

thenex complete aftermarket support for Boilers

thenex is working with experienced engineering

partners in order to increase reliability and extend the lifetime of **boilers designed by IDROTERMICI and PENSOTTI e.g.**

We can offer a complete service and spare parts package for various boiler types (HRSG, fired firing units).

Let us know the problem with your steam generating equipment and we will 100% commit to finding a feasible and economic solution.



PRODUCT PORTFOLIO

- Concentrated Solar Power Receivers
- Heat Recovery Steam Generators
- Enhanced Oil Recovery Steam Generators
- Fired Boilers
- Waste Heat Recovery Boilers
- WTE & Biomass Boilers

MAINTENANCE AND OPERATION OF STEAM GENERATING EQUIPMENT

- Component Fabrication & Installation
- Engineering & Inspections
- Replacement & Spare Parts
- Emission Control Systems



Aftermarket Services

Turn-Key Coil Replacement •
Specialty Boiler Pressure Parts
Repair • Distribution Grids • Cyclic
Service Retrofits • Casing & Liner
Systems • Stack Dampers •
Condensate Management • Burners
& Burners Management System •
Rotor Air Cooler Repair & Replace •
Control and regulation system



Quality & Safety

- Quality is the primary focus
- ISO 9001 certified
- Safety is a top priority
- ISO 45001:2018 Certification is in place
- Continual improvement of our Safety Performances



Experience, Knowledge and Expertise

- Assist plant personnel
- identifying and prioritize the repairs during limited maintenance windows
- Long term repairs, upgrades and modifications
- Maximize reliability and longevity

ENGINEERING & INSPECTIONS

- Combustion system (Oil, gas, Solid waste, Biomass)
- Combustion chamber technology (Adiabatic walls or Membraned walls)
- Auxiliary equipment (Deaerators, pumps, fans, electric motors, steam turbines drives, burners)
- Flue gas treatment (ESP, Cyclones, SCR, Fabric Filters, Scrubber, CO catalyst)
- In line cleaning system (Hammers, Soot blowers, Showers)
- Ash conveyor system and ash storage system (Slags and fly ashes)
- Environmental emissions reductions
- Original spare parts
- Safety engineering

IDENTIFY POTENTIAL PROBLEM AREAS BEFORE THEY CAUSE COSTLY DOWN TIME AND THE NEED FOR MAJOR REPAIRS

- Performance analysis
- Test on emission
- CFD/FEM analysis
- Root cause analysis
- Circulation analysis
- NDT
- Residual life assessment
- Feasibility study
- CE-PED marking
- Corrosion /erosion
- Monitoring and analysis

SHELF SPARE PARTS, FABRICATE AND REPLACE IN KIND SPARE PARTS, OR DESIGN REPLACEMENT COMPONENTS WITH VALUE ADDED FEATURES

- Superheaters
- Evaporators
- Economizers
- Water membraned panels
- Headers and steam drums
- WTE/FB superheaters • WTE/FB economizers
- Special application of Alloy 625 overlay
- Adiabatic furnace