



## Conveying and Storing in the Mining & Minerals Industry





Products from the AUMUND Group have a long tradition in the field of mining and minerals. For the transport, storage and loading of often abrasive or sticky bulk materials, optimum solutions are available at each process level. AUMUND Foerdertechnik and its sister companies have experience in the handling of various materials, eg:

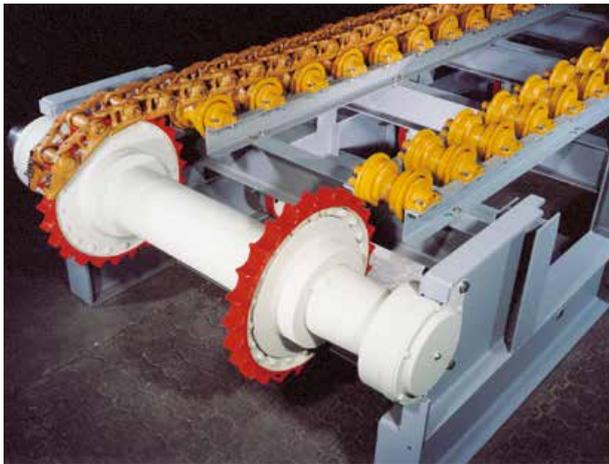
- Basalt
- Bauxit
- Coal
- Dolomite
- Iron Ore
- Fly-ash
- Gold Ore
- Limestone
- Copper Ore
- Nickel Ore
- Olivine
- Petcoke
- Potash
- Phosphate
- Puzzoloan
- Salt
- Sand
- Silver Ore
- Sulphur
- Clay
- Urea
- Zinkoxide

The properties of the materials and the context of the application determine the conveyor. Accurate planning is a most important issue here, because it is basic for the plant's profitability.

This philosophy made AUMUND Foerdertechnik a leading company in bulk materials handling in the mining and minerals, cement, steel, and power industry. Hence AUMUND consequently offers a broad range of machines that were each specifically developed for just their field of application. That starts with heavy duty apron feeders at the crushing plant as shown above and goes up to loading equipment for finished products to truck, wagon or ship.

The variety of available solutions give AUMUND engineers a sound foundation enhancing the customers' application in terms of efficiency, capital expenditure and operational costs.

For hazardous areas, where the risk of dust explosions is possible, AUMUND machines will be delivered with explosion protection measures according to the ATEX regulations. Typical applications are the handling of coal, petcoke or sulphur.



## Heavy-Duty Apron Feeders

The heavy-duty apron feeders are designed to handle rock and rock pieces to feed crushers or to reclaim crushed material.

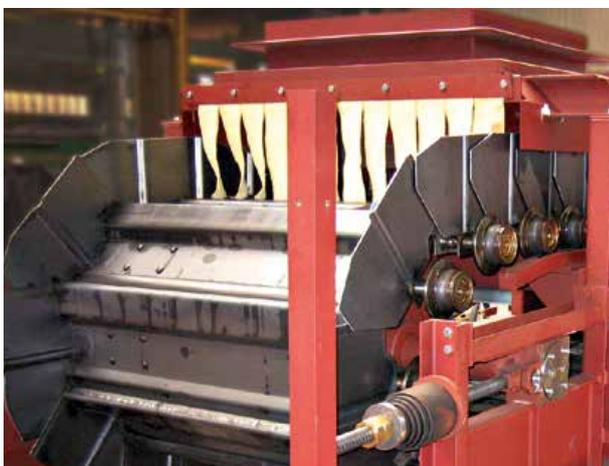
- Extreme heavy-duty / extreme static and impact loads
- Caterpillar-type chains and rollers
- Capacities exceeding 5,000 t/h
- Minimum spillage
- Long operational life



## Apron Feeders with Arched Plates

This version with arched plates is especially suited to empty bunkers with damp and sticky materials.

- High static loads
- Speed-controlled drive (controlled output)
- Easy cleaning option (scraper)
- Optional as weigh feeder with weighing rail, frequency converter and control loop



## Pan and Bucket Conveyors

These pan conveyors are highly reliable and economic systems for conveying hot or abrasive bulk materials horizontal or with inclinations of up to 60°

- Special pan and bucket design
- Allowed for considerable static loads
- AUMUND chain design
- Optional as weight feeder with weighing rail, frequency converter and control loop



## Armoured Chain Conveyors

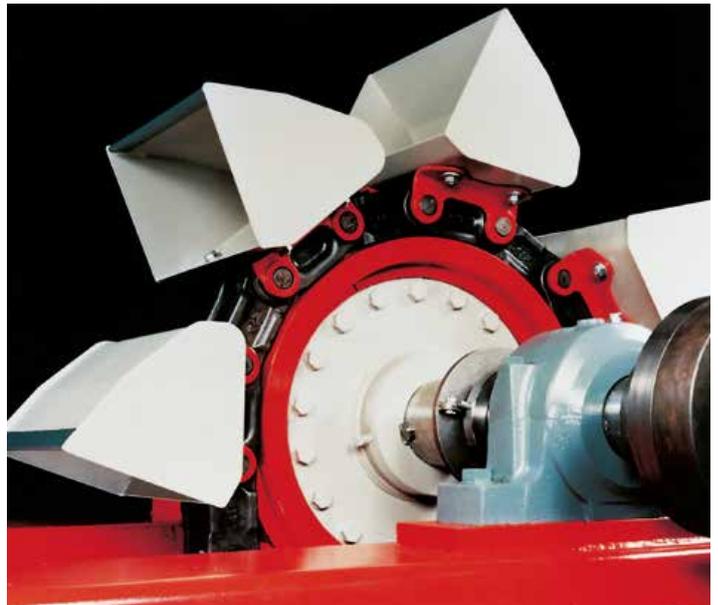
The armoured chain conveyors are used to extract bulk materials from bunkers and hoppers. Armoured chain conveyors are fitted with round link chains and especially formed scrapers to fit into low construction profiles.

- Conveying capacities up to 1,800 m<sup>3</sup>/h
- 2 to 5 strand design
- Spillage-free operation
- Low machine height

## Central Chain Bucket Elevators with centrifugal discharge

The chain bucket elevators with central chain are designed for the transport of all types of bulk materials. Suitable for 24/7- operation at high loads.

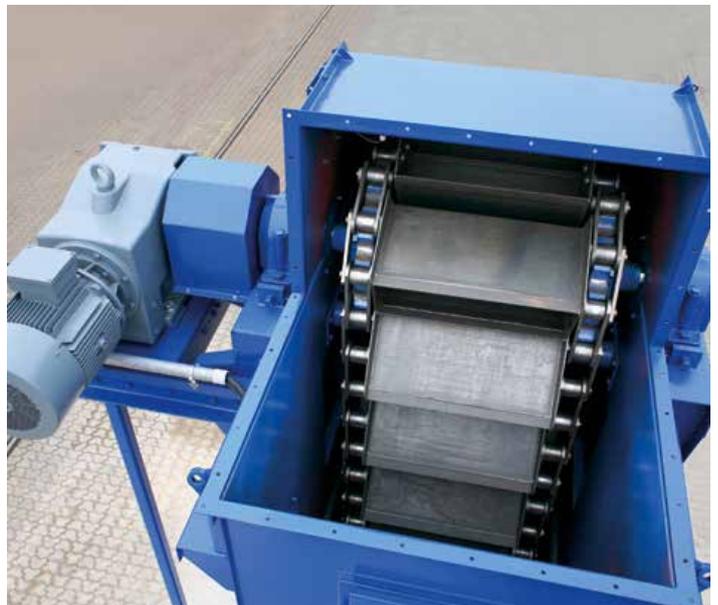
- Lifting heights up to 70 m
- Maximum temperature accepted 450 °C
- Capacity of approx. 1,000 m<sup>3</sup>/h (BW-D for up to 2,000 m<sup>3</sup>/h)
- Grain sizes up to 80 mm
- Long operational life



## Bucket Elevators with Double Chain and gravity discharge

High conveying capacities due to a tight bucket sequence and high capacity buckets up to 2,400 mm width are the characteristic features of the AUMUND Bucket Elevators with double chain.

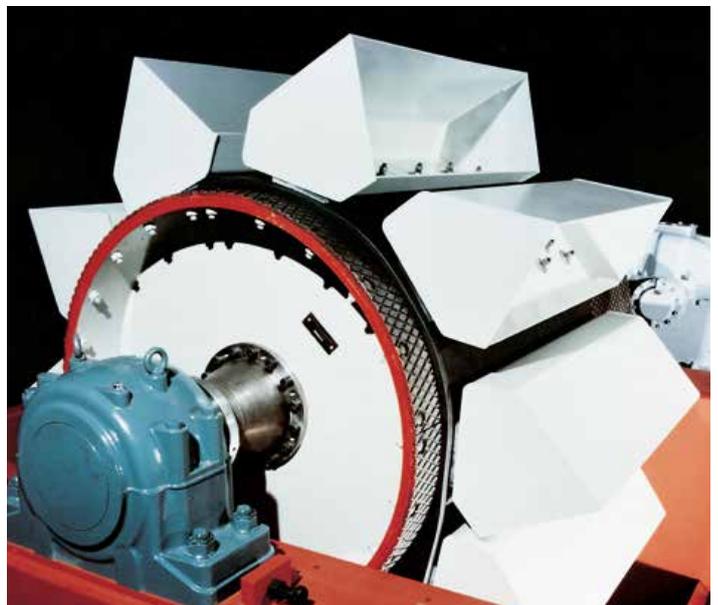
- High conveying capacities about 1,300 m<sup>3</sup>h / 0.7 m/s
- Tight bucket sequence
- Buckets up to 2,400 mm width
- Chains with largely dimensioned joint surfaces reduced surface pressure and wear
- Smooth material handling



## Belt Bucket Elevators

These belt bucket elevators are available for the lifting of fine materials to extreme heights and for a large capacity range. AUMUND steel cable belts with additional cross cables ensure a solid structure.

- Lifting heights up to 175 m
- Capacity up to 1,850 m<sup>3</sup>/h
- Heat resistant up to 130 °C
- Long operational life
- High efficiency
- Low noise emission
- Low maintenance





## Drag Chain Conveyor

With lengths of 50 m and even more, the drag chain conveyor is designed for a wide range of bulk materials. It is supplied with forged and surface-hardened fork-link chains for optimum tensile strength. For each project, the Drag Chain Conveyor is individually adjusted to the bulk materials properties and the geometrical requirements.

- Reduced dedusting capacities required
- Up to 3.5 bar shock proof (optional)
- Available in gas-, pressure- and water-tight versions as well as in single- or double-chain designs
- No spillage
- Long operational lifetime
- Complete enclosed, no pollution of the environment, no contamination of the product from outside



### Functions:

- Material transport
- Material distribution
- Material discharge
- Combined functions



## Samson Materials Feeder

The Samson® Feeder concept satisfies the demands for an easy solution to bridge over bulk materials in a controlled rate to an ongoing conveying system.

- Surface installation
- No underground pits
- Minimum civil works
- Maximum flexibility
- Minimum dust generation
- Fast truck turnaround
- Controlled output rate



## Rotary Discharge Machine

The rotary discharge machine reclaims materials like ores, coal, raw material of fertilizer from large longitudinal stockpiles. For different requirements, various variants are available, e.g. fast travelling and single or double side extraction. With installation of more than one machine in one tunnel, a mixture of different materials at a determined recipe can be extracted.

Rotary discharge machines ensure the reliable discharge of various difficult materials with poor flow properties. Equipped with an electrical control system, the machine travels inside the discharge channel in both directions.

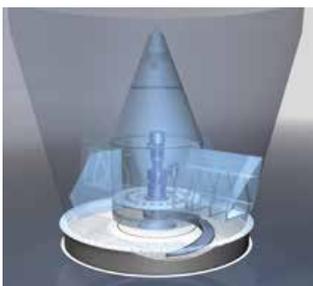
- Even discharge of all types of bulk materials
- Travel distance up to 300 m
- Discharge capacities to 5,000 m<sup>3</sup>/h infinitely adjustable
- Double- / single-side reclaim
- Fast travel option
- Suitable for blending
- First-in-first-out-concept



## Silo Discharge with CENTREX<sup>®</sup> and RRDM

The CENTREX<sup>®</sup> and Rotating Rotary Discharge Machine (RRDM) are especially suitable for the discharge of sticky materials from silos. By means of a logarithmically formed clearing arm, bulk materials are passed from the silo wall radially under the inner cone and onto the centrally located discharge unit. Thanks to the compact, inherently stiff design, the CENTREX<sup>®</sup> is suitable for installation in existing silos and bunkers.

- CENTREX<sup>®</sup> for up to 8 m silo diameter
- RRDM for up to 14 m silo diameter
- First-in first out-concept
- 100% live capacity





## SCHADE Stockyards Technology

SCHADE Lagertechnik GmbH is among the world's leading suppliers of bulk materials stockyards and blending-bed equipment and railcar-unloading systems (Wagon Tipplers) catering for all major industries.

Covered storage systems are available for up to 200,000 t and more. Open-air stockyards widths can reach up to 60 m.

SCHADE offers the largest variety of stackers and scraper reclaimers for a handling rate between 100 t/h and 5,000 t/h.

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## SAMSON Mobile Handling Solutions

With an experience of over 40 years in the bulk materials handling industry, covering a huge variety of materials and industries, SAMSON Materials Handling Ltd. is uniquely positioned to optimum solutions for mobile bulk materials handling. Extensive experience is a guarantee for effective performance and long-term satisfaction with maximum reliability and absolutely minimum overall cost of overheads.

A comprehensive range of equipment for feeding, loading, materials intake and stockpiling is designed for the specific requirements of the bulk shipper or bulk terminal operator.

**SAMSON**  
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