



esi

R O B O T I C S

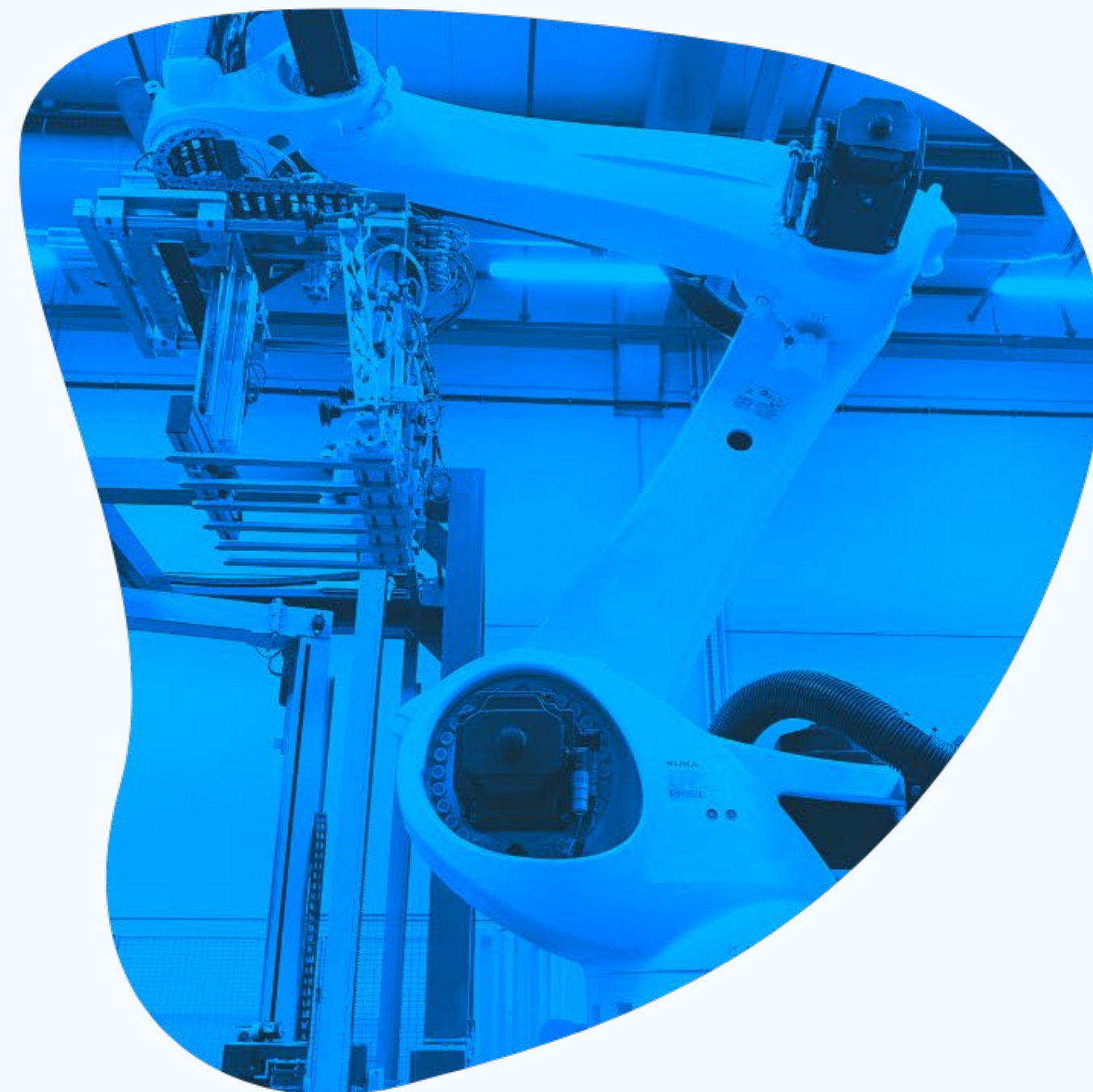
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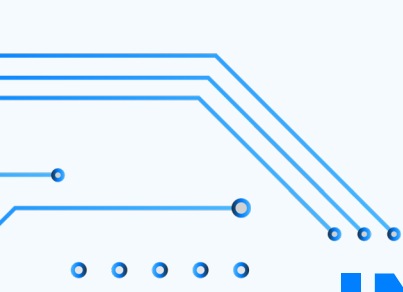


ESI is a technology-based company, created in 2007, to support companies, making them **more competitive and profitable**. We create **custom solutions**, tailored for each client, which allow our partners to achieve high levels of competitiveness and performance, valuing time, increasing productivity and quality.

Research and Development (R&D) can and should be used so that industries improve their systems and methods, to progress in internal and organizational processes.

We carry out production studies for problem-solving, automation and process acceleration, resulting in **cost reduction and value creation**.





INNOVATION AT YOUR SERVICE

WHAT WE DO



R&D



ROBOTICS

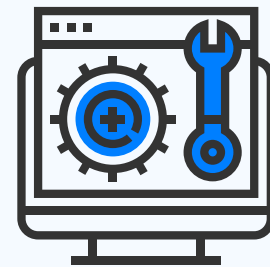
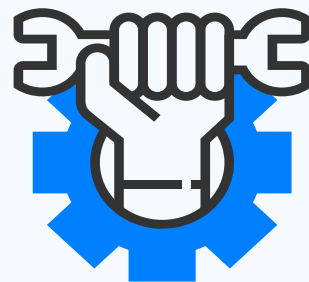
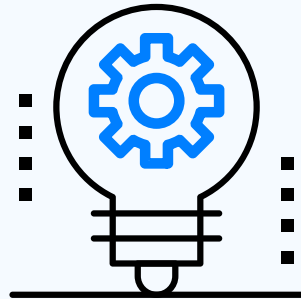


**INDUSTRIAL
AUTOMATION**



**MECHANICAL
SOLUTIONS**

OUR PROCESS



PROJECT

DEVELOPMENT

AFTER-SALES

Consultancy
R&D
3D Project

Building
System Installation

Assistance Service

An **industrial solution, tailored to your needs**, to achieve high levels of competitiveness and productivity.





PRODUCTIVITY



VALUE CREATION



CUSTOM SOLUTIONS



COST REDUCTIONS



DRIVING
AUTOMATION
EVERYWHERE

A decorative graphic of blue circuit lines with dots at the end, located in the top left corner.

AREAS OF ACTIVITY

DRIVING AUTOMATION EVERYWHERE

All the **know-how** accumulated over the years of R&D projects in the most diverse industrial sectors, allows us to be a partner of excellent value in consultancy and project management.

We work together with our customers, in the **analysis of production processes**, for constant improvement. We apply our know-how to innovative systems that allow cost reductions and value creation. There is a Win-Win relationship, which results in increased productivity for our customers.



AUTOMOTIVE



FOOD



METALWORKING



MEDICAL



POLYMERS



CONSTRUCTION



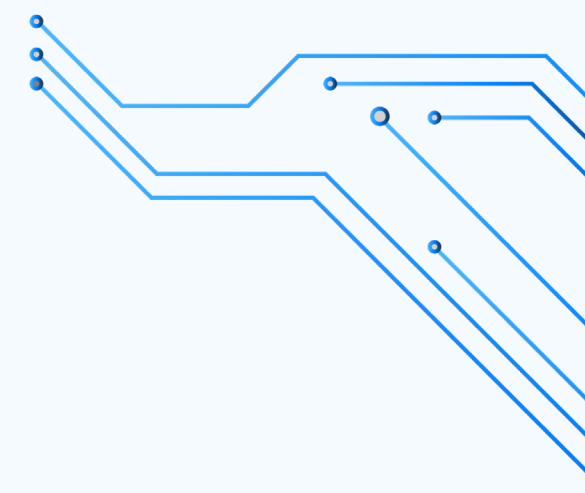
WOOD



CORK



CERAMICS





WHAT WE DO

INNOVATION AT YOUR SERVICE



R&D PROJECT

3D | 2D

We have a **Research and Development (R & D)** department, with a multidisciplinary engineering team capable of developing and designing any type of system, according to the specific needs of each client.



ROBOTICS

CUSTOM SOLUTIONS

We have a team of specialists, capable of designing the most complex mechanical and robotic systems.

We are official integrators of the main robot brands: **YASKAWA KUKA, ABB, FANUC, UR**, and so on. The robotics technology associated with our engineers' know-how has been a successful fusion, which allows us to increase our partners' profitability rates.

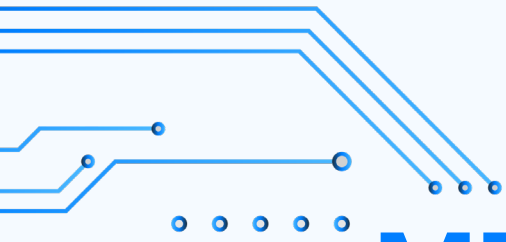




INDUSTRIAL AUTOMATION

Internally, we develop **electrical projects, electrical installations and industrial automation**. We integrate local/remote control and decision processes with the implementation of concepts related to Industry 4.0.





MECHANICAL CONSTRUCTION

METALWORK, WELDING AND PNEUMATIC

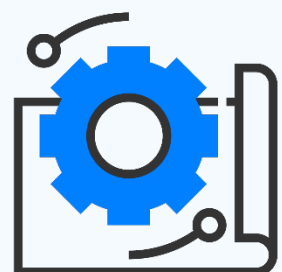
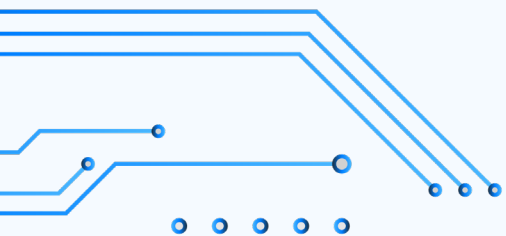
We build our equipment internally, with skills ranging from **mechanical construction, welding, pneumatic** and **hydraulic systems**.





SERVICES

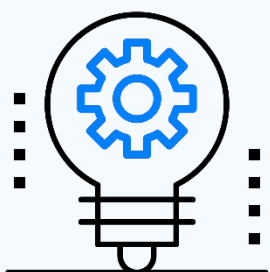
DRIVING AUTOMATION EVERYWEHRE



CONSULTANCY | PROJECT MANAGEMENT

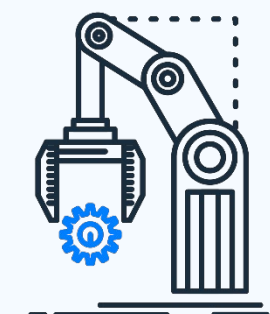
We offer a complete consulting service in the design and implementation of industrial units. We have a team with knowledge and experience in various industrial sectors, capable of developing a work of excellence from design, project, and planning.

We perform the global and integrated management of all necessary activities and parties involved.



R&D | RESEARCH AND DEVELOPMENT

ESI develops Research and Development projects for the automation and optimization of production processes. We carry out R&D projects, providing our clients with a differentiating service tailored to their needs, ensuring greater profitability and competitiveness. Your obstacles are our challenges!

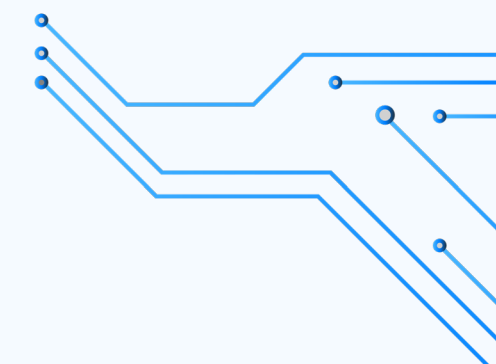


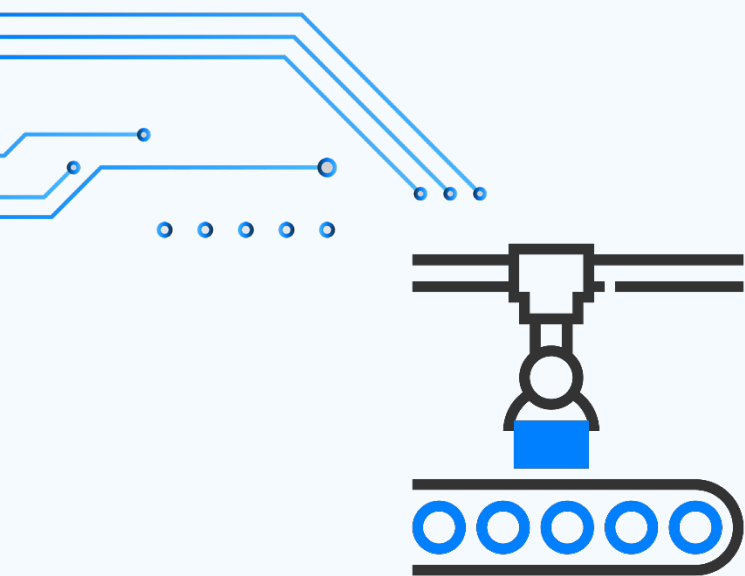
ROBOTIC CELLS

The integration of robots is key to preserving industries.

Robot integration is fundamental for the development and preservation of industries. At ESI we work with all the main brands of industrial and collaborative robots for the development of custom-made robotized cells. Robotics guarantees the competitiveness of your industry, production with reduced costs and fast amortization of investments.

It can be applied in several industrial sectors and perform different tasks, such as assembly operations, transport, machine tending, cutting tasks, welding, and palletizing, among others.

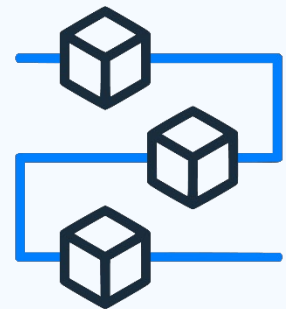




INDUSTRIAL AUTOMATION

We design and implement complete industrial automation systems, from PLC programming to switchboard production, design, and installation of electrical and communication networks.

We keep track of the development and evolution of technology. We study the best options for the development of precise, reliable, and suitable solutions for your industry. We integrate the best equipment, the most appropriate machines, robotics solutions, and artificial vision for further digitalization and production control.



PRODUCTION LINES

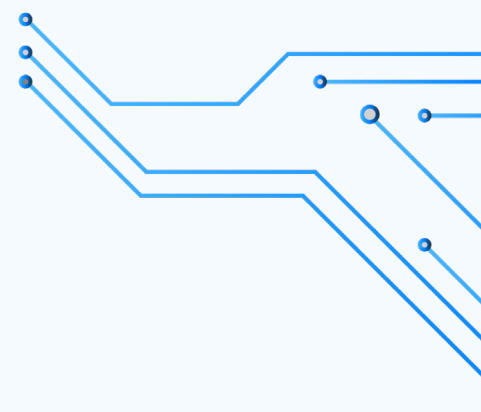
We develop complete production lines or integrate equipment into existing ones.

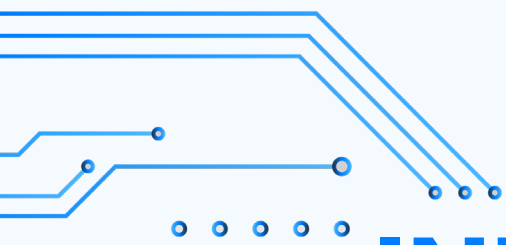
We conduct production studies to identify the processes involved and understand the points for improvement. After a careful and complete analysis, we propose specific solutions. We design and produce specific machines, especially projected to improve performance and respond to the most adverse needs of our customers.



MAINTENANCE

After the commercialization of our solutions, we offer an after-sales service. We offer complete maintenance services; we offer high-quality technical service. We have developed a digital platform with which we can obtain information from machines and robots in real-time. This is an exceptional technological tool for predictive maintenance.





INDUSTRY'S DIGITALIZATION



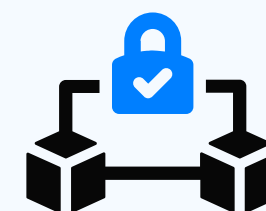
Real-time data



Custom Dashboards



Data collection for
predictive maintenance



Digital Safety



Remote Monitorization



MISSION

MAKING COMPANIES MORE COMPETITIVE AND PROFITABLE



We look at customers as partners in the constant evolution of methods and systems.
We develop projects tailored to each client, an exclusive service, which allows our partners to achieve high levels of competitiveness and performance

HOW?

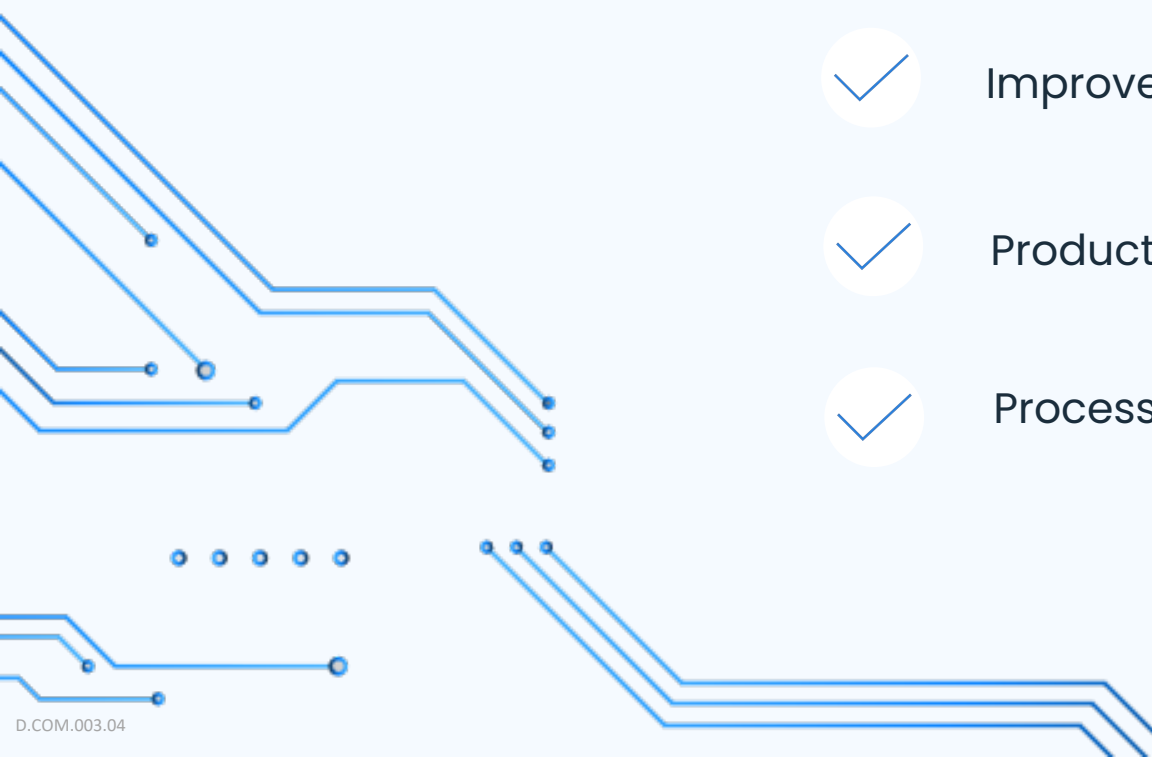
RESEARCH AND DEVELOPMENT (R&D)

- ✓ Processes Improvement
- ✓ Improvement of systems/methods
- ✓ Product Innovation
- ✓ Process Innovation

RESULTS:

COST REDUCTIONS AND VALUE CREATION

- ✓ Increased product quality
- ✓ Problem solving
- ✓ Reduction of production costs
- ✓ Productivity increase



VALUES



PASSION

Personal commitment to our work.



EXCELLENCE

We are committed to quality, perfection is our constant goal.



HONESTY

All the relationships we establish are based on ethical and integrity principles. We establish bonds with trust.



AVAILABILITY

We accompany the customer for full satisfaction.



SAFETY

Full commitment to prevent accidents.



SUSTAINABILITY

Concern for the environment and the impact of our actions and equipment.



CERTIFICATIONS

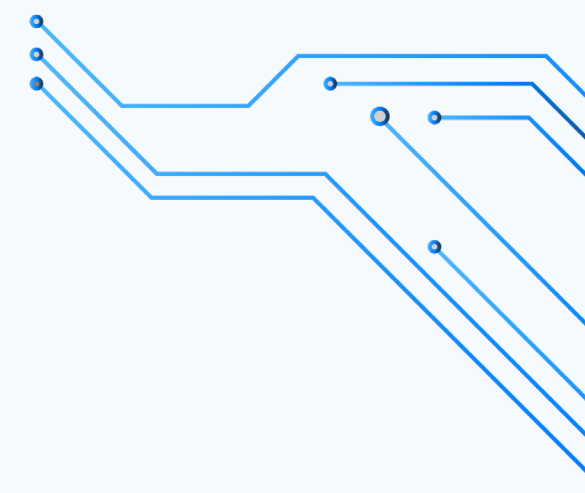
SGS | ANI

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WE ARE CERTIFIED BY SGS

QUALITY, ENVIRONMENT AND SAFETY MANAGEMENT SYSTEMS

ESI has successfully completed the certification process: Quality, Environmental and Safety Management System under ISO 9001:2015, ISO 14001: 2015 and ISO 45001:2019 by SGS. We were audited in December 2022, with no non-conformities recorded.

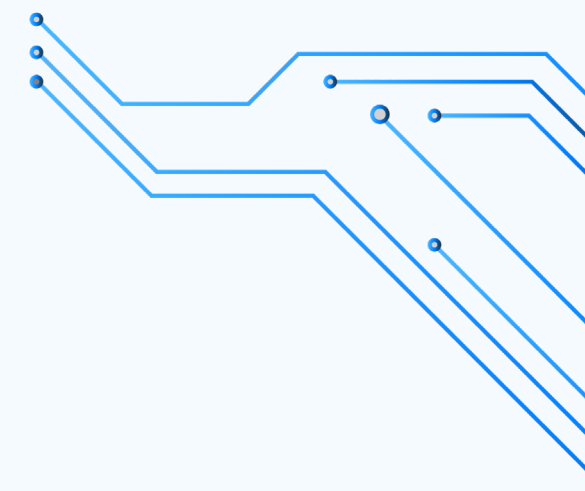


Decorative blue circuit lines with dots at the end, located in the top left corner.

SEAL OF RESEARCH AND DEVELOPMENT – ANI

SUITABILITY IN THE PRACTICE OF R&D ACTIVITIES

ANI (Portuguese National Agency for Innovation) has granted ESI the recognition of suitability to practice **R&D (Research & Development)** activities in the following technical-scientific domains and areas of activity: Production Technologies and Product Industries; Development and efficiency of Production Systems.

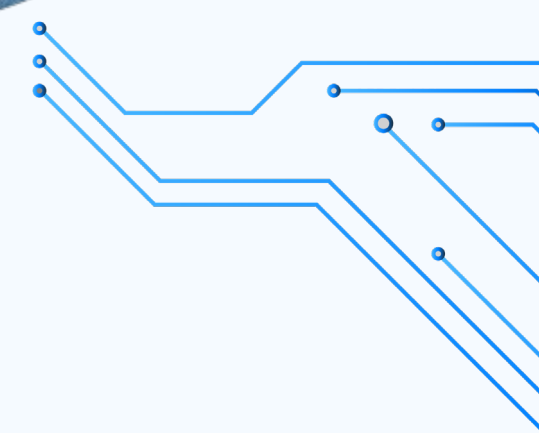




SUSTAINABILITY

OUR ROLE

For ESI, **the sustainable development of the planet** is a priority. The solutions we develop privilege economic development combined with environmental protection. We recognize our role, and we are aware of the impact of our actions and through our capacity for innovation, we contribute to a more **sustainable and inclusive future**.



STRATEGIC PARTNERSHIPS

EDUCATION, TRAINING AND RESEARCH



+ KNOWLEDGE ECOSYSTEM

- U.M. | TECMINHO
- FEUP | INEGI
- UNIVERSIDADE DE COIMBRA
- TÉCNICO LISBOA
- FAUP
- IPCA

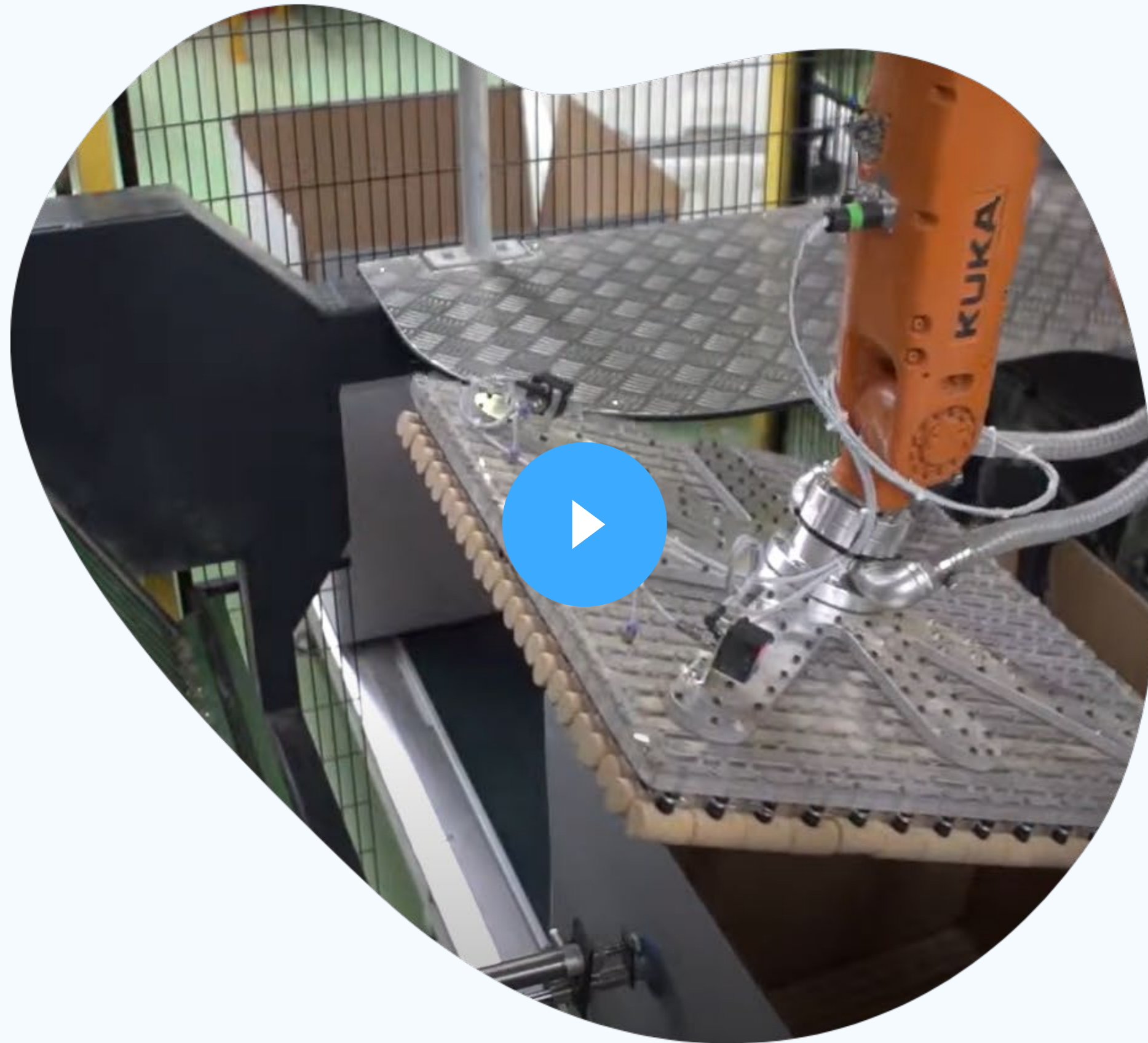


- RESEARCH / PATENTS
- INTEGRATED MASTER'S DEGREES
- CURRICULAR INTERNSHIPS
- PROFESSIONAL INTERNSHIPS
- ROBOTICS



ESI SOLUTIONS

SOME EXAMPLES OF OUR PORTFOLIO



CORK INDUSTRY

CORK STOPPER PACKAGING CELL INTERNATIONAL PATENT

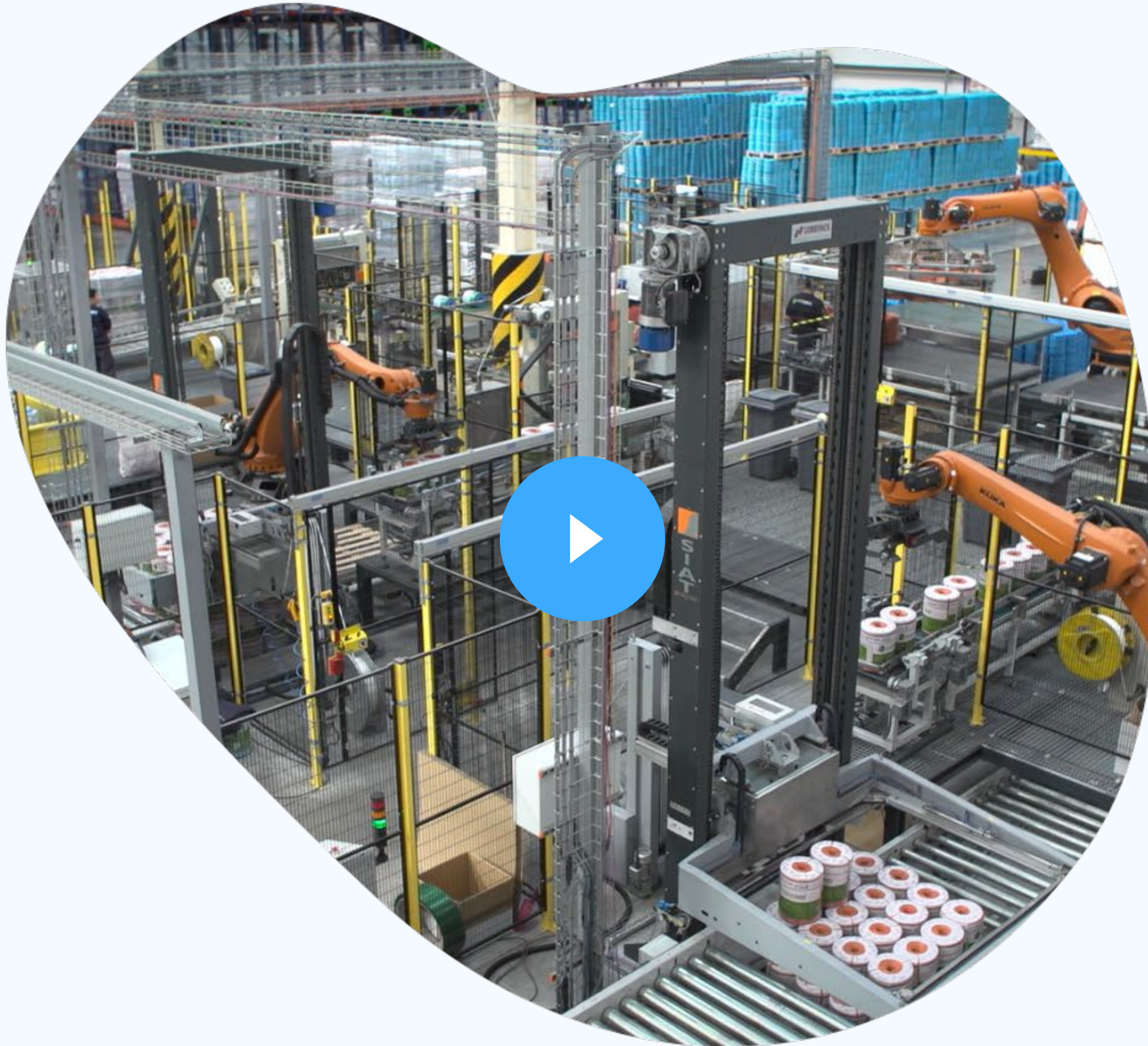
30% REDUCTION IN TRANSPORT VOLUME



ROPE INDUSTRY

FULL AUTOMATIC LINE

- TRANSPORTATION
- HANDLING
- INDIVIDUAL PACKAGING
- BELTING
- PALLETIZING
- AUTOMATIC TRANSFER
- AUTOMATIC WRAPPING
- PALLET STACKING

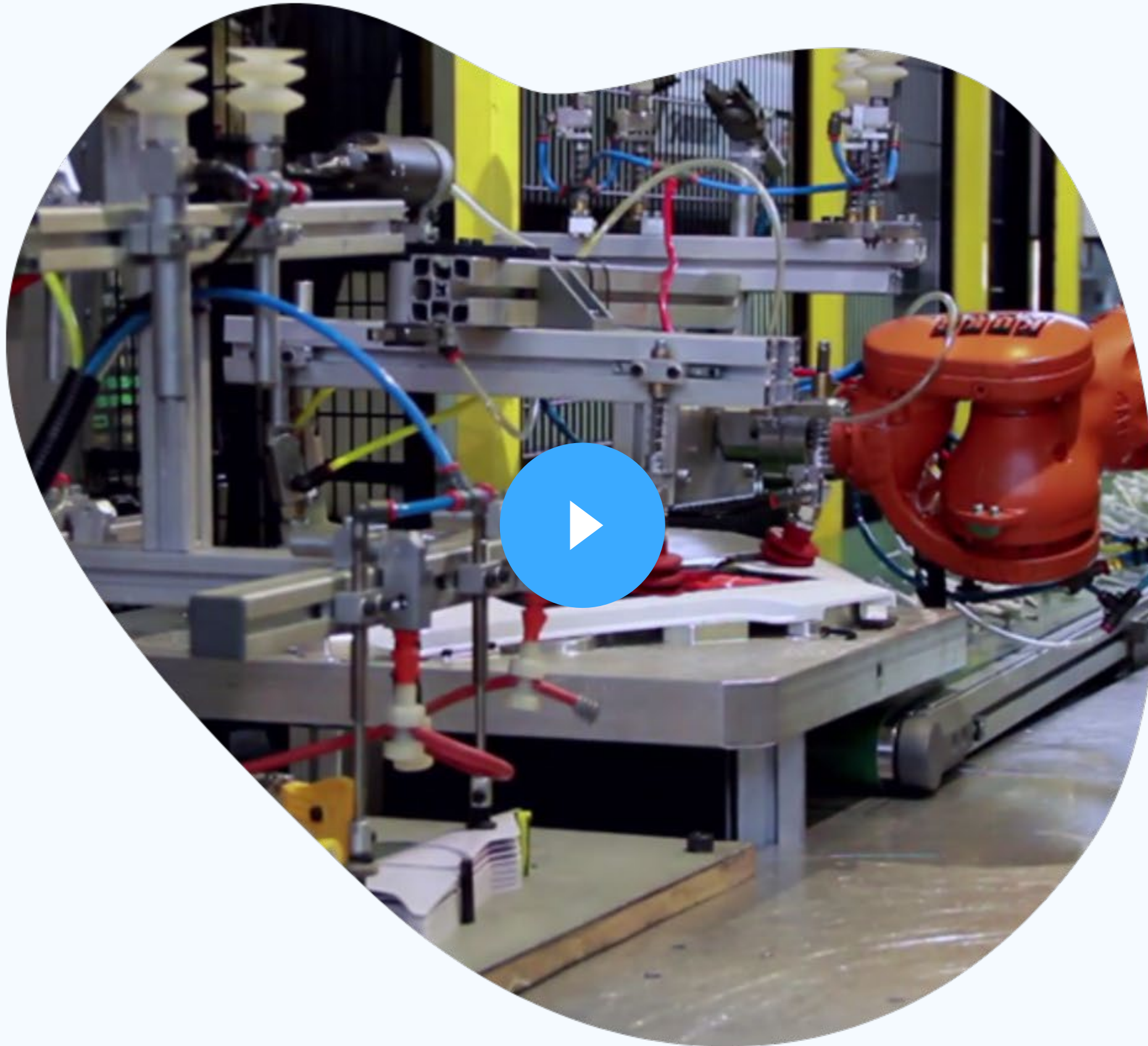


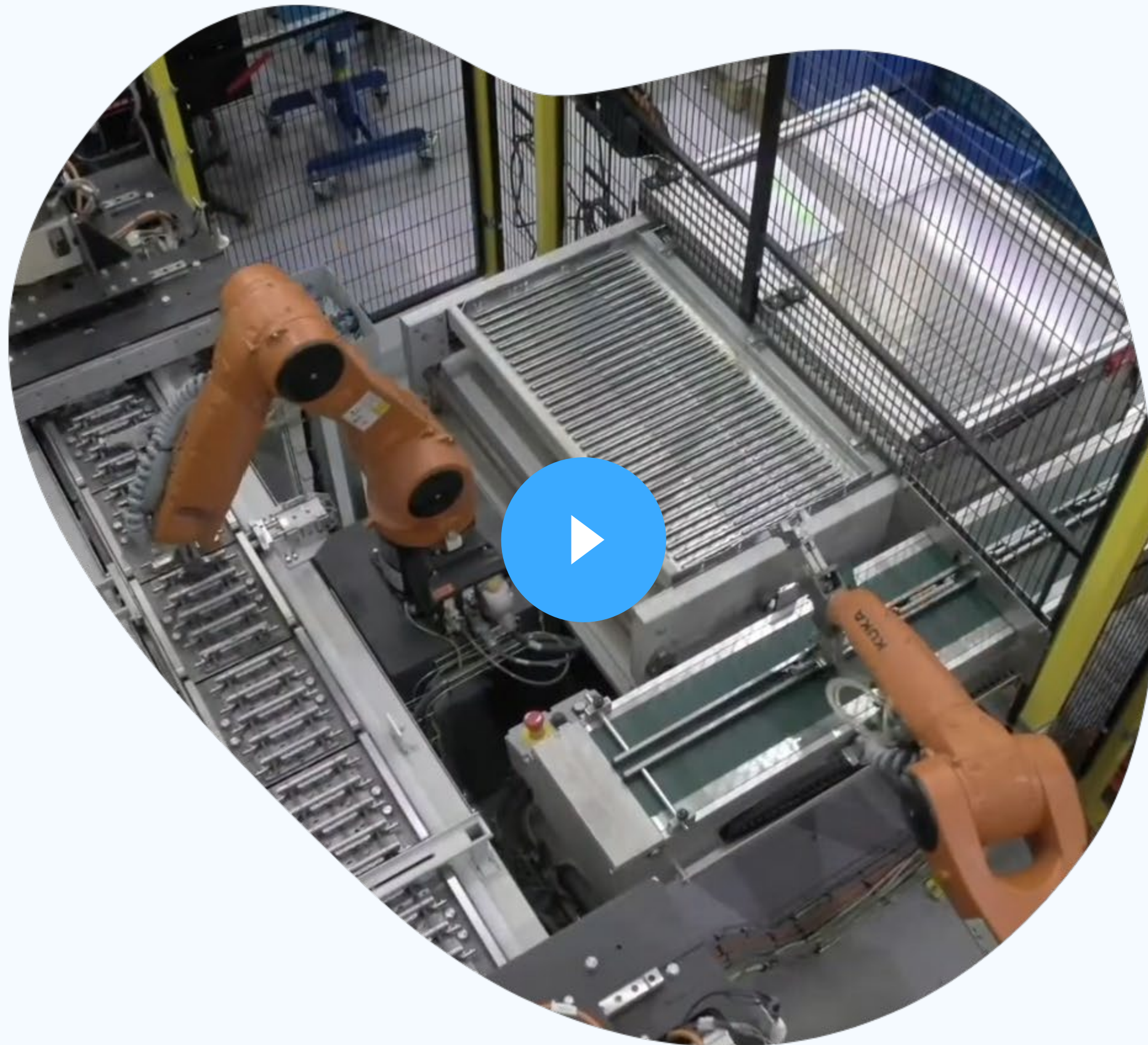


PLASTICS INDUSTRY

IMPLEMENTATION OF IPD TECHNOLOGY IN MOLD PLASTIC DECALS

- TRANSPORT
- MANIPULATION
- INSERT PLACEMENT
- CUTTING
- QUALITY CONTROL





FINAL ASSEMBLY LINE

METALLIC LOCK SYSTEM

- HANDLING
- WAREHOUSE
- MANAGEMENT
- ASSEMBLY
- REVITING
- QUALITY CONTROL
- INDIVIDUAL PACKAGING
- CODING
- ASSEMBLING PARTS
- FINAL PACKAGING

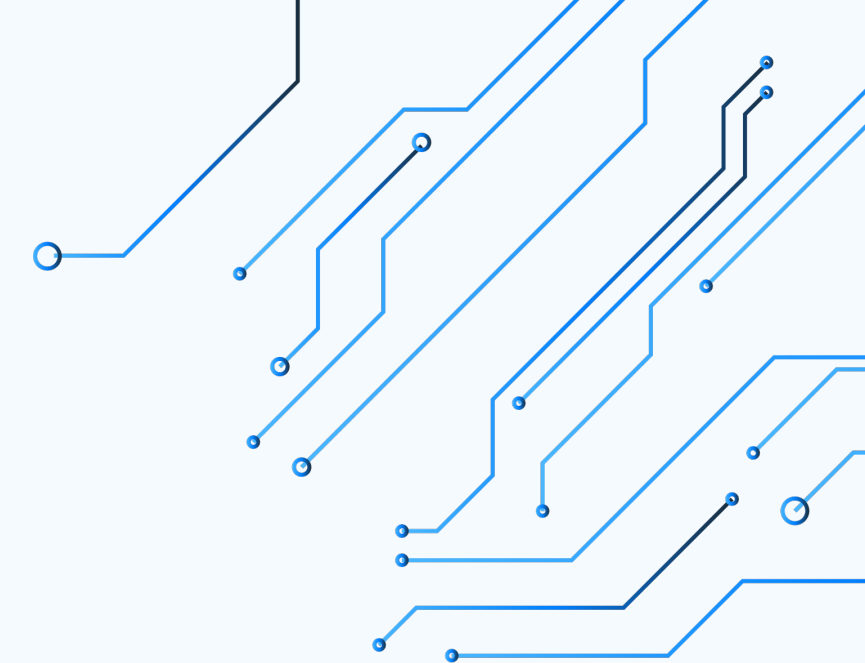


CNC MACHINING LINE

AUTOMATIC LINE FOR MASS PRODUCTION

- PART HANDLING
- CNC MACHINE FEEDING
- WASHING
- QUALITY CONTROL

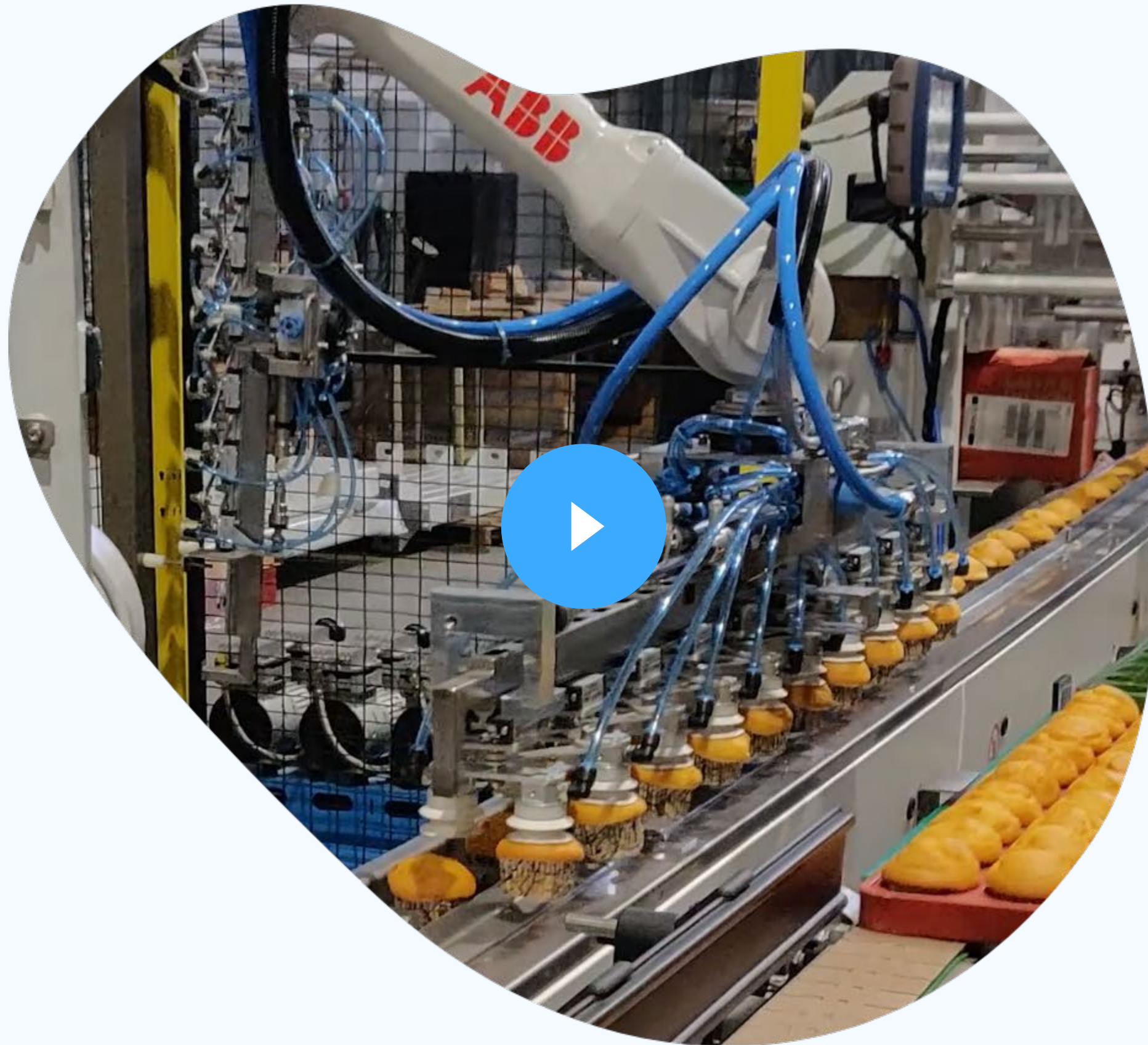




END OF LINE

AUTOMATIC MANAGEMENT OF 4 LINES

- ELEVATION
- HANDLING
- PALLETIZING
- PACKING



FOOD INDUSTRY

PICK & PLACE ROBOTIC CELL

- HANDLING OF MUFFINS FROM TRAYS TO "FLOWPACK" PACKAGING MACHINE
- AUTOMATIC TRAY MANAGEMENT
- RETURN LINE



CERAMIC INDUSTRY

- TRANSPORT
- MANIPULATION
- PALETIZING
- PACKAGING – MULTI-PIECE PACKS





WOOD INDUSTRY

FULL AUTOMATIC LINE

- PARTS FEEDING
- PREPARATION
- PAINTING
- DRYING
- COOLING
- SANDING
- PAINTING





METALWORKING INDUSTRY

AUTOMATIC CNC TUBE BENDING MACHINE FEEDING

- MANIPULATION
- QUALITY CONTROL
- WRAPPING

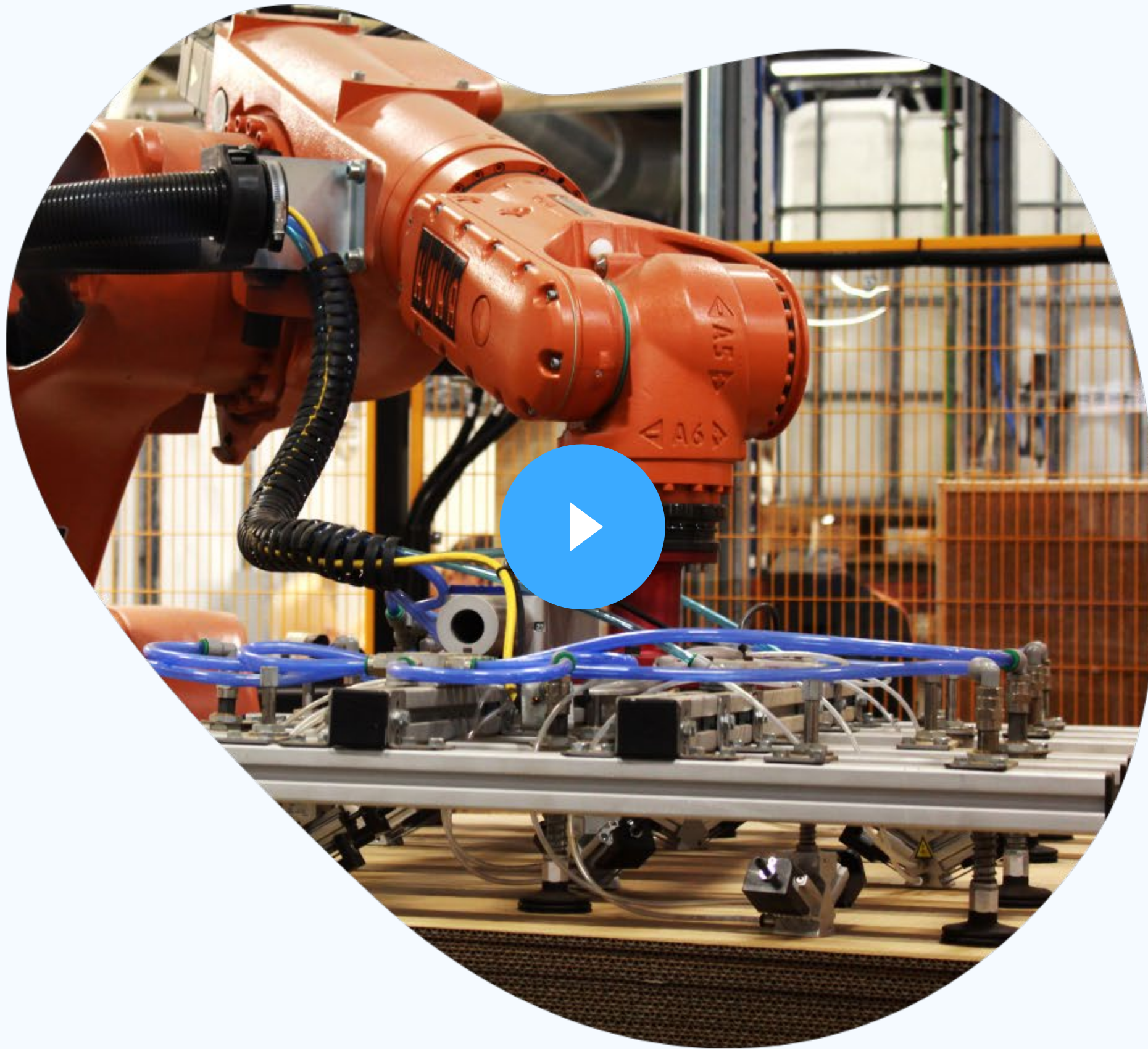




CORK INDUSTRY

AUTOMATIC FEED CELL+ PALETIZATION

- MULTI-FUNCIONAL GRIPPER






CONTACTS

**A TEAM OF PROFESSIONALS ALWAYS
AVAILABLE TO HELP**




CONTACTS

 Rua Academia FC Famalicão, nº58
4760-482 Esmeriz

 (+351) 252 318 499

 geral@esirobotics.com

Commercial Department

 Eduardo Ferreira
(+351) 918 810 666

 eduardo.ferreira@esirobotics.com



esirobotics.com