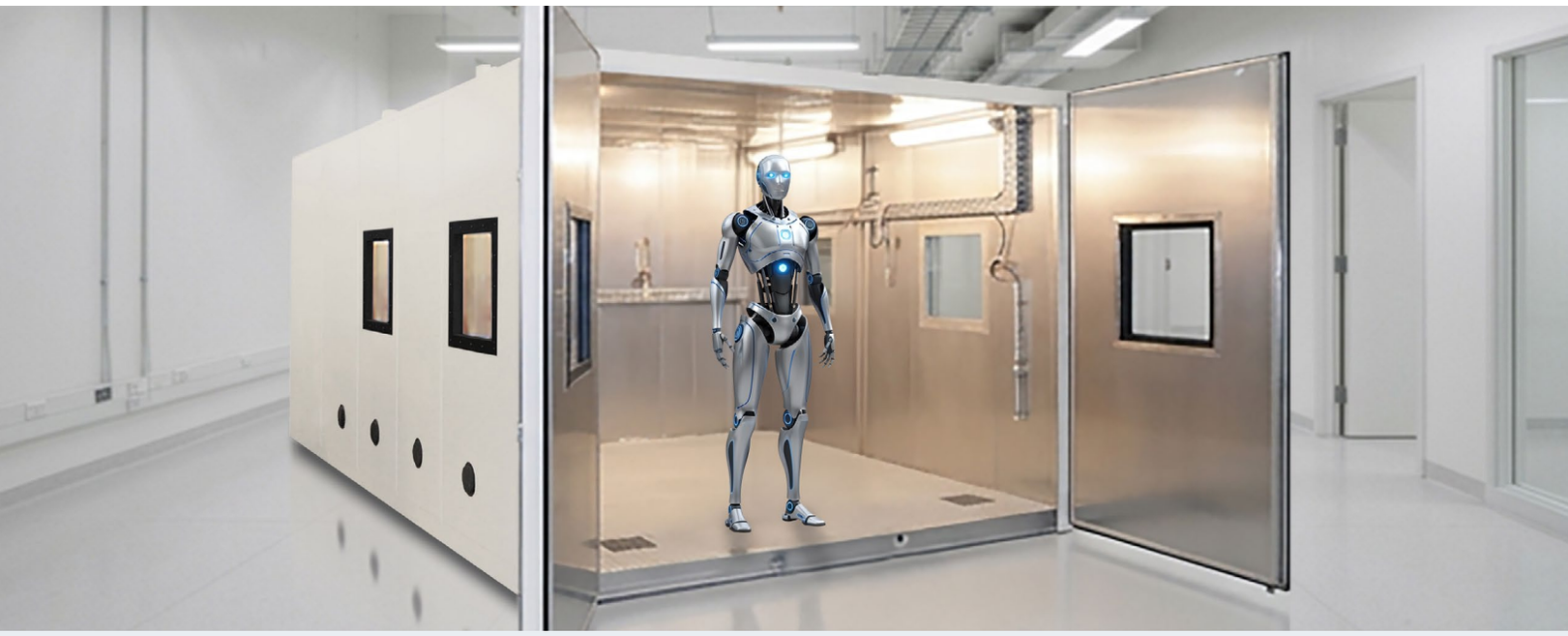
weisstechnik®
a schunk company

Humanoid Robot Testing Environmental Chambers



Supporting the Future of Humanoid Robotics

As humanoid robotics continues to advance, environmental testing plays a critical role in validating performance, reliability, and durability. From research and development through product validation, manufacturers need environmental simulation capabilities that accurately reproduce real-world operating conditions.

Designed for Full-Scale Robotic Systems

Unlike traditional test applications, humanoid robots require environmental chambers capable of accommodating large, fully assembled systems while maintaining precise temperature and humidity control. Environmental testing helps engineers validate the performance of integrated robotic systems, including mobility components, vision systems, sensors, batteries, and control electronics under demanding operating conditions.

Custom Environmental Testing Solutions

Weiss Technik engineers walk-in environmental chambers optimized for humanoid robot testing and advanced robotics applications. Available in panelized or welded-panel designs, these solutions provide the workspace and environmental performance required to support full-scale humanoid robot development and validation. With precise temperature and humidity control, manufacturers can confidently evaluate system performance across a wide range of operating conditions before deployment.

Why Weiss Technik?

Our custom-engineered solutions can be tailored to specific testing requirements, including chamber size, environmental performance, and access configurations, helping manufacturers create reliable, repeatable environments for humanoid robot testing, product development, and validation.sensors, batteries, and control electronics under demanding operating conditions.

Features & Capabilities

- Walk-in chamber designs for full-scale humanoid robots
- Panelized or welded-panel construction options
- Expanded humidity capabilities available with welded-panel designs
- Temperature range: -65°C to +85°C
- Humidity control up to 95% RH
- Dual steam humidity system
- Heated viewing windows and instrumentation access ports
- Custom solutions for humanoid robot testing and validation