Every industrial automation sector can find a valuable partner in Cannon Automata. Thanks to the join of hardware, software and skills acquired over the years, Cannon Automata proposes applications designed to meet various market needs.

**APPLICATIONS**

**UNRESTRICTED QUALITY CONTROL.**

Hardware and software for industrial automation and solutions for specific user applications.

**REMOTE MONITORING & ASSISTANCE**
Control systems dedicated to data collection and remote monitoring, control, diagnostic for plant and machinery.

**MOTION & ROBOTICS**
Solutions for motion control, cyclic synchronization of axes and management of complex movements.

**MACHINE CONTROL AND PRODUCTION**
Application for the control of machines and manufacturing processes, to monitor and verify quality and system variables.

**PREVENTIVE MAINTENANCE**
Condition monitoring application for collection, acquisition and analysis of plant and process variables over the time.

**ENVIRONMENTAL MONITORING**
Solutions for continuous measuring and registration of environmental parameters.

**ENERGY EFFICIENCY**
Systems for the control and the optimization of the energy consumption for large and small systems.
REMOTE MONITORING & ASSISTANCE
CONTROL SYSTEMS DEDICATED TO DATA COLLECTION AND REMOTE
MONITORING, CONTROL, DIAGNOSTIC FOR PLANT AND MACHINERY.

The access to the system without being present in the plant production, is a need required in different business areas. Automata Remote Desktop is the specific solution that remove all restrictions related to distance between the user and the existing machinery inventory of the plant. Automata Remote Desktop is the specific application of remote monitoring and assistance for plant and machinery developed with different connection mode: Emulator & Debug, Supervision and Remote control. Flexible, suitable for different industrial sectors, easy to configure and install.

Others foundamental aspects:

- **Efficiency in Safety**: allows to define different safety levels in remote view; in emergency situation the local user can easily disable the Remote Control changing the variables of the system.
- **Sync Options**: allows to define the types of data exchange mode with HMI panel. The remote user can select the options that Automata Remote Desktop can acquire and update from the system: Data Object, Messages, Trends, Settings.

- **Remote Recovery Data**: alarm, trend and data recorded can also be displayed and downloaded by remote view. In particular it is possible to select the categories of information.

**Industrial advantages**

- EASY INSTALLATION
- HIGH SAFETY
- FLEXIBLE
- ADDITIONAL SOLUTION
- ASYNCRHONOUS
EMULATOR & DEBUG
Simulates Automata HMI interface in debugging mode during the configuration of the project.

SUPERVISOR MONITORING
Allows the surfing through the pages with no interfaces on local user activities. The remote user can display and check the variables of the system without changing them.

REMOTE CONTROL
Allows surfing through the pages. Checking the configuration and settings the parameters.
Robotics and motion management takes, day after day, a dominant role in the world of industry. Flexibility in the programming activity is a key element and a fundamental aspect for the competitiveness of manufacturing companies. Typically, today’s robot program development requires the knowledge and preparation of all the paths that will be called during the plant life. As alternative, program modification requires the robot being in manual mode thus stopping the line for maintenance. Cannon Automata offers and provides to the market specific and innovative solutions of motion control and industrial robotics for all industries and business areas, overtaking all these limitations with intuitive and effective software, available directly on the operator panel (HMI).

**Industrial advantages**

- EASY INSTALLATION
- FLEXIBLE
- HIGH SAFETY
- AVAILABLE FOR THE MOST POPULAR BRAND
RPI – ROBOT PLANT INTEGRATION

Robot Plant Integration (RPI) is an intuitive and effective software, available directly on the operator panel (HMI). With the new RPI system it is possible to create and modify robot path and robot tool activation by simple clicks and by drawing the points of the path direct on the touch-screen, without expertise people or complicated CAD software. More benefits come from the possibility to have real-time information during the robot programming: see the robot paths and compare them with models or images on the screen, define actions with simple clicks inside the robot paths and insert synchronization events for other machines present in the line. RPI is available for the most popular robot brands.

ROBOT AXES INTERPOLATION

Specific programming and motion application for different robots types: Cartesian, Scara, Picker, Articulated.
Machine control and manufacturing processes is a core aspect for Cannon Automata. Our solution, flexible and suitable to be integrated in various industrial installations, enables to increase the productivity level of the individual machine, line and plant and achieve precise and accurate control, real-time knowledge of system variables, trends and alarms, with a net reduction of costs and production times.

All solutions in Machine Control and Production make use of the most used communication interfaces as CAN, Modbus, EtherCAT and SERCOS; especially for the last one, which over the years we have acquired the role of world leader for components and its implementations in “devices” third parts.

**Industrial advantages**

- SIMPLE INTEGRATION
- HIGH QUALITY
- HIGH EFFICIENCY
- HIGH PRODUCTIVITY LEVEL
- MANAGE OF ALARM AND TREND
- CONTINUOUS IMPROVEMENT OF PROCESS
- FLEXIBLE FOR DIFFERENT PRODUCTIVE SECTORS
Complete automation solutions for machine, line or entire packaging plant, which enabled customers to achieve excellent results in terms of production efficiency, product quality and equipment reliability.

Scalable applications, adaptable to different lines and machines for all stages of the wood process.

Automation solutions for plastic process able to manage with high accuracy all the variable of the process for machines with different tonnages and used for different processing methods: Injection Molding, Thermoforming, Blow molding and Extrusion.

Production Monitoring System is a Windows desktop application which can connect to an external industrial PC and archive on a local database all end process data, alarms and trends.

Measured of all variables of production activity: units monitoring, production facts, curves analysis and machine information.
In the industrial and civil sector, maintaining a high level of reliability and productivity, are primary strategic assets for the achievement of business success and the improvement of the value and competitiveness of enterprises in the market. The term “preventive maintenance” has become for the industry and not only, meaning of safety, preservation, protection and efficiency of the existing machinery inventory, assuming a fundamental role, in order to optimize the various activities along all stages of the process.

Cannon Automata solution generates many benefits thanks to a precise and proper relationship between the measured value and the remaining life of the piece. This generates a net reduction of the breakdown, setup time, breakdown caused by an earlier failure, obtaining an optimization of the service and of the spare parts, with concrete and actual economic results.

**Industrial advantages**

- OPERATIONAL AVAILABILITY
- BREAKDOWN & SETUP REDUCTION
- HIGH SAFETY
- COST REDUCTION
- ENERGY EFFICIENCY
- HIGH MONITORING QUALITY
Maintenance diagnostic in industrial context: manufacturer, part number, tech characteristics, lifetime, troubleshooting.

Maintenance diagnostic for specific solution: manufacturer, part number, tech characteristics, lifetime, troubleshooting.

Train platforms: acquisition, collection and storage for better management of the transport means and a reduction of maintenance costs.
Cannon Automata proposes a range of applications and solutions for environmental monitoring, suitable for different business area, in terms of comfort and health for the consumer to ensure maximum safety for people and minimize the impact on the environment according to international and national laws.

**Industrial advantages**

- EASY INSTALLATION
- ADDITIONAL SOLUTION
- HIGH MONITORING QUALITY
- EDITABLE
- SMART PROGRAMMING
- GREEN ECONOMY AND GREEN PLANT
AMEC - BOILER EMISSION MONITORING SYSTEM
AMEC is the emission monitoring system of boilers for new or existing installations, in accordance with national and international regulations. Measures: O₂, CO, CO₂, NOₓ, SOₓ and Flue gas temperature.

ZERO - GAS LEAK DETECTION
Zero is the solution for continuous control and real time detection of possible F-gas losses.

SUN VISOR - MANAGEMENT OF PHOTOVOLTAIC MODULES
Sun Visor is the professional solution for all installations, new and existing, with components specially designed for solar applications. A complete offer, from the management of photovoltaic modules through the enhanced performance of up to plant monitoring from worldwide locations.

WATER TREATMENT - ANALYSIS AND MONITORING OF WATER TREATMENT
Solution dedicated to the management, collection, analysis and monitoring of waters treatments. The measured of values correctly and accurately, ensuring high reliability and optimum control. Application area: Industrial, Civil and Tertiary.
ENERGY EFFICIENCY
SYSTEMS FOR THE CONTROL AND THE OPTIMIZATION OF THE ENERGY CONSUMPTION FOR LARGE AND SMALL SYSTEMS.

EDEA is a monitoring system for industrial energy efficiency created to meet the national and international laws issued in the energy field. EDEA is developed to satisfy the energy requirements in terms of energy audit and energy analysis, allowing to know and keep under control the consumption of energy, gas and water flow, create a mapping of the inefficiencies of systems and processes and implement efficiency improvements. A primary kit for ESCO and Industrial plant. The offer for Energy-Audit and Energy-Analysis includes:

- An Energy Analyzer in conjunction with the F3 control system allows precise monitoring of consumption of each plant or production area.
- Remote Access & Data Gateway Manager: managing in the same time Energy Analyzer devices installed on site, collects the data, records and makes it available on “EDEA Client” to enable analysis by the users.
- Application Software: view in an intuitive and simple values recorded, graphics and consumer trends.

ESCO & Industrial advantages

☑️ EASY INSTALLATION
☑️ ADDITIONAL SOLUTION
☑️ HIGH MONITORING QUALITY
☑️ EDITABLE
☑️ ENERGY EFFICIENCY
☑️ PRECISE ALLOCATION OF COSTS
☑️ PREVENTIVE MAINTENANCE SOLUTION
☑️ REMOTE MANAGEMENT AND REMOTE CONTROL
☑️ GREEN ECONOMY AND GREEN PLANT
☑️ INDUSTRY 4.0
ENERGY - MONITORING SYSTEM OF ENERGY CONSUMPTION FOR COMPANIES

The innovative monitoring system of energy consumption for companies.
The energy value measured are: energy & power active, reactive, apparent power, voltage, current, power factor & harmonic distortion.

WATER - MONITORING SYSTEM OF WATER CONSUMPTION

Management and monitoring system of water parameters in order to optimize consumptions allocation: flow velocity and volumetric flow rate and temperature.

GAS - MONITORING SYSTEM OF GAS CONSUMPTION

Management and monitoring system of gas parameters in order to optimize consumptions allocation: volumetric flow rate.

AUXILIARY - MONITORING OF ENVIRONMENTAL PARAMETERS

Management and monitoring of environmental parameters and process: temperature, humidity and lighting.
Every industrial automation sector can find a valuable partner in Cannon Automata. The concept of industry 4.0 is now a priority for all those companies, from the manufacturing to the processes undertaken to improve efficiency and effectiveness. Cannon Automata offers innovative and tailored solutions for plant intelligence to enhance the productivity and profitability of the companies.

The integration of industry 4.0 applications generate different advantages, both in terms of process and project:

- **EFFICIENCY**
- **COST**
- **FLEXIBILITY**
- **CROSS SOLUTION**
WITH YOU, ALL OVER THE WORLD.

As part of a group, Cannon Automata plays an international role in several countries. Two headquarters, Italy and Germany, two branch offices, China and Brazil and a network of sales representatives and technical assistance agencies around the world, directly manage local projects, ensuring a fast and prompt response to their respective geographical areas. Important requirements for a range of products and services that go beyond simply creating and delivering high performance solutions. The sales and service network of Cannon Group is further expanded around the world, ensuring direct contact points in Africa, America, Europe, Oceania and East.
**PRODUCTS**

Technological components for industrial automation.

Cannon Automata’s products quality is a matter of fact. Products are capillary tested one by one. Thanks to a fully equipped environmental test chamber, each solution implemented is subjected to the most rigorous stress conditions and to electrical, environmental and life cycle screening. A sophisticated simulator also allows a true reflection of the system behaviour that could be tested at the factory.

[www.cannonautomata-products.com](http://www.cannonautomata-products.com)

**ENGINEERING**

Services for engineering projects.

35 years of experience in the automotive, energy, oil & gas and water treatment sectors enable Cannon Automata to present itself as complete and perfect partner for the development of industrial engineering and process projects.

[www.cannonautomata-engineering.com](http://www.cannonautomata-engineering.com)