

Control rod drive mechanisms

For new built Nuclear Power Plant and replacement projects

Framatome Jeumont manages the whole scope for Control rod drive mechanisms from engineering to delivery, including tests and qualification

Challenge

Control rod drive mechanism is a High Integrity and Nuclear Safety related Component which meets the requirements of applicable construction codes and regulations. Design applicable to difference reactors architecture can be achieved according to applicable to specific needs. Conformity demonstration at each step of design and manufacturing.

Solution

Framatome's Jeumont plant manufactures control rod drive mechanisms with the highest level of safety and quality standards. The designed authority and engineering teams are located within the plant, ensuring engineering, manufacturing and testing consistency.

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
- Design authority and process engineering
- Efficient Supply Chain with a large panel of qualified sub-contractors and suppliers
- Industrial means includes among others high precision machining, surface and 3D control.
- Dedicated equipment for hydrostatic pressure test (cold and hot)

Customer benefits

- Safety and Quality Conformity
- Internationally trusted solution with proven experiences
- Flexible and large industrial capacity dedicated to plant electro-mechanical equipment
- A plant managing the whole process (design, engineering, procurement, manufacturing, test, transportation and aftersales)

**Your performance
is our everyday commitment**



© Framatome

Technical information

Control rod drive mechanisms for a wide range of Nuclear Pressurized Water Reactor Plants

Operating rate : **75 steps/minute**

Translation by step : **10 mm**

Translation speed : **750 mm/min**

Total stroke : **4110 mm**

Coil Operating temperature : **250°C**

International construction codes

Key figures

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

> 6000 Control rod drive mechanisms
Manufactured and Delivered since 1970

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.