

VACUUM CONVEYOR

EXAMPLE OF MATERIALS THAT HAVE BEEN TESTED BY SOLID

Acetylsalicylic acid
Aerosil
Aluminium oxide
Aluminium stearate
Baron acid
Brewer's yeast
Calcium chloride
Calcium stearate
Calcium nitrate
Carbon, active
Carrots, dried
Caustic soda
Cellulose powder
Citric acid
Cocoa beans
Cocoa powder

Coffee
Coffee beans
Colour powder
Detergents
Dextrose
Dicalite
Fat substance
powder
Filter material
Fish food
Fish food pellets
Gelatin powder
Graphite powder



PVC powder
Resin powder
Rice
Rubber granules
Rye flour
Salt
Sand
Senegal potash
Silica
Soap flakes
Sodium perborate
Sodium sulphate
Soya flour
Spices
Sprinkles
Starch
Sugar caster
Sugar, granulated
Talc
Tea
Tensides
Titanium dioxide

Gun powder
Gypsum
Iron oxide
Kieselguhr
Lactose
Lime
Magnesium oxide
Maize flour
Maize, grains
Maize starch
Malt
Manganese dioxide
Melt glue granules
Micromaya
Milk powder
Muesli
Mustard seeds
Nib sugar
Nickel powder
Zinc white
Nuts
Peas

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What it's Vacuum Conveyor?

Vacuum is used with great advantage in conveying dry powder products through dedicated pipe systems solid vacuum conveying systems are built of high quality material.

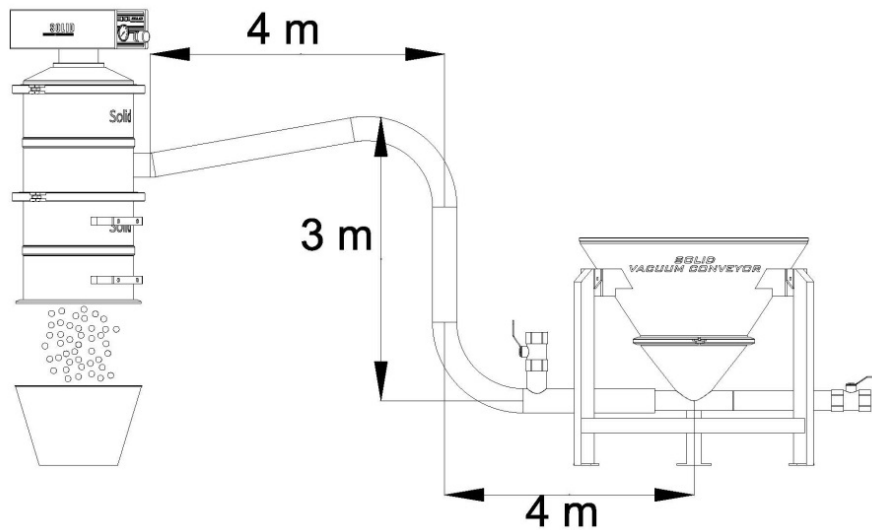
When producing food, pharmaceuticals and chemical products there are demands on the highest possible degree of safety as to hygiene and operation. SOLID vacuum conveyors have been developed as an answer to the severe requirements of operational safety and hygiene in the food, pharmaceutical and chemical industries.



Main Advantages

- Automatic filter cleaning
- Low noise level
- Quick deliver (stock)
- System
- Minimal maintenance
- Low energy consumption
- Simple to install
- Polished steel
- Compact size
- Dustless conveying
- Made of acid-proof
- Easy to maintenance
- Light weight
- Easy to installation
- Easy to clean

VACUUM CONVEYOR



HOW TO SELECT A STANDARD CONVEYOR

EXAMPLE ...

The Sugar Company needs to convey 0.8 tons of granulate Sugar per hour up to a mixer where the sugar is mixed with cacao powder. The mixer is located 11 meters from the Feed station

The power requirement (P_r) of the applications is the same as the customer's capacity requirement. Hear the P_r figure, which is the product of capacity and conveying distance, is calculated.

- ▶ Material : granulated sugar
- ▶ Capacity : $C = 1.2$ ton/hour
- ▶ Vertical conveying distance : $L_v = 3$ meters
- ▶ Horizontal conveying distance : $L = 4 + 4 = 8$ meters
- ▶ Total conveying distance : $L = L_v + L = 3 + 8 = 11$ meters
- ▶ Characteristics of granulated coffee
 - Bulk density $B = 0.8$ ton/m³
 - Particle size $P = 0.2$ mm
 - The coffee is a free flowing product

$$Pr = C \times L = 0.8 \times 11 = 8.8$$

▶ Pr : Power requirement

SOLID vacuum conveyor "SOLID 200" will be the best choice when the $Pr = 10 \sim 20$ in this Example,

To check ;

- ▶ Bulk density, $B = 0.8$ ton/m³ ($0.5 < B < 18$) OK!
- ▶ Total conveying distance, $L = 11$ m, ($4 < L < 30$) OK!
- ▶ Particle size, $P = 0.2$ mm ($P < 5$ mm) OK!

Note ; The above is only a suggestion in order to facilitate the choice of
There are many applications in the market, some with higher and some with lower values than the values mentioned here.
Therefore, please contact our VTEC for more detailed product information.

VACUUM CONVEYOR

"Type SOLID 100 ..."

Supply air pressure	: 4 ~ 6 bar, (Max 7 bar) (58 ~ 87 psi, Max. 101.5 psi)
Air consumption	: 300 ~ 420 NI/m (10.59 ~ 14.83 scfm)
Power Requirement	: 3 -6
Noise level	: 68 ~ 76 dBA
Steel Material	: SUS 304 / SUS 316L
Sealing Material	: Silicone
Filter Material	: • TFE coated antistatic needle felt of polyester / carbon fibers • Washable 2 to 4 times in 40°C • Food quality
Working temp.	: - 20°C ~ + 80°C



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Ordering Information

SOLID 100 L - EC - 4
 ↓ ↓ ↓ ↓
 ① ② ③ ④

1. Vacuum pump

100 - Vacuum Pump with Free flow silencer
 - (Standard)

2. Filtration Area

No mark - Standard (14 dm²)
 L - Extra large (26 dm²)

3. Control Unit

EC - Electric control.
 - Adjustable running time / discharge time.
 Available level

4. Bag filter (Blowing)

No mark - Standard (11 dm²)
 0.5m - Extra large

Specification

Model	Max.Conveying Capacity (ton)	Capacity ton/h at different conveying distance				Rec. Material Pipe dimension	Rec. Material Volume	Weight (kg)
		5m	10m	20m	30m			
SOLID 100	0.9	0.9	0.45	0.22	-	22 / 32	1	15

VACUUM CONVEYOR

"Type SOLID 200 ..."

Supply air pressure	: 4 ~ 6 bar, (Max 7 bar) (58 ~ 87 psi, Max. 101.5 psi)
Air consumption	: 600 ~ 780 NI/m (2118 ~ 27.54 scfm)
Power Requirement	: 5 - 10
Noise level	: 68 ~ 76 dBA
Steel Material	: SUS 304 / SUS 316L
Sealing Material	: Silicone
Filter Material	: • TFE coated antistatic needle felt of polyester / carbon fibers • Washable 2 to 4 times in 40°C • Food quality
Working temp.	: - 20°C ~ + 80°C



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Ordering Information

SOLID 200 L - EC - 4
 ↓ ↓ ↓ ↓
 ① ② ③ ④

1. Vacuum pump

200 - Vacuum Pump with Free flow silencer
 (Standard)

2. Filtration Area

No mark - Standard (14 dm²)
 L - Extra large (26 dm²)

3. Control Unit

EC - Electric control.
 - Adjustable running time / discharge time.
 Available level

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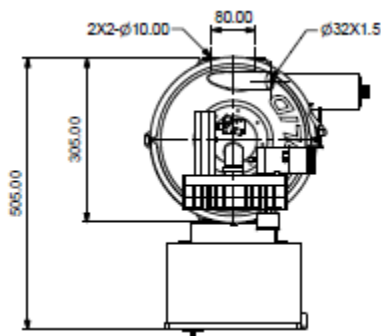
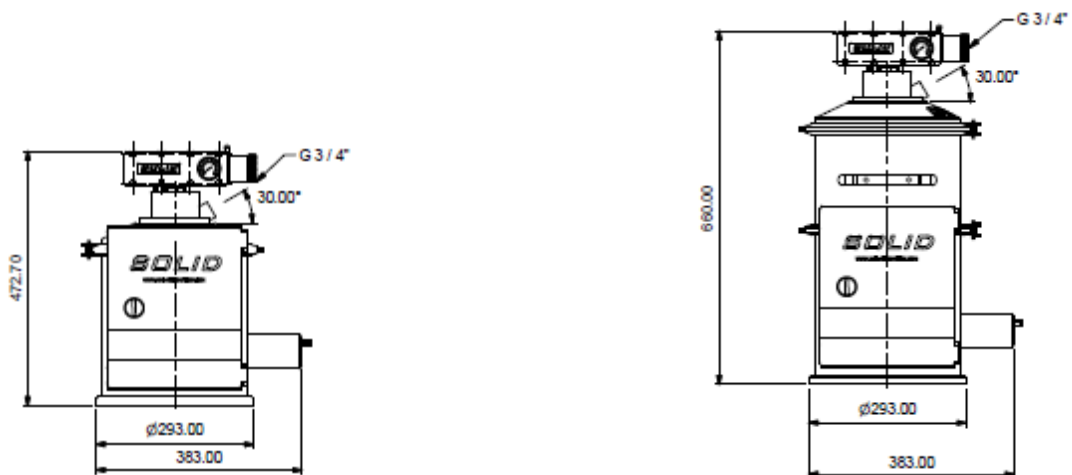
Specification

Model	Max.Conveying Capacity (ton)	Capacity ton/h at different conveying distance				Rec. Material Pipe dimension	Rec. Material Volume	Weight (kg)
		5m	10m	20m	30m			
SOLID 200	1.5	1.5	0.8	0.4	0.2	32 / 40 / 50	4	22

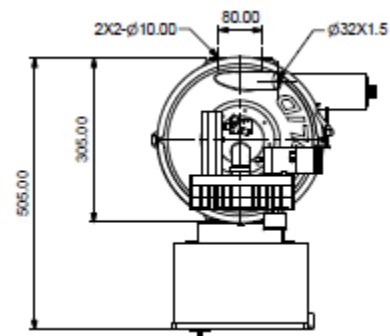
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Dimension Information

Series SOLID 100... / 100L...



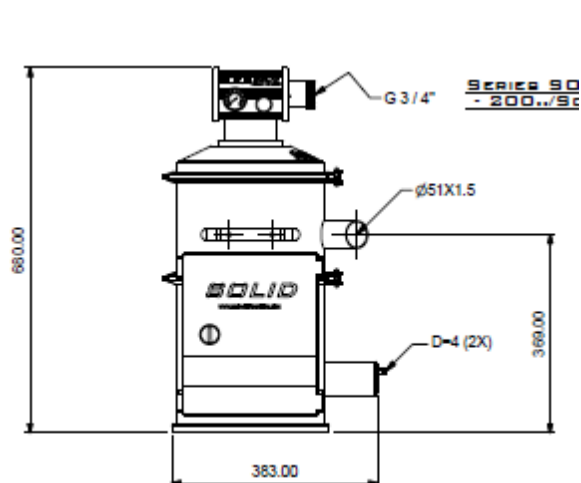
SOLID 100



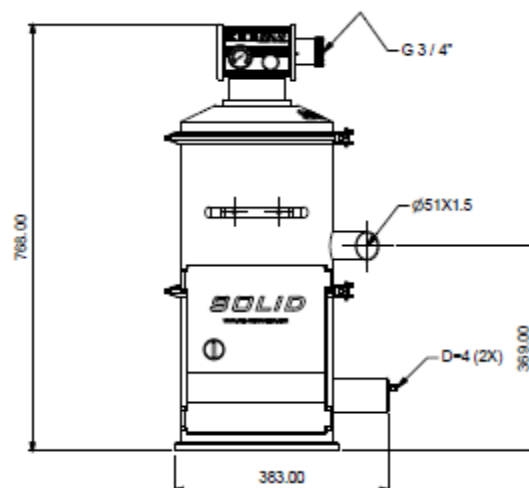
SOLID 100L

Dimension Information

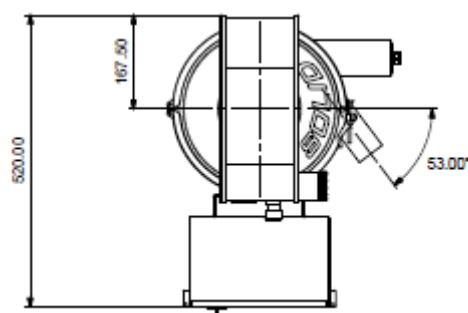
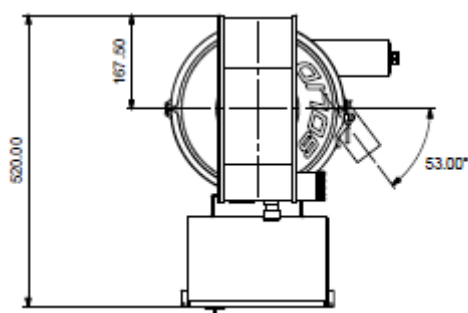
Series SOLID 200... / 200L...



SOLID 200

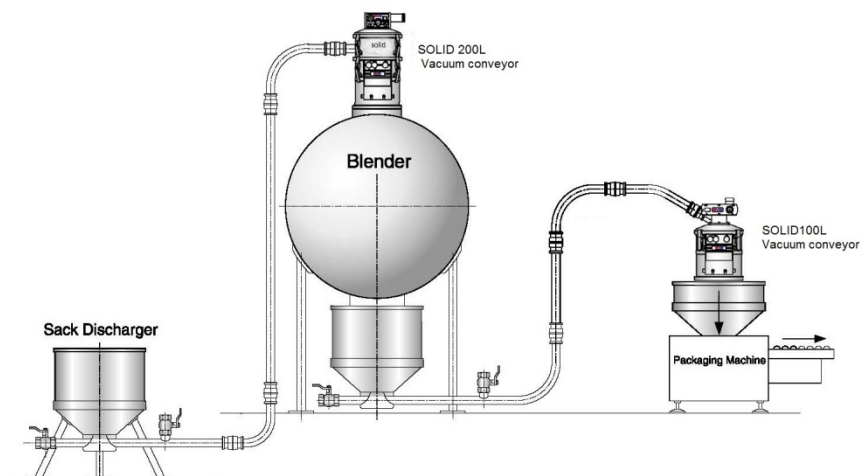


SOLID 200L



VACUUM CONVEYOR

Application



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Application



Tablet machine



Tank mixer



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Cube mixer



Note...

Note...