AUTOMAZIONE È INNOVAZIONE ANCHE PER LA TUA AZIENDA

VAUTOMATION
ADVANCED TECHNOLOGY

Choose our automation. Go with confidence.

The most advanced technologies in the field of industrial automation, at the service of businesses.

Stay in Touch

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Or call us at:
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Our Headquarters:
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Our Service

Industraial Robotics

We are capable of designing and building highly customized robotic lines and cells, created in accordance with the specific needs of the client.

Motion Control

We produce motion control systems capable of managing the movement of industrial machine axes in an advanced way, ensuring high production efficiency.

Vision System

We design and produce vision systems capable of providing guidance for the production process through the processing and analysis of images captured from the surrounding environment.

SCADA & Industry 4.0

We design and produce vision systems capable of guiding the production process through the processing and analysis of images captured from the surrounding environment.

Revamping & retrofit

We can provide consultancy on revamping or retrofit interventions based on the wear condition of the plant and the required production.

Electrical Design

Thanks to specific know-how, developed through years of research and training in the electrotechnical field, we are able to independently produce electrical panels for a variety of automated.

Preliminary Designs

We offer advanced CAD software design to optimize the efficiency and safety of plants. We simulate and resolve critical issues before production. We ensure transparency regarding costs.

Mechanical Design

We design and manufacture custom mechanical components to meet clients' needs, combining experience and innovation. We offer solutions that combine precision, durability, and efficiency.

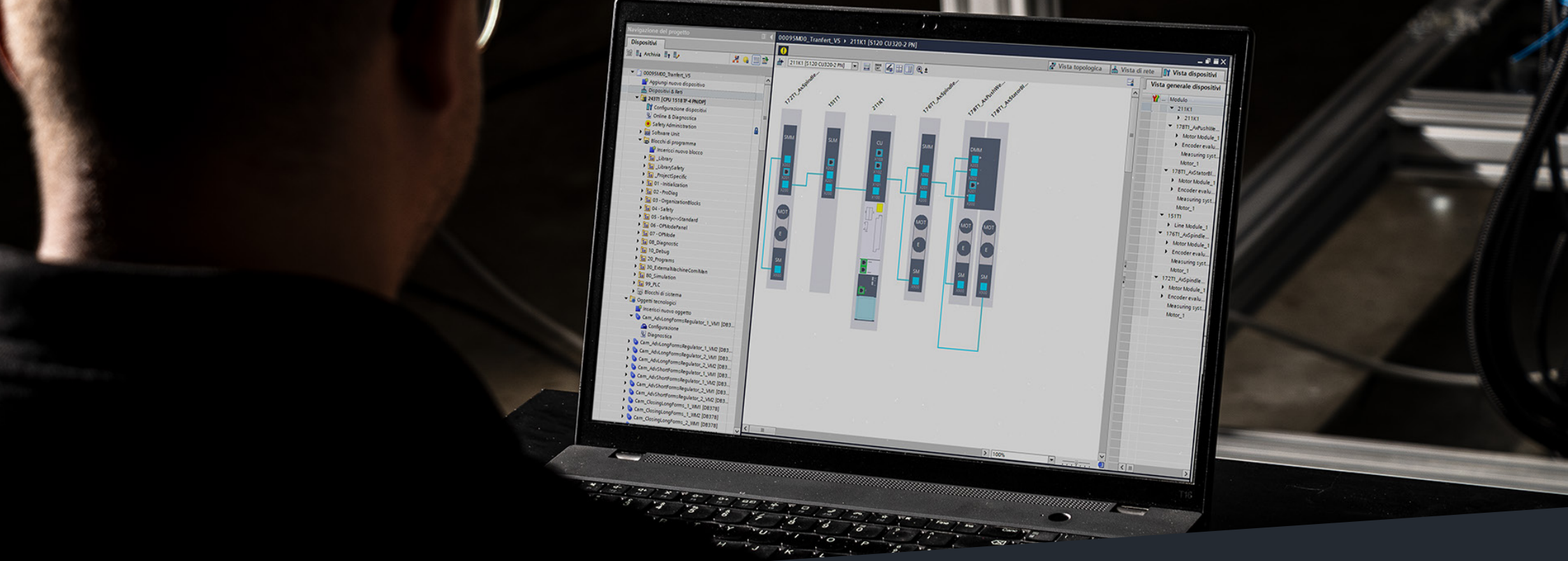
Our Brand Partners

Industrial Robotics

At Vautomation, we leverage the latest robotic technologies to enhance efficiency and precision in assembly, handling, and packaging operations. We are capable of designing and building highly customized robotic lines and cells, creating them according to the specific needs of the client while placing a strong emphasis on technological innovation, engineering creativity, attention to detail, and component quality.

At the service of your production flexibility

Thanks to our industrial robotics solutions, we ensure the automatic retooling of production lines, paving the way for randomized production through automation. In this way, we enable you to overcome the rigidities of the past by achieving greater production flexibility, whether for small or large batches.



Motion Control

Our motion control services are powered by electronic cams. These represent a significant advancement over their “mechanical cam” counterparts, as their electronic control ensures greater flexibility and precision, and—most importantly—rapid customization through reprogramming. Essentially, electronic cams enable advanced control of industrial machine axes, ensuring high efficiency and production accuracy.

Your plant, from A to... V

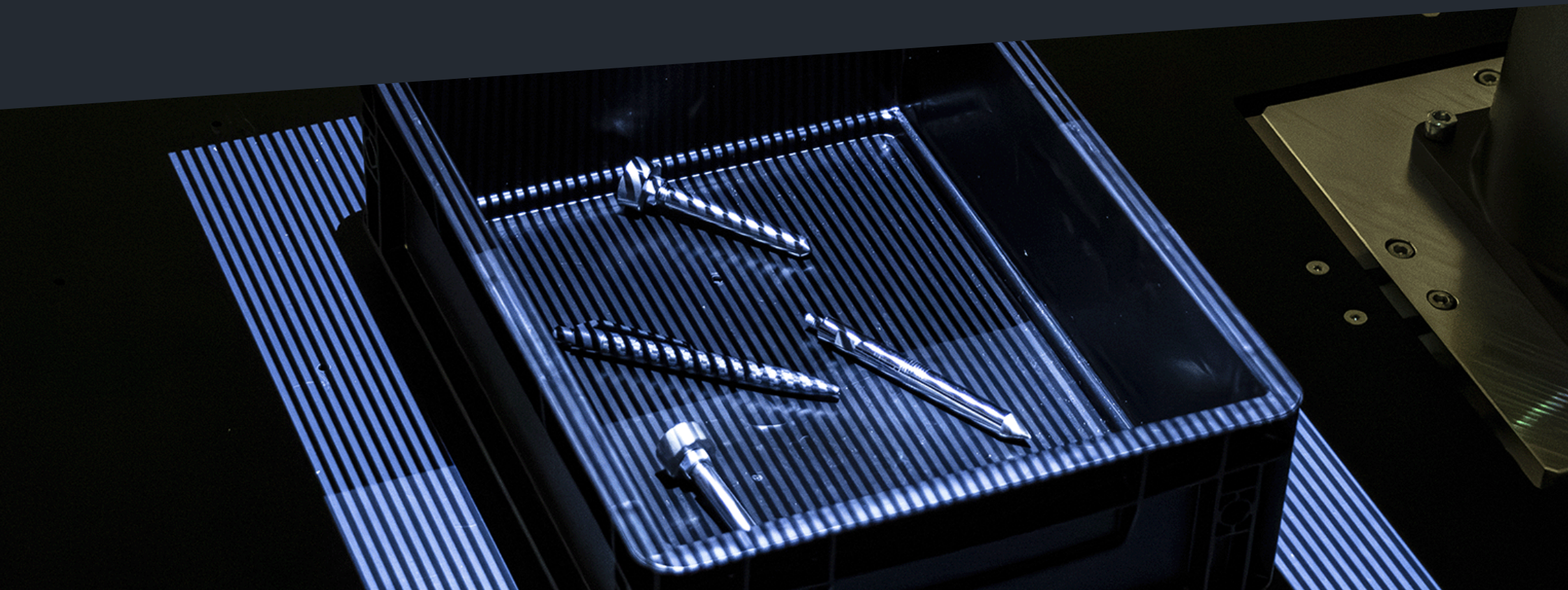
Our distinctive strength, whether in developing a motion control system or in any of the services we provide, lies in our ability to independently design the complete plant, offering clients expert consultancy. We manage project development starting from the preliminary study, analyzing the main objectives, and then proceed to define the most suitable technological solutions, always taking into account the cost-benefit balance.

Vision Systems

A vision system serves as a key element for guiding the production process by processing and analyzing images captured from the surrounding environment. For certain continuous production processes, such as textile manufacturing, printing on paper or plastic, or glass and plexiglass production, this technology makes it possible to detect defects or material shortages. It is therefore easy to understand how the vision systems we offer—and integrate within industrial automation—enable the implementation of quality control on the final product, fully aligned with production requirements.

The Bin Picking Revolution

In addition to supervising production processes, a vision system can also be integrated into bin picking operations. In these specific applications, the system is capable of autonomously identifying a series of products, randomly arranged within a container. By processing and analyzing the captured images, it can then communicate the coordinates of each individual product to a robot, thereby enabling full automation of the process.



Pre-Project Studies

The use of CAD software also allows us to design the spatial layout of elements within the robotic cell, through a careful analysis of the positioning of robots, machines, and safety devices. This ensures maximum efficiency and safety of the plant.

Virtual Commissioning

Through a process based on software systems capable of simulating the behavior of an automated line within a virtual environment, we can identify and resolve potential issues in advance, reducing production time while improving product quality and availability. Additionally, the testing phase allows us to verify the effectiveness of safety systems and, if necessary, enhance the working conditions for the personnel operating the plant.

Quoting and Budgeting

In the initial phase, we calculate and accurately define the costs associated with the design, procurement of components, construction, and installation of the automated plant. This also includes estimating operational and maintenance costs over time, ensuring maximum transparency for our clients and allowing us to plan every aspect of the project in detail.

SCADA & Industry 4.0

Today, every smart factory integrates technologies that fall under the Industry 4.0 paradigm. Among these, SCADA systems play a crucial role. They provide control solutions designed to supervise complex processes in real time. The SCADA systems we offer deliver numerous benefits, including real-time process monitoring, process optimization, early anomaly detection, reduced downtime—and costs—through predictive maintenance, and enhanced safety through centralized supervision and control.

Industry 4.0: A Necessary Evolution

A smart factory, a concept increasingly applied to the industrial processes of many companies today, is built on the use of advanced digital innovations, including IoT systems, industrial robotics, augmented reality, AI, and cloud computing. These technologies not only create a highly automated and interconnected production environment, but also enable companies to monitor machine status in real time, predict and prevent failures, optimize workflows, and customize production according to specific customer requirements.

Revamping & Retrofit

Automated plants are subject not only to production stress but also to continuous technological advancements, which sometimes necessitate upgrades or replacements to ensure optimal performance, reduce inefficiency risks, or even convert to a different type of production. Leveraging our experience, we offer consultancy on revamping or retrofitting interventions, based on the plant's wear condition and the specific production requirements.

Industry 4.0 to 5.0: Where Technology Embraces Sustainability

Our philosophy is centered on embracing Industry 5.0 and offering it to the companies that rely on us, with the aim of reducing energy consumption and promoting energy saving. This represents a true evolution of industrial production, based on the convergence of technological innovation and environmental sustainability. In this context, the implementation and development of technologies such as artificial intelligence, the Internet of Things (IoT), and data analysis through smart sensors and advanced monitoring systems optimizes production processes and enhances energy efficiency.

Electrical Design

We are capable of providing high-quality electrical design services tailored to meet the specific requirements of our clients. Thanks to specialized expertise gained through years of research and training, our work also focuses on the design and development of electrical panels for a wide range of automated systems, including machine tools, material handling lines, or any equipment requiring a control panel for automation management.

Electrical Panels Perfectly Aligned in Every Detail

Our electrical panels are designed and built using commercial enclosures according to the client's specific requirements, available in painted sheet metal or stainless steel. Furthermore, to ensure the highest level of safety for users, each panel is provided with a certificate of compliance with current regulations, guaranteeing adherence to the strictest construction standards.

Mechanical Design

SWe are capable of designing mechanical components and/or systems to meet the specific needs of our clients. Thanks to specialized expertise acquired through years of research and training, we can develop mechanical units suited to a wide range of applications in the field of industrial automation.

Detail is Our Concept

Our technicians, using the most advanced 3D/2D modeling software, are capable of designing and bringing to life mechanical systems that meet a wide range of end-customer requirements. By paying attention even to the smallest details, we strive to deliver solutions that ensure the best possible balance between durability, efficiency, and ergonomics.

Visit Our
Website

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