Conveying, Storing, Reclaiming in the Lime and Gypsum Industries
AUMUND Group products offer a wide range of solutions for the Lime and Gypsum Industries:

- for bulk material handling in quarries
- for reception, storage, discharge and transfer of material in processing plants
- for bulk material loading at shipping points

- limestone
- limemeal
- quicklime
- natural and synthetic gypsum
- stucco
- plaster
- coal and petcoke
a wide range
Gypsum Industries
transfer
points
Quarrying

Bulk Material Receiving
Unit type SAMSON™

The B&W SAMSON™ Feeder receives bulk materials direct from tipping trucks and loading shovels providing a buffer storage capacity and a controlled rate discharge.

The SAMSON™ offers high performance with proven reliability operating in continuous process industries worldwide.

Mobile SAMSON™ in a quarry with integral sizer receiving from dump trucks
Installed above ground with no need for deep pits and expensive civil engineering works the SAMSON™ is a flexible alternative to traditional underground hoppers. Using the wide belt design principle any material may be reliably conveyed without risk of bridging or blockage. Since material is drawn from the tipping truck in a controlled stream dust generation is significantly reduced minimising environmental pollution.

**Mobile Link Conveyor type MLC**

The self propelled B&W Link Conveyors operate in applications with mobile face crushers to form an integrated mining package. Equipped with powered manoeuvring systems and in-line and parallel travel, the Link Conveyors may be rapidly moved and repositioned clear of the face for blasting.
Processing

**Apron Feeder with Arched Plates type BPB**

The AUMUND Apron Feeder with arched plates, type BPB, is ideal for the transport of moist, sticky materials such as limestone, gypsum or anhydrite. This standard version with arch-shaped plates enables easy cleaning with a scraper.

![Apron Feeder with Arched Plates](image1)

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**Heavy Duty Apron Feeder type BPB-S or SF**

The heavy duty version features reinforced plates, forged caterpillar chains and, for extreme loads, stationary rollers. This type is used to handle material blocks of 1,000 mm or more, to feed crushers or to reclaim crushed limestone or dolomite.

![Heavy Duty Apron Feeder](image2)

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**Heavy Duty Apron Feeder**
- Transfer from dump truck to tipping truck
- Feeder with stationary rollers
Apron Weigh Feeder type DPB

The Apron Weigh Feeder performs two operations in one step:
Reclaiming and Weighing.
A weighing rail integrated into the conveyor track next to the drive station controls the actual discharge rate.
For proportional reclaim of bulk materials with poor flow properties such as Clay, Gypsum, Marl, Limestone, Puzzolana etc. the Apron Weigh Feeder features arched plates especially designed for cohesive materials.

Apron Weigh Feeder with arched plates, type DPB-B
Handling moist additives

Proportional feeding of coarse bulk materials is performed with the Apron Weigh Feeder featuring deep-drawn pans.
For mill feeding the Apron Weigh Feeder is also available as enclosed and pressure-tight unit.

Apron Weigh Feeder with deep drawn pans, type DPB-K
for coarse materials
Chain Conveyor type LOUISE TKF

LOUISE Chain Conveyors to convey, feed or discharge limestone, gypsum, quicklime, filter dust or any other coarse or fine bulk material are designed for a long service life in various applications.
Chain Conveyor with armoured Chains type PKF

Armoured chain conveyor for hopper discharge of crushed limestone or sticky material such as chalk, gypsum, clay or coal.
- Low overall height
- Two to five strand chain
- Reclaiming to 1,200 t/h

Armoured chain conveyor with paddle wheel
Bucket Elevator type BWG or BWZ

AUMUND Bucket Elevators with steel-reinforced belt, type BWG or with central chain, type BWZ, have a proven track record for their high quality standard, reliability and long service life. Installed with lifting heights exceeding 140 m and capacities up to 1,500 t/h, AUMUND bucket elevators handle a large variety of bulk materials and are designed to suit numerous applications.
Rotary Discharge Machine
type LOUISE BEW-K

LOUISE Rotary Discharge Machines are ideally suited for the discharge of difficult materials with poor flow properties.

For installation in silos with diameters to 12 m.

- Simultaneous feeding and discharging
- Discharge capacities to 3,000 m³/h infinitely adjustable
- First in – First out
- Low power demand
- Easy access and maintenance
- Automatized operation

The conical roof covers the entire rotating unit consisting mainly of the rotating service platform and discharge wheel.

Silo with Rotary Discharge Machine type LOUISE BEW-K
Rotary Discharge Machine
type LOUISE BEW-L

The Rotary Discharge Machine type BEW-L for longitudinal travel reclaims bulk materials from underneath rectangular hoppers or silos installed in a row.

Alternative designs provide solutions for a variety of applications. All feature the logarithmically shaped discharge arms and automatic operation including reverse travel.

Rotary Discharge Machine for longitudinal travel, type LOUISE BEW-L block design with double-side discharge.

The machine moves inside a tunnel and reclaims the bulk material from both sides with adjustable reclaim capacity.

The drive components are either located in a solid casing or on the carriage as shown below.
Rotary Discharge Machine for longitudinal travel, Type LOUISE BEW-L low profile design allows for single side or double-side discharge. The machine is installed on the conveyor structure and moves along the hopper shelve. For double side discharge the machine is arranged between two shelves and fitted with a double swivel drive.
Silo Discharger CENTREX™ type LOUISE CTX

Trouble-free silo discharge for sticky and cohesive materials with poor flow properties.

The logarithmically shaped discharge arm moves the bulk material toward the central outlet underneath the inner cone, where it is discharged into a chute and the subsequent conveying equipment.

The discharge arm attacks the material from the base of the column reaching beyond the outlines of the silo wall. This prevents sticking and accumulations and thus avoids bridging.
Three basic alternatives are available with the CENTREX™. The choice depends either on the technical features of the bulk material or on the type of application within a given process.

Three basic alternatives:
- CENTREX™ with internal drive type CTX-I
- CENTREX™ with external drive and stationary inner cone type CTX-A
- CENTREX™ with external drive and rotating inner cone type CTX-AD

The CENTREX™ with external drive and rotating cone fitted with a second slewing ring is ideal for easy installation with existing silos or hoppers. No modification work is required inside the silo or hopper.
Scraper Reclaimers

The SCHADE Lagertechnik product portfolio features stackers and scraper reclaimers to suit all storage and blending needs. Portal, semi portal, bridge-type or cantilever reclaimers for longitudinal or circular stockyards and blending beds for:

- Limestone
- Natural and FGD gypsum
- Coal
- Petcoke
- Minerals and additives.

FGD gypsum storage with Portal Scraper Reclaimer

Limestone blending with circular bridge-type reclaimer

Semi-Portal Scraper Reclaimer in limestone storage hall
Shipping

B&W AUMUND GROUP

Ship, Barge and Truck loading systems

B&W mobile loading systems are designed to handle the complete range of dry bulk cargoes and offer the level of performance normally associated with fixed installation.

The STORMAJOR™ a universal bulk loader with radial and luffing outloading boom permits fast track stockpiling and loading of ships, barges or railcars.

Mobile Shiploader

The B&W Mobile Shiploader, available with a wide range of optional equipment, offers complete flexibility as an economical alternative to expensive fixed installations.

Combined with the SAMSON™ receiving unit, the Mobile Shiploader offers fast track vessel loading with handling rates up to 2,000t/h.
Conversions and Refurbishments

- Upgrading of existing plant components
- Targeting increased efficiency
- Higher output
- Improved availability

With our expert team of engineers planning selective modernisation measures, we pay special attention to the upgrading of existing plant components, targeting increased efficiency, higher output rates and improved availability.

Upgrading of your materials handling and storage equipment to state-of-the-art technology is achieved through a tailor-made refurbishment process under optimum utilisation of time and budget. Most of the existing components are re-used in the refurbishment process to save cost.

Engineered conversions and refurbishments for increased efficiency and output are performed on AUMUND equipment as well as on the equipment of other manufacturers.
After-Sales 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.

- **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.

- **Spare and Wear Parts**
  A comprehensive range of genuine spare parts is available for our entire product range from stocks in Germany, Hong Kong and the USA. Our product specialists provide assistance and respond instantly.

- **Retrofits**
  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.

- **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.
Your partner for all requirements regarding material handling and storage.
We design, engineer, manufacture, erect and service reliable equipment.
Reputation and competence proven by more than 10,000 installations in over 100 countries.

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