



MECHANICS & INDUSTRIAL APPLICATIONS

Your Issue Is Our Mission



Services for Hydro Power Plants



About Us

Afritechnics emerges from the deep collaboration of Italian and Zambian companies, with a long-standing industrial tradition and operates in the engineering and plant engineering sectors.

A solid know-how in Hydropower Sector has implemented over the last 40 years as part of a continuous partnership with the main power generation companies

Italian headquarter is located in Terni, Umbria, a pioneering area in the Hydropower field, where the first Hydropower Plant was built in the late of XIX century.



Our Facilities



Covered Production Area:
> 12.000 MQ



Workforce:
> 200 units



Annual Turnover:
> 20.000.000 €



Aim

The aim of **Afritechnics** is to offer its customers a unique interlocutor, capable of managing a wide range of services completely within its structure:

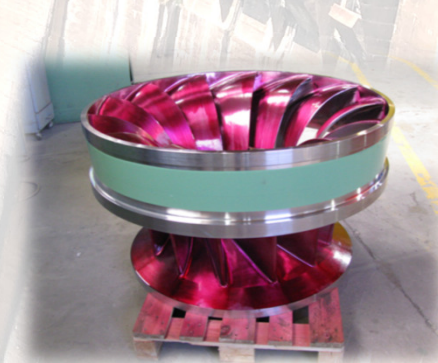
- Design
- **Technical due diligences** on hydropower plants to determine their value, the residual operating life, O&M costs
- **Reverse engineering** with implementation of specific solutions adopted with the aim of:
 - Increasing of overall efficiency
 - Reduction of the environmental impact
 - Increasing of operating time
 - Reduction of plant downtime / failure risk and maintenance costs





Aim

- Production of mechanical carpentry;
- Precision machining, performed by CNC machine centers, supported by modern CAD/CAM system
- Special overlay welding processes, able to increase performance and service life.
- Electrical plants (low & medium voltage) and industrial automation
- Design and implementation or refurbishment of Power Centers and Motor Control Centers
- Commissioning and decommissioning





Strengths

The strengths of this reality can be summed up in a few points:

- **Vast experience** gained over the years, developed as part of a solid partnership with the main power generation companies in Italy.
- **Wide range of services**
- Streamlined and dynamic structure granting **flexibility, upgrading and adaptability** to market needs;
- High standards of **Quality, reliability** and **competitiveness**.





Main Activities

- ❑ Hydraulic equipment refurbishment:
 - Turbines
 - Valves (rotary, butterfly, needle valves, etc)
 - Servo motors
 - Radial and axial bearing

- ❑ New spare parts production

- ❑ Damaged parts repairing

- ❑ Production of special accessories:
 - Trash rack cleaning machines
 - Stoplogs
 - Every type of Gates: flat shaft, flat on wheels, fan, sector, roof.

- ❑ Work on site



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