



Foster Wheeler Boiler Services

A Full Range of Capability



Service Equipment and Parts

With more than a century of designing, fabricating, erecting and starting our own equipment, we have the experience and capability to assess your boiler, recommend improvements, and predict the impact on performance, reliability and operation before any fieldwork is started.

Service is an integral part of our business. Preventive condition monitoring, expert maintenance, rapid response repair work, and replacement part deliveries are key factors in achieving maximum plant reliability and cost effective performance year after year.

Through service agreements, we provide comprehensive and cost effective maintenance programs, ranging from boiler inspections to outage equipment supply and construction services, resulting in minimum unplanned repair work.



Engineered Pressure Parts

We have been fabricating steam generation equipment for over 100 years. We can fabricate virtually any steam generator pressure part from highly complex redesigned coils and panels to simple in-kind replacement parts.

Our best-in-class-quality manufacturing capability and worldwide sourcing of tubing, piping and attachments enables us to meet your needs at market competitive pricing. We have a proven track record of significant cost reduction. In addition to offering quality products, we will make all shipping arrangements from our manufacturing facilities to your plant.



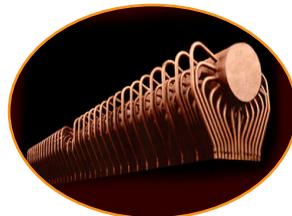
Bare Tube Coils



Cyclones



CFB Grid Floors



Replacement Headers



Weld Overlay Capability



Coils

Replacement Parts

We offer a full line of replacement parts for fossil steam plants. We have satisfied many customers with high quality replacement parts for our own units as well as for units manufactured by others. In fact, about half of our deliveries have been for non-FW units.

Our replacement parts are known for their world class quality, competitive pricing and short delivery schedules. We continually improve the design and materials of our replacement parts to consistently outperform original OEM parts. All our parts are backed by a comprehensive warranty and customer service second to none.



Double Shroud Air Nozzle



Exhaust Spider



Ceramic Lined Coal Inlet



Corner Fired SOFA Nozzle & Registers



Vortex Series Burner Tips



Replacement Ball Mill Drums



Double Shroud Coal Nozzle

Our service is backed by a global network of manufacturing, engineering and customer service centers that can meet the tightest schedules while achieving the most competitive pricing through global sourcing.



Condensers & Feedwater Heaters

Our condensers and feedwater heaters, supplied to utilities, industrial and marine customers, utilize a proven design to provide superior efficiency and availability, as well as compatibility with any turbine.

Condensers

We offer single, twin, and triple shell condensers in both rectangular or circular form. Our proven condenser equipment allows for up to four Coal Wash (CW) passes at single, dual, or triple pressure levels. With the ability to choose between a down-flow or axial design using either titanium, copper alloy, or stainless steel tube types, you can be certain that Foster Wheeler will provide you with the best condenser equipment, at the right price.



Feedwater Heaters

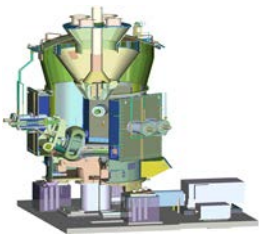
FW heat exchangers have been used in a wide range of applications in power generation and other industrial applications. With the ability to choose between a vertical or horizontal design and between straight or "U" shaped tubes, our feedwater heaters and heat exchangers can be manufactured for both high and low pressures. We also offer effective designs for all different zones in feedwater heaters; condensing, desuperheating, and sub-cooling.



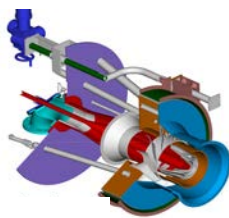
Low NOx Pulverized Coal Systems

We offer a full line of clean-burning pulverized coal combustion systems and components for new as well as retrofit applications. Our wall-fired Vortex Series and Tangential Low NOx combustion systems are the most economical and effective solutions for boiler NOx emission reduction and improved combustion performance. Each system application is designed to minimize NOx emissions without sacrificing combustion performance or unit reliability.

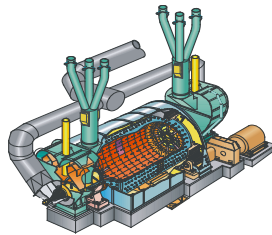
Our commitment is to give you the highest value low NOx system possible, backed by an extensive support team of experienced technical and project specialists. We analyze each application carefully to ensure the systems we provide will match the unit's operation capabilities and range of fuels.



Replacement Grinding Equipment for Vertical Mills



Vortex Series Low NOx Burner



Ball Mill

Construction Services

We offer full-service construction capability for new construction projects, outages, long term maintenance, and turnaround projects.

We have the capability to complete a job, maintain a safe work environment, and deliver quality work that meets or exceeds our customers expectations.

Our remote warehouse and administration structure allows us to deliver tools and tradesmen to your facility with as little as four hours' notice. We are recognized for our innovative heavy-lift execution strategies which have saved clients substantial time and money, and enabled work to be carried out more safely.

Manufacturing Facilities

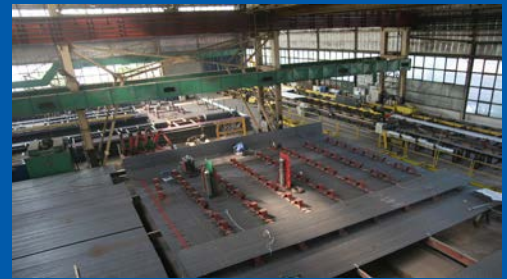


FW Power Machinery Company Limited

Established: 1997

Location: Xinhui City, China

Products & Services: CFB's, BFB's, Supercritical boilers, Arch-Fired, HRSG's, Replacement parts



FW Energy FAKOP Sp. z.o.o.

Established: 1995

Location: Sosnowiec, Poland

Products & Services: CFB's, BFB's, HRSG's, Oil & Gas, Package, Waste Heat, Heat Exchangers



FW Energia, S.A.

Established: 1977

Location: Tarragona, Spain

Products & Services: PC's, CFB's, BFB's, Ind. boilers, HRSG's, Package boilers, Auxiliary equipment



FW Service (Thailand) Limited

Established: 2000

Location: Bangcheng, Thailand

Products & Services: Pressure parts, CFB's, Waste Heat boilers, PC's, Specialized boiler spare parts



We offer a full range of steam generator equipment, aftermarket products and services to the power, industrial, and waste-to-energy sectors. Our global manufacturing and engineering network can deliver cutting edge products and expertise, quickly and cost competitively with best-in-class quality. Established in 1891, our experience comes from a heritage of designing, servicing, and continually improving steam generating equipment.

Engineering Services:

- CFD Analysis
- Metallurgical Analysis
- Physical Flow Modeling
- Unit Capacity Increases
- Engineered Unit Retrofits
- Life Extension Evaluations
- Residual Life Assessments
- Corrosion/Erosion/Fouling Analysis

Pressure Parts:

- Drums
- Risers
- Feeders
- Headers
- Reheaters
- Economizers
- Superheaters
- Transfer Lines
- Expansion Joints
- Boiler Water Walls
- Extended Surface Economizers

Maintenance Contracts:

- Full Maintenance Service
- Maintenance Management
- O&M Support: Condition Monitoring
- Process Operation Support Concept

Firing Systems:

- Ball Mill Pulverizers
- Overfire Air Systems
- T-Fired Low NOx Burners
- Firing Management Systems
- Roller Mill (MBF) Pulverizers
- Coal/Air Flow Balancing Retrofits
- Vortex Series Low NOx Wall Burners
- Coal/Air Flow Measurement Systems

Auxilliary Equipment Maintenance:

- Fans
- Stacks
- Pumps
- Condensers
- Precipitators
- Economizers
- Feedwater Heaters
- Tubular Air Heaters (Sleeving)

Field Services:

- Inspection
- Annual Maintenance
- Full Service Training
- Outage Management

Training:

- Maintenance Training
- O&M Instruction Manuals
- On-site Operator Training

Replacement Parts:

- Steam Ejectors
- MB and MBF Mills
- Lugs and Supports
- Ball Mills; Ball Charge
- Burners and Registers
- Pressure Parts and Headers
- Ceramic-lined Coal Conduits
- Riffled Tubing and Safe-ends
- Condensers & Feedwater Heaters
- Electronic Mill Maintenance Manuals
- Detnaformed® Desuperheater Liners
- Expansion Joints and Seals / Gaskets
- Access Doors; Dampers; Flues & Ducts
- Condensate & Circulating Water Pumps
- Complete OEM Replacement Parts Program
- Penthouse Seals & Lower Hopper Seals / Mesh

Construction Services:

- Planned Outages
- Forced Outage Repairs
- SCR and FGD Retrofits
- Long-Term Maintenance Agreements

Specialized Products:

- Fluidized Bed Retrofits
- Thermal Spray Coatings
- Refractory Installation and Repair
- Insulation, Lagging, and Refractory

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