Process technology for pharmaceutical processes
From Raw Material to Solid dosage forms

DIN ISO 9001
Assured on the Safe Side.

The production of high-quality pharmaceuticals is your daily challenge. You are responsible for quality, and you expect the same from your partners supplying the necessary process technology to you. Units and plants that meet your requirements perfectly are the key to GMP and safe validation.

Know-how and a common endeavour for perfection.

No chance for impurities: The inspection glass and metal frame have been melted together without clearance or any seal. Just one example of Allgaier's principle to supply you with a pharmaceutical plant with minimum wasted volume and no nest for build-ups.

The underlying assets of Allgaier's process technology are the careful handling of your raw materials, the protection of both the active ingredients and the staff due to a strict closed system and a quality that is reliably reproducible from batch to batch or in a continuous process.

Your high standards are an obligation to us.

The process technology you employ must enable you to meet or surpass the standards set.

The Allgaier concept is based on a close interlock of the individual steps of process technology. As a result, we can give continuous support from the project-stage of a solid plant up to operation, resulting in high product safety. This concept allows you to realise a totally closed plant system. One production unit could, for instance, comprise the following process-technological steps:

- Dust-free handling of the powdery raw material
- Mixing/wet granulation
- Egalisation
- Careful drying in a fluid bed and, if necessary, a secondary granulating stage or coating
- Discharging in a closed system.
Perfection down to Every Detail.

The fluid bed batch plant is the core of many solida processes. The modular design of an Algaier plant offers substantial advantages.

The heart of solida production.

The product discharging from the fluid bed batch plant is controllable and is designed as a closed system. A pneumatic conveying system transports it directly, or by a gravity system into a container or drum. The careful movement of the product through a tangentially arranged air distributa plate is significant for Algaier plants. A smooth heat transfer, without air pockets permit lower inlet temperatures whilst maintaining the temperature of the product. This is extremely important for temperature sensitive products. Energy requirements are reduced which also lowers the cost of manufacture.

Dryers for the manufacture of active ingredients.

In addition to the solid manufacturing plants, Algaier offer safe and continuous production units for active ingredients, e.g. for the transformation of liquids into powders.

The newly developed air distributor plate facilitates a directed flow that guarantees a tangential and defined product motion. Thus even small particles are kept within the fluidizes bed instead of being carried out to the filter as happens in other systems. The flow bases are easily replaceable and therefore can be rapidly adapted to new conditions such as a change of product.

Dispersion dryer for producing e.g. Silymarin

Fluid bed dryer for the production of raw material such as milk powder, lactose and citric acid.

Our services include testing of processes for customers and beyond that, product development and process optimisation.

The stainless steel filter cartidges in the filter housing guarantee the low level of dust particles in the exhaust gas.
Optimal Screening Systems for Pharmaceuticals.

The screening of pharmaceutical additives and active ingredients places special demands on the plant operator and manufacturer. Allgaier has developed screening machines which not only correctly fractionize to precise grain sizes, even for highly demanding screening tasks, but also are safe regarding operation, cleaning, flexibility, and maintenance.

For highly demanding screening tasks of finest materials: The Allgaier tumbler screening machine TSM.

The tumbler screening machine tackles the fractioning of goods within tight grain limits easily under difficult operating conditions as it is adjusted exactly to your requirements. The low-frequency screening motion protects your bulk material and reduces the wear to a minimum.

For protection (scarfing) screening and simple fractioning: the Allgaier vibratory screening machine Vibrall.

This machine gives you good control over protection (scarfing) and control screening as well as simple fractionings. Easy to clean and problem-free maintenance.

No screening problems for ultra-fine meshes: ultrasonics.

Our high-tech ultrasonic system works successfully for fine meshes or goods that are difficult to screen. Retro-fittable into almost all of Allgaier’s screening systems, it can be supplied for special pharmaceutical specifications and, in addition, be used for screening systems cleanable by CIP.
From the Component to the Complete System.

Our knowledge and experience support you in solving tasks involving mechanical process technology. Whether the bulk material is dry, wet, coarse or fine, whether you want to sieve, size, dry, granulate, instantise or coat it, we design each single apparatus exactly to your requirements. We develop, plan and build entire plants and complete systems. Whether plants are for continuous or batch production, we realise the best solution for your needs, both economically and technologically.

In Allgaier plants, the production and technical areas are separated from each other to guarantee total cleanliness and safety of the pharmaceutical product. All drive units, utility feed-ins and peripheral units are installed in the technical area, safely separated from the production area. Thus contamination through the technical units is ruled out. This sharp division not only increases product safety but also reduces work and costs of operation, cleaning and maintenance.
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