



HIGH DENSITY PNEUMATIC CONVEYOR

SUPER DENSE FLOW

Super dense flow, vessel type



Super dense flow, feeder type

Because of its low speed transportation system, damage and breakage to the object transported and wear of the transportation pipe are few. In case of mixed transportation, deflection and separation during transportation are also controlled.

Materials with high bulk density, strong adhesiveness and high moisture which were so far said difficult to carry with low pressure air transportation system are now smoothly transported.

Because of the pneumatic transportation system utilizing a pressure tank, any kind of powder can be transported long way and in volume.

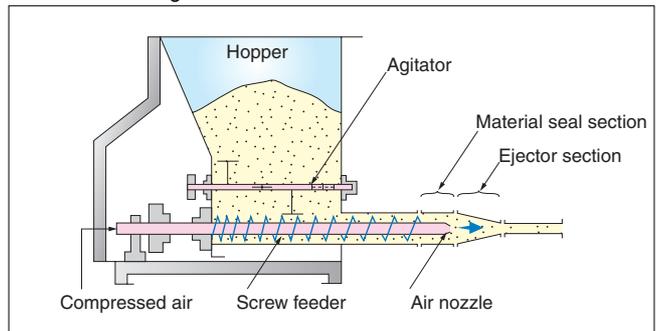
Because it consumes less amount of air, the power to operate the facility can be less and the terminal collection/separation device can be more compact and simplified.

When changing the object to be transported, the inside of the transportation pipe can be completely blown off and no contamination is left.

The route of piping can be freely chosen and, therefore, flexibly adjusted to the layout of the plant.

Mixing the powder with compressed air and transporting it at low speed and high density, problems of breakage and damage to the object transported and wear and clogging of the piping are solved. It is useful for the powder transportation covering from small quantity to mass quantity and long distance transportation.

Overall Drawing



Specifications of vessel type

Transportation tank		Transportation pipe diameter d	Transportation capacity [kg/h]
D [mm]	H [mm]		
300~500	600~1000	25A~50A	~2000
500~700	1000~1500	50A~100A	2,000~10,000
700~900	1500~2000	100A~125A	10,000~20,000
900~1200	2000~2500	125A~150A	20,000~

※The values in the table vary depending on the characteristics of the object and distance of the transportation.

※The values in the table are calculated assuming the use of single unit. However, parallel and serial transportation using two units are also possible.

Specifications of feeder type

Models	Capacity [kg/h]	Power (kW)	Transportation pipe diameter
SDF-F 65	~ 500	0.75	25A~40A
SDF-F 80	~1500	1.5	32A~50A
SDF-F100	~3000	2.2	40A~65A

High density pneumatic transportation <Vessel type>

Regardless of the shape and characteristics of the powder including bulk density, particle size, adhesiveness and moisture level, any kind of powder can be stably transported. As the object is transported at high density (high mixture ratio), there are no damage and breakage to the object and no wear and clogging of the transportation pipe.

High density pneumatic transportation <Feeder type>

A high density transportation unit, utilizing material sealing characteristics of the powder and adopting a screw feeder method to enable continuous transportation. As the air consumed is less, diameter of the transportation pipe can be made smaller and the terminal air processing unit also can be made smaller, which makes it an ideal easy transportation unit for various powder.