# "Standard" Drying Loaders

SDL-100-800G

Refer carefully to the Manual before using products.

# SDL Series

## Coding Principle

SDL - xxx(x) - xxx

- Loader
- Option *
- Hopper Dryer Model
- Shini "Standard" Drying Loaders

Note: *

T=Timer M=Magnetic Base I=Double Insulated Layers

S=Single Phase Power

SDL-25-700G

## Features

### Standard configuration

- Adopts proportional deviation display thermostat, which controls the temperature accurately.
- Stainless steel hopper ensures no material contamination.
- Hopper separated from its base, which ensures convenient cleaning.
- Single tube suction box is a standard equipment.
- SDL-300 and even smaller models below are equipped with standard base. SDL-400 and even bigger models above it are equipped with magnetic base.
- For SHD-25~150, heater pipes are connected by aluminum sheets and other models are equipped with temperature protection to prevent heater pipe from damaging by blower faults.
- Overheat tripping can automatically cut off power when drying temperature exceeds set deviation value.
- Adopts heat-insulated blower to prolong blower lifespan.

### Accessory option

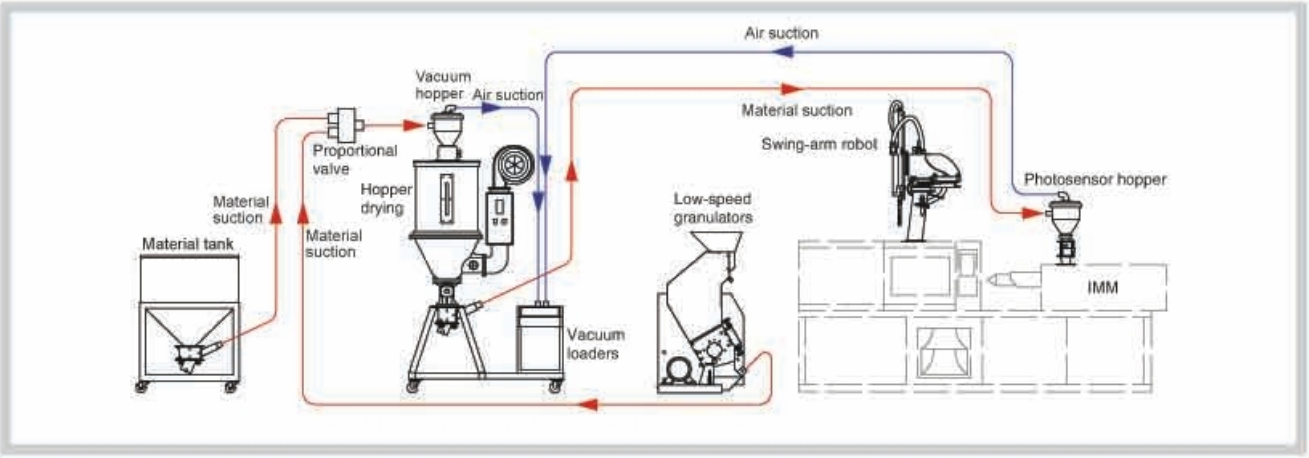
- Hot air recyclers is optional, featuring energy-saving, no exhaust of hot air and dust, and environmental protection.
- Hot air recycler, blower inlet filter, air filter, cyclone dust collector, magnetic base, hopper magnet, Euro suction box as your options.
- 24-hour timer is available as option.


Control Panel (With timer)

Hopper Inside

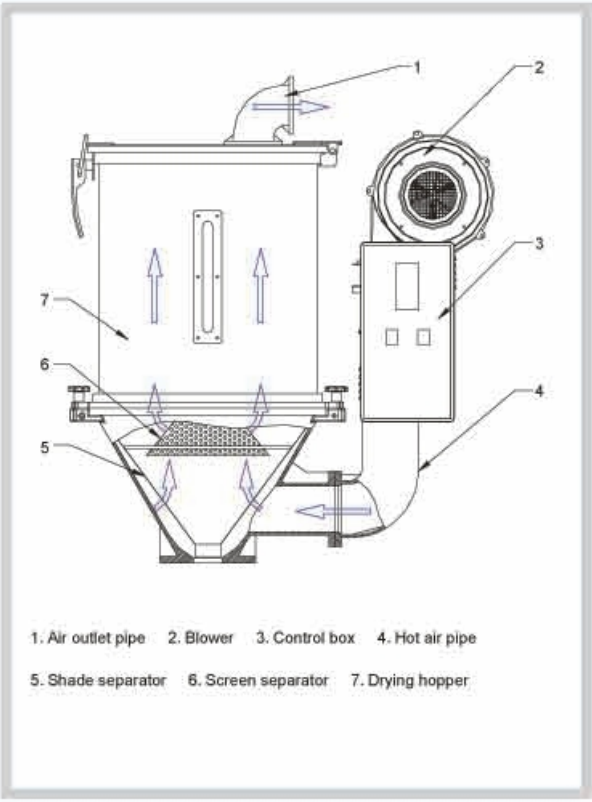
## Application

SDL series "Standard" Drying loaders integrate plastic drying and loading into one unit, especially applicable to those large injection moulding machine which are placed in height limited workshop. This combination offers a group of standard photosensor hoppers, which can be used to load dried materials. Besides, SAL-900G is available for choose to realize the two-stage loading function.




SDL-xxx-900G Application(Two-Stage Conveying)

## Working Principle




Drying: Air blown out of drying blower became high temperature drying air after being heated. Through screen protector and hole screen, hot air can be equably dispersed in the material of storage tank (see picture above). HAR is optional so the air enter drying blower after being filtered to form a closed loop circle and save electricity.

Conveying: firstly vacuum will be form inside hopper by using suction of high-pressure blower, and it produces differential pressures between hopper and external space. Under the force of differential pressures and continuous suction, material and air mixture will be sucked into hopper. Due to blocking of internal filter, material will be accumulated in the hopper while air is sent out through air exhaust by blower. Use SAL-700G/800G for a single conveying system, using SAL-900G for a 2-stage conveying system to realize 2-stage conveying. Return circuit of material suction is controlled by shifting three way valve inside suction machine.

# Options

## Cyclone Dust Separators

Effective filters 80% dust-contain air which is discharging from dryer so to avoid air pollution.

| Model | Applicable Model | Dia.(inch) |
|---|---|---|
| HCF-1 | SHD-12 | 2 |
| HCF-2 | SHD-25~150 | 3 |
| HCF-3 | SHD-200~600 | 4 |
| HCF-4 | SHD-800~1000 | 4 |

## Exhaust Air Filters

Effective filters 90% dust-contain air which is discharging from dryer so to avoid air pollution.

| Model | Applicable Model |
|---|---|
| ADC-1 | SHD-12 |
| ADC-2 | SHD-25~150 |
| ADC-3 | SHD-200~600 |
| ADC-4 | SHD-800~1000 |

## Magnetic Bases

| Model | Applicable Model | Magnetic Frame | Aluminum Holder |
|---|---|---|---|
| MB-12 | SHD-12 | MR-3 | (88.5 x 78 x 2.3) x 2 |
| MB-50 | SHD-25~75 | | |
| MB-100 | SHD-100~300 | | (118.5 x 105 x 2.3) x 2 |
| MB-400 | SHD-400 and above | | (147 x 130 x 2.3) x 2 |

Made of aluminum with built-in hopper magnet, can effectively separate metal scraps out so to avoid material contamination. (MB-400 is standard configuration)

## Blower Inlet Filters

| Model | Applicable Model |
|---|---|
| AIF-12 | SHD-12 |
| AIF-25 | SHD-25 |
| AIF-50 | SHD-50 / 75 |
| AIF-100 | SHD-100 / 150 |
| AIF-200 | SHD-200~500 |
| AIF-600 | SHD-600~1000 |

Note: Blower's air output is adjustable.

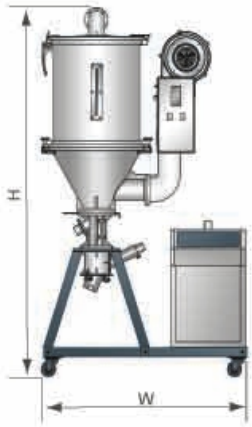
## Hot Air Recyclers

Work with hopper dryer to make the hot air form a semi-hermetic circulated loop and has features as follows:

1) Hot air recycling and circulating so to avoid indoor temperature rise up.
2) Keep air in factory clean and ensure good product quality.
3) Heating by fast hot air circulation can low down energy consumption to 40%.

| Model | Filtering Barrel Dia.(mm) | Inlet Air Pipe Dia.(inch) | Flange of Air Outlet Pipe (inch) | Applicable Model |
|---|---|---|---|---|
| HAR-12 | 157 | 2 | | SHD-12 |
| HAR-25 | 157 | 2.5 | | SHD-25 |
| HAR-50 | 175 | 3 | | SHD-50 / 75 |
| HAR-100 | 219 | 3 | | SHD-100 / 150 |
| HAR-200 | 245 | 4 | | SHD-200~500 |
| HAR-600 | 245 | 4 | | SHD-600~1000 |

## Outline Drawings





**To Work With**

SVH Hopper Receiver

SMH Hopper Receiver

## Specifications

| Model | Applicable Dryer Model | Applicable Loader Model | Applicable Hopper Receiver Model | Conveying Capacity (kg/hr) | Hopper Volume(L) | Dimensions(mm) H X W X D | Weight (kg) |
|---|---|---|---|---|---|---|---|
| SDL–25 | SHD-25 | SAL-700G or 800G | 1 x SVH-6L | 300 | 6 | 1620 x 1000 x 640 | 95 |
| | | SAL-900G | 1 x SVH-6L<br>1 x SMH-6L | 450 | 2 x 6 | | |
| SDL–50 | SHD-50 | SAL-700G or 800G | 1 x SVH-6L | 300 | 6 | 1750 x 1000 x 640 | 110 |
| | | SAL-900G | 1 x SVH-6L<br>1 x SMH-6L | 450 | 2 x 6 | | |
| SDL–75 | SHD-75 | SAL-700G or 800G | 1 x SVH-6L | 300 | 6 | 1850 x 1000 x 640 | 115 |
| | | SAL-900G | 1 x SVH-6L<br>1 x SMH-6L | 450 | 2 x 6 | | |
| SDL–100 | SHD-100 | SAL-700G or 800G | 1 x SVH-6L | 300 | 6 | 1950 x 1080 x 710 | 155 |
| | | SAL-900G | 1 x SVH-6L<br>1 x SMH-6L | 450 | 2 x 6 | | |
| SDL–150 | SHD-150 | SAL-700G or 800G | 1 x SVH-6L | 300 | 6 | 2200 x 1080 x 710 | 160 |
| | | SAL-900G | 1 x SVH-6L<br>1 x SMH-6L | 450 | 2 x 6 | | |
| SDL–200 | SHD-200 | SAL-800G | 1 x SVH-6L | 300 | 6 | 2385 x 1140 x 840 | 210 |
| | | SAL-900G | 1 x SVH-6L<br>1 x SMH-6L | 450 | 2 x 6 | | |
| SDL–300 | SHD-300 | SAL-800G | 1 x SVH-6L | 300 | 6 | 2690 x 1140 x 840 | 220 |
| | | SAL-900G | 1 x SVH-6L<br>1 x SMH-6L | 450 | 2 x 6 | | |
| SDL–400 | SHD-400 | SAL-800G2 | 1 x SVH-12L | 400 | 12 | 2800 x 1240 x 1020 | 285 |
| | | SAL-900G2 | 1 x SVH-12L<br>1 x SMH-12L | 700 | 2 x 12 | | |

Note: 1) Install 24hr timer, add "T" at the back of the model.
2) Additional note of "M" will be added to SHD-300 and below models, the bases of which are changed to be magnetic bases.
3) Change into double insulated layer, add "I" at the back of the model.
4) Additional note of "S" will be added to model, the voltage of which is changed to be single-phased voltage (Only applicable for SHD-75 and modes below).
5) Power: 3Φ, 230/400/460/575VAC, 50/60Hz.

We reserve the right to change specifications without prior notice.

## SHINI PLASTICS TECHNOLOGIES, INC.


Headquarters:

Shini Plastics Technologies, Inc.
No.23, Minhe St., Shulin Dist.,
Xinbei City, Taiwan
tel: +886 2 2680 9119
fax: +886 2 2680 9229
email: shini@shini.com


Factories:

- Taiwan
- Dongguan
- Ningbo
- Pinghu
- Mumbai