

TwinTrain-Workshop



TwinTrain-Workshop is a universal testing platform designed for electrical and electronic railway systems. By using generic measurement and stimulation electronics combined with application-specific adaptation cables, the platform allows maintenance teams to test a wide range of devices using a single system.

TwinTrain-Workshop

Product Highlights:

- One test system for multiple railway devices and subsystems
- Supports workshop, depot, and onboard testing activities
- Flexible adaptation-cable architecture for new DUTs
- Enables diagnostics, troubleshooting, and quality assurance
- Future-ready platform designed for evolving fleet requirements
- Automated testing process and generation of digital test reports

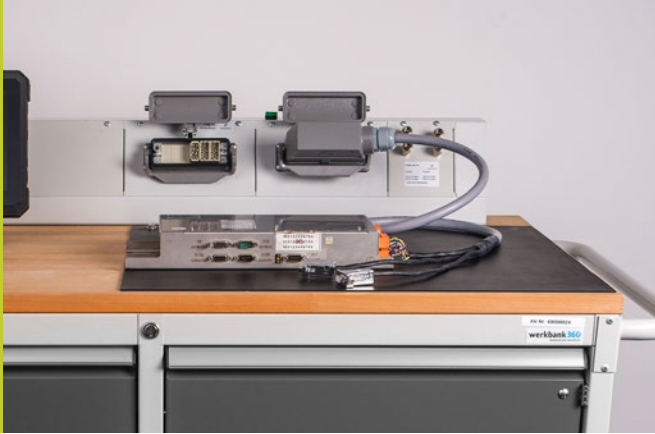
→ One Platform for Testing Electrical and Electronic Railway Components

Whether performing routine maintenance, commissioning, diagnostics, quality assurance, or troubleshooting, TwinTrain-Workshop provides a standardized testing environment that improves consistency while reducing the need for dedicated equipment. The result is a scalable and sustainable solution capable of adapting to changing technologies and fleet requirements over time.



→ TwinTrain Runs on UTMS

Avera Powered by Sphera's UTMS (Universal Test Management System) is a centralized platform that enables organizations to **define, release, execute,** and prove testing activities with complete traceability. By linking test requirements, procedures, configurations, execution records, and results in a controlled workflow, UTMS delivers **auditable test evidence and repeatable processes**. Its hardware-independent architecture preserves test knowledge across generations of technology, supports long-term maintainability, and allows organizations to modernize equipment without losing valuable test assets, ensuring sustainable test capability for decades.



→ Flexible Testing for Modern Railway Fleets

- Supports testing directly on vehicles or on standalone equipment
- Adapts to new devices through simple cable adaptations
- Enables quality assurance and functional verification
- Supports routine maintenance and advanced diagnostics
- Creates a unified testing environment across the organization

Capability

Function

Diagnostics	Fault Identification
Troubleshooting	Root Cause Analysis
Quality Assurance	Functional Verification
Commissioning	System Readiness Validation
Functional Testing	Component Validation
End-to-End Testing	Integration with Dedicated Test Solutions
Multi-DUT Support	Multiple Components via One Test Platform



Key Benefits

- Test multiple component types using one platform
- Reduce investment in dedicated test equipment
- Accelerate deployment of new applications
- Improve maintenance consistency and quality including digital test reports
- Simplify diagnostics and fault isolation
- Support long-term workshop modernization strategies

TwinTrain-Workshop



→ Technical Highlights

- Generic measurement and stimulation electronics
- Adaptation-cable architecture
- Onboard and workshop deployment
- End-to-end testing integration
- Scalable platform for evolving requirements
- Long-term service and support option

Product Specifications

Product Type	Universal Rail Vehicle Test System
Primary Applications	Maintenance & Commissioning
Deployment	Workshop, Depot, Onboard
DUT Support	Electrical & Electronic Components
Test Environment	Installed or Standalone Equipment
Architecture	Modular & Scalable
Expansion Method	Adaptation Cables

→ The Universal Test Solution for Rail Vehicles

Simplify railway maintenance and improve workshop efficiency with TwinTrain-Workshop, the flexible multi-tool that enables consistent testing, diagnostics, and quality assurance across a wide range of railway systems.