

schenckprocess



Loading/ Unloading Systems

- Material Distribution Bridge
- Mobile Hopper System
- Railcar Unloading Systems
- Circular Bin Discharger



MATERIAL DISTRIBUTION BRIDGE

This product brings together several Schenck Process machines and allows the efficient filling of storage buildings.

Material is fed to the system by means of a normal conveyor, typically a belt. Positioned along each side of the entire building length are shuttle belts. These allow the bridge to traverse on rails throughout the entire building. Material can be discharged into one of two chain conveyors. Material is transferred into the roof apex via the 2 x chain conveyors mounted on the bridge itself.

Material is discharged via a series of slide gates located along the conveyor length and will fill the storage area from floor to roof. This system maximizes space and allows for efficient filling, reducing building size and cost.

Current system users include ports, producers of animal feeds, and food processors.



MOBILE HOPPER SYSTEM

The Schenck Process Mobile Hopper is a device commonly used at port and dockside locations for receiving material from grab cranes.

The units are normally stand-alone with installed dust suppression, cable reeling, and discharge conveyors all built into the structure. The hopper itself has a standard capacity of 1,800 cubic feet.

The whole structure is mounted on rails and can be relocated by towing into position or via a self propulsion system.

The unit discharges onto an enclosed belt conveyor and can allow feed rates in excess of 700 tons per hour without creating spillage or dust.

Only a handful of suppliers for such equipment exist worldwide and Schenck Process is an excellent reference point for systems currently handling animal feeds, Soya, and derivatives.

**For more information, please contact us at 262-473-2441 or Fax: 262-473-6884
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RAILCAR UNLOADING SYSTEMS

Few can rival the depth of experience and practical knowledge Schenck Process has concerning the design and construction of Railcar Unloading Systems.

Our systems are typically designed for standard bottom discharge cars, and feature a collection hopper with screen and conveyor system beneath.

The conveyor selection depends largely on the character of the material to be conveyed and the physical route the conveyor must take.

In the past, our systems have been installed using belt feeders, chain conveyors, bucket elevators, and belt conveyors. We have used both chain conveyors, shuttle belts, and traveling trippers to discharge into storage bunkers or silos.

Systems can include screens, magnetic separators, crushers, and complete integrated control systems.

Materials Handled Include:

- Grain
- Urea
- Coal
- Limestone
- Chemical Products
- Fertilizer
- Animal Feed
- Food Stuffs
- Minerals
- Biomass

Schenck Process

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CIRCULAR BIN DISCHARGER

The Schenck Process Circular Bin Discharger is a well proven and established positive discharge aid for hoppers and silos where the material to be handled has characteristics that make it difficult to discharge or control. A rotating arch breaker arm travels around the hopper bottom section of the silo breaking any bridge of material which may form. This ensures a flow of material to the discharger, which can be supplied as a single, two or three stage unit to suit the characteristics of the material to be handled and the throughputs required. The standard range includes two sizes: 32 and 40 inches in diameter.

Besides functioning as a bin discharger, the Circular Bin Discharger can be used to maintain a head of normalized material in the outlet chute, thus assisting the accuracy of subsequent metering or weighing equipment. Material in excess of the take away rate is recycled.

The Circular Bin Discharger is driven by a single drive controlling the rotation of both the discharger and arch breaker arm. Actual drive arrangements vary according to the application or customer requirements.

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we make processes work