

SADA CAVI and Industrial Automation



A constantly expanding sector

Industrial automation is the use of technologies and systems to **automatically control and manage industrial processes** and **production lines**. Simply put, it involves employing **machines, software** and **robots** to perform tasks that were once carried out manually by humans. The goal is to create a more **efficient, accurate** and **safer** production system, while reducing the need for human intervention.

The benefits of industrial automation:

- **Increased productivity and quality:** Machines can work faster and more accurately, reducing errors and waste.
- **Reduced costs:** Automation can reduce maintenance costs, energy consumption, and labor costs.
- **Improved safety:** Robots can perform dangerous or repetitive tasks that could put operators' health at risk.



- **Greater flexibility:** Automation systems can easily be adapted to produce different types of products or to modify production lines on request.
- **Improved data collection:** Sensors and control systems can gather large amounts of data on the production process, which can be used to improve efficiency and quality.

Industrial automation in Emilia-Romagna

Our region has a strong **manufacturing tradition** and a **robust and diversified industrial ecosystem**, with numerous companies producing machines, components and software for automation. In addition, the region is home to important **research centers and universities** that conduct **training activities** and **innovation in the sector**: the region's universities, in particular, work closely with companies to develop **new technologies and innovative solutions**.

Emilia-Romagna is home to several **industrial clusters** specializing in automation, such as the mechatronics **cluster in Modena** and the **packaging cluster in Bologna**.

Industrial automation in Emilia-Romagna is therefore a growing sector with a promising future.

In this sector the adoption of new technologies such as **artificial intelligence and IoT** will continue to drive the sector forward and create **new opportunities** for companies in the region. For this reason, in recent years **SADA Cavi** has specialized in supplying **automation cables** and has quickly established itself as one of the most effective companies in the sector, thanks to its continuous **work in research, development, and technical support**.



SADA CAVI and Automation

A **warehouse** with few equals in Europe, **transportation services** and the long-standing cooperation with major national and international suppliers make **the company a leader** in automation cable supplies, guaranteeing a **precise and qualified service** capable of satisfying all customers, from **large enterprises** to **medium/small** companies in the automation sector.

This has favored the **implementation of the most advanced technologies** for order preparation, such as:

- A **fully automated processing plant**, developed in a **self-supporting vertical warehouse** and a large **coil stock** guaranteeing delivery within **24/48 h**.
- Systems for the optimization and control of warehouse logistics processes using innovative technologies, based on machine vision systems: **WMS +RTLS**.
- Digital replication of the warehouse through **DIGITAL TWIN TECHNOLOGY**, to always ensure a three-dimensional view of its contents online.

UL/CSA Regulations

The North American market in the industrial automation sector is steadily growing, and SADA Cavi continues to design and develop systems to better manage all **UL/CSA compliant** cables, providing the customer with a compliant product throughout the production process.

SADA CAVI has designed, **built, and installed a new automated warehouse** capable of handling plywood and wooden coils.

The system is used exclusively for **cutting (respooling) cables** to UL/CSA standards and **eliminates errors** in the normal cable preparation process,



since certification requires that a UL/CSA label always be present on the cut, guaranteeing the traceability of the product and its manufacturing process.

SADA CAVI S.p.a. has achieved UL Processed Wire - Respooled certification. Whenever a standard cable length is reduced in square footage through cutting, UL Processed Wire - Respooled comes into effect.

This certification requires that a UL label is always present on the cable to ensure **traceability of the product** and its **manufacturing process**. Periodic inspections by the agency ensure **procedural correctness** over time.

SADA Cavi Catalog

SADA Cavi's catalog dedicated to the **Industrial Automation** sector is one of the **most comprehensive in the industry**, and thanks to the capacity of the warehouse, delivery times are unbeatable.

Here are some types of cables available:

OIL RESISTANT CABLES FIXED INSTALLATION - CE

- Multicore power and control cables for static/fixed installation, with outstanding resistance to industrial oils.

LIYY - LIYCY CABLES FIXED INSTALLATION – CE

- Fixed/static installation cables for signal transmission control.

UL/CSA SINGLE CORE CABLE

- Single core PVC cables for wiring.

OIL RESISTANT UL/CSA CABLES FIXED INSTALLATION

- Multicore UL/CSA fixed/static installation for power and control, with outstanding resistant to industrial oils.



OIL RESISTANT MTW TC-ER UL LISTED CABLES FIXED INSTALLATION

- Multicore MTW TC-ER UL LISTED fixed/static installation for power and control, with outstanding resistant to industrial oils.

DYNAMIC INSTALLATION CABLES

- Multicore power and control cables for static/ fixed installation, with outstandig resistance to industrial oils.
- Multicore MTW TC-ER UL LISTED dynamic installation for power and control, with outstanding resistant to industrial oils.

INVERTER - EMC - BRUSHLESS CABLES

- Multicore shielded fixed/static installation cables for inverter.
- Multicore EMC shielded UL/CSA cables fixed/static installation oil resistant.
- Multicore shielded servomotor cables fixed laying resistant to industrial oils to UL/CSA standards.
- Multicore brushless shielded UL/CSA cables fixed/static installation oil resistant.

BUS AND ETHERNET CABLES

- **FIXED INSTALLATION**
Cables for serial digital communication systems (Fieldbus) for fixed installation.
- **DYNAMIC INSTALLATION**
Cables for digital serial communication systems (Fieldbus) for dynamic installation.

OIL RESISTANT UL/CSA CONTROL - ENCODER - RESOLVER AND MEASURING SYSTEMS CABLES DYNAMIC INSTALLATION

- Cables for connection Encoder - Resolver and measurement systems Siemens®, Heidenhain®, Bosh Rexroth or equivalent suitable for machine control and performant against electro-magnetic interferences..
- Cable for connections dynamo tachimetry ul/csa.

[Browse the complete catalog on the website](#)

SPS Italy 2024

Do you want to learn more about our products for Industrial Automation?
Our **salespeople** and **technicians** are waiting for you at **SPS Italia**, a trade show dedicated to automation and digital for Industry, to be held in **Parma, Italy, May 28-30, 2024**.

Stop by and visit us **at Hall 05 booth B014!**



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 **sps**
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28 – 30.05.2024
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SPS friends card

Innovativa per vocazione

La fiera dell'automazione e del digitale per l'industria intelligente e sostenibile

Ti aspettiamo dal 28 al 30 maggio alla fiera SPS Italia **Pad. 05 stand B014**

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