

High temperature piping solutions

For advanced modular reactor projects

Framatome manage design & forge manufacturing for high temperature piping, including tests & qualifications

Challenge

- Develop and qualify forged pipes for high temperature applications
- Industrialize and source forged pipes
- Cost optimization for serial production

Solution

Located in Burgundy, Framatome Le Creusot plant has industrial capabilities, competencies and experience for the manufacturing of nuclear island forged components. Thanks to its feedback experience, the plant is ISO 9001 & ISO 17025 certified and supports international regulations.

Framatome propose an integrated solution to design, qualify and manufacture high temperature pipes for coolant fluids such as Helium, Sodium, Molten salt, Lead up to 800°C.

- R&D and digital process simulation services to simulate the forging press and heat treatments to secure customers' needs
- Mechanical calculation to justify fitting with construction codes and ageing characteristics.
- Dedicated high competency teams to manage the full manufacturing of forged parts – ingot procurement, forging, heat treatment, characterization, final inspection and delivery.
- Significant capabilities and know-how in machining enabling to reach the final shape.

Customer benefits

- Process simulation and mechanical calculations
- Safety & Quality conformity
- Internationally trusted supplier with proven experience in nuclear industry
- Flexible and large industrial capabilities, including hydraulic testing solutions up to 265 bars
- Integrated solution from raw material to controlled finished pipes, including inspection & worldwide shipment

**Your performance
is our everyday commitment**



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Technical informations

- Length : up to 18 m
- Ø ext : from 0,5 to 2 m
- Thickness : according to your needs, depending on design code, pressure & Kv values
- Material grade : carbon steel or stainless steel (304 or 316) in standard, any other grade on request depending on design code
- Bended shape is available
- Integrated forged nozzle for a single piece pipe
- Machining processes : milling / boring / turning / drilling / sawing.

Key figures

More than 3500 delivered forgings in operation

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