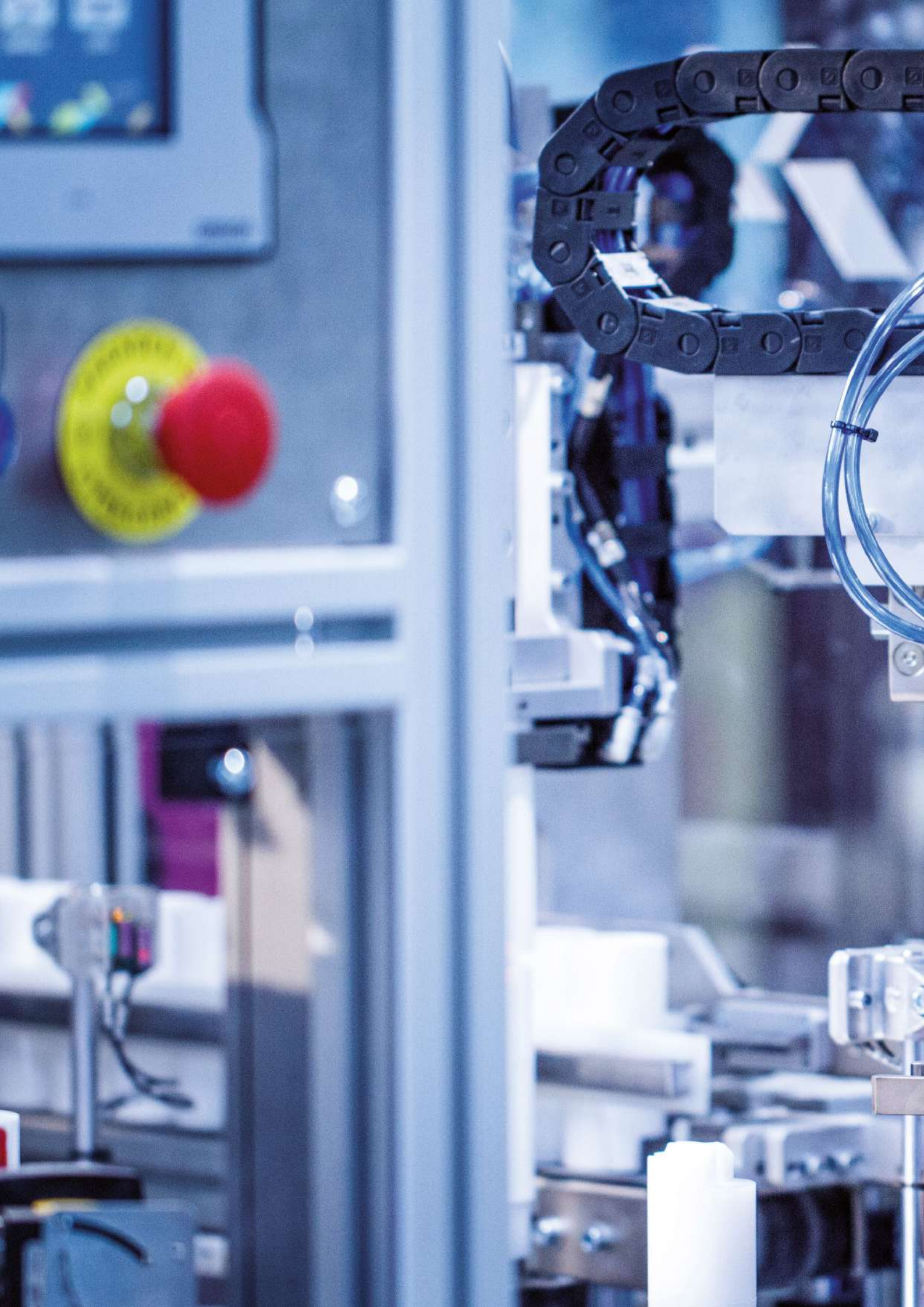


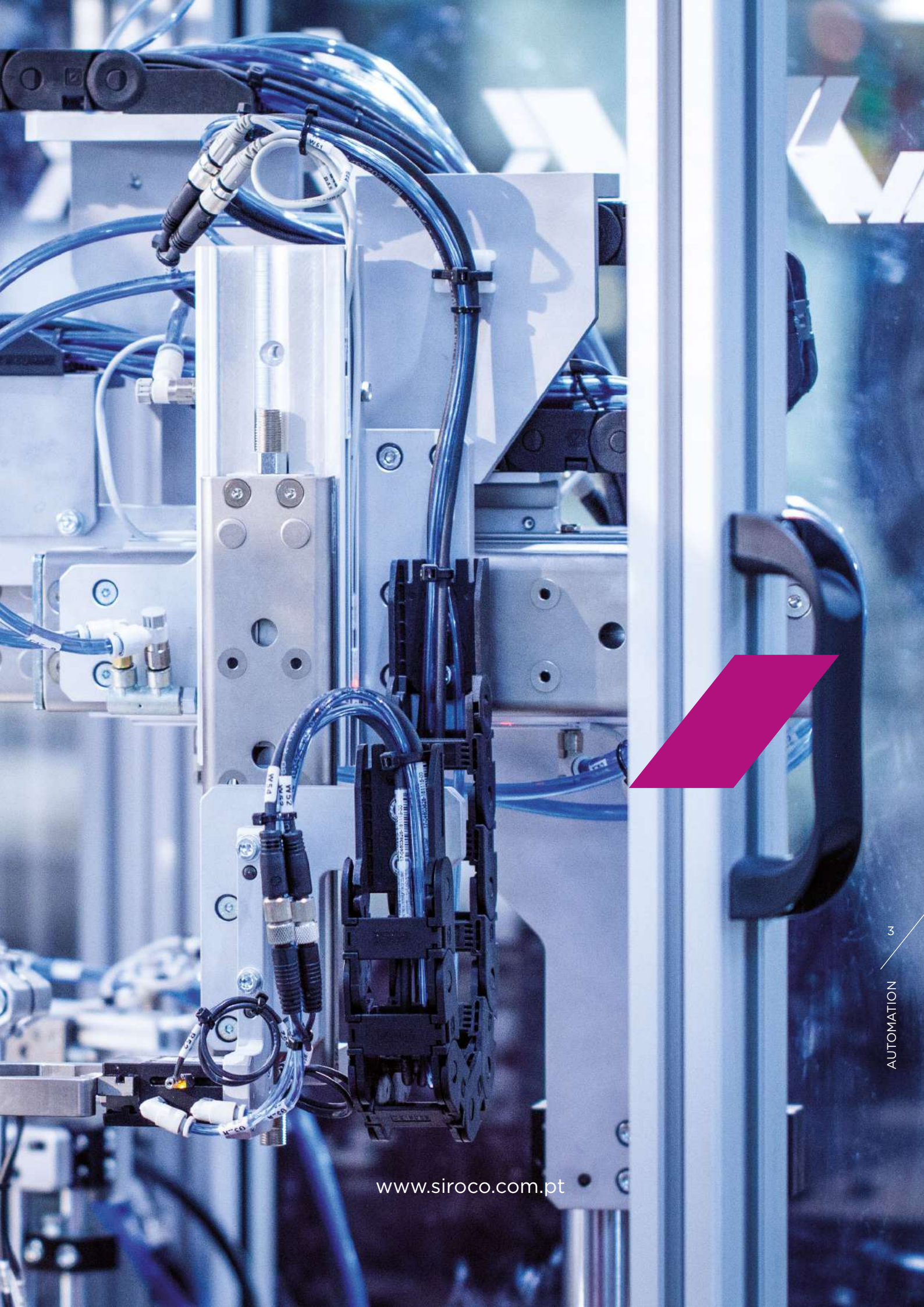
WHERE THE WORLD MEETS INNOVATION



siroco 

The logo for 'siroco' features the word in a lowercase, sans-serif font. The 'i' is a vibrant blue, while the remaining letters 's', 'r', 'o', 'c', 'o' are in a dark grey. To the right of the text is a blue graphic element consisting of a triangle pointing upwards and to the right, with a sharp point extending downwards and to the right.





www.siroco.com.pt

WHERE THE WORLD MEETS INNOVATION

siroco

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.



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

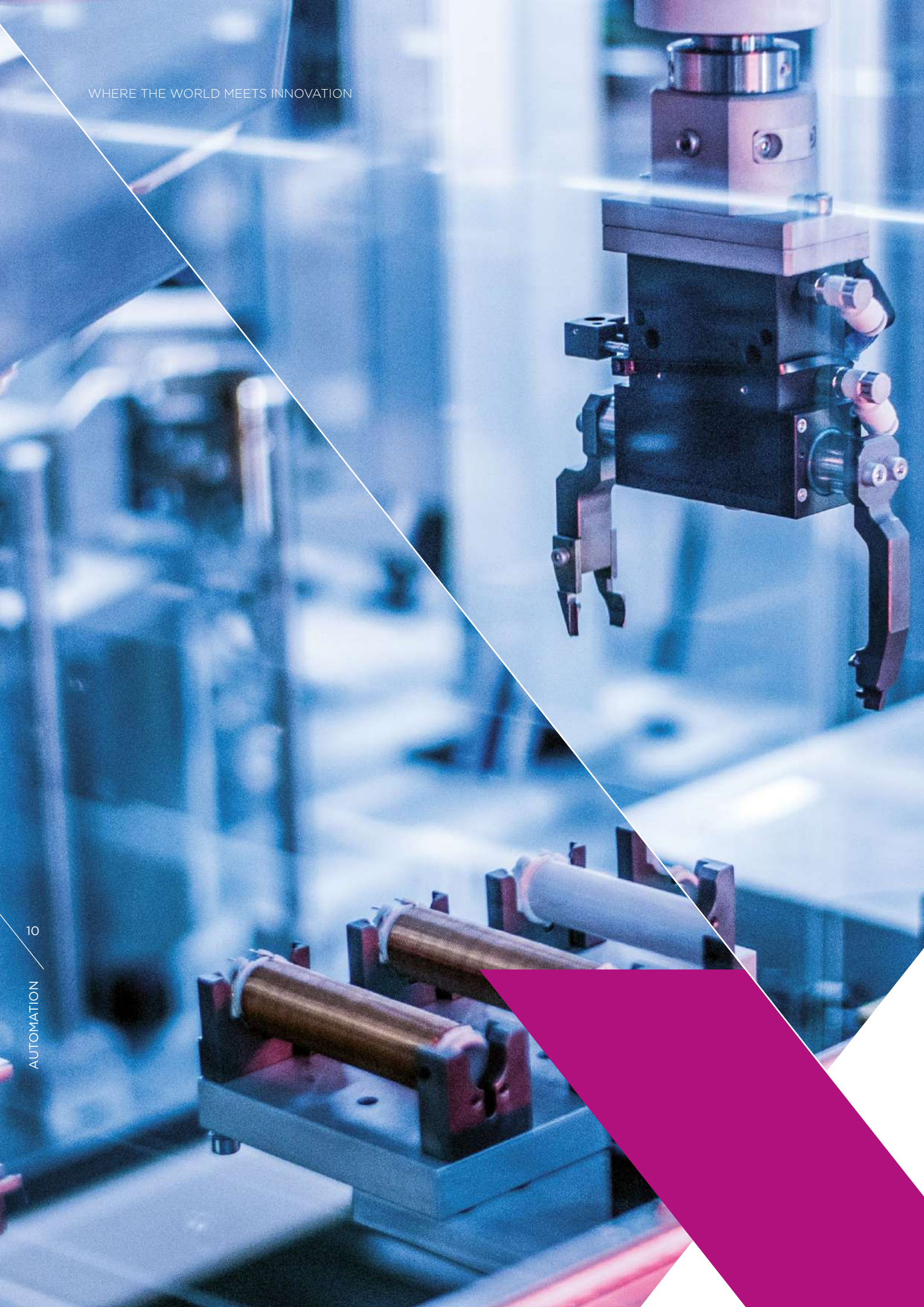
Conventional Lathes

Drilling and Grinding machines



WHERE THE WORLD MEETS INNOVATION

10
AUTOMATION



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.

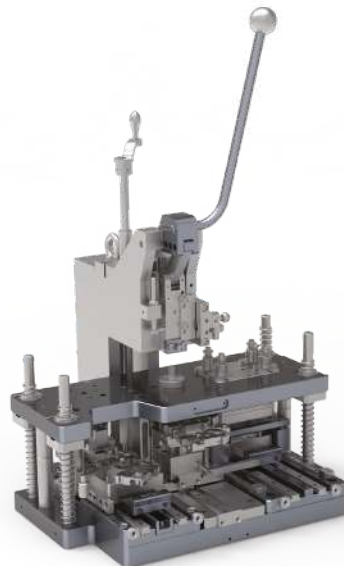
Control Stations

Work station for pressure test

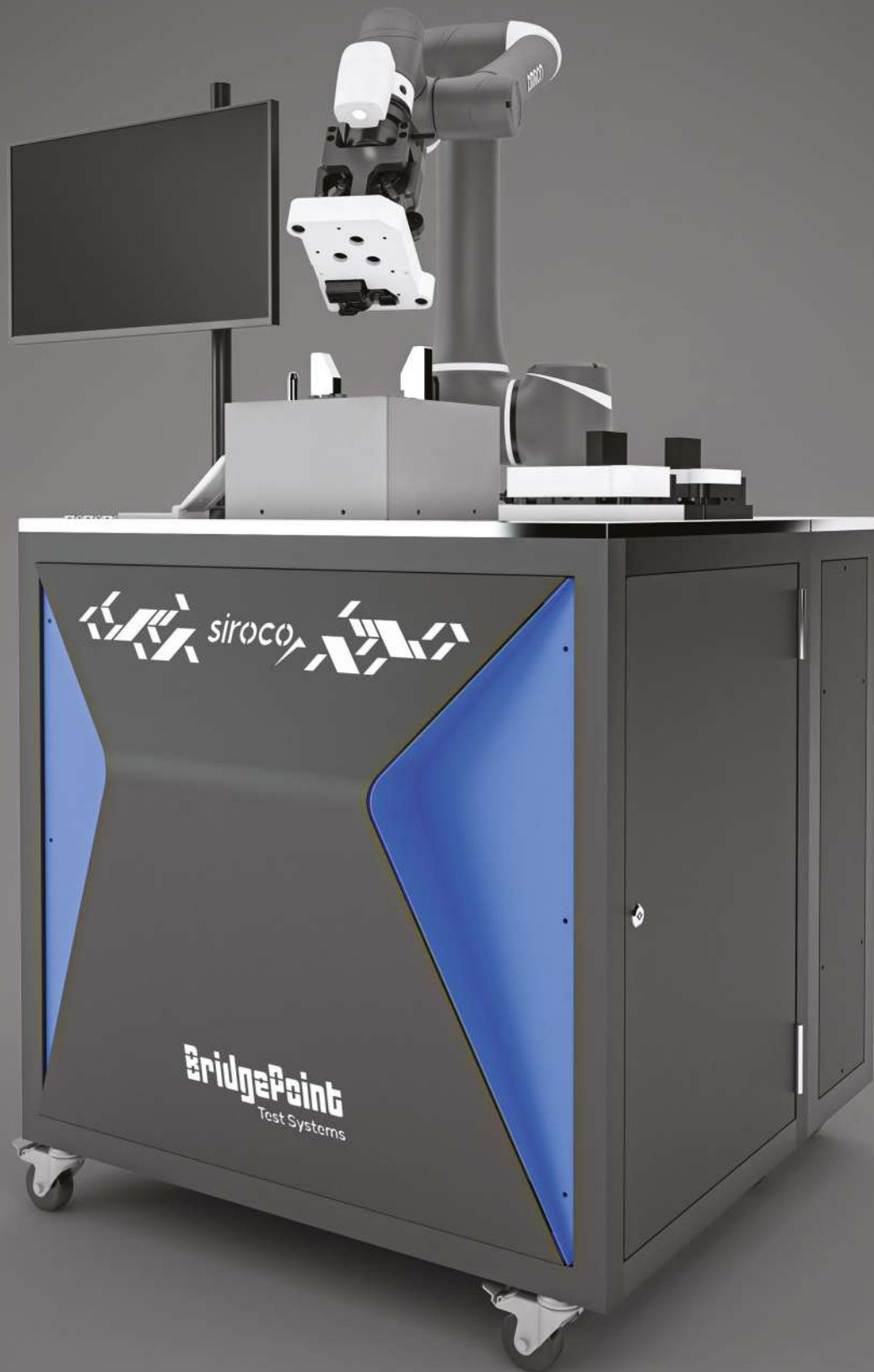


Hand Tooling

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



WHERE THE WORLD MEETS INNOVATION



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



sponsors:





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.





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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