

**Process Technology**



# Allgaier Process Technology

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## **Expertise is our strength**

The Process Technology division takes a new approach to the complex requirements of the market. With its core brands of Allgaier, Mogensen, Gosag and Mozer as well as a global presence in more than 30 countries, this division delivers both standardized and custom systems for Industrial Washing, Drying, Cooling, Screening and Sorting.

Based on experience from approximately 20,000 tests, the Allgaier Group offers custom products for its more than 8000 customers in the processing industry in a wide variety of sectors such as chemicals and pharmaceuticals, food-stuffs and fodder, waste and recycling, mining and metallurgy as well as biofuels, wood, ceramics, plastics, crude and manufactured minerals.

The group of companies is able to look back on more than 50 years of experience in the field of Process Technology.

Close cooperation between the individual companies within the Allgaier Group is both exemplary and unique. Intercultural competence and the continuous improvement of the process and operational structure ensure that quality can be maintained, production increased and resource consumption reduced.

**Integrated thinking and acting – that is what puts us out in front.**







WASHING

DRYING

COOLING

SCREENING

SORTING

## Washing

Clients from all over the world use Allgaier Washing machines for various functions such as cleaning minerals and sand, removing foreign particles, handling sludge and contaminated soils, producing high-performance sands, as well as for adapting the grain size distribution of particle mixtures.

The performance and accuracy of these custom systems are significantly higher than conventional washing wheels or augers. For example, greater friction between the particles ensures high-performance sands can be produced with minimal impurities.

Depending on the task facing the client, a modular system makes it possible to choose between pumps, motors, tank systems and hydrocyclones.

**Reliability, precision and performance – these are the most important properties of our systems.**

**ALMO**  
Allgaier Mogensen

**GOSAG**





## Drying

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Allgaier offers its customers Dryer Systems based on the fundamental principles of rotating drum dryers and fluidized bed technology.

These technologies are used in the processing industry for building materials and minerals, in mining, crude and manufactured minerals, chemicals, plastics and ceramics, animal feed, fertilizer, pigments, recycling as well as for biofuels and pellets. Companies in the foodstuff and pharmaceutical industries also use the systems for typical applications.

The drying technology product portfolio includes complete solutions which take the various drying processes as well as processes for cooling and calcining, and rationally link them together with granulating and screening technologies. The

„MOZER® System“ rotating drum dryer is regarded as a classic industrial drying product; it was developed several decades ago and has been continuously optimized ever since.

**From aluminum oxide to citric acid – we find a way to dry your products.**

**ALLGAIER**  
PROCESS TECHNOLOGY

**MOZER**  
Process Technology Pvt. Ltd.

**MOZER**



## Cooling

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In many applications, the dried or heated product must also be cooled before further processing. For this process, Allgaier offers both cooling drums and fluidized bed coolers as well as combined drying and cooling units.

Allgaier rotary cooling systems are becoming increasingly important, and are used for heat recovery from hot bulk goods. Their value is reflected in the energy savings and reduction in resource consumption.

**This leads to both particularly gentle and even product handling as well as very robust and reliable operation of the system.**

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**MOZER**  
Process Technology Pvt. Ltd.

**MOZER**





## Screening

In industrial preparation and processing of substances of extremely diverse types, there are some important factors to consider. The key factors are the quality of the screening material, the choice of screening method and the technology of the screening machine. Allgaier offers a wide range of modern and high-quality classifier machines with a wide range of variants.

Allgaier machines can operate in the ultrafine powder range with particle sizes of less than one millimeter. Clean and reliable separation of small, heavy, light, dry, dusty, wet and sticky materials can be guaranteed.

Allgaier has the appropriate solution for each task. Tumbler screening machines meet the most exacting quality requirements in ultrafine screening. Flat gyratory screens in the wood processing in-

dustry offer reliable performance. Mogensen sizers are characterized by robustness and a high throughput rate.

**Our high-quality screening machines mean we can guarantee our customers the best quality and highest performance.**

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**MOGENSEN**

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Allgaier Mogensen



## Sorting

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Raw materials and additives are sorted on the basis of color differences, brightness characteristics, item size, composition and purity.

In the sorting process, cameras image more than 2000 particles per second. The computer systems calculate the particle separation within fractions of a second. The sorting utilizes pneumatically activated high-performances valves to make the separation.

The intelligent combination of the latest technology and traditional engineering makes our sorting machines essential tools for processing companies which recover reusable materials with regard to commercial aspects and with the highest level of separation accuracy.

Relatively simple sorting tasks can be solved with less complicated processes. This is where separating tables are utilized. Air flow separates materials with different weights or densities from one another.

**We work efficiently and precisely from economic and ecological perspectives – we share this performance with our customers.**

**MOGENSEN**

**ALMO**  
Allgaier Mogensen

**GOSAG**





## Process Technology

### **ALLGAIER** PROCESS TECHNOLOGY

#### **Allgaier Process Technology GmbH**

Based on experience from approximately 20,000 tests, Allgaier Process Technology GmbH services the individual requirements of the process technology industry. In consultation with the subsidiaries in Germany, Sweden and Spain, the knowledge gained is used as a blueprint for the international alignment of the Allgaier Group in this company division.



### **MOGENSEN**

#### **Mogensen GmbH & Co. KG**

Mogensen GmbH & Co. KG has been part of the Allgaier Group since 1988 and principally produces high-performance screening machines using the multi-deck design according to the sizer principle. Another important area of activity concerns opto-electronic sorting technology for recovering reusable materials from recycling processes. Mogensen GmbH & Co. KG has gained recognition at home and abroad as an innovative provider of individual machines as well as for planning and implementing customer-specific total solutions for complex tasks.





## Process Technology

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### Fredrik Mogensen AB

Fredrik Mogensen AB based in Hjo, Sweden is a pioneer in Screening Technology and has been part of the Allgaier Group since 1995. The invention of the Mogensen sizer in the 1950s was its first major innovation. This machine is regarded as ground-breaking because of its compact design, high performance and ease of maintenance. Today, Fredrik Mogensen supplies patented sizer screens to companies in the mineral, animal feed, chemicals, pharmaceuticals and food industries in Europe and the USA.



Allgaier Mogensen

### Allgaier Mogensen S.A.U.

Allgaier Mogensen S.A.U. (formerly Gosag S.A.) has belonged to the Allgaier Group since 2003. The company is based in Madrid and has a production facility in the northern Spanish town of Avilés. It is an experienced manufacturer of modern screening machines and processing systems.





## Process Technology

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### ALMO PROCESS

#### ALMO Process Technology, Inc.

Based in Cincinnati, Ohio, ALMO Process is the North American sales and service organization for all products of the Process Technology Division; Allgaier Process Technology GmbH, Mogensen GmbH & Co. KG, Fredrik Mogensen AB as well as Allgaier Mogensen S.A.U.

ALMO Process Technology supplies systems and machines for Industrial Washing, Drying, Cooling, Screening and Sorting to clients in the North American region.



### MOZER Process Technology Pvt. Ltd.

#### MOZER Process Technology Pvt. Ltd.

MOZER Process Technology Pvt. Ltd., with its roots in Kolkata, is a Joint Venture of the Allgaier-Group and the company International Combustion (India) Ltd. (ICIL). Due to this merger, the business development of the Allgaier Process Technology division on the Indian market shall be strengthened by the local production of dryer systems in India.





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