

ROBOTIC AUTOMATION

Solutions for industrial automation

belotti

BELOTTI ROBOTIC AUTOMATION

Your partner for industrial automation

Belotti Robotic Automation is the division specialising in the **design and supply of robotic lines and cells** aimed at optimising complex production processes across a wide range of industrial sectors (e.g. automotive, aerospace, marine, packaging or materials processing industries).

Thanks to its consolidated experience in the construction of CNC machining centres and its in-depth knowledge of automation systems, Belotti Robotic Automation designs and installs **turnkey automated solutions**, whose scope of application covers all areas of robotics: from small loading/unloading cells to the most complex assembly plants equipped with anthropomorphic robots, storage systems, and feeding and control devices.

Each project is developed through a structured three phase approach:

- > **Analysis and design:** the technical-sales department is where project proposals take shape, combining technical expertise with thorough context analysis.
- > **Engineering:** each system is carefully designed and engineered to meet all customer's specific requirements.
- > **Production and installation:** the system is assembled and tested in house prior to installation at the customer's site.

The industrial automation systems developed by Belotti Robotic Automation can be implemented both for the **start up of new production processes** and for the **improvement of existing plants**.

The company acts as a single point of contact for all project phases — design, production, installation, and maintenance — ensuring expertise and timely intervention.

ADVANTAGES

- > Short-term return on investment
- > Higher productivity, cost reduction and increased profitability
- > A single point of contact throughout the entire process (design, production, installation, and maintenance)
- > High reliability and reduced risk of error
- > Improved operator safety
- > Optimisation of production space

APPLICATION SECTORS

AEROSPACE



AUTOMOTIVE



CHECKING
FIXTURES



DESIGN AND
FURNITURE



ENERGY AND
BUILDING



RAILWAY



MEDICAL



PATTERNS AND
MOULDS



MOTORSPORT



MARINE



PACKAGING



THERMOFORMED

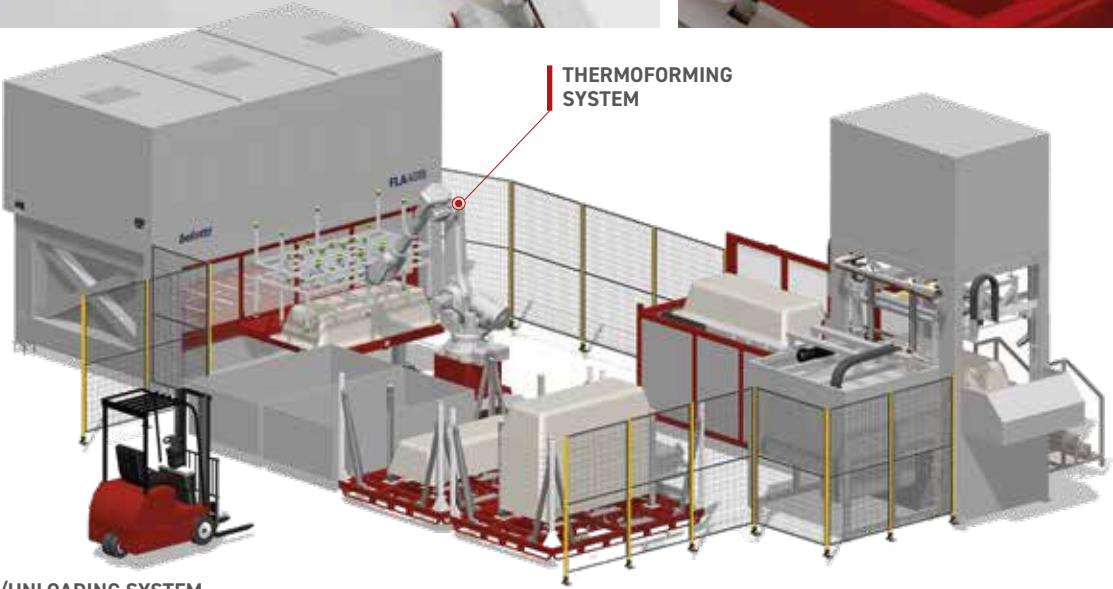


INDUSTRIAL AUTOMATION SOLUTIONS

The industrial automation projects developed by Belotti Robotic Automation can be integrated throughout the entire production process, covering a wide range of applications: from **automated loading and unloading of components**—including foam panels, aluminium sheets, or thermoformed parts—to **robotic cells** for the **machining and assembly** of finished parts.

Integrated robotic lines with CNC machining centres enable automated operations such as picking raw parts, positioning them in the machine, and handling finished components, reducing cycle times and optimising production flow.

For **machining** and **assembly** operations, our division designs **automated cells equipped with 6-axis anthropomorphic robots**, available in standard configurations or integrable with an additional linear axis. These solutions ensure high flexibility and freedom of movement for **milling, trimming, polishing, and riveting** operations, with the goal of streamlining customer operations, increasing productivity, and ensuring consistent quality standards over time.



AUTOMATIC LOADING/UNLOADING SYSTEM
FOR PANEL MACHINING



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ARC | AUTOMATIC RIVETING CELL

Belotti ARC is the riveting cell for automatic application of small parts on composite components.

Belotti ARC is the game-changing **robotic cell** equipped with a special **riveting head** designed for the **rapid and automated application** of the entire range of **time-sert inserts and rivets** of different diameters on **composite** frames and components.

Developed to manage two different processes—**pulling** and **screwing**—with a **single device**, this pioneering technology ensures **application accuracy**, **process efficiency**, and **operational flexibility** for high-performance industries (e.g. **automotive** and **aerospace**).

Equipped with a 6-axis anthropomorphic robot managed by a numerical control system, Belotti ARC performs orientation, picking, checking, and clamping/tightening of rivets and time-sert inserts, transforming a traditionally manual, operator-dependent process into a fully automated one.

KEY ADVANTAGES

- > **A single device** for the application of multiple types of inserts
- > **Maximum flexibility and reachability** to the working areas
- > **Easy and intuitive programming** via ISO language thanks to Siemens Run MyRobot
- > **High reliability** thanks to an electronic parameter control system
- > **Maximum precision**, with real-time monitoring and feedback
- > **Improved productivity**

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INTEGRALE

Belotti Integrale is the modular robotic cell that integrates CNC and robotic systems and programming languages within a highly automated automotive production line.

Thanks to a structured two-level operating concept, Belotti Integrale efficiently manages **milling, drilling, trimming, and sanding operations on components made from advanced materials** (such as carbon fibre, Kevlar, and light alloys), thereby increasing plant **productivity**.

Equipped with anthropomorphic robots, a rotary table, handling shuttles, and automatic storage systems, the cell features a **modular design** that ensures seamless integration into existing production environments and flexible customisation to meet specific customer requirements.

KEY ADVANTAGES

- > **Full integration** into existing plants for process optimisation, thanks to the modular design and customisation options
- > **High precision** in machining composite materials and light alloys
- > **High level of automation** for unattended operation
- > **Integrated and simplified** robot and CNC programming via ISO language thanks to Siemens Run MyRobot
- > **Centralised** remote **service** and **diagnostics**



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