SAL-810/820/830G

"Standard" Separate-vacuum Hopper Loader

Date: May, 2022

Version: Ver.B





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1. General Description



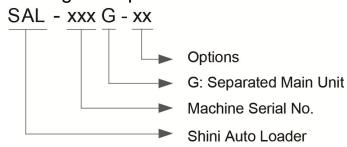
Please read through this operation manual before using and installation to avoid damage of the machine and personal injuries.



Picture 1-1:SAL-810G&SMH-6L



1.1 Coding Principle



1.2 Features

- I Microprocessor for ease of use and has multiple alarm indicators.
- I Motor overload protector ensures long service life of motor.
- I Audible material shortage alarm.
- I Filter designed for easy cleaning and has filter status checking window for easier monitor of filter condition.
- I RS485 communication interface.
- I SPV-U and SBU can be controlled



All maintenance work should be carried out by a person with technical training or corresponding professional experience. The manual contains instructions for both operating and maintenance. Chapter 6 contains maintenance instructions for service engineers. Other chapters contain instructions for the daily operator.

Any modifications of the machine must be approved by SHINI in order to avoid personal injury and damage to machine. We shall not be liable for any damage caused by unauthorized change of the machine.

Our company provides after-sales service. Should you have any problem during using the machine, please contact the company or the local vendor.

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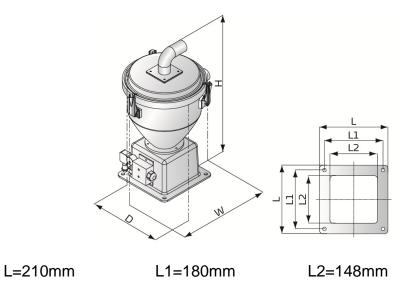
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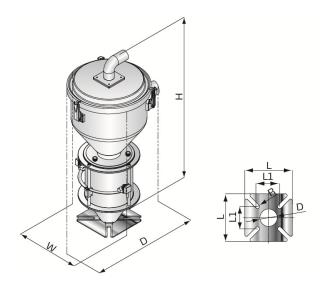
1.3 Technical Specifications

1.3.1 External Dimension

SMH



SVH

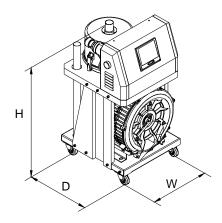


Picture 1-2: External Dimension 1

Models	L(mm)	L1(mm)	D(mm)	R(mm)
SVH-6L	150	70	55	6.5
SVH-12L	180	80	55	6.5



SAL-810G/820G/830G (Main controller)



1.3.2 Specification

Table 1-1: Specification

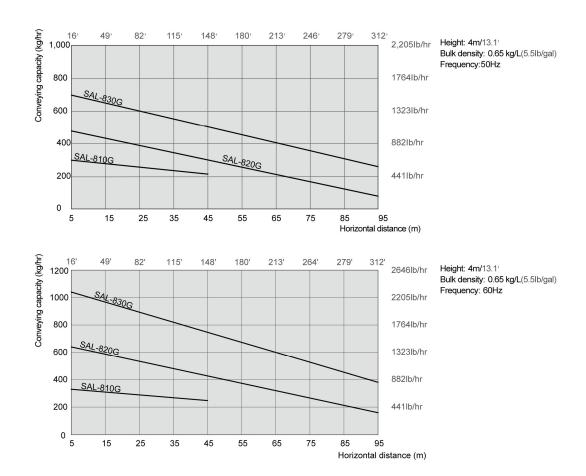
	Main Unit				Hopper Re	eceiver(s)				Air			
Model	Ver.	Blower Type	Blower Power (kW)	Dimensions (mm)H×W×D	Weight (kg)	Recommended Model	Hopper Capacity (L)	Dimensions (mm) H×W×D	Weight (kg)	RS-485 communication function	Conveying Hose Dia. (inch)	Suction Pipe Dia. (inch)	Conveying Capacity (kg/hr)
						SMH-6L		460×260×315	6				
SAL	В	Induction	0.75	740×400×410	58	SVH-6L	6	600×285×305	7	•	1.5	1.5	300
-810G			(3Ф)			SHR-6U		420×285×360	6				
						SMH-12L		515×300×350	7				
SAL	В	Induction	1.5 (3Ф)	740×400×410	65	SVH-12L	12	695×300×360	11	•	1.5	1.5	480
-820G						SHR-12U		470×315×400	7				
						SMH-24L		720×325×375	9				
SAL	В	Induction	1.85	785×400×410	68	SVH-24L	24	1120×360×375	13	•	2	2	700
-830G			(3Ф)			SHR-24U		690×315×400	9				

Notes: 1) "SVH" stands for photosensor hopper receiver; " SMH " stands for vacuum hopper receiver. " SHR-U " stands for Euro-Hopper receiver.

- 2) Test condition of conveying capacity: Plastic material of bulk density 0.65kg/L, dia. 3~5 mm, vertical conveying height: 4m, horizontal conveying distance: 5m.
- 3) " \bullet " stands for standard, " \bigcirc " stands for options, "-" stands for none.
- 4) All SAL-810G/820G/830G hoppers adopt the 4P heavy-duty connector.
- 5) Power supply: 3Φ, 230/400/460/575V, 50/60Hz.



1.3.3 Loading Capacity



Picture 1-3: Loading Capacity



1.4 Safety Regulations

Please abide by the safety guide when you operate the machine so as to prevent damage of the machine and personal injuries.

1.4.1 Safety Signs and Labels



All electrical components should be installed by qualified electricians. Turn off main switch and control switch during repair and maintenance.



Warning! High voltage!

This mark is attached on the cover of the control box.



Warning! Be careful!

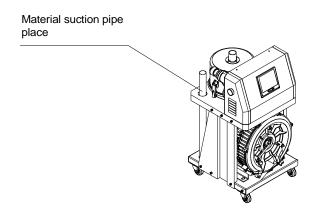
Be more careful when this mark appears.



Attention!

No need for regular inspection because all the electrical parts in the control unit are fixed tightly!

1.4.2 Material Suction Pipe Location



Picture 1-4: Material Suction Pipe Location Drawing

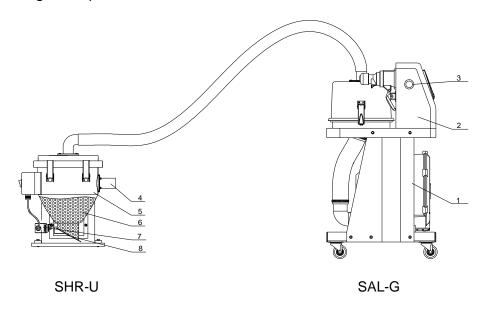


2. Structure Characteristics and Working Principle

2.1 Working Principle

SAL-G series are suitable for conveying plastic granules over long distance. Utilizing high efficiency vacuum blower to produce vacuum in material hopper, plastic materials will then be fed into material hopper by air pressure.

2.1.1 Working Principle



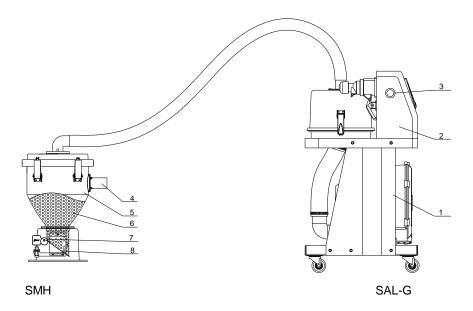
Picture 2-1: Working Principle 1

- 1. High-pressure blower
- 3. Buzzer
- 5. Storage hopper
- 7. Reed switch

- 2. Control box
- 4. Material inlet pipe
- 6. Materials
- 8. Discharging plate

Turn on the machine, the high pressure blower(1)starts work, it makes storage hopper (5) generate the vacuum. Discharging plate(8) closed, materials in silo get into the storage hopper(5) through material inlet pipe(4) by air pressure. When the loader finishes the work, high pressure blower(1) stop working, materials (6) will drop off due to gravity. When the reed switch (7) detects there's no material, high pressure blower (1) will start working again. When the loader can't suck the matrial or material shortage, the buzzer(3) on control box(2) will alarm.





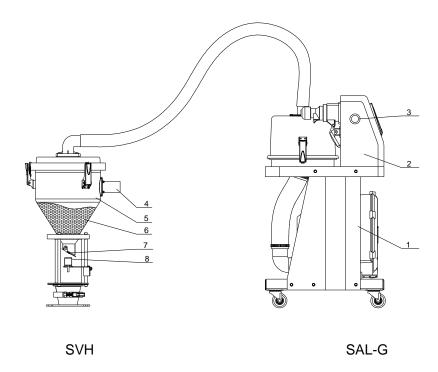
Picture 2-2: Working Principle 2

- 1. High-pressure blower
- 3. Buzzer
- 5. Storage hopper
- 7. Micro switch

- 2. Control box
- 4. Material inlet pipe
- 6. Materials
- 8. Discharging plate

When the machine is on, the high pressure blower(1) starts to work, and it makes storage hopper(5) generate the vacuum. The discharging plate(8) is closed, and then materials in silo get into the storage hopper(5) through material inlet pipe(4) owing to air pressure. When the loader finishes its work, high pressure blower(1) stops working, and materials(6) will drop off because of gravity. When the micro switch(7) detects there's no material, high pressure blower(1) will start to work again. When the loader can't suck the material or there is material shortage, buzzer(3) on the control box(2) will sound an alarm.





Picture 2-3: Working Principle 3

- 1. High-pressure blower
- 3. Buzzer
- 5. Storage hopper
- 7. Discharging plate

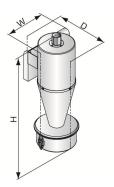
- 2. Control box
- 4. Material inlet pipe
- 6. Materials
- 8. Photoelectric switch

When the machine is on, the high pressure blower(1) starts to work, and it makes storage hopper(5) generate the vacuum. The discharging plate(7) is closed, and then materials in silo get into the storage hopper(5) through material inlet pipe(4) owing to air pressure. When the loader finishes its work, high pressure blower(1) stops working, and materials(6) will drop off because of gravity. When the photoelectric switch(8) detects there's no material, high pressure blower(1) will start to work again. When the loader can't suck the material or there is material shortage, buzzer(3) on the control box(2) will sound an alarm.



2.2 Options

I Cyclone dust collector



It is suggested to opt cyclone dust collector to reduce cleaning times of filter when regrind material occupies over 30% of total raw material.

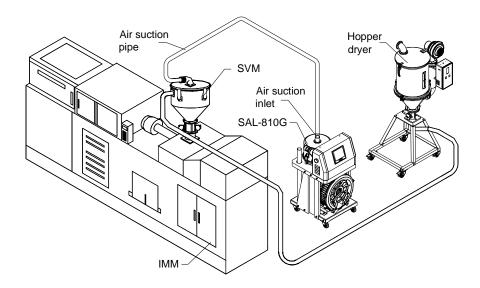
Model	Capacity (H×W×D)	Pipe diameter (inch)
ACF-1	550×220×235	1.5
ACF-2	550×220×235	2.0

- I For SHR,SCH-6U/12U/24U and SICH-6U/12U/24U are optional (Temperature redution is below 30 °C within 30min).
- I SCH-U is optional for SMH, which is convenient for temporary storage of materials.
- I SPV-U (control box is included) is optional.
- I For folished hopper inside ones,add "P" at the end of the model code.



3. Installation Layout

3.1 SAL-810G/820G/830G



Picture 3-1: Installation Layout 1

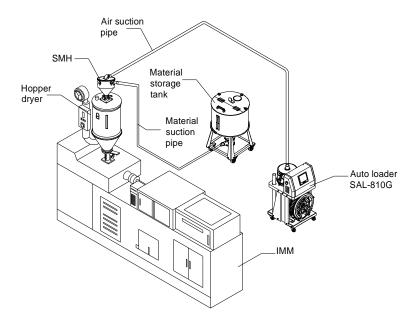
Notes for Installation and Positioning:

- Machine just can be mounted in vertical position. Make sure there's no pipe, fixed structure or other objects above the installing location and around the machine which may block machine's installation, hit objects or injure human person.
- 2) For easy maintenance, it's suggested to leave 1m space around the machine.
- 3) Machine should be placed on water-level surface. If it needs to be mounted on a higher surface (e.g. the scaffold or the interlayer), should ensure its structure and size could bear the weight and size of the machine.

- Place the SAL-810G/820G/830G machine at a proper position on the ground, connect the three phase power cord and the earth.
- Install the material hopper on the top of the hopper dryer and the sensor hopper onto the plastic injection machine. Connect the signal cord to the machine SAL-810G/820G/830G.
- 3) Use the steel wire soft hose, connect the air inlets of the sensor hopper to the current air inlets of SAL-810G/820G/830G, then connect the material inlets of



storage tank to the vacuum hopper.

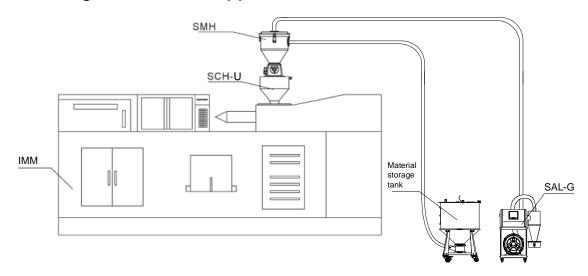


Picture 3-2: Installation Layout 2

- 1) Place the machine SAL-810G/820G/830G at a proper position on the ground, connect the three phase power cord and the earth.
- 2) Install the material hopper on the top of hopper dryer, and connect the signal to the machine SAL-810G/820G/830G.
- 3) Use the steel wire hose, connect the air inlets of SMH to corresponding air inlets of SAL-810G/820G/830G. Then connect the other air inlets of SMH to the air inlets storage tank with hose.



3.2 Installation of Vacuum Hopper Receiver SMH Optional Storage Collective Hopper SCH-U



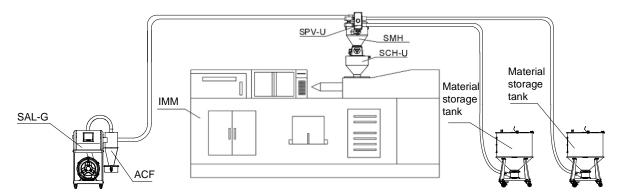
Picture 3-3: Optional SCH-U Installation Layout

SMH vacuum hopper can option with collection hopper SCH-U for direct mounting at material inlet of the molding machine.

- Mount the SCH-U at material inlet of molding machine, point to the holes and lock the screws.
- 2) Put the SMH on the SCH-U, point to the holes and lock the screws, then connect the signal wire to the hopper loader of SAL-G.
- Connect the air inlet of vacuum hopper with steel wire hose separately to corresponding air inlet of SAL-G. Connect the material inlet of storage silo to the material inlet of vacuum hopper.



3.3 Installation of SAL-G Optional Proportional Valve



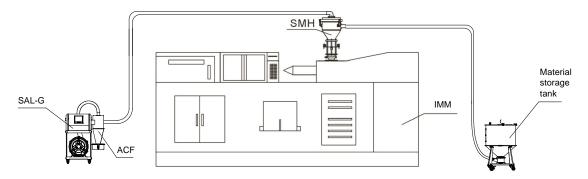
Picture 3-4: Optional SPV-U Installation Layout

Optional proportional valve SPV-U can realize two kinds of materials mixing.

Installation:

- 1) Mount the SPV-U at material inlet of SMH(SVH) lock up and fix the screws.
- 2) Put the SMH on SCH-6L or put the SVH at the material inlet of molding machine. Point to the holes and lock up the screws, then connect the signal wire to the hopper loader of SAL-G.
- 3) Connect the air inlet of vacuum hopper with steel wire hose separately to corresponding air inlet of SAL-G. Connect the material inlet of storage silo to the material inlet of vacuum hopper.

3.4 Installation of SAL-G Optional Cyclone Dust Seperator



Picture 3-5: Optional ACF-1 Installation Layout

When conveying plastics contain dusts in high proportion, optional dust cyclone separator is recommended to reduce the purging times of main machine filter.



- Mount the ACF-1 on coverplate of SAL-G and lock up the screws(There's two holes on coverplate of SAL-G main machine for installation);
- 2) Connect the air inlet of SAL-G main machine with steel wire hose to air outlet of ACF-1.
- 3) Connect the air inlet of ACF-1 with steel wire hose to air inlet of the hopper;
- 4) Connect one end of steel wire hose to hopper material inlet, and connect to the suction inlet of storage tank.



4. Operation

4.1 Panel Description



Picture 4-1: Panel



NO.	Symbol	Name	Description
1		ON/OFF	Start/stop the machine
2		MENU	Enter or exit parameter setting
3		SET	Modify or confirm machine parameters
4		DOWN	Move the menus down, and reduce the value
5		UP	Move the menbus up, and increase the value
6		FULL MAT.LIGHT	It means full materials in the hopper
7		BLENDING	It means the machine is mixing the materials in the hopper
8		MAT.SHUT-OFF	It means the machine is shutting off the materials
9		SHORTAGE ALARM	It means machine alarm for no materials during suction
10		COMMUNICATION	It means the communication is connecting through
11		FILTER MESH CLEAN	It means filter auto cleaning function
12		OVERLOAD ALARM	It means motor overload error
13		SCREEN BLOCKING	Prompt to clean or replace the filter screen



4.1.1 Parameter Setting

Press **Menu key**, and enter parameter setting.

Step 1, Press "Up" and "Down" to select parameter, press "Set" to enter setting Step 2, press "Up" and "Down" to adjust the parameters, press "Set" for confirmation and return to up page.

For example: set "suction action time" to 15 secs.

In OFF mode, press the <MENU> key to enter parameter setting.

Press <DOWN> or <UP> key to select the fuction code F.01, and press <SET> to enter.

Press the <DOWN> or <UP> key to modify the parameter to 15, and press the<SET> key to confirm the modification.

	Description		meters
Code			Adjusting
	0	Value	Range
F.01	Suction action time Motor suction action time whe it short of materials, which is also the action time of vacuum breaking valve. Corresponding action: D	15 secs.	5-127 secs.
	Shut-off action time		
F.02	Start the same time with the suction action, and set the shut-off time. Set it to 0: not start.	0	0-100 secs.
	Mixing proportion		
F.03	Start the same time with the suction action, and set the mixing proportion. Time calculation method: suction time *[F.03]% Set it to 0: not start.	0% not start	0-100%
F.04	Mixing working method When mixing happens, the layers of mixing action. For example, if the suction time is 20sec, the mixing proportion is 10%, and the layer number is 2, then the mixing action is 9s—1s9s1s. Set single layer's working, and the suction time range is 5-99 secs. Set double layer's working, and the suction time range is 17-99 secs. Set three layer's working, and the suction time range is 32-99 secs. Set four layer's working, and the suction time range is 46-99 secs. If changing the suction time, by calculation, the minimum suction action of each layer is less than 1 sec., and the program will force the action changing time to 1 sec.	1	1-4 times



F.05	Mixing count cycle start setting. Count since the first time start up, and start once mixing after repeatedly started several suction actions. Set it to 1: mixing in each suction. Set [F.03] to 0: Don't mix the materials.	1 time	1-9 times
F.06	Screen cleaing time setting before suction Set it to 0: no cleaning before suction Corresponding action: R01	0 secs.	0-99 secs.
F.07	Screen cleaing time setting after suction Set it to 0: no cleaning after suction Corresponding action: R11	0 secs.	0-99 secs.
F.08	Cleaning action cycle Start once [F.06] or [F.07] cleaning action after repeatedly started several suction actions. Set it to 1: Clean the screen after each suction	3 times	1-99 times
F.09	Suction cycle waiting time After once suction action, the waiting time before the next suction action. Set it to 0: Don't wait. Corresponding action: N03	0 (Unit 10 secs.)	0-9990
F.10	Shortage Times Count Alarm Set the times for the alarm that the material doesn't drop into the hopper before machine shutdown. Alarm cleaning method: 1.The alarm will dismiss when it sucked the materials again. 2.Press ENT key on the panel to cancel. 3.Turn on/off the power again. Set it to 9 to cancel the function. Corresponding action: A.01	3	1-9 times
F.11	Shortage Times Count Stop Alarm Set the times for the alarm that the material doesn't drop into the hopper before machine shutdown. Alarm cleaning method: 1.Press ENT key on the panel to cancel. 2.Turn on/off the power again. Corresponding action: A.04	3	[F.10]-99
F.12	The time to wait motor stop (suitable for SAL-430/460) After motor start running, it's necessary to wait the countdown time before the next action.	0 secs.	0-99 secs.
F.13	Alarm buzzer sound type 0:Lasting sound 1:Slow intermittent sound 2:Fast intermittent sound	0	0-2



	Motor delay stop time		
F.14	The delay time after [F.01] suction time is over, then the	30 secs.	0~999 secs.
	motor stops running.		
	Motor using time		0-999
F.15	Check the motor using time and clear the motor using time.	0 (Unit:	Only 0 can
F.15	The method to clear motor using time: set the value to 0, and	10hrs)	clear the
	press ENT key to clear.		time;

4.1.2 Communication Parameter Setting

Press the <MENU> key and <UP> key at the same time for three seconds to enter the communication parameter setting screen.

Codo	Function Decoration	Parar Val	
Code	Function Description	nction Description Default Value Rang	
F.30	Communication address	1	1-99
F.31	Communication baud rate 019200 19600 24800	1	0-2
F.32	Parity check 0invalid 1odd parity 2 even parity	0	0-2

4.2 Alarm Program

Description of blender controller, alarm status and solution method

Panel	Alarm Causes	Solution Method
Code	Alailli Causes	Solution Method
	Shortage alarm [F.10] 1. The set suction time is too short. 2. The materials can't be absorbed. 3. Suction pipeline is blocked. 4. Pipeline suction is too small.	1) Add materials 2) Increase suction time 3) Shut down and check the pipe line. When it sucks the materials again, the alarm will dismiss or the ENT key on the panel can also be cancelled or turn on the power again.
	Filter warning Filter screen blocking	Shut down and clean the filter screen or replace filter screen. The alarm will dismiss when it turns on/off the power again or it can be cancelled by clicking the ENT key on the panel.





Motor overload alarm
When an overload alarm occurs, it
alarms for shutdown.

- 1) If the motor is damaged, replace the motor.
- The setting of thermal overload is wrong, adjust the setting value again.

Check the cause of motor overload and turn on the power again;

4.3 Operation Procedure Description

4.3.1 Oeration procedure

Panel Code	Function	Corresponding	Parameter Values		
Panel Code	Description	Parameters	Default Value	Range	
R01	Filter screen cleaning	F.06	3 secs.	0-99 secs.	
R02	Wait for motor stop	F.12	3 secs.	0-99 secs.	
D	Sucking materials (vacuum breaking valve works)	F.01	15 secs.	5-127 secs.	
D	Sucking master batch (The	F.03	0%	0-100%	
	vacuum breaking valve closes after this action)	F.05	3	1-9 times	
N01	Waiting time	F.12	3 secs.	0-99 secs.	
R11	Filter screen cleaning, and the materials discharge into the hopper	F.07	0 secs.	0-99 secs.	
R12	Wait for motor stop	F.12	3 secs.	0-99 secs.	
N02	Wait for materials completely discharge into the hopper	F.20	10 secs.	5-99 secs.	
N03	Suction cycle waiting	F.09	0 secs.	0-9990 secs.	
Р	Wait for suction confirmation				

4.3.2 Date Reset

- 1. Turn off the machine power.
- 2. Short circuit two pins of J2.
- 3. Turn on the machine power.
- 4. Wait for three secs., and then remove the short-circuit two pins of J2.
- 5. Finished

Notes: All parameter settings will be reset to factory default. Please use this function carefully.



4.4 Communication Parameter Table (Protocol modbus-RTU)

Address (Keep the deposit area) (decimal system)	Parameter Content	Reading R/ Writing W	Default Paramet ers	Minimum	Maximum	Unit
	Current action					
	bit 0 shutdown			0	1	
	bit 1 standby			0	1	
	bit 2 suck the materials			0	1	
	bit 3 wait for material discharge			0	1	
	bit 4 clear the filter					
0	screen	R	/	0	1	/
	bit 5 wait for material					
	stop			0	1	
	bit 6 filter			0	1	
	blockage alarm				'	
	bit 7 shortage alarm			0	1	
	Bit 8~bit 16 defined					
1	Real-time information	R	/			/
3	Suction action time	R/W	15	5	127	S
4	Filter cleaning cycle	R/W	3	1	99	次
6	Filter setting time	R/W	0	0	99	S
7	Discharge check time	R/W	10	5	99	S
8	Standby time after motor running	R/W	0	0	99	S
9	Filter cleaning setting time after suction	R/W	0	0	99	S
10	Suction cycle waiting time	R/W	0	0	9990	10S
13	bit 0 shortage input signal bit 1 filter blockage input signal bit 4 suction output bit 5 spraying valve	R	/	0 full material 0 no blockage 0 no output	1 shortage of materials 1 blocked 1 output	/
	outout bit 6 alarm output bit7~bit15 undefined			0 no output 0 no output	1 output 1 output	
14	Current action bit 0 shut down			0	1	
	bit 1 standby bit 2 suck materials bit 3 wait for material	R	/	0 0	1 1	,
	discharge	r.	1			_ ′
	bit 4 clean the filter			0	1	
	bit 5 wait for motor stop			0	1	.
	bit 6 filter blockage alarm			0	1	-
	bit 7 material shortage			0	1	



	alorm		I			1
	alarm bit8~bit15 undefined					-
15	Start/stop control	W	/	0 start up	1 shut down	/
16	Suction action time	R/W	15	5	127	S
17	Mixing proportion	R/W	0	0	100	%
18	Set the start of mxing count cycle	R/W	1	1	9	time s
19	Filter cleaning cycle	R/W	3	1	99	time s
20	Suction cycle waiting time	R/W	0	0	9990	10S
21	Filter cleaning set time before suction	R/W	0	0	99	S
22	Filter cleaning set time after suction	R/W	0	0	99	S
23	Discharge check time	R/W	10	5	99	S
24	Shortage count alarm	R/W	3	1	9	time s
25	Shortage count stop alarm	R/W	3	Shortage count alarm	99	time s
26	Standby time after motor running	R/W	0	0	99	S
27	Buzzer sound type	R/W	1	0	2	/
29	Motor use time record	R/W	0	0	999	10h
30	Full material detection time	R/W	3	1	9	S
31	Shortage detection time	R/W	3	1	9	S
32	Shut-off time	R/W	0	0	100	S
34	Motor delay stop time	R/W	30	0	999	S
35	Total numbers of mixing actions	R	0	0	0x03 set value	time s
36	Total numbers of cleaning actions	R	0	0	0x04 set value	time s
37	Total numbers of shortage alarm	R	0	0	99	time s
38	On/off control	W		0 start up	1 shut down	/
	Current action					
	bit 0 start			0	1	
	bit 1 standby			0	1]
	bit 2 filter cleaning			0	1	
	bit 3 wait for motor stop			0	1	
39	bit 4 suck materials	R	/	0	1	/
39	bit 5 suck master batch (mixing)		,	0	1	,
	bit 6 wait for material discharge			0	1	
	bit 7 suction cycle waiting time bit8 ~bit 15 undefined			0	1	-
40	Real-time info.	R	/			/
-10	Input and output state	13	,			
41	bit 0 shortage input signal	R	/	0 full material	1 shortage of materials	/



	bit 1 filter blockage input signal			0 no blockage	1 blocked	
	bit 2 suction output			0 no output	1 output	
	bit 3 vacuum breaking output			0 no output	1 output	
	bit 4 mixing output			0 no output	1 output	
	bit 5 spraying valve output			0 no output	1 output	
	bit 6 alarm output			0 no output	1 output	
	bit7~bit15 undefined					
	Alarm status					
	bit 0 shortage alarm	R		0	1	
42	bit 1 shortage stop alarm		/	0	1	/
	bit 2 filter blockage alarm			0	1	
	bi t 3~bit 15 undefined					
45	Mixing layers	R/W	1	1	4	laye r
46	Action mode (Only can be set in shutdown)	R/W	5	1	5	/

Notes: R means only reading
W means only writing
R/W means reading/writing

Notes: There's no password set in factory before delivery, and it can be set by the customer. In case of loss, please contact us.



5. Troubleshooting

Fault Possible reasons		Solutions		
When shortage lasts long, and suction	The main switch and control switch don't open or the above two don't connect well. The microswitch on hopper don't connect well.	Close the main switch and control switch and check their connecting. Adjust or replace.		
blower don't run.	The signal wire is break off.	Re-connect.		
The suction blower still running when the hopper is full.	The touch point is conglutinated	Repair or replace.		
After several times of	The storage tank is empty.	Add the material		
loading the material hopper still empty or	The pipe is air leak.	Lock tightly and replace the vacuuming pipe.		
the material shortage alarms.	The filter is blocked.	Clean the filter.		
The motor can't run.	Short-phase or motor was burnt out.	Check and replace.		
The fuse always burnt out after start-up.	Short circuit or connect the ground.	Check the circuit.		
Motor overload	The filter is blocked.	Clean the filter and reset the overload relay.		
alarms	One of three phase is lacking.	Check the circuit and reset the overload relay.kkk		
Poor material liquidityin the pipe	Over or lack of air quantity	Adjust air inlet location of the suction box. Avoid small bending of the elbow.		



6. Maintenance

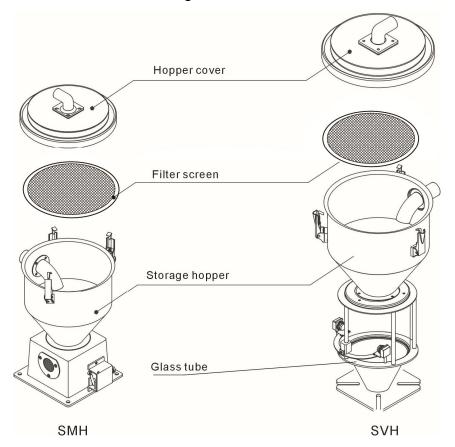
6.1 Hopper Cleaning

SMH Cleaning: In order to avoid air-blocking and to get smooth conveying.

Clean the filter screen inside of material hopper. Unlock the snap hook on the hopper, remove the hopper cover and take out the filter screen, then clean it. Clean the filter periodically or when the suction force is reduced.

SVH Cleaning:

- Clean the filter screen, in order to avoid air-blocking and to get smooth conveying. Clean the filter screen inside of material hopper. Unlock the snap hook on the hopper, remove the cover and take out the filter, then clean it. Clean periodically or when the suction force is reduced.
- 2. Clean the glass pipe, when the dust accreted on the tube. Clean the dust in time for machine normal working.



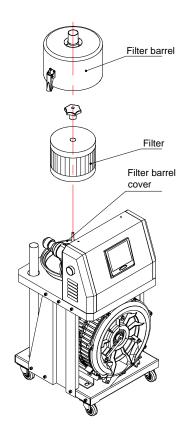
Picture 6-1: Hopper Cleaning



6.2 Main Body Cleaning

When machine in use, clean the filter periodically or when the suction force is reduced. Take out the filter from the main body, clean the dust accreted on it to ensure good ventilation of the air and to enhance loading capacity.

Filter Inspection and Storage Hopper Cleaning



Picture 6-2: Filter Barrel Cleaning Drawing

- 1. Loosen the snap hook, take out the filter barrel and the filter; blow off the dust with a high-pressure air gun from the inside to outside; take down the filter barrel cover and remove the dust in it.
- 2. Clean the filter. Period: daily



6.3 Maintenance Schedule

6.3.1 About the Machine

Model	SN	Manufa	acture date	
VoltageΦ_	_V	Frequency H	Hz Power	kW
6.3.2 Installation & Inspe	ection	า		
☐Check if the suction	n pip	pe has been correctly	connected.	
☐Check if that pipe	clips	is secured.		
Check if mounting ba	ıse İs	secured.		
Electrical Installation				
□Voltage:	_ V	Hz		
☐Fuse: One-phase:		A Three-p	ohase: A	
☐Check power phas	e.			
6.3.3 Daily Checking				
Check main power s	witch.			
Check filter				
Check working status	of th	ne blower.		
6.3.4 Weekly Checking				
Check all the electric	al cal	bles.		
		onnections of electrical c	components.	
Check the screw of the	ne ba	se is secured.		
Check the air filter.				
6.3.5 Monthly Checking				
		he hopper cover is loose	ed or not.	
Check the hopper fla				
□Check the performan	ce of	magnetic proximity swite	cn/pnotoelectrical sen	sor.