



With +10 years of experience in developing functional tests.

We can test and guarantee the functionality of your product using electrical testing and real-life simulations integrated into our solutions.

We cover solutions for compact, standard, or custom testing: stable, fast, and easy to use.



dual functional test rack

vectralis has a standard Test platform, developed for the application of functional tests.

vibox^{2.0}

It is a modular base that allows to accelerates the development and accelerate execution of functional and communication tests, signal measurements, LED analysis, programming, leak testers and many other capabilities.



RF testers



functional testers

Working with Ingun Fixtures we can develop PCBA or Small final product tests, integrating and implementing a complete solution in production in a very short time.



leak testers

Our stations can work in In&Off-line processes and adapt to all visual standards with the required technological complexity, whether at PCBA (FCT) or final product (EOL) level.

speed|box

A pre-engineered, high-tech part, of simple conception and minimum maintenance: a single press system, focused on functional testing with the option to add HW extension, such as on-board programming and lighting test analysis. It is a modular base with fixture concepts and standard cassettes, which accelerates the implementation of different variants with similar characteristics, with production implementation in a very short time and lower cost.



We are certified and connected to specialized technology providers and worldwide references such as:

main partner suppliers

- Cincinnati - leak tester instrument
- FEASA - LED test analysis
- Ingun - Fixtures and accessories
- Keyence and Cognex Vision Pro - Vision systems
- Keysight - Measurement instruments
- Keyence and Panasonic - Laser marker
- NI - Measurement instruments, PXI technology
- NI - Software platforms (CVI, TestStand, LabView)
- SMC and FESTO - Pneumatic systems
- SMH (Flashrunner & Algocraft) - Hi-Runner programmers
- TURK and SIEMENS - Control systems



We work from initial consultancy to implementation and start-up on site. We focus on 3 industry segments and their respective electronic products:



automotive

Cluster, ECU, TCU, Lighting, LCDs, ADAS, Harness, Sensors, PCBAs, Electronic accessories



industrial

Metering, Lighting, PCBAs, Energy management, Power distribution, Sensors, HVAC control



consumer

Sensor, HVAC Control, Lighting, Audio, Video, Surveillance, Camara, Home appliances, Smart door locks, PCBAs

specialty testing

- **RF and GPS test** (WiFi, BLT and GPS test)
- **Lighting** (LED, photometry, current and intensity tests)
- **Vision systems** (screen validation, cluster or other positioning needs up to 0.002". Presence or absence part, quality validation)
- **Sound tests** (buzzers or microphones)
- **Onboard programming** (integration of multiple units with standalone or high-speed programmers)
- **Hall sensor tests** (electromagnets or interaction with physical magnets with actuators or servomotors)
- **Hi-Pot test current** (to assess the reliability of your equipment about, be able to ensure the Leakage Current and Insulation Resistance)
- **Position and movement tests** (switches, buttons, mechanical parts, presence or absence tests)
- **Communication tests** (CAN, LIN, UART, I2C and many other **protocols**)

software features

- **National instruments programming interfaces** (LabWindows/CVI, TestStand, LabView)
- **User-level controls interface** (operator, technicians and developers)
- **Customized user interface** (UPH, yield, pass/fail)
- **Maintenance mode**
- **Different communication protocols integration** (CAN, LIN, I2C, Others)
- **FEA - Finite Element Analysis**
- **Strain Gauge Analysis Service**
- **Advice / Trainee on the complete solution**

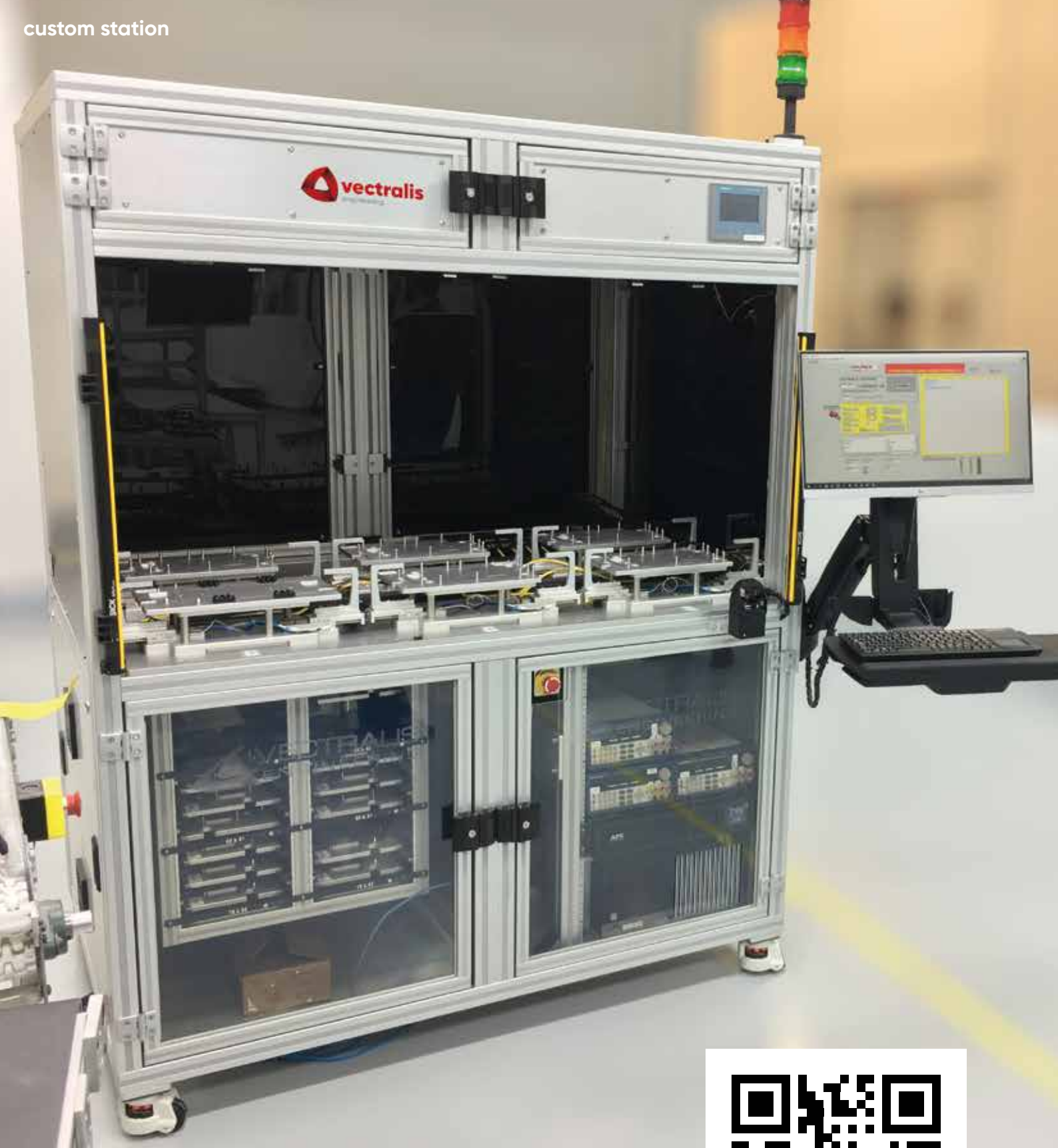


hardware features

- **Interaction with the UUT** (pneumatic, electric)
- **Board markers**
- **Automatic scanners**
- **Self-openers system**
- **Floating connectors and positional references**
- **Rack 19" Standard table type**
- **Rack 19" Customizable tower type**
- **Own and Ingun fixtures for functional tests**
- **Dual well and Single Well fixtures**
- **Electromagnets**
- **Laser marker**
- **Motor integration** (DC, Servomotor, Stepmotor)
- **Pneumatics in general**
- **Electrical linear guides**
- **Rack lifters**
- **RF enclosure Box Fixtures**
- **Instruments according to requirements**



custom station



We have an
optimal solution
for your needs.

Do you require a
quote? Share us
your test
specification.

**testing
the
future
now**



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