

A NEW INDUSTRIAL AUTOMATION



part of  **IEMA** group



IEMA

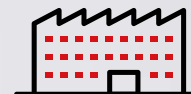
Global Strength, Specialised Expertise

Since 1979 has grown into a solid international platform, bringing together companies that share the same vision for quality and reliability.

Thanks to its global footprint, the Group supports major industrial players with consistent performance, continuity and a trusted, long-term approach.



 **800 +**
employees

 **70.000**
m² of plants

 **280 mln**
turnover

 **IEMA^{US}**

 **IEMA^{CA}**

 **IEMA^{ME}**

 **IEMA^{WU XI}**

 **HuEvo**
Human Evolution

IEMA^{TECH}

 **EPSOL**
ELECTRIC POWERING SOLUTION

 **COSTAL**
SOFTWARE ENGINEERING

 **REVOTEC**
evolution technology

 **DELTAOS**
AUTOMATION ENGINEERING

 **SIGER**
INTEGRITY ELECTRIC

 **Timage**

 **MG Electric**
AUTOMOTIVE RELIABILITY

 **ADUR**
Safety Consulting

 **IMNOVA**

 **KINEMA**
ROBOTICA

REVAMPING CAPABILITIES



We are able to manage all the phases of the project in complete autonomy from the collection of the machine to the subsequent reinstallation at the customer's site, passing through the disassembly, identification and order of the constructive and commercial spare parts, realization of the machine board, diagrams and electrical panel, upgrades, reassembly, integration of size parts, **CE / UL / CSA conformity**, testing and shipment.

Revamping



REVAMPING PHASE

Phase 1 >>>>>



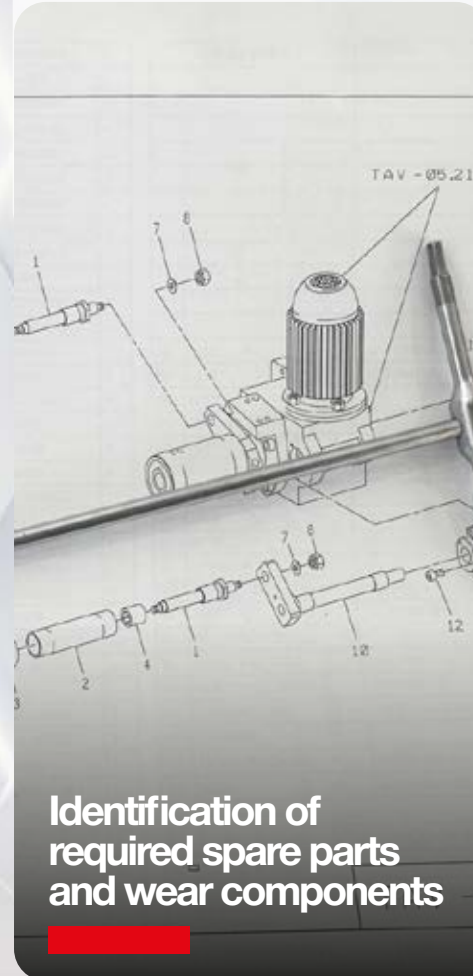
**Disassembly
of the machine and
functional units**

Phase 2 >>>>>



**Technical and
functional analysis
of the machine**

Phase 3 >>>>>



**Identification of
required spare parts
and wear components**

Phase 4 >>>>>



**Procurement
of standard and
food-grade certified
spare parts**

Phase 4 >>>>>



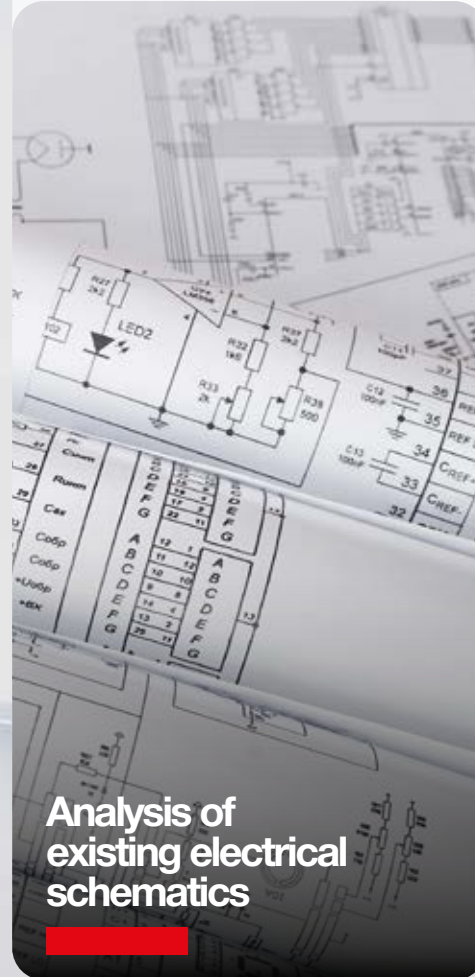
**Sandblasting
and painting
with food-industry
approved coatings**

REVAMPING PHASE

Phase 6 >>>>>



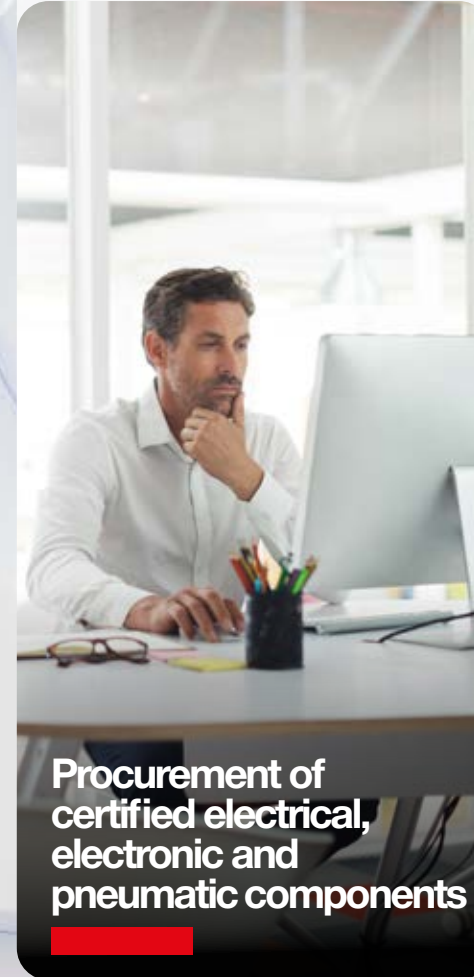
Phase 7 >>>>>



Phase 8 >>>>>



Phase 9 >>>>>



Phase 10 >>>>>



REVAMPING PHASE

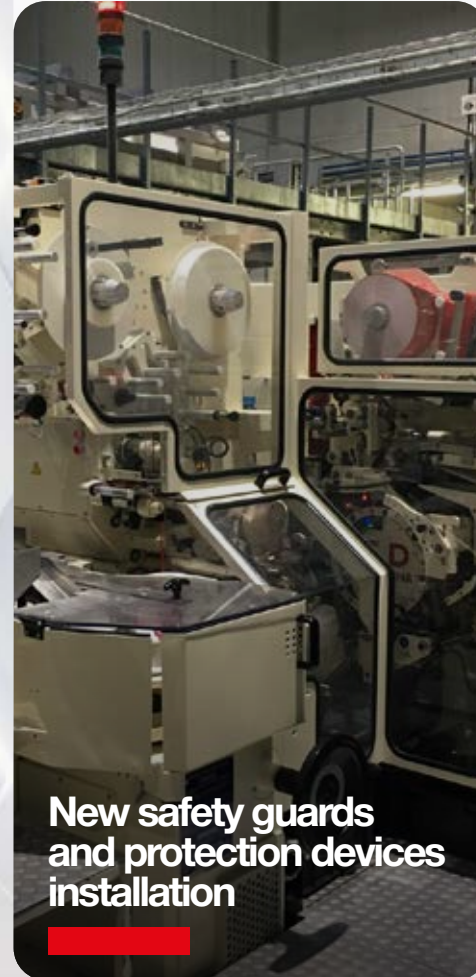
Phase 11 >>>>>



Phase 12 >>>>>



Phase 13 >>>>>



Phase 14 >>>>>



Phase 15 >>>>>



REVAMPING PHASE

Phase 16 >>>>>



Integration of
production data,
operator training
and e-learning
advanced software

Phase 17 >>>>>



Dry test and
internal testing
without product

Phase 18 >>>>>



Production test
and customer
validation (Factory
Acceptance Test – FAT)

Phase 19 >>>>>



Disconnection,
packing and shipment
preparation

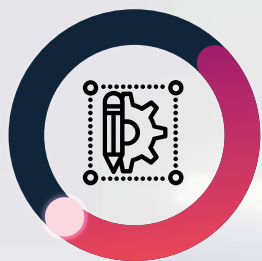
Phase 20 >>>>>



CE / UL certification
and complete technical
machine documentation

MAIN CONTRACTOR

REVOTEC offers the opportunity to rely on a single intermediary for the **management of all automation tasks**: mechanical assembly, electrical design, realization, installation, and assistance.



Hardware design



Software design



Hardware production



System certification



Technical documentation



Spare part catalogue



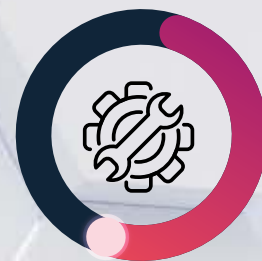
Digital Contents



Technical translation



Risk analysis



Mechanical installation



R&D



Robotic

INDUSTRIAL AUTOMATION SUPPLIER



REVOTEC manages the procurement process, offering excellent and **advantageous purchase terms** thanks to economies of scale generated through **IEMA Group** large volumes.

SIEMENS

Schneider
Electric

BECKHOFF

Rockwell
Automation
Allen-Bradley

OMRON

B&R
A member of the ABB Group

YASKAWA

BOSCH
rexroth
A Bosch Company

CODESYS

MITSUBISHI
ELECTRIC

OMRON

JAKA®

ABB



Schneider
Electric

FANUC



ELECTRICAL & SOFTWARE DESIGN

With the expertise of IEMA group, **over 200 software technicians** covers all areas of industrial automation, guiding customers in their technology choices.

- ▀ PLC configuration
- ▀ Motion Control
- ▀ SCADA
- ▀ MES integration
- ▀ IIOT solutions
- ▀ 3D Vision System
- ▀ Robotics
- ▀ On site installation and tests
- ▀ Aftersales activities



ROBOTIC APPLICATION

Completely customized  **HuEvo** **turn-key robotic island**, performed using AI addicted systems from design to installation, safety certifications, manuals and after sales assistance.

- ▀ Industrial and collaborative robot integration
- ▀ Autonomous Mobile Robots
- ▀ Robotic packaging **end of line** solutions, bin picking operations
- ▀ 3D vision systems and AI



HUMAN MACHINE INTERFACE

HMI can be developed including **E-learning** and **digital training** through the assembly of animations obtained from the 3D model of the machine.

The operator will be leaded in the disassembly operations, adjustment, and assembly related to the setup configuration.

Machine can be connected through hardware and software tools, which are compliant with the most updated **cybersecurity requirements**.

Customized portal to automatize communication between the plant and the **Control Room**, with **historicization of the interventions**.



CONTROL ROOM SERVICE

With remote access, machine suppliers can ensure **24/7/365 connectivity to industrial networks** and individual devices, such as a PLC and HMI, allowing service teams to **remotely manage** equipment at field sites and real time react to operational issues.

Remote access to connected machines makes industrial equipment accessible despite its location, **greatly simplifying and expediting the troubleshooting** and maintenance process.

The job of servicing machines just got much more effective.



DATA COLLECTION, PREDICTIVE MAINTENANCE

We developed a predictive maintenance system, **COSTRADAMUS**, which collects selected data and records related to the functionality of the machine.

COSTRADAMUS and allows the user to perform preventive actions long way before downtime of the machine.

It is indeed a perfect system to keep **tracking of maintenance activities**.

Any kind of device (PLC, HMI, Robot, vision systems, etc.) **becomes accessible for assistance and diagnostics**.



REFERENCE



REVOTEC has **experience** in the following Packaging Markets:

- Chocolate
- Bars
- Toffee/Caramel
- Hard Candies
- Chew/Gums
- Jellies/Marshmallow
- Snacks/Biscuits
- Dragee
- Bottle Filling and Capping
- Soaps
- Home care/Personal care
- Aluminium Caps
- Powder
- Pasta/Rice
- Sugar/Salt
- Others



THANK YOU

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Emirates

Milan

Italy

Toronto

Canada

Wuxi

People's Republic
of China