

Casting for Nuclear applications

An integrated manufacturing solution

High casting capabilities to support customer projects on Nuclear activities

Your Challenge

Find a solution for the manufacturing of complex shape parts with an integrated solution from the design to the manufacturing Parts with a high material quality level. Full choice of grade :

- Non-alloy ferretic steel (carbon steel)
- Austeno-ferritic stainless steel (Nickel-chromium steel)

Our Solution

Framatome Le Creusot plant has high industrial capabilities and competencies in casting according to RCCM-2018 or ASME requirements.

The plant supports the whole costumers needs including qualification process and conformity declaration to safety authorities.

This solution is applicable on Nuclear activities primary or secondary loop for EPR, CANDU, VVER or SMR and advanced reactor solutions.

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 parts.

In addition, Framatome le Creusot has:

- Heat treatment and machining capabilities
- An accredited ISO 17025 laboratory for the material characterization.

Example of product : Pump casing ; Impeller ; Barrel casing ; Valve casing ; Turbine casing

Customer benefits

- Safety and Quality Conformity according to RCCM – 2018 or ASME
- Internationally trusted supplier in nuclear industry, with high casting capabilities and dedicated skilled team.
- Integrated solution from contract start to final delivery on customer site
- International transport of heavy loads management

Your performance is our everyday commitment



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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

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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