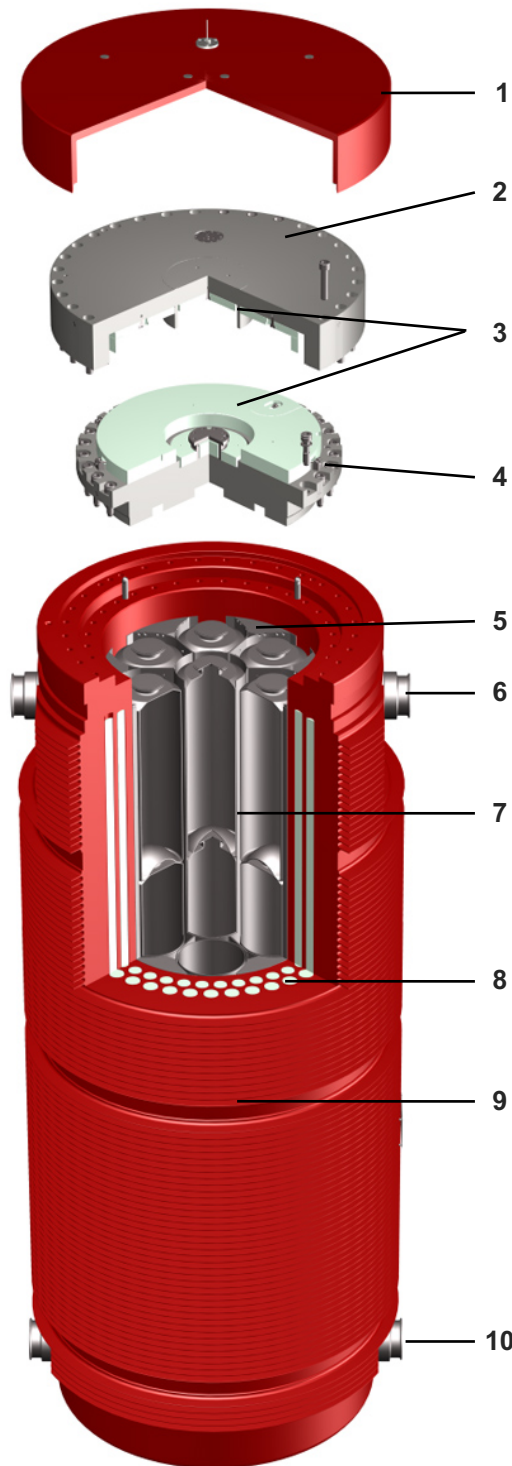


CASTOR® HAW28M

Transport and Storage Cask for Vitrified Waste



- Dual purpose cask specially designed for transport and storage of vitrified waste from reprocessing
- Fully compliant with the acceptance criteria in La Hague and Sellafield
- Based on over 40 years of experience and the proven design principle of the CASTOR® family

DESCRIPTION

The CASTOR® HAW28M is designed for the transport and interim storage of up to 28 canisters [7] with heat-generating vitrified waste from the reprocessing of spent fuel.

The cask consists of the thick-walled cylindrical cask body [9] made of ductile cast iron. For neutron moderation axial boreholes are drilled into the cask wall and filled with polyethylene moderator rods [8]. In addition, there are shielding elements in the basket [5], a moderator plate at the bottom and a multi-part moderator plate [3] on the top of the metal sealed primary lid [4]. In the storage configuration, a secondary lid [2] is tightly secured to the cask body and a protection lid [1] attached.

On the outside wall, radial cooling fins are machined to improve the heat transfer to the environment. Four trunnions are bolted for handling and fixing the cask onto the transport equipment [6, 10]. For transport on public routes the cask can be equipped with shock absorbers.

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LICENSES

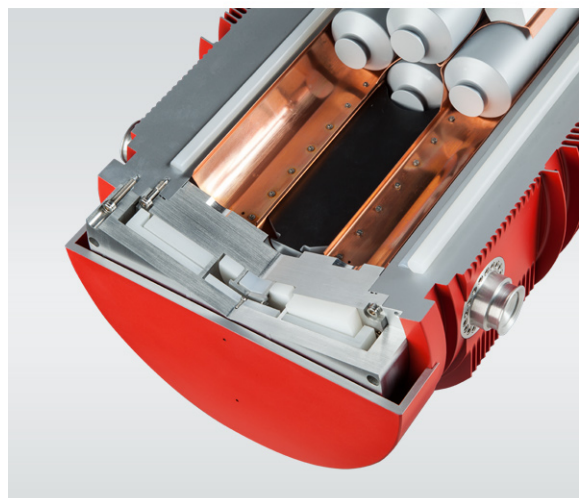
The CASTOR® HAW28M complies with the international regulations of the IAEA for type B(U)F package designs.

The cask complies with the acceptance criteria of the reprocessing plants in La Hague (F) and Sellafield (UK) and fulfills the requirements for transport by road, rail and sea. Furthermore the cask is approved for long-term interim storage in Germany and Switzerland.

REFERENCES

So far 21 CASTOR® HAW28M casks have been loaded in the course of return of HLW from the reprocessing plant La Hague (F) and stored in the Gorleben interim storage facility as part of the repatriation process, and six CASTOR® HAW28M casks from Sellafield are in the Biblis interim storage facility.

Further six casks are located in the Swiss interim storage facility ZWILAG.



TECHNICAL DATA

Cask Contents

- Max. 28 canisters with HLW
- Total thermal power: 56 kW
- Total activity: 1270 PBq

Dimensions and Weight in the Storage Configuration

- Overall height: 612 cm
- Outer diameter: 248 cm
- Cavity height: 518 cm
- Cavity diameter: 135 cm
- Cask weight empty: ≈ 100 t