

Main coolant lines

Manufacturing of piping for operating plants and new nuclear projects

Framatome is the manufacturer of reference for the Primary Loop Components

Challenge

Main Coolant Lines are High Integrity and Nuclear Safety related Component and must comply with the requirements of applicable construction codes and regulations. The conformity has to be demonstrated at each step of manufacturing.

Solution

Located in Burgundy, Framatome's plants manufacture forged Main Coolant Lines (hot, cold, crossover legs) in stainless steel with the highest level of safety and quality standards. 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:

- Clean dedicated finishing workshop
- In-house production of forged parts with integrated nozzles
- Proven bending solution
- Narrow Gap Orbital TIG welding technology
- Welding of different type of nozzles



© Framatome

Technical information

Material : stainless steel

Length :

- Hot leg : 6890 mm
- Cold leg : 7910 mm
- Crossover leg : 9360 mm

Diameter :

- Ø Ext : 932 mm
- Ø Int : 780 mm

Weight :

- Hot leg : 12,4 tons
- Cold leg : 13,6 tons
- Crossover leg : 16 tons

Pressure 150 bars

Temperature 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

2 230 m² dedicated workshop at Saint-Marcel Plant

Customer benefits

- Safety and Quality Conformity
- Internationally trusted supplier with a proven experience
- Specific workshop for stainless steel components
- A plant managing the whole process (engineering, procurement, manufacturing and transportation)

**Your performance
is our everyday commitment**

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

It is prohibited to reproduce the present publication in its entirety or partially in whatever form without prior written consent. Legal action may be taken against any infringer and/or any person breaching the aforementioned prohibitions. Subject to change without notice, errors excepted. Illustrations may differ from the original. The statements and information contained in this publication are for advertising purposes only and do not constitute an offer of contract. They shall neither be construed as a guarantee of quality or durability, nor as warranties of merchantability or fitness for a particular purpose. All statements, even those pertaining to future events, are based on information available to us at the date of publication. Only the terms of individual contracts shall be authoritative for type, scope and characteristics of our products and services.