



**EFFICIENT LOGISTICS
FOR HIGH AVAILABILITY**

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PERFECTION AUTOMATED.



INITIAL SITUATION

The measuring instrument manufacturer Testo is a global leader in the field of portable and stationary measuring solutions. For the subsidiary Testo Industrial Services, the construction of the new Calibration Facility is the largest investment in the future to date and a consequence of its continued growth. Over the past 20 years, the company has developed into Germany's largest provider of calibration services.

The new building will be used to efficiently align proven processes in modern premises while further expanding the high quality standards.

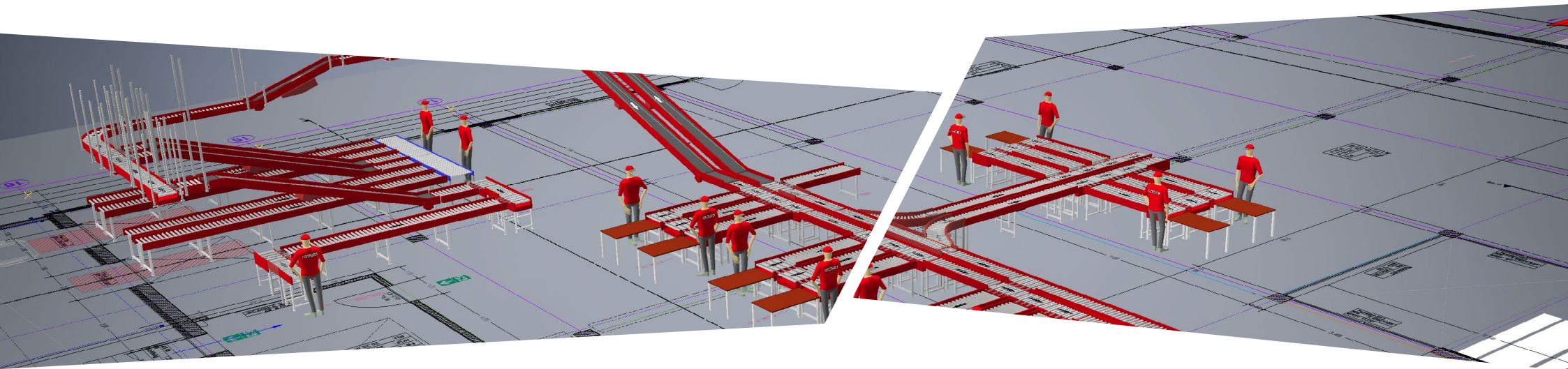
The logistics system is to have a high storage capacity in a limited space and ensure minimum distances for employees. State-of-the-art storage and transport technology is to be discreetly integrated into the laboratory environment. Scalability and expandability for future growth will be considered from the beginning.



Testo Industrial Services

Kirchzarten, Germany

New construction of shuttle warehouse for "Calibration Factory"



SOLUTION

The customers' measuring instruments to be calibrated are gently stored and transported in standardized containers.

The in-house material movements of the containers are supported by automatic logistics systems.

The heart of the plant is a shuttle system with high storage density, where the customer equipment to be calibrated is buffered.

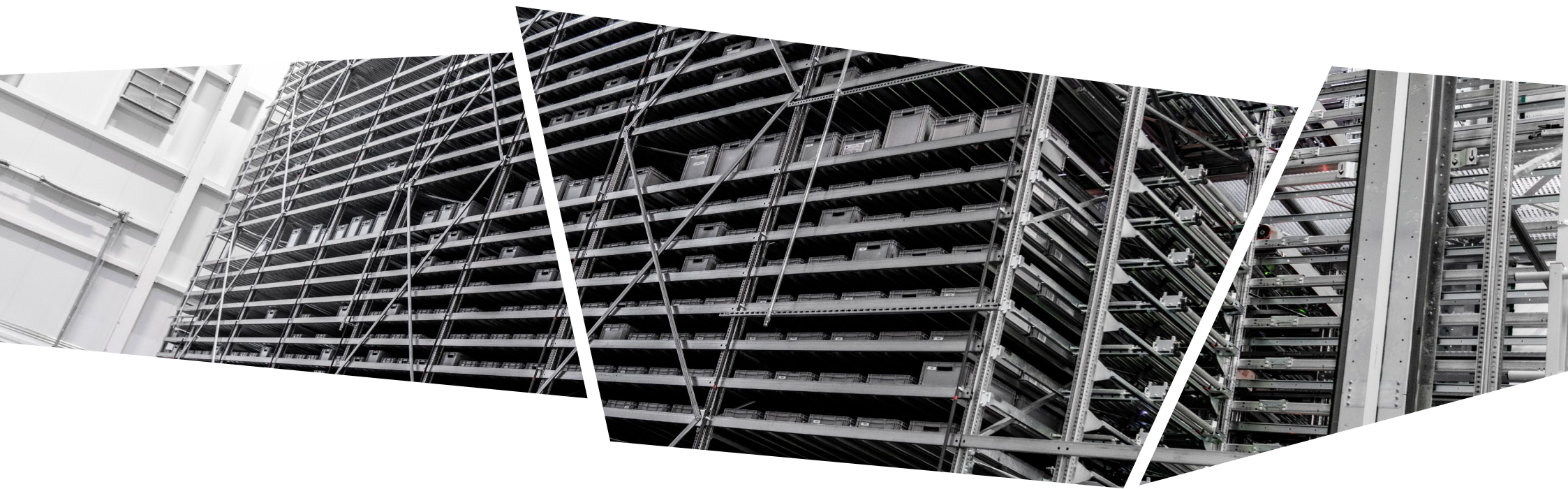
The conveyor system, which is over 300m long, connects the various functional areas and laboratories with the shuttle warehouse.

The Warehouse Management System UniWare supports the following processes:

- Incoming goods,
- goods issue,
- order processing,
- laboratory supply and tugger train connection,
- tour formation and
- shipping

Traceability and short access times optimize transport processes.





TECHNOLOGY AND KEY FIGURES

- UniWare warehouse management system (WMS) with integrated modules for material flow control system and plant visualization
- Host interface with SAP ERP
- Single-aisle shuttle system with 16 shuttle vehicles on 30 levels
- 7,000 storage locations
- 3-deep storage
- 2 bin lifters in the pre-zone
- 1 vehicle lifter for level change
- Container conveyor system discreetly integrated into laboratory environment
- 10 workstations with conveyor connection



Unitechnik *PERFECTION AUTOMATED.*

For two generations **Unitechnik** has been a successful owner-managed family enterprise. For five decades we have been counted among the leading providers of industrial automation and information technology. We plan and realize customized systems for in-house logistics and production whereby we are active throughout the world as an one-stop supplier.



www.unitechnik.com

Unitechnik Systems GmbH Fritz-Kotz-Straße 14, 51674 Wiehl-Bomig, Germany



+49 2261 987-0



logistics@unitechnik.com