



Vacuum drying systems

IMPROVING YOUR PERFORMANCE

Improving your Performance

Meier Prozesstechnik GmbH

With more than 40 years of international experience in systems engineering as a partner in diverse industries, we can offer the optimal technology for drying any parts. To remove moisture from products rapidly without causing damage, even at low temperatures and from deep pores, we draw on our specialisation: vacuum drying.

Vacuum drying systems

Because every application has different drying requirements, we always provide you with bespoke vacuum dryer designs for your individual process. Our dryers can be used on new production lines, integrated into existing lines or operated as standalone solutions with their own PLCs. We have built up a range of standardised components and solutions based on our previously realised vacuum drying systems, allowing us to offer attractive prices.



Vacuum drying principle

In vacuum drying the product to be dried is subjected to an underpressure (vacuum) which reduces the boiling point and thus also leads to evaporation of water at low temperatures. As the vacuum reaches every position, all the moisture present in the product is evaporated and homogeneous drying occurs within a very short time period. The required heat energy is usually contributed from the upstream process for the material to be dried. If this energy is not sufficient, energy can additionally be supplied to the parts from an external source.

Application areas

- Automotive and railway industries
- Electrical industry
- Research and development
- Glass and ceramics industry
- Aerospace industry
- Mechanical engineering
- Medical technology
- Metalworking industry
- Surface technology



Possible versions and components of a Meier vacuum dryer:

We offer top-loading, front-loading and special systems in versions with round or rectangular cross sections.

- Heating systems for alternating drying processes
- Central vacuum pumps stations
- Conveyance systems
- Visualisation and reporting
- Explosion protection (Atex) with in-house expertise
- Vacuum-tight penetrations for rotation of product racks
- Air guidance spoiler for uniform heat treatment
- Cleanroom technology
- Preparation for exhaust air conveyance
- System evaluation, relocation, retrofit

Technology centre

Our pilot plants represent the link between your idea, conceptual design and realisation. Trials with test models as well as with production-sized parts can be carried out in our drying systems. Together, we develop the optimal product solution for you.



Your benefits

- Reduction in energy / operating costs
- Short cycle / drying times
- Non-damaging material drying
- Geometrically independent drying
- Maximum drying efficiency and quality
- Prevention of corrosion problems
- Low maintenance requirements

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