framatome

Casting

An integrated manufacturing solution

Casting services support the most demanding projects in the nuclear & any other industries

Challenge

Manufacture large and complex **cast components** while meeting stringent quality, qualification, regulatory and logistics requirements for nuclear and other demanding industrial applications.

Solution

Framatome Le Creusot provides an integrated manufacturing solution for castings: Manufacture large and complex cast components while meeting stringent quality, qualification, regulatory and logistics requirements for nuclear and other demanding industrial applications. Upon receipt of the design specifications, Framatome Le Creusot will propose a technical specification and a schedule. Once approved jointly, works will start, through integrated approach, to deliver any complex-shaped parts, large components and critical castings thanks to:

- Complete project management from ingot procurement to final inspection and delivery
- Certified management systems : ISO 9001, 14001, 19443, 45001
- Expertise in ASME & RCC-M codes
- On-site: Integrated manufacturing engineering department & COFRAC- accredited laboratory (ISO 17025) for material characterization, non-destructive examination, microstructural analysis & chemical composition
- Advanced numerical simulations for casting and heat-treatment optimization
- Managing all manufacturing steps on site, with our partner's highly skilled metallurgical operators

Framatome Le Creusot can provide casting together within the same industrial site:

- Heat treatment/annealing/quenching for post-casting operations
- Advanced machining capacities (lathes & gantry milling) to reach final geometry
- Welding services and Non-Destructive Testing all performed on site
- Extended logistics experience in overseas shipment to Africa, Americas & Asia, and road transportation across Europe

Customer benefits

- Proven supplier for nuclear and demanding industrial projects
- High standards of safety, quality and regulatory compliance
- Single-site integrated manufacturing solution
- Extensive metallurgical expertise and broad steel-grade experience
- Reduced interfaces and simplified project management
- Worldwide logistics support for heavy and oversized components

Your performance
is **our** everyday **commitment**



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Technical information

INDUSTRIAL CAPACITIES & DELIVERIES

Equipment	Description
Molding pits	**90 tons ladle to pour into** • Pit 1 (L:10m,W:10m,H:3m) • Pit 2 (L:21m,W:7m,H:6,5m) Movable slabs to connect pits → **bigger casting size**
Housing molding	1 unit (L:6m,W:5.2m,H:5m)
Molding in pit	1 unit (L:10m, W:10m, H:4,5m)
Sand mixers	2 units
Sand lab	On-site
Welding means	• Gas tungsten arc welding • Shielded metal arc welding
Properties	**Delivered castings**
Thickness	> 500 mm
Weight	50 - 300 tons
Max Dimensions	• L=26m, W=7m, H=4m • Ø=20m, W=9m, H=4m

Key figures

45 years of casting experience on wide range of steel grades for nuclear or any other industries

+ 40 nuclear castings from 2015

2,100 tons cast since 2015

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