

# BULK MATERIAL HANDLING PRODUCTS



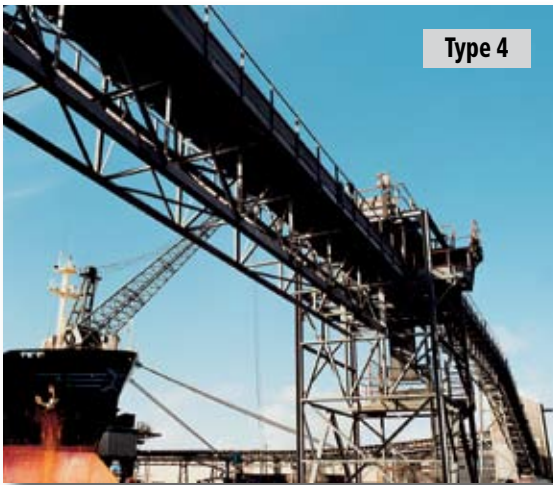


## MOVEMASTER BELT CONVEYORS

Schenck Process MoveMaster Belt Conveyors are used throughout the world for various industries to convey bulk materials. They are capable of carrying a variety of products in large and small capacities at required speeds for the application. Commonly handled materials include, coal, stone, chemicals, and grain.

### FIVE DIFFERENT MOVEMASTER BELT CONVEYOR MODELS ARE AVAILABLE:

- **Type 1** – A simple frame that consists of channels securely tied and braced while including a steel deck plate between the top and bottom of the belt.
- **Type 2** – The frame is a well braced steel truss of various depths and weights according to the maximum spans required. A removable curved cover may be provided for the protection of the belt and to help keep wind from blowing material off the belt. A walkway and handrail are furnished on one side only.
- **Type 3** – A totally enclosed frame built of solid steel plates properly reinforced and tied together. Lubrication fittings are extended to one side through the casing. A walkway and handrail are furnished on one side only.
- **Type 4** – This model includes a single walkway gallery frame. The sides of the gallery form a well braced steel truss for long spans and provide complete enclosure for the conveyor and walkway. The floor may be plank, steel grating, steel checkered plate, or concrete slab. (See photo.)
- **Type 5** – A double walkway gallery type frame provides maximum accessibility to the conveyor. The frame and enclosure are similar to Type 4, except the walkway is provided on both sides of the conveyor.



Type 4



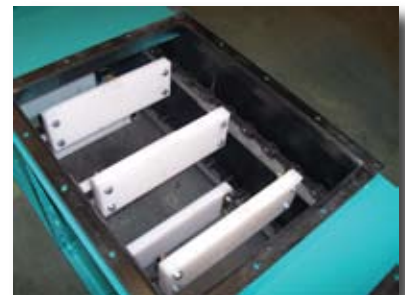
## MOVEMASTER CHAIN CONVEYORS

In virtually every industry, Schenck Process MoveMaster Chain Conveyors are delivering robust, reliable performance over generations of use. They are used for conveying bulk materials, including coal, grain, gravel, ore, cement, clinker, ash, and others. Capacities range from 10 tons to a formidable 2,000 tons per hour.

Schenck Process offers both conventional drag chain and en-masse chain conveyors. The en-masse chains are made from high tensile alloy steel forgings. For maximum strength and service life, the links are heat treated and the flights are precision welded to them.

### OTHER FEATURES OF THE MOVEMASTER CHAIN CONVEYORS:

- Chain carried on wear-resistant and easily replaced manganese steel strip runners.
- Inspection doors ease access and improve installation speed.
- Quick and easy tail access for timesaving maintenance.



## MOVEMASTER BUCKET ELEVATORS

Schenck Process offers both belt & chain bucket elevators for light and heavy duty industry applications. Typical materials handled in the belt & bucket elevator include wheat, rice, malt, or pellets with the chain & bucket elevator suited to hot or abrasive materials such as limestone, cement, and coal.

### MoveMaster Belt & Bucket Elevator features:

- Designed to handle up to a 400 ton per hour throughput capacity of wheat.
- Steel buckets designed to give maximum throughput, but still maintaining the perfect fill and discharge characteristics.
- Elevator manufactured with heavy duty steel to withstand harsh environments.



### MoveMaster Chain & Bucket Elevator features:

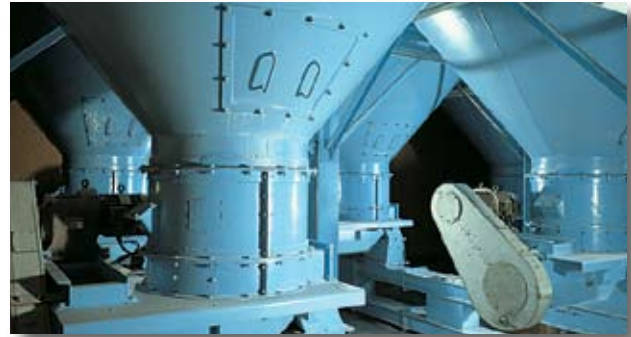
- Chain is heat treated and hardened to resist wear when used with abrasive products.
- Buckets are designed to suit the particular material to be handled while providing good pick up and discharge features.
- Product fabrication can be done using mild steel, stainless steel, or special materials to suit the product being elevated.



## MAXISTORE MATERIAL DISTRIBUTION BRIDGE

This system combines Schenck Process belt and chain conveyors, shuttle belts, and the MaxiStore Material Distribution Bridge for the efficient filling of storage buildings.

Operation begins when material is fed to the system typically by a belt conveyor. 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 two chain conveyors mounted on the bridge itself. Discharging of the material is done via a series of slide gates located along the conveyor length, which fills the storage area from floor to roof.



## FLOMASTER CIRCULAR BIN DISCHARGER

The unit is designed as a flow 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 that may form.

- Standard discharge sizes are 32 and 40 inches (813 and 1,016 mm) in diameter.
- Can be used to maintain a head of normalized material in the outlet chute, thus assisting the accuracy of subsequent metering or weighing equipment.
- Handles difficult materials that are prone to bridging.



## INTRABULK RECEPTION UNIT

The capability to receive materials from trucks or end loaders and feeding process systems at rates up to 500 tons per hour, make the IntraBulk a world-leading mechanical conveying solution.

As an intake device the IntraBulk operates by receiving material from road tipping vehicles or front end loaders and then conveying and elevating the materials for delivery into the process.

- Accepts most products delivered by truck or front loader shovel.
- Above ground installation means no expensive civil work.
- Discharge capacity up to 500 tons per hour.



## RAILCAR UNLOADING SYSTEMS

Years of experience in the design of railcar unloading systems have given us the ability to supply a system built for your specific application. Whether it's installing belt feeders, chain conveyors, bucket elevators, or belt conveyors, Schenck Process has the equipment to meet your railcar unloading needs. Systems can also include screens, magnetic separators, crushers, and complete integrated control systems.



## PORTBULK MOBILE HOPPER SYSTEM

This device is 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.

- System is mounted on rails and can be relocated by towing into position.
- Unit discharges on to an enclosed belt conveyor at feed rates in excess of 700 tons per hour without creating spillage or dust.
- The hopper has a standard capacity of 1,800 cubic feet (51 cubic meters).



## FULFILLER CONTAINER LOADING SYSTEMS

The FulFiller Container Loading System is used to load bulk granular products into standard ISO containers. Three different model designs are available to meet your specific application needs.

- Load rates up to 8,475 cubic feet (240 cubic meters) per hour are possible.
- Excellent for loading plastic pellets, refined sugar, grains, soybeans, rice, and wood chips/pellets.
- System design allows material to fall on to the belt and be thrown into a container without causing any damage to the material.

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