



AUTOMATION AND PROCESS CONTROL

FAST CONTROL TECHNOLOGY

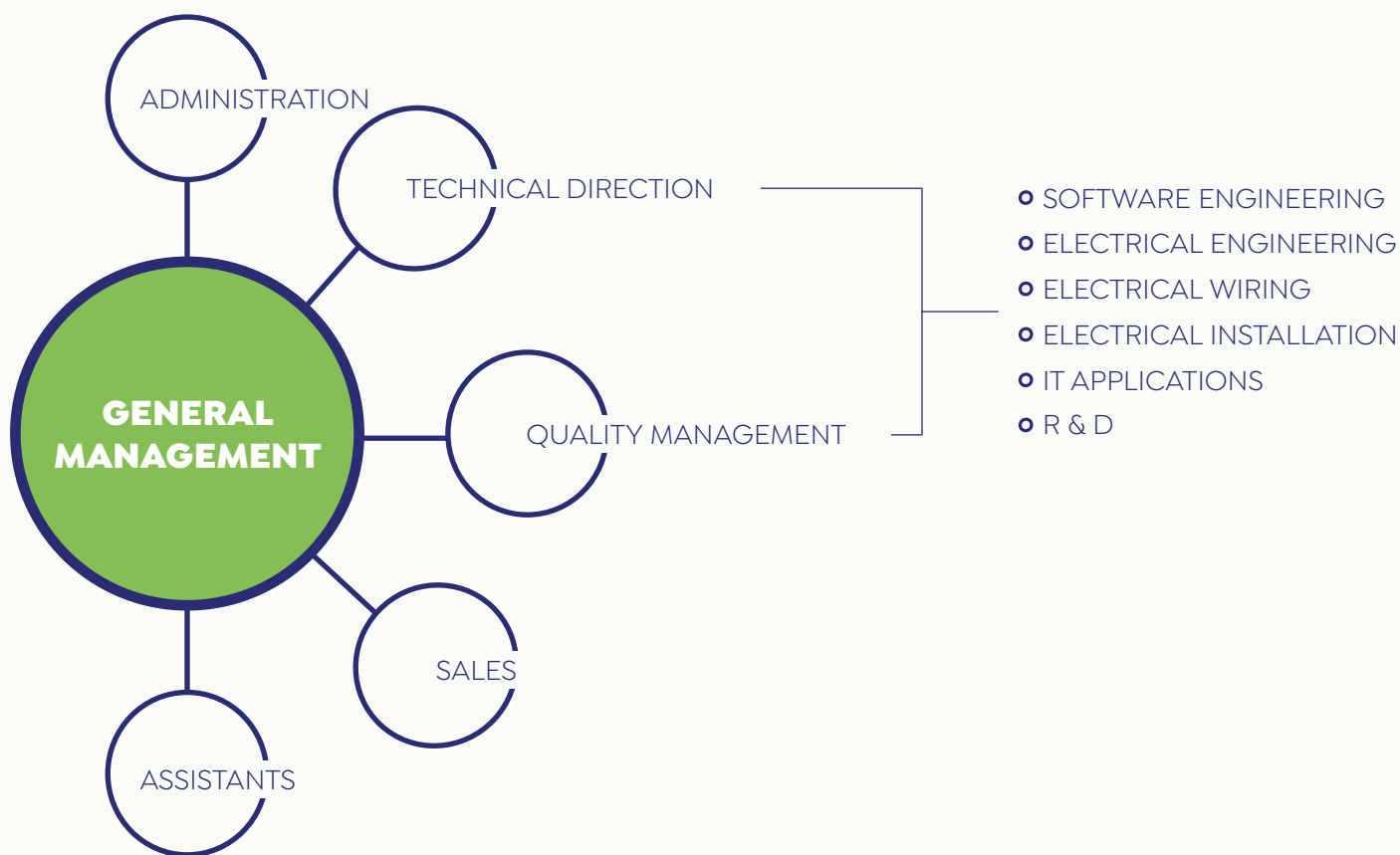
EVERYTHING UNDER CONTROL

When a process is designed to ensure top performance, nothing is left to chance and every step is controlled in order to achieve the very best result.

FAST designs Automation and Process Control Systems for the industrial sector and for utility production, management and distribution services.

FAST has worked since 1982 in the knowledge that control technologies play a key role in ensuring the efficiency of a company's processes.

For nearly 40 years now, **FAST** has therefore always made sure to use only the very latest **hardware and software technologies**, and to work closely with leading international players at all times.



FAST GROUP



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**PRODUCTION
CAPACITY
MANPOWER**


Software Engineering
50,000 h/y


On-Site Assistance
20,000 h/y


Electrical Engineering
15,000 h/y


Electrical Wiring
30,000 h/y



A GROUP LOOKING TO THE FUTURE

Formed of the companies **FAST**, **TECLAB** and **FASTEST**, the group employs a team of 100 qualified people.

It invests over 3,000 hours/year in training and commits 12% of its turnover to research and development, putting technological innovation at top of its priorities.

SECTORS



ACTIVITIES

- "Turnkey" supply of control systems
- System migration and revamping
- Project management
- Electric/instrumental engineering
- Development of application software based on PLC, SCADA, DCS and ESD systems
- Special tasks: MES applications, development of special communication protocols, remote controls
- Design and wiring of control, power and MCC electrical panels
- Design and manufacture of electrical systems
- On-site services (commissioning, start-up and technical support) throughout the world
- Service and maintenance



TURNKEY SYSTEM INTEGRATION

FAST integrates "turnkey" automation and process control systems strictly according to the specifications, legislation, quality standards, time-frames and agreed costs.

With its structured organisation and inter-disciplinary skills, **FAST** is able to carry out every stage of production of a "turnkey" system.



- 💡 Project management
- 💡 Definition of system architecture
- 💡 Hardware design specification
- 💡 Software design specification
- 💡 Engineering and wiring of electrical cabinets
- 💡 Configuration of control and supervision application software
- 💡 Factory Acceptance Test (FAT)
- 💡 Electrical installation
- 💡 Commissioning – Start-up
- 💡 Training
- 💡 After-sale service

EMERSON ABB YOKOGAWA SIEMENS HIMA HONEYWELL
GENERAL ELECTRIC ROCKWELL AUTOMATION SCHNEIDER ELECTRIC
OMRON BECKHOFF WONDERWARE INVENSY MODBUS CANBUS
FIELDBUS FOUNDATION PROFIBUS OPC PROFINET



PROJECT MANAGEMENT

In the case of complex projects, a Project Manager with a high degree of technical expertise and proven experience coordinates the team of hardware and software engineers every step of the way. All technical and commercial coordination of the resources and activities is carried out in close contact with the customer, who liaises entirely with the Project Manager.

The projects are managed following a specific **project plan**, issued and updated in accordance with the relevant procedures of **FAST**'s UNI EN ISO 9001 certified Quality Management System.

- 💡 Meetings with the customer and final user to define the specifications and plan the activities and intermediate audit
- 💡 Project planning
- 💡 Technical coordination
- 💡 Management of resources

- 💡 Issue and management of the project documentation
- 💡 Management of supplies
- 💡 FAT management
- 💡 Management of logistics

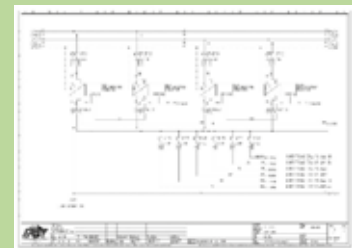
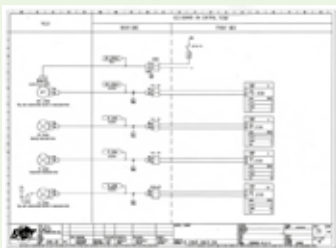


Project engineering is the most crucial stage of development of a technological system since it involves the creation of a structure on which the entire system will depend.

FAST believes that the skill, experience and expertise of a company can be measured by the standard of the system's performance in terms of its functions, technology and speed of execution.

Complete and satisfactory execution of the functions, availability and running of the application when required, dependability, and adaptation to the latest and most common standards are, therefore, key objectives and constitute the guidelines that **FAST's** Engineering Services Division, working closely together with the production departments, sets itself when doing the following:

- 💡 Electric/instrumental engineering
- 💡 Design of hardware and software structures for process control
- 💡 Design of control and electrical cabinets
- 💡 Design of industrial electrical installations



FAST carries out Electrical and Electric/instrumental engineering (Detailed engineering) on the basis of the documents provided by the customer (basic

engineering), including the P&I drawing, Control Narratives, Lists of Instruments and Lists of Motors:

- 💡 Functional specifications
- 💡 Architecture of control systems
- 💡 I/O lists
- 💡 Logic diagrams
- 💡 Cause / Effect chart
- 💡 ESD / F&G diagrams
- 💡 Sketches of the graphic pages
- 💡 Loop diagrams
- 💡 Wiring diagrams for control, MCC, LV and MV power distribution cabinets
- 💡 Cable list
- 💡 Electrical engineering
- 💡 Electric/instrumental specifications

SOFTWARE

One of the key factors on which the efficiency of a plant depends is the software for management, control and supervision of the industrial processes and the services for production, distribution and management of the utilities: **machinery, systems and plants work at their best, being productive while generating the least possible waste, when the application software achieves a very high level of precision and reliability.** FAST develops software for the control, supervision and safety of machines and plants using architectures based on **DCS, ESD, PLC and SCADA** systems.

The technicians at **FAST** collaborate with the customer from the stage of defining the specifications to start-up of the plant, managing all the main aspects of industrial automation and process control such as:

- Continuous processes for transformation and production
- Batch processes
- Handling
- Automation of machines and production lines
- Axis control
- Communications
- Safety
- HMI
- Data acquisition



SYSTEMS USED

DCS

- Emerson DeltaV
- ABB 800xA, AC800M, AC800F, Freelance, DCI System Six
- Yokogawa Centum
- Siemens PCS7
- Honeywell Experion

PLC

- Siemens S7-300, S7-400, S7-1500
- General Electric Rx3i, Rx7i, 90-30, 90-70
- Rockwell ControlLogix, SLC500
- Schneider M580, Modicon Quantum, Modicon Premium
- Omron CJ1, CJ2, CS1
- Saia PCD2, PCD4
- Beckhoff TwinCAT

ESD

- Hima Himax, HiQuad, HiMatrix
- Emerson DeltaV SIS
- ABB Plantguard (ICS Triplex)
- Siemens S7-300F, S7-400F

SCADA

- Siemens WinCC, WinCC Tia Portal
- Wonderware Intouch
- General Electric Cimplicity, iFIX
- Schneider Citect
- Rockwell FactoryTalk, RSVIEW
- Progea Movicon
- Fast Plant View

FAST designs and creates electrical cabinets compliant with the European standards in force, using only the best and most commonly used components on the international market.

- 💡 System panels, I/O panels and Marshalling panels for safe zones and ATEX classified zones
- 💡 Interposing relay panels
- 💡 MCC cabinets
- 💡 Control panels
- 💡 MV and LV power distribution cabinets
- 💡 Electrical cabinets
- 💡 MV-LV transformer cabinets



Particular importance is placed on the inspection and testing stage, during which full compliance with the design requirements is checked according to the **ISO 9000 standard**.



For each cabinet that it supplies, **FAST** issues external and internal layout drawings, a wiring diagram, a list of components, a diagram of the terminal boards, a declaration of conformity with the **Machinery Directive 98/37/EC** and an instruction manual.

ELECTRICAL SYSTEMS

FAST designs electrical systems for the industrial and civil sector. The company carries out all stages of development of an electrical system directly on-site, from design and installation to testing and start-up, and also offers an after-sale support and emergency maintenance service.

Backed by its experience in the field of system integrators for process control, **FAST** relieves the customer of the tiresome need to interact with different suppliers and guarantees absolute quality and professionalism.

- 💡 Design and development of the electrical system according to the legislation

- 💡 Construction of ducts

- 💡 Laying of cables

- 💡 Connection of utilities

- 💡 Photovoltaic systems

- 💡 Loop Check

- 💡 Start-up



FAST's on-site service, carried out by highly experienced technicians during all stages of commissioning, start-up and support, is included in supply and guarantees completion of the project in accordance with the highest standards of quality.

FAST uses the qualified engineers and technicians of its subsidiary company, **FAST-EST**, to provide the following services throughout the world:



- 💡 Inspections
- 💡 Installation supervision
- 💡 Loop Check
- 💡 Commissioning
- 💡 Start-up

FAST can also be a valuable partner in the training of the customer's personnel and in the provision of after-sale services:

- 💡 Training
- 💡 Troubleshooting
- 💡 After-sale support



SERVICE AND MAINTENANCE

The clear expertise and high level of professionalism of **FAST's** technicians is particularly evident during the critical phases of Service and Maintenance, when they provide a fast service with minimal downtime to the great and real benefit of the customer. By entering into a Support/Maintenance contract with **FAST**, the customer is guaranteed:

- 💡 Support at all times, 24 hours a day and 365 days a year
- 💡 Availability of spare parts
- 💡 Remote support directly from **FAST's** headquarters

CERTIFICATIONS

FAST is in compliance with the standard

UNI EN ISO 9001:2015

UNI EN ISO 14001:2015

BS OHSAS 18001:2007

for the following products/services:

Engineering, installation and assistance of automation and remote control systems,
Information Technology systems on networks and web and relative sw on PCL, DCS and computers.
Engineering, Manufacturing and Installation of Control & Power Electrical Boards.
Installation of Electrical Plants.

Since 2001, **FAST** has also been in the register of

**Approved Laboratories at the Ministry for University, and
Scientific and Technological Research (MIUR)**. This important recognition is indicative of
the great attention that **FAST** has always paid to technological innovation
through the collaborative work of the Research & Development department.



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