

Power Capabilities



Handling, Feeding, Weighing & Process Enhancement Technologies

Introduction

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

The Schenck Process Group are global market leaders of solutions in measuring and process technologies in industrial weighing, feeding, screening and automation. Close to the customer, with an unrivalled global network of operating companies we are your competent global partner for weighing, feeding, screening and automation solutions throughout the process 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/enclosed construction
- ◆ Single, Two or Three Stage units
- ◆ Safe/good access for maintenance



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, Waste Water Treatment, Biofuels



Other Redler Technologies



FulFiller Container Loading System

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



MoveMaster Conveyors & Elevators

Where industrial processes require materials to be transported horizontally, vertically or up inclines, Stock Redler Ltd select the appropriate equipment based on a careful analysis of each specific set of conditions within the process.

- ◆ Capacities 1-2000 tonnes per hr
- ◆ Worldwide references



MaxiStore Bridge Distribution System

- ◆ Portside or inland applications
- ◆ Used within new or existing storage facility
- ◆ Redler® En-Masse conveying principle
- ◆ Even distribution throughout the store
- ◆ Maximises storage capacity

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:



PortBulk Mobile Reception Hopper

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



General Handling & Weighing

- ❖ All Power Station bulk materials
- ❖ Extensive range of mechanical handling & weighing technologies
- ❖ Mild steel & stainless steel construction
- ❖ Dust tight & weatherproof
- ❖ Wear & corrosion resistant designs
- ❖ High temperature/pressure tight construction available



Road Intake

- ❖ IntraBulk above ground system
- ❖ Feed from road vehicle or front end loader
- ❖ Fast vehicle turn around time
- ❖ Can act as buffer store.
- ❖ Controlled discharge into process.



Screens

- ❖ Suitable for coal, lime & ash
- ❖ Wide range of screen decks
- ❖ RotaClass screens for circular motion
- ❖ LinaClass screens for linear motion
- ❖ Screening rates up to 2,500 tonnes/hr



Container & Trailer Intake

- ❖ FuelMaster discharge stations
- ❖ Tilting station for containers
- ❖ Docking stations for trailers with walking floor
- ❖ Standard containers 30-40m³
- ❖ Trailers 90m³



Covered Storage

- ❖ MaxiStore bridge distribution system.
- ❖ Used within new or existing facility.
- ❖ Redler en-masse conveying principle
- ❖ Even distribution through the store.
- ❖ Maximises storage capacity.



Biomass Handling/Storage

- ❖ All types of handling systems available
- ❖ Loading & unloading for storage systems
- ❖ Ancillary equipment – screens, weighers, metal separation
- ❖ Accurate feed systems into process.

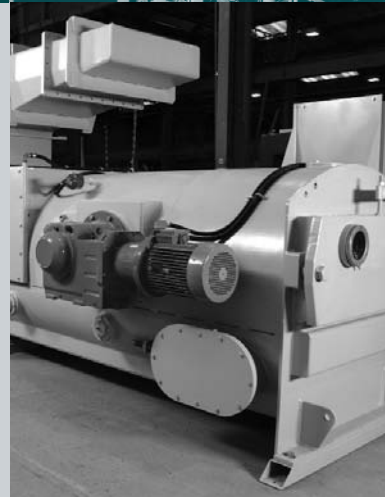
Power Capabilities

- ❖ Bulk Materials Handling
- ❖ Feeding
- ❖ Weighing
- ❖ Process Equipment
- ❖ Valves & Gates
- ❖ Precipitator Control Enhancement



Fly Ash Handling

- ❖ MoveMaster conveying & elevating range
- ❖ Low power consumption
- ❖ Dust-tight construction
- ❖ Located beneath precipitators & dust collectors
- ❖ Large capacity range



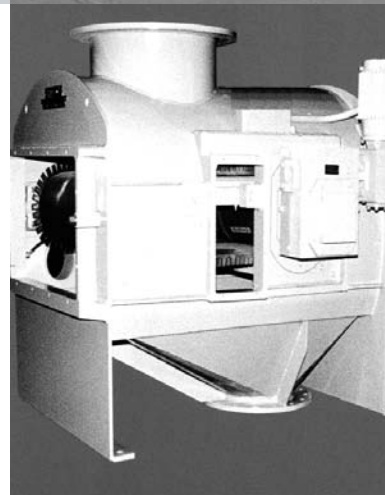
Gravimetric Feeders

- ❖ To pulverising mills or fluid bed combustors
- ❖ Explosion pressure to 3.5 bar g
- ❖ Length & sizes to suit application
- ❖ Capacities up to 150 tonnes/hr
- ❖ Microprocessor control linking to boiler DCS



Bottom Ash Handling

- ❖ MoveMaster conveyors
- ❖ Wet or dry scraper chain principle
- ❖ Serves wide variety of boilers
- ❖ Conveying to storage or outloading
- ❖ Wear and corrosion resistant designs
- ❖ Screening & crushing incorporated



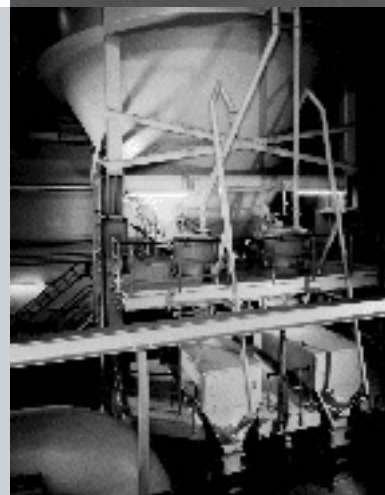
Volumetric Feeders

- ❖ Belt or chain type feeders
- ❖ Explosion pressure containment to 3.5 bar g.
- ❖ Length & sizes to suit application
- ❖ Compact designs for restricted areas.
- ❖ Capacities up to 150 tonnes/hr



Ash Conveying

- ❖ Long distance by pipe conveyor
- ❖ Flexible layout
- ❖ Fly ash & bottom ash
- ❖ Other materials - limestone & biomass
- ❖ Environmentally acceptable



Lime Feeders

- ❖ MULTICOR & MULTIDOS type
- ❖ Compact design, dust tight
- ❖ Feed rates up to 800m³/hr
- ❖ Accuracy + / - 0.5%
- ❖ Easy plant integration
- ❖ Minimal wearing components



schcnck process



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Bunker Gates

- ◆ Sizes to suit all bunker outlet configurations
- ◆ Round, square or rectangular inlets
- ◆ Manual or powered operation.
- ◆ Contact parts in stainless steel
- ◆ Can be capable of withstanding explosion pressures to 3.5 bar g



Train Weighing

- ◆ MULTIRAIL system for dynamic weighing
- ◆ Legal for Trade available
- ◆ Up to $\pm 0.5\%$ accuracy for wagon weight & total train weight
- ◆ All types of goods – solid, bulk & liquid
- ◆ Installation without rail gaps & foundation




Burner Line Valves

- ◆ Isolation of fuel pipework
- ◆ Handles high velocity coal/air mixture
- ◆ Acceptance to industry standards
- ◆ Manual or pneumatic operation
- ◆ Wide range of sizes.



Raw Material Intake

- ◆ Road, rail & ship
- ◆ PortBulk mobile hopper for dockside grab unloading
- ◆ Belt & chain conveyor systems
- ◆ Large capacity range
- ◆ Screens
- ◆ Magnetic separator & ancillary items



Precipitator Enhancement

- ◆ Forry® ESP electrostatic precipitator products
- ◆ Integrated precipitator management solutions
- ◆ Transformer/Rectifier sets
- ◆ AVC voltage control
- ◆ ERC rapper control
- ◆ Windows user interface with DCS communications



Stockyard & Transfer System

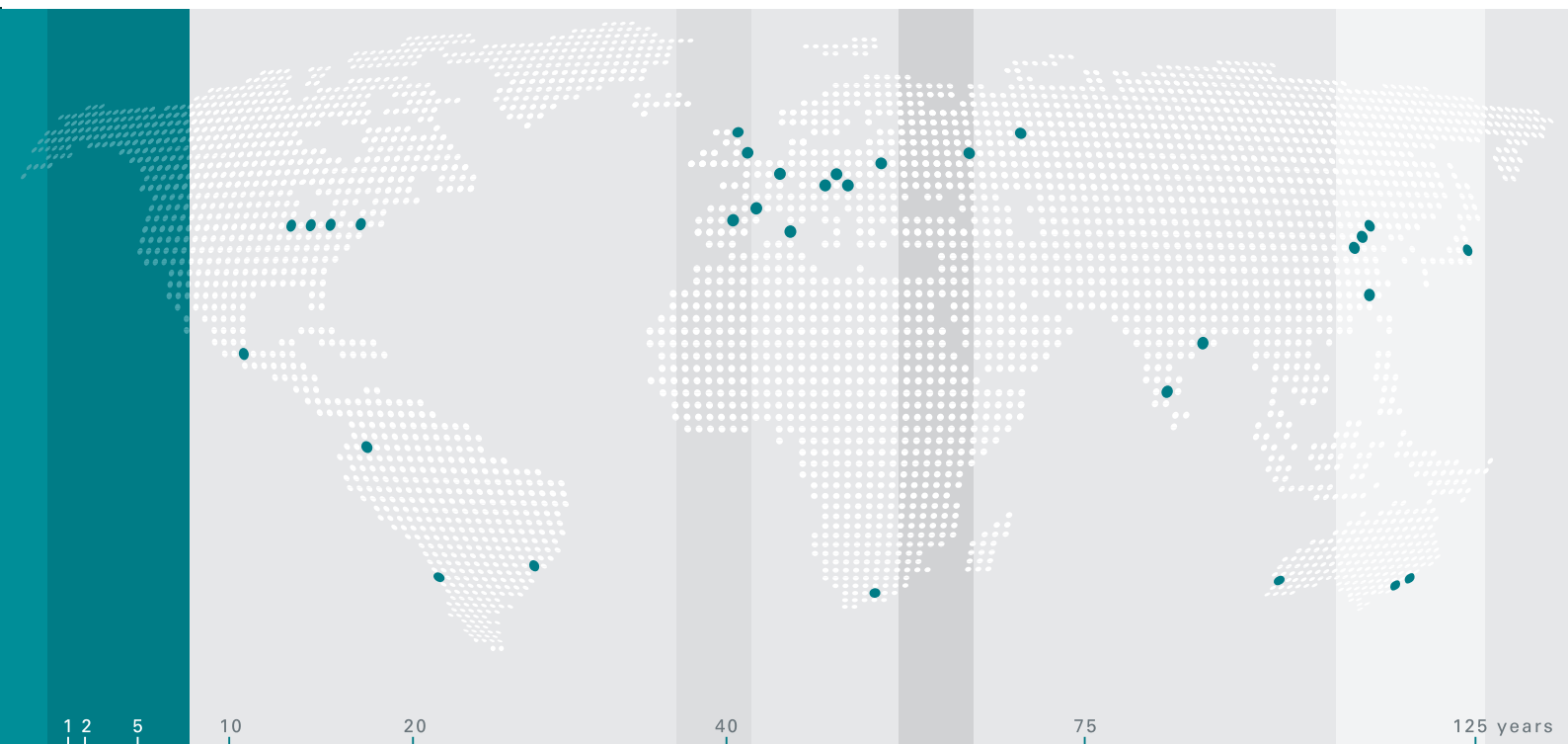
- ◆ MoveMaster belt & chain conveyor systems
- ◆ Radial stacker Units
- ◆ Large capacity range
- ◆ Quality & best practice design
- ◆ Versatile in layouts

weighing

feeding

conveying

automation



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