

Reactor coolant pump

Design, manufacturing, qualification and test for nuclear reactor coolant pump

Framatome Jeumont manages the whole scope for Reactor Coolant Pump from engineering to delivery, including full scale test and qualification

Challenge

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

Solution

Framatome's Jeumont plant manufactures primary loop coolant pumps with the highest level of safety and quality standards. The designed authority and the maintenance teams are located within the plant, allowing short loops between engineering, manufacturing and maintenance. High reliability spare parts can be delivered all along the pump lifetime.

Competitive solution in quality thanks to:

- ISO 9001, 14001, ASME Section III Division 1, NCA-3800, NCA-4000, NB/QAI-1, NCA-5125
- ISO9712 / SNT TC 1A lev. II & III NDT certified personnel
- Certified ISO 17025 Laboratory
- Large industrial capacity of workshops, including high precision machining, surfacic and 3D control
- Dedicated loop for full flow performance test
- Design authority and process engineering
- Efficient Supply Chain with a large panel of qualified sub-contractors and suppliers
- In-house production of casings
- Expertise available for non OEM pumps applications : PWR, BWR, VVER, Candu

Customer benefits

- Safety and Quality Conformity
- Internationally trusted supplier with a proven experience
- Flexible and large industrial capacity dedicated to plant mobile equipment
- A plant managing the whole process (design, engineering, procurement, manufacturing, test, transportation and maintenance)

Your performance is our everyday commitment



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Technical information

Reactor Coolant Pumps for a wide range of Nuclear Pressurized Water Reactors Plants

- **Weight: 90 - 110 t**
- **Height: 10 m**
- **Water flow: up to 30 000 m³/h**
- **Power: up to 10 000 kW**
- **Rotation speed: 1200 - 1500 rpm**

Construction codes: RCC-M ASME

Key figures

50 years of experience in manufacturing of mobile components for nuclear industry

> 300 Reactor Coolant Pumps
Manufactured and Delivered to Customers by Jeumont Plant since 1970

Contact: g-fra-pcm-sales@framatome.com
www.framatome.com

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