



Conveying and Storing in the Aluminium Industry



Throughout 90 years of industrial construction AUMUND has been a trendsetter in conveying technologies.

AUMUND equipment is installed in 140 countries operating in the mining and metallurgical industry, power stations, the cement, lime and gypsum industry and bulk terminals.

AUMUND steel plate conveyors with pans or buckets have a proven track record in handling high temperature bulk materials, also featuring the adequate design for the various operating conditions and requirements.

AUMUND equipment in Primary Aluminium Smelting operations:

- Alumina reception and transfer into the smelting process
- Handling of green anode paste
- Materials handling at the anode rodding plant
- Distribution of enriched alumina into the alumina supply hoppers
- Bath material transport and cooling
- Recycling of waste material into the process for grinding and reprocessing



Cooling conveyor with dedusting main pipe



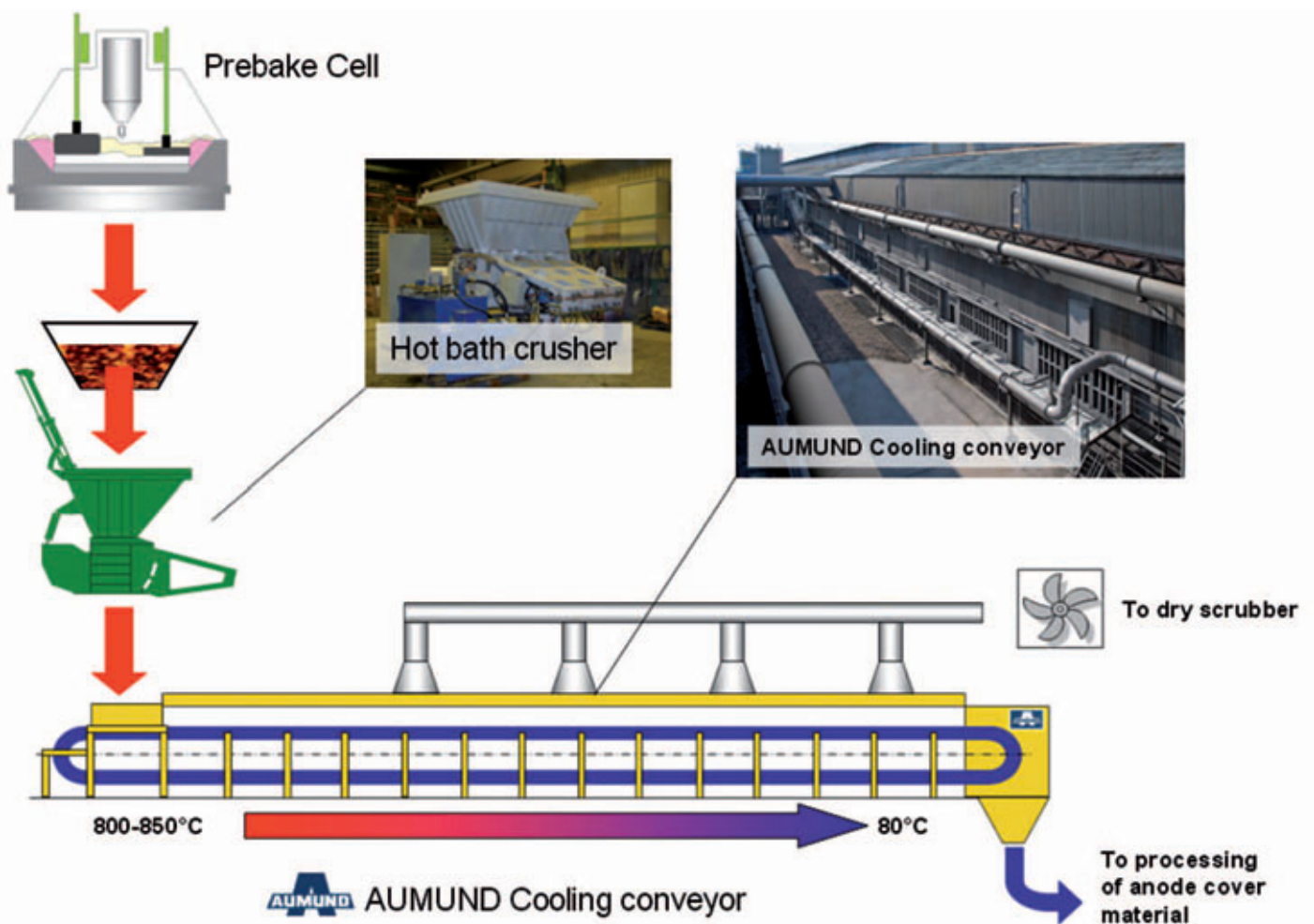
Bath material cooled down from 850 °C to 100 °C

Handling of Bath Material

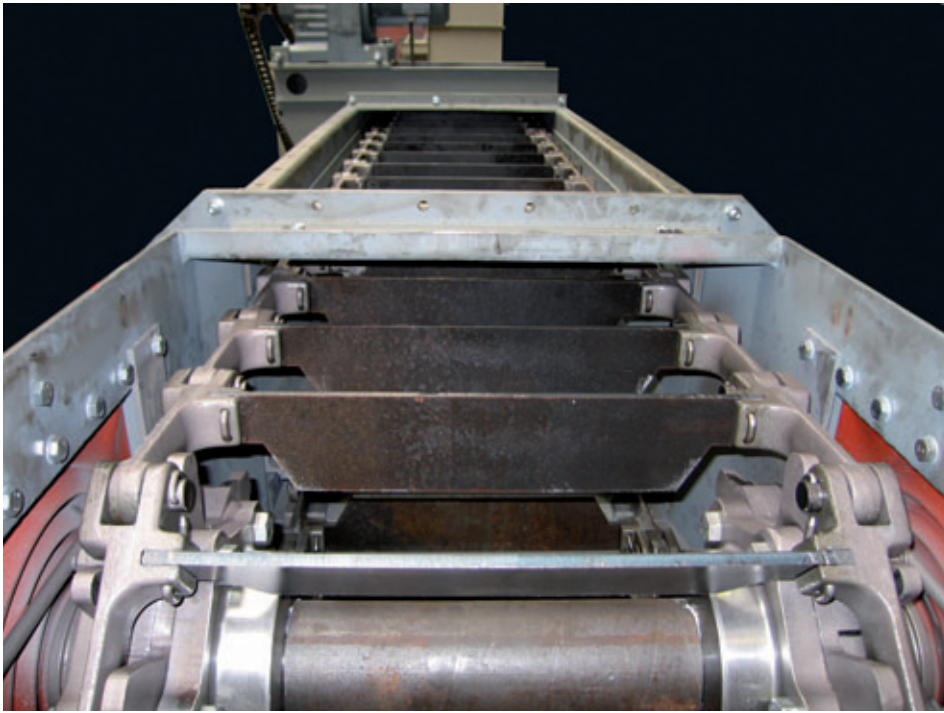
- Controlled cooling and clean handling
- Defined cooling from 850°C down to below 100°C
- Drastic reduction of HF emissions through controlled suction
- Improved environmental and health conditions
- Heat recovery
- Economical and efficient
- Reduced investment – no skips and skip storage area required
- Reduced operating cost – no double handling of skips avoiding required vehicles and operators

For plants operating with the prebake technology, the AUMUND Deep-Drawn Pan Conveyors ensure economical and ecological bath material handling and cooling.

The fluorine rich hot bath material cools down on the conveyor moving with an average speed of 0.15 m/min. The material is cooled down to the required temperature before further processing. The conveyor is designed to suit the hot bath recycling capacity of the smelter.



Schematic of Bath Material handling



Troughed chain conveyor handling alumina, lime or filter dust

AUMUND equipment in Alumina Refining operations

- Bauxite reception at the refining plant
- Bauxite storage and reclaim
- Bauxite transfer to the mill
- Transport of caustic soda, alumina, lime and filter dust
- Disposal of red mud at the waste pond or landfill lagoon



CENTREX™ Automated bauxite discharge



Shiploader for alumina and bauxite handling



SAMSON™ Surface Feeder for red mud

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.



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AUMUNDGROUP

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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