

*Tailored
industrial
system*
**FOR QUALITY
CONTROL
PROCESSES**

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PROCESS *quality control*

We design, manufacture, and distribute **advanced industrial automation solutions**, integrating customised vision systems for dimensional and surface quality control, with the aim of **optimising production processes, reducing errors, and maximising productivity**.

We support our customers from the definition of project specifications to the complete development of the solution, offering **expertise in mechanical, electro-mechanical, electronic, and software design**.

We manufacture and assemble in-house or with the support of local suppliers.

Your quality PARTNER

VICI & C. specialises in **industrial automation systems, electrical panels, and optical measurement machines** for companies operating in highly complex markets. We anticipate change, transform production requirements into reliable, tailor-made

solutions, and apply automation to increase efficiency and reliability. We support our customers with **proven technical expertise** and a **proactive approach**, focused on measurable results over time.



Watch our
Automation Systems
at work



80

million
turnover

260

people in Italy
and worldwide

5

branches
worldwide

2

international
partners

40

specialised
centres

100%

renewable
energy

10

patents

38

average age of
employees

CUSTOM SOLUTIONS, COMPETITIVE PRODUCTION

VICI Automation is the division of VICI & C. dedicated to the development of advanced systems for industrial automation. We design, manufacture, and distribute solutions that integrate vision technologies for dimensional and surface quality control, **improving production efficiency** and **reducing errors**.

Thanks to our consolidated experience in customised automation, we build **machines that combine robotics, customised mechanics** for process automation, and **artificial vision systems**, supported by artificial intelligence algorithms. Each solution can be **adapted** to any production line.

Our systems are designed to increase reliability, cut costs, reduce machine or line downtime, and guarantee the high quality of the finished product. We offer solutions that eliminate human error and allow **superior control over the production process**, while ensuring flexibility and rapid response to market developments.

The technologies we offer **integrate easily with existing infrastructure** and are designed to evolve over time, ensuring a rapid and sustainable return on investment.



OUR VALUES

Passion

Curiosity drives us every day to improve ourselves and our environment, guiding us toward new horizons. We believe in what we do and enthusiastically embrace challenges.

Trust

We value listening and promote open and transparent dialogue. In this way, we help everyone achieve the best possible results.

Customer orientation

We care for our customers, partners and employees. They inspire us to enable them to turn their needs into new opportunities.

Uniqueness

The value we place on people defines our style. We act with respect, humility, and ambition, building a strong sense of belonging.



A proven operating MODEL

VICI Automation is the ideal partner for companies wishing to innovate and optimise their production processes, reducing operating costs and ensuring superior quality standards.

Our industrial SECTORS

We collaborate with diverse industrial companies, developing tailor-made applications that meet specific control, automation, and integration requirements along production lines.



DESIGN FLEXIBILITY AND SECTOR VERSATILITY

Unlike one-size-fits-all solutions, VICI Automation adopts a **tailor-made approach**, designing and manufacturing customised automation systems for specific customer requirements.

DIRECT COLLABORATION WITH THE CLIENT

Every project begins with an in-depth dialogue to understand the client's real needs, strategic objectives, and operational challenges. This collaboration allows us to offer **solutions that are perfectly aligned with expectations and desired outcomes**.

CONTINUOUS INNOVATION

VICI Automation constantly invests in research and development to offer **technologically advanced, highly customisable solutions** capable of adapting to an ever-evolving market.

SCALABILITY OF SOLUTIONS

The proposed solutions are not only customisable, but also scalable. **Each system can evolve over time**, following the development of production needs. Automation thus becomes a dynamic and lasting asset.

DEDICATED ASSISTANCE AND SUPPORT

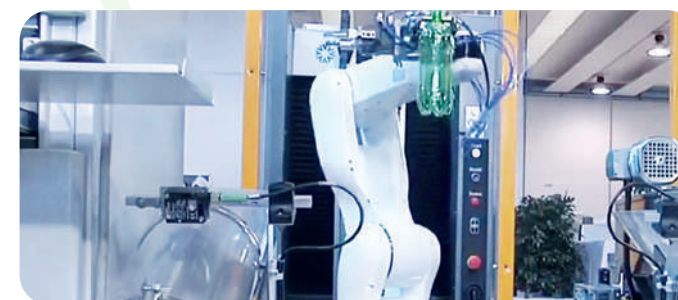
VICI Automation provides ongoing technical support throughout the entire project lifecycle. **Support is tailored** to ensure the proper functioning of systems and continuous performance improvement.

DESIGN IN ACCORDANCE WITH REGULATIONS

Each solution is developed in **full compliance with current industry regulations**. This ensures production efficiency and compliance with the highest standards of safety, quality, and sustainability, eliminating the risk of penalties or delays.

TANGIBLE ROI

Thanks to the reduction in operating costs and downtime, VICI Automation ensures a **concrete, measurable, and sustainable return on investment over time**.



AUTOMOTIVE

Dimensional and quality control of components.

TESTING FOR PACKAGING

Testing and inspection stations for plastic caps and cardboard packaging.

FOOD & BEVERAGE

Dimensional and quality control of bottles, biscuits, and snacks.

MANUFACTURING

Robotic systems for loading and unloading mechanical components in the workshop.

Fields of application AND SPECIALISATIONS



ASSEMBLY CELLS

Automatic assembly processes can be designed by integrating several stations into a single compact work cell. Parts conveyors can be connected to any type of automatic station, such as mechanical part inserters, markers, or palletizers, integrating vision stations where necessary for component recognition and quality verification of previous stages.

OPERATIONAL VALUE

Maximum compactness and synchronization between phases, for efficient assembly without errors or downtime.



LOAD/UNLOAD SYSTEMS

To increase the productivity and flexibility of a machine tool, or more generally of a production line, automatic workpiece loading and unloading systems can be used, available in various configurations, such as anthropomorphic robots flanked by linear or rotary vibrators for workpiece separation.

OPERATIONAL VALUE

Optimization of the production flow even in the presence of variable formats or frequent changes.



HANDLING AND TRANSFER SYSTEMS

Technologies that can be used for the efficient handling of parts throughout the production process include: rotary tables, parts feeding via belts or conveyors, horizontal or spiral vibrating systems, and robotic manipulators.

OPERATIONAL VALUE

Synchronization with cycle times, continuous and safe handling even for parts with unconventional shapes.



OPTICAL VISION AND QUALITY CONTROL SYSTEMS

The synergy between industrial automation and optical measurement and/or surface quality control systems ensures reliable and continuous inspections of parts in production.

OPERATIONAL VALUE

Increased productivity, continuous quality improvement, and complete production traceability.



COLLABORATIVE ROBOTS

Thanks to collaborative technology, robots can work side by side with operators, automating tasks such as part handling, assembly, dosing, and inspection for quality control.

OPERATIONAL VALUE

Transition to automation facilitated by a progressive and easily scalable approach, even for production lines that are already up and running.



AUTONOMOUS MOVEMENT ROBOT (AMR)

Factory automation benefits from the integration of AGV (Automated Guided Vehicles) or AMR systems for repetitive operations requiring high levels of safety and precision, such as the handling of components and heavy loads.

OPERATIONAL VALUE

Reduced risks and increased operational efficiency by entrusting the most demanding operations to robots.



SOLUTIONS FOR PALLETISING

To meet the application specifications requested by the customer, different types of robots can be used, ensuring the required cycle times, necessary speeds, and compliance with the available space.

OPERATIONAL VALUE

Thanks to the camera on board the robot, palletising is accurate even in the event of positioning errors of the pieces or trays.



TEST BENCHES

Every process needs to be configured and maintained within production tolerances. Dedicated solutions for off-line test benches evaluate and control production batches, integrating different types of sensors and measuring devices.

OPERATIONAL VALUE

Accurate batch validation without interrupting production or slowing down the line.



FIELDS OF APPLICATION
AND SPECIALISATIONS

Solutions IMPLEMENTED

Each machine represents the result of an integrated design approach, in which application experience, technological vision, and attention to detail translate into measurable production value.



SOLUTIONS IMPLEMENTED

Certified reliability over time thanks to structured processes that ensure consistent standards, full regulatory compliance, and long-term operational stability.



PP6

Pick & Place machine for valve measurement.

- **APPLICATION FIELD:** Designed for static dimensional inspection of cylindrical components, specifically ICE valves.
- **SYSTEM CONFIGURATION:** Compact and fast; operates in both left-to-right and right-to-left directions.
- **LOADING AND HANDLING:** Equipped with a pick-up/off-load station for direct valve transfer from/to the conveyor belt.
- **INSPECTION CAPABILITIES:** Performs static measurements on scanned valve profiles; configurable for Pass and Truck valve types.
- **NOK PARTS MANAGEMENT:** Provides PLC signals to manage NOK valve sorting along the production line.

VGI 1000

Valve guide inspection machine.

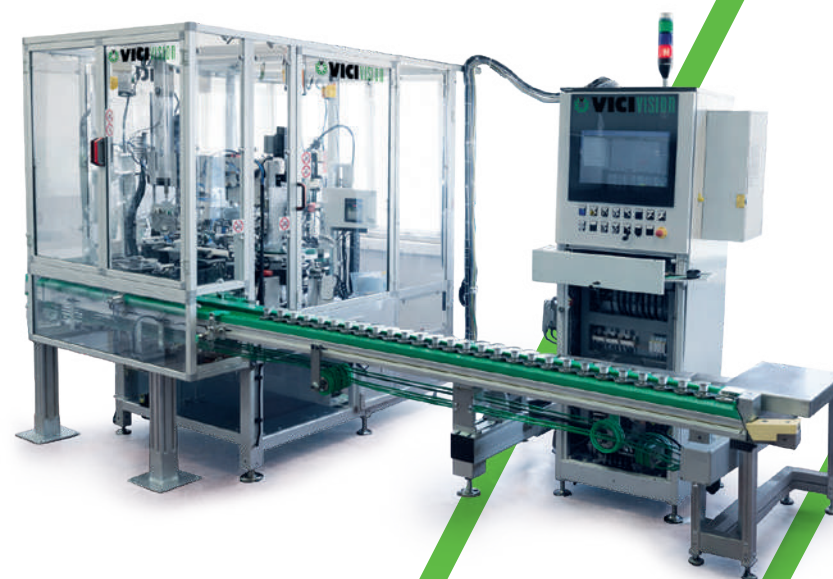
- **APPLICATION FIELD:** Dimensional (static and dynamic) and full surface inspection, including micro-crack detection on ICE valve guides.
- **SYSTEM CONFIGURATION:** Compact and configurable for front or rear feeding; includes integrated laser marking and DMC reading station.
- **LOADING AND HANDLING:** Compatible with part feeders on either side.
- **INSPECTION CAPABILITIES:** Scanned profile inspection, surface check (scratches, cracks, dents), eddy-current sensors for micro-cracks, internal runout (analog probe) or Go/No-Go diameter control.
- **NOK PARTS MANAGEMENT:** Automatic rejection into separate containers based on the detecting station.
- **INTERFACE AND TRACEABILITY:** Two monitors connected to dedicated control units for data display and traceability.



PP10

Multi-station Pick & Place machine for valve measurement.

- **APPLICATION FIELD:** Designed for dimensional inspection on scanned profiles of cylindrical objects (specifically ICE valves), with optional seat runout measurement.
- **SYSTEM CONFIGURATION:** Rotary table with 5 gripping units: loading, runout inspection (optional), dimensional inspection, NOK segregation, unloading.
- **LOADING AND HANDLING:** Integrated Pick & Place system for valve transfer from/to the production line conveyor.
- **INSPECTION CAPABILITIES:** Measures Pass or Truck valves with simple machine configuration.
- **NOK PARTS MANAGEMENT:** Automatic sorting of non-conforming parts via dedicated station.
- **INTERFACE AND TRACEABILITY:** PLC-based control.



MVI 850EVO

Machine for valve surfaces and dimensional inspection.

- **APPLICATION FIELD:** Static measurements and surface quality inspection on cylindrical objects (specifically ICE valves).
- **SYSTEM CONFIGURATION:** Available in Pass or Truck versions; bidirectional models (L-R / R-L) and with or without control station.
- **LOADING AND HANDLING:** Automatic valve transfer from/to the conveyor via optional pick-up/off-load unit.
- **INSPECTION CAPABILITIES:** 6 stations: Dimensional (optional), TIP, face, seat, RIM, and stem with optical inspection; dimensional control managed by dedicated PC.
- **NOK PARTS MANAGEMENT:** Each station features an independent rejection line; out-of-tolerance valves automatically separated.
- **INTERFACE AND TRACEABILITY:** Two PCs manage dimensional and surface inspections; PLC signals support automatic sorting.

CFT

Plastic caps functional test machine.

- **APPLICATION FIELD:** Quality control of plastic caps of various shapes and sizes.
- **SYSTEM CONFIGURATION:** 48-position trays, SCARA robot for Pick & Place and testing; Plug & Play supports for fast format change.
- **LOADING AND HANDLING:** Automatic Pick & Place from fixed tray, repositioning after testing.
- **INSPECTION CAPABILITIES:** Functional tests include weight check, dimensional inspection (top and side cameras), leak test, and torque test.
- **NOK PARTS MANAGEMENT:** Visual feedback (green/red) based on test results.
- **INTERFACE AND TRACEABILITY:** All results saved in dedicated files stored in the machine PC; full traceability ensured.



GTS

3D gluing system machine.

- **APPLICATION FIELD:** Precision hot-melt glue dispensing and distribution along complex trajectories.
- **SYSTEM CONFIGURATION:** 6-axis anthropomorphic robot; configurable as process simulator or in-line station.
- **LOADING AND HANDLING:** Robot moves along customized paths with adjustable parameters.
- **INSPECTION CAPABILITIES:** Fine-tuning of quantity, path, pressure, and execution of peel tests for quality validation.
- **NOK PARTS MANAGEMENT:** Process validation via adhesion tests.



TMC

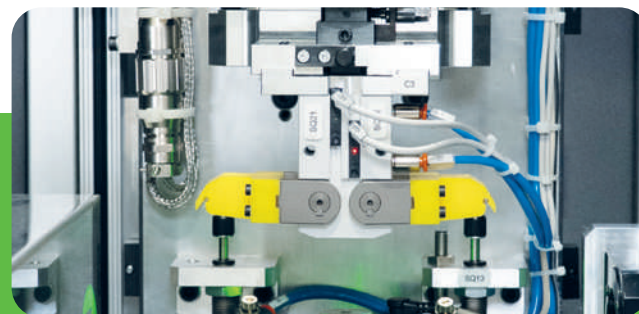
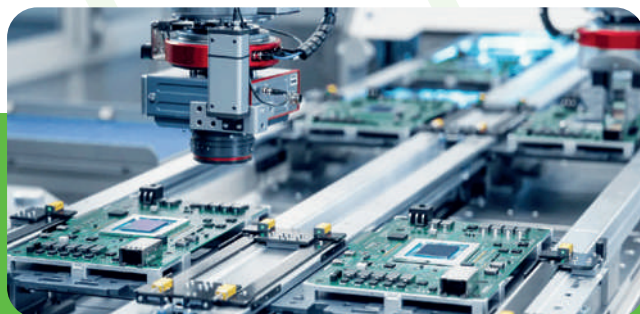
Bakery product quality inspection machine.

- **APPLICATION FIELD:** Visual inspection and selection of tartlets and snacks moving at high speed on conveyor belts.
- **SYSTEM CONFIGURATION:** Multi-camera vision system capturing 3 views (including 3D profile); advanced tracking algorithm.
- **LOADING AND HANDLING:** Products travel at approx. 1 m/s toward the end-of-line packaging station.
- **INSPECTION CAPABILITIES:** Visual defect detection; high-precision discrimination even between closely spaced products.
- **NOK PARTS MANAGEMENT:** Selective rejection of only defective products, maintaining line continuity.

BDT

Machine for dimensional inspection of PET bottles.

- **APPLICATION FIELD:** Dimensional control of PET bottles for production lot validation during stretch-blow molding machine acceptance tests.
- **SYSTEM CONFIGURATION:** Robotic cell with optical scanner and interferometric thickness sensor.
- **LOADING AND HANDLING:** Anthropomorphic robot handles bottle pick-up from infeed, placement into scanner, and selective release.
- **INSPECTION CAPABILITIES:** Complete geometric analysis and thickness measurements in critical zones.
- **NOK PARTS MANAGEMENT:** NOK bottles are discarded to a dedicated line; OK bottles placed in the output container.
- **INTERFACE AND TRACEABILITY:** All results stored and traceable for future analysis.



VICI & C. *Group*

VICI Automation is a division of VICI & C.,
a company that also includes two other
complementary businesses:

VICIVISION

Specialised in the design and production of
optical measuring machines for the dimensional
inspection of turned and ground parts.

The solutions are designed to be used directly
on the shop floor: they improve production
efficiency, reduce waste, and ensure fast and
accurate quality control.

VICI ELECTRICAL PANEL

Focused on the design, construction, and
distribution of electrical panels, machine edges,
and industrial automation systems.

It manufactures customised electrical panels
that guarantee reliability and full integration into
production processes.

