

Automating the future thanks to STUDIO 1 AUTOMAZIONI INDUSTRIALI

As companies like STUDIO 1 AUTOMAZIONI INDUSTRIALI are consistently reminding us, robotics and automation are hardly just a random bet on the future. Instead they represent today's competitive advantage. Should it come as any surprise, therefore, that a whopping 97 percent of companies that adopted automation are believed to have scaled rapidly ever since - precisely 'because' they introduced it?

THE STRATEGIC EDGE OF INTEGRATED AUTOMATION

Over time, industrial automation has led to various developments, mostly facilitated by the ever-evolving relationship between humans and machines and by digitalization. Integrated automation specifically involves a type of vertical or horizontal interconnection: while the former involves the relationship between the production chain and business sectors, the latter involves the interaction

between machines. Furthermore, all information and management systems related to the production process are integrated, allowing the various data to be monitored, digitized, and made immediately available. Integrated automation also enables improvements in processes and company production thanks to the collaboration between robots and the environment. New integrated automation techniques are also available, specifically for those seeking optimal and innovative solutions.





HUMAN-MACHINE COLLABORATION AND EVOLVING WORKFLOWS

To ensure even more effective integration and business improvement, both machines and human operators must complement each other, and all data must be processed securely. Furthermore, the work environment must ensure safety, and human operators must not perform back-office tasks, but rather creative tasks that can provide added value for the company. Robots, on the other hand, are designed to perform processes that are very demanding for human operators, involving repetitive and constant procedures, which often lead to a higher error rate. They can also be used in the logistics sector to address issues related to hazards. Integrated automation can also involve the use of innovative and relatively recent technologies, and not just the use of robots for the most demanding and dangerous physical tasks. Furthermore, all data, usually related to production status and business processes, can be guaranteed in real time. Integrated automation also offers various benefits,

such as optimizing business processes, eliminating waste, and offering a higher-quality product or service to end consumers. Workflows aimed at improving the company are also implemented: it is often mistaken to think that leaving everything unchanged within a company will guarantee an optimal organizational structure, but on the contrary, the company must be modernized to guarantee better products and services to the end customer. The main advantage of integrated automation is time savings: some processes can be delegated directly to technological tools or software,

the machines do the hard work and the humans act as supervisors.

TAILORED SOLUTIONS AND FUTURE-READY TECHNOLOGIES

Studio 1 Automazioni Industriali has designed and manufactured industrial automation since 1985 for several sectors. That long-term experience affords the company extraordinary flexibility today - making it an ideal partner for customers which need tailored solutions that can provide total support for building plants and

equipment: from layout optimization to new equipment and integration of existing stand-alone equipment. Besides the engineering and realization of the mechanical parts, the company's internal department is dedicated to the design and construction of electrical systems and control panels. This includes an R&D department that's dedicated to the development of PC/PLC - HMI software on industrial automation machines, as well as programming anthropomorphic robots. Such software is created ad hoc and customized to each individual machine/system - all based upon important know-how acquired through the creation of multiple special systems jointly with specific needs expressed by the customer. Here Studio 1 Automazioni Industriali offers a complete suite of Industry 4.0 and 5.0 software solutions that are technologically-advanced and can be integrated with any ERP system - all to increase both the efficiency and effectiveness of production processes whilst bearing past experiences in mind and keeping an eye on the future demands posed by leveraging AI.



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