

# B&W Products and Services

Established in 1867, Babcock & Wilcox (B&W) is a global leader in renewable, environmental and thermal technologies and services for power and industrial applications. As a worldwide provider of engineered solutions, our customers rely on us to provide a comprehensive portfolio of products and services in a wide range of power and industrial applications.

## Boilers, Steam Generators and Power

- Supercritical and ultra-supercritical boilers
- Subcritical (drum) boilers
- Waste-to-energy boilers (mass burn and refuse-derived fuel)
- Biomass boilers
- Fluidized-bed boilers (circulating and bubbling)
- Process recovery boilers
- Shop- or field-assembled water-tube package and industrial boilers
- Heat recovery steam generators
- Energy storage systems

## Environmental Equipment

- Carbon capture technologies
- Flue gas desulfurization (wet, dry, circulating, seawater)
- Dry sorbent injection
- Powdered activated carbon injection
- Electrostatic precipitators (wet, dry)
- Fabric filters (baghouses)
- Selective catalytic and non-catalytic NO<sub>x</sub> reduction systems
- ZLD spray dryers for wet FGD wastewater
- Energy recovery and water treatment

## Auxiliary Boiler Equipment

- Burners (coal, natural gas, oil, black liquor) and igniters
- Overfire air systems
- Pulverizers
- Combustion grates
- Air heaters – tubular and regenerative

## Boiler Cleaning

- Steam/air sootblowers
- Water cleaning
- Dual media cleaners
- Recovery boiler port rodders, liquor gun stations and cleaners
- Cameras and diagnostics
- Replacement parts and upgrades

## Cooling Systems

- Natural and mechanical draft wet cooling towers
- Air-cooled condensers and air fin coolers
- Hybrid wet/dry cooling systems
- Parallel condensing wet-dry systems (water saver type)
- Equipment replacement parts, repairs and upgrades
- Online monitoring

## Ash and Material Handling

- Under boiler bottom ash systems
- Remote dewatering systems
- Vacuum, pressure, combination and dense-phase fly ash conveying systems
- Mechanical conveyors
- Replacement parts and upgrades

## Applications

- Power plants
- Pulp and paper mills
- Petrochemical and oil and gas refineries
- Iron and steel mills
- Metals and mining
- Cement plants
- Waste-to-energy
- Food processing
- District heating and cooling
- General industry and manufacturing



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## Retrofits, Rebuilds, Upgrades and Replacement Parts

B&W's replacement parts and upgrade services are available for original equipment supplied by most manufacturers.

- Air system rebuilds
- Ash handling system replacement parts and upgrades
- Assured Stock Program® inventory management
- Balanced draft conversions
- Circulation upgrades
- Coal pipes and valves
- Cyclone furnace replacement
- DynaGrate® combustion grates
- Environmental equipment replacement parts and upgrades
- Expansion joints, flues and ducts
- FPS® lighters, scanners and control systems
- Fuel conversions and repowering
- Furnace pressure increases
- Pulverizer/mill component rebuilds, upgrades and replacement parts
- Sootblower parts and upgrades



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## Pressure Parts

- Boiler furnace walls and openings
- Boiler tubing
- Composite/weld overlay panels
- Economizers
- Superheaters and reheaters
- Steam drums, headers and attemperators

## Plant Optimization Systems and Controls

- Advanced diagnostic systems
- Cameras, sensors, temperature monitoring and gauges
- Control systems
- EvenFlow™ coal flow balancing system
- Flame Doctor® combustion diagnostic system
- FocalPoint™ combustion tuning and optimization
- Heat Transfer Manager® software
- Titanium® sootblowing controls and intelligent cleaning systems
- Vistacon™ industrial boiler controls

## Construction

- Deliver and erected (D&E) project execution
- General mechanical contractor
- Construction and engineering technology
- Plant maintenance programs
- Refinery turnaround services

## Engineering and Other Services

- Capacity assessment, upgrade and uprate studies
- Circulation and cycling analyses
- Combustion flow modeling
- Commissioning and start-up services
- Condition assessment and unit performance studies
- Laboratory corrosion and failure analysis
- Engineering studies
- Field engineering
- Operation and maintenance
- Technical training



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