



NUCLEAR
RESEARCH
INSTITUTE

Experimental Workshop Department Integrity and Technical Engineering Division



CONSTRUCTION AND MANUFACTURING OF TESTING EQUIPMENT, AUTOCLAVES AND LOOPS

Autoclave for Comissao Nacional Energia Nuclear, Brazil

Value for customers

- Integrated approach to providing services, starting with design and finishing with manufacturing, delivery and initiating pilot operation of required testing sets
- Completion and innovation of delivered sets with respect to their detailed knowledge and wide knowledge of latest technical solutions
- Large number of test equipment installations favorably affects their technical level and purchase price
- Experience with international equipment installations allows better understanding of suitable design of future applications

Applications

- Ensuring basic as well as applied research to obtain higher level of knowledge about material and component limit states, ensuring thus guaranty of safety and operation reliability of nuclear power plants

What we offer

- Design and complete manufacturing of equipment for application of special methods for specimen testing in conditions simulating environment of nuclear power plant circuits

Contact details

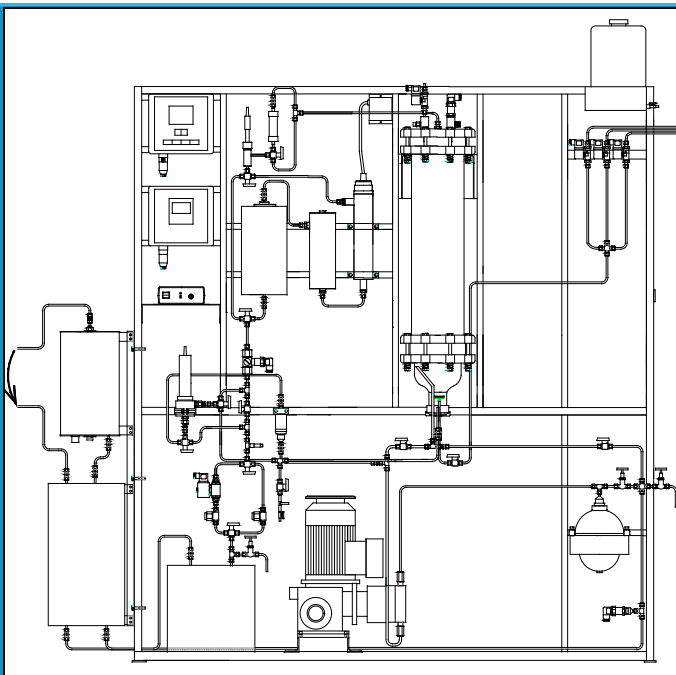
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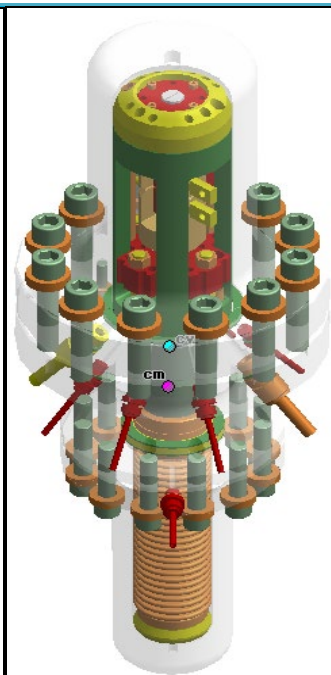
- Design process is closely associated with modeling in 3D graphic programmes. In this manner, high operative flexibility, beginning with design and manufacturing, and ending with final documentation and presentation, is assured
- Installation of test and measurement devices in NPPs
- Design and manufacturing of single purpose stands for chemical analyses and ultrasonic examinations
- Design and manufacturing of manipulators and manipulation tools

Our references

- Deliveries of testing sets within IAEA projects for research laboratories of Mexican and Brazil NPPs
- Deliveries of testing sets for operational systems of two Taiwan NPPs, produced with support of Industrial Technology Research Institute, Taiwan
- Joint project of design and manufacturing of manipulator for ultrasonic examinations of piping systems of Dukovany NPP, Czech Republic, in cooperation with NRG, the Netherlands
- Design and manufacturing of equipment for evaluation of material properties of reactor pressure vessel at Dukovany NPP, Czech Republic



Design preparation of laboratory loop for water treatment



Inner structure of autoclave for Kuosheng and Chinsan NPPs, Taiwan