AUMUNDGROUP

PROFILE

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Company Headquarters in Rheinberg/Germany

Ever since incorporation more than 95 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 over 22,000 installations in more than 130 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 90 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-W. 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.

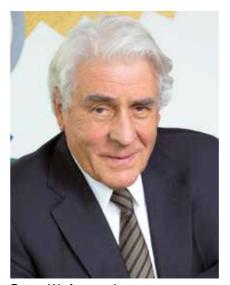




Günter Claus Aumund

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 in1957. 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-W. Aumund

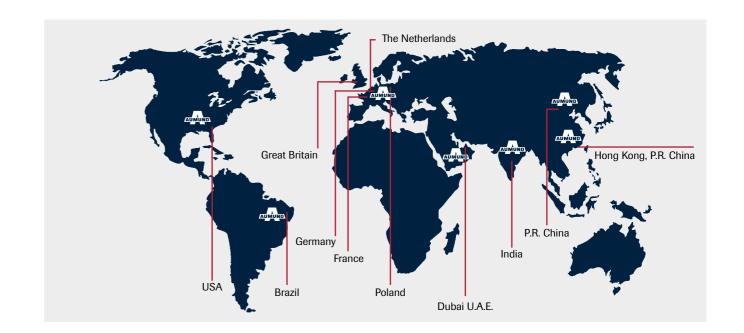
Franz-W. Aumund, the present owner in the third generation, joined the company in 1966. With his strategy targeting a world-wide presence and new markets, he built up an international sales network and introduced the company and its products to the global market. Under his leadership, AUMUND developed into an exportoriented enterprise with exports representing more than 90% of the business. Products are now sold to more than 130 countries worldwide.

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

A further step was the extension of the product portfolio through the acquisition of LOUISE (1991), SCHADE Lagertechnik (2001), SAMSON Materials Handling (2002), WTW Engineering (2006), BESTA & MEYER (2014) and TILEMANN Chains & Components (2016). 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 in the field of conveying, storing and transportation.

- Cement, lime and gypsum
- Metallurgy
- Foundries
- Power Plants
- Mining & Minerals
- · Chemical & Fertilizer
- Alternative Fuels
- Agribulks
- Ports & Terminals



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AUMUND Group Worldwide

AUMUND Holding B.V. Venlo, The Netherlands

AUMUND Fördererbau GmbH

Rheinberg / Germany

AUMUND Fördertechnik GmbH

Rheinberg / Germany Branch Office Dubai / U.A.E. Branch Office Wroclaw / Poland

AUMUND S.A.R.L.

Paris / France

AUMUND Corporation Atlanta / USA

AUMUND Ltda São Paulo / Brazil

AUMUND Machinery Technology (Beijing) Co. Ltd / P.R. China

AUMUND Asia (H.K.) Limited Hong Kong / P.R. China

Engineering Private Ltd Chennai / India

SCHADE Lagertechnik GmbH

Gelsenkirchen / Germany

SAMSON Materials Handling Ltd

Ely, Cambridgeshire / GB Branch Office Bristol / GB

AUMUND Group Field Service GmbH

Rheinberg / Germany

TILEMANN GmbH

Essen / Germany

AUMUND Logistic GmbH

Rheinberg / Germany

AUMUND Holding B.V.

Group Controlling, Compliance, Marketing, Internal and External Communications, Advertising Agency for all Group Members

AUMUND Fördererbau GmbH

IT Management, Quality Assurance, Research & Development, Human Resources and Corporate Finance for all Group Members

AUMUND Fördertechnik GmbH

Branch Office Dubai Branch Office Wroclaw Conceptual studies, worldwide sales, project and design engineering, production, worldwide conversions and retrofits, spare parts distribution centre, worldwide inspections, pro-active maintenance service and seminars and technical trainings.

AUMUND S.A.R.L.

Conceptual studies, sales, contract management and field service for France, the Maghreb and French-speaking Sub-Saharan Africa

AUMUND Corporation

Conceptual studies, sales, contract management, spare parts distribution centre, field service for USA, Canada, Mexico and Central America

AUMUND Ltda

Conceptual studies, sales, contract management, manufacture, spare parts distribution centre, field service for South America

AUMUND Machinery Technology
(Beijing) Co. Ltd

Conceptual studies, sales and contract management,

field service for mainland China

AUMUND Asia (H.K.) Limited

Conceptual studies, sales, contract management, spare parts distribution centre, field service for Southeast Asia

Engineering Private Ltd

Conceptual studies, sales, engineering, contract management,

manufacture, field service for India and Nepal

SCHADE Lagertechnik GmbH

Conceptual studies, worldwide sales, project and design engineering, worldwide conversion and retrofits, spare parts

distribution centre

SAMSON Materials Handling Ltd

Branch Office Bristol

Conceptual studies, worldwide sales, project and design engineering, production, worldwide spare parts distribution centre

AUMUND Group Field Service GmbH

Field services for all associated Group Members and operating subsidiaries throughout the world. In addition, the Field Service Team tenders also for work outside the AUMUND Group

TILEMANN GmbH

Manufacturer of chains and supplier of components for all AUMUND Group Members as well as for third parties

worldwide

AUMUND Logistic GmbH

Worldwide freight forwarder and logistic provider for AUMUND Group Members and their customers as well as for third parties

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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, 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.

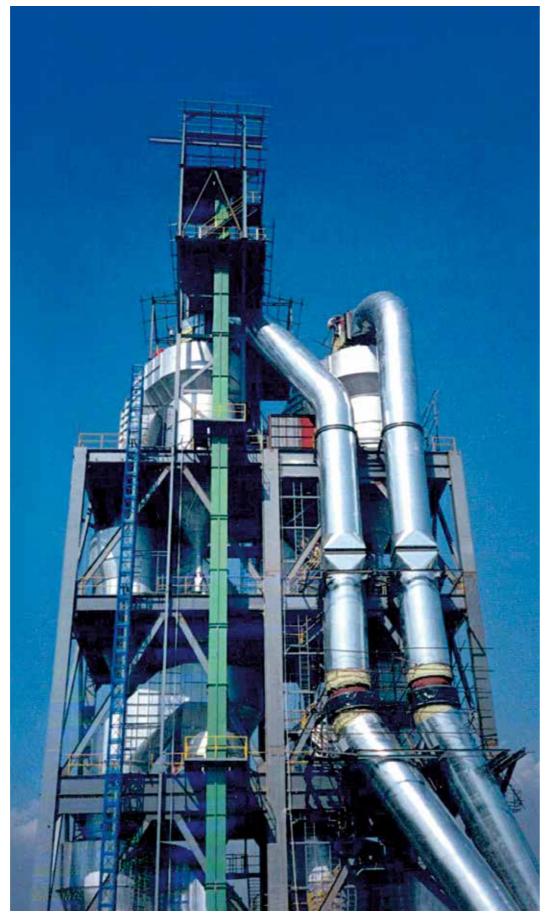


Cement, Lime and Gypsum Industry

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 preheater 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 preheaters
- · 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



Samson® Feeder with integrated crusher



Samson® Feeder - Coal and petcoke intake

For the **Cement Industry** the AUMUND Group offers mobile solutions:

- Surface Feeders
- Radial Boom Stackers
- Shiploading Systems

for fast-track loading and unloading of:

- · Cement clinker
- Coal and pet coke
- Clay and shale
- Limestone
- FDG Gypsum
- Granulated Blast Furnace Slag
- Alternative fuels



Samson® Feeder – Handling alternative fuels



STORMAJOR® - Stockpiling slag



Shiploader - FGD Gypsum



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, iron and steel making, foundries, primary aluminium production.



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 many aspects of material handling in the metallurgical and mining industry:

Ferrous Metallurgy

- Transport of hot Fe-Sinter and hot Fe-Pellets
- Transport of hot DRI/HBI in inert atmosphere
- Cooling of HBI with patented soft mist cooling
- Cooling of Fe-Pellets with air
- Hot charging into EAF

Primary Aluminium Production

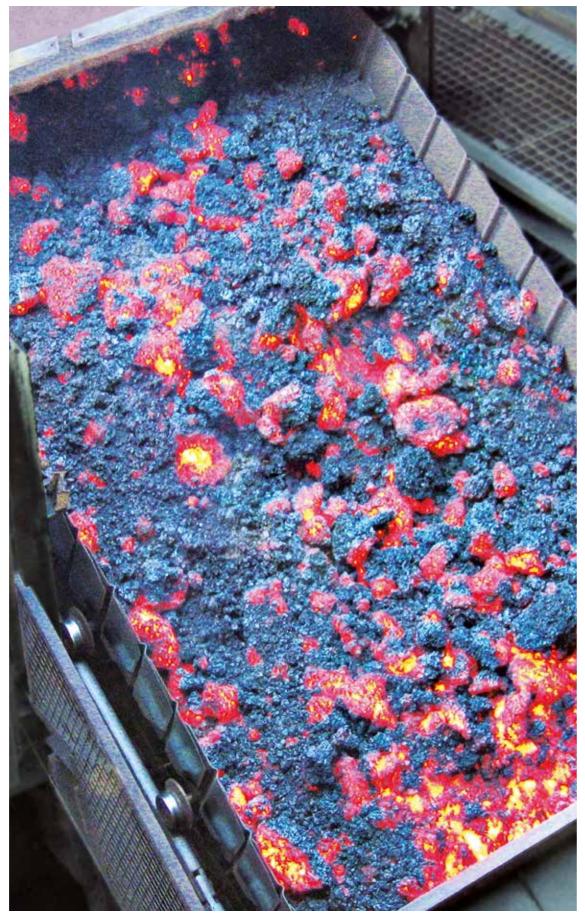
- · Cooling of hot Cryolite / Bath material
- Material handling in Aluminium / Alumina plants

Foundries

- Sorting and cleaning conveyors
- · Conveying and convection cooling of castings
- Sand handling conveyors

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



Transport of hot Fe-Sinter





Storage and reclaim of iron ore

- Wagon tipplers 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
- Pan conveyors for castings or sand molds in foundries
- Hot DRI 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, fertilizer and pulp & paper industries allow us to confidently handle any type of bulk material, whether abrasive, powdery, granular, wet, sticky or hot.



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

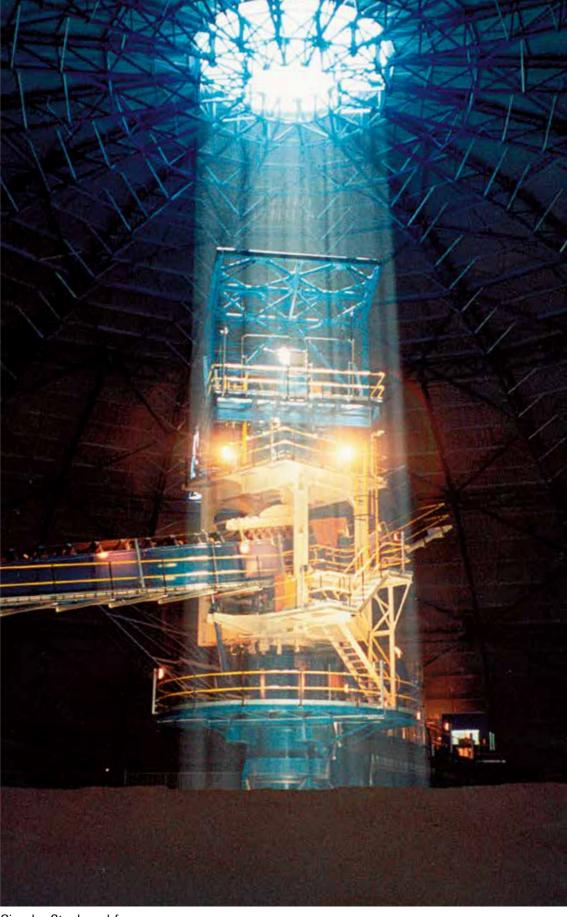
- Coal
- Lignite
- FGD Gypsum
- Limestone

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



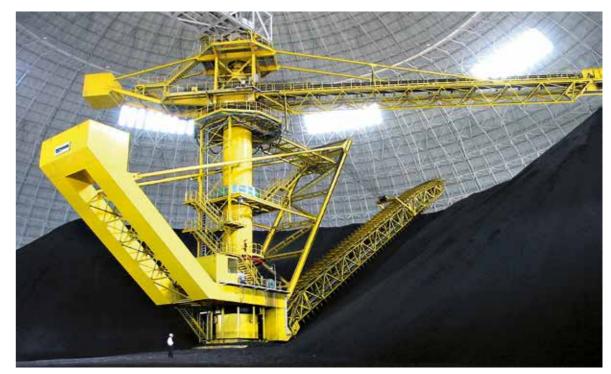
Stockyard with Stacker and Portal Scraper Reclaimers



Wagon Tippler

Stockyard Equipment:

- Portal, bridge-type or cantilever reclaimers
- Longitudinal stockyards and blending beds
- Fixed and mobile stackers
- Wagon tipplers
- Circular stockyards and blending beds with portal, semi-portal, bridge-type or cantilever reclaimer



Storage and reclaim of iron ore



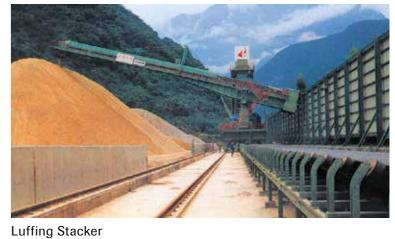
Circular Stacker with Bridge-type Reclaimer



Portal Scraper Reclaimer



Portal Scraper Reclaimer





Bridge-type Scraper Reclaimer



Cantilever Scraper Reclaimer

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 Coal Petcoke • Gypsum

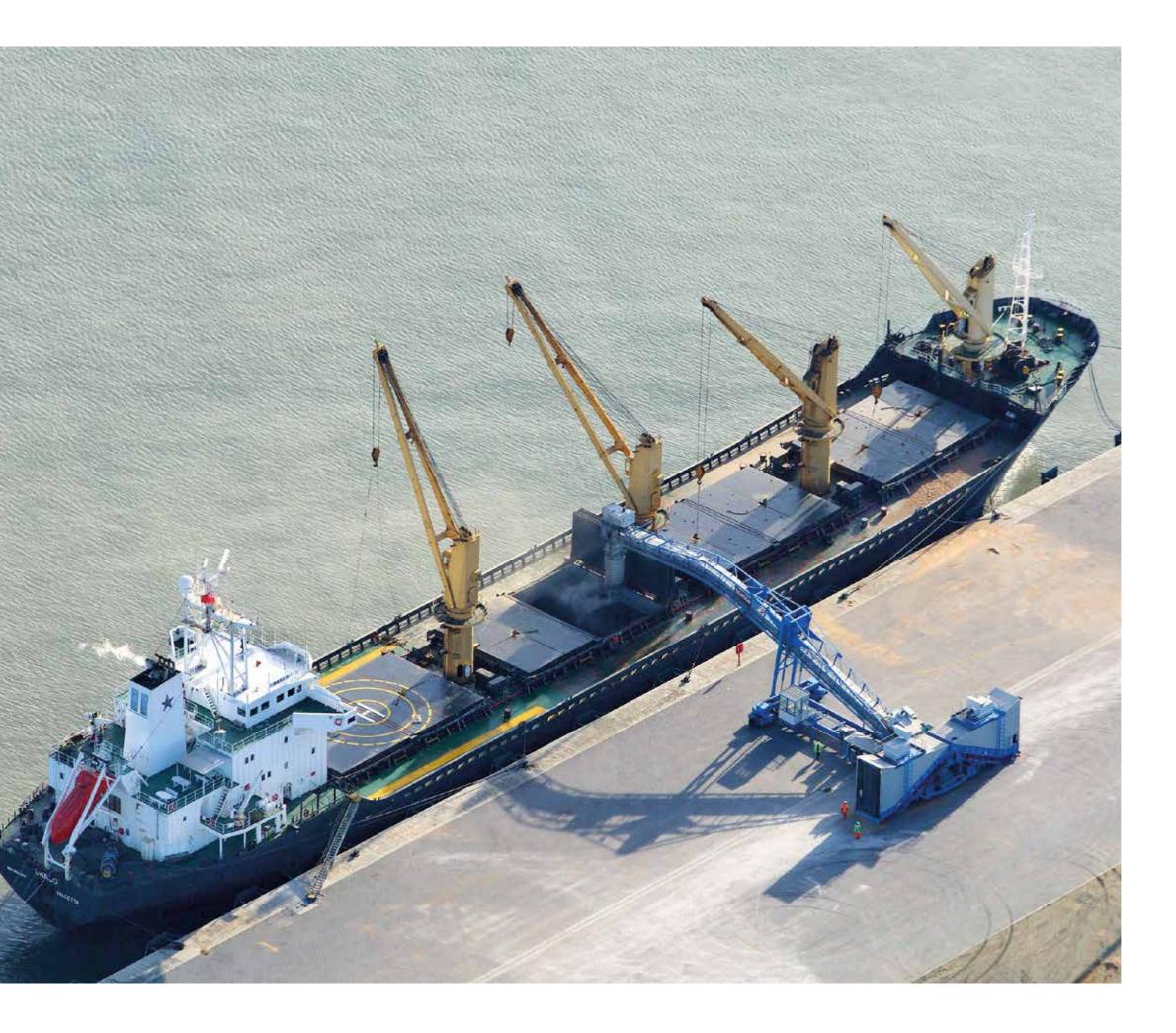
 Additives Clinker

Cement Industry

· Limestone, clay, marl

Granulated Blast Furnace Slag

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



Ports & Terminals, Mobile Bulk Handling

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.

SAMSON

SAMSON Materials Handling

Ports & Terminals, Mobile Bulk Handling

For port and terminal operations requiring a high degree of flexibility, the SAMSON Materials Handling 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 largescale 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[®] Material Feeder
- Ship loading with the mobile Shiploader combined with the Samson[®] Material Feeder



SAMSON Ecological Unloading Hopper



Twin Samson® Feeders discharging to a Mobile Shiploader



SAMSON Mobile Shiploader with Mobile Telescopic Link Conveyor



STORMAJOR® Radial Boom Stacker with integral Samson® Material Feeder at an open stockpile

The SAMSON 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



Logistic Services

As a complement to the AUMUND Group quality products we are able to offer a complete package of logistic services with our own in-house logistic partner AUMUND Logistic GmbH.

Based in Rheinberg Germany, and supported by a world-wide network of agents and partners, AUMUND Logistic handles the in- and outbound consignments of all members of the AUMUND Group.

Its logistic expertise and profound knowledge of handling large machine parts makes AUMUND Logistic a reliable partner not only for the AUMUND Group but also for other interested external companies.

The services of AUMUND Logistic GmbH comprise the traditional offers of an international forwarder active in the areas of

- Seafreight
- Airfreight
- · Overland traffic

Additionally, AUMUND Logistic GmbH offers a comprehensive range of logistic value-added services.

LOGISTIC

AUMUND Logistic



Commissioning



Conversions



Spare parts

After Sales & Field Services

Customer Proximity around the World

At AUMUND, service does not end at the sale of the equipment. It's the beginning of a long-term partnership. AUMUND offers you a full range of services – from commissioning to the delivery of quality spare and wear parts to customized preventive maintenance programs and equipment upgrading. The benefits for you: Maximum equipment efficiency at lower operating cost.

Spare and Wear Parts

A comprehensive range of genuine spare parts is available for our entire product range from stocks in Germany, Hong Kong, Brazil, the USA and Saudi Arabia. Our product specialists provide assistance and respond instantly.

Preventive Maintenance

Knowing beforehand that service will be needed allows you to schedule downtime and save money with timely repairs. Repairs or retrofits can be accurately anticipated allowing for the downtime to be at the most convenient times and at the lowest possible cost.

Retrofits & Modernisation

Aged and worn equipment? Capacity increase needed? Too high operating cost? AUMUND "just as new" retrofits are economical and tailor-made solutions for improving your existing equipment at reasonable cost.

Commissioning and Field Service

Today, presence "on the spot" is an absolute "must". Therefore, our commissioning and service engineers operate from support centers on all continents to guarantee immediate and competent support.



AUMUND Group Spanning the Globe

The AUMUND Group offers efficient solutions for conveying and storage of bulk materials. A particular strength is the technologically mature and extremely reliable machinery for handling all kinds of bulk materials, even hot, abrasive or sticky. Nearly 24,000 installations worldwide substantiate the excellent reputation and good market position of the Group. The companies of the AUMUND Group are active in about 150 countries with 20 locations all over the world and a global network of almost 100 representatives.

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Branch Office Jakarta / Indonesia

AUMUND Engineering Private Ltd / India

SCHADE Lagertechnik GmbH / Germany

SAMSON Materials Handling Ltd / GB

Branch Office Bristol / GB

AUMUND Group Field Service GmbH / Germany

TILEMANN GmbH / Germany

AUMUND Logistic GmbH / Germany

The AUMUND Group operates Service Centres and Warehouses for spare parts in Germany, the USA, Brazil, Hong Kong, Saudi Arabia, and in Great Britain. Almost 60 dedicated Supervisors tend to clients' needs across the globe and a specialized PREMAS® Team provides Preventative Maintenance and Service support including inspection and consulting.

