

Applications limited only by your imagination...

Any operation that elevates granular, powdered or pelletized bulk material can be revolutionized with the OLDS ELEVATOR Vertical Conveyor. Here are just a few real-world examples. Our experts can provide additional information on these and other diverse applications.

Grain Processor – Two 6-inch diameter, 25-foot tall OLDS ELEVATOR units replaced three bucket elevators. Each can elevate 15 tons of beans per hour. The noise level in the processing room was reduced by 70%.

Bulk Truck Loading – Fast, reliable cleanout of the OLDS ELEVATOR Vertical Conveyor has reduced product changeover from 70 minutes to 10 minutes for a ceramic bead manufacturer who must completely segregate 20 grades of product. An 8-inch diameter, 25-foot tall OLDS ELEVATOR unit handles 33 tons per hour, a significant improvement over 25 tons per hour for the system it replaced.

Biomass Pellet Feeding – Reliable flow rate control and 20-foot elevation are the two principle criteria for the feed system for a manufacturer of Biomass-to-Electricity plants. An OLDS ELEVATOR unit delivers pelletized biomass at a rate of 1,500 lb/hr to a fluidized bed reactor. Volumetric flow rate accuracy error of less than 1% ensures a consistent feed rate.

Send us two five-gallon pails of your product.

We'll elevate it in the OLDS ELEVATOR Vertical Conveyor, digitally record the test and send you the results and a DVD. All at no charge. Simply call today to arrange this fast, no-obligation free test!



www.oldsusa.com

**Olds Elevator™**

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imagine...

Elevating bulk material at 90° in under 10 square feet of floor space.

Add simultaneous, precision volumetric flow control.

Drastically reduce maintenance costs and changeover delays.

Feed multiple processes with a single elevator.

Achieve dust-free elevation that virtually eliminates fire and explosion risks.

No need to imagine...
You can do it all.

**Olds Elevator™**
Vertical Bulk Material Conveyors



Join the vertical revolution!



Take advantage of process and economic benefits never before seen for elevating bulk product.

REVOLUTIONARY SPIN-LIFT™ ELEVATION

Completely unlike bucket elevators and conventional screw elevators, the OLDS ELEVATOR design employs a cylindrical casing that rotates around a stationary screw fixed to the frame. Material enters the elevator through intake scoops attached to bottom of the casing. The casing is positioned in a feed hopper, sump or other vessel positioned at any height including floor level or lower.

As it fills the annular space between the rotating casing wall and outer edge of the static screw, material gently slides upward with minimal transport friction.

Seconds later, material reaches the top and flows out of the casing in a 360° pattern into a discharge head with a chute or spout configured to your application.

It's fast, clean, safe and simple to operate and maintain.

90° elevation takes less than 10 square feet of floor space

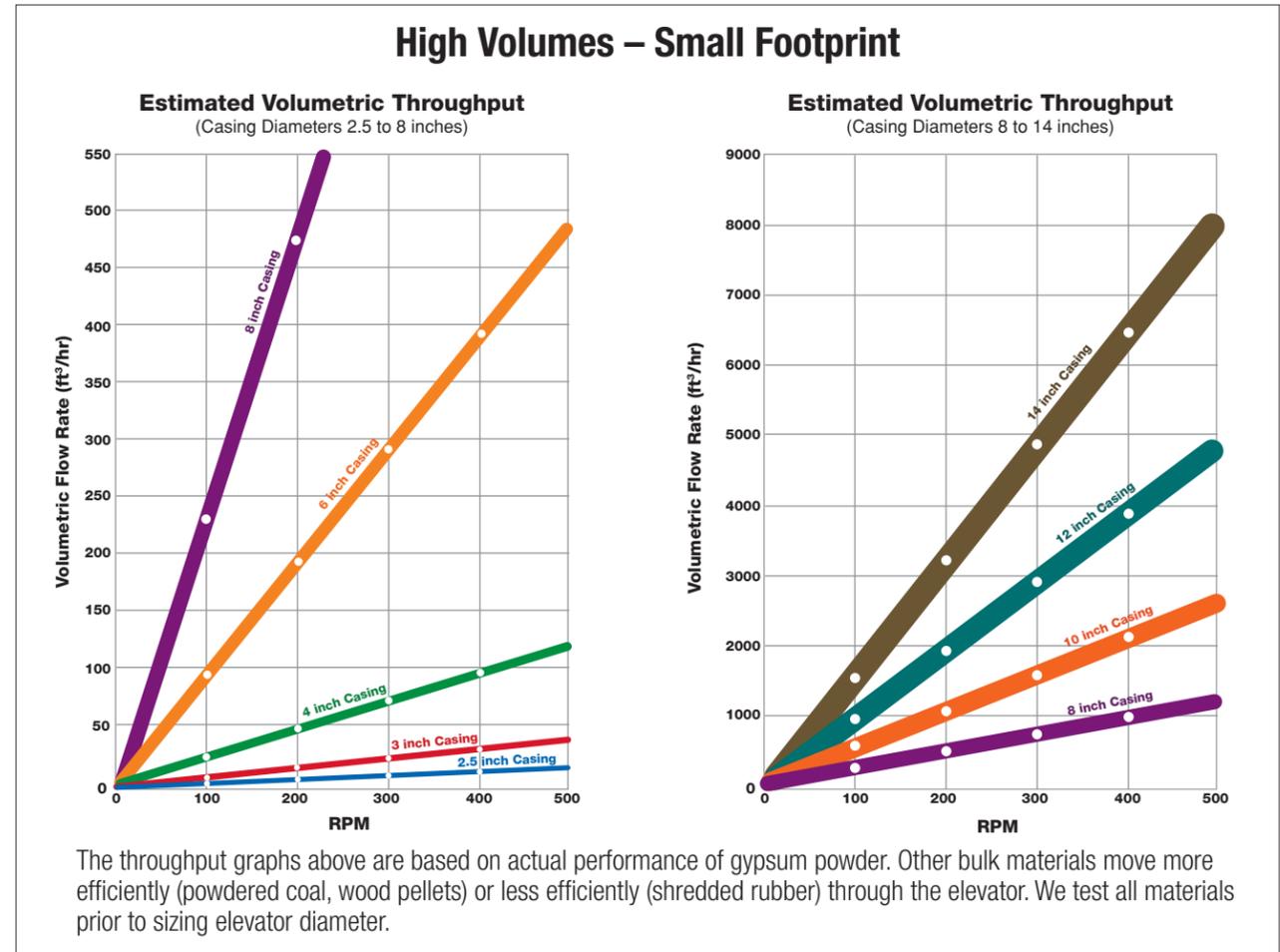
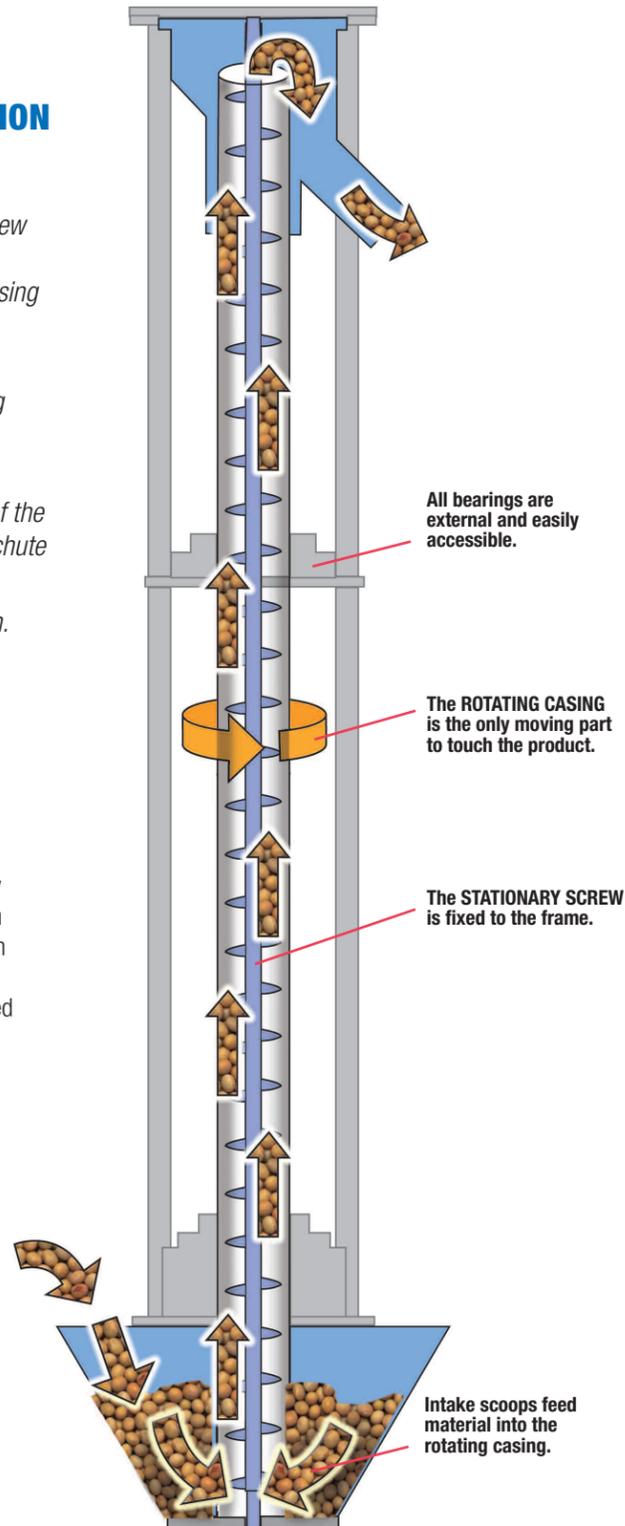
Revolutionize space utilization for your operations, because 90° is the optimum orientation. Angled applications can be accommodated.

Precision flow rate control

Simply adjusting the casing speed with the variable frequency drive enables the operator to control volumetric flow rate with 1-3% accuracy or better. As long as the intake scoops remain covered with product (ensuring a constant supply of material) the system will reliably deliver product at a precisely controlled rate. There is no need for separate metering devices. At any operating speed material discharges in a smooth, steady stream without pulsations.

Fire/explosion risk minimized

Since the entire volume of the elevator casing is occupied by material during elevation, there is insufficient dust and air in the column to support combustion. With no internal metal-to-metal contact, the potential for sparks is greatly minimized. In the case of fire upstream or downstream, the flame front would be snuffed out at the OLDS ELEVATOR Vertical Bulk Material Conveyor.



Low maintenance costs – uncomplicated design

There are no linkages, chains, buckets, sprockets, blowers or compressors to service or replace. Cleaning takes only minutes. Wear is limited to the intake scoops and screw. Intake scoops mount with simple clamps and are replaced in minutes. The highest wear occurs in the first 12 inches of screw, where material flow changes from horizontal to vertical. For this reason the easily removed bottom section of screw can also be replaced in a few minutes. The rotating casing is protected from wear by the product as it fills the annulus. In years of field use, no casings have exhibited detectable wear.

No segregation of particles of different densities

Tests have proven that particles of varying size, texture and density won't be segregated during elevation. Mixtures with particle bulk densities ranging from 10 to 90 lbs/ft³ have been elevated with no measurable segregation. Materials with bulk densities of up to 275 lbs/ft³ have been elevated.

Product shielded from contaminants

There's no exposure to machine oil or airborne particulates. No filters. As all bearings are external, product only contacts the intake scoops, casing and screw.

Rapid cleanout for product changeovers

Simply reversing rotation of the casing empties the column completely in seconds. A feed hopper drain allows easy removal of residual material.

Energy and Resource Conservation

- Bulk materials move directly from floor level to feed processes – no intermediate screw feeders or storage hoppers needed
- Loss-in-weight feeders often eliminated
- Outperforms pneumatic systems without costly compressors, blowers, vacuum or dust control equipment
- Since only interstitial air is transported during elevation, dust control needs are greatly reduced
- Reduced manpower requirements – simple operation
- Silent operation obviates noise reduction measures
- Wear components are inexpensive, easily accessed and simple to replace
- Operates with low amp draw
- Space savings calculated in 100s of cubic feet compared with conventional conveyors

Make the Vertical Adjustment Now!

*Manufactured under U.S. Patent No. 7,314,131