

VSH Hopper Standard Dimensions

VSH Hopper Dimensions (in inches)

ITEM	VSH 50	VSH 100	VSH 250	VSH 400	VSH 500	VSH 800
"A"	60	60	96	120	96	120
"B"	36	60	60	60	60	60
"C"	*	*	*	*	60	60
"D"	64.25	64.25	102.25	126.25	102.25	126.25

VSH Hopper Dimensions (in inches) with Discharge Screw

ITEM	DS Model	VSH 50	VSH 100	VSH 250	VSH 400	VSH 500	VSH 800
"E"	ALL	33.5	33.5	48	48	48	48
"F"	DS-4	49.5	49.5	67.5	80.5	67.5	80.5
	DS-6	48	48	66	79	66	79
	DS-9	46	46	64	77	64	77
"G"	DS-4	50	50	64.5	64.5	64.5	64.5
	DS-6	52	52	66.5	66.5	66.5	66.5
	DS-9	55.75	70.25	70.25	70.25	70.25	70.25

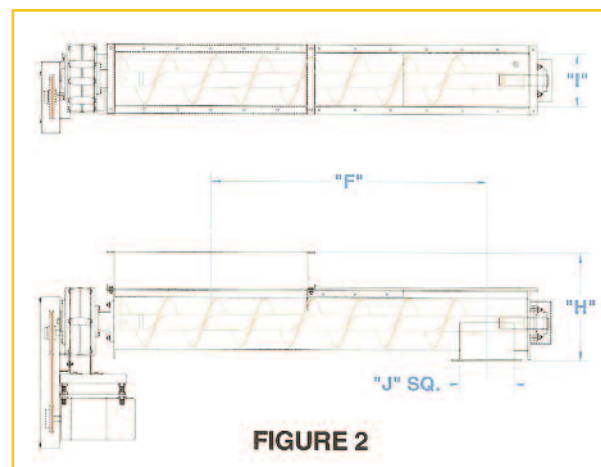
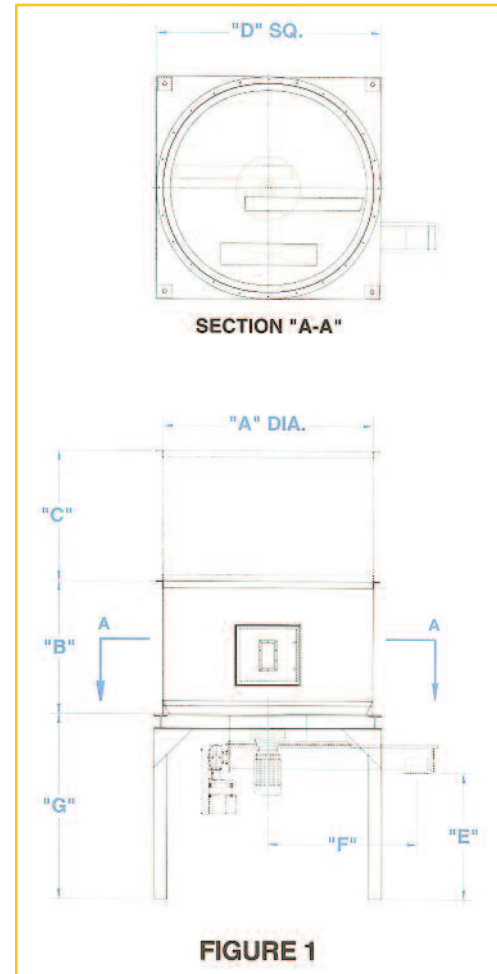
NOTE:

- Dim. "C" — additional spool piece not applicable on these models.
- Dim. "E" - discharge to pneumatic conveying.
- Consult factory for sizes or arrangements other than those listed above.

ITEM	DS-4	DS-6	DS-9
"H"	16.5	18.5	22.25
"I"	5	7	10
"J"	8	8	10

NOTE:

- Consult factory for sizes or lengths other than those listed above.

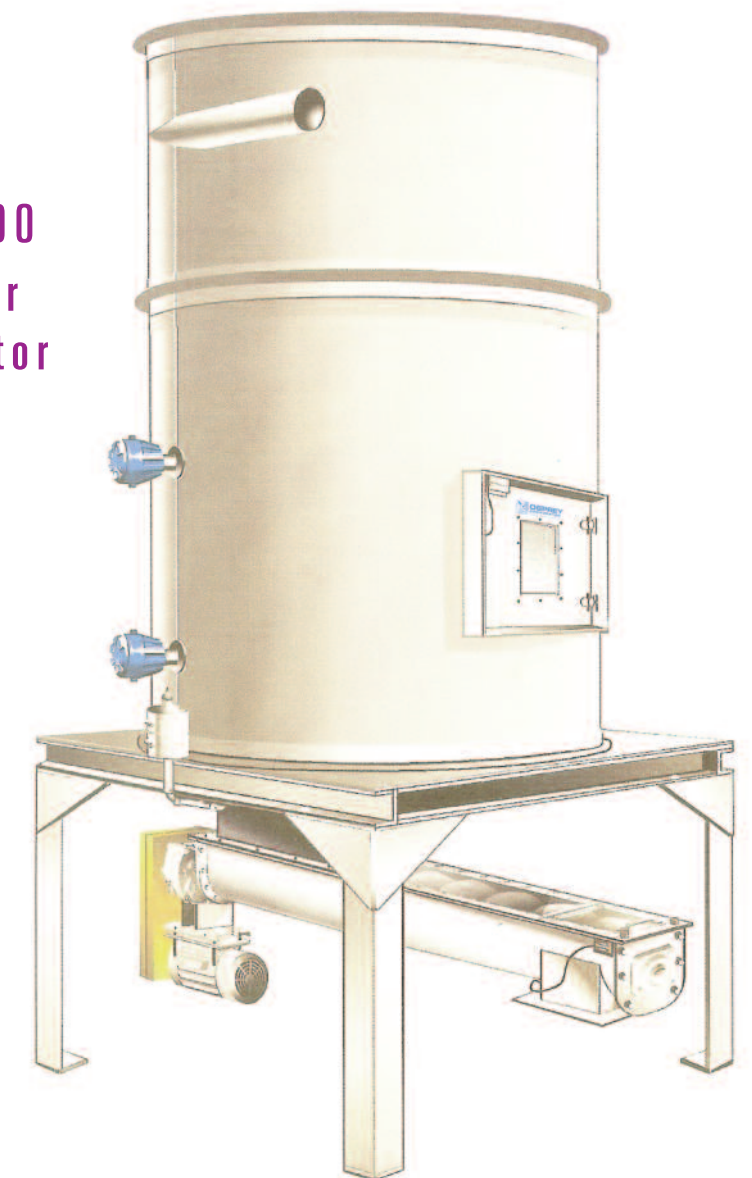



OSPREY CORPORATION
 1835 Briarwood Road, NE Atlanta, Georgia 30329
 Tel: 404-321-7776 Fax: 404-634-1401
 www.ospreyplastics.com



VSH Series Fluff Hopper

VSH-100
with air
separator
section



Purpose

Stores and volumetrically discharges low density fluff.

Application

Film, sheet, foam, and non-woven reclamation systems.

VSH Series: Fluff Storage Hopper

Vertical Storage Hopper

The VSH Hopper stores and volumetrically discharges regrind ranging from 1 lb. to 15 lbs. per cubic foot. The unique design has a cylindrical storage section with a fully swept flat bottom to assure no bridging in the hopper. The sweep arms are driven by a high torque, low RPM planetary reducer which continuously undermines material from the bottom. It in turn feeds the variable speed discharge screw conveyor, allowing material to descend uniformly. This design is a significant improvement over "U" shaped or cone bottomed hopper designs that cause regrind to bridge, pack, and rat-hole. The VSH Hopper can be designed to accommodate any feed rate as well as a wide range of storage capacities without increasing overall height.

Material loads into the hopper either manually or pneumatically via a High Efficiency Cyclone or Air Separator Section. The hopper mounts off the floor on standard support legs for pneumatically discharged material or on a structural platform when mounted over an extruder. Controls for the sweeper motor and discharge screw motor are located on the VSH Hopper control panel.



Discharge Screw Conveyor

The Discharge Screw Conveyor bolts directly to the hopper bottom and draws material uniformly from the entire length of the hopper feed opening. An adjustable slide plate bolts between the hopper and screw feed openings to prevent the weight of material in the hopper from stalling the screw motor. The drive motor allows for variable discharge rates.

All conveyors are built to CEMA standards and are equipped with screw conveyor reducers, heavy duty bearings, and easily replaceable shaft seals. The trough and screw components are made from the extra-strong category for long industrial life. The trough top is constructed of lexan with a hinged door for operator inspection.

Vertical Auger

The optional Vertical Auger circulates material to prevent packing and provides homogenization of the material in the hopper. Diameter and length are sized accordingly. The auger assembly is bolted construction and connects to the sweeper drive shaft. It can easily be added to an existing hopper. All vertical augers are built to meet CEMA standards from the extra-strong category and are equipped with a structural steel bearing support frame and heavy duty top support bearing.



Bin Vent

The insertable bin vent incorporates a pulse jet filter with an integral suction fan. Dust accumulates on the filter elements in the hopper and each element is cleaned by a pulse of compressed air. All dust returns to the hopper. The suction fan is sized to balance the transport air which keeps the hopper at near neutral conditions.

Air Separator Section

The Air Separator Section mounts to the top of the fluff storage hopper and separates material from the conveying air stream. Material enters through a tangential inlet and is directed downward along the side walls into the storage section. The Air Separator Section accommodates multiple air inlets from various conveying sources and has a compact design for areas with limited overhead space.

Other Options

Consult factory for prices on options listed below:

- Stainless steel construction for all material contact points.
- Customized support platforms over an extruder or densifier with access ladders or stairs.
- Hinged clean-out for screw conveyor trough.
- Bridge-free, plate housing magnets to separate tramp metal.
- Adjustable, "T" section air bleed maintains gravity feed when using transfer blower.
- Hinged top for manual loading with dumper
- Dust tight, pressure blowers for pneumatic material transfer.
- High efficiency cyclone separators.
- Insertable, pulse-jet bin vent dust filters mounted to hopper top plate.
- Pneumatic tubing, fittings, and compression coupling.
- Quick disconnect, QF Type ductwork, fittings, and clamps.

