



ER INGENIERIE

STUDY • SIMULATION • DESIGNING • BUILDING • IMPLEMENTATION
OF SPECIAL MACHINES AND MANUFACTURING SYSTEMS

MIDDLE EAST, NORTH AFRICA AND EASTERN FRANCE



**“AT THE AGE OF 34, AFTER EIGHT YEARS WORKING IN
IN TAIF, KIRKUK, CAIRO AND TUNIS, MY WIFE AND I
DECIDED TO SET UP A BUSINESS IN FRANCE. ”**

Christian Faivre, Chairman and Founder of ER INGENIERIE

PRESENTATION

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SUBSIDIARIES

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ER INGENIERIE AO

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Figures and quality standards

- founded in 1987
- family group
- 70 employees (designing, production, administration)
- capital €350,000
- projects of all dimensions (up to several million euros and spanning several years)
- 30 - 70 % sales exported
- ISO 9001 and OHSAS 18001 certified
- manufacturing to cGMP (current Good Manufacturing Practices)



Chairman's commitments

- ARIA
- FFLOR platform
- Association Saint Jacques
- CCI Nancy Métropole
- CCI Grand Est
- Foreign trade advisor

Awards

- Technological innovation trophy (Ester d'or)
- Safety challenge awarded by the DSM group
- First prize for export (Société industrielle de l'Est)
- Novel export trophy (Lorraine export)

Mention

- « L'excellence en Meurthe-et-Moselle : le savoir-faire des entreprises » (by Dominique Charton, published in 2018)

RELEVANT AREAS AND INDUSTRIES

YOUR MANUFACTURING PROJECT (SPECIAL MACHINES AND MANUFACTURING SYSTEMS) ON A TURNKEY BASIS TO ADDRESS YOUR TARGETS FOR PRODUCTION, QUALITY, IMPROVED MANAGEMENT OF PROCESSES AND INTEGRATION OF NEW TECHNOLOGY

AUTOMOBILES

FOOD

**DEFENCE
& RESEARCH**

**CHEMICALS
& PHARMACEUTICALS**

ENVIRONMENT

INDUSTRIAL ELECTRICAL SYSTEMS

COSMETICS

**MEDICINES
& BIOMEDICAL**

MANUFACTURING

PROJECT INITIATION PROCESS

contact and description of your needs or sending of your requirements to
solution@eringenie.com

rapid review of your project and challenges

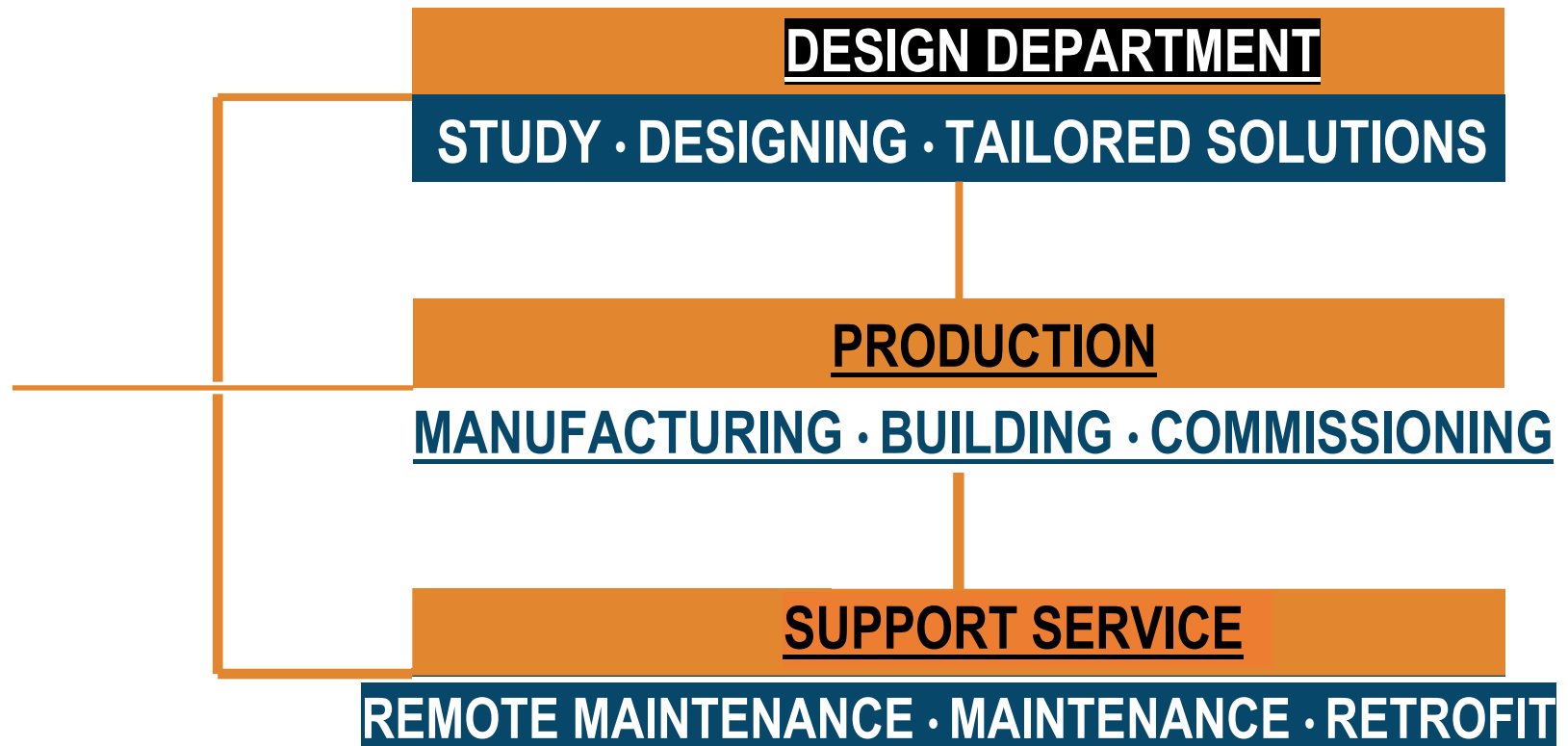
submission of a price offer and completion schedule by one of our department
managers (manufacturing/process engineering/electrical systems)
along with our quotations unit and technical division

once your project is accepted, a team
of doctors, engineers and/or technicians will support you

PROJECT DEVELOPMENT

ENTIRELY OR IN PART

CONTACT
REQUEST
DEFINITION OF
BASES OF THE
PROJECT



SERVICES & COMPETENCIES BASED ON THE PROJECT

DESIGN DEPARTMENT • STUDY DESIGNING TAILORED SOLUTIONS

- mechanical engineering/fluid mechanics
- process engineering (PFD/P&ID, CAD, layouts, design calculations/process book)
- electricity/pneumatics/hydraulics
- simulation/supervision
- automation & robotics/cobotics
- non-destructive testing
- IT/ big data processing

PRODUCTION • MANUFACTURING • BUILDING • COMMISSIONING

- machining (turning/milling/grinding)
- hardware/piping/welding
- assembly and mechanical adjustment
- electrical wiring, pneumatics & hydraulics of cabinets and machines (of building if needed)
- adjustments and testing in our workshops
- incorporation into the environment and commissioning on site in France and elsewhere
- training for your employees

SUPPORT SERVICE • REMOTE MAINTENANCE • MAINTENANCE • RETROFIT

- setup of remote maintenance assistance (remote maintenance unit, connected glasses)
- predictive/preventive/corrective maintenance
- compliance with standards
- retrofit (refurbishment) of your machines and your existing manufacturing systems

APPLICATIONS & DEDICATED DEPARTMENTS

MANUFACTURING

- **special machines/production lines, assembly, packaging**
- **automated/semi-automated/robotic/collaborative solutions**
- **industrial processes/design**
(intralogistics, robotics, picking/tracking, filling/dosing/labelling/packaging, bin picking, marking, screwing, fitting, heading, crimping/riveting, greasing, inspections, error proofing, vision, etc.)
- **supervision**
- **non-destructive testing**
- **environment**
(water quality monitoring, VOC treatment and recovery)

PROCESS ENGINEERING

- **chemical and pharmaceuticals processes**
- **building of equipment to cGMP**
- **studies and tests on our laboratory pilot**
 - **standard extraction skid**
- **supercritical CO2 and subcritical water extraction**
(for example: CBD — therapeutic cannabis)
- **CIP** (cleaning in place)
- **equipment and installations in ATEX zone**
- **encapsulation**
- **impregnation**
- **micronisation**
- **sterilisation**
- **cleaning/recycling with supercritical water**

CONTRIBUTORS TO INDUSTRY 4.0

MEMBERS OF FFLOR

(FUTURE OF FACTORY LORRAINE), DRIVEN BY CEA TECH AND LOCATED IN THE MANUFACTURING FACILITY OF PSA TREMERY, AND FRENCH FAB, FLAGSHIP OF FRENCH INDUSTRY.



THE PLATFORM FOR THE INTEGRATION OF NEW TECHNOLOGY FFLOR IS INTENDED FOR DIGITAL FACTORIES THAT ARE MORE FLEXIBLE AND PEOPLE-ORIENTED.

IT IS ORGANISED INTO FIVE THEMED WORKSHOPS.

VIRTUAL REALITY

COLLABORATIVE ROBOTICS

COBOTICS

SMART LOGISTICS

CONNECTIVITY/
INTEROPERABILITY OF
SYSTEMS

CLIENT REFERENCES

LARGE MULTINATIONAL CORPORATIONS, PUBLIC ENTERPRISES, SMEs, START-UPS AND UNIVERSITIES,

THEY HAVE TRUSTED US TO SUPPORT THEM IN FRANCE AND OTHER COUNTRIES

Accumalux AEIM AGC Akebono **Allevard Rejna** Aloris **Alsa** Antolin France Antolin Maroc Anvis
Aqua MS Arcelormittal Areva Artelia Auxitrol Esterline Baccarat Biolie **Brasserie Champigneulles**
BWT-Permo CEA Centre Pompidou Cerebos Chassis Brakes International Chubb Clarion
Climascience CNRS Continental Curver Danone De Dietrich DGA DSM Eclatec Eras **Essilor**
Eurocryospace Fabricom Fair'belles Faurecia Ficomirrors Ficoso Fives **Fromagerie Bel France**
Fromagerie Bel Maroc **Fromagerie de Neufchâteau** GDF Suez **GEA** GE Energy GGB GMD Plastic
Gris Découpage GW Pharmaceuticals HEI Honeywell **IFBM** Innothera Inteva I.R.S.N **Jacob Delafon**
Johnson Control Kronenbourg Lilly France Lindal Lu (Kraftfood) Magna Meritor Mexel Mil Plast
MPO Environnement Nancéenne des Eaux Nobel Automotive Novasep **O-I (Owens Illinois)**
Philips Pierburg Prezioso Linjebygg **PSA Peugeot** Citroën Saint Gobain PAM Saur Schreiber Foods
SD Innovation Sealynx Sepatek Siemens **SNC Lavalin Snec** Socopa Sofradim **Sogefi**
Sogefi Filter systems Maroc Sogefi Orbey Solabia Solocap Sommet **Sovab** Stago Stanipharm Takata
Tesca Thyssenkrupp TI-Automotive Valeo Veolia Viessman Viskase Voltec solar Web'air WSP **ZF** TRW

EXAMPLE OF PROJECT FOR THE AUTO INDUSTRY



tailored manufacturing line for diesel filters
assembly and inspections
automatic and semi-automatic
designed and manufactured in France,
delivered and commissioned on site in Morocco

EXAMPLE OF PROJECT FOR THE PHARMA INDUSTRY



1 1



tailored industrial unit for supercritical CO₂ extraction

extraction of active ingredients from plant raw materials
(e.g.: CBD — therapeutic cannabis)

designed and manufactured in France, four industrial units
delivered and commissioned on site in the United Kingdom

standard extraction skid ranges available
from 20 ml to 1000L and more

on request from solution@eringenie.com

(more info on eringenie.com/genie-des-procedes)

EXAMPLE OF PROJECT FOR THE FOOD INDUSTRY



tailored robotic packaging line
packaging of cheese boxes
in cardboard cases

designed and manufactured in France,
delivered and commissioned on site in Morocco

EXAMPLE OF PROJECT FOR THE BIOMEDICAL INDUSTRY



▲ **tailored cleaning skid using ethyl alcohol**
treatment of dressings to make them bio-absorbable
designed, manufactured and commissioned on site in France

◀ **tailored machine for the assembly of consumables for plasma analyses** placing of a ball in a transparent recess, inspection and crimping on a perforated ribbon

designed and manufactured in France, over 20 units delivered and commissioned in France and China

EXAMPLE OF PROJECT FOR INDUSTRY 40



tailored line of conveyors for Industry 4.0
robotisation, conveying and connection to AGV
designed and manufactured in France,
delivered and commissioned on site in France

EXAMPLE OF PROJECT FOR THE ENVIRONMENT INDUSTRY



▲ system for treating VOCs (Volatile Organic Compounds)

air filtration system suited for wine-making facilities



designed and manufactured for several sites in France

◀ GYMNOTOX

continuous water quality control biodelector (e.g. glyphosate measurement and alert)

designed, patented and manufactured in France,
several units delivered and commissioned in France

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