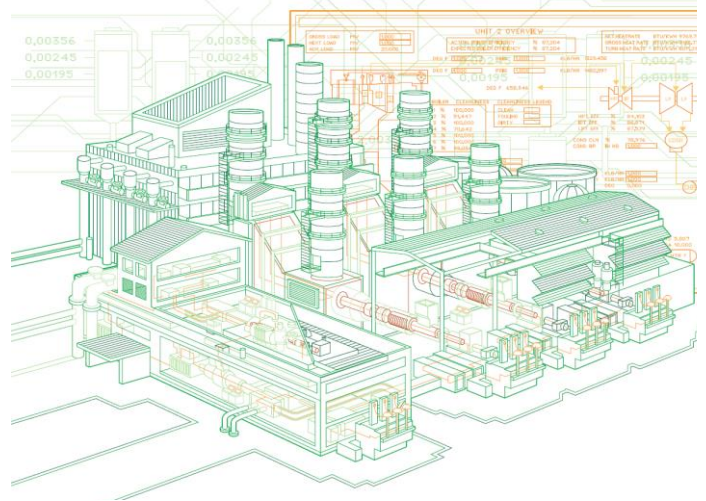


# Aartech GmbH – Swiss Manufacturing Experts

## Manufacturing competence for the Power Generation industry

Aartech GmbH, a former entity of ABB Full Service, offers a wide range of products and services for the power generation industry. Our experienced team builds up on decades of Know-how in the design and manufacturing of components and systems for power plants as well as the development and manufacturing of special machinery and equipment for factories and power plant construction sites. Please find below an overview about our references and



### Components for gas- and steam turbines

- Gas turbine combustors, hot gas path components, air guiding panels, burning chamber parts
- Machining of vanes and blades, blade assembling parts (locks and shims), diffusers, stator segments and heat shields, steam- and burner strainers
- Retrofit of gas turbine components (honeycomb seals removing and Re-soldering)

### Hydro and turbo generator parts

- Terminals and conductor bars (bending, machining and soldered in vacuum)
- Stator core segments production, including engineering and production of the related punching tools.
- Punching parts for small and high quantities

### Turbine auxiliary systems

- Gear pumps, valves, actuators and pressure transmitters for steam and lubricating oil supplies
- Rotor Turning gear devices for safety operation on the turbine rotors

### Material Experience

- Aluminum, copper alloys, titanium, nickel-based alloys such as Hastelloy X, Inconel, Nimonic), Insulations materials
- Machining of precision castings and forgings and SLM parts

### Factory and construction site equipment

- Engineering, manufacturing and commissioning of customized special machines
- Customized Measurement and Inspection - Tooling's
- Assembly equipment, transportation and lifting equipment for turbine and generator components
- tool cabinets fully equipped with special tools according customer specifications
- Special machines for milling and drilling operations on construction site
- Special machines for processing of conductor bars (drill punching / cutting, bending and measuring)
- Test equipment for pressure test and flow measurements of turbine components
- Engineering and manufacturing of grinding, milling, EDM and assembly fixtures for turbine blades manufacturing.

## Wide range of in-house manufacturing processes

- Machining (CNC milling / turning / grinding)
- Sinking EDM and wire EDM processing
- Assembly and Service Department
- Air controlled and conditioned assembly room
- Electrical-, pneumatic- and hydraulic assembly operations
- Construction and metalworking shop, hand and robot welding
- Sheet metal working (laser cutting, punching, bending, roll-bending, deep drawing, including assembly operations)
- Tool Sharpening Service (Punching and cutting tools)
- Heat treatment (annealing, tempering, nitriding, vacuum brazing, aluminum heat treatment)
- Surface treatments such as galvanizing and color treatments

## Additional Services

- Own design department (Solidworks)
- Professionals in purchasing and order management
- Strategic spare parts service according agreement
- Expedited spare parts manufacturing and overhaul
- Years of experience with just in time supply agreements
- Export packaging department at the plant
- Worldwide delivery including transportation and customs clearance.

## Quality Assurance & Certification

- ISO 9001:2015 Quality Management System
- ISO 14001:2015 Environmental Management System
- Work safety and Health Management System
- Re-stamping process for raw materials incl. 3.1 certificates
- Experienced with high requirements on quality documentation according customer specifications (FATR, FAI, COC)
- Material testing laboratory, air-conditioned 3D measuring machine

## Reference sites and projects

- Proud to deliver worldwide factories of ABB, Alstom, General Electric, Siemens and many others
- Projects EMEA: Koeln Niehl, Karlsruhe, GKM Mannheim, Grain, Medupi, Sohar, Massvlakte
- Projects APAC: Manjung, Tanjung Bin, Misamis, Yanbu, Pingwei,
- Projects AMER: Polk, Tracy, Texas City, Birdsboro

### Your personal contact:

#### **Aartech GmbH**

Swiss Manufacturing Experts

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