



INDUSTRIAL EQUIPMENT

INNOVATIVE SOLUTIONS CREATORS



EEI

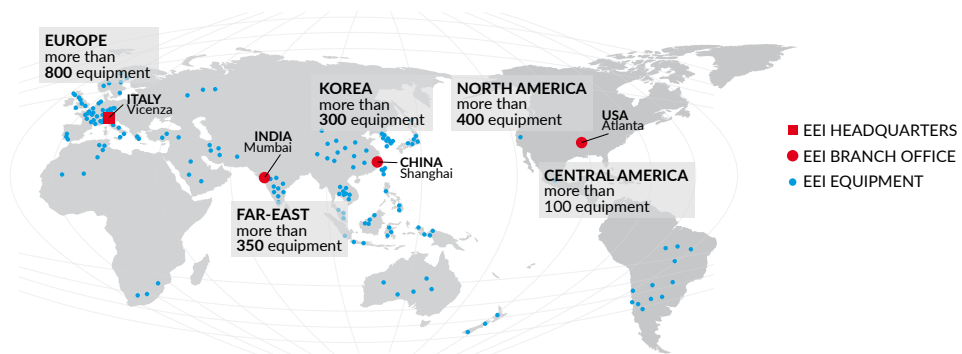
EXPERIENCE, EFFICIENCY, INNOVATION

SINCE 1978 EEI IS A LEADER COMPANY

active in the international market with a background of different and consolidated experiences in power electronics, automation systems and production technologies in many industrial fields.

From experiences of collaboration with the major worldwide manufacturers and the special knowledge acquired, EEI is able to work with quality and expertise in various fields:

- Ropeway systems
- Drive and control of industrial systems
- Static Energy Conversion
- Marine applications
- Research Laboratories



EEI SERVICE AFTER SALES AND TECHNICAL SUPPORT

EEI offers a superior support for the wide range of its products with an effective and professional After Sales Service, with the aim of a full customer satisfaction.

EEI Service can provide a full set of services:

- On-site intervention
- Preventive maintenance contracts
- Spares
- Repairs
- Training





SOLUTIONS FOR INDUSTRIAL APPLICATIONS

EEL designs and manufactures a complete set of products for the power supply and the control of motors and for the static conversion of the energy

DRIVES AND INVERTER

- **DC/AC Drives**
4Q inverters for synchronous and asynchronous motors, especially suitable for multi-motor applications with a common DC link feeder
- **AC/AC Drives**
4Q inverters for synchronous and asynchronous motors, especially suitable for single-motor applications
- **AC/AC and AC/DC Active Front End**
inverters for single-motor and multi-motors application with AFE for the regeneration on to the grid of the energy recovered from the loads
- **DC/DC Drives**
Converters for the driving and control of DC motors

FIELDS OF APPLICATION

EEL developed the best skills in the areas in which it worked: competent engineering, high flexibility and attention to high efficiency and energy saving solutions.

INDUSTRIAL DRIVE AND CONTROL SYSTEMS

The experience gained over the years in collaboration with leading international Companies allowed EEL to stand for a leading position in the sector of drive and control system for industrial applications.

The industrial sectors where traditionally EEL operates:

- Metal wire machining
- Rolling mill
- Systems for cement processing
- Forging Press
- Fan and ventilation system
- Material handling



ITALIAN
POWER
TECHNOLOGY



METAL WIRE MACHINING

With over 2000 systems installed worldwide, EEI is one of the world leaders in the production of systems for this sector.

The experience gained over the years in metal wire machining give to EEI the undisputed leadership, thanks also to the continuous development of innovative electronic systems to improve the mechanical performance standards.

The various systems developed by EEI include:

- Dry straight drawing lines
- Wet drawing lines
- Mixed drawing lines with sensorless control
- Tuting lines for non-ferrous materials with annealing and controlled feed
- Reel-to-reel mill stand lines
- Diffusion heating patenting and brass-plating lines
- Thread, braid and wire lines
- One- or two-twist cabling machines
- Tubular cabling machines
- Wrapping machines, barrel coilers, Bull Blocks.





REVAMPING SOLUTIONS

EEI IS ABLE TO PROPOSE VARIOUS RETROFIT SOLUTIONS FOR AC & DC APPLICATIONS AS:

- WIRE DRAWING MACHINE
- STRAND LINE
- WIRE LINE
- SOFT-START
- DC DRIVE FOR SINGLE MOTOR APPLICATION
- AC DRIVE FOR SINGLE MOTOR APPLICATION



1ST SOLUTION: TOTAL RETROFIT

It consists to replace all old cabinet+control desk with a new complete electrical equipment with big advantage to maintain the same existing mechanical layout of

cabinet and control desk in order to permit customer to reuse power and signal cables in the same connection position.

2ND SOLUTION: PARTIAL RETROFIT

It consists to supply a standard and easy-to-use electronic system in order to replace the old end of life and obsolete parts in the existing EEI Equipment with new regulation digital control based on microprocessor in order to upgrade the actual system to a full digital control system to guarantee spare parts at least next 10-12 years. This solution permits to avoid the complete replacement of electrical cabinet maintaining the frame, electromechanical parts, bus bars connection, wound components, this permits the reduction of plant stoppage and therefore costs.

- KIT for AC/DC converter is composed by one full digital regulation card and one SCR driver card mounted in a mechanical chassis completed with wires and terminal boards for connection with existing SCR power modules.

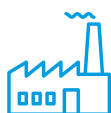
- KIT for DC/AC drive for each block composed by one complete new generation EEI drive
- KIT for new HMI
- KIT for new PLC

Mounting and internal connections usually performed by customer electrical team or by EEI service team upon request Assistance to the commissioning performed by EEI qualified Engineer.

THE MAIN PARTS TO BE REPLACED ARE THE FOLLOWING:

- KIT for each block with new AC or DC full digital drive
- Videokeyboard with new HMI panel
- Old PLC with New PLC and coordination cards





INDUSTRY



BIG SCIENCE



ENERGY



ROPEWAYS

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