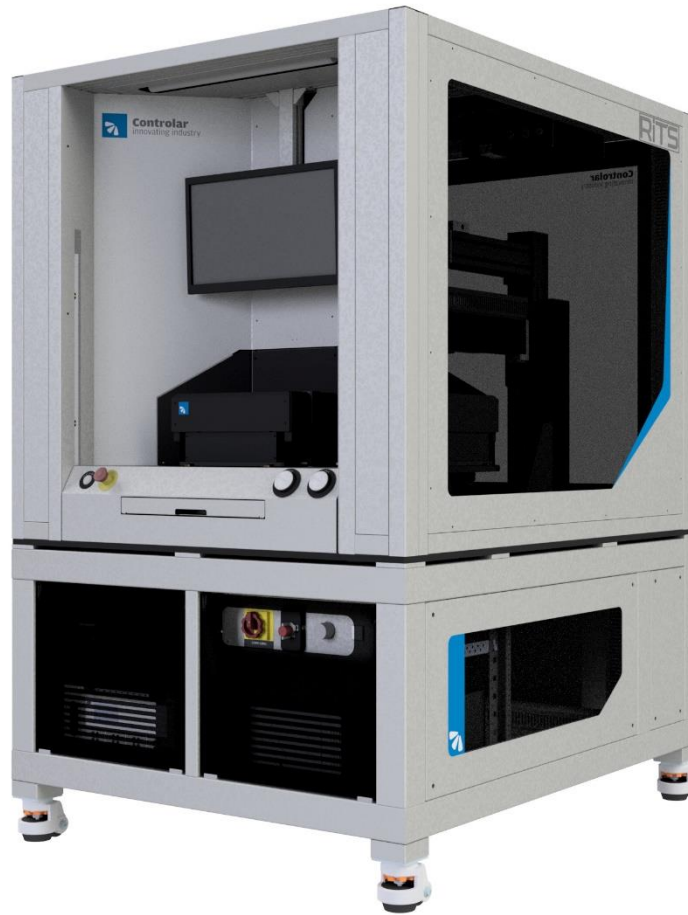


RiTS Test Station

Rotational Simultaneous Test System



Efficiency meets excellence with our **RiTS - Rotational Simultaneous Test System** featuring a dynamic rotative plate with 4 positions. This machine ensures thorough testing of critical automotive components at the final stage of production to ensure their correct functionality.

KEY FEATURES

- **Flexibility:** Highly flexible and modular, adapts to various testing needs
- **Multifunctional:** Capable of conducting multiple tests simultaneously
- **Optimization:** Enhance production efficiency with reduced cycle times
- **Reliability:** Delivering cost-efficient, reliable measurements

HOW RiTS CAN IMPROVE THE MANUFACTURING PROCESS

Designed to meet the exact demands of the automotive industry, this semi-automatic **End-of-Line Test Machine** boasts four specific test positions, offering extensive versatility for a wide range of tests. From luminance testing and visual product inspections (eg. display and telltales), to haptics, sound testing and subjective cosmetic validations (including scratch and

structural defect assessments), our **Rotational Simultaneous Test System** ensures the correct functionality of the DUTs.

Moreover, **RiTS** may perform power, communication and electrical tests simultaneously in all positions. This feat is made possible by using a slip ring, an electromechanical device that transmits power and electrical signals from stationary to rotating components, ensuring uninterrupted connectivity even during rotation.

RiTS level of versatility is the key to reducing operating times, improving workflow, and maximizing machine availability.

THE MACHINE CONFIGURATION

This comprehensive test solution comprises:

- Loading: Semi-automatic or automatic
- Rotative Plate: Featuring four dynamic test positions
- Slip ring: Enabling continuous electrical connectivity during rotation
- User-Friendly Software: Equipped with a customizable UGUI for easy operation
- Interchangeable fixtures: Enabling the same machine to test various products simply by changing the fixtures
- Configurable modules: camera, haptic test points, sound analyzers, etc.

Additionally, **RiTS** may include modules such as a switch box that facilitates circuit routing as needed. It has the capability to accommodate various types of measurement equipment such as multimeters, programmable power supplies, RF generators, or analyzers.

It may also support multiple interface types, including BroadR-Reach, CAN, LIN, RF, USB, and more.

UNIVERSAL APPLICABILITY

While initially developed to meet the stringent standards of the automotive industry, our **Rotational Simultaneous Test System** transitions into other sectors, including consumer and industrial electronics, offering customization options for various product types. It's a testing solution designed for the future, adaptable to the evolving needs of your DUT (Device Under Test).

RiTS allows for extensive customization by the customer and provides highly satisfactory cycle time guarantees, as it enables multiple test positions within a single machine.

A live demonstration of **RiTS** will be exhibited at Controlar's stand (Hall A1 – 339) in Productronica 2023, between the 14th and 17th of November.

ABOUT CONTROLAR

Founded in 1995, Controlar Innovating Industry is a Portuguese company that specializes in Industrial Automation and Test Systems with focus on the automotive industry.

Supported by skills such as hardware and software development, the company services include the design, development, and integration of automated test systems for the validation and verification of electronic components and systems.

Controlar also offers solutions for data acquisition and analysis, production line automation, and quality control, holding a significant portfolio of projects and services.

Among its references are multinational companies and its partnerships include leading manufacturers around the world.

The company has a team of highly skilled engineers and technicians who are dedicated to delivering cutting-edge technology and exceptional customer service.

With more than 390 employees, the Controlar Group operates through a network of global production units and companies (Portugal, Spain, Mexico and Malaysia), regional offices and partners (Germany and India). All working together with combined synergies to meet customers' needs and expectations.