

### An integrated manufacturing solution

#### High casting capabilities to meet customer projects

##### Your Challenge

Find a solution for the manufacturing of complex shape pieces with an integrated solution from the design to the manufacturing.

Obtain pieces with a high material quality level.

##### Our Solution

Located in Burgundy, Framatome Le Creusot plant has high industrial capabilities and competencies in casting. Thanks to its ISO certification and its experience on international regulations, the plant supports the whole costumers needs including qualification process and conformity declaration.

This solution is applicable in many industrial fields – Cementery, Mining, Hydraulics, Oil & Gas, Energy, Special machines, Medical, Navy and Defense...

Framatome Le Creusot plant proposes an integrated solution for the manufacturing of castings:

- An R&D and numerical simulation service determine the mould geometry and simulate the thermic behaviour during filling, solidification and heat treatment steps,
- Dedicated high competencies operators manage the full manufacturing of the pieces: building of the mould, sand casting process and controls of the finished piece.

In addition, Framatome le Creusot has:

- Many heat treatment furnaces for the post casting operations,
- High capabilities in machining especially with milling machines in order to reach the final shape of the pieces,
- An accredited ISO 17025 laboratory for the material characterization.



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#### Technical informations

##### INDUSTRIAL CAPABILITIES

##### 2 Moulding pits with movable dams (connection possible)

	Pit 1	Pit 2
Lenght (m)	10	21
Width (m)	10	7
Height (m)	3	6,5

##### 1 Housing moulding

Lenght (m)	6
Width (m)	5,2
Height (m)	4

##### 2 mixing devices

##### 1 laboratory of sands

##### laddle of casting materials going until 90 T

##### Welding equipment

Welding processes : Gas Tungsten Arc Welding and Shielded Metal Arc Welding

#### Customer benefits

- Safety and Quality Conformity
- Internationally trusted supplier with proven experience
- Integrated solution
- High capabilities in casting process
- High competencies and dedicated casting team
- Heat treatment, machining and characterization capabilities
- International transport of heavy loads management

**Your performance  
is our everyday commitment**

#### Key figures

More than **40** nuclear casings from 2005

Castings over **50** tons and **500** mm thick

Wide range of steel grades

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