

Nuclear technology

KASAG Swiss AG is a qualified nuclear technology subcontractor, based on our ASME and /or PED (AD2000 or EN13445) manufacturer's approval. We process stainless steel and special materials for you in accordance with nuclear standards relating to complete material traceability and quality documentation. With KASAG as your partner safety comes first.



The manufacture of components for nuclear power plants requires stringent compliance with procedures and places the highest demands on our qualified professionals.

The range of services that we provide consists of:

- Calculations in accordance with regulations, including FEM calculations
- Generation of manufacturing drawings
- Material procurement
- Support for acceptance testing of materials
- Preparation of test sequence plan (Traveller), materials and welded joint lists
- Production
- Performance of non-destructive testing
- Acceptance
- Packaging support and implementation

Additional services

In addition to our existing activities, we design complete modules, components, skids, panels, and plants. Furthermore, we offer specific services. These include comprehensive engineering on the basis of specifications as well as P&I diagram for your apparatuses and pressure vessels in 3D Inventor, including the piping required. We can also take over the comprehensive test procedures according to your requirements.

Materials

Austenitic, stainless steel (1.4307, 1.4571, ...)
Fully austenitic, stainless steel (1.4539, 1.4828, ...)
Duplex (1.4462, 1.4410, ...)
NiCrFeMo alloys with Ni > 40% (Inconel, Hastelloy, ...)
Al – Mn and Mg alloys (AlMg 4.5 Mn)

Surface treatment

Pickling, passivation, oxygen cleaning
Cleaning in accordance with DIN25410
Grinding, brushing



Nuclear technology for use worldwide



Testing procedures

- X-rays RT
- Dye penetrant testing PT
- Visual inspection VT
- Material testing/Positive Material Identification PMI
- Helium leakage testing LT
- Riboflavin test
- Pressure tests of up to max. 1000 bar
- Surface roughness testing Ra / Rz
- Ferrit calculations Fe
- Wall thickness measurement
- Video endoscopy
- Pressure-loss test (liquid)

Welding

Our certified experts are masters of MIG, MAG, TIG, Plasma and Orbital welding procedures. We exclusively use certified filler metals in our welding operations.

Certifications, manufacturer approvals

- ISO 9001 / ISO 3834-2
- PED (EN13445 / AD-2000)
- ASME (U-Stamp, Code Section VIII Div. 1)
- China Stamp (A1), China License
- TP TC 032/2013 (EAC), Customs Union

In addition to our existing manufacturing approvals, we are able to perform the respective approval procedures for almost every country around the world (e.g. Singapore, Japan, Malaysia, Canada, etc.)