

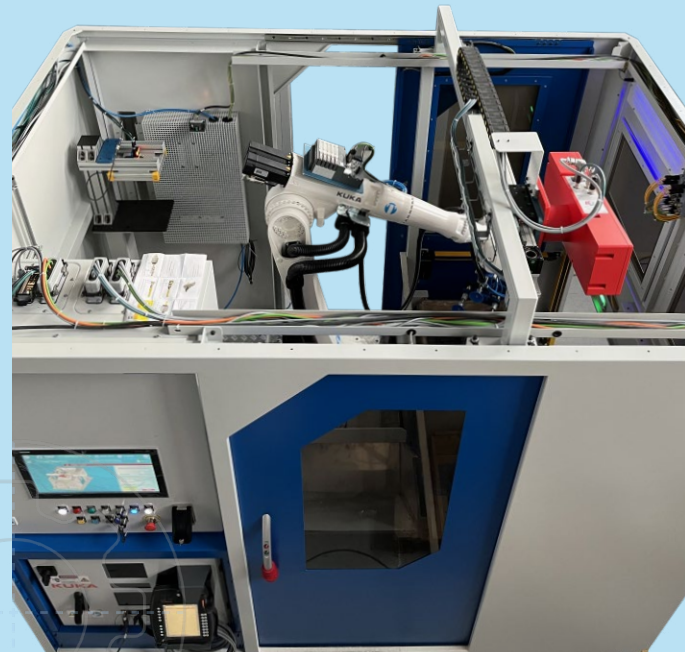
BIN PICKING: efficient and customizable automation

Our robotic Bin Picking cell is a highly efficient and flexible solution designed to optimize the unloading and unloading process, ensuring a constant non-stop workflow to significantly improve productivity.

Our solution is fully adaptable and can meet a wide range of demands, starting from simple configuration to more complex solutions.

FROM PALLETIZING TO BIN PICKING

The basic cell offers a reverse **bin picking system** for palletizing, not requiring a vision system. The advanced **bin picking** solution, thanks to the insertion of a vision system, it allows robot to autonomously pick objects from containers, such as crates, and transfer them accurately to other stages of the production or packaging process.



360-DEGREE CUSTOMIZATION

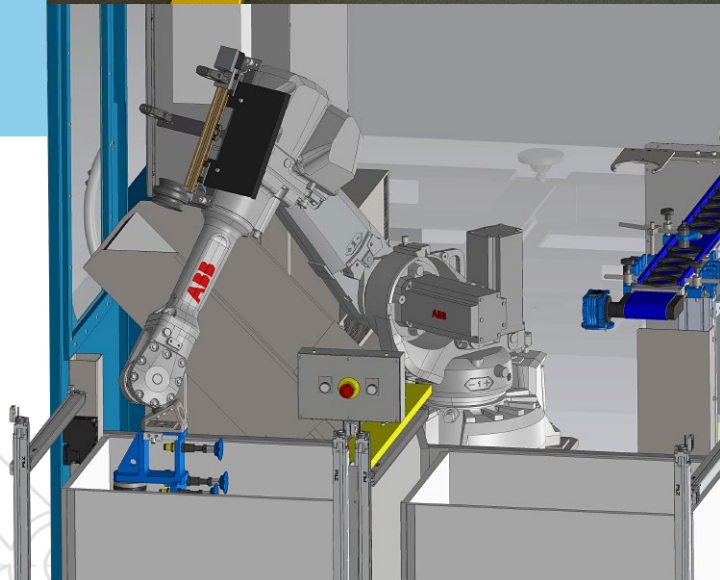
Flexibility is the heart of our robotic cell.

Every aspect of the system can be customized to fit the specific demands of your production process. Starting from the choice of the number and type of robots used, to the type of camera applied, or the gripping tools, to the addition of quality control station or rotation of the workpiece picked. Everything can be customized to ensure optimal performance.



Customizations of the robotic cell

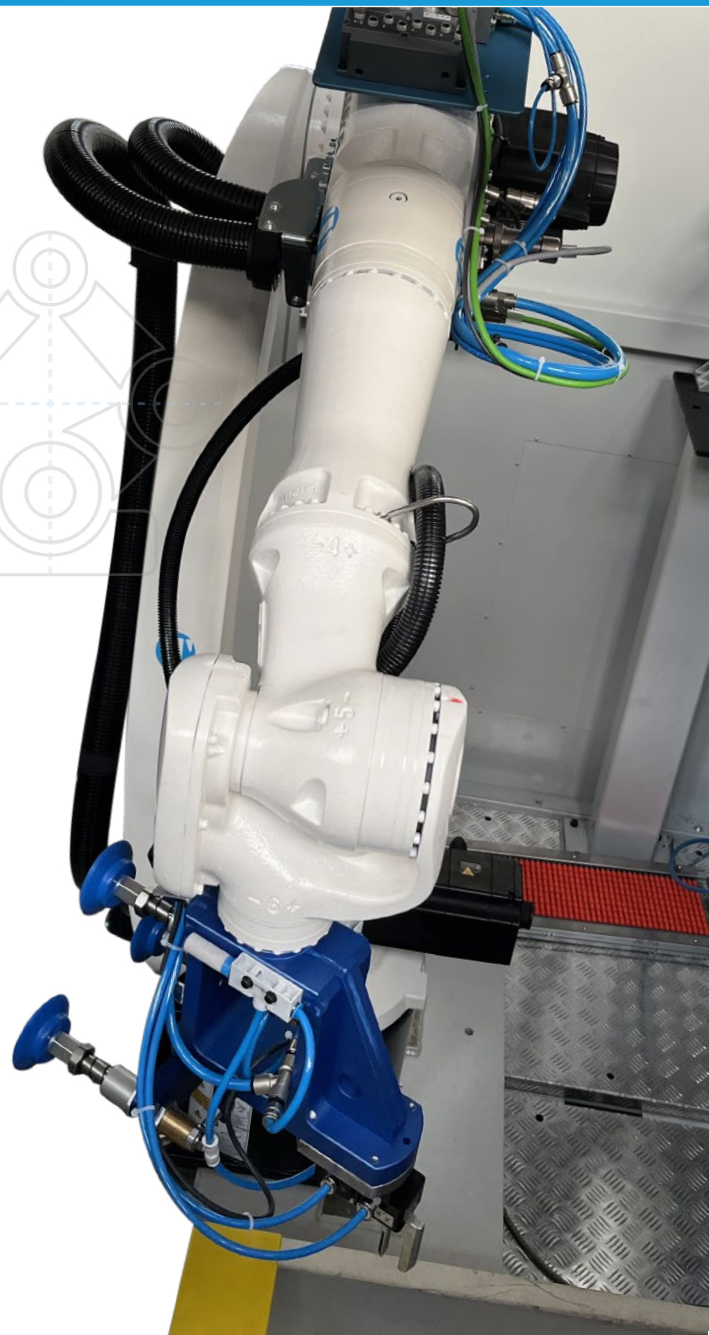
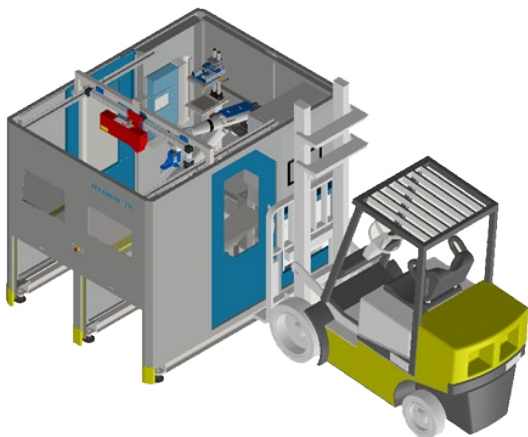
- 2D CAMERAS
- 3D CAMERAS
- NUMBERS AND TYPE OF ROBOT
- INTERLAYER MANAGEMENT
- GRIPPING TOOLS
- CONTROL STATIONS
- ADDITIONAL ROTATIONS



COMPACT AND INTEGRABLE DESIGN

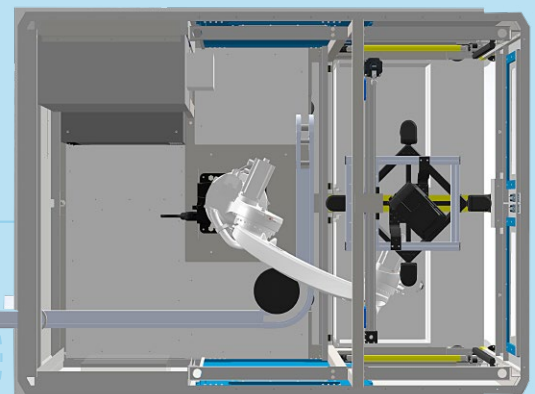
With a compact desing and a small size, the cell can be easily integrated into your production layout, maximizing available space and optimizing production space management.

This allows you to implement automation without compromising your existing layout and ensuring harmonious interaction with other production processes. In addition to that, our cell is designed for easy transportability as it is totally integrated into a single package, which reduces the cost in the case of shipping. This approach not only simplifies the disassembly and re-assembly process, but also significantly reduces shipping costs in case of transfers or distribution of the robotic cell away from our production site.



FAST CYCLE TIME

Aware of the tight schedules and challenges companies have to face in today's manufacturing sector, we paid special attention to developing a solution that maximizes operational efficiency, reaching ***cycle times of 6 seconds for some solutions.*** Using state-of-the-art technologies and efficient handling systems, our system completes the process of unloading and loading parts quickly and efficiently, increasing hourly productivity and significantly improving the efficiency of the production process.



CUSTOMIZED HMI

To ensure an optimal operator experience, we provide a customized HMI for your robotic cell. Starting with our own highly functional standard HMI, we customize it together with the customer to perfectly fit your specific needs. The intuitive and user-friendly HMI allows you to easily monitor and control cell operations, view real-time data, set working parameters, and receive notifications in case of anomalies. With an interface tailored to your requests, **you will have full control over cell activities and can react promptly to any production changes.**



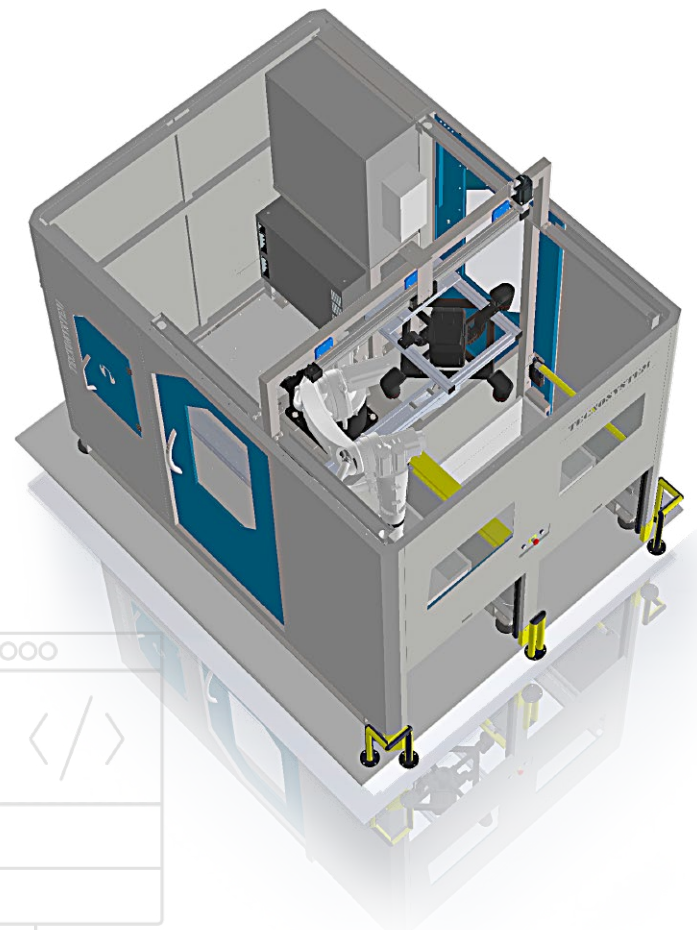
SAFETY

Safety is crucial to us.

Our Robotic Cell is equipped with advanced safety technologies, protective sensors and intelligent control features to ensure a safe and secure working environment.

REMOTE SUPPORT

We offer remote support service to promptly resolve any issues or concerns. Our technical experts can monitor cell operation in real time, quickly identifying and resolving any malfunctions or optimizing system performance. Remote support reduces downtime and costs for on-site support interventions, ensuring maximum performance of your robotic cell.



TECNOSYSTEM



Via Torino 17/2
10060 Roletto (TO) - Italy
Tel. +39 0121 542940
info@tecnosystem.com
www.tecnosystem.com