

Air Blow Feeder (Ryoko Industry Co., Ltd.)

1. The machine that conveys powder fluidly by air pressure
2. The conveying system by air pressure can carry wet/dry powder and water.

It is a dry/wet powder/bulk conveying machine which has been developed, aiming to the highest peak of the powder conveying by air pressure and using an advanced technology.

The fluidized type dense conveying machine under low or middle pressure

- Wet powder, irregular shape, high bulk density and ultra-fine powder can be conveyed stably.
- You can freely set the pressure and the density of conveyance according to the characteristics of the material to be conveyed.
- It is possible to convey in a long distance at the air pressure of equal to or less than 29 psiG.
- You can wash the machine by conveying water and dry it by blowing.
- Because of a little quantity of air to be used, the whole system can be compactly assembled.
- The machine discharges all material, so there is no remaining in it after conveying.

You can easily control the throughput and speed of conveying.

- You can convey powder mixed with the big different bulk density each other without any problem. You can minimize the pulverization of the crystal by conveying at low speed.

The simple and user-friendly easy-to-use structure

- There are a continuous conveying type, a batch type, and a batch continuous type. You can make a free plan to adjust the machine according to your purpose.
- You can convey material in measuring volume and you can convey material to more than one destination.
- By the closed circuit conveying system, it improves quality control & work environment and reduces the production running cost.
- It can easily retrofit to the existing factory in a small space.

< Application example >

Wet material can be batch-continuously transported from to “The centrifugal spin dryer” to “The dryer” at 10 metric tons/hr.

< Material to be transported – successful results >

food, damp salt, granulated sugar, powdered sugar, seasoning, flour, cornstarch, premix flour, cereal, meal, chemicals, resin, agrochemicals, Bicarbonate of hydrogen ammonia, Hypochlorous acid calcium, metal, iron oxide, titanium oxide, ferrite, magnesium, manganese ore, iron particles, ceramics, cement, coal, clinker, kaolin, abrasives, silica, pigment, paint, pharmaceuticals, activated carbon, coal, feed, dust, etc.



< Results – installed >

Material	Bulk density	Average Particle size	Transportation distance (vertical)	Transportation distance (horizontal)	Throughput
	(lbs/cf)	(mm or micron)	(feet)	(feet)	(Metric tons/hr)
Damp salt (wet salt)	75	0.5-1 mm	66	164	15
Pulverized rock salt	69	0.1-5 mm	16	164	4
Refined sugar	52	0.5 mm	13	33	3
Powder sugar	44	50 microns	13	46	6.5
Granulated sugar	53	0.3 mm	20	197	4
Premix flour	31	20 microns	13	33	3
Polished rice (1min.after washing)	50		13	82	1
Potassium chloride	90	0.5 mm	13	33	4
Melamine	38	20 microns	16	132	9
Iron oxide	188	1-10 mm	99	757	15
Cast sand	88	1mm	20	263	16
Abrasives	50	1-5 microns	20	82	5.5
Abrasives	48	30 microns	7	33	1
Resin pellet	25	5 mm	16	82	3
Rubber pellet	25	6 mm	13	66	1.2
Agrochemicals	44	2 mm	20	164	5
Fermentation compost	38	Irregular	16	148	6

< Manufacturer & Test place >

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