



Triple/S Dynamics, Inc.

Slipstick Tube Conveyor



The Slipstick Tube Conveyor, engineered and manufactured by Triple/S Dynamics, is fundamentally different from other types of conveyors commonly used to transport dry bulk materials. The greatest benefits of the Tube Conveyor derive not from what it does, but from *what it doesn't do.*

The Slipstick Tube Conveyor will not:

Damage fragile materials
Compact compressible materials
Aerate finely divided materials
Segregate material mixtures
by size or density

A Better Way to Convey

The Tube Conveyor is a horizontal motion oscillating conveyor which is quite different in design and operation from a traditional vibrating conveyor.

The Tube Conveyor uses the inertia of conveyed materials to move the material. A completely horizontal, slow-advance/quick-return motion allows materials to ride the tube on the forward stroke, but slip on the tube through the faster return stroke. The result is a gentle gliding action of the material in the tube at maximum travel rates of 35 to 40 feet per minute.

Moving Materials Without Moving Parts

Triple/S Dynamics has shipped thousands of Slipstick conveyors to processing industries world-wide. The Tube Conveyor uses the same reliable drive mechanism, coupled with an economic, seal-tight tubular transport section.

The result is a sealed conveyor that *moves materials without moving parts*. Without moving parts in contact with the conveyed material, the Tube Conveyor is found to be:

- Substantially self-cleaning
- Dust-tight
- Lower maintenance
- Wear resistant



The Slipstick Differential Drive is "bullet-proof"

The Slipstick Tube Conveyor has an excellent service history in harsh operating environments in continuous duty. The Slipstick minimizes expensive downtime required for maintenance.

Triple/S Dynamics offers a three-year, continuous duty Limited Warranty on the unique Differential Drive unit that powers the Slipstick Tube Conveyor. Backed by twenty-five years of service history, and assembled with the highest quality components, the Slipstick Differential Drive is "bullet-proof".

Four 4140, heat-treated shafts carry eccentrically mounted weights and are rotated in special double-row spherical roller bearings. The shafts are timed together with a rugged helical gearset of a proprietary design. In operation, the single electric motor maintains the low-speed rotation of the shafts which inertially generate the differential motion.



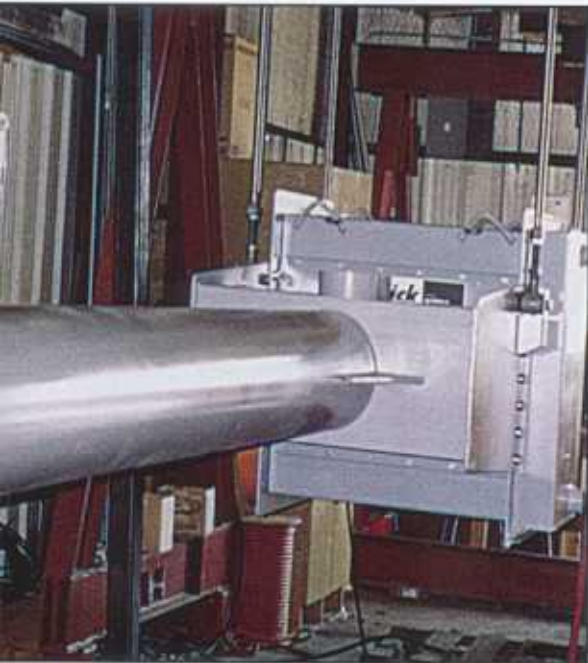
Versatility by Design, and in Operation

Today, Slipsticks can be found in applications from the gentle feeding of snack foods into one ounce bag packaging machines in the Midwestern United States, to the continuous charging of 200 metric tons per hour of scrap steel in a mill in Thailand.

Triple/S Dynamics' engineers have designed a wide variety of arrangements and options for the transport section of the conveyor. Originally configured as an open trough, or as a trough with integral clamped covers, the economy of the Slipstick Tube Conveyor for seal-tight applications was an obvious development.

The Slipstick Tube Conveyor may be equipped with discharge gates, inlet and outlet seals, access ports, and is available in lengths of up to 200 feet and capacities of over 200 tons per hour.

The Differential Drive provides conveyance either toward, or away from the drive location, and the conveying direction is reversible under load. With motor speed control, the conveying rate is adjustable for applications calling for controlled rate discharge, or for in-line accumulation.



Triple/S Dynamics has maintained its commitment to superior design and manufacture in vibrating conveying and processing machinery since 1888. This commitment is evidenced by the company's continued investment in the tools and equipment necessary to maintain a leadership position in the field of custom machinery design and manufacturing.



A Customer-driven approach to sales, project management, and service has earned Triple/S Dynamics the honor of being selected to provide conveyor systems to many of the most respected companies in the food, chemical, recycling and bulk material manufacturing and packaging industries.



Contact one of our Sales Engineers to learn how the Slipstick Tube Conveyor can offer your next project a better way to convey.

Triple/S Dynamics, Inc.

Engineers and Manufacturers since 1888

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