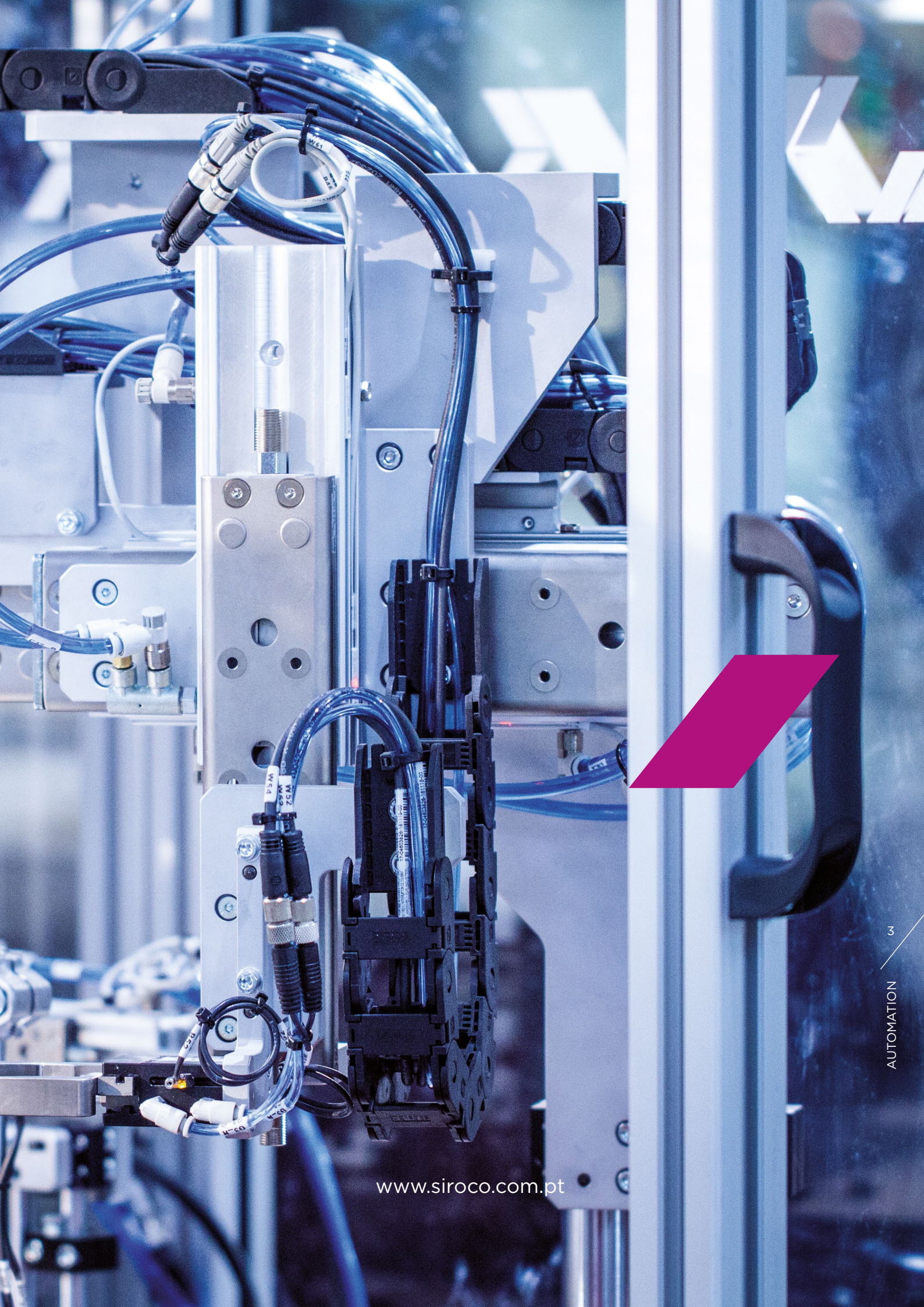


WHERE THE WORLD MEETS INNOVATION



siroco 





www.siroco.com.pt

WHERE THE WORLD MEETS INNOVATION

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4

AUTOMATION



*“Put all you are into
the smallest thing you do.”*

Kathy Fehst Barroso | CEO
and **José Luís Barroso** | COO

It's a simple way to describe us. We like what we do and we are committed, to us, to our employees, to our customers, to our suppliers and to everyone we interact daily. We like sustained growth that substantiates trust, value by which we guide our performance.

Innovative solutions through continuous learning allied to “out of the box” thinking or if needed “inside the box”, make up a blend of expertise built on years of experience, attention to detail, fast responses and result in value adding solutions that meet our customer's expectations.

We embrace SIROCO as a family that commits itself to you through its values. Our goal is to create long term relationships in which we support our customer's growth, while leading a socially and environmentally conscious business. This is our DNA, this is our contribution.

Welcome to Siroco,S.A.

We are dedicated since 1988 to the special machine construction, featuring specifically automation solutions for high-efficient assembly lines. Our development, design and construction of machines is exclusive adapted to customer specific needs, providing complex and individual solutions.

By providing solutions in areas such as automotive, electrical and electronics industries, we are not limited, going further into medical and pharmaceutical industry, or consumer goods and household appliances. The need for assembling processes and quality control systems give us the chance to contribute with our best solution.

Having over 35 years of experience in the design, development, construction of automatic solutions, our team is capable to give you the best service based on their knowledge.

Our innovative company has its core competence in special machinery and plant construction as well as development of prototypes. With our business divisions automation and mechanic, we can offer our customer a wide range of services.

Tailor-made solutions reinforced by innovative solutions provide an added value in reducing actual production costs and further improvement on your final product. We ship our machines worldwide and commissioning on-site complete our performance. On the next pages, you will find data of our competences, capabilities and overall service.



The Siroco logo is located in the top right corner of the image. It consists of the word "siroco" in a lowercase, sans-serif font, followed by a stylized icon of a lightning bolt or a fan blade.

A close-up, blue-tinted photograph of industrial machinery, showing a complex assembly of metal parts, bolts, and a coiled copper wire. The image is partially obscured by a large magenta triangle in the bottom right corner.

WHERE THE WORLD MEETS INNOVATION

COMPETENCES

Our Services

Engineering

Project planning EPLAN P8
(*electrical, pneumatic and hydraulic project*)

System integration

PLC Programming

HMI Programming

Motion Programming

Data acquisition

Process Control

Drive system and feedback
control technology

Technical and industrial design
and layout

Vision control systems (2D and 3D)

Laser control systems

Robotics

Deep Learning

3D printing

*certainly we can!
Ask for what you need
and we get busy...*

Capacity

Solidworks

PDM Works

CAD/CAM System

Design for mechanical structures

Shop floor layout study

Automation Laboratory

(PLC, Vision Solution, Robotics, Pneumatics, Hydraulics)

Quality control - Metrology and Capability Laboratory

CNC Centers *(4 and 5 axis)*

Wire EDM

Conventional Lathes

Drilling and Grinding machines



WHERE THE WORLD MEETS INNOVATION



MANUFACTURING CELLS

*Best performance guaranteed.
Designed and built for companies with high production volumes and low cycle times.*

Automatic

Automatic components feeding

Servo Press fit with force and position control

Laser measurement for quality control

Cartesian manipulator for Palletizing

Industrial IT programming



Semi-Automatic

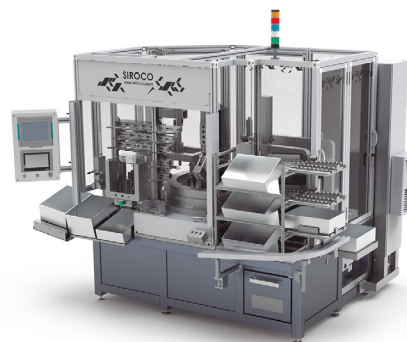
Precision machining

Automatic tool measurement

Self-cleaning systems

Machine Vision

SCADA



Robotic

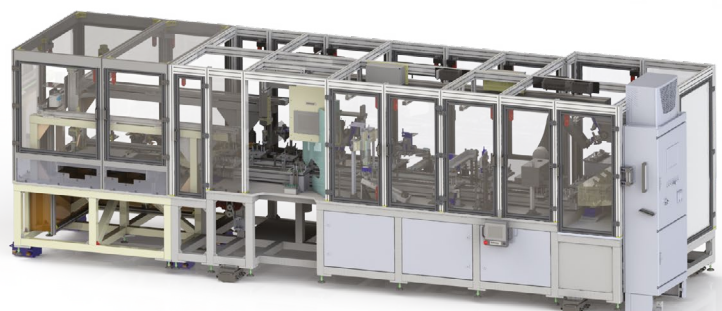
Resistance welding

Automatic tape application

Laser measurement

Artificial vision

Bin picking



ASSEMBLY LINES

Robust, modular assembly lines fit for companies with a high production volume. Highly complex and high-tech equipment.

Automatic

Pick & Place
Radial and telescopic manipulator
Ultrasonic welding
In-line product washing
Precision dosing
Pull testing
Final electrical testing
Palletising

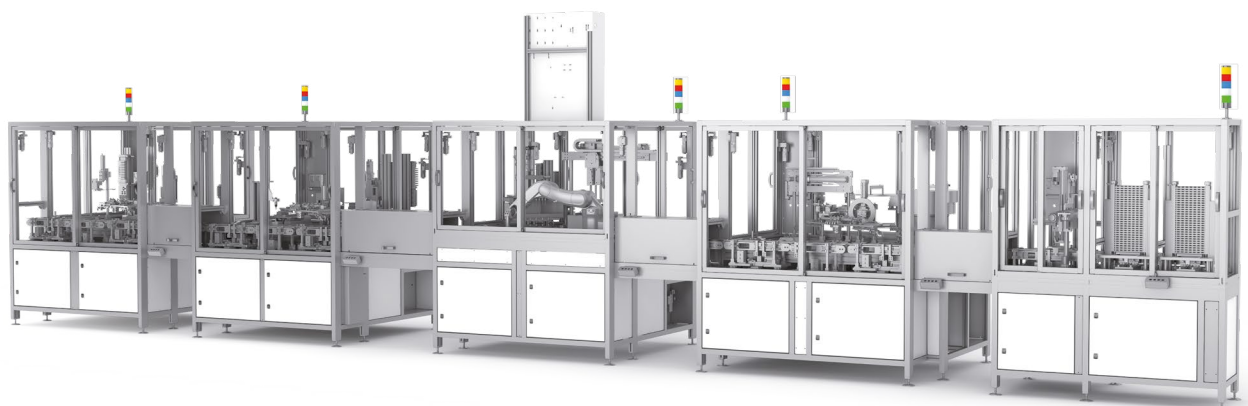
Automatic component guidance
and positioning

High precision plastic revolution
forming

Semi-Automatic

Conveyor and pallet type Bosch
Precision assembly
Final product inspection

Manual product feeding protected
by optical barriers



JIGS & TOOLS

Development and production of mechanic precision tools, jigs and assembly tools, to create cost-effective solutions.

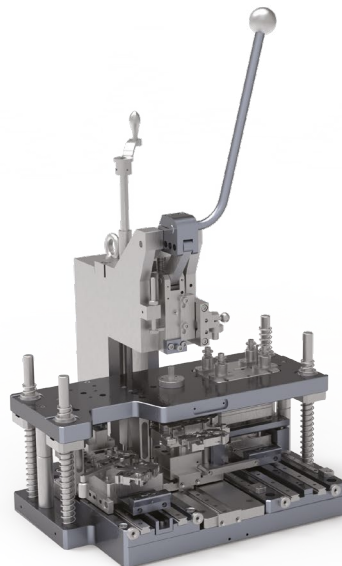
Control Stations

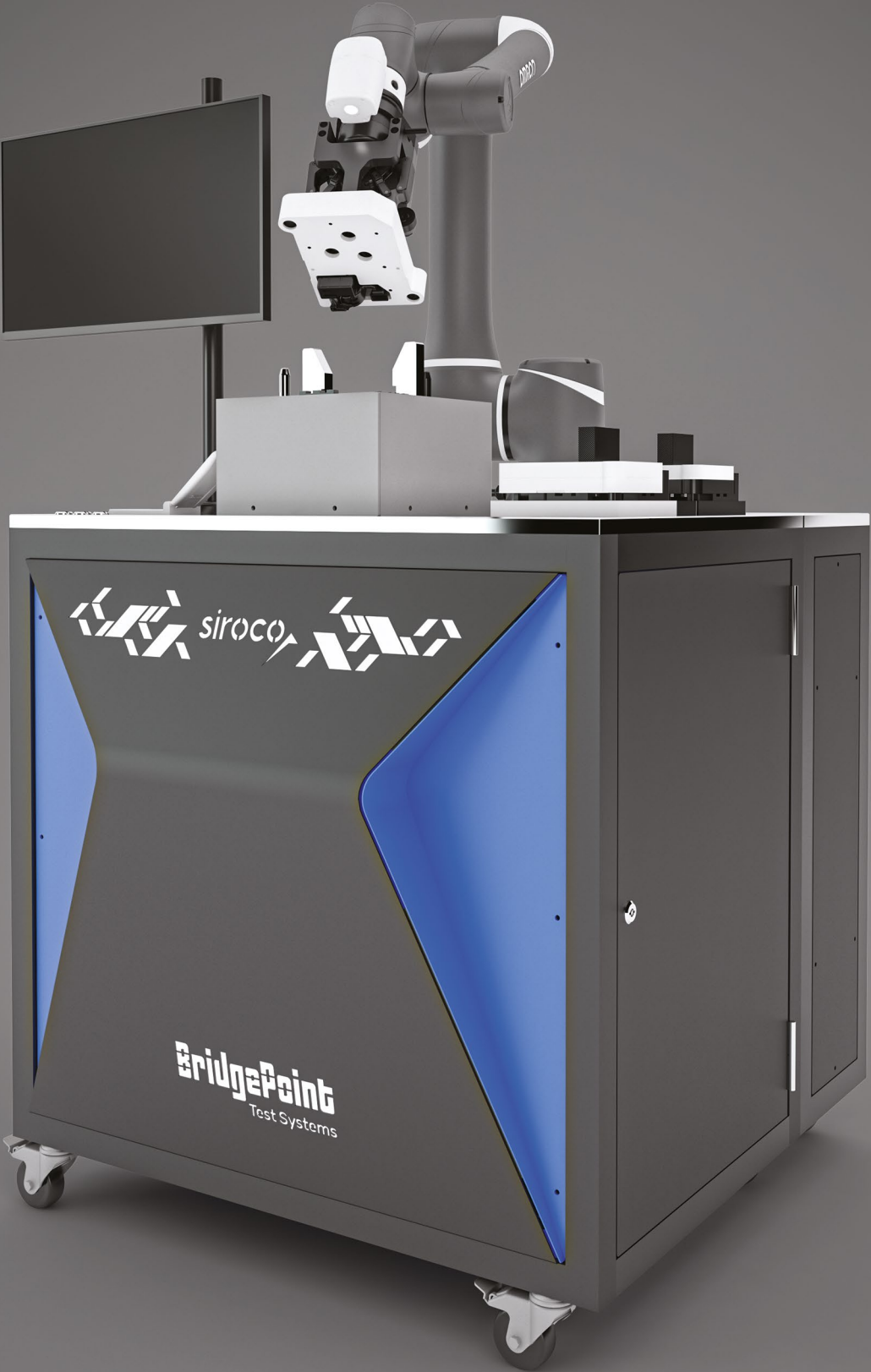
Work station for pressure test



Hand Tooling

Manual tool for assembling electronic components with presence confirmation by an electrical test





MTS MODULAR TEST SYSTEM

BridgePoint
Test Systems

MTS is a test and automation platform that is suitable for all industrial sectors. This modular system is based on measurement equipment with manual or automatic load.

The customized test fixtures are flexible for testing multiple products

E-Motors
Inverters
Battery Management Systems
Electronic Control Units
E-Charging
Infotainment
Capacitors
Relays
PCB Testing (In-Line and Offline)
Mass production EOL (End-of-Line)
Audit station for Quality Control
Product development
High Voltage, Hi-Pot, and Leakage Test





MTS MODULAR TEST SYSTEM

Technical Features



Benefits

Product validation for industrialization
Fully automated production
traceability and efficiency
Quality control guarantee
Test time & cost reduction

Application areas

PCB Functional Testing (In-Line
and Offline)
Mass production EOL (End-of-Line)
Audit station for Quality Control
Product development

Software

Modular test suite is a programable
automated test executive software
based on global development
environments, as NI TestStand,
NI LabVIEW and Python.

Test parameters, database integration,
user interface and reports, are
customized for each application.

Remote data management makes
the difference for control and test
monitoring.

Modularity concept

System can be integrated into an
operator-ready semi – automatic
concept design, collaborative working
mode or fully automatic machines
such as a conveyor line or robotic cell.

It can communicate with other
equipment through the main
industrial communication buses,
such as Profinet, EthernNet/IP and
EtherCAT.



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SUPPORT

we always meet customer expectation. Our attitude towards others determines their attitude towards us.

Project Management

Project Management

- Schematic and Layout drafting
- Technical Writing and Manuals
- Field service and start-up assistance
- Programming and Maintenance Training

Commissioning

- Install
- Start-up
- Training
- Technical support

Simultaneous Engineering

- Soft- and Hardware modification
- On-call service with rapid remote diagnosis





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