



Conveying and Storing in the Aluminium Industry





Cooling conveyor with dedusting main pipe

AUMUND equipment in Primary Aluminium Smelting operations:

Since more than 90 years of industrial construction AUMUND is 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.

- 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



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



Handling of Bath Material

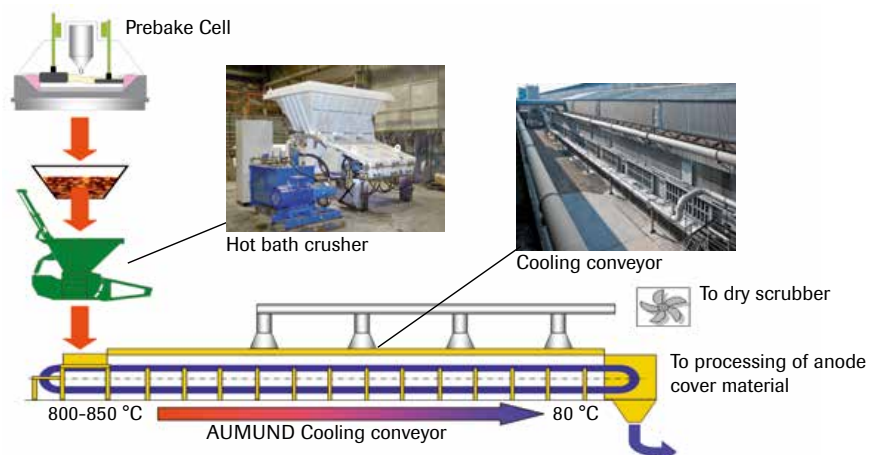
- Controlled cooling and clean handling
- Defined cooling from 850 °C down to below 100 °C
- Drastic reduction of HF emissions through controlled suction
- Improved environmental and health conditions
- Heat recovery
- Economical and efficient
- Reduced investment – no skips and skip storage area required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

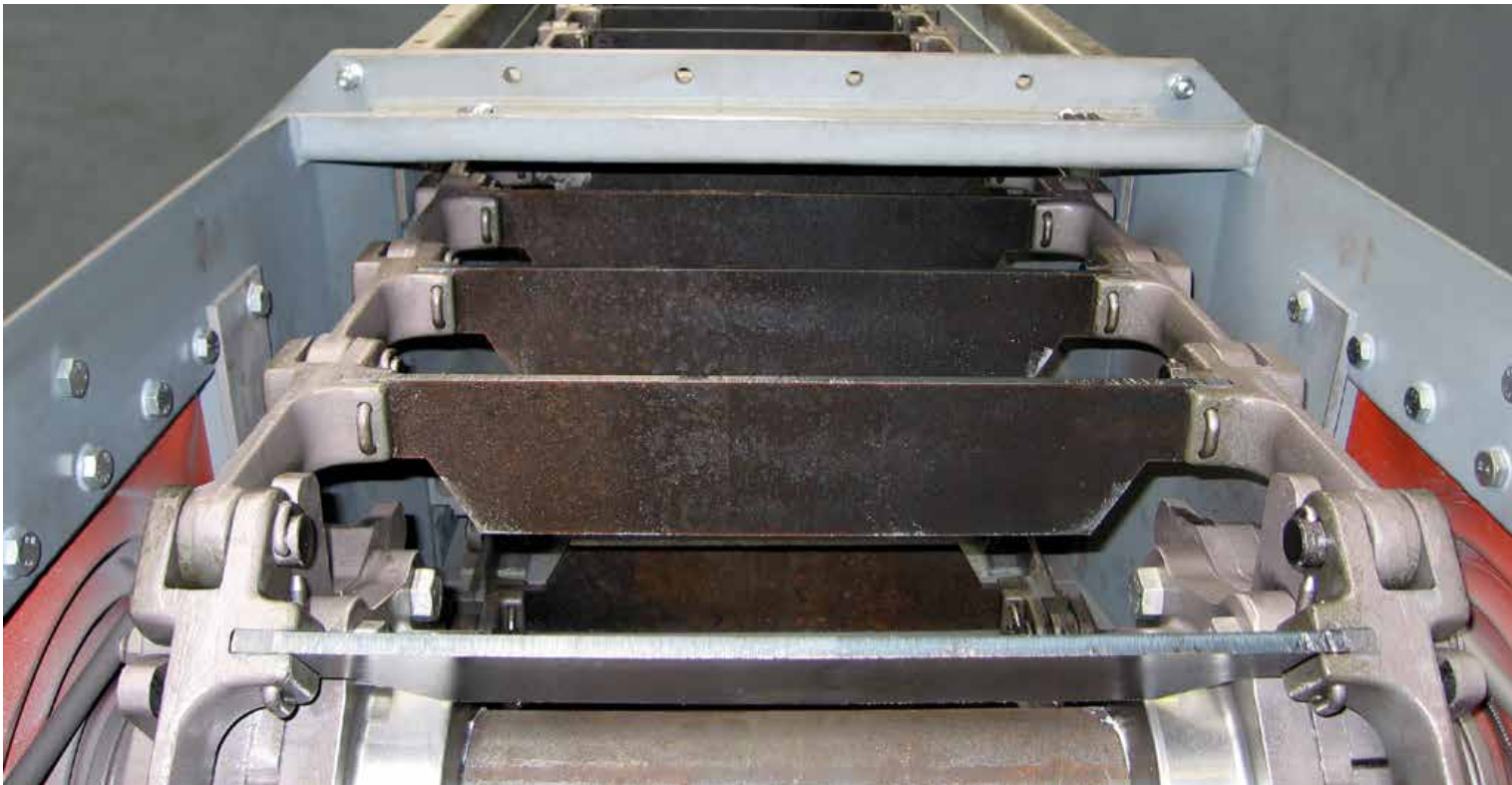
For plants operating with the prebake technology, the AUMUND Deep-Drawn Pan Conveyors ensure

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.





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



Shiploader for alumina and bauxite handling



Samson® Feeder for red mud



CENTREX® automated bauxite discharge



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