

SES

Auto Loader of Big Bag

Date: Jul. 2017

Version: Ver.A(English)



Contents

1. General Description	5
1.1 Coding Principle	6
1.2 Technical Specifications.....	7
1.2.1 Dimensions.....	7
1.2.2 Specifications	7
1.3 Exemption Clause	8
2. Structure Characteristics and Working Principle	9
2.1 Working Principle	9
2.2 Suction Device	10
2.3 Air Cylinder Device.....	10
2.4 Assembly Drawing	11
2.4.1 Assembly Drawing.....	11
2.4.2 Parts List.....	12
3. Application and Operation.....	13

Table Index

Table 1-1: Specifications.....	7
Table 2-1: Parts List.....	12

Picture Index

Picture 1-1: Dimensions	7
Picture 2-1: Working Principle.....	9
Picture 2-2: Suction Device	10
Picture 2-3: Air Cylinder Device	10
Picture 2-4: Assembly Drawing	11

1. General Description



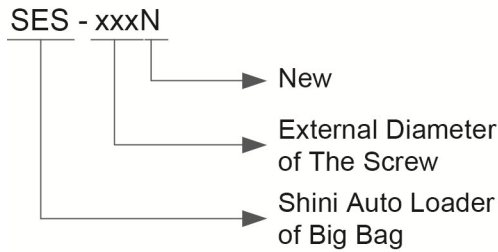
Read this manual carefully before operation to prevent personal injuries or damage of the machine.

SES-800N is mainly applied to big bag of granules during suction, conveying and unloading processes in plant. It has compact structure with excellent suction ability, which is widely used in plastic granules industries.



Model: SES-800N

1.1 Coding Principle



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.

Headquarter and Taipei factory:

Tel: + 886 (0)2 2680 9119

Shini Plastics Technologies (Dongguan), Inc:

Tel: + 86 (0)769 8111 6600

Email: shini@shini.com

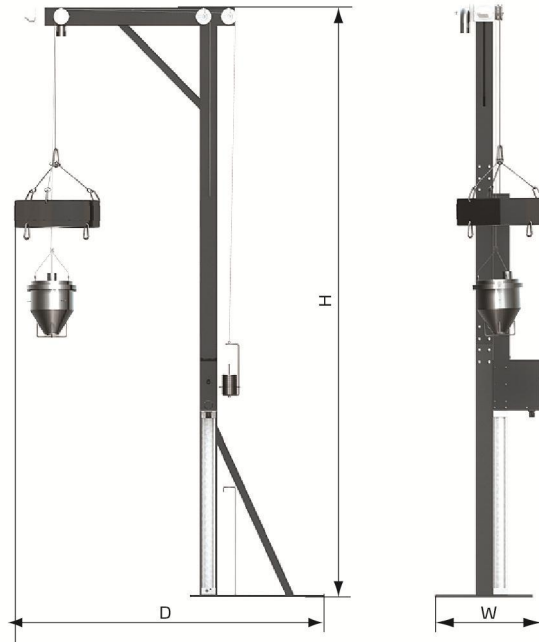
Shini Plastics Technologies India Pvt.Ltd.:

Tel: + 91 250 3021 166.

Please refer to shini.com/en/worldwide.html for local vendor near you.

1.2 Technical Specifications

1.2.1 Dimensions



Picture 1-1: Dimensions

1.2.2 Specifications

Table 1-1: Specifications

Mode	SES-800N
Cylinder stroke(mm)	800
Converging Pipe Dia.(inch)	2
Dimensions(W×D×H)(mm)	500×1600×2962
Weight (kg)	127

Notes: 1) Big bag height should not exceed 1.5M
 2) Power supply requirement: 1Φ,220V, 50Hz.

1.3 Exemption Clause

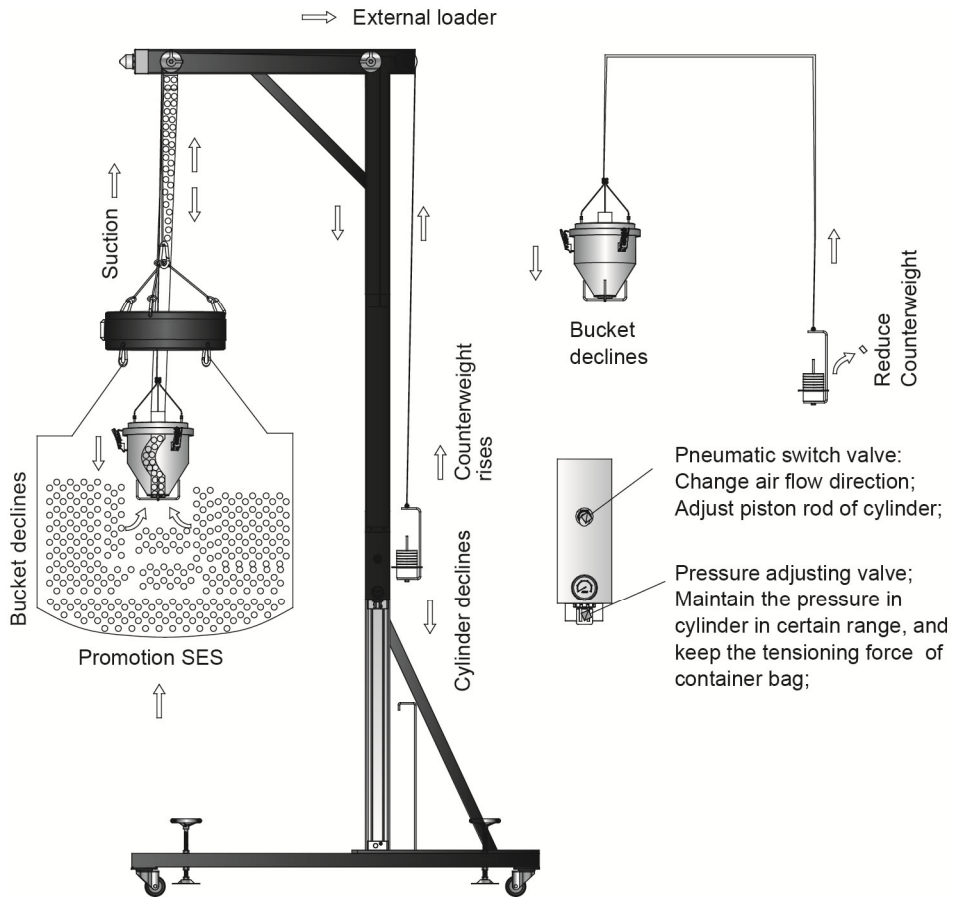
The following statements clarify the responsibilities and regulations born by any buyer or user who purchases products and accessories from Shini (including employees and agents).

Shini is exempted from liability for any costs, fees, claims and losses caused by reasons below:

1. Any careless or man-made installations, operation and maintenances upon machines without referring to the Manual prior to machine using.
2. Any incidents beyond human controls, which include man-made vicious or deliberate damages or abnormal power, and machine faults caused by irresistible natural disasters including fire, flood, storm and earthquake.
3. Any operational actions that are not authorized by Shini upon equipment, including adding or replacing accessories, dismantling, delivering or repairing.
4. Employing consumables or oil media that are not appointed by Shini.

2. Structure Characteristics and Working Principle

2.1 Working Principle



Picture 2-1: Working Principle

Start the pneumatic reversing valve to make cylinder rise, the lifting device will decline to fix the height of container bag. After fixation, activate the pneumatic reversing valve to make cylinder decline, the lifting device will tighten the container bag. Reduce the balancing weight to make loader decline into the container bag for material suction. During the suction, the container bag gradually loses its weight till less than the tightening force. Then the whole container bag will be lifted up, and the bottom material can also be sucked. Simultaneously, the cylinder reaches the limit and touches off the sensor and the alarm lights on, then the suction is finished.

2.2 Suction Device

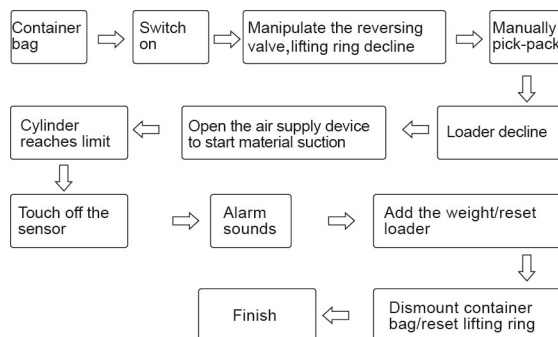


Picture 2-2: Suction Device

Air supply device: before material suction, open the air supply device and adjust the size of the inlet according to the suction situation for smooth operation.

A hopper hung by wire rope serves as suction device. It can rise and fall vertically since its weight is different from the balancing weight. In addition, the air supply device can adjust material suction situation.

2.3 Air Cylinder Device



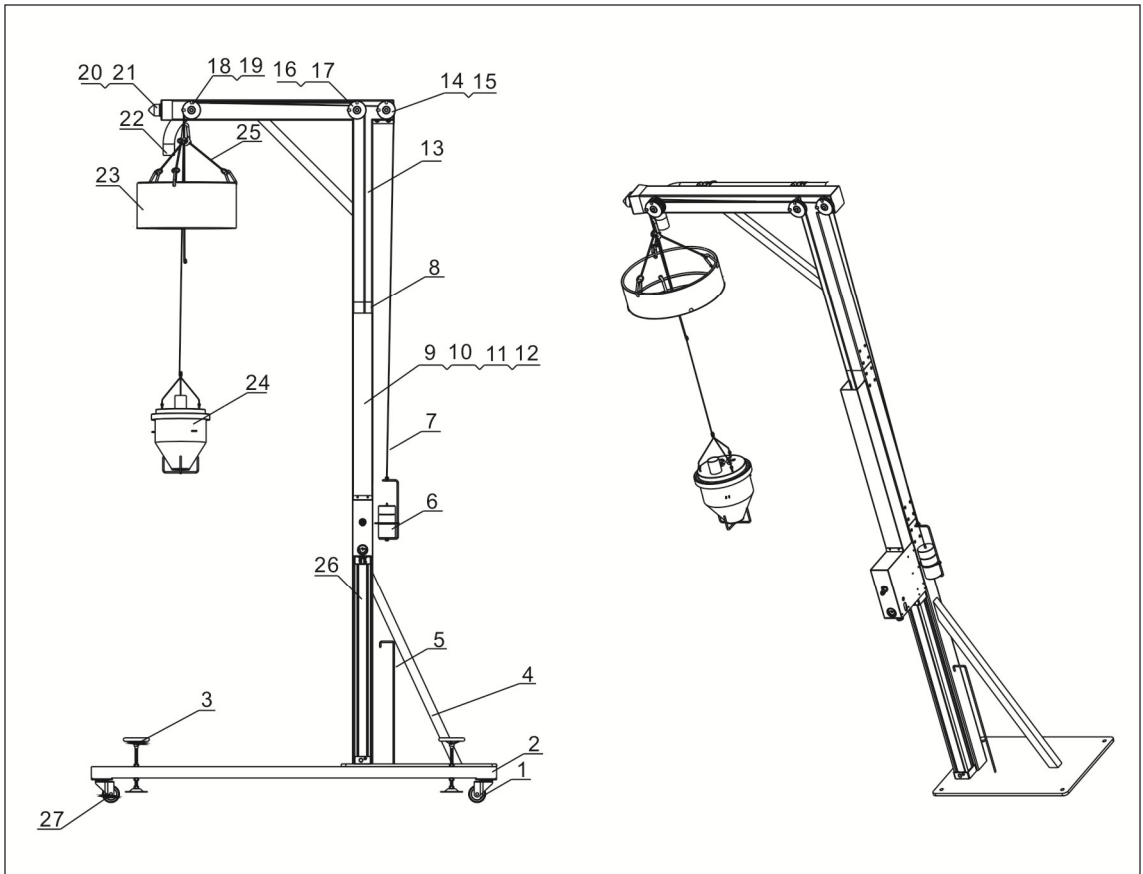
Picture 2-3: Air Cylinder Device

The cylinder collocated with pressure adjusting valve to adjust the air pressure. When the cylinder extends, the lifting ring will decline; when the cylinder shrinks, the lifting ring will rise.

When the cylinder reaches the limit, it will touch off the sensor and send signal.

2.4 Assembly Drawing

2.4.1 Assembly Drawing



Remarks: Please refer to material list 2.4.2 for specific explanation of the numbers in assembly drawing.

Picture 2-4: Assembly Drawing

2.4.2 Parts List

Table 2-1: Parts List

No.	Name	Part No.
1	Black rubber wheel (three inches)	YW03000300200
2	Underframe	SES-800N-A-01
3	Fixed hand wheel	SES-800N-A-02
4	Lower bracket	SES-800N-A-03-04
5	Under weight hook	SES-800N-A-10
6	Weight balance block	SES-800N-A-11
7	Stainless-steel wirerope with diameter of 2mm	YW90000200500
8	Middle leg bracket	SES-800N-A-03-05
9	Fixing plate for position limit switch	SES-800N-A-05
10	Bottom plate of Controller	SES-800N-A-06
11	Protection cover of cylinder	SES-800N-A-07
12	Control box	SES-800N-A-08
13	Upper bracket	SES-800N-A-03-06
14	Roller pulley combination 1	SES-800N-A-14
15	Steel wire baffle plate 1	SES-800N-A-22
16	Roller pulley combination 2	SES-800N-A-15
17	Steel wire baffle plate 1	SES-800N-A-22
18	Roller pulley combination 3	SES-800N-A-16
19	Steel wire baffle plate	SES-800N-A-17
20	Alarm light LED-3051/220VAC	YE83305100200
21	Installation plate of alarm light	SES-800N-A-03-03
22	Material suction pipe	SES-800N-A-12
23	Lifting ring	SES-800N-A-18
24	Hoopers	SES-800N-A-19
25	Wirerope with diameter of 4mm and two round heads	YW90000401700
26	Cylinder SI-63X800	YE30501000500
27	3 ' PP Roller caster with brake	YW03000300000

* means possible broken parts. ** means easy broken parts. A spare backup is suggested.

Please confirm the version of manual is compatible with equipment before placing the purchase order to guarantee that the item number of the spare part is in accordance with the real object.

3. Application and Operation

When the automatic suction device of auto loader of big bag is in operation, hopper always outweighs weight gauge, whose weight depends on the size of hopper loader. The larger the hooper loader is, the lighter the weight gauge is, vice versa. However, weight gauge would never outweigh hooper.

1. Put auto loader of big bag on an appropriate position of the automatic suction device;
2. Turn on the machine and connect air pipe;
3. Turn on the pneumatic switch valve to make cylinder rise, bring lifting ring down to a certain place, and then fix the auto loader of big bag on that place;
4. Use pneumatic switch valve to bring cylinder down, and strain the auto loader of big bag by lifting appliance;
5. Remove some weight gauges (adjust the weight of weight gauge in accordance with the size of hooper loader) to bring hooper down, and then put the hooper inside the auto loader of big bag (above the raw materials) ;
6. Turn on the air backup device;
7. Begin to suction materials;
8. Cylinder reaches a certain position;
9. Touch off the sensor;
10. Alarm light sends signal
11. Add more weight gauges to send hopper back;
12. Turn on the pneumatic switch valve to make cylinder rise, bring the auto loader of big bag down to a certain place, and then dismantle it on that place;
13. Turn on the pneumatic switch valve to bring cylinder down and send lifting ring back;
14. The operation is over.