



# Andritz Nuclear Technology

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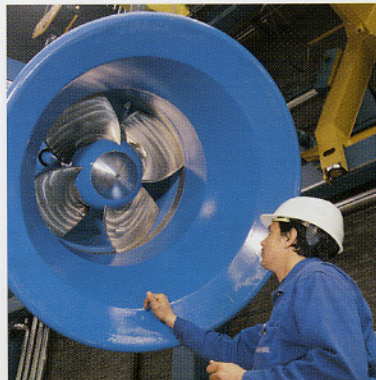
**ANDRITZ**

# Andritz Nuclear Technology

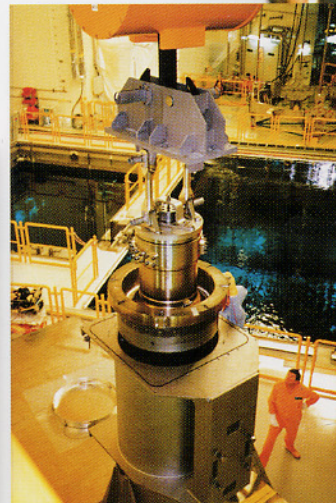
## Reactor components for the most exacting requirements

Andritz nuclear technology is a byword for high quality and safety. Power station operators all over the world have opted for Andritz technologies. They have confidence in our skilled staff, modern manufacturing methods and comprehensive quality and safety programs.

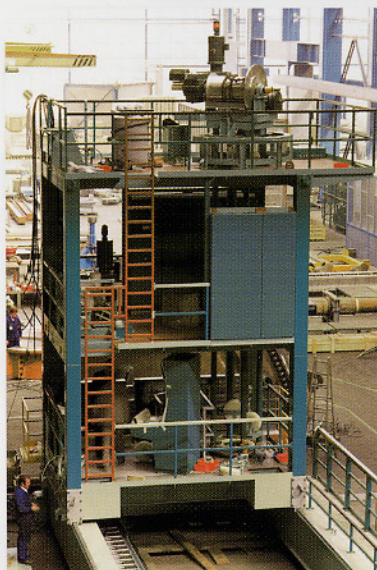
We offer special components (reactor coolant pumps, fuel element handling systems and cooling water pumps) for the primary and secondary loops.



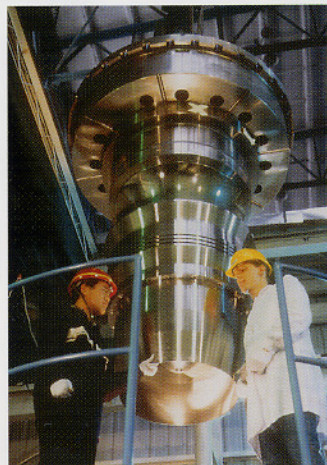
*Cooling water pump*



*Transport device*



*Fuel element handling machine*

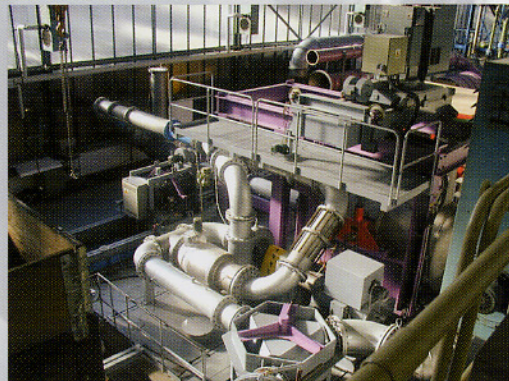
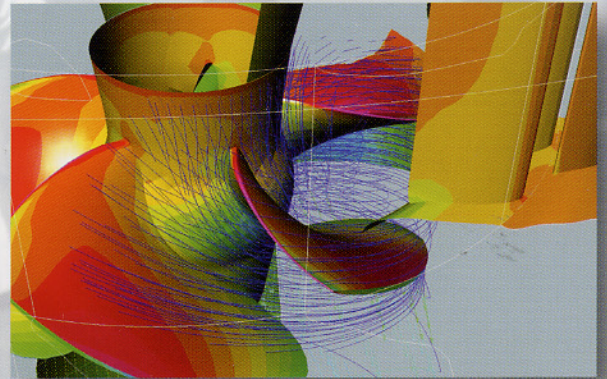


*Reactor coolant pump*

# We lead the development of Reactor Coolant Pumps

- **Ongoing development of hydraulic components**

→ Our development work is based on the most up-to-date methods and tools (finite element method, 3-D volume models, computational fluid dynamics) in designing hydraulic components.

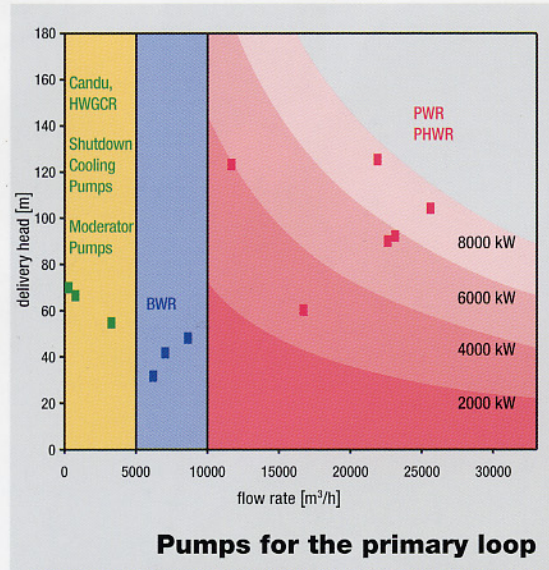


Conformity with the requirements of our customers is affirmed in model tests carried out at ASTRÖ, the state-authorized test institute which is a member of the Andritz Group.

# nt and manufacture ps

## ● Broad range of uses

→ Our systematic development work forms the basis of the broad range of uses for our pump hydraulics. Andritz reactor coolant pumps can be applied in any pressurized water reactor.

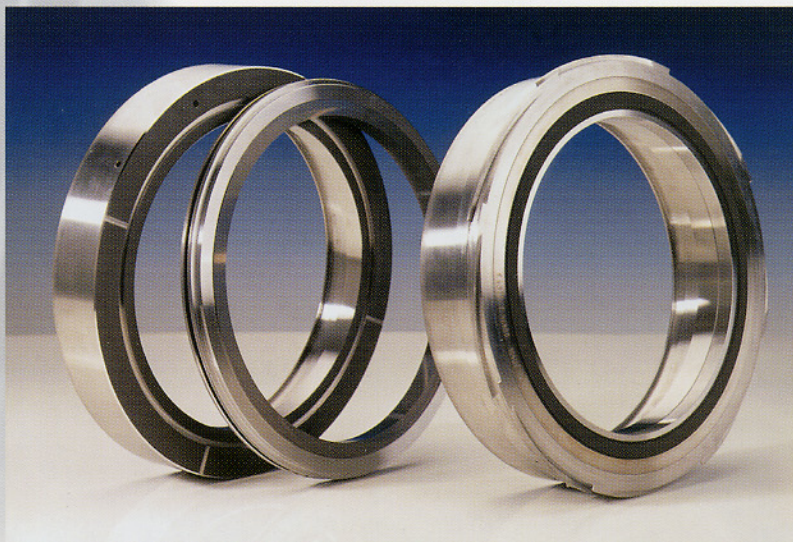


## ● Our highlights

### → hydraulic components made from forged blanks

All hydraulic parts of Andritz reactor pumps are milled from forged blanks.

The advantage is highest dimensional accuracy and material quality.



### → hydrodynamic mechanical seals

We use the two-stage and three-stage mechanical seals, which we have developed in house, to seal off the primary liquid loop.

On the world market, hydrodynamic mechanical seals made by Andritz rank in first place.

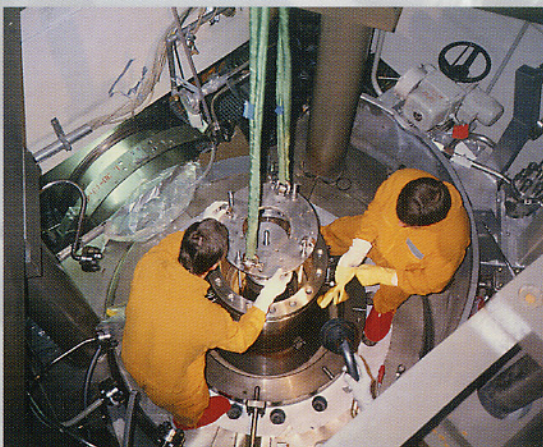


## Quality based on precision

Nuclear power station operators have confidence in Andritz. They appreciate our long experience in the field and the high quality level of our reactor technologies. With our highly skilled specialists, advanced fabrication processes and up-to-date machines we can meet the demand for highest precision in component manufacturing.

Our activities are governed by the following quality standards:

- ISO 9001: 2000; ASME-N, NPT, NS; KTA 1401, 1408.3; Safety Series No. 50-C/SG-Q



### ● Service:

- Benefit from the skills of our specialist engineers and fitters, who are here to fill your service needs in controlled areas, and who are available at short notice.

