

MoveMaster® En-Masse Conveying & Elevating



Gentle Handling of Bulk Materials

Introduction

Schenck Process Group, are leading providers of feeding, automation and bulk solids handling solutions.

With a global network of sites and competent partners, the name Schenck Process is synonymous throughout the world with process expertise and well-engineered measuring technology for industrial weighing, feeding, conveying, screening, automation and air filtration technology.



Our philosophy is based on...

- ◆ Continuous product development
- ◆ Best practice approach to applications
- ◆ Raising industry standards



Capabilities

- ◆ Single machine
- ◆ Multiple machines
- ◆ System solutions
- ◆ Installation & commissioning
- ◆ Plant layout & integration
- ◆ Engineering & contract management
- ◆ Professional customer service approach

Industries

- ◆ Power, Coal, Steel, Cement, Mineral, Chemical, Grain Processing, Brewing/Malting, Flour/Feed, Food, Particle Board, Recycling, Waste Water Treatment

The Schenck Process Group develops, manufactures and markets a full range of solutions, products and turnkey systems on the basis of combining process engineering expertise, reliable components and field-proven technology.

Members of the Schenck Process Group are:

clydeprocess
schcnkprocess group



schcnkprocess



redler
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macprocess
schcnkprocess group



schcnkAccuRate



stock
schcnkprocess group



pentec
schcnkprocess group



screenex
schcnkprocess group



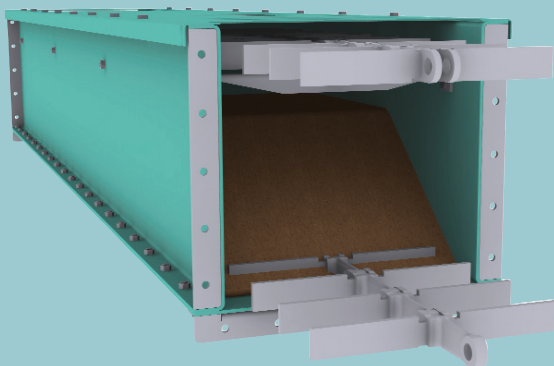
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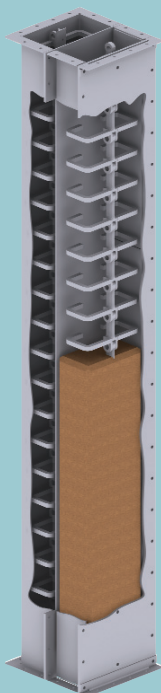
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MoveMaster® - The Mechanics of En-Masse Conveying and Elevating

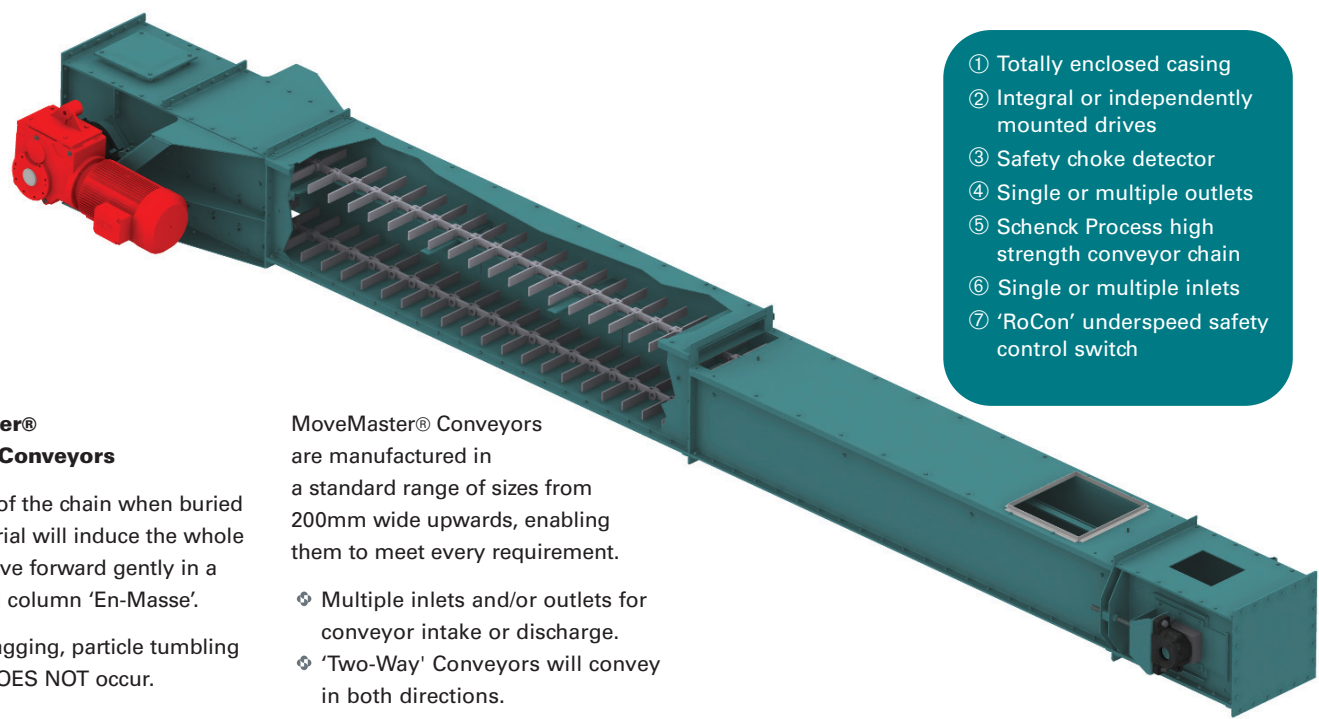


- ❖ En-Masse movement is the term used to describe the unique method of conveying bulk materials smoothly, gently and economically.
- ❖ Material is induced to move like a liquid through a slender dust tight steel casing, horizontally, on an inclined plane, vertically and around bends.
- ❖ The conveyor feeds itself at any point with a uniform load. The skeletal flight configuration induces the material to flow in a solid, placid column.
- ❖ There is no internal disturbance or pressure on the material and the load can be discharged at any opening, where it is permitted to fall away from the flights.
- ❖ The conveyor is not a scraper conveyor. There is no dragging or scraping action, material simply moves forward in a solid placid column, 'En-Masse'.





MoveMaster® Conveying & Elevating with Proven Technology



- ① Totally enclosed casing
- ② Integral or independently mounted drives
- ③ Safety choke detector
- ④ Single or multiple outlets
- ⑤ Schenck Process high strength conveyor chain
- ⑥ Single or multiple inlets
- ⑦ 'RoCon' underspeed safety control switch

MoveMaster® En-Masse Conveyors

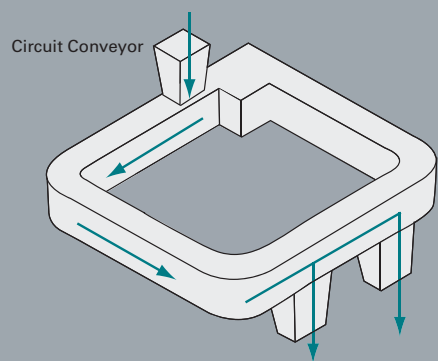
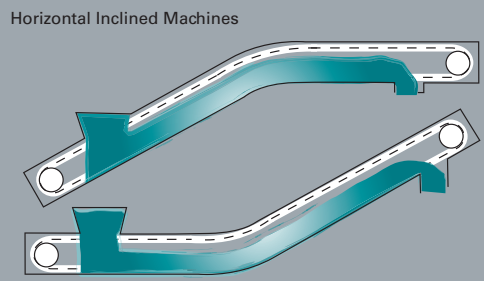
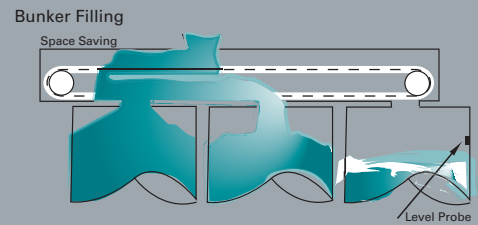
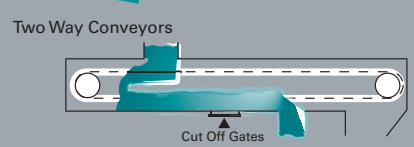
Movement of the chain when buried in the material will induce the whole mass to move forward gently in a solid, placid column 'En-Masse'.

Material dragging, particle tumbling or rolling DOES NOT occur.

MoveMaster® Conveyors are manufactured in a standard range of sizes from 200mm wide upwards, enabling them to meet every requirement.

- ❖ Multiple inlets and/or outlets for conveyor intake or discharge.
- ❖ 'Two-Way' Conveyors will convey in both directions.

Popular Conveying Arrangements



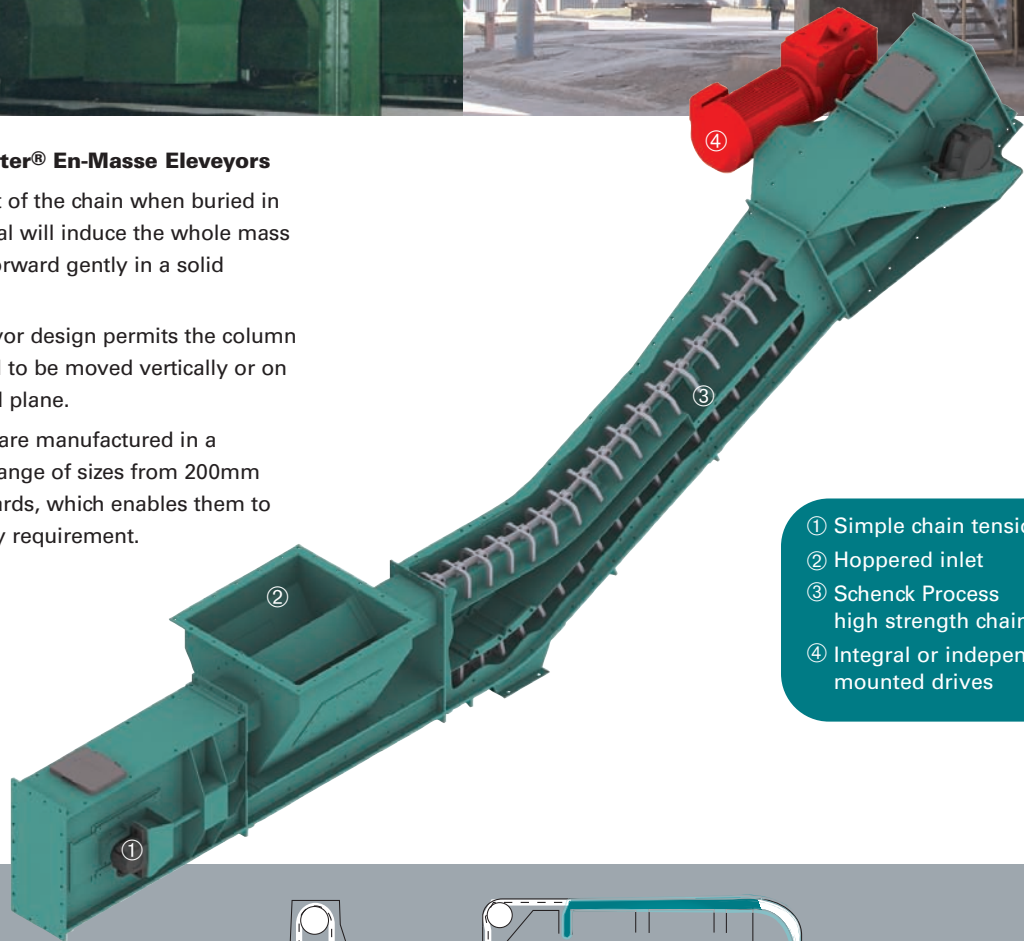


MoveMaster® En-Masse Elevators

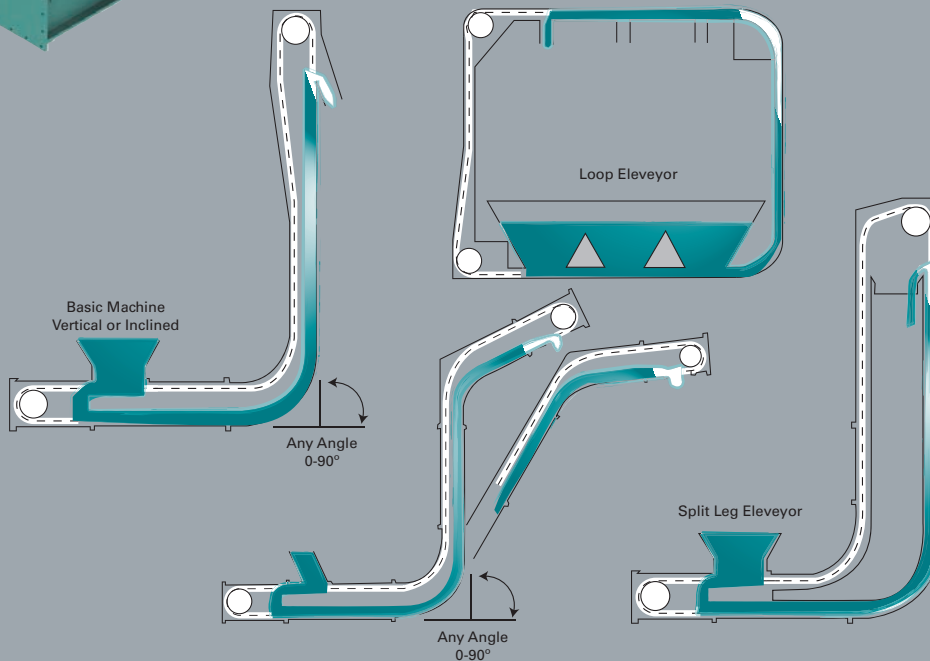
Movement of the chain when buried in the material will induce the whole mass to move forward gently in a solid column.

The Elevator design permits the column of material to be moved vertically or on an inclined plane.

Elevators are manufactured in a standard range of sizes from 200mm wide upwards, which enables them to meet every requirement.



- ① Simple chain tensioning
- ② Hoppered inlet
- ③ Schenck Process high strength chain
- ④ Integral or independently mounted drives





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The Benefits of MoveMaster® En-Masse Handling

Cost Effective

- ❖ Capital costs prove very competitive with other forms of handling equipment, thus giving quicker 'payback period'.
- ❖ Power Running Costs significantly lower than most other forms of equipment, i.e they can be as low as 1/10 of dense phase conveying.
- ❖ Low Cost Maintenance.
Heavy duty rigid construction in simple modules, high strength chain, choke detectors, overload and underspeed switches all ensure easy maintenance at infrequent intervals.

Pneumatic
Conveyor



Redler
Machine

Labour Saving

- ❖ Manual to fully automatic control of single or multiple machine systems provided by proven basic control systems.
- ❖ No specialised maintenance staff required.

Screw Conveyor

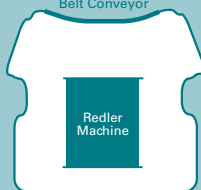


Redler
Machine

Environmentally Acceptable

- ❖ Totally enclosed machines and transfer points of dust-tight and weatherproof construction.
- ❖ Safe as all moving parts are totally enclosed.

Belt Conveyor



Redler
Machine

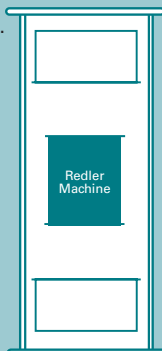
Versatile

- ❖ Specialised features of 'En-Masse' equipment offer versatility to plant layout.
- ❖ Handles virtually all types of dry bulk products.

Size

- ❖ Size and duty comparison with alternative forms of handling equipment.

Bucket Elevator



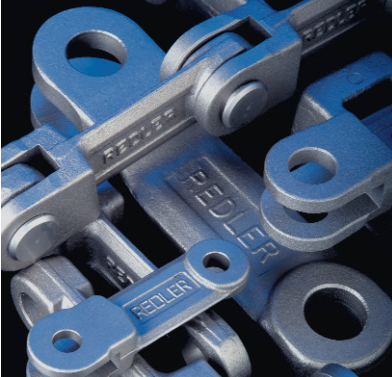
Redler
Machine

Gentle Handling

- ❖ Materials moves 'En-Masse' slowly in a solid placid column with the conveying elements; thus degradation is virtually eliminated.
- ❖ Chain design permits material column to change direction through bends, without degradation.

Proven

- ❖ Over 90 years experience of handling hundreds of bulk materials worldwide within a wide range of industries



FloMaster®

Circular Bin Discharger

- ❖ Fitted beneath circular silos or bins
- ❖ Positive discharge of difficult materials
- ❖ No bridging or blockage at the silo outlet
- ❖ Compact construction
- ❖ Versatile in material control
- ❖ Single, Two or Three Stage units
- ❖ Totally enclosed
- ❖ Safe/good access for maintenance

Other Schenck Process Technologies



FulFiller®

Container Loader System

- ❖ Modular portable unit
- ❖ High speed filling of containers
- ❖ Maximises available storage capacity
- ❖ Meets logistics industry criteria
- ❖ Safe/good access for maintenance



IntraBulk®

Bulk Reception Unit

- ❖ Above ground intake
- ❖ Feed from road vehicle or loader
- ❖ Fast vehicle turn around time
- ❖ Can act as a buffer store
- ❖ Controlled discharge into process
- ❖ Modular heavy duty construction
- ❖ Quick installation & commissioning



MaxiStore®

Bridge Distribution System

- ❖ Portside or inland applications
- ❖ Used within new or existing storage facility
- ❖ Schenck Process En Masse conveying principle
- ❖ Even distribution throughout the store
- ❖ Maximises storage capacity



PortBulk®

Mobile Reception Hopper

- ❖ Portside applications
- ❖ Grab entry into hopper
- ❖ Integral dust suppression
- ❖ Heavy duty construction
- ❖ Outloading to vehicles
- ❖ Outloading to transfer system

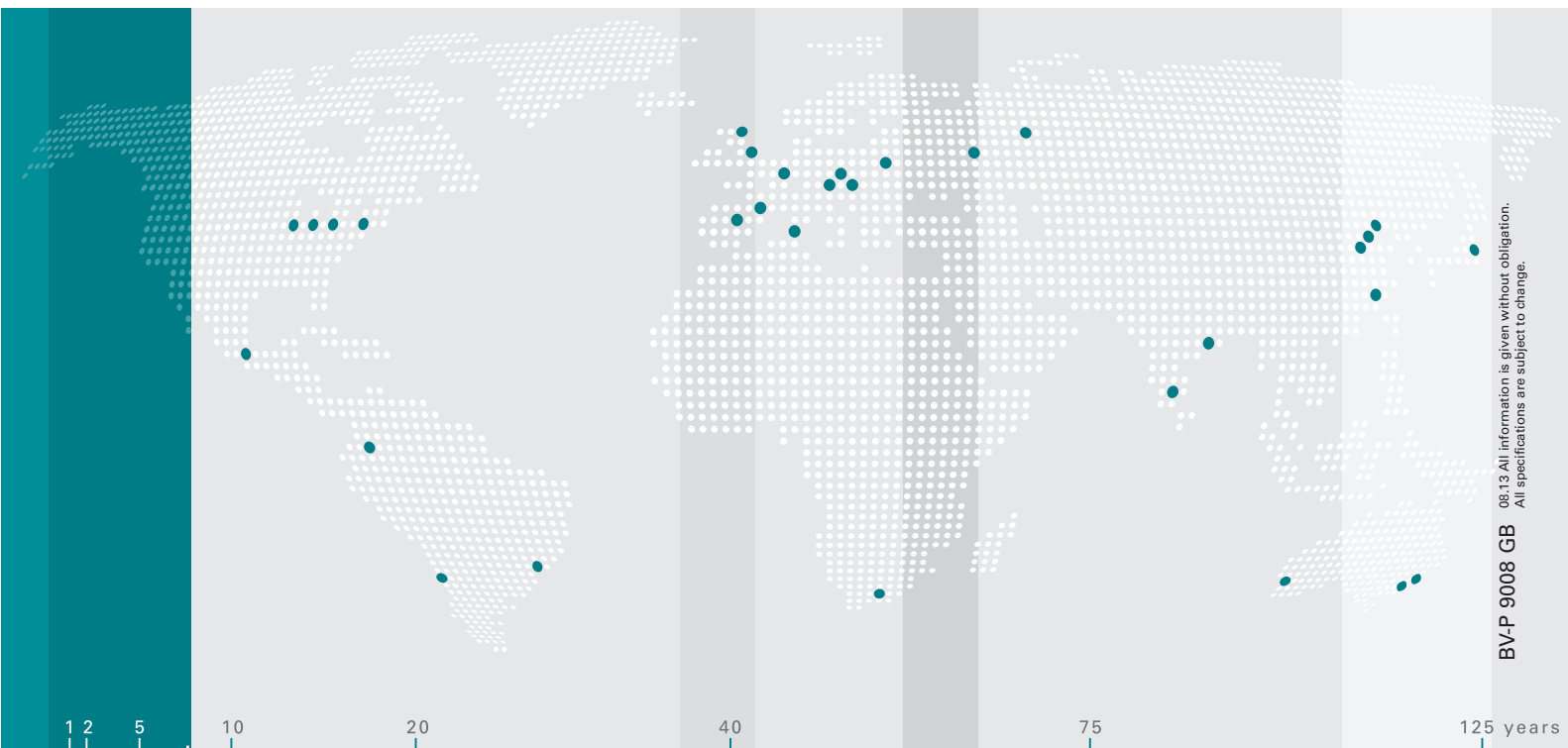
weighing

feeding

conveying

filtration

automation



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