Bulk Solids Conveying

Two versions - Stationary and Mobile!

No overhead mountings

Eliminate waste

Precise metering available

Eliminate laborious manual bulk powder handling and tank filling

Standard Ground Hopper
Stationary and Mobile Versions!

Application: Conveying of bulk ingredients

Automated handling of bulk ingredients can reduce labor cost, improve production efficiencies and throughput, reduce wastage (material cost), and improve overhead costs - and maintain a cleaner, safer working environment for your employees.

Integrate Gruber's bulk solids conveyor systems with Gruber's Autocaster™ series continuous casting systems, or with other metering, batching, casting processing requiring bulk materials and fillers.

Gruber's bulk solids conveyor systems convey a wide variety of powdered, granular, pelletized or other materials, including calcium carbonate, or other materials that may be "difficult" to convey with ordinary bulk or screw type conveyers.

Reduce labor costs further by adding an optional Bulk Bag Suspender to your Ground Hopper, and process more economical bulk bags (super sacks) for continuous manufacturing processes. Select from a variety of customization options to suit your requirements, including roller conveyers, mobile upgrades, electronic PLC-controlled precise automated metering, and more.

Standard Ground Hopper shown.
Mobile version also available!

Features:

Ground Hopper with Screw Drive Conveyor

- 50 lb (23 kg) per minute output capability
- Solid core auger constructed from carbon steel, standard pitch (i.e. pitch = diameter). 45 or 60 degree incline
- Overall height 57.5" x 42.5" x 45" (LWH) excluding auger
- Standard auger can be repositioned from 7 - 10 foot heights. Custom augers are also available.
- Large, rugged 15 cubic feet capacity bin constructed of 12 gauge carbon steel
- Powerful 1 HP 120/230/460 volt motor; upgrade up to 3 HP maximum
- Sealed dust tight drive and idler bearings with transmission ratio of 20:1 (standard)
- Pneumatic vibrator for anti-bridging control
- 2-way forklift entries for convenient positioning
- Includes screen for reducing introduction of bag scraps and other debris from reaching auger
- Includes chain clamps for securing bulk bag hopper support
- Mobile version available with wheels - or upgrade the stationary standard ground hopper with upgrade kit.

Other Ground Hoppers include:
Polymer Concrete version of Standard Ground Hopper,
PLC-controlled Self-Metering,
and Pneumatic Transport Ground Hoppers

Order Information:

Cat. No.	Description
1000AGH	Ground Hopper (Stationary)
1000CA	Ground Hopper (Mobile Version - includes wheels)
Accessories (see opposite page for complete line)	
150160	Bulk Bag Suspender Frame
0831208	Bulk Bag Gantry, 4 leg, 10'
0831215	4000 lb Electric Hoist
0831217	4000 lb Trolley
0831216	Bulk Bag Roller Conveyor, 10'
1000CA	Mobile (Caster Wheel) Upgrade Kit
Crating	
CEHOPPER	Crating For Ground Hopper
For Accessory Crating, refer to product page for that item	

Ground Hoppers - General Accessories

Each Gruber Ground Hopper offers a variety of optional accessories to further automate your bulk material handling system:

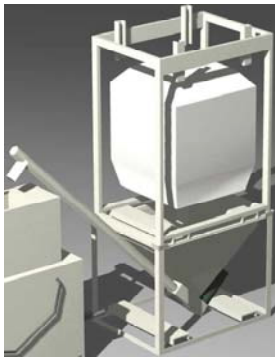
Bulk Bag Suspender Frame

The optional Bulk Bag Suspender Frame allows the option of mounting larger, more economical bulk bags ("Super Sacks") above Gruber's Ground Hopper™ bulk solids conveyors. Mounting large bulk bags reduce interruptions during the manufacturing process, and reduces labor costs normally associated with manual loading of a metering or feed hopper – particularly when compared to manual loading of smaller bulk material bags. Automation of the bulk material handling system also results in a cleaner, safer working environment and more efficient manufacturing workflow.

Gruber offers a number of other accessories to further automate delivery and positioning of bulk solids – including powdered, granular or other bulk ingredients – such as calcium carbonate and other "difficult" materials. A forklift is generally used to load super sacks into position*, but Gruber also offers other material loading and positioning options, including Bulk Bag Gantries, Roller Conveyors to provide a number of possible material loading configurations.

Features:

- Designed to sit above a Gruber Ground Hopper, and allow positioning of a super sack for drainage into the Ground Hopper
- 4 way forklift entry for easy positioning of super sacks
- The entire can be dropped to ground for bulk bag loading (with a forklift)
- Rated for maximum 2500 lb bulk bags
- Adjustable hook height



* Note: Requires fork lift access to lift super sacks into position.

Order Information:

Part No.	Description
150160	Bulk Bag Suspender Frame
0831516	Bulk Bag Support - Freestanding
CEBBS	Crate - Bulk Bag Suspender Frame

Mobile Upgrade

Upgrade a standard Ground Hopper or purchase one already configured for portability to service multiple casting, batching or mixing stations - such as day tanks, multiple Autocasters, or other requirements. **Upgrade PN 1000 AC**

Bin Lids - Minimize contamination with a metal hopper lid.

Metering Control Options - Call for information.

Load Cells - Call for information.

Automatic Casting Tables

Cart allowing repositioning and height adjustments to your existing conveyor system and the Autocaster. **#150111 (XY)** or **#150110 (XYZ)**

Bulk Bag Roller Conveyor

Bulk bag conveyors facilitate the movement and storage of pallets containing bulk bags (super sacks) from a fork-lift access point to a Bulk Bag Gantry (also available separately).

Conveyors are heavy duty 2" diameter, 12-gauge galvanized steel rollers; with roll-formed heavy-gauge galvanized steel channels. Channels are reinforced laterally with cross-braces. Conveyor are secured to the floor (mounting hardware is included).

Order Information

Part No.	Description
RCBB10	Bulk Bag Roller Conveyor, 10'
0831216	Bulk Bag Roller Conveyor, 10'
R163622	Bulk Bag Roller Conveyor, 20' was Bulk Sack Pallet Conveyor
CEROLLCON	Crate - Roller Conveyor

Bulk Bag Gantry

The 4-leg bulk bag gantry is used to transport a bulk bag from a pallet and suspend it over the ground hopper using a hoisted trolley.

- For overhead lifting and dispensing of bulk bag fillers into floor hoppers for automated casting machines or automated batching systems
- Where applicable, can be used to hold bulk bags directly over metering hoppers for use with systems without floor hoppers
- Gantries are manufactured from heavy duty steel components and finished in powder-coat.
- Rated for a maximum lifting capacity of 3,000 lb.
- Cable trolleys provided to carry and guide hoist's power supply chord
- Bulk bags can be lifted from the ground with the hoist – no forklift access to ground hoppers required

Order Information

Part No.	Description
0831208	Bulk Bag Gantry, 4 leg, 10'
162768	Bulk Bag Gantry, 4 leg, 15' (10' I-Beam, Bulk Bag Suspender)
0831215	4000 lb Capacity Electric Hoist
0831217	4000 lb Capacity Trolley
CEGANTRY	Crate - Bulk Bag Gantry

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