

B&W Products and Services

Babcock & Wilcox (B&W) • Allen-Sherman-Hoff (A-S-H) • Diamond Power • FPS • GMAB • SPIG • Vølund

Established in 1867, Babcock & Wilcox (B&W) is a global leader in renewable, environmental and thermal technologies, services and engineered solutions for a wide range of power and industrial applications.

Boilers, Steam Generators

Supercritical, ultra-supercritical and subcritical boilers
Waste-to-energy boilers
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
Waste heat and sulfuric acid steaming equipment, packaged economizers

Applications

Power plants
Cogeneration
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

Decarbonization Technologies

BrightLoop™ chemical looping low-carbon hydrogen production
SolveBright™ post-combustion carbon capture
OxyBright™ oxy-combustion
BrightGen™ hydrogen combustion
Industrial, utility and community solar
Energy storage systems

Environmental Equipment

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_x reduction systems
Zero liquid discharge spray dryers
Energy recovery and water treatment

Ash and Material Handling

Allen-Sherman-Hoff® bottom ash systems
Remote dewatering systems
Vacuum, pressure, and dense-phase fly ash conveying systems
Mechanical conveyors
Replacement parts and upgrades

Auxiliary Boiler Equipment

Burners – low-NO_x coal, natural gas, oil, black liquor
FPS® ignitors, scanners, valves, controls and level measurement equipment
Overfire air systems
Pulverizers
Combustion grates
Air heaters – tubular and regenerative

Boiler Cleaning

Diamond Power® 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
Equipment replacement parts, repairs and upgrades
Online monitoring



continued ►

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
- Fuel conversions and repowering
- Furnace pressure increases
- Pulverizer/mill component rebuilds, upgrades and replacement parts
- Sootblower parts and upgrades

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

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 services
- Operation and maintenance
- Technical training



View and download any of our product and service literature from our website using this QR code.



Babcock & Wilcox

1200 E Market Street, Suite 650
Akron, Ohio, U.S.A. 44305
Phone: +1 330.753.4511

www.babcock.com    

The information contained herein is provided for general information purposes only and is not intended nor to be construed as a warranty, an offer, or any representation of contractual or other legal responsibility.

Allen-Sherman-Hoff, Assured Stock Program, BrightGen, BrightLoop, Diamond Power, DynaGrate, EvenFlow, FocalPoint, FPS, GMAB, Heat Transfer Manager, OxyBright, SolveBright, SPIG, Titanium and Velund are trademarks of The Babcock & Wilcox Company or its affiliates.

Flame Doctor is a trademark of Electric Power Research Institute, Inc.

© 2023 The Babcock & Wilcox Company. All rights reserved.



RENEWABLE | ENVIRONMENTAL | THERMAL

Established in 1867, Babcock & Wilcox is a global leader in renewable, environmental and thermal technologies and services for power and industrial applications.

For more information or to contact us, visit our website at www.babcock.com.