



## 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

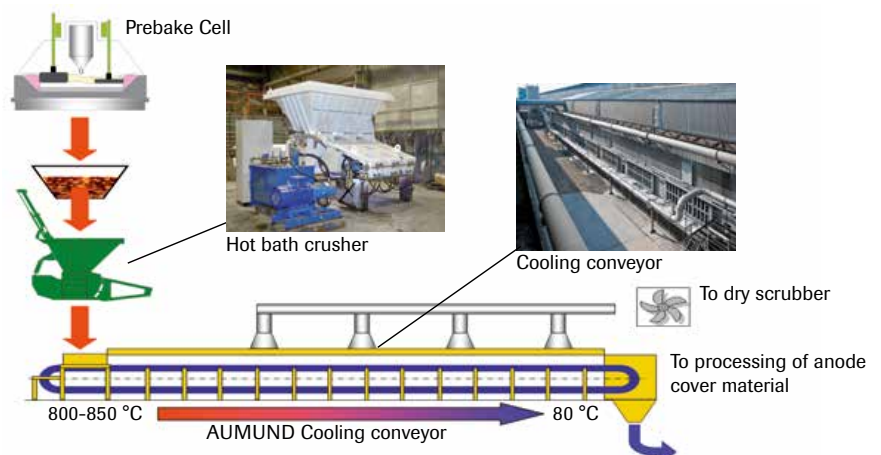
- Controlled cooling and clean handling
- Defined cooling from 850 °C down to below 100 °C
- Drastic reduction of HF emissions through controlled suction
- Improved environmental and health conditions
- Heat recovery
- Economical and efficient
- Reduced investment – no skips and skip storage area required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

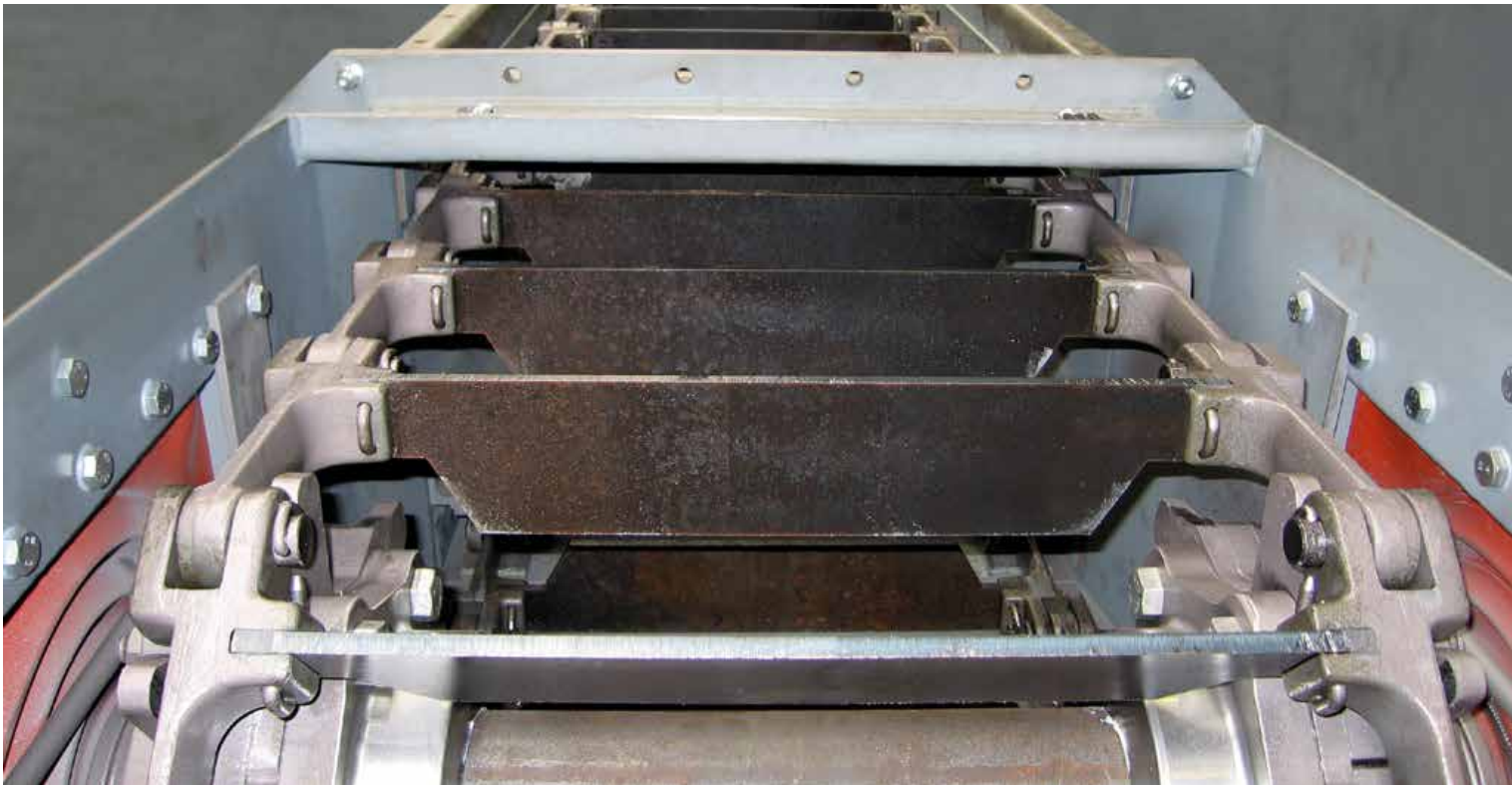
For plants operating with the prebake technology, the AUMUND Deep-Drawn Pan Conveyors ensure

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



AUMUND headquarters in Rheinberg, Germany

**GERMANY****AUMUND Fördertechnik GmbH**

Saalhoffer Str. 17  
47495 Rheinberg  
Phone: +49 - 2843 - 72 0  
Fax: +49 - 2843 - 6 02 70  
info@aumund.de  
www.aumund.com

**AUMUND Logistic GmbH**

Saalhoffer Str. 17  
47495 Rheinberg  
Phone: +49 - 2843 - 72 0  
Fax: +49 - 2843 - 7 24 73  
logistic@aumund.de  
www.aumund.com

**SCHADE Lagertechnik GmbH**

Bruchstraße 1  
45883 Gelsenkirchen  
Phone: +49 - 209 - 50 31 60  
Fax: +49 - 209 - 50 31 62 88  
sales@schade-lagertechnik.com  
www.schade-lagertechnik.com

**GREAT BRITAIN****SAMSON Materials Handling Ltd.**

Gemini House Cambridgeshire  
Business Park, 1 Bartholomew's Walk  
Ely, Cambridgeshire CB7 4EA  
Phone: +44 - 1353 - 665 001  
Fax: +44 - 1353 - 666 734  
sales@samson-mh.com  
www.samson-mh.com

**INDIA****AUMUND Engineering Private Ltd.**

2nd Floor, Lakshmi Neela Rite Choice  
Chambers · 9, Bazulla Road,  
T. Nagar Chennai - 600 017  
Phone: +91 - 44 - 4393 63 00  
Fax: +91 - 44 - 2815 60 46  
aumund@vsnl.com

**HONG KONG SAR****AUMUND Asia (H.K.) Limited**

Unit 3B & 5, 30/F.  
148 Electric Road  
North Point  
Hong Kong  
Phone: +852 - 3695 - 43 33  
Fax: +852 - 3695 - 43 11  
info@aumund-asia.com

**DUBAI U.A.E.****AUMUND Fördertechnik GmbH Representative Office**

P.O. Box 35291  
Dubai, UAE  
Phone: +971 - 4 - 2823762  
catalina@aumund.com

**THE NETHERLANDS****AUMUND Holding B.V.**

Wilhelminapark 40  
5911 EE Venlo  
Phone: +31 - 77 - 320 01 11  
Fax: +31 - 77 - 320 07 28  
info@aumund-holding.nl

**USA****AUMUND Corporation**

1701 Barrett Lakes Blvd  
Barrett Lakes Center I  
Suite 450  
Kennesaw, GA 30144  
Phone: +1 - 770 - 590 - 38 01  
Fax: +1 - 770 - 953 - 48 44  
sales@aumundusa.com

**FRANCE****AUMUND France S.A.R.L.**

43, rue de Trévisse · F 75009 Paris  
Phone: +33 - 1 - 42 46 72 72  
Fax: +33 - 1 - 42 46 72 74  
aumund@aumund.fr

**RUSSIA****AUMUND Representative Office**

German-Russian House, Office 44  
ul. Malaja Pirogovskaja 5  
119435 Moscow / Russia  
Phone: +7 - 495 - 287 90 02  
Fax: +7 - 495 - 287 90 06  
info@aumund.ru

**SCHADE Representative Office**

German-Russian House, Office 44  
ul. Malaja Pirogovskaja 5  
119435 Moscow / Russia  
Phone: +7 - 495 - 287 90 03  
Fax: +7 - 495 - 287 90 06  
info@aumund.ru

**BRAZIL****AUMUND Ltda.**

Avenida Eng. Luis Carlos Berrini  
716 - 4.andar - conj. 41  
04571-000 - São Paulo / SP  
Phone: +55 - 11 - 3059 0160  
Fax: +55 - 11 - 3059 0161  
aumund@aumund.com.br

**SWITZERLAND****AUMUND AG**

Arther Str. 3  
6301 Zug  
Phone: +41 - 41 - 710 10 82  
Fax: +41 - 41 - 710 42 02  
info@aumund.ch

**P.R. CHINA****AUMUND Machinery Trading (Beijing) Co. Ltd.**

Room 2205-2208, East Ocean Centre  
No. 24A, Jian Guo Men Wai Street  
Chaoyang District  
Beijing 100022  
Phone: +86 - 10 - 65 15 58 13 / 14  
Fax: +86 - 10 - 65 15 58 15  
aumund@aumund.cn