

WE CONVEY QUALITY

AUMUND GROUP

PROFILE

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Ever since incorporation some 80 years ago, we have provided custom-designed solutions and equipment of high technological standards to the bulk material handling industry.

We are proud of our reputation for quality, innovation, efficiency and professional ethics, confirmed by some 10,000 prime references in more than 100 countries.

Innovative design, research and development, dedicated engineers, close customer relationships, consistent quality assurance and a global sales and service network are our key assets, sustain our position as a recognised supplier of conveying and storage equipment to the global industry.

Our concept of serving customers' needs across the globe - a strategy which has been pursued for over 80 years - is the essence of our vision and the driving force for the development of every area of our business.

With the present structure of the Aumund Group of companies, we make your business our business by providing the platform for customised products and services suiting the industry and the market in which you operate.

Experienced engineers in our world-wide offices plus a solid network of representatives help us to deliver this commitment.

Franz-Walter Aumund
 FRANZ-WALTER AUMUND

THE GROUP HISTORY



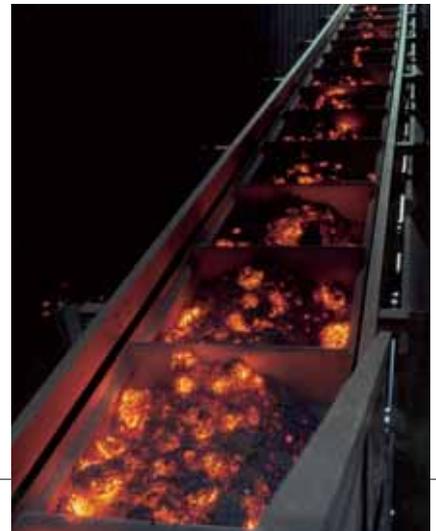
PROFESSOR HEINRICH AUMUND

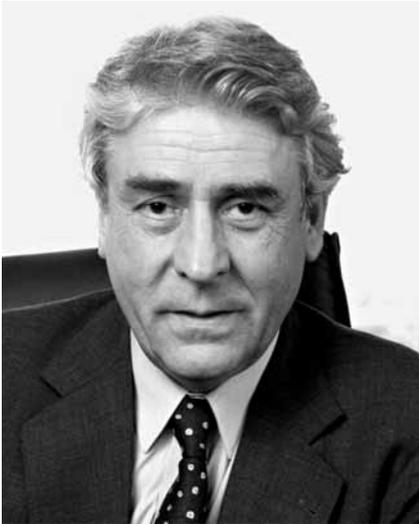
Professor Heinrich Aumund, holder of the chair for conveying and hoisting technique at the Technical University of Berlin, founded the company in 1922. The objective of the company, which started as a design and sales office, was the commercial use of the founder's numerous inventions, confirmed by more than 200 patent applications. Licensees were charged with the production of the equipment which was primarily used in the metallurgical and mining industry.



GÜNTER-CLAUS AUMUND

In 1951, Günter-Claus Aumund took over the expanding enterprise. He targeted production of the equipment on company-owned premises. In 1955, the company acquired a suitable estate in Rheinberg and set up manufacturing workshops where in-house production started in 1957. With the first signs of recession in the Ruhr District's mining industry, Günter-Claus Aumund decided to look for alternative applications for AUMUND conveying technology and soon found a promising market in the cement industry.





FRANZ-WALTER AUMUND

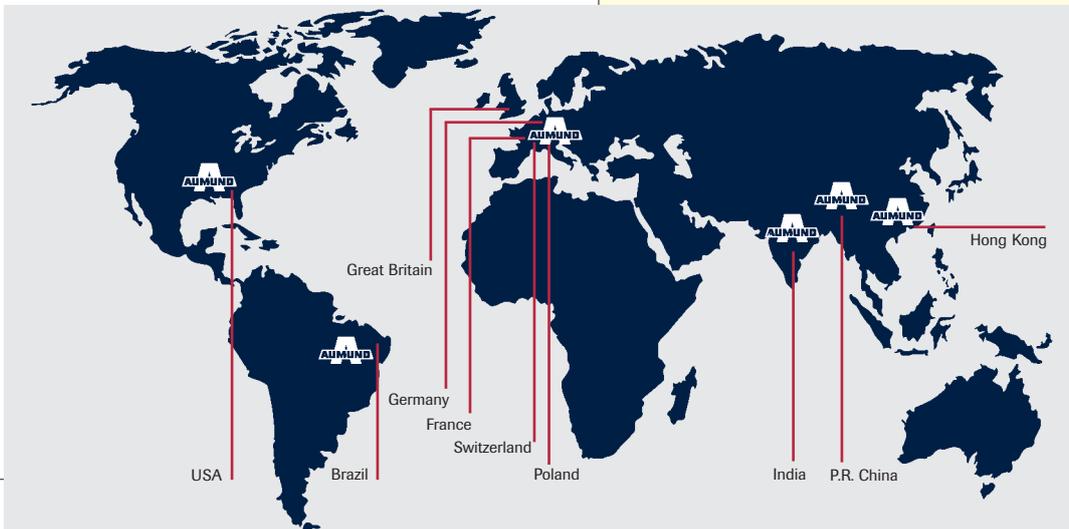
Franz-W. Aumund, the present owner in the third generation, joined the company in 1966. With his strategy targeting a world-wide presence and new markets, he built up an international sales network and introduced the company and its products to the global market. Under his leadership, AUMUND developed into an export-oriented enterprise with exports representing more than 90% of the business. Products are now sold to more than 100 countries world-wide.

To account for the growing importance of the export market and to enhance its global presence, AUMUND started to establish world-wide subsidiaries as early as 1975.

A further step was the extension of the product portfolio through the acquisition of LOUISE (in 1991), SCHADE (in 2001) and B&W Mechanical Handling (in 2002). Today, the portfolio of products and associated technologies covers all aspects of bulk material handling and storage.

With the technological competence, the broad range of products and the extensive after-sales services including pro-active maintenance, the group of companies serves all major process industries.

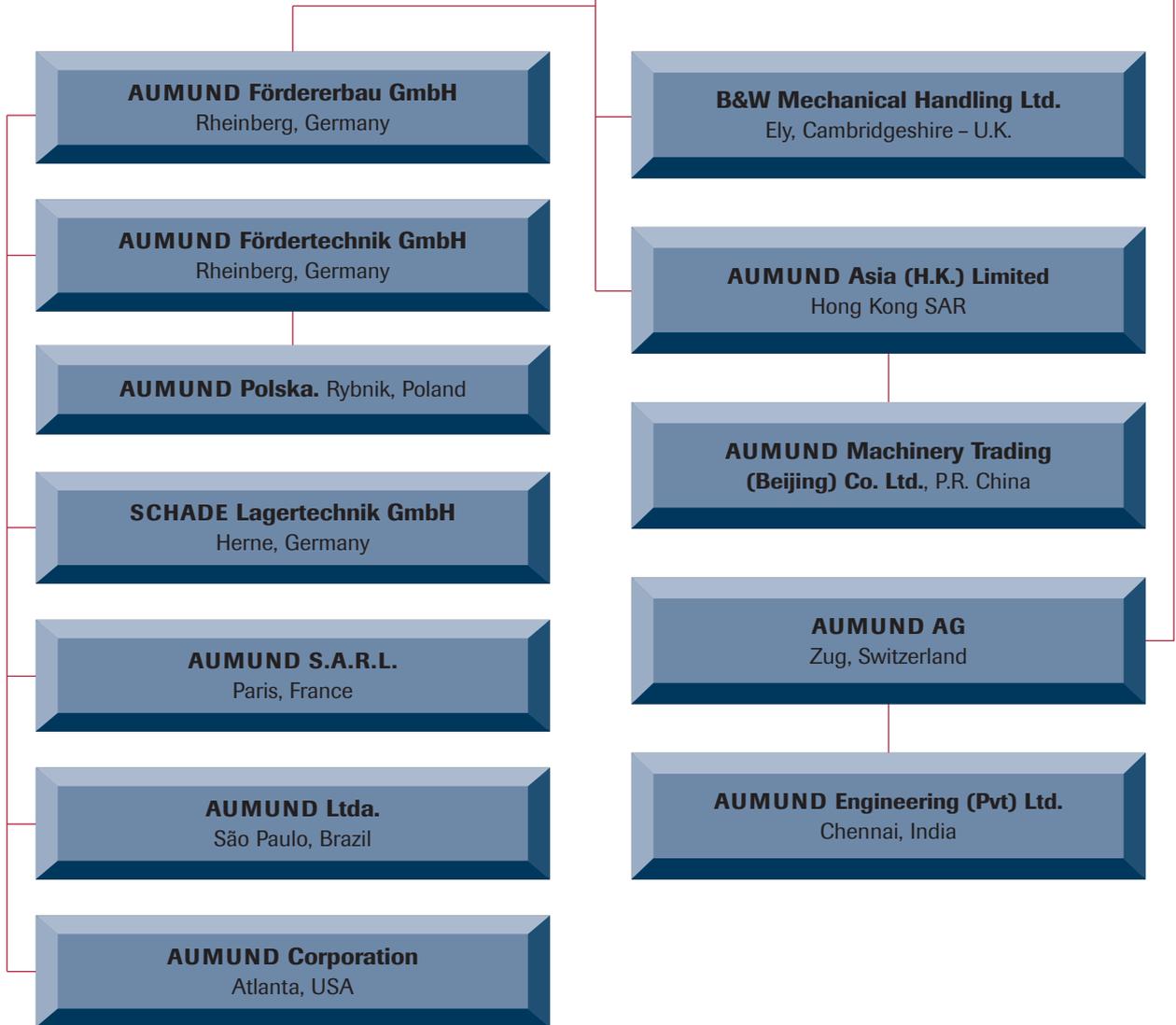
- Cement, lime and gypsum industry
- Metallurgical and mining industry
- Power generating industry
- Fertilizer industry
- Pulp & paper industry
- Ports and terminals





F.-W. AUMUND

AUMUND Holding B.V.
Venlo, The Netherlands



ADMINISTRATIVE SERVICES

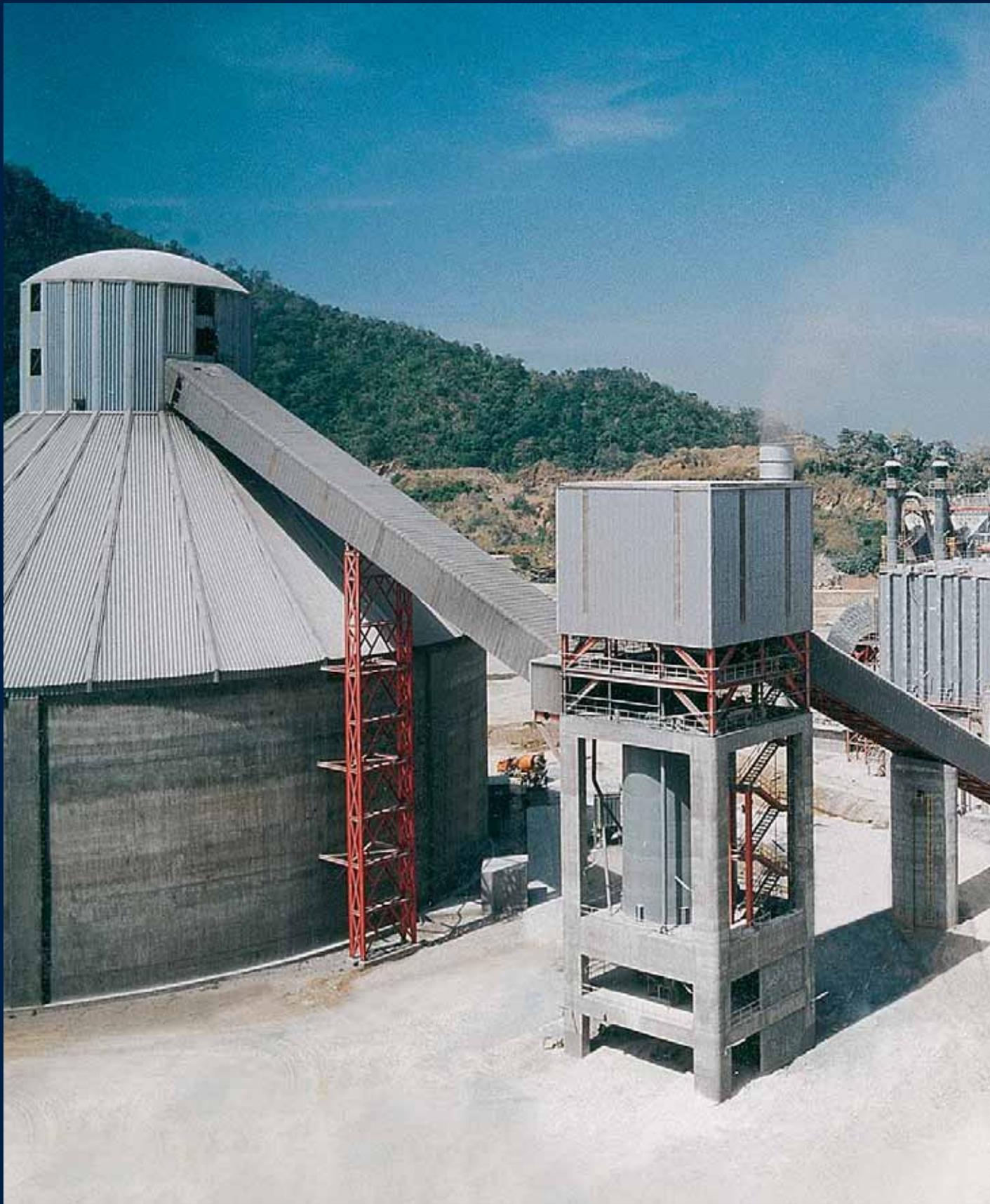
AUMUND Holding B.V. Venlo, The Netherlands	Group Controlling, Marketing, Public Relations, Advertising Agency for all Group Members
AUMUND Fördererbau GmbH Rheinberg, Germany	IT Management, Quality Assurance, Research & Development, Human Resources and Corporate Finance for all Group Members

PRODUCT COMPANIES

AUMUND Fördertechnik GmbH Rheinberg, Germany	Conceptual studies, world-wide sales, project and design engineering, production, world-wide field service, conversions and retrofits, spare parts distribution centre World-wide inspections, pro-active maintenance service and seminars for equipment installed by Group members
SCHADE Lagertechnik GmbH Herne, Germany	Conceptual studies, world-wide sales, project and design engineering, world-wide field service, conversion and retrofits, spare parts distribution centre
B&W Mechanical Handling Ltd. Ely, England	Conceptual studies, world-wide sales, project and design engineering, production, world-wide field service, spare parts distribution centre

GLOBAL COVERAGE

AUMUND S.A.R.L. Paris, France	Conceptual studies, sales, contract management and field service for France, the Maghreb and French-speaking Sub-Saharan Africa
AUMUND Corporation Atlanta, USA	Conceptual studies, sales, contract management, spare parts distribution centre, field service for USA and Canada
AUMUND Ltda. Sao Paulo, Brazil	Conceptual studies, sales, contract management, manufacture, field service for Brazil, Argentina and Bolivia
AUMUND Engineering (Pvt) Ltd. Chennai, India	Conceptual studies, sales, engineering, contract management, manufacture, field service for India, Bangladesh, Myanmar, Sri Lanka, Nepal
AUMUND AG Zug, Switzerland	Conceptual studies, sales and coordination with the product companies
AUMUND Asia (H.K.) Limited Hong Kong SAR	Conceptual studies, sales, contract management, field service for Southeast Asia
AUMUND Machinery Trading (Beijing) Co. Ltd. Beijing, P.R. China	Conceptual studies, sales and customer support, field service
AUMUND Polska Rybnik, Poland	Conceptual studies, sales and customer support





CEMENT, LIME AND GYPSUM INDUSTRY

Since the first pan conveyor for clinker handling was commissioned some 50 years ago, AUMUND has grown to be a recognised specialist for the conveying and storage of all bulk materials pertaining to the cement and related industries.

The comprehensive product portfolio covers all aspects of bulk material handling and storage from the quarry to the dispatch of the finished product, including ship loading.

Identifying technological trends, research and development and innovation to suit the specific demands of plant operation, new process requirements and bulk materials played an important role in developing the Group's reputation as a leading supplier of quality equipment with the highest technological standards.



AUMUND Fördertechnik

CEMENT, LIME AND GYPSUM INDUSTRY

AUMUND Group equipment for handling and storage of the complete range of bulk materials from the quarry to ship loading.

- Limestone, shale, clay
- Aggregates
- Granulated blast furnace slag
- Slag meal
- Coal, coke
- Raw meal
- Clinker
- Filter dust
- Additives
- Cement and lime
- Gypsum rock
- FGD-gypsum
- Stucco

The outstanding performances of AUMUND Fördertechnik equipment, with high handling rates, high material temperature, unmatched lifting heights, large storage capacities and long service life may be credited to our experience, high engineering standards and customised design.



Belt Bucket Elevator for Pre-Heater Feeding



Clinker Transport



Conveying and Storing

- Clinker transport and storage
- Filter or ESP dust reclaim and handling
- Mill hopper feeding
- Cement mill feeding
- Raw meal transport
- Feeding of pre-blending silos
- Feeding of pre-heaters
- Raw material handling in the quarry
- Primary and secondary crusher feeding
- Raw material reception and transfer
- Stacking, storing, blending of raw material, solid fuels and additives
- Coal mill feeding
- Reception and transfer of secondary fuels
- Cement handling in the packing plant
- Truck loading
- Ship loading
- Ship unloading hoppers





METALLURGICAL AND MINING INDUSTRY

Benefiting from the scientific prominence of the business founder in the mining and steel industries, with numerous patents granted and many ideas developed for a range of applications, the metallurgical and mining industry sector represents an important division within the Group.

Since the early days, the range of products has been constantly extended to take into account the technological advances made in the iron making industry with direct reduction processes.

Examples of the expert skills of the Group's engineers are the thus far highest reaching bucket conveyor handling hot compacted iron and the to date largest portal scraper reclaimer for coal with a 62 m span and a reclaim rate of 2,400 t/h.

The scope of supply provides tailor-made equipment for specific applications in mining operations, primary iron and aluminium production, scrap charging and foundries.



AUMUND Fördertechnik

METALLURGICAL AND MINING INDUSTRY

AUMUND's expertise in heavy-duty applications, mineral processing and conveying of hot materials results in innovative solutions and reliable equipment covering all aspects of material handling in the metallurgical and mining industry:

Iron Production

- Reception, storage and handling of reducing materials and additives
- Transport of hot iron ore fines
- Transport and cooling of hot iron ore pellets
- Transport of hot sintered material
- Transport of HCl
- Scrap charging

Primary Aluminium Production

- Bauxite handling and storing in open cast mines
- Ship loading for export of Bauxite
- Materials handling in alumina refining
- Alumina handling in primary aluminium smelters
- Conveying and cooling of hot Cryolite
- Conveying and recycling of cold Cryolite

Foundries

- Conveying and cooling of sand bales in sand casting operations
- Conveying and cooling of castings
- Sorting and cleaning of castings
- Sand handling

Mining

- Bulk materials reception and transfer in the mine or quarry
- Crusher feeding
- Reclaim of crushed material
- Storage, blending and reclaim
- Ship loading for export of minerals



Sinter Transport



Transport and Cooling of Iron Ore Pellets



Transport of Cryolite



Storage and Reclaim of Iron Ore

- Waggon tippers and heavy-duty apron feeders for unloading of minerals
- Stockyards and blending beds
- Pan conveyors and inclined bucket conveyors for processed materials to 1,000 °C
- Conveying in nitrogen-sealed atmosphere
- Cooling conveyors with cooling by convection, air or water spraying

- „En Masse“ chain conveyors
- Pan conveyors or castings or sand molds in foundries
- Scrap charging to electric arc furnaces
- Silo or hopper discharge systems for materials with poor flow property
- Mobile surface feeders, stackers and shiploaders





POWER AND COAL HANDLING INDUSTRY, CEMENT AND FERTILIZER INDUSTRY

The outstanding performance of our stockyard and blending bed equipment, maintained over more than 50 years in coal-fired power generation, is the direct result of innovative engineering and superior product quality.

Profound process knowledge in the hands of our highly skilled mechanical and electrical engineers dedicated to the realisation of effective machine performance ensures the success of every contract

Project-specific design and engineering, combined with solid construction, extremely low wear, easy and cost-effective operation, guarantee the performance expected by operators and investors alike.

Our comprehensive product portfolio, resources and expertise over the vast range of applications in the power, fertiliser and pulp & paper industries allow us to confidently handle any type of bulk material, whether abrasive, powdery, granular, wet, sticky or hot.

SCHADE
AUMUND GROUP

SCHADE Lagertechnik

POWER AND COAL HANDLING INDUSTRY, CEMENT AND FERTILIZER INDUSTRY

SCHADE Lagertechnik meets the challenge of combining traditional values with an innovative approach. With an extensive range of products and services SCHADE engineers provide ecologically viable solutions based on long-standing experience.

Power and Coal handling Industry

- Coal
- Lignite
- FGD Gypsum
- Limestone

Fertilizer Industry

- Potash
- Phosphates
- Salt
- Sulphur
- Urea

Ports and Terminals

Reliable stockyard equipment for the crucial interface between incoming and outgoing commodity flow.



Circular Stockyard for Ore



Stockyard with Stacker and Portal Scraper Reclaimers



Waggon Tipper

Stockyard Equipment:

- Portal, bridge-type or cantilever reclaimers
- Longitudinal stockyards and blending beds
- Fix and mobile stackers
- Waggon tippers
- Circular stockyards and blending beds with portal, semi-portal, bridge-type or cantilever reclaimer



Circular Coal Stockyard



Circular Stacker with Bridge-type Reclaimer



Portal Scraper Reclaimer

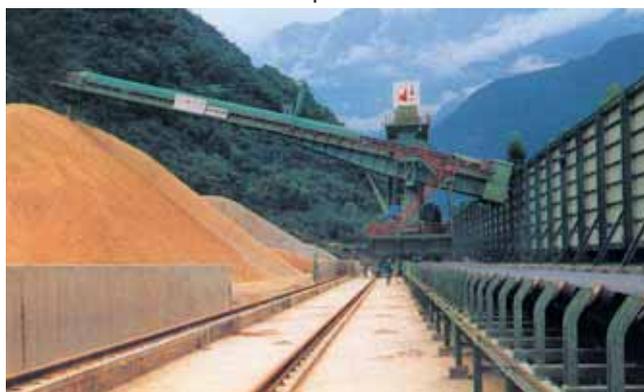
Cement Industry

State-of-the-art and economical design of stockyards and blending beds for:

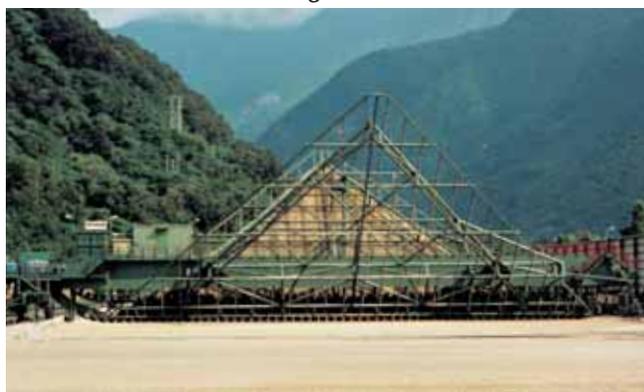
- Limestone, clay, marl
- Coal
- Petcoke
- Gypsum
- GBFS
- Additives
- Clinker



Portal Scraper Reclaimer



Luffing Stacker



Bridge-type Scraper Reclaimer



Cantilever Scraper Reclaimer





PORTS, TERMINALS, CEMENT, LIME AND GYPSUM INDUSTRY

The sustained market diversification programme also targets world-wide port and terminal operations. With a comprehensive range of mobile equipment, stockyard technology and market-driven design, the Ports & Terminal division provides solutions to suit the demands of continuous process applications and to offer a concept adapting to changing market conditions.

In a rapidly changing export commodity market, the Mobile Option may be confidently selected in the knowledge that the equipment may be easily relocated or even resold if a contract is terminated.

Whether for terminal operators, port authorities, shippers or stevedoring companies, the mobile concept offers flexibility and fast-track availability.

B&W
AUMUND GROUP

B&W Mechanical Handling

PORTS, TERMINALS, CEMENT, LIME AND GYPSUM INDUSTRY

For **port and terminal operations** requiring a high degree of flexibility, the B&W mobile concept, combined with state-of-the-art stockyard equipment, offers the flexibility and mobility for a vast range of applications.

Either for single machines or for large-scale installations, the product range guarantees high handling rates, availability and cost-effective solutions for virtually any dry bulk cargo.

- Ecological hopper for bulk material imports from ship cranes or mobile harbour cranes, including gravity discharge gates to the subsequent conveying equipment
- Reception of bulk material delivered by rail car for intermediate storage
- Open stockpiles with Radial boom stacker
- Bulk material reception direct from dump or tipping trucks with the mobile Samson® feeder
- Ship loading with the mobile Shiploader combined with the Samson® surface feeder



Ecological Unloading Hopper



Twin Independent Samson® Feeders Discharge to a Single Shiploader



Mobile Shiploader with Samson® Surface Feeders - Direct Transfer from Truck to Ship

The B&W mobile concept represents a unique approach to bulk cargo handling in ports and terminals and loading vessels from coaster to cape size class:

- new port facilities or terminals targeting low-cost investment
- terminals with limited space, small quays and jetties
- ports with general cargo handling facilities requiring mobile equipment for seasonal use
- expansion of existing ports with dedicated bulk cargo facilities linked to raw material consumers
- ports handling alternative materials requiring additional loading capability for smaller vessels or transshipment



Samson® Surface Feeder with Integrated Crusher

For the **Cement Industry**
B&W Mechanical Handling
offer mobile solutions:

- Surface Feeders
- Radial Boom Stackers
- Shiplading Systems

for fast-track loading and unloading of:

- Cement Clinker
- Coal and Pet Coke
- Clay and Shale
- Limestone
- FDG Gypsum
- GBFS
- Alternative Fuels



Samson® Surface Feeder



Samson® Surface Feeder – Coal and Petcoke Intake



- Handling Alternative Fuels



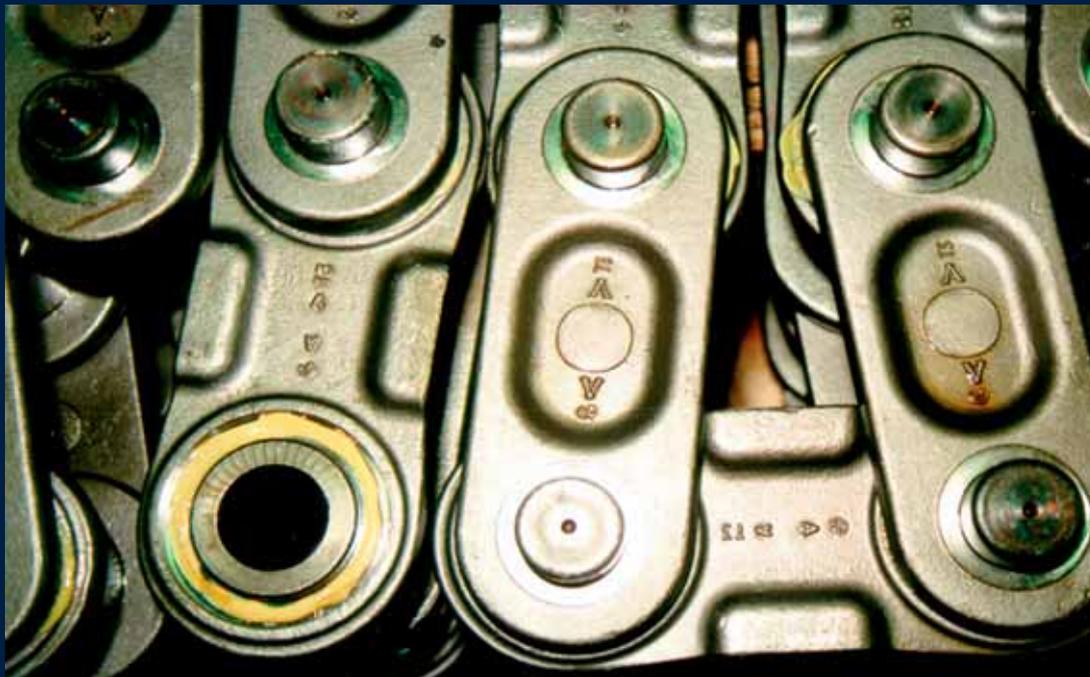
Stormajor – Stockpiling Slag



Shiploader – FGD Gypsum



Commissioning



Spare Parts



AFTER-SALES SERVICE

Service to our customers is our prime concern, extending throughout the lifetime of the equipment: from conceptual planning, design, manufacture, delivery, erection, commissioning and day-to-day operation.

Field Services

The high degree of specialisation of our field service engineers is a major asset of our service. Master fitters with expert knowledge of all products of the AUMUND Group at locations in Germany, India, China, Brazil, the USA, France and Great Britain are available on short notice.

- Supervisor services
- Field assembly
- Test runs and commissioning
- Technical assistance
- Training of operating staff

Spare parts

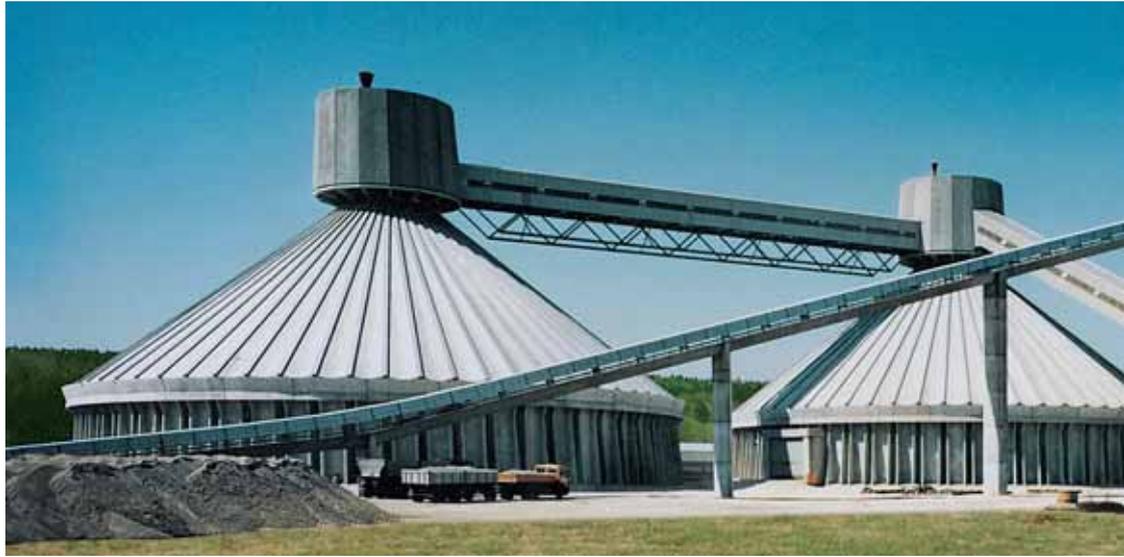
A comprehensive range of genuine spare parts is available for our entire product range from stocks in Germany, England and the USA. Our service staff provides assistance with the choice of the right spare parts and issues quotes on short notice.

Conversions and retrofits

Specialised engineers provide tailor-made solutions for modernisations, refurbishments or retrofits with the prime target of increasing the capacity or improving the degree of availability of existing installations with low capital cost. Conversions are based on thorough investigation, including advice on structural integrity and designed to optimise the existing plant section by improving or replacing major equipment components, keeping in mind a value approach that guarantees high technical standards at a reasonable cost.



Conversions





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