# AUMUNDGROUP

## PROFILE

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Company Headquarters in Rheinberg/Germany



Ever since incorporation more than 90 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 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.

freen - 4 llee 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 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-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 exportoriented 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 SAMSON Materials 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 and paper industry
- · Ports and terminals







#### ADMINISTRATIVE SERVICES

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

#### **PRODUCT COMPANIES AUMUND Fördertechnik GmbH** Conceptual studies, world-wide sales, project and Rheinberg, Germany 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 Conceptual studies, world-wide sales, project and Gelsenkirchen, Germany design engineering, world-wide field service, conversion and retrofits, spare parts distribution centre **SAMSON Materials Handling Ltd.** Conceptual studies, world-wide sales, project and Ely, U.K. 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, spare parts distribution centre, field service for Brazil, Argentina, Uruguay, Paraguay and Bolivia
AUMUND Engineering (Pvt) Ltd. Chennai, India	Conceptual studies, sales, engineering, contract management, manufacture, field service for India and Nepal
AUMUND AG Zug, Switzerland	Sales and key account services in Switzerland for all product companies of the AUMUND Group
AUMUND Asia (H.K.) Limited Hong Kong SAR	Conceptual studies, sales, contract management, spare parts distribution centre, field service for Southeast Asia
AUMUND Machinery Trading (Beijing) Co. Ltd. Beijing, P.R. China	Conceptual studies, sales and contract management, field service for mainland China
AUMUND Representative Offices Moscow, Russia and Dubai, UAE	Conceptual studies, sales and customer support

#### LOGISTIC SERVICES

#### AUMUND Logistic GmbH Rheinberg, Germany

International freight forwarder and logistic provider for AUMUND Group Members and customers





### 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

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
- GBFS
- Alternative fuels



Samson® Feeder – Handling alternative fuels



Samson® Feeder – Coal and petcoke intake





Stormajor<sup>®</sup> – 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





Transport and cooling of HBI



Storage and reclaim of iron ore

- Waggon 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 costeffective 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



**Stockyard Equipment:** 

- Portal, bridge-type or cantilever reclaimers
- Longitudinal stockyards and blending beds
- Fixed and mobile stackers
- Waggon 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



#### **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







Portal Scraper Reclaimer



Luffing Stacker



Bridge-type Scraper Reclaimer



Cantilever Scraper Reclaimer





### 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 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



SAMSON Mobile Shiploader with Mobile Telescopic Link Conveyor



Twin SAMSON Feeders discharging to a Mobile Shiploader





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.



### AUMUND Logistic



Commissioning



Conversions



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, Hong Kong, Brazil 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.

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