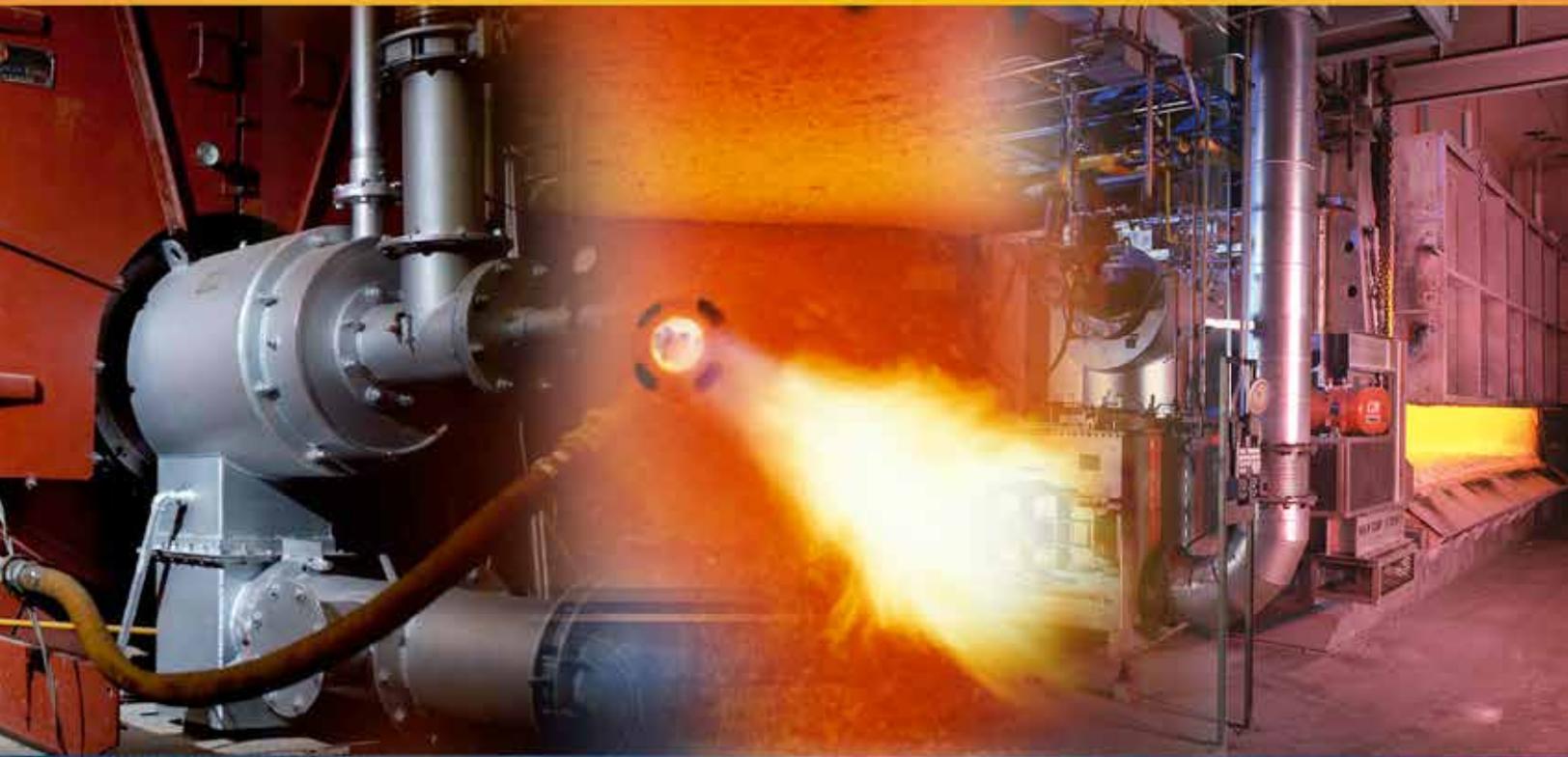


Bloom Combustion Services

Combustion Services that Keep You
Operating Safely and Efficiently



Safety • Environmental Stewardship • Product Quality • Productivity • Energy Efficiency

www.bloomeng.com

Your Single Source for Combustion Engineering Solutions & Services

For more than 80 years, Bloom Engineering has been supporting heavy industry with energy optimization and environmental management solutions, and much more, including:

- Safety & Environmental Compliance Programs
- Emergency Service & Preventive Maintenance Programs
- Modernizations & Upgrades
- Spare & Replacement Parts Programs
- Installations & Startups
- Consulting (Energy & Efficiency Audits and More)
- Training (Combustion Seminars & Custom Sessions)

Our comprehensive custom engineering solutions and intelligent support of industrial combustion processes, including burners & burner management systems, controls and refractory products, optimize the efficiency and safety of clients' operations worldwide.

Our Services

At Bloom Combustion Services (BCS), we understand that running a safe operation is good business, and we're committed to helping you achieve excellence in all aspects of your production activities by offering an ideal combination of engineering expertise and field support.

Safety & Environmental Compliance

We share your belief that injuries, accidents and environmental degradation are preventable. BCS is prepared to assist you with a wide range of compliance support and safety checks related to key regulations and codes:

- National Fire Protection Association (NFPA) 85/86
- OSHA MACT & RACT (Occupational Safety and Health Administration Maximum Achievable Control Technology & Reasonably Available Control Technology)
- Operational Support (Training, Work Procedures, Documentation)
- Upgrades & Modernizations to Improve Safety & Environmental Protection and Productivity & Quality



Emergency Service & Preventive Maintenance

BCS provides a full range of onsite and remote support for many types and makes of industrial combustion systems. Our ability to help you prevent outages and troubleshoot problems includes:

- Combustion Tuning
- RACT, MACT, OSHA and NFPA 85/86 Compliance Support
- PRO (Proactive Remote Operational) Support Package & Internet- and Phone-Based Support
- Troubleshooting & Corrective Maintenance
- Extended Warranty Programs





Key Markets & Applications

Market	Application(s)
Steel Reheat	Reheat & Tunnel Furnaces
Steel Strip Processing Lines	Continuous Galvanizing Lines (CGL), Continuous Annealing Lines (CAL), Silicon Lines & Non-Ox Furnaces
Steel Forge	Forging Furnace
Aluminum Melting/Holding	Melting & Holding Furnaces
Processing – Gas Reforming	Direct Reduced Iron & Steam Methane Reforming
Processing – Pelletizing	Pelletizing & Sintering Furnaces

Additional Services

Modernizations & Upgrades

Industrial combustion systems have working lives that can span decades. As demand for new products, tighter tolerances and more robust safety and environmental protection increases, BCS engineering and R&D professionals can breathe new life into your old equipment and make your facility state-of-the-art.

Benefits include:

- Improved Production Capabilities
- Improved Safety & Environmental Protection
- Ability to Broaden Your Customer Base
- Lower Energy Costs

Spare & Replacement Parts and Rebuilds

To meet production schedules, you need the right part supported by the right expertise at the right place and at the right time. BCS is a full-service supplier of replacement parts and cost-effective rebuild programs. We also offer root-cause component failure analysis and part stocking programs to help you minimize downtime.

Startup Support, Installation Supervision & Outage Management

In addition to supplying equipment, Bloom Combustion Services provides combustion process solutions. Our installation supervision and commissioning teams work seamlessly with customers and OEMs before, during and after installation to ensure that combustion processes are running as specified, on-time and on-budget.



Bloomengineering

Furnace Studies & Consulting

As the experts in state-of-the-art burners, burner control systems, CFD and combustion engineering, we'll help you and your team get the most out of your processes.

Bloom's world-renowned Combustion Lab is equipped with more than 20 furnaces for fundamental and applied R&D to support your commitment to safe and sustainable process excellence.

Whether you need assistance with answering technical questions or achieving strategic objectives, we have the knowledge to help you make informed choices and deliver measurable results.

Training That Works

Your people are your most critical asset. You trust them with large responsibilities and want them to succeed. At Bloom, we also have some great assets -- combustion experts who can impart practical knowledge based on many years of training and experience.

Schedule custom training at your location or ours, or attend one of our regularly scheduled regional combustion seminars by calling 412.532.4721.



Bloom Engineering has been providing custom engineering & intelligent support of combustion processes since 1934 and is a member of the Bloom Engineering Group, which has subsidiaries in China, England, France, Germany and India.

Comprehensive support for all major types & makes of industrial burners, burner management systems & related equipment.

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5460 Horning Road
Pittsburgh, PA 15236
Phone: 412.532.4721
service@bloomeng.com

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