

**FLIPO**  
RICHIR  
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ENERGIA  
POLSKA



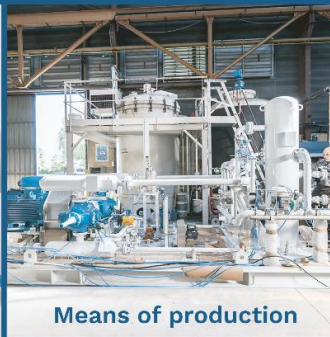
# Automations



Engineering



Services



Means of production



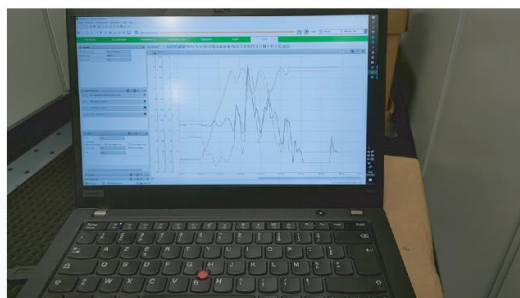
Equipment

## OUR AREAS OF EXPERTISE :

- Industrial automation, generator sets, tertiary sector
- LV & HV variable speed drive
- Command control / excitation
- Energy saving studies
- Remote access
- Monitoring

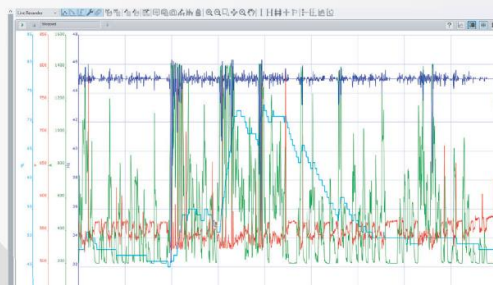
## OUR AREAS OF EXPERTISE

- Hydro
- Data centre
- Industrial lifting
- Port lifting
- Remote access
- Automotive
- Steel industry
- Food processing
- Sewage treatment plants
- Generator Set Plants



## WE PROVIDE

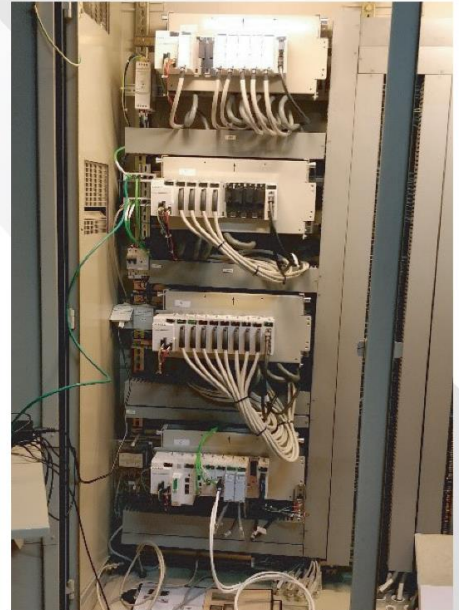
- Assistance in drawing up specifications based on the customer's needs
- Determination of technical solutions
- Functional and organic analysis
- Creation of electrical diagrams
- Programming
- Wiring of electrical cabinets and enclosures
- Creation of a platform before installation at the customer's premises
- Creation of recipe list
- Construction works:
  - Installation of cable trays
  - Cable routing
  - Installation of cabinets and enclosures
  - Installation of consoles
  - Cabling
  - Electrical testing
  - Functional application testing
- Customer support during the transfer of expertise
- After-sales service
- Training of production and maintenance teams
- CMMS – Putting documents online





## SERVICES

- Troubleshooting
- Repairs
- On-call agreements covering existing equipment, guaranteed response time, spare parts management
- Equipment obsolescence study
- Telephone support
- Remote monitoring
- Training
- Management of your equipment
- Compliance with standards
- Harmonics measurements
- EMC problem study
- Sale of used equipment
- Preventive maintenance
  - Preventive backup of PLCs
  - Backup of drive parameters
  - Preventive maintenance of drives
  - Equipment cleaning
  - Connection control
  - Power cycling of drives that have been stored for more than a year (to prevent destruction of the capacitors)



## PRODUCTS

### SALE OF USED EQUIPMENT

- PLCs
- Variable speed drives (AC & DC)

### SALE OF NEW EQUIPMENT

- PLCs
- Variable speed drives (AC & DC)
- Programming consoles
- Monitoring PC

# EXAMPLES OF SERVICES

## ■ AUTOMATION / MONITORING

- Design and implementation of new and retrofit projects
- Remote control and/or monitoring study
- Optimisation of operation
- Preventive and corrective maintenance
- Obsolescence study ...



## ■ SPEED VARIATION

- Design and implementation of new and retrofit projects
- Energy saving study
- Improvement with regard to EMC, harmonics problems
- Optimisation of operation
- Preventive and corrective maintenance ...



## ■ CONTROL / COMMAND EXCITATION

- Design and implementation of control systems
- Proprietary voltage regulator
- Excitation testing on platform
- Commissioning of installations
- Product training for users



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### POLSKA

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