

Pneumatic Batch Blender/ Transporter



WHIRL-AIR-FLOW

pneumatic batch blending for the process industries

Whirl-Air Batch Blender/Transporters can handle a variety of dry materials in a wide range of particle sizes and densities. Pneumatic blending provides thorough, dust-free mixing with extremely low sheer and blend times of only two to five minutes. The unique Whirl-Air design uses dense phase pneumatic conveying to deliver the blended batch without segregation to one or more process areas. The Blender/ Transporter combination also features the capability to deliver different batch weights to the multiple process areas.

Whirl-Air Batch Blender/Transporters can easily be mounted on a load cell weighing system to weigh ingredients or check weigh a batch. The controls system allows fully automatic operation.

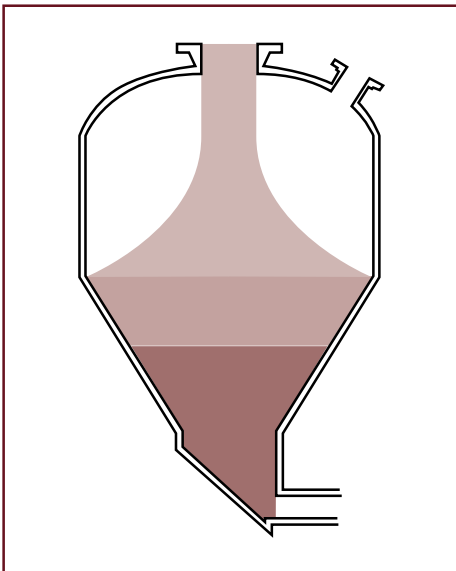
Batch Blender/Transporter Features

- Five to 500 cu. ft. typical capacities
- Solid State blender controls
- Stainless or mild steel construction
- Designed to A.S.M.E. (if required)
- Shipped fully assembled for immediate installation

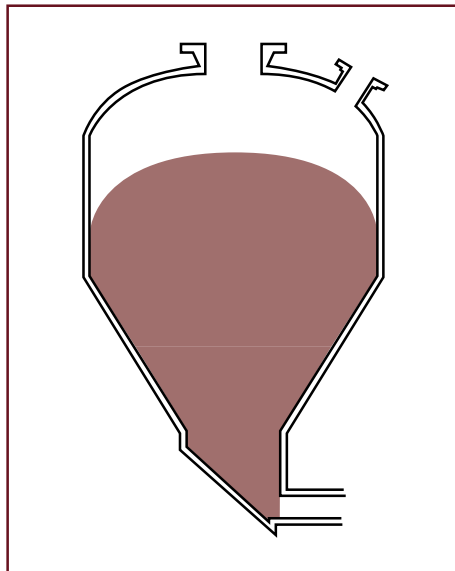
Typical Batch Blender/ Transporter Product Applications

- Fiberglas Batch
- Cleansers/Detergents
- Ceramic Batch
- Tile Grouts
- Pigments
- Dry Cake Mix
- Pancake Mix
- Cake Mix
- Dry Powdered Cereals
- Soups (Dry Mix)
- Tire Pigments
- Pastrys
- Battery Mix
- Plaster
- Clay Blends
- Pharmaceuticals
- Powder Drink Mix
- Powdered Metals

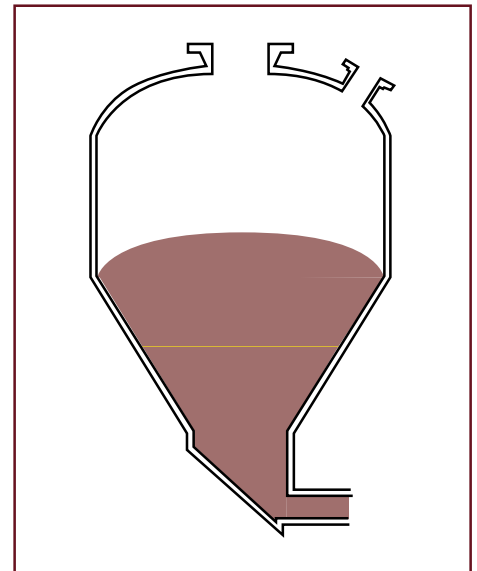
Batch Blender/Transporter Sequence of Operation



Filling - blender is filled by gravity from the batch/scale hopper above. Manual additions can be made using a Whirl-Air manual bag emptier.

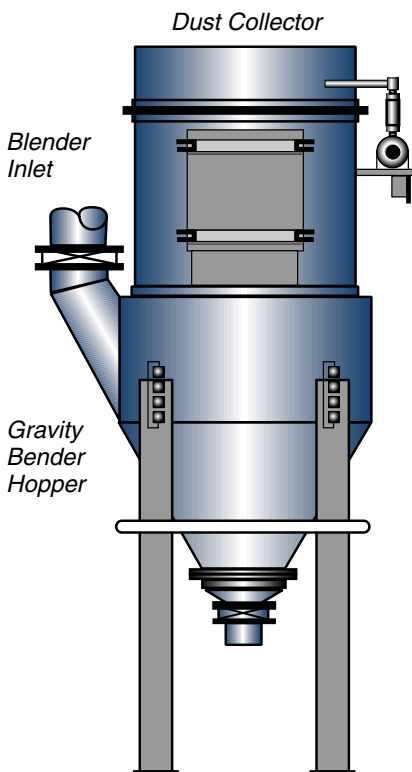
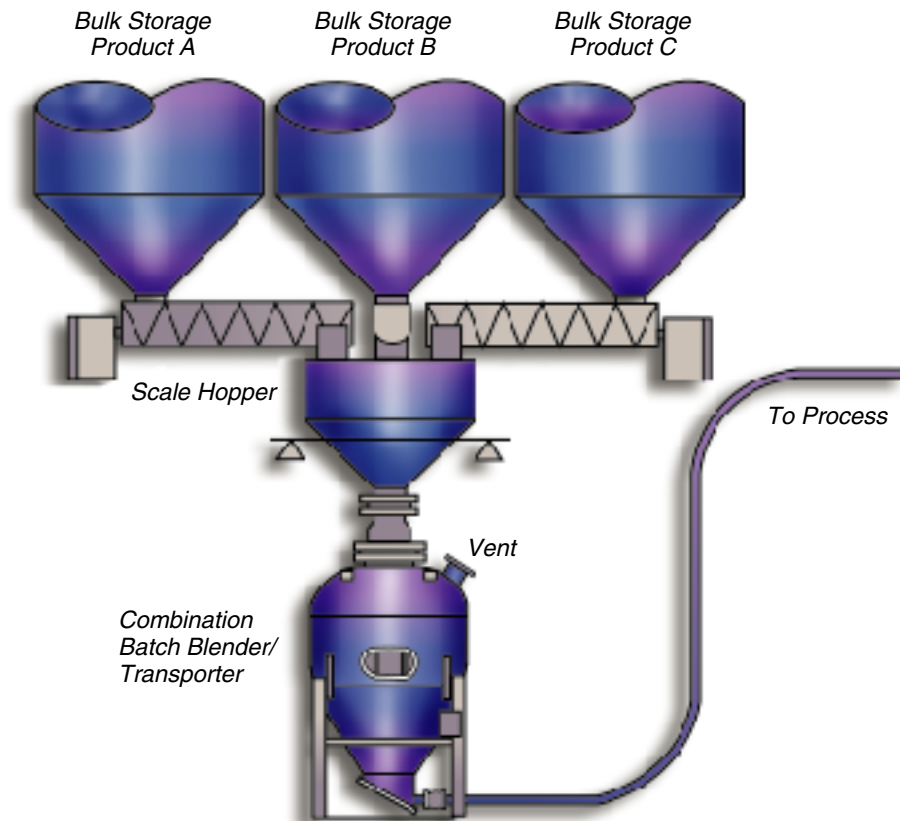


Blending - products are homogeneously blended in cycles from two to five minutes using plant compressed air.



Conveying - blended product is pneumatically conveyed to process area. Gravity discharge models are also available.

typical configurations



Typical Automatic System

Overhead storage silos feed product to weigh hopper by screw conveyor or other volumetric feeder. Blender receives weighed batch, blends and conveys mixed batch to process. Whirl-Air often supplies minor or micro ingredient systems to accurately add small weighments to each batch. Whirl-Air typically provides comprehensive systems to fully automate the entire process.

Typical Manual System

This self-standing system has a gravity discharge blender with manual filling inlet.

Options

- **Liquid Addition** - for dust control, adding perfumes to soaps, etc. without balling or clumping.
- **Minor Addition** - can be hand added or weighed automatically for addition to batch prior to blending.
- **Check Scale System** - can be scale mounted to act as a check scale to ensure majors and minors are added to batch prior to blending.
- **Deliver To Multiple Stations** - capable of delivering different batch weights or formulas to multiple process areas.

Typical Materials Handled

- Alumina
- Bentonite
- Borax
- Boric Acid
- Calcium Carnoate
- Cements
- Clays
- Coal
- Cullet
- Silicon Metal
- Titanium Dioxide
- Gypsum
- Dolomite
- Feldspar
- Florspar
- Flavorings
- Flour
- Glass Beads
- Graphite
- Sand
- Soda Ash
- Zinc Oxide
- Diatomaceous Earth
- Iron Powder
- Lead Oxide
- Lead Pigment
- Lime, ground
- Phosphate
- Polyethylene powder
- Salt
- Sugar
- Animal Feeds

engineering data & specifications

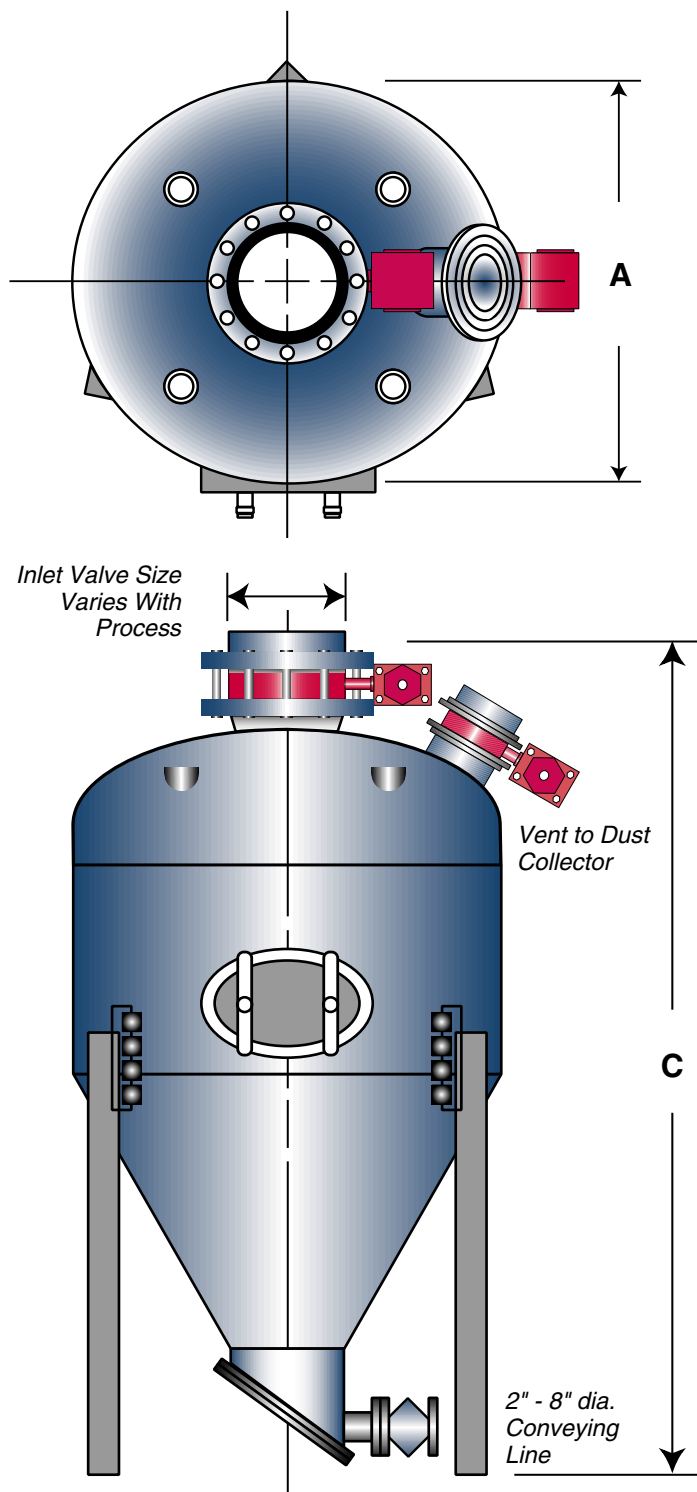
Typical Capacities & Dimensions

Model	Capacity	A	B
50	5 cu. ft.	3'-6" OD	5'-1"
100	10 cu. ft.	3'-6" OD	5'-7"
150	15 cu. ft.	3'-6" OD	6'-8"
200	20 cu. ft.	3'-6" OD	7'-9"
250	25 cu. ft.	3'-6" OD	8'-10"
300	30 cu. ft.	3'-6" OD	9'-11"
350	35 cu. ft.	5'-0" OD	8'-2"
400	40 cu. ft.	5'-0" OD	8'-8"
500	50 cu. ft.	5'-0" OD	9'-8"
600	60 cu. ft.	5'-0" OD	10'-8"
700	70 cu. ft.	6'-0" OD	10'-3"
800	80 cu. ft.	6'-0" OD	11'-0"
900	90 cu. ft.	6'-0" OD	11'-9"
1000	100 cu. ft.	6'-0" OD	12'-6"
1250	125 cu. ft.	6'-0" OD	14'-3"
1500	150 cu. ft.	6'-0" OD	16'-1"
1750	175 cu. ft.	6'-0" OD	17'-10"
2000	200 cu. ft.	6'-0" OD	19'-8"

Whirl-Air Batch Blender/Transporters are custom built for each specific customer application. Actual dimensions may vary depending on capacity.

Whirl-Air Batch Blender/Transporters are shipped with full electrical wiring and compressed air piping factory installed to minimize installation time and expense.

Whirl-Air-Flow reserves the right to change product specifications without notice.



Whirl-Air-Flow Corporation

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