Innovation, Quality and **Passion for Engineering.**

WE DRIVE INDUSTRY INNOVATION,

built to your specs, priced to your plan.

Over 30 years, Controlar has worked side-by-side with customers to develop advanced automation and test systems that meet the complex realities of modern electronics manufacturing.

We deliver tailored solutions that support the latest technologies in **automotive**, **industrial electronics**, **consumer technology**, **aerospace & defense**, among others.

Whether you're validating a **low-volume prototype or scaling a complex production line**, our approach matches your test strategy, environment, and budget adapting as your requirements change.

Understanding your process and delivering exactly what you require. No more, no less.

Discover a World of Test Possibilities

Our global team of skilled engineers and technicians brings multi-disciplinary know-how to each challenge to design smarter test flows, reduce downtime, and improve reliability across everything we do, from **PCB validation to End-of-Line quality control**.

With deep-rooted expertise in both PCB and EoL testing, we partner with customers to co-develop reliable, scalable systems that align with their operational goals.
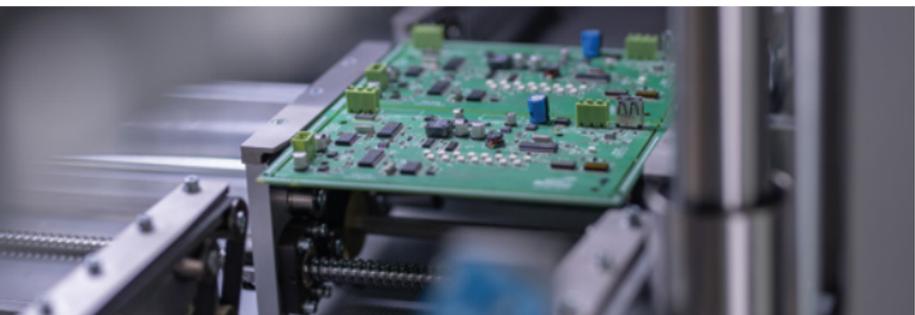
PCB Testing (in-line and off-line)
/ In-Circuit Test (ICT)
/ Boundary Scan (JTAG)
/ In-System Programming (ISP) / Flash
/ Functional Test (FCT)

Product Testing
/ Functional Testing
/ Flash Programming
/ Display & Camera Calibration
/ Automated Optical Inspection (AOI)
/ Manufacturing Defect Analysis (MDA)
/ Sensor Calibration & Actuation Testing

Quality Control
/ Burn-in and Run-in
/ Vibration Testing
/ Leak Testing
/ Troubleshooting
/ Pressure and Impulse Testing
/ Product Inspection and Label Application

Controlar
test systems

Engineering Expertise Driving Your Automation

We work closely with your team to ensure every project is not only technically robust but fully aligned with your workflow, specific requirements and production goals - **from simple applications to highly automated integrations.**

From concept design and planning to execution, installation, and technical assistance, our commitment goes beyond delivering a project - it's about solving your test & automation challenges.

/ Development of **machines** and **production lines.**

/ **Automation** and modernization of machines and processes.

/ **HMI** (Human Machine Interface) and **PLC** (Programmable Logic Controller) programming.

/ Integration and programming **robots** for assembly, quality control and palletization.

/ **Vision** systems implementation for quality control.

/ **Traceability** application development or based on customers' database management and **MES** (Manufacturing Execution System).

/ Process monitoring solutions using **SCADA** systems (Supervisory Control and Data Acquisition).

/ Software development for production control and efficiency monitoring – **OEE** (Overall Equipment Effectiveness).

/ Laser marking
/ Screwing
/ Metal and plastic welding
/ Haptic testing
/ Dispensing machines
/ Cleaning stations
/ Vision systems

/ Robotic handling
/ Aging
/ Leak testing
/ Ultrasonic welding
/ Packaging
/ Transport & conveyor belts

Controlar
automation systems

Empowering Aerospace and Defense

All our expertise in testing and automation applied to the aerospace and defense industry to **develop validation and certification systems for electronic, electrical and electromechanical components**.

Aerospace capabilities: from RF and satellite systems to end-to-end deployment

Aerospace RF and Satellite Systems

/ RF electronics for aerospace and satellite systems.
/ Earth Observation (EO) software distribution.
/ Antenna solutions and reception enhancements.
/ R&D with ESA, H2020, and similar programs.
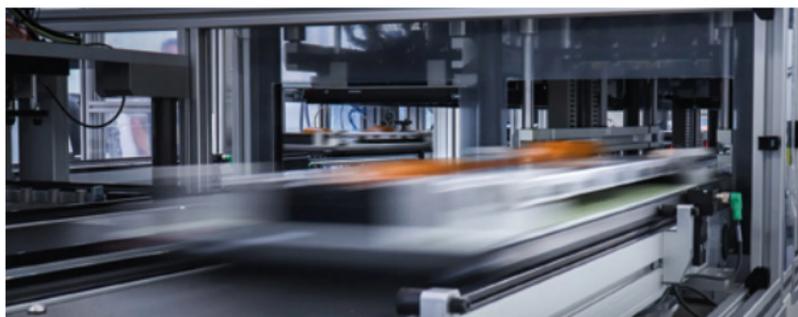/ Aeronautical bus testing expertise.

End-to-End Aerospace System Development and Support

/ Software test benches and trainer integration.
/ UAV Ground Control Stations.
/ Mechanical & electrical design, subsystem assembly, harness manufacturing.
/ Testing, certification, and project management.
/ Global installation and ongoing support.

Controlar
aerospace & defense

Meet Our Partners and the Products We Integrate

Through partnerships with leading global manufacturers and key market players, Controlar **represents, distributes, and integrates first-rate products** for automation and test systems applications.

Representation and Distribution

AIT
Solutions for Avionics

Alfa Test
Test Inspection Automation

Checksum
MDA and FCT Test Systems

ECT- A Cohu Company
High Performance Test Pins

Feasa
LED Analysers

Goepel Electronic
Test Instrumentation

Huntron
Flexible Diagnostic Solutions

Mac-Panel
Interconnection Solutions

Marvin Test Solutions
Instrumentation for ATEs
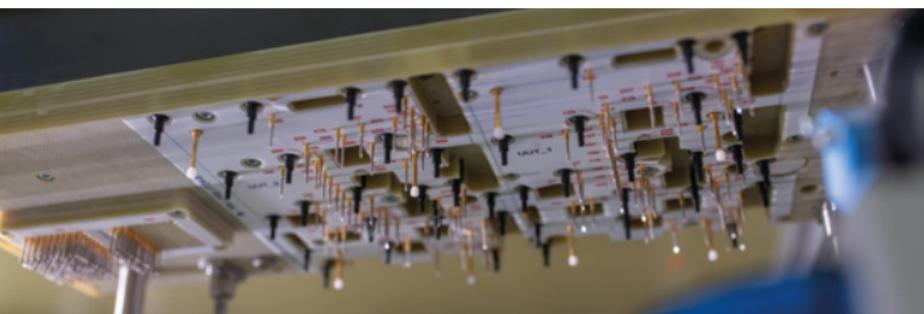
MSTECH Europe
Solutions for Electronics

SMH Technologies
Flash Programming Solutions

Weetech
Wiring Test Equipment

Partners

Customized Turnkey Systems:
When Standard Is Not Enough

Working closely with your team, we ensure every system is technically robust and fully aligned with your workflow and production goals – delivering confidence with every unit tested.

You bring the challenge. We deliver the solution.

Tell us what you need to test, and our experienced engineering team will work with you to design a tailored solution that fits your product, your process, and your goals.

From initial concept to final deployment, we support you every step of the way.

Achievements

Global Affiliations

Certifications

Controlar Portugal

Controlar Spain (EIIT - A Controlar company)

Controlar Malaysia

Controlar North America
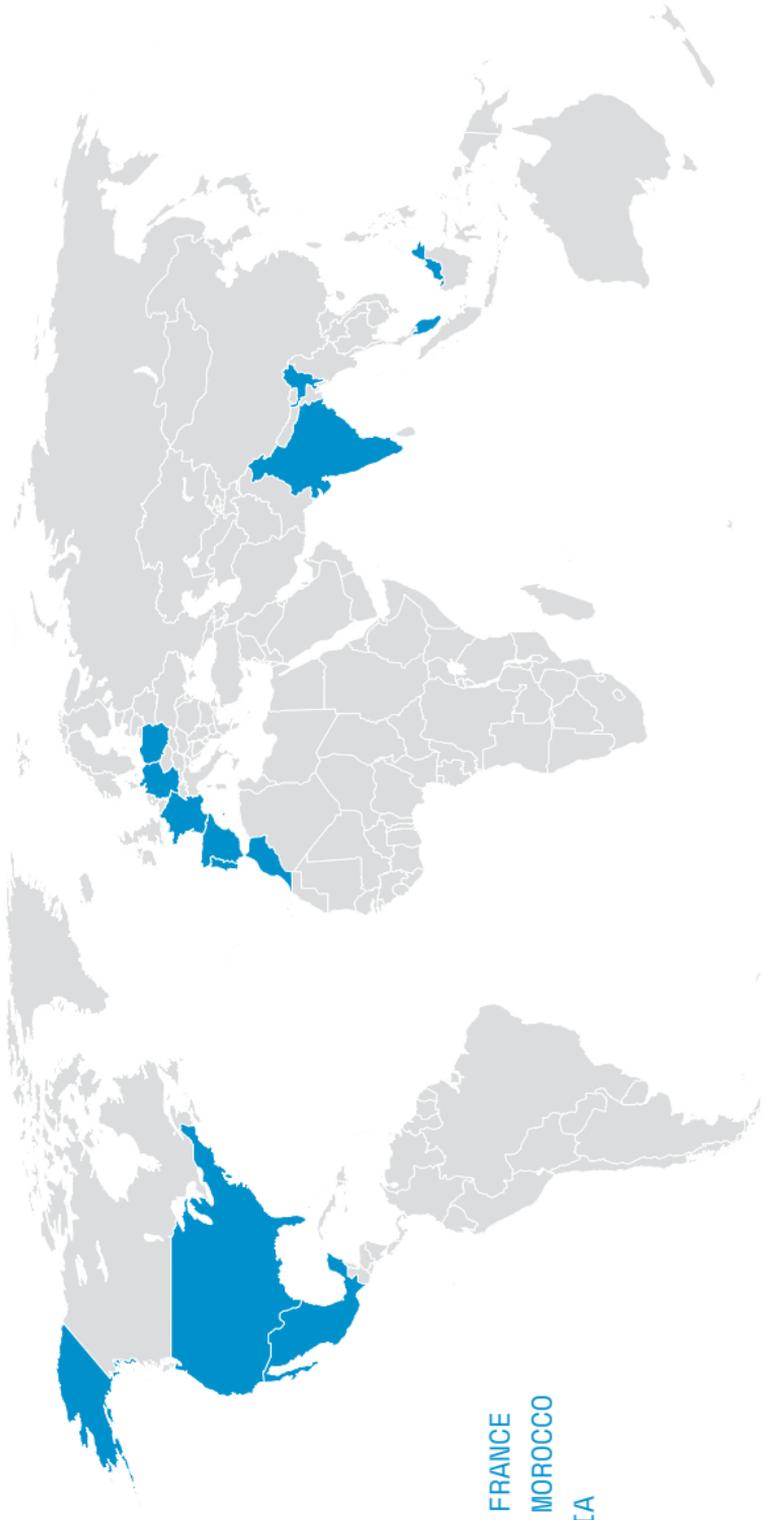

Controlar
innovating industry

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Our Locations

PORTUGAL • SPAIN • FRANCE
GERMANY • POLAND • MOROCCO
MEXICO • USA • INDIA
MALAYSIA

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