

# DRYING ROOM TECHNOLOGY

## Competence Center



Matthews Engineering is a global leader in innovative technologies for the power and process industries. With over 70 years of experience, we develop pioneering solutions - from calendaring and processing systems to turnkey production machinery and plants. Our in-house Competence Center combine laboratory and full-scale production, providing the basis for numerous innovations. This unique infrastructure enables us to develop advanced technologies and implement them efficiently.

A particular highlight is our state-of-the-art drying rooms at the Heek site. Equipped with precise humidity and temperature control and the latest clean room technology, they set new standards for the processing of moisture-sensitive materials. This combination enables us to meet even the most demanding requirements of our customers.

By combining innovation and precision, we create future-oriented opportunities for successful cooperation in research, production and quality assurance.





## TESTING AND APPLICATIONS

The drying rooms offer our customers a wide range of testing and application options, particularly for processing materials that are sensitive to moisture and temperature.

- **Materials testing and quality assurance** for hygroscopic materials
- **Tests in the energy sector** (battery and HFC technology)
- Precision control for **pharmaceutical and biotechnology applications**
- Ideal environments for highly sensitive components in **optical components and lens technologies**
- **Composite and adhesive testing**



## TECHNICAL DETAILS

- **Precise humidity control:** Configurable humidity levels down to less than 1% RH (dew point  $-40^{\circ}\text{C}$ ) - ideal for moisture sensitive materials.
- **Stable temperature control:** Constant between  $10^{\circ}\text{C}$  and  $30^{\circ}\text{C}$ .
- **Clean room standards:** HEPA filtered air circulation ensures particle-free air and a clean room environment.

## INDUSTRIES

- Battery and energy storage industry
- Automotive and e-mobility
- Aerospace industry
- Electronics and semiconductor industry
- Pharmaceutical and biotech industry
- Optics and precision engineering



## SUSTAINABILITY & SAFETY

- We meet the highest environmental and safety standards for responsible and sustainable production.
- We ensure maximum worker and product safety through continuous monitoring of operating conditions.

## BENEFITS

- **Process optimization:** Maximum stability and precision reduce errors and increase efficiency.
- **Flexibility:** Customized solutions that cover both short-term and long-term processes.
- **Cost savings:** Reduced material loss due to ideal process conditions.
- **CO2 reduction:** Reducing the carbon footprint by designing processes that conserve resources.

## CONTACT

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