



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:

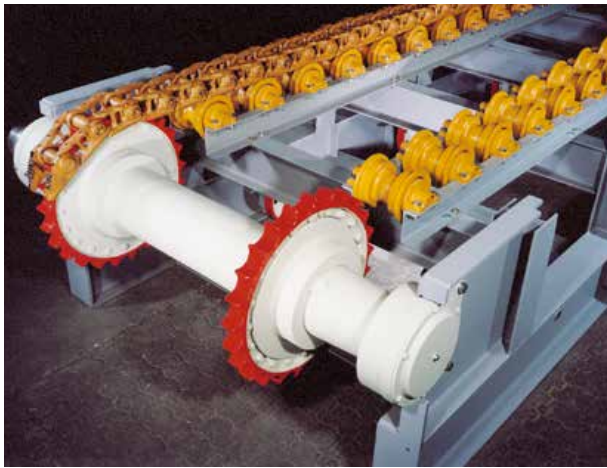
- Basalt
- Bauxit
- Coal
- Dolomite
- Iron Ore
- Fly-ash
- Gold Ore
- Limestone
- Copper Ore
- Nickel Ore
- Olivine
- Petcoke
- Potash
- Phosphate
- Puzzoloan
- Salt
- Sand
- Silver Ore
- Sulphur
- Clay
- Urea
- Zinkoxide

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.

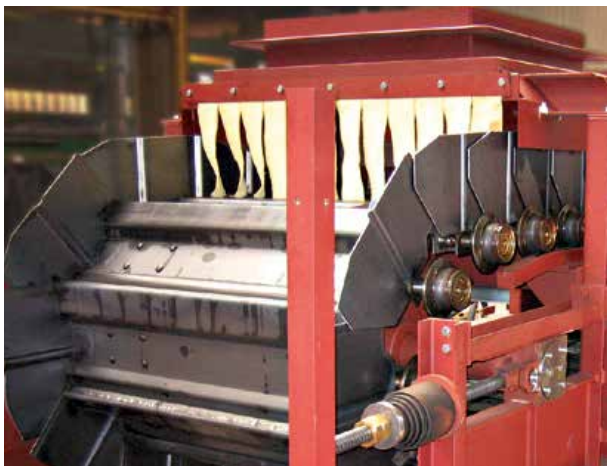
- Extreme heavy-duty / extreme static and impact loads
- Caterpillar-type chains and rollers
- Capacities exceeding 5,000 t/h
- Minimum spillage
- Long operational life



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

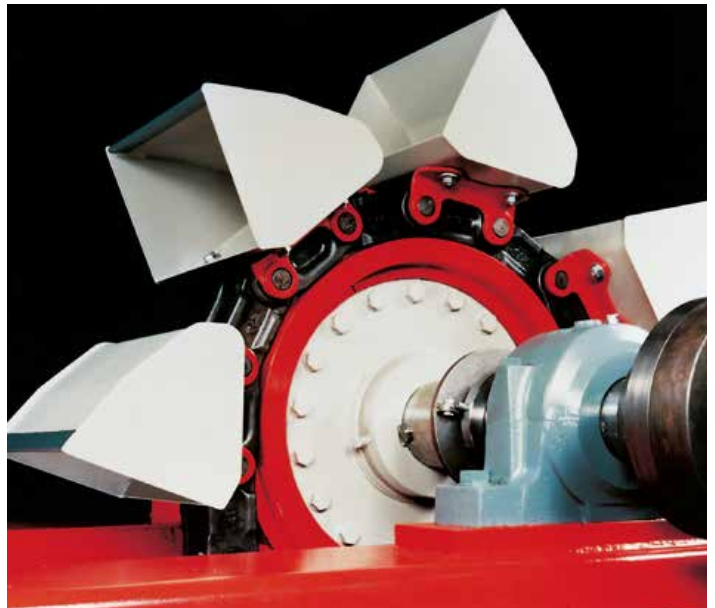
The armoured chain conveyors are used to extract bulk materials from bunkers and hoppers. Armoured chain conveyors are fitted with round link chains and especially formed scrapers to fit into low construction profiles.

- Conveying capacities up to 1,800 m³/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 m³/h (BW-D for up to 2,000 m³/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.

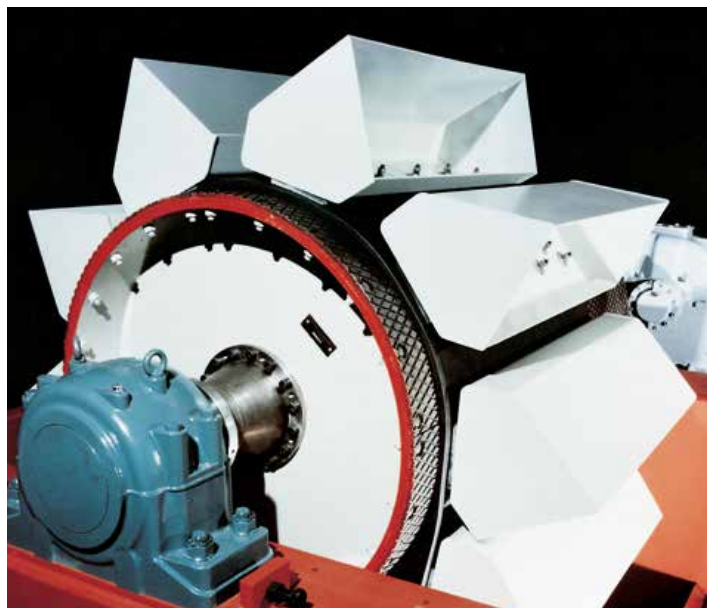
- High conveying capacities about 1,300 m³/h / 0.7 m/s
- Tight bucket sequence
- Buckets up to 2,400 mm width
- Chains with largely dimensioned joint surfaces reduced surface pressure and wear
- Smooth material handling



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 m³/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.

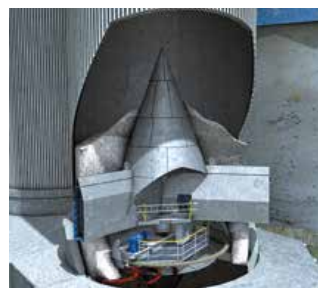
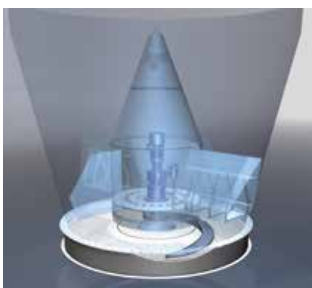
- Even discharge of all types of bulk materials
- Travel distance up to 300 m
- Discharge capacities to 5,000 m³/h infinitely adjustable
- Double- / single-side reclaim
- Fast travel option
- Suitable for blending
- First-in-first-out-concept



Silo Discharge with CENTREX[®] and RRDM

The CENTREX[®] 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[®] is suitable for installation in existing silos and bunkers.

- CENTREX[®] 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.

SCHADE
AUMUNDGROUP



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
AUMUNDGROUP



AUMUND headquarters in Rheinberg, Germany

GERMANY**AUMUND Fördertechnik GmbH**

Saalhoffer Str. 17
47495 Rheinberg
Phone: +49 - 2843 - 72 0
Fax: +49 - 2843 - 6 02 70
info@aumund.de
www.aumund.com

AUMUND Logistic GmbH

Saalhoffer Str. 17
47495 Rheinberg
Phone: +49 - 2843 - 72 0
Fax: +49 - 2843 - 7 24 73
logistic@aumund.de
www.aumund.com

SCHADE Lagertechnik GmbH

Bruchstraße 1
45883 Gelsenkirchen
Phone: +49 - 209 - 50 31 60
Fax: +49 - 209 - 50 31 62 88
sales@schade-lagertechnik.com
www.schade-lagertechnik.com

GREAT BRITAIN**SAMSON Materials Handling Ltd.**

Gemini House Cambridgeshire
Business Park, 1 Bartholomew's Walk
Ely, Cambridgeshire CB7 4EA
Phone: +44 - 1353 - 665 001
Fax: +44 - 1353 - 666 734
sales@samson-mh.com
www.samson-mh.com

INDIA**AUMUND Engineering Private Ltd.**

2nd Floor, Lakshmi Neela Rite Choice
Chambers · 9, Bazulla Road,
T. Nagar Chennai - 600 017
Phone: +91 - 44 - 4393 63 00
Fax: +91 - 44 - 2815 60 46
aumund@vsnl.com

HONG KONG SAR**AUMUND Asia (H.K.) Limited**

Unit 3B & 5, 30/F.
148 Electric Road
North Point
Hong Kong
Phone: +852 - 3695 - 43 33
Fax: +852 - 3695 - 43 11
info@aumund-asia.com

DUBAI U.A.E.**AUMUND Fördertechnik GmbH Representative Office**

P.O. Box 35291
Dubai, UAE
Phone: +971 - 4 - 2823762
catalina@aumund.com

THE NETHERLANDS**AUMUND Holding B.V.**

Wilhelminapark 40
5911 EE Venlo
Phone: +31 - 77 - 320 01 11
Fax: +31 - 77 - 320 07 28
info@aumund-holding.nl

USA**AUMUND Corporation**

1701 Barrett Lakes Blvd
Barrett Lakes Center I
Suite 450
Kennesaw, GA 30144
Phone: +1 - 770 - 590 - 38 01
Fax: +1 - 770 - 953 - 48 44
sales@aumundusa.com

FRANCE**AUMUND France S.A.R.L.**

43, rue de Trévis - F 75009 Paris
Phone: +33 - 1 - 42 46 72 72
Fax: +33 - 1 - 42 46 72 74
aumund@aumund.fr

RUSSIA**AUMUND Representative Office**

German-Russian House, Office 44
ul. Malaja Pirogovskaja 5
119435 Moscow / Russia
Phone: +7 - 495 - 287 90 02
Fax: +7 - 495 - 287 90 06
info@aumund.ru

SCHADE Representative Office

German-Russian House, Office 44
ul. Malaja Pirogovskaja 5
119435 Moscow / Russia
Phone: +7 - 495 - 287 90 03
Fax: +7 - 495 - 287 90 06
info@aumund.ru

BRAZIL**AUMUND Ltda.**

Avenida Eng. Luis Carlos Berrini
716 - 4. andar - conj. 41
04571-000 - São Paulo / SP
Phone: +55 - 11 - 3059 0160
Fax: +55 - 11 - 3059 0161
aumund@aumund.com.br

SWITZERLAND**AUMUND AG**

Arther Str. 3
6301 Zug
Phone: +41 - 41 - 710 10 82
Fax: +41 - 41 - 710 42 02
info@aumund.ch

P.R. CHINA**AUMUND Machinery Trading (Beijing) Co. Ltd.**

Rm. 7-8, 22-F, East Ocean Centre
No. 24 Jianguomenwai Avenue
Chaoyang District
Beijing 100004
Phone: +86 - 10 - 65 15 58 13 / 14
Fax: +86 - 10 - 65 15 58 15
aumund@aumund.cn