



## "Standard" Hopper Dryer

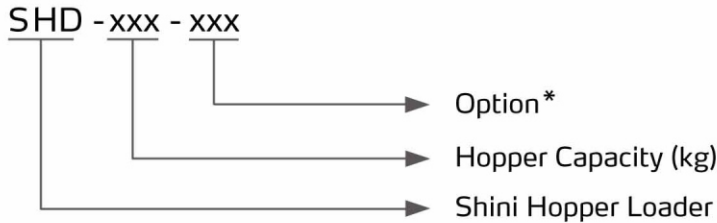
SHD-50



Refer carefully to this manual before operation.

# SHD Series

## ■ Coding Principle



Notes\*

M=Magnetic Base (SHD-300 and models below)

I=Double Insulaed Layers T=Timer

DT=Microprocessor with timer

## ■ Features

### Standard configuration

- Adopt hot air diffuser to gain an even hot air flow to improve drying efficiency.
- Hot air inlet elbow design can prevent dust piling up at bottom of the pipe heaters so as to avoid burning.
- All material contact surfaces are made of stainless steel to eliminate material contamination.
- Hopper separated from its base, ensuring convenient cleaning.
- Proportional deviation display thermostat for accurate temperature control.
- All series are equipped with exposed power switch.
- Equipped with excitation tripping overheat protection, making machine operation secure and reliable.
- 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.
- For SHD-100 and models above, standard equipped with 24-hour auto start/stop timer.

### Accessory option

- Micro computer control panel (with timer) and heat-preservation hopper are optional for each model.
- Cyclone dust separator, exhaust air filter, magnetic base and blower inlet filter are optional.
- Hot air recycler, suction box, hopper magnetic, N type floor stand and storage hopper are optional.
- For SHD-75 and models below, 24-hour auto start/stop timer is optional.



SHD-800

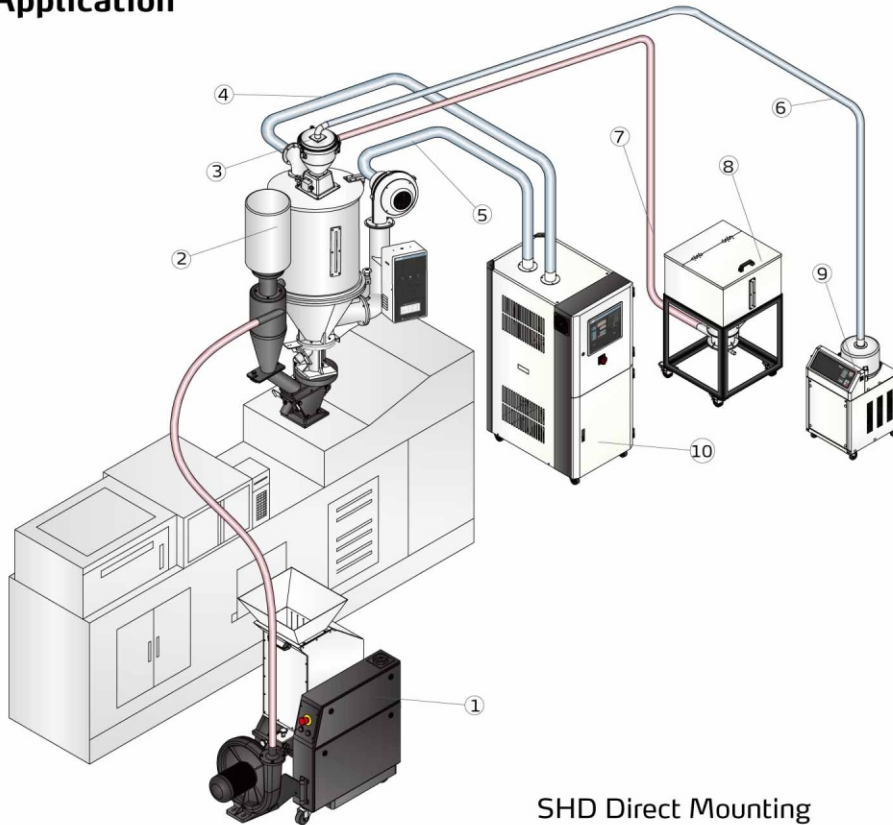


Hopper Inside

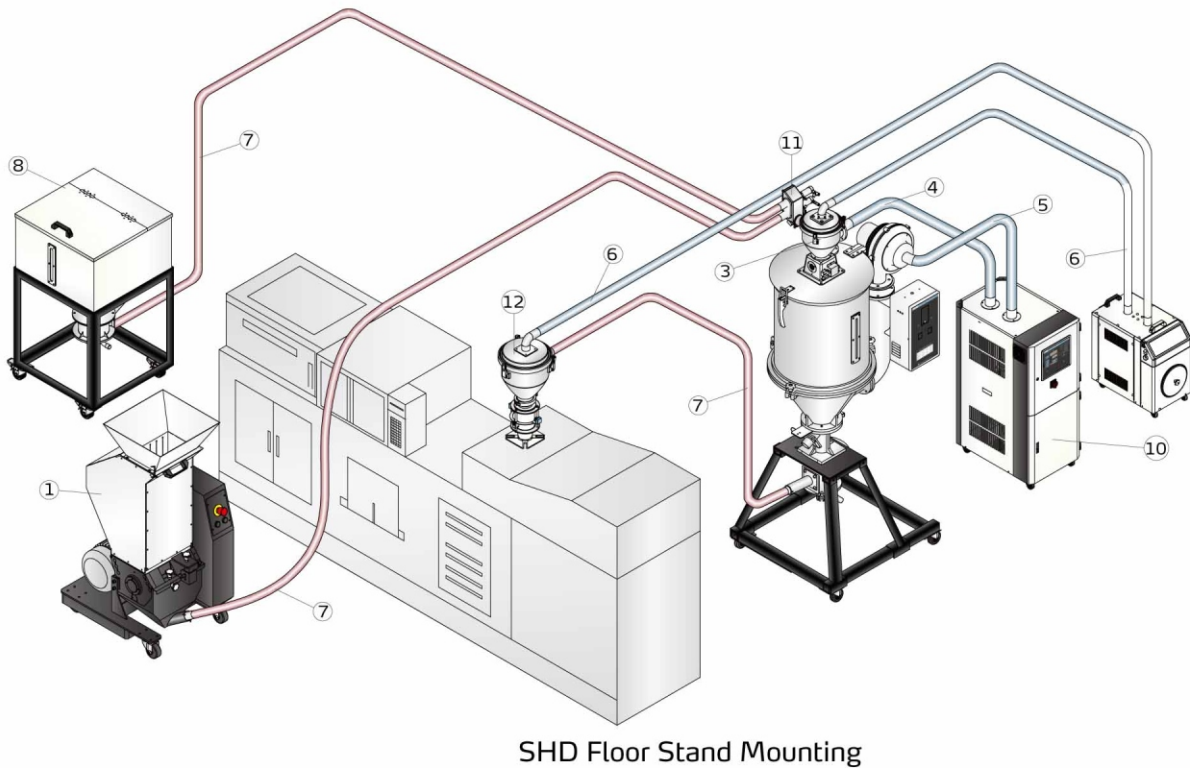


Control Panel (with timer)

## Application



1. Low-speed granulator
2. 30-sec instant recycle
3. Vacuum hopper
4. Return air
5. Dehumidifying air
6. Vacuum pipe
7. Material pipe
8. Material tank
9. Auto loader
10. Honeycomb dehumidifier
11. Proportional valve
12. Photosensor hopper

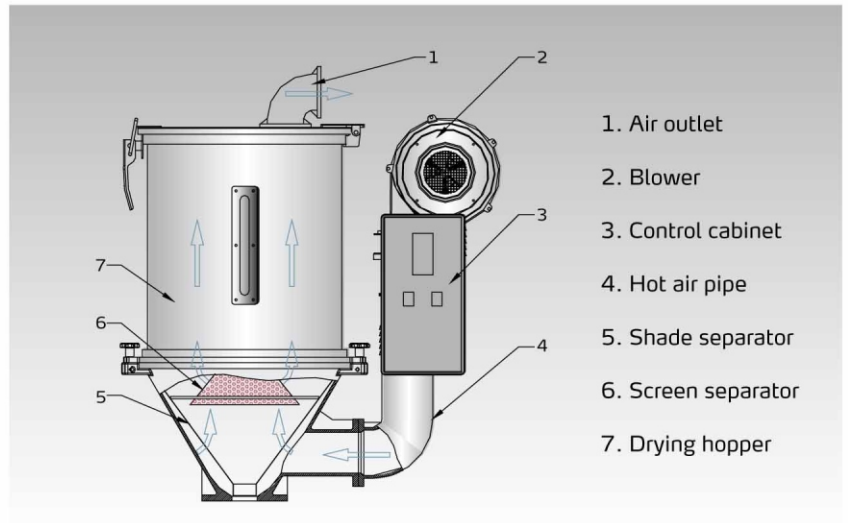


# SHD Series

## Working Principle

In the drying process, hot air with constant temperature is blown by a blower into a two-layer insulated hopper to dry the materials. Moisture will be separated out and taken away by hot air, thus to gain a satisfied drying effect.

Air blown out of 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). Hot air recycler is optional so the air enter drying blower after being filtered to form a closed loop circle and save electricity.



1. Air outlet
2. Blower
3. Control cabinet
4. Hot air pipe
5. Shade separator
6. Screen separator
7. Drying hopper

## Options



### Cyclone Dust Separator

Effectively filter 80% of dust-contain air discharged from dryer to avoid air pollution.

Model	Applied to	Dia. (inch)
HCF-1	SHD-12	2
HCF-2	SHD-25~150	3



### Air Filter

Effectively filter 99% of dust-contain air discharged from dryer to avoid air pollution.

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

### Magnetic Base



Model	Applied to	Magnetic Frame	Aluminum Holder
MB-12	SHD-12	MR-3	(88.5 × 78 × 2.3) × 2
MB-50	SHD-25-75		(118.5 × 105 × 2.3) × 2
MB-100	SHD-100-300		(147 × 130 × 2.3) × 2
MB-400	SHD-400 and models above		

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



## Hot Air Recycler



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

- 1) Hot air recycling and circulating avoids indoor temperature rising up.
- 2) Keep air in factory clean and ensure good product quality.
- 3) Heating by fast hot air circulation can lower energy consumption by 40%.

Model	Filtering Barrel Dia. (mm)	Inlet Air Pipe Dia. (inch)	Flange of Air Outlet (inch)	Applied to
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
HAR-800	245		4	SHD-800~1000

## Material Suction Box

European style in appearance design, work with dryer that has a floor stand and vacuum loader, suitable for material suction and discharging.



Applied to Model	SHD-12~75	SHD-100 and above
SBU	-20-38S	-160-38S
SBU	-20-50S	-160-50S
SBU	-20-38D	-160-38D
SBU	-20-50D	-160-50D

- Notes: 1) Install pneumatic shut off valve (add " V " at the end of the model code).  
 2) Change into stainless steel material (add "S" at the end of the model code).  
 3) Stainless steel polishing (add "P" at the end of the model code).  
 4) "S" stands for single tube suction box and "D" stands for double tubes suction box.

## Hopper Magnet

Absorb metal scraps in the material to avoid the damage of molding screw.



Model	Applied to	Aluminum Holder (mm)
MR-5	SHD-12	(148 × 80 × 2.3) × 2
MR-7	SHD-25~50	(190 × 80 × 2.3) × 2
MR-9	SHD-100~400	(240 × 80 × 2.3) × 2
MR-11	SHD-600及以上	(298 × 80 × 2.3) × 2

## Blower Inlet Filter

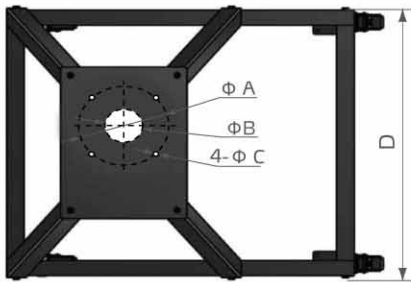
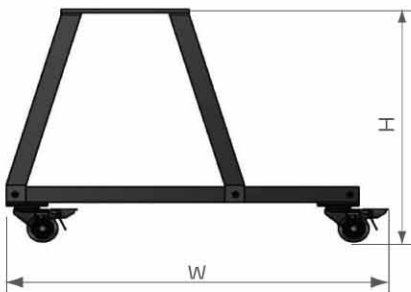


Model	Applied to
AIF-12	SHD-12
AIF-25	SHD-25
AIF-50	SHD-50/75
AIF-100	SHD-100/150
AIF-200	SHD-200~500
AIF-600	SHD-600
AIF-800	SHD-800~1000

Notes: refill air input of the blower is adjustable.

# SHD Series

## Options



### N-Type Floor Stand

With which machines can be easily moved out of workplace which is suitable for the factories with height limited workshops, also it can make operations more convenient.

Model	Applied to	Dimension (mm) H×W×D	A / B / C (mm)
FSN-50	SHD-12-75	600 × 700 × 640	140/54/9
FSN-100	SHD-100 / 150	615 × 800 × 710	210/90/11
FSN-200	SHD-200 / 300	680 × 1000 × 840	210/90/11
FSN-400	SHD-400 ~ 600	700 × 1200 × 1010	260/116 /13
FSN-800	SHD-800 / 1000	700 × 1600 × 1180	260/116/13



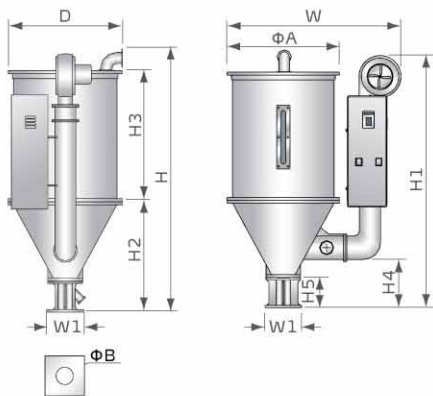
### Material Tank

Equipped with 38mm single-tube suction box, the tank is used to store and convey material to places like hopper loaders to avoid pollution.

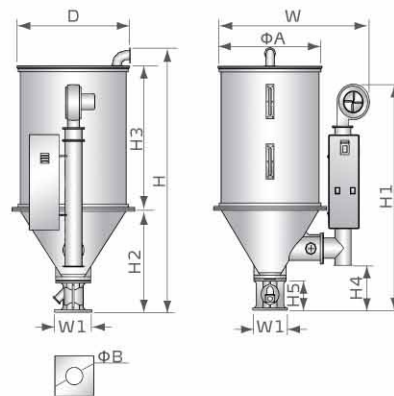
Model	Capacity (kg)*	Dimension (mm) H × W × D
MST-50	50	985 × 515 × 515
MST-100	100	1175 × 615 × 615
MST-200	200	1170 × 815 × 815
MST-300	300	1365 × 930 × 930
MST-500	500	1465 × 1240 × 1240

Notes: 1) "\*" stands for above loading capacity is based on pellet material of 0.65kg/L in bulk density and 3-5mm in diameter.  
2) Special models can be customized.

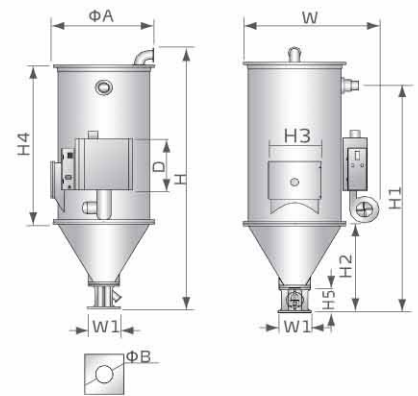
## Outline Drawings



SHD-12-300



SHD-400-600



SHD-800-1000



## ■ Specifications

Model	SHD-12	SHD-25	SHD-50	SHD-75	SHD-100	SHD-150	SHD-200	SHD-300	SHD-400	SHD-500	SHD-600	SHD-800	SHD-1000
Heater Power (kW)	2.2	3	3.9	4.2	6	6.6	12	15	18	19.5	21	24	32
Blower Power (kW, 50/60Hz)	0.05	0.12	0.12	0.12	0.12	0.12	0.18	0.18	0.18	0.18	0.55	1.1	1.1
Loading Capacity (kg)	12	25	50	75	100	150	200	300	400	500	600	800	1000
H (mm)	865	1015	1145	1240	1340	1580	1750	1985	2105	2285	2530	2700	3000
H1 (mm)	750	925	1045	1150	1340	1605	1480	1480	1840	1840	2015	2240	2470
H2 (mm)	375	410	380	475	470	470	550	550	775	775	775	950	950
H3 (mm)	370	460	520	620	725	970	975	1220	1220	1400	1545	540	540
H4 (mm)	181	194	206	208	233	233	247	247	302	302	302	1550	1845
H5 (mm)	150	150	150	150	158	158	158	158	222	222	222	222	222
W (mm)	660	725	840	900	955	955	1230	1230	1365	1365	1365	1420	1420
D (mm)	360	405	490	550	605	605	770	770	915	915	950	600	600
W1 (mm)	150	150	150	150	220	220	257	257	345	345	345	345	345
ΦA (mm)	325	385	470	530	595	595	750	750	910	910	910	960	960
ΦB (mm)	55	55	55	55	90	90	90	90	105	105	105	105	105
Net Weight (kg)	35	40	45	55	70	75	100	120	165	170	240	280	300

- Notes:
- 1) Install 24hr timer, add "T" at the end of the model code.
  - 2) Magnetic bases are applied to SHD-300 and models below, add "M" at the end of the model code.
  - 3) When applying double insulated layer, add "I" at the end of the model code.
  - 4) CE is added to model code when it is built to comply with worldwide electrical safety standards .
  - 5) Above loading capacity is based on pellet material of 0.65kg/L in bulk density and 3-5mm in diameter.
  - 6) Power: 3Φ, 230/400/460/575VAC, 50/60Hz.

We reserve the right to change specifications without prior notice.

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