

FONDERIES DE SOUGLAND®

Iron and steel foundries



DESIGN WITH YOU
PRODUCE FOR YOU

FONDERIES DE SOUGLAND

INDUSTRIAL HERITAGE OF NORTHERN FRANCE

1543 | Fonderies de Sougland was founded. Thomas de Canone obtained a lease, from the abbot of Saint-Michel, at a place called "SOUGLAND" in order to build a forge and furnace.

1850 | The Dormoy lineage, a dynasty of ironmasters for over half a century, invented the enamelling machine, which was an award-winning patent (Chairman of the Jury) at the 1900 Paris World Fair.

1963 | The LANG family took over the company, through François LANG, who purchased the company and developed the production of industrial parts.

1998 | Florence LANG reinvigorated the corporate project based on the continuous development of know-how, innovation and customer service.



Fonderies de Sougland: A company on the move

The company has been a forerunner in its trade for twenty years. It has invested, modernised and adapted its study and production tools in order to meet its customers' needs and market developments.

Our company supplies numerous faithful French and foreign customers, in various sectors of activity.

- Shipbuilding
- Iron and steel industry
- Chemical industry
- Nuclear industry
- Metal processing
- Railways
- Incineration
- Glassware
- Hydraulics
- Heating
- Refractory materials
- Mechanics
- Cement industry
- Paper industry
- Car industry
- Crushing and grinding
- Agriculture
- Energy
- Oil and gas
- Agglomeration
- Public works
- Armour plating
- Sugar refinery



QUALITY & ENVIRONMENT

Certifications: ISO 9001 and ISO 14001

ADWO Merkblatt

Our CSR approach: Our company bases its development on respect for social, eco-friendly and economic values, beyond mere regulatory requirements.

Our QEPSE approach: Quality, Environment, Prevention, Safety, Energy. Our new processes include conservation of the environment, prevention of accident hazards and saving energy.

ISO 50001: Our company is committed to energy management, via training/action. Our short-term aim is to obtain ISO 50001 certification.



Our culture

Customer service

Our values

Commitment

Respect

Ambition

Enthusiasm

A dynamic team sharing the same targets

Customer satisfaction and loyalty
Customer partnerships
Passion for the job
A taste for challenge and innovation

Control Department and Design Office with the latest equipment

Continuous quality improvement
Guaranteed compliance
Optimisation from co-design onwards
Re-design to cost

Foundry, machining, mechanical welding: skills of 3 workshops

Single or medium-size series parts,
From a few grams to 2.5T
Global and integrated productions and services

4 foundry casting production lines: manual, machine, Disamatic, block

Known and recognized high technical know-how
Reactivity – Flexibility – Short deadlines

A FEW FIGURES

A dynamic SME, a company on the move

7% of turnover for R&D investment a year
10% to develop factory 4.0

Customer portfolio exceeding 300 companies

Over 150 active customers a year
17% from exports

Over 1,500 referenced parts

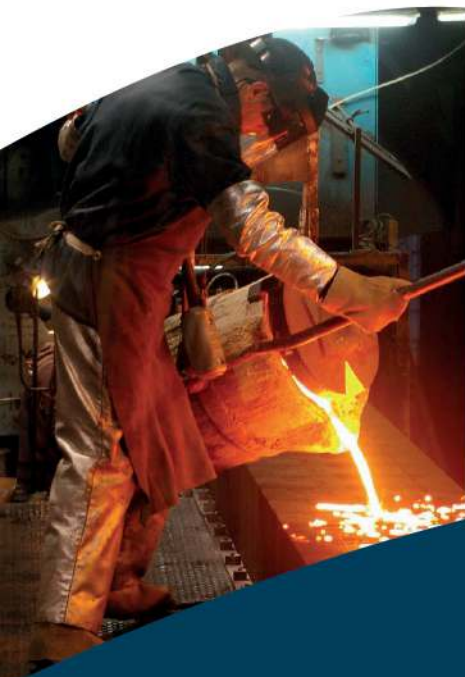
300 cast iron and steel grades
2,000 tonnes cast a year

A team of over 70 people

Including 15 managers and technicians

Continuous training and skill development

15 to 20 training programmes a year



OUR DIFFERENCE: INTEGRATED R&D

- 7% of turnover devoted to research & development each year. Our researchers, engineers and technicians work in partnership with universities and research centres.
- Offer innovative solutions to our customers.
- Anticipate market restraints.
- Create value, ensure growth and development.

OUR EVOLUTION TO FACTORY 4.0

- New manufacturing technologies
- 3D printing, additive manufacturing
- Numerical chain development
- Man-machine interface, improved working conditions

OUR CUSTOMERS AROUND THE WORLD

We are already present in 14 countries, including the United States (US Navy). We aim to strengthen our international business by increasing exports to nearly 50% of our turnover.



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Develop skills and the entrepreneurial spirit at school



THE FONDERIES DE SOUGLAND TRADES COMBINE
KNOW-HOW, INNOVATION AND HIGH TECHNOLOGY

IRONS AND STEELS

Incorporate your needs and constraints in our processes

Improve your products' technical characteristics

4 different and complementary production lines

A wide range of products

Parts from a few grams to 2.5T
From single part to medium-size series
Over 300 iron and steel grades
Flexibility and short deadlines

Smelting equipment

1 induction furnace of 250Kg
1 induction furnace of 600Kg
3 induction furnaces of 1T
1 induction furnace of 3.5T



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FONDERIES DE SOUGLAND PLURAL PROCESSES

We study and produce technical parts, co-designing with our customers and providing real quality of service to our customers via a global integrated offer (study, prototype, production, inspection).

Our production tool includes 4 different processes adjusting to each project's specific requirements:

BLOCK CASTING TO 600 X 600

A process that does need frames to foster production with a highly competitive output rate.

- Process with polyurethane compound
- Low-carbon, heat resistant, stainless steel grades, super alloy and alloy cast iron

MACHINE MOULDING (GREEN SAND) WITH 580 X 680 FRAME

Our equipment's performance, high-quality and reliability enable us to produce an extensive range of parts cast in the shortest time.

- Small and medium-sized series
- All sectors of activity
- Low-carbon, heat resistant, stainless steel grades, super alloy and alloy cast iron

DISAMATIC BLOCK CASTING 600 X 480

Our automatic production line produces precision parts with a high production cycle.

- Alloy cast iron and heat resistant steel grades
- Well suited to the requirements of steel, incineration and biomass-fired boiler sectors

HAND MOULDING TO 3000 X 3000

Our experienced technicians produce your parts in all sizes.

- Process with furan compound
- Low-carbon, heat resistant, stainless steel grades, super alloy and alloy cast iron
- Strongly cored parts



Producing steel parts
via DISA

4 production lines
4 manufacturing processes

Over **300 controlled
ferrous grades**
and others tailored
to your needs

OUR COMMITMENTS

- ☑ Meet your long-term requirements thanks to our rigour
- ☑ Respond to technical challenges within short deadlines

MODELING

Wood, resin, metal.

SURFACE TREATMENT

Shotblasting, sandblasting, priming, painting, metallization, galvanizing.

HEAT TREATMENT

All heat treatment via automatic furnaces up to 1,200°C.

INSPECTION

Spectrography, metallography, mechanical tests, non-destructive tests (dye penetrant, magnetic particle, three-dimensional, etc...).

INTEGRATED MACHINING

Numerical control, milling, boring, drilling machines.

Our team's know-how enables you to enjoy versatile and diverse services, from raw parts to a complete range.



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OUR DIFFERENCE

Our expertise and study resources, combined with our foundryman experience, enable us to perform and validate the transition from the design stage to the implementation stage.

FEASIBILITY STUDY

Our cast iron and steel Design Office analyzes your request's feasibility or specifications (idea, part, plan, file, etc.) by anticipating your project's technical constraints and adequate resources. We provide you with a comprehensive solution including estimated costs, quality constraints, scheduling, technical and economic context, etc.

CO-DESIGN, CO-DEVELOPMENT

Our Design Office designs and makes production process technical choices from your ideas or specifications. The final part's optimisation is the result of an active exchange with your services. The co-design and co-development with your engineers, technicians, design offices produce various size, shape, grade (over 300) and metal analysis modifications.

Our simulation tools reveal the alloy's behaviour during the whole solidification phase, in order for us to produce increasingly complex and compliant parts during initial production.

NEW PARTS AND PART DEVELOPMENT

For new parts or parts that you wish to develop, we are committed to supporting you in the following:

- Reduce production costs by easing the realization process.
- Sustain and secure manufacturing processes.
- Succeed in producing cast part prototypes.
- Produce standard types internally in under 2 to 3 weeks.
- Reduce weight of parts and mounted units.

PROTOTYPES (TOOLS, PARTS)

Our prototyping solutions enable us to produce prototype parts in a very short space of time. Tools can be produced by polystyrene machining via numerical control, stereo lithography or 3D printing.

PRE-SERIES

Our study team completes all the project stages until final validation, before marketing, in order to ensure your parts' high quality.

Digital design and simulation enable us to produce parts with maximum achievable compliance. The validation of physical parts is also imperative. Our tests meet the most stringent regulatory requirements.

MANUFACTURING

Your parts can be made in our production units. We have several production lines and processes that enable us to meet your requirements and notably with the highest quality standards.

RAW OR MACHINED FINISH

We produce raw parts, which undergo heat treatment and are machined with or without surface treatment.

ASSEMBLY

We nurture various in-house skills and master several trades: casting, sheet metal, mechanical welding, machining. We perform different types of fittings and assembly (permanent, dismountable).

STOCKS

We can produce and store additional parts and ensure supplies in order to secure your production. We can also provide storage and maintenance of your tools.

SUPPORT, CUSTOMER ADVICE

Our Design Office listens to your wishes and establishes a long-lasting relationship that enables you to then meet your own internal and external customers' requirements.

OUR DESIGN OFFICE'S TECHNICAL AND HUMAN RESOURCES

Fonderies de Sougland has highly-efficient technical, scientific and human resources that enable us to meet your expectations in an evolving market.

Co-designing new industrial parts produced via the gravity casting process is based on various assets.

 Capitalising on our foundryman's know-how and experience

 Our Design Office investigation resources:

- CAD stations
- Filling and solidification simulation stations
- Portable scanner

 Our Design Office technical, technological and production control resources

- Dimensional studies and checks via 3D measuring machine
- Solidification thermal analysis of molten metal sample
- Check mechanical properties via test specimens
- Check metallurgical properties: spectrometry and microscopy
- Non-destructive dye penetrant, magnetic particle or ultrasound inspection of parts.

 Development of new technologies, in partnership with technical centres and technological platforms renowned and experts in their field.



MACHINING MECHANICAL WELDING ASSEMBLY

MACHINING

Our know-how enables us to offer you global solutions including machining and its supplementary activities (heat and/or surface treatment, hydraulic tests, etc.)

Means of production:

- Design office (plans and parts)
- Numerically controlled horizontal and vertical lathes
- Numerically controlled vertical centre
- Milling, boring, drilling machines
- Test benches (hydraulic tests)
- Part of our machinery is devoted to single and/or specific parts



MECHANICAL WELDING

We can provide you with services suited to numerous applications thanks to the performance of our means of production and employees' expertise, within short deadlines

Means of production:

- Design office (plans and prototype parts)
- Shears - plasma cutting, blanking presses
- Stamping presses, CN press brakes - Punching, trimming, bending machines
- Soudures (manuelle, machine automatique, robot de soudure) toutes matières :
- Cast iron, steel, stainless steel
- Wet-paint spray line in means of production



FITTING units and sub-units



Our workshops are structured to meet your needs, from machined parts to complex units and from a single service to global subcontracting.

We perform the machining, fitting, assembly and inspection of the functionalities of units entrusted to us, whether these are prototypes, small or medium-size series, etc.

Alliance of expertise:

The high technical skills and numerous qualities (self-reliance, adaptability, versatility, responsibility) of our team members enable us to ensure that parts will meet your requirements.

Our stringent deadline, precision and quality control requirements enable us to provide you with the best possible service.



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OUR COMMITMENTS

- ☑ Meet your long-term requirements thanks to our rigour
- ☑ Respond to technical challenges within short deadlines
- ☑ Ensure the quality and traceability of projects entrusted to us
- ☑ Fulfil your precision and control expectations
- ☑ Use our integrated transversal workshops to optimise our offer



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