

Manufacturing of pressurizer for operating plants and new nuclear projects

Framatome Saint-Marcel is the manufacturer of reference for the Primary Loop Components

Challenge

Pressurizer is a High Integrity and Nuclear Safety related Component which meets the requirements of applicable construction codes and regulations. The conformity has to be demonstrated at each step of manufacturing.

Solution

Framatome's Saint Marcel plant manufactures primary loop components with the highest level of safety and quality. From design specifications to delivery all over the world, Framatome serves Nuclear Power Plants of all sizes. Capabilities are able for defense and navy activities. Full scope of responsibility:

- Design Engineering, Mechanical calculation and Licensing
- Manufacturing Engineering
- Prototyping and serial production
- Management of sub-contractors and suppliers
- In-house manufacturing and inspection (UT, X-Ray, pressure test)
- Worldwide transportation

Framatome relies on:

- Large industrial capacity of workshops
- ISO and ASME certified Quality Assurance System
- Certified ISO 17025 Laboratory

Customer benefits

- Safety and Quality Conformity
- Component ready for commissioning
- Internationally trusted supplier with a proven experience
- Flexible and large industrial capacity
- A plant managing the whole process (engineering, procurement, manufacturing, transportation and after-sales)

**Your performance
is our everyday commitment**



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Technical information

Pressurizers for a wide range of Nuclear Power Plants, 900 MWe to 1650 MWe

Typical materials : carbon and stainless steel, nickel base alloys,...

<u>Height</u>	11 – 13,5 m	} Typical size of Small Modular Reactor
<u>Diameter</u>	2,3 – 2,9 m	
<u>Weight</u>	79 – 146 tons	

<u>Pressure</u>	150 bars
<u>Temperature</u>	350 °C

- Construction codes: RCC, ASME, AFNOR, GHOST, SAE, ASTM
- International Regulations

Key figures

45 years of experience in manufacturing of heavy components for nuclear industry

> 77 Pressurizers Manufactured and Delivered to Customers by Saint-Marcel Plant since 1975

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