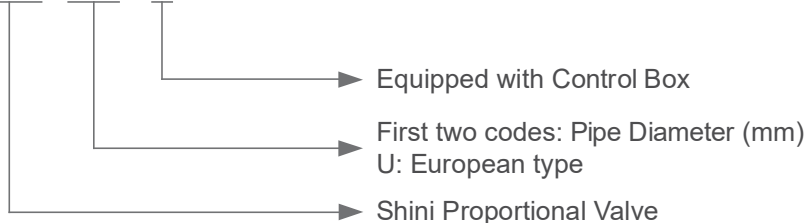
Proportional Valve



SPV-38U-C

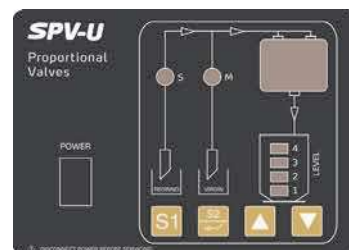
■ **Coding Principle**

SPV - xxU - C



■ **Features**

- European type design, classy appearance, easy installation and operation.
- Unique design of valve body, make 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.
- There is no need of ordering control box when working with SAL-U/UG series hopper loaders.
- Instant recycling of regrind materials to reduce production cost.
- Equipped with 1~4 levels working function selection, making material mixing more evenly.

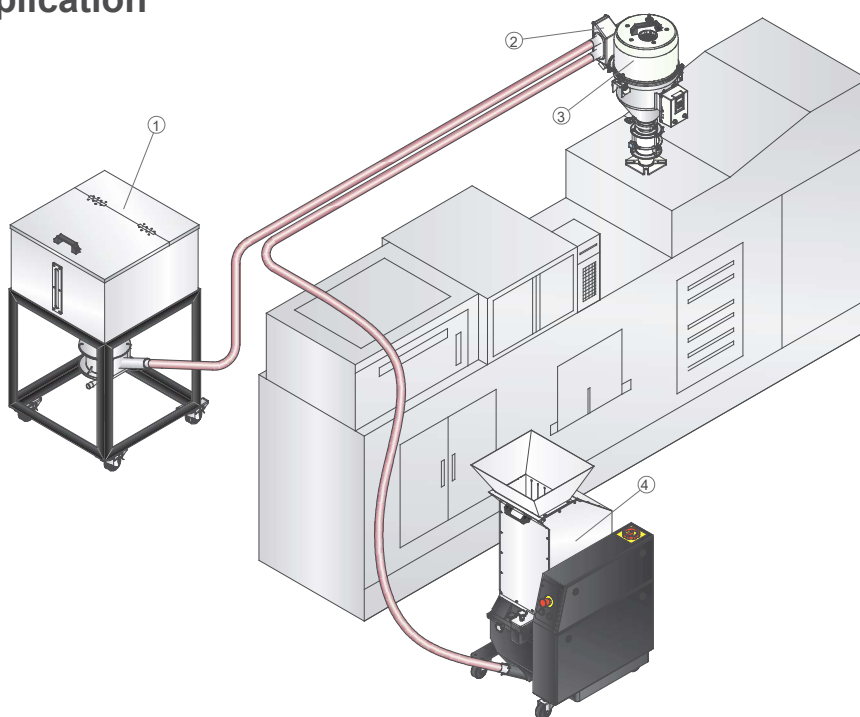


Control Panel

■ **Options**

- When applied in other conditions, control cabinet can be an option.

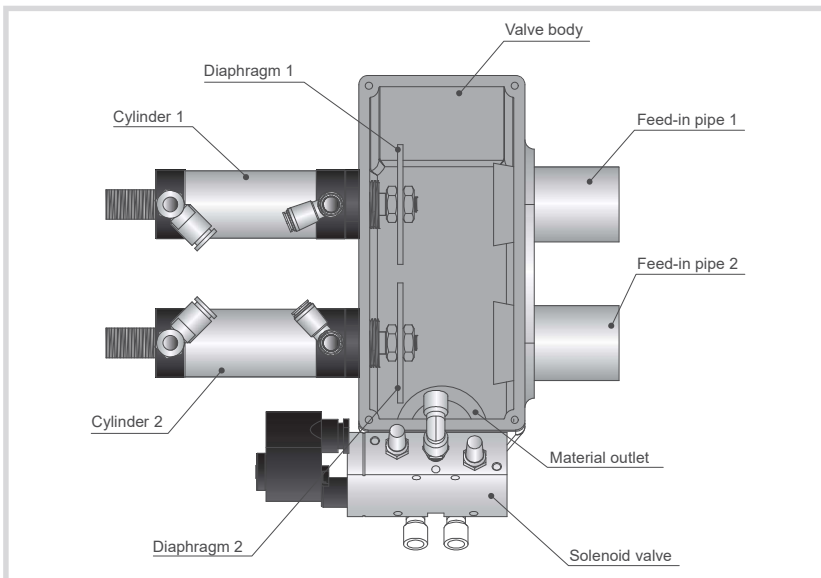
■ **Application**



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

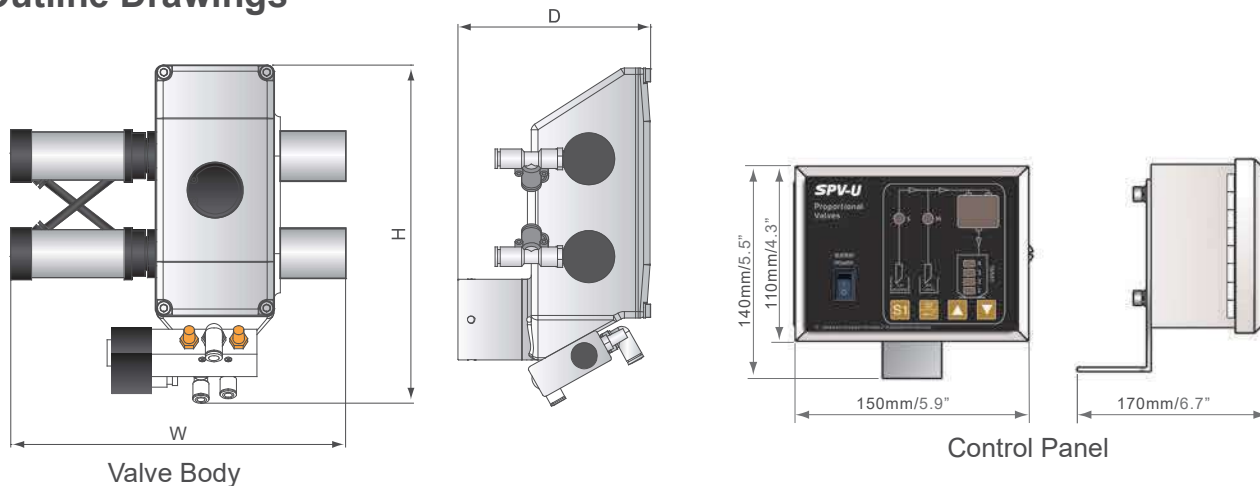
SPV-U Series

Working Principle



After material loading time and the proportion of secondary material have been set, the cylinder tank will control the feeding proportion of new materials and secondary materials in hopper by driving opening & closing and start time of conical diaphragm 1 and 2 so as to accomplish the proportioned mixing.

Outline Drawings



Specifications

Model	Compressed Air Pressure	Driven Means	Maximum Material Flow	Pipe Size (inch)	Dimensions H × W × D		Weight	
					mm	inch	kg	lb
SPV-38U-(C)	3kgf/cm ²	Cylinder	500kg/hr	1.5	270 × 260 × 150	10.6 × 10.2 × 5.9	3.5	7.7
SPV-50U-(C)	3kgf/cm ²	Cylinder	1500kg/hr	2	270 × 260 × 150	10.6 × 10.2 × 5.9	3.8	8.4

Notes:1) "C" stands for control cabinet, there is no need of control box when working with SAL-U loaders.

2) Above maximum passing rate is based on pellet material of 0.65kg/L(5.5lb/gal) in bulk density and 3-5mm/0.12~0.2inch in diameter.

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

We reserve the right to change specifications without prior notice.

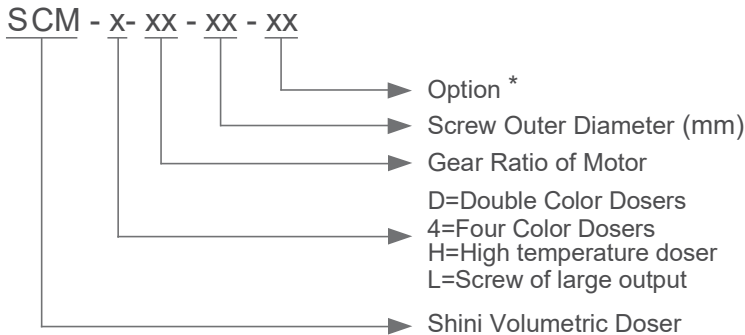
Volumetric Doser



SCM Single Color Doser

SCM Series

Coding Principle



Features

- Dosing screws are chrome plated for durability.
- Unit is comprised of standard modules for ease of cleaning, disassembly and interchangeability.
- Hopper magnets are equipped in standard base to avoid molding machine screw damage.
- External signals can be directly input to control box.
- The current mode can be recorded without interrupted by power failure.
- Compulsory material cleaning makes it easier to replace masterbatch.
- Applicable on extrusion machines, just need to make a few wire replacements.
- 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).
- Use brushless DC motor and free from maintenance.
- Both masterbatch blockage and overload can be detected, then machine will halt and sound an alarm.
- Based on customers demand, mold cycles can be set to add additives periodically so that micro-metering can be achieved.
- SCM-4 is standard equipped with a main hopper and a blender.
- Equipped with RS485 communication function (SCM-4 excluded).



Options

- For collocating with SHD-100~300 or SHD-160U~450U dryers, heavy base should be selected.
- Extended hopper should be picked when choosing heavy base.
- SCM-4 is capable of adding four kinds of masterbatch at most.
- High temperature doser SCM-H is optional for applying to PET high temperature situation; the water runs in its cooling part must be room temperature water.
- Blender is an option for customers to make materials evenly mixed.
- Main material hopper is optional equipment for customers to feed main material.
- Low level sensor can be opted to give an alarm when masterbatch is insufficient.
- Screws with diameter of 30mm/1.18inch can meet customers' requirements of large output.
- Optional 100kg/220lb base to satisfy maximum discharge volume(without mixing function).



SCM-H



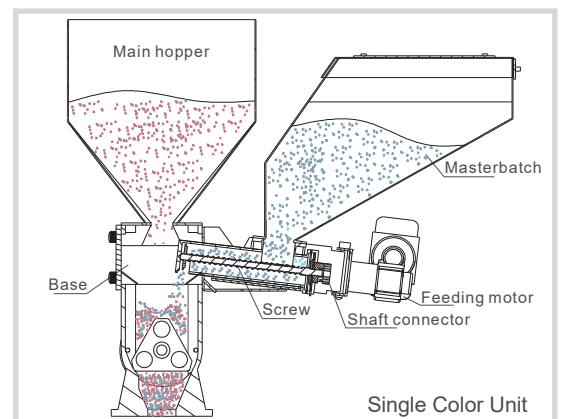
Heavy Base (optional)

Application

SCM 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 (0.47, 0.63, 0.79 or 1.18inch) in diameter to give a total of four models with output ranging from 0.1~110kg/hr (0.22~242.5lb). Double-color dosers 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.

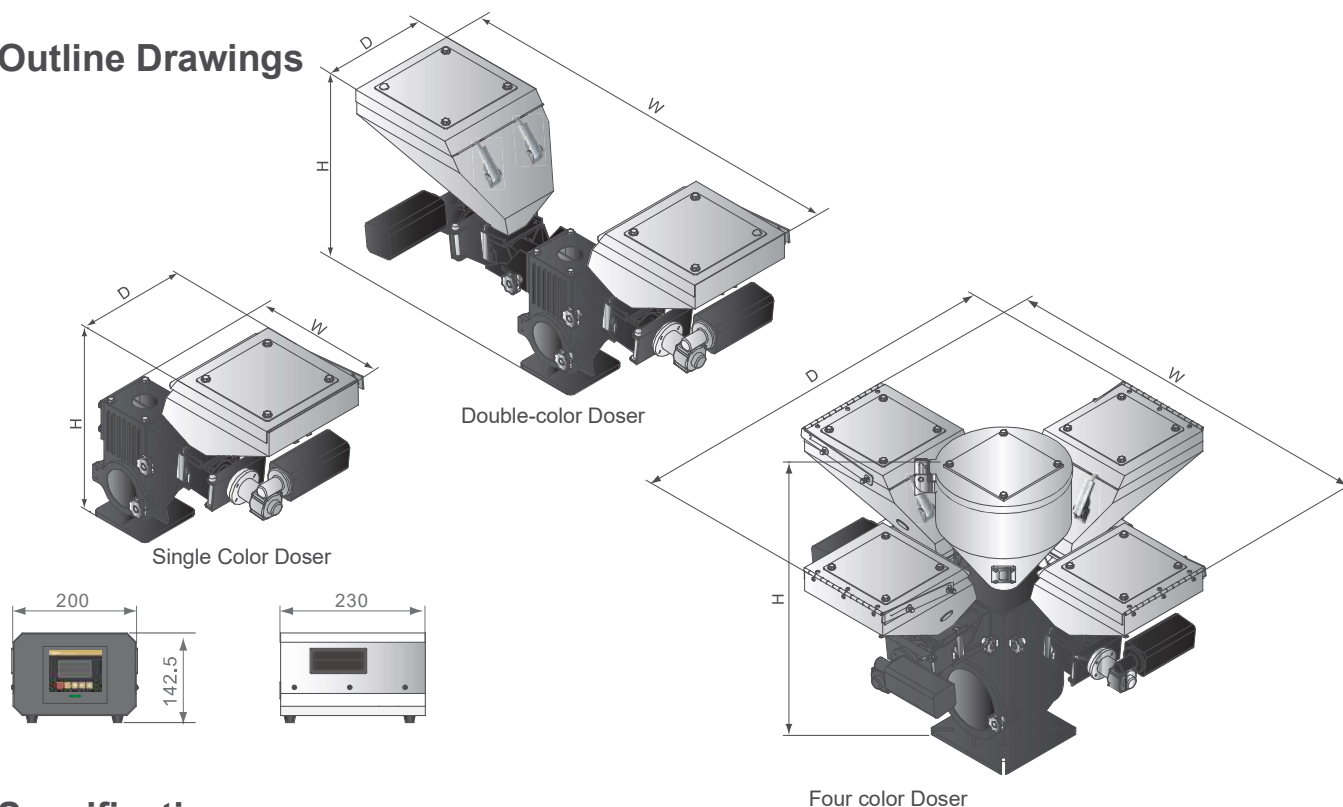
Working Principle

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 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	0.1~10	0.5~30	3~60	8~110	*	*	
Storage Hopper (L)	Standard	10	10	10	10	10	
	Option heavy-duty base	15	15	15	15	-	
Gear Ratio	38:1	38:1	38:1	38:1	38:1 / 38:1	38:1	
Main Material Hopper(L)	Optional(15)	Optional(15)	Optional(15)	Optional(15)	Optional(15)	Optional(15)	
Mixer	Optional	Optional	Optional	Optional	Optional	Standard	
Heavy-duty Base	Optional	Optional	Optional	Optional	Optional	-	
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
		inch	24	24	24	24	41
D	mm	335	335	335	335	410	
	inch	13	13	13	13	16	
Weight	kg	22	22	22	22	34	
	lb	48.5	48.5	48.5	48.5	75	

- 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) For additional mixer, add "MS" at the end of 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 of above models are base 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.

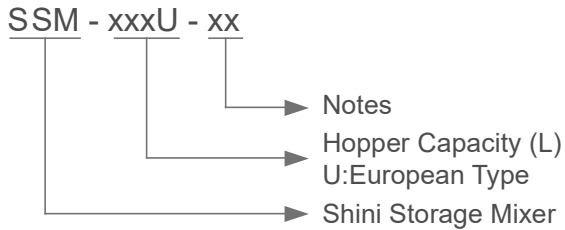
Storage Mixer



SSM-160U

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.
- 0~300 hours auto-stop function.
- Equipped with main power switch and safety interlock protective device to ensure operator's safety and no damage to the machine.
- SSM-U has height adjustable floor stand and braking castors as standard accessories for easy movement.

■ Options

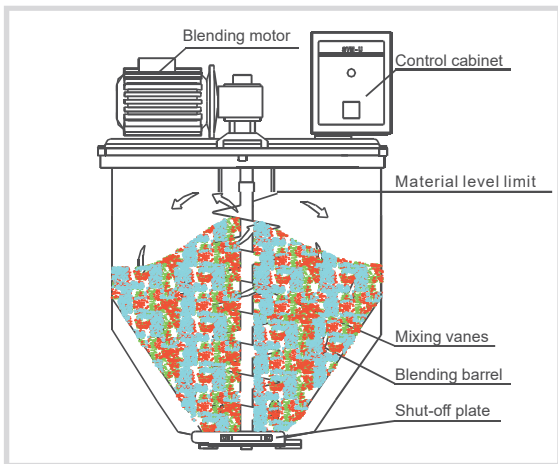
- Pneumatic discharge plate is an optional accessory for mounting at discharge outlet.

■ 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.

■ Working Principle

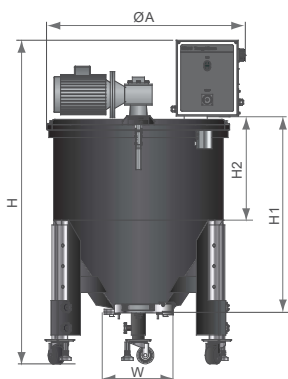
To achieve the aim of material mixing, screw blades are used to generate vortex. Materials are sucked towards mixing screws at the center of hopper bottom by vortex, then materials whirl upward to the top and fall down so that the evenly mixing can be fulfilled in a short period.



Signals from the control cabinet will be sent to blending motor which drives the blending screw to start material blending. Then material conveyed along the cylinder up to the top is evenly spread in the blending barrel. This process mixes material evenly in a short time, saving energy. After blending, draw open the shut-off plate to discharge the material.

■ **Outline Drawings**

■ **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	

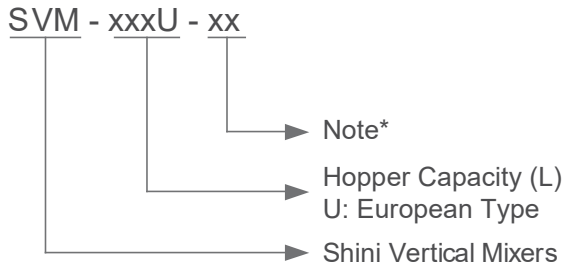
- Notes: 1) "*" stands for the optimal mixing time at full load is about 15min.
 2) Max. noise level is 70dB (A).
 3) Max. mixing capacity is tested based on continuous processing material of 0.65kg/L(5.5lb/gal) in bulk density and 2~3mm/0.08~0.12inch in size.
 4) Power 3Φ, 230 / 400 / 460 / 575VAC, 50 / 60Hz.

Vertical Batch Mixer



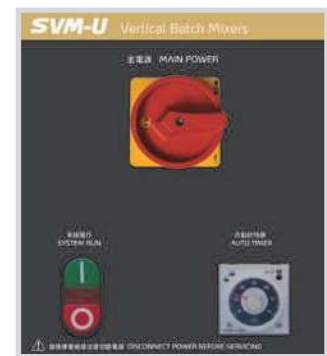
SVM-300U

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.
- Function of feeding plus mixing simultaneously can save time significantly.
- 0~30 min auto-stop function.
- Equipped with main power switch and safety interlock protective device to ensure operator's safety and no damage to the machine.



Control Panel

Options

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

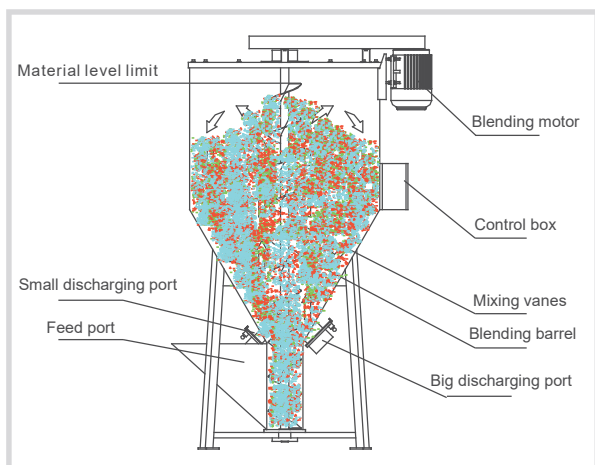
Application

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

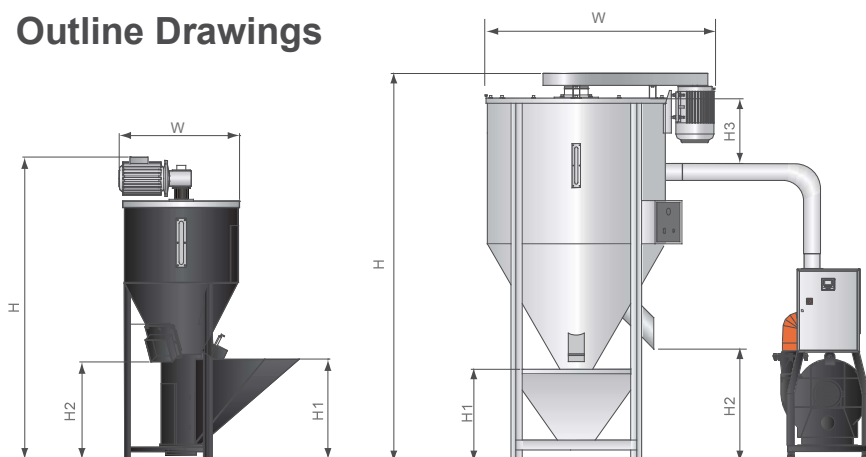
To achieve the aim of mixing material, screw blades are used to generate vortex. Materials are sucked towards mixing screws at the center of hopper bottom by vortex, then materials whirl upward to the top and fall down so that the evenly mixing can be fulfilled in a short period.

SVM-U Series



Signals from the control cabinet is sent to blending motor which drives the blending screw to start material blending. Then material are conveyed along the cylinder up to the top is evenly spread in the blending barrel. This process mixes material evenly in a short time and saves energy. After blending, pull open the shut-off plate to discharge the material.

Outline Drawings



SVM-300U and below

SVM-1000U(-HA) and above

Model	Pipe diameter (inck)	H3 (mm)
SVM-1000U-HA-700	4	860
SVM-2000U-HA-1000	5	875
SVM-3000U-HA-1500	6	885
SVM-4000U-HA-2000	8	915
SVM-6000U-HA-3000	8	915
SVM-10000U-HA-4000	10	1600

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	1620	1700	2600	2850	3200	3200	3800	4300
		inch	63.8	67	102	112.2	126	126	149.6	169.3
	H1 (mm)	mm	553	583	710	720	770	770	710	780
		inch	21.8	23	28	28.3	30.3	30.3	30.3	30.7
	H2 (mm)	mm	557	528	650	650	650	650	650	650
		inch	21.9	20.8	25.6	25.6	25.6	25.6	25.6	25.6
W (mm)	mm	955	1050	1200	1550	1680	1880	2050	2350	
	inch	37.6	41.3	47.2	61	66	74	80.7	92.5	
Weight	kg	150	200	455	750	890	1000	1270	1700	
	lb	331	441	1003	1653	1962	2205	2800	3748	

Notes: 1) Max. noise level is 70dB (A).

2) 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.

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

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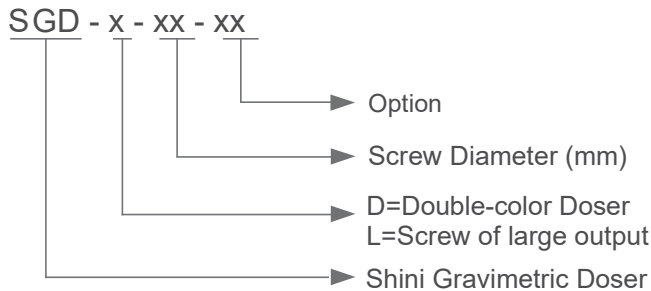
Gravimetric Doser



SGD-12

SGD Series

Coding Principle

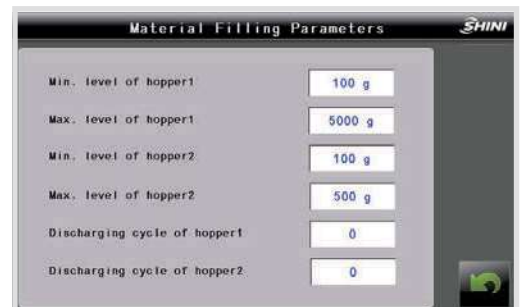


Features

- 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)



Calculation Mode

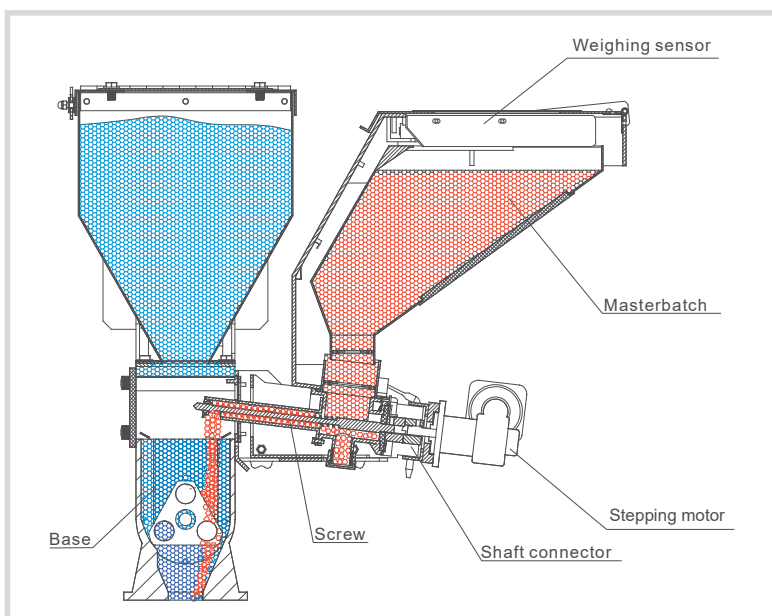


Recipe Edit Menu

Options

- Venturi Loaders are optional.
- For collocating with SHD-100~300 or SHD-160U~450U 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



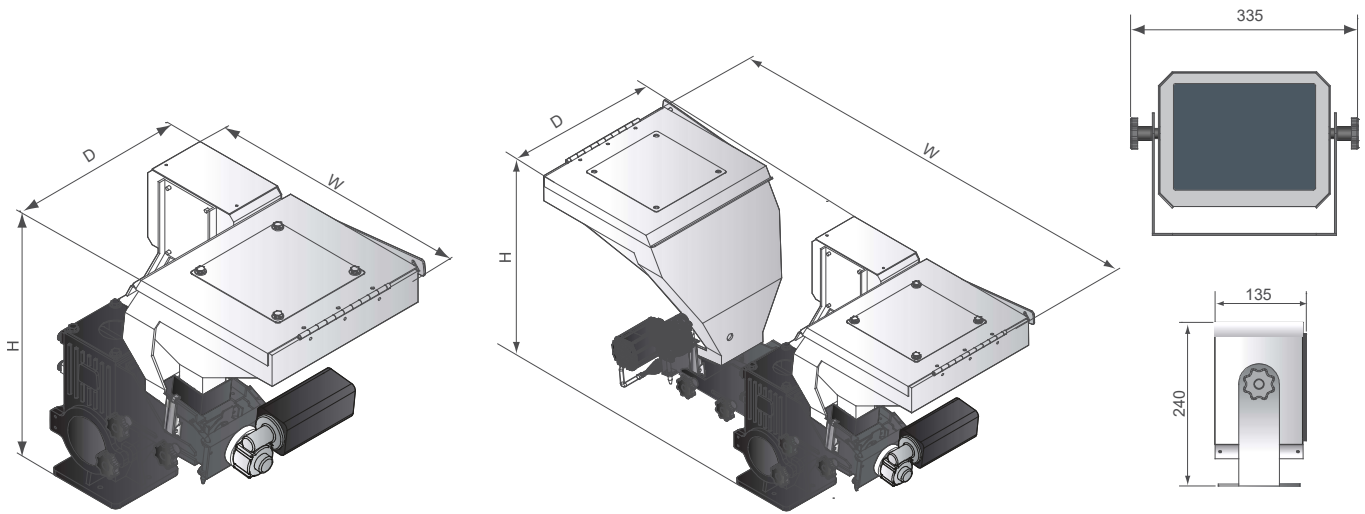
Signals from control cabinet are sent to motor, then motor begins to work, the rotary force is transferred to dosing screw through shaft connector. Masterbatch in hopper falls into the groove of conveying screw, and then be taken to hopper base by rotating action of the screw. Weighing sensor is adopted 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-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	Optional (15)				
	gal	Optional (4.0)				
Mixer	Optional					
Heavy-duty Base	Optional					
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) 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.

We reserve the right to change specifications without prior notice.

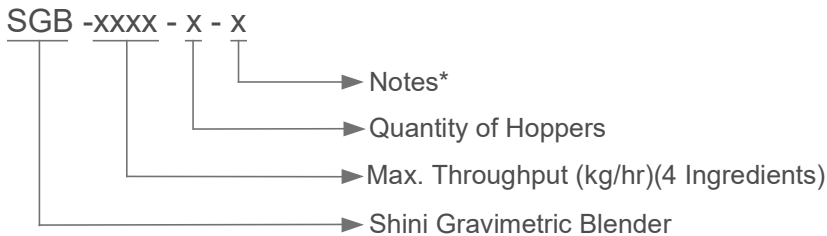
Gravimetric Blender



SGB-200-4

SGB Series

Coding Principle



Notes:*
CE=CE Conformity

Features

Standard configuration

- The microscale metering accuracy is $\pm 0.1\%$ when all materials are blended through gravity.
- Auto calibration function which is performed every time after material weighting ensures best proportioning accuracy.
- Up to 100 recipes can be stored for future use.
- Have alarm history record function.
- SGB-600 and models below are directly mounted on machines.
- For SGB-1200 and models above, floor stand is the standard supply (equipped with floor stand, material storage tank and pneumatic discharge valve).
- Adopt Ethernet communication function to realize centralized monitoring.
- Equipped with automatic suction control function.

Accessory option

- Hopper low material level sensor is optional for advance warning when lacking materials.
- Floor stand, pneumatic discharge valve, storage bin and suction box should be equipped for floor mounting. (Applicable for SGB-600 and models below)
- Vacuum generator SVG and central hopper receiver SHR-U-ST are optional.
- Microscale metering valve is optional for SGB-40/200/600 to meter materials with proportion of 0.2%-0.5%.
- Special material metering valve is optional for metering sheets or irregular materials whose diameters are within 12*12*12mm/0.47*0.47*0.47inch.
- Optional data-collection function can read actual additive proportion,output,all kinds of materials'total amount and output rate of every lot of virgin or recycling material, masterbatch and additives.
- Function of recycled material auto-compensation is optional (recycling hopper should option with low level switch).Aberration compensation can be automatically calculated according to the discharging amount of recycled materials.

With Respect to Batch Capacity:

Ratios of Masterbatch and Additive are calculated with respect to Batch Capacity.

For example: Batch=1000g/2.2lb, Hopper 1=Auto calculated, Hopper 2=40%, Hopper 3=3%, Hopper 4=2%.

Thus real weights are:

- * Hopper 1 (Virgin A)=1000g x (100%-40%-3%-2%)=550g.
- * Hopper 2 (Virgin B)=1000gx40%=400g.
- * Hopper 3 (Masterbatch)=1000g x 3%=30g.
- * Hopper 4 (Additive)=1000g x 2%=20g.

Under this mode, weight of Masterbatch and Additive will not fluctuate with main Virgin component (Hopper 1).

With Respect to One (1) Virgin Component:

Ratios of Masterbatch or Additive are calculated with respect to Virgin Component (Hopper 1):

For example: Batch=1000g/2.2lb, Hopper 1=Auto calculated, Hopper 2=40%, Hopper 3=3%, Hopper 4=2%. Thus real weights are:

- * Hopper 1 (Virgin)=1000gx(100% - 40%)=600g.
- * Hopper 2 (Regrind)=1000gx40%=400g.
- * Hopper 3 (Masterbatch)=600gx3%=18g.
- * Hopper 4 (Additive)=600gx2%=12g.

Under this mode, weight of both Masterbatch and Additive will be adjusted automatically depending on the availability of regrind (Hopper 2). Take above as example: As long as Regrind in Hopper 2 is full, amount of Masterbatch (Hopper 3) and Additive (Hopper 4) will be always 18g/0.04lb and 12g/0.012lb respectively. But, if Regrind is not available or its level is low, Virgin component in Hopper 1 will replenish the difference automatically, therefore real weights of Masterbatch and Additive will become:

- * Hopper 3 (Masterbatch) = 1000g x 3% = 30g.
- * Hopper 4 (Additive) = 1000g x 2% = 20g.

Under this mode, if compensational value is set to 0%, weight of both Masterbatch and Additive will be adjusted proportionally against real weight of Virgin component. And, if the value is set to >0.01% or <0.01%, weight of both Masterbatch and Additive will be adjusted proportionally against real weight of both Virgin and Regrind.

With Respect to Two (2) Virgin Components:

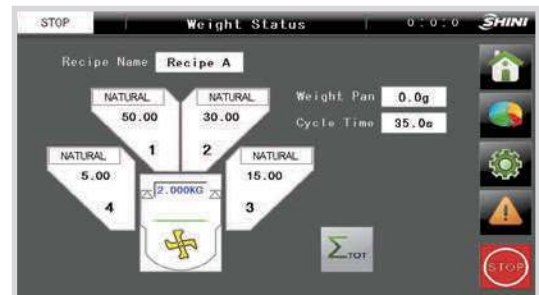
Ratios of Masterbatch or Additive are calculated with respect to Two (2) Virgin components (i.e. Virgin A and Virgin B):

For example: Batch=1000g/2.2lb, Hopper 1=Auto calculated Hopper 2=40%, Hopper 3=3%, Hopper 4=2%.

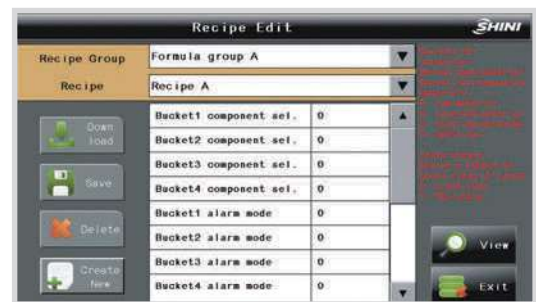
Thus real weights are:

- * Hopper 1 (Virgin A)=1000g x(100%-40%)=600g.
- * Hopper 2 (Virgin B)=1000g x40%=400g.
- * Hopper 3 (Masterbatch)=(600g+400g)x3%=30g.
- * Hopper 4 (Additive)=(600g+400g)x2%=20g.

Under this mode, weight of both Masterbatch and Additive will fluctuate with both two Virgin components (Hopper 1 and Hopper 2).



Weight Status



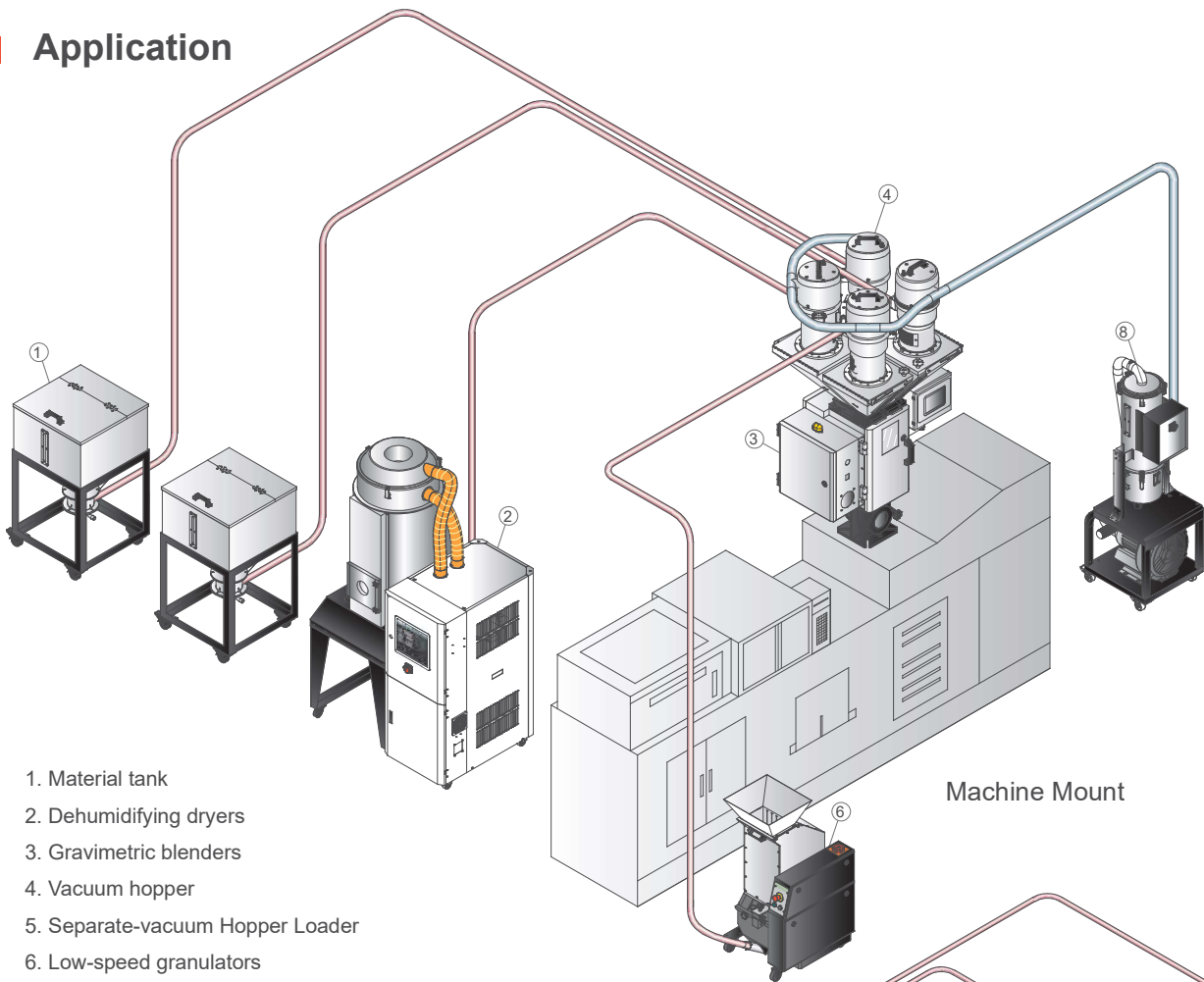
Recipe Edit



Feeding monitor

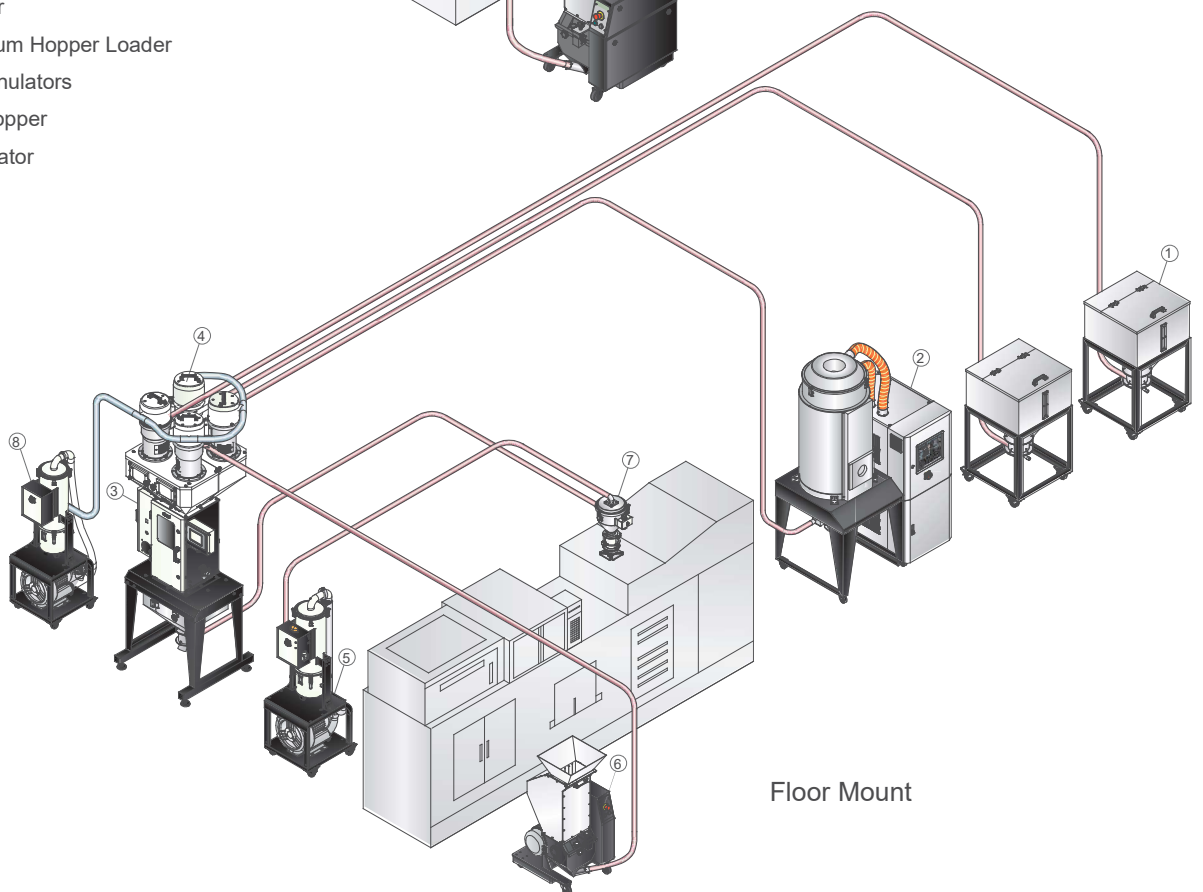
SGB Series

Application



Machine Mount

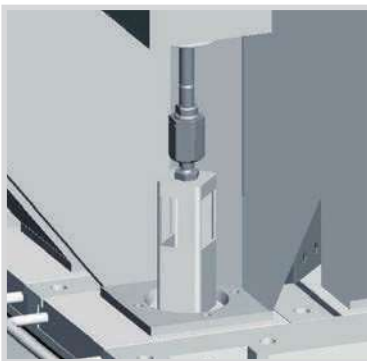
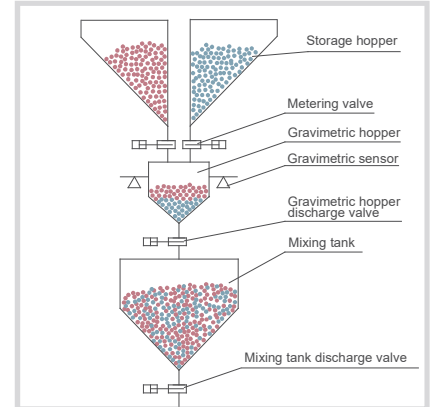
1. Material tank
2. Dehumidifying dryers
3. Gravimetric blenders
4. Vacuum hopper
5. Separate-vacuum Hopper Loader
6. Low-speed granulators
7. Photosensor hopper
8. Vacuum Generator



Floor Mount

Working Principle

When machine starts working, hopper 1 starts feeding on the basic calculation of set weight and unit time feeding of metering valve. The valve will be closed after feeding time and then gravimetric sensor will start work. Within the error range, the machine will go to hopper 2, and then in succession hopper 3, until all the hoppers finish feeding. After feeding, materials will fall into the mixing tank and be blended until reaching the time limit. Manually open the shut-off plate or automatically open the pneumatic discharge valve to let the material fall into the injection molding machine or storage tank.

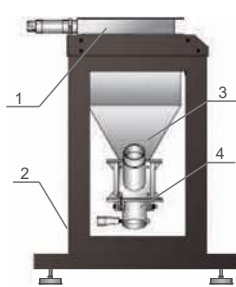
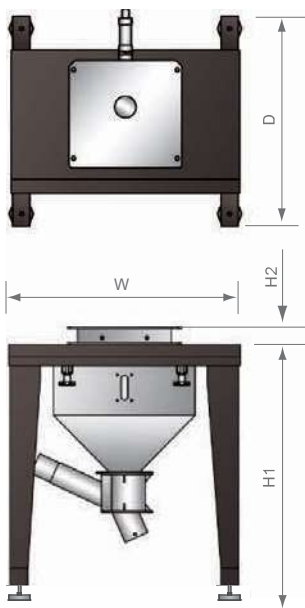


Vertical Cone-dosing of SGB-40



Vertical Cone-dosing of SGB-200 and Models above

Options



1. Pneumatic discharge plate
2. Floor stand
3. Storage hopper
4. Suction box

Floor Stand Assembly



SHR-U-ST

SGB Series

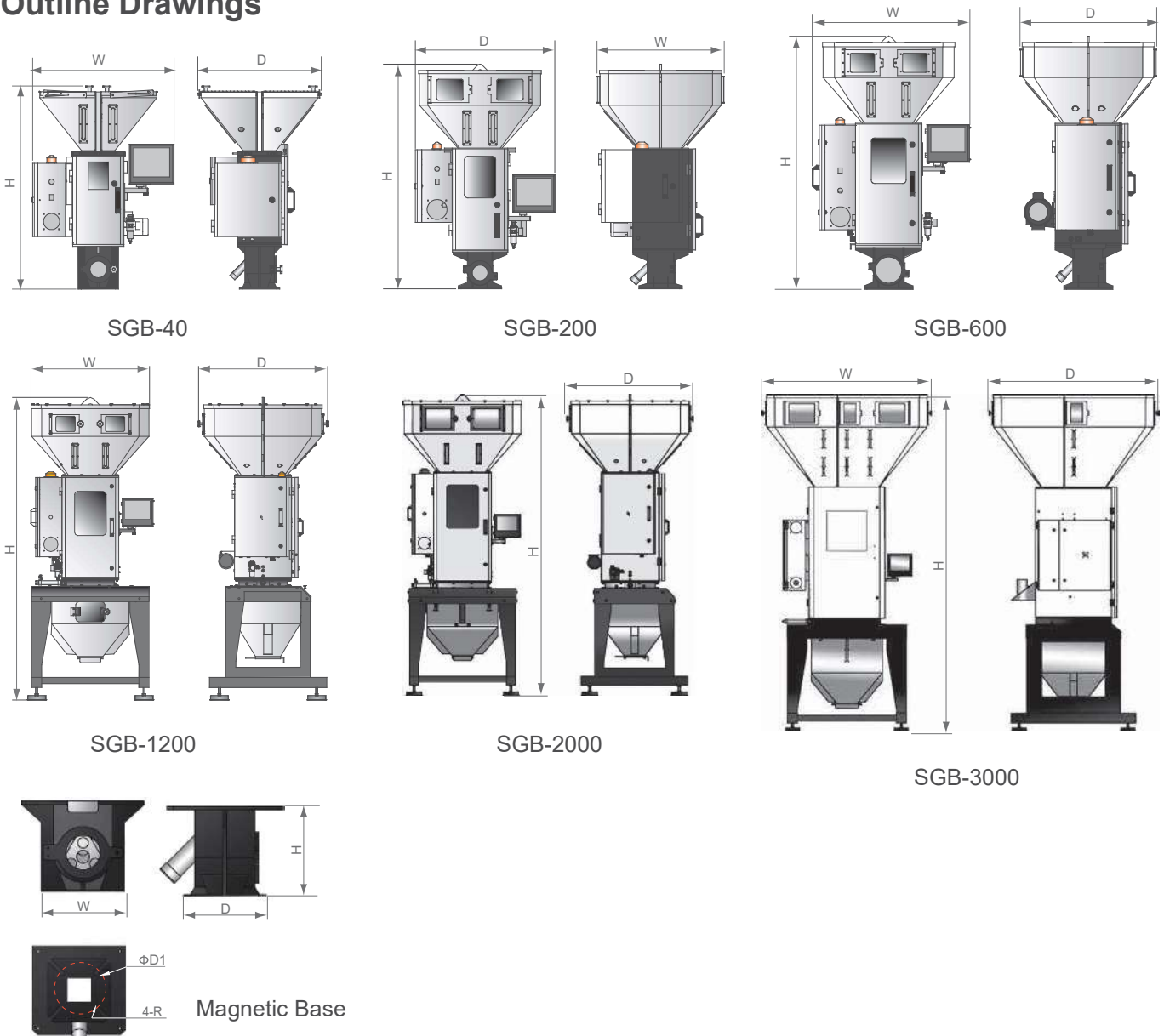
Specifications of SVG



Model	Vacuum generator	Power (kW)	Central hopper receiver	Hopper capacity		Transporting pipe(inch)	Suction pipe (inch)
				L	gal		
SGB-40	-4 SVG-1HP	0.75	4×SHR-3U-ST	3	0.79	1.5	2
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
	-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
	-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
	-6 SVG-10HP	7.5	6×SHR-36U-ST	36	9.5	2	2.5
	-4 SVG-10HP-D	7.5	4×SHR-36U-ST	36	9.5	2	2.5
SGB-3000	-8 SVG-10HP-D	7.5	8×SHR-36U-ST	36	9.5	2	2.5
	-6 SVG-20HP-D	13	6×SHR-48U-ST	48	12.7	2.5	3
	-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) Power: 3Φ, 400VAC, 50Hz.

Outline Drawings



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	220×220×244×160×65	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	-	-	-
Movable 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 Machine Mount	kg	115	135	160	-	-	-
	lb	254	298	353	-	-	-
Weight Floor Mount	kg	135	170	220	400	500	850
	lb	298	375	485	882	1102	1874

Specifications

Model		Ingredients	Main metering valve	Secondary metering valve	Largest throughput		Mixing Motor Power (kW)	Max. Output	
					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 particles 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 further discuss if the material is not sure.

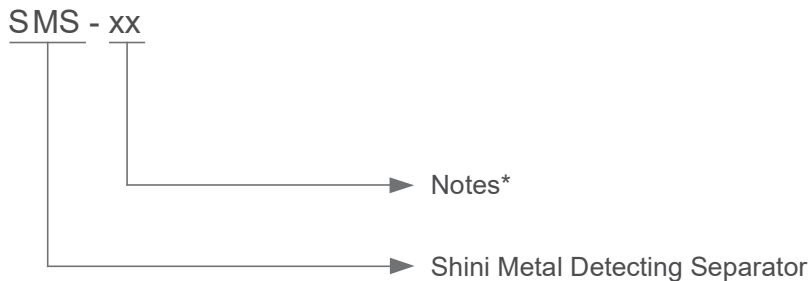
- The main metering valve is suitable for proportion not lower than 5% and raw material of even particles or recycled materials of even particles whose diameters are within 6*6*6mm/0.24*0.24*0.24inch.
- The secondary metering valve is suitable for proportion of 0.5%~5% and master batch of even particles or additives whose diameters are within 4*4*4mm/0.16*0.16*0.16inch.
- Microscale metering valve is optional for proportion of 0.2%~0.5% and master batch of even particles or additives whose diameters are within 4*4*4mm/0.16*0.16*0.16inch.
- Special material metering valve is suitable for sheets and irregular materials whose diameters are within 12*12*12mm/0.47*0.47*0.47inch.
- Mixing and ratio deviation refers to the difference between the setting percent and actual percent of each group. The microscale metering accuracy can reach to ±0.1%.
- Come with a set of secondary metering valves for use when replacing recipe.
- Three-phase supply is adopted in the blending motor.

Metal Detecting Separator



SMS

Coding Principle



Notes:*

CE=CE Conformity

Features

Standard configuration

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

Accessory option

- Specific size of hoppers and floor stands can be customized to meet any requirements.



Metal Detecting Separator

Application

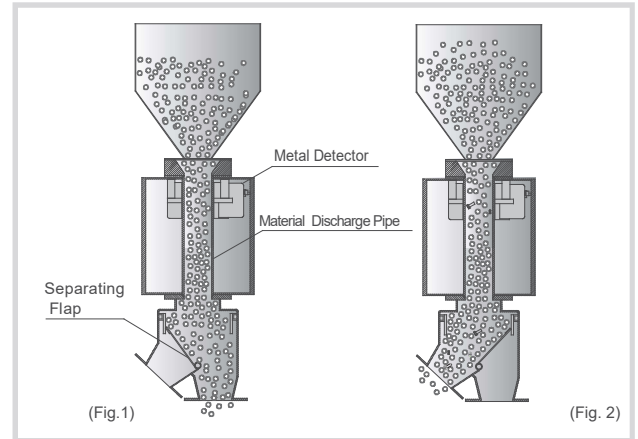
SMS series metal detecting separators are highly sensitive and accurate in detecting and separating metal grains, such as steel, iron, copper, aluminum, lead, tin, etc. Its principle is when metal impurities passing through it, electrical detector can send a signal to control board to open the valve to discharge the impurity materials. Pneumatic discharging system takes little space and ensures good performance. 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. Its processing capacity is ranging from 600L/hr(159gal/hr) to 3,000L/hr(792.5gal/hr) to meet any specific requirements.

SMS Series

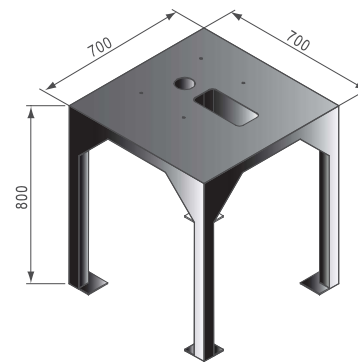
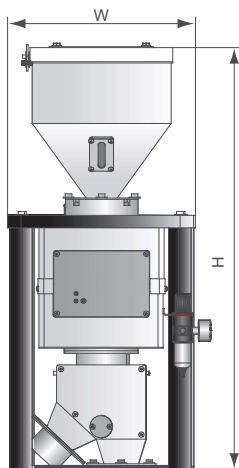
Working Principle

Material discharge pipe has a ring-type metal detector sleeved on and when material with no metal impurities passing through it, no signal will be sent out from the detector to activate the separating flap from its standby position. Thus material will flow out via the passage showed in Fig. 1.

However when material with metal impurities passing through it, signal will be sent out from the detector to move the separating flap to the other position. Thus material will flow out via the passage showed in Fig. 2.



Outline Drawings



Floor Stand Dimensions

Specifications

Model		SMS-35	SMS-50	SMS-70
Maximum Throughput	L/hr	600	1,500	3,000
	gal/hr	159	396	793
Minimum Detectable Diameter	mm	0.5	0.6	1.0
	inch	0.02	0.02	0.04
Material outlet pipe diameter	mm	35	50	70
	inch	1.38	1.97	2.76
Dimensions H × W × D	mm	860 × 405 × 368	860 × 405 × 368	860 × 405 × 368
	inch	33.9 × 15.9 × 14.5	33.9 × 15.9 × 14.5	33.9 × 15.9 × 14.5
Weight	kg	50	50	50
	lb	110	110	110

Notes: 1) Testing result of maximum throughput is based on particles of 0.8kg/L(6.7lb/gal) in bulk density and 2~3mm/0.12~0.2" in size.

2) The minimum metal diameter is detected based on carbon steel testing standard.

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

We reserve the right to change specifications without prior notice.

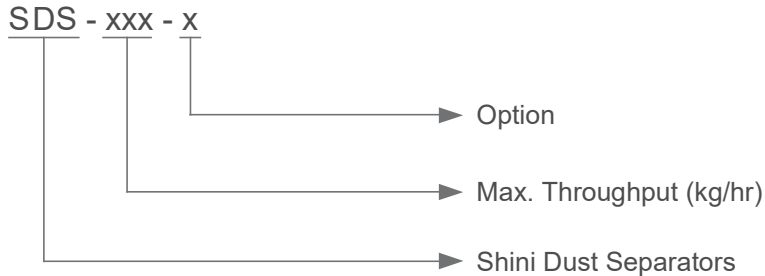
Dust Separators



SDS-500

SDS Series

■ Coding Principle



■ Features

- Air inlet is designed for regulation of air flow.
- Easily removed, installation and operation are also convenient.
- All surfaces in contact with material are made of stainless steel to ensure no material contamination.
- Equipped with rotary speed adjustable motor to adjust feeding amount according to actual demands.
- The static eliminator quickly neutralizes static electricity on the surface of material.
- The material suction blower is protected from dust by the easy-maintenance air filter and dust collection barrel.
- SDS-500 has alarm indicator for quick fault indicating.
- SDS-500 has material loading blower and photosensor hopper to perform automatic material loading.
- The efficiency of dust separating can reach 80%.



SDS-100

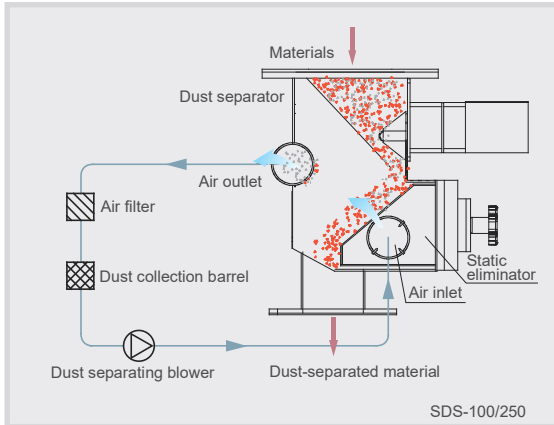
■ Options

- SDS-100/250 can optionally collocate with auto loaders to realize the automatic material conveying.
- SDS-500 can optionally collocate with storage tank (Include level motor and suction box)
- For model with polishing inside dust separator, add "P" at the end of the model code.

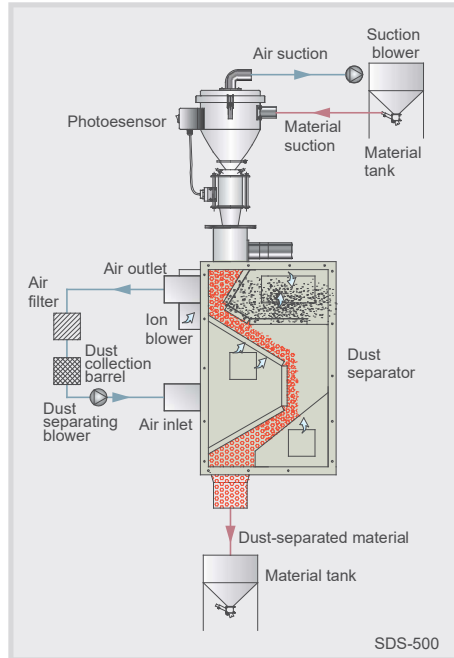
■ Application

SDS is suitable for powder removing of various materials, such as PET, PA, PC etc. SDS-100/250 is only used for powder removing of virgin materials, and SDS-500 is also used for granule processing. Pre-processing (vibrating screen, screen) is suggested before processing to reach optimal powder removing. When materials requiring closed-loop after dried in abnormal temperature, please make a special request.

Working Principle

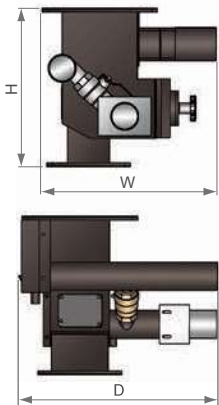


High pressure air with positive and negative ions produced by static eliminator will be blown into the machine to pass through material board to eliminate and remove static's and dust from the material. Dust separated from the material will be removed to dust collecting barrel, leaving clean and static-free material to fall into material storage tank.



Turn on the main switch and system starts to work. Materials are loaded into the machine through photosensor hopper. Statics in material will be eliminated by ion blower and dusts would be blown into filter by hi-pressure blower through air outlet. Impurities like dusts fall into dust collecting barrel and are blown into main body of machine with filtered air. At last, materials which have been dust-separated will load to material storage tank. A dust separating circle is finished like this.

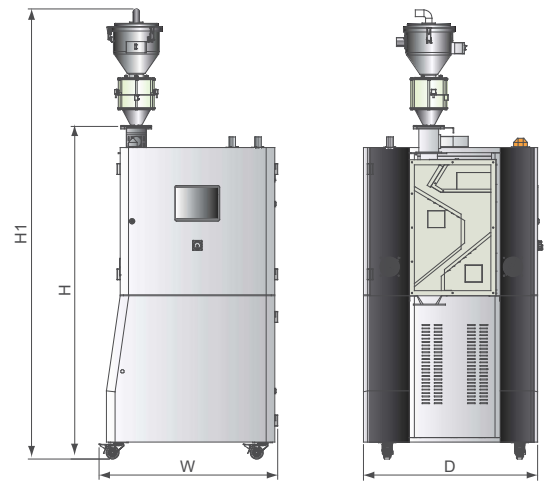
Outline Drawings



SDS-100/250



Cyclone Dust Collection Barrel



SDS-500

Specifications

Model	Conveying Blower (kW) (50 / 60Hz)	Dust Separating Blower (kW) (50 / 60Hz)	Feeding hopper	Max. Throughput (kg/hr)	Suction Box	Material Tank	Dimensions (mm)		Weight (kg)
							H(H1) × W × D		
SDS-100	N / A	0.55	N / A	100	N / A	N / A	290 × 320 × 360		75
SDS-250	N / A	0.55	N / A	250	N / A	N / A	460 × 415 × 450		200
SDS-500	1.5	2.2	SHR-12U-E	500	Option	Option	1960(2550) × 1050 × 1060		381

- Notes: 1) Max. output capacity is based on the test criteria of continually processing pellet of 2~3mm in dia. and 0.65kg/L in bulk density.
 2) SDS-500 applicable to pellet dedusting and if for processing regrind, the output will be just around 60% of the normal output.
 3) Power supply: 3Φ, 230 / 400 / 460 / 575VAC, 50 / 60Hz.