



## "Standard" Hopper Dryers



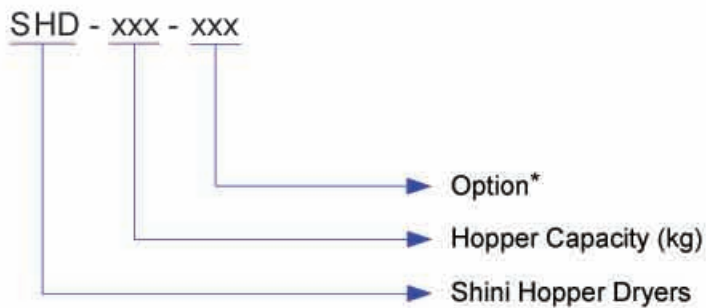
SHD-50



Refer carefully to the Manual before using products.



## ■ Coding Principle



Note: \*

E=Standard Base M= Magnetic Base (SHD-400 model and below)

T=Timer I= Double Insulated Layers

DT= Microprocessor with Timer

## ■ Features

### Standard configuration

- Adopt hot air diffuser to gain an even hot air flow to improve drying efficiency.
- Unique 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.

### Accessory option

- 24 hours auto start/stop timer and double insulated hopper are available as options.
- 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.



SHD-800



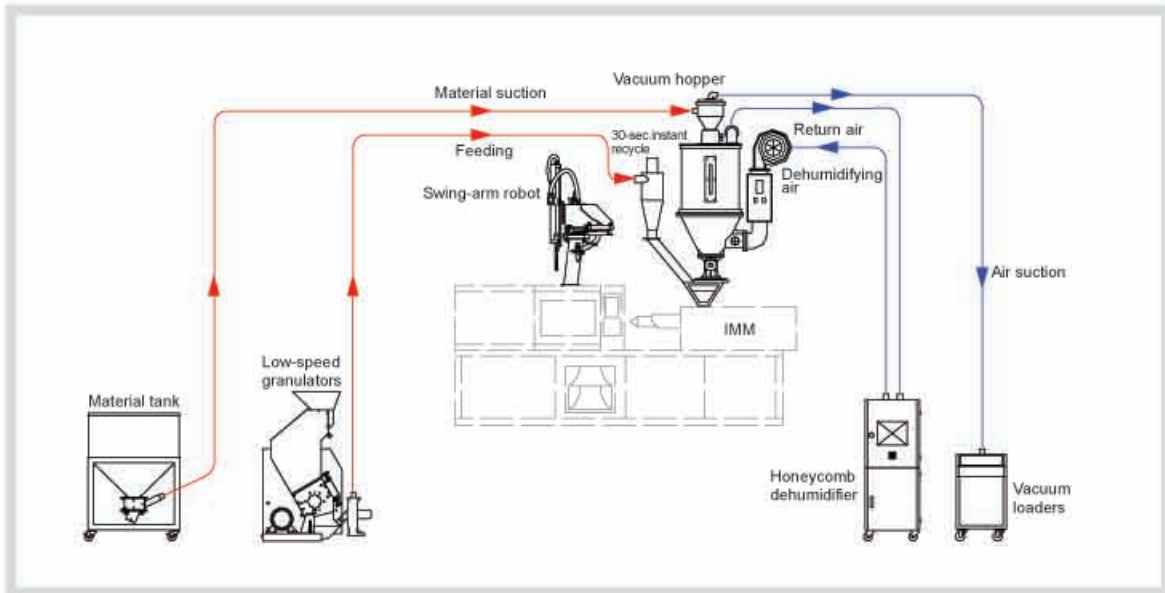
Hopper Inside



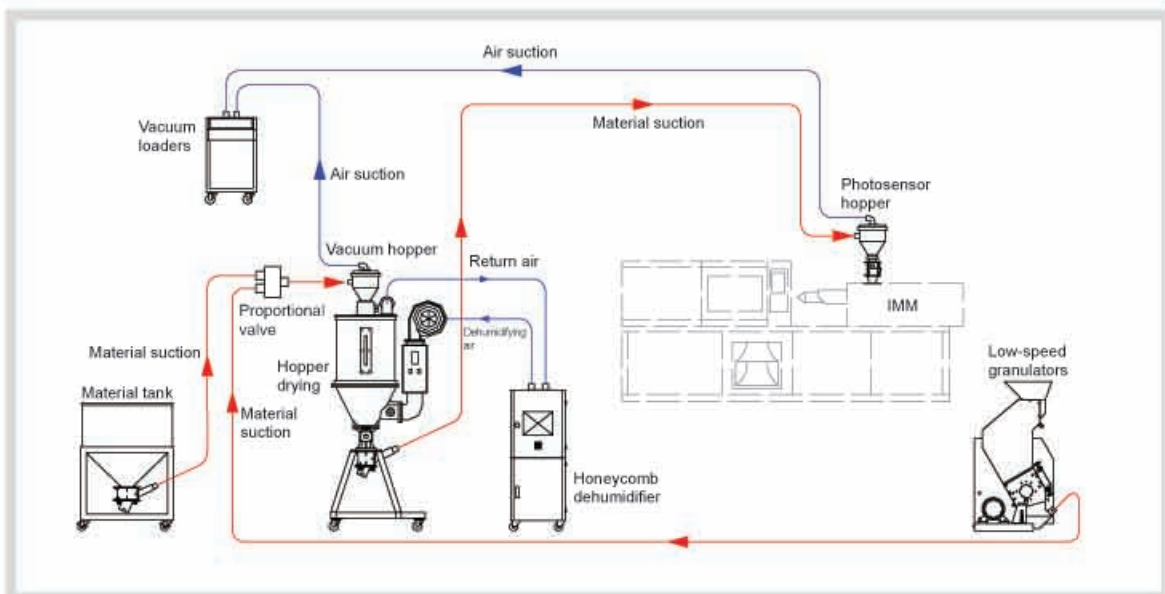
Control Panel (With timer)

## ■ Application

SHD series "Standard" hopper dryers offer an effective and low-cost method for plastic material drying. Hot air is used to dry wet materials that due to moisture absorption during packaging, transportation, and recycling cycles. They can be directly mounted on the moulding machine for quick drying and space saving. For this series, hot air blows evenly from bottom to the top (Both SHD-800 and SHD-1000 have down-blowing air pipe and accessible door for easy material clearance) of the hopper with capacity ranging from 12~1,000 kg.



SHD Direct Mounting

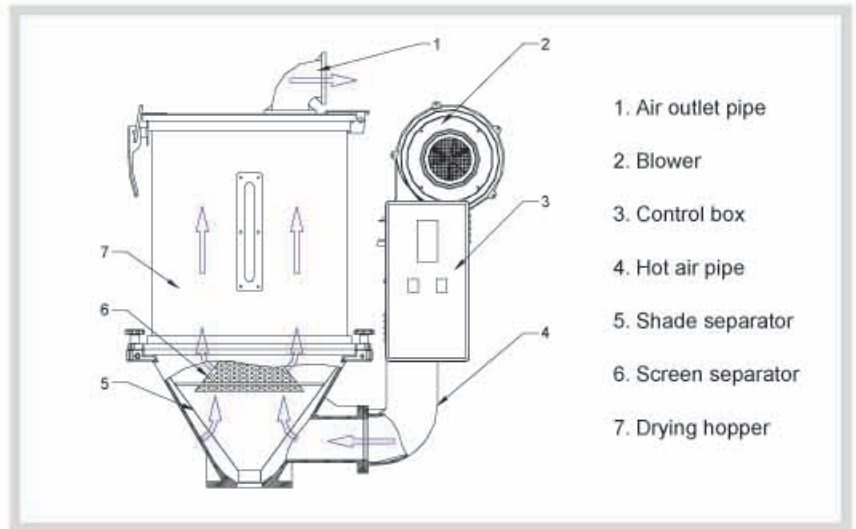


SHD Floor Stand Mounting

## 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 the picture). HAR is optional so the air enter drying blower after being filtered to form a closed loop circle and save electricity.



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

## Options



### Cyclone Dust Separators

Effective filters 80% dust-contain air which is discharging from dryer 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 99% 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) x2
MB-50	SHD-25~75		
MB-100	SHD-100~300		
MB-400	SHD-400 and above		

Made of aluminum with built-in hopper magnet, can effectively separate metal scraps out 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-800~1000

Note: Blower's air output is adjustable.

## Hot Air Recyclers



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 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 lower 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

## Material Suction Boxes

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



Model	Type	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

- Note: 1) Install pneumatic shut off valve (add "V" at the back of model).  
 2) Change into stainless steel (add "S" at the back of model).  
 3) Stainless steel polishing (add "P" at the back of model).  
 4) Single tube suction box (add "S" at the back of model).  
 Double tube suction box (add "D" at the back of model).

## Hopper Magnets

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



Model	Applicable Model	Aluminum Holder
MR-5	SHD-12	(148 x 80 x 2.3) x 2
MR-7	SHD-25~50	(190 x 80 x 2.3) x 2
MR-9	SHD-100~400	(240 x 80 x 2.3) x 2
MR-11	SHD-600 and above	(298 x 80 x 2.3) x 2

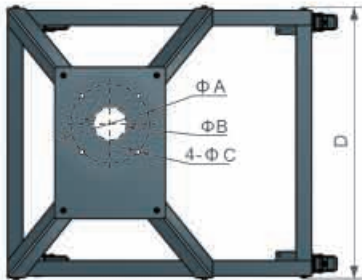
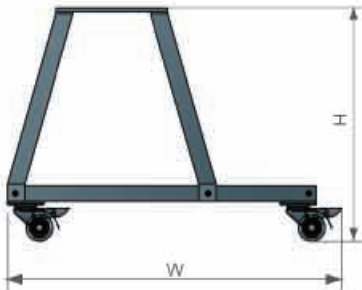
## Options



### N-Type Floor Stands

Can move the main body out of factory to overcome height limit in factory, convenient to move and freely be able to work for any other moulding machine.

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



### Material Tank

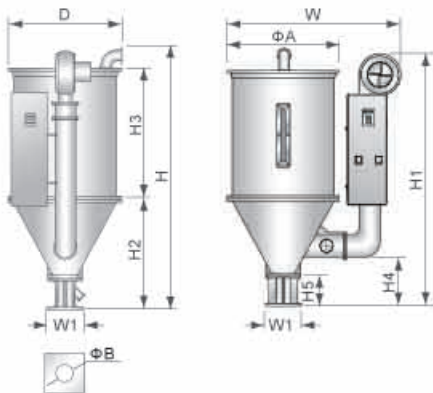
Includes 38mm single-tube suction box to store material for easy moving. And adapt with hopper loader for easy unloading and avoiding dust.

Model	Storage Tank Capacity (kg)*	Dimensions (mm) H X W X D
MST-50	50	985 x 515 x 515
MST-100	100	1175 x 615 x 615
MST-200	200	1170 x 815 x 815
MST-300	300	1365 x 930 x 930
MST-500	500	1465 x 1240 x 1240

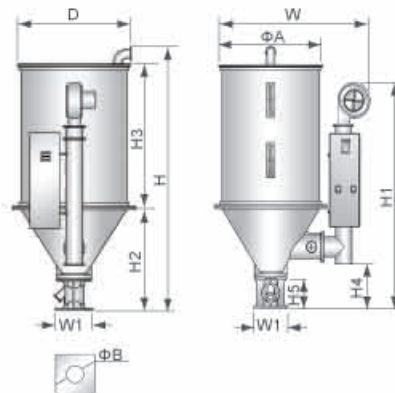
Note: 1) "\*" stands for above loading capacity is based on pellet material of 0.65kg/L in bulk density and 3~5mm in diameter.

2) Special modes can be customized.

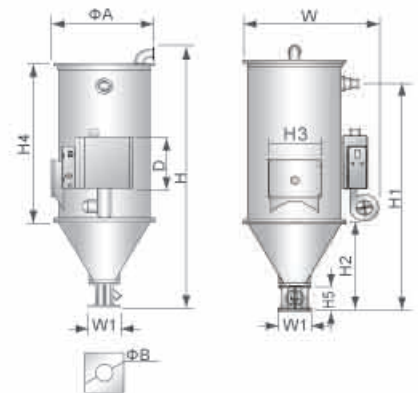
## Outline Drawings



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	0.55	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)	110	210	220	220	226	226	258	258	302	302	302	1550	1845
H5 (mm)	170	170	170	170	166	166	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
Weight (kg)	35	40	45	55	70	75	120	120	165	170	240	280	300

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-phase voltage. (Only applicable for SHD-75 and modes below).

5) Upon request, it can be built to comply with worldwide electrical safety standards.

6) Above loading capacity is based on pellet material of 0.65kg/L in bulk density and 3~5mm in diameter.

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

We reserve the right to change specifications without prior notice.



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