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# Electrical Interconnect Test Solutions & Integration Test Benches

For more than 30 years, Nexeya has been delivering electrical interconnect test solutions and integration test benches, helping our customers deliver safety, efficiency and speed to their design, manufacturing and service operations.

Today's Advanced Electrical Systems Require Innovative Test Solutions & Features

**Electrical interconnect test solutions:** the MPT product line offers enhanced modular hardware and software, industry leading test speeds, virtually unlimited integration and expansion options and a complete suite of operator guidance tools to make testing even easier and more automated than ever before.

Test Optimisation and Time Saving Features

### Test Re-engage

Saves time by enabling the operator to pause the test and troubleshoot an error, re-engaging the test at the point of repair and eliminating the need to repeat the already verified test sequences.

### Mass Hi-Pot

Provides complete test coverage in a fraction of the time required by conventional linear test methods.



## Integration Test Benches

- Model / software / hardware in the loop test systems
- Metro / train line integration and validation
- ATC equipment test and validation
- Test automation
- COTS & custom electronics development
- System validation and verification
- Modelling and simulation
- Interoperability testing
- Real-time testing



### Measure & Energise

The M&E feature is available for all test points reducing overall test times.

### Activation & Energisation

Enables the energisation of functions during the test sequence, saving time and enhancing troubleshooting efforts.

### SuperTrace

Colour-coded connectivity mapping optimising troubleshooting.

### Scan Testing

High-frequency test intervals ideal for high-stress, vibration and thermal cycle testing.



## Case Study: Nexeya Applies Own Aviation Test Platform to the Rail Market

For more than 15 years, Nexeya has conducted testing of aircraft backplanes and power distribution cabinets using an innovative methodology that is embedded into several offerings. Military and commercial aircraft are complex and require extensive safety and performance verification and validation, both during the production process and at set maintenance intervals. An aviation OEM approached Nexeya with a challenge: 8 hours of setup time was required to run a 15-minute test.

**Nexeya delivered a test system which reduced the setup time by 55%.**

Since that initial development, Nexeya has continued to refine the methodology and reduced the time from the original 8 hours to less than 10 minutes.

- Increased test coverage and test reliability
- Reduced testing costs
- Increased manpower utilisation
- Payback of 14 months

Nexeya witnessed a rail application where the rolling stock OEM was experiencing similar challenges to our aviation partner: **a large number of test points accompanied with long setup times and a high probability**

**of troubleshooting and retests due to the number of test points and complexity of the test configuration.**

In addition, operators found test setup cumbersome and stressful due to the large number of test cables, cable routing and cable weights. With some modification to our aviation test solution, Nexeya developed a similar offering for our rail partner. Today, they enjoy a much shorter setup time which benefits them economically but, more importantly, provides a much safer environment for operators.

**Nexeya's ability to take our experiences from one industry and apply the benefits to other markets is one of our key value propositions.**



# Testimonials

## Bombardier Transportation:

*“Nexeya Canada, Inc. has provided quality wire test systems to Bombardier Transportation Americas for over 20 years, and in that time, their products and solutions have proven to be exceptionally reliable, robust, and cost effective. In compliment of their great products, Nexeya Canada, Inc. has provided outstanding service and customer support.”*

*“Overall, Nexeya Canada, Inc. has had a close, and mutually beneficial, relationship with Bombardier that is expected to continue well into the future.”*

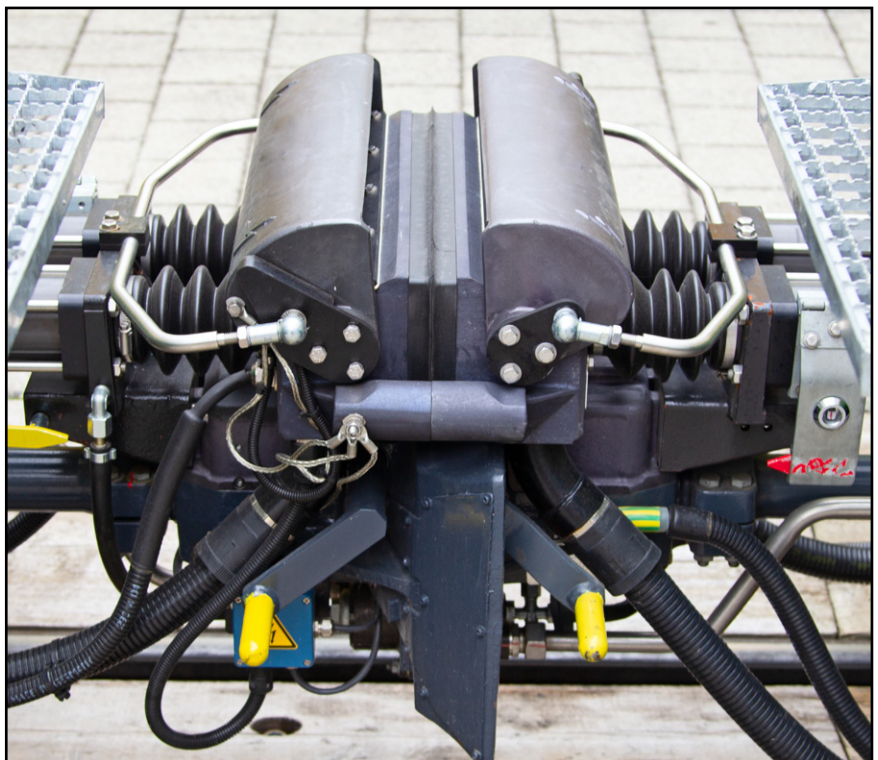


**BOMBARDIER**

## Electrical Engineering | MARTA Metropolitan Atlanta Rapid Transit Authority:

*“With the challenge of establishing a test area dedicated to our electric couplers, we did not want to use the current methodologies, we approached Nexeya for a novel solution. Nexeya presented a solution based on their proven EZX-1510 product line.”*

*“The team was incredibly easy to work with, assisting us with the system selection and modification. All adapter requirements were based on a standard offering which provided custom configurations at low prices. We are very impressed with the speed and ease of use of the equipment, worked wonderfully out of the box.”*



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A green high-speed train is shown in motion, moving from left to right across the frame. The train is sleek and aerodynamic, with a large front window and a prominent nose. The background is blurred, suggesting speed. A large green diagonal shape is overlaid on the right side of the image, containing text.

**Electrical Interconnect Test Solutions  
Integration Test Benches**