PRODUCTS FOR STEAM AND PROCESS

**Burners**
- GLSF Free Jet Ultra-Low NOx Burners
- GB Low NOx Dual Fuel Burner
- Register and Venturi Style Retrofit Burners
- Fluid Bed Start-Up Burners and Gas Lances
- Over Bed / Over Stoker Start Burners and Support Burners
- DB-LN Duct Burners

**Pilots / Ignitors**
- Flexible Ignition / Warm-Up Guns for T-Fired Units
- Class 1 Gas / Oil Pilots and Warm-Up Guns
- Class 2 Gas / Oil Burner Support Pilots
- Class 3 Gas / Oil Pilots with HE capability
- Class 3 Special HE Only (Rigid and Flexible)

**Optimization Kits**
- Z-Jet Low NOx Kits (Gaseous and Liquid Fuels)
- Ultra-Low Steam Usage Atomizers and Tips

**Safety / Control Systems**
- Solid State
- Programmable PLC
- Single Point, Parallel Point
- Fully Metered Cross Limited Control
- O2 Trim, VFD Fan Draft Control

**Flexible Fuel Capability**
- Natural Gas
- No. 6 Fuel Oil
- No. 2 Fuel Oil
- Blended Oils
- Refinery Gases
- Waste Oils
- Opportunity Fuels
- Low Btu Gases
- Blast Furnace Gases
- Coke Oven Gases
- Landfill Gases
- High-Viscosity Fuels

**Utility and Industrial Burner Systems**
- Forced Draft Fans
- Windbox
- Fuel Trains
- Burner Management System (BMS)
- Combustion Control Systems
- Over-Fire Air Systems
- Flue Gas Recirculation (FGR)
- Scanner Systems

**SERVICES**

**On-Site Technical**
- Start-Up
- Installation Supervision
- Preventative Maintenance
- Service Contracts
- Operator Training
- Aftermarket Parts

**Flow Modeling Center**
- Physical and CFD Modeling
- Combustion Air Systems
- Flue Gas Recirculation Systems
- Over-Fire Air Systems
- Exit Gas / Stack Modeling
- Selective Catalytic Reduction

**Engineering Studies**
- Environmental Compliance
- Efficiency Audits
- Fuel Conversions
- Capacity Increase
- Carbon Footprint Reduction

**Turnkey**
- Coordinating Supply
- Equipment Modification
- Demolition / Installation
- Start-Up
- Operator Training
- Site Management

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Comprehensive Engineering Studies
- Environmental Compliance
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Burners
- T-Fired and Wall Fired Burner Systems
- Ultra-Low and Low NOₓ (all fuels)
- Retrofit Kits
- High Efficiency
- Opportunity Fuels
  - Landfill Gas, Waste Gas
- Firing System Optimization

Services
- Full Turnkey Services
- Coordinating Supply
- Equipment Modification
- Demolition / Installation
- Start-Up
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- Site Management

Primary / Secondary Air Systems Flue Gas Flow Modeling
- Physical and CFD
- Combustion Air Systems
- Flue Gas Recirculation
- Over-Fire Air Systems
- Exit Gas / Stack Modeling
- Selective Catalytic Reduction
- Pressure Drop Reduction
- Increase Efficiency

Pilots / Ignitors
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- Class 3 Special HE Only (Rigid and Flexible)

Optimization Kits
- Z-Jet Low NOₓ (Gaseous / Liquid Fuels)
- Ultra-Low Steam Usage Atomizers and Tips
- Flame Scanners
  - UV / IR Flicker Frequency
- Flexible Fiber Optic
- Visible Light

Safety / Control Systems
- Solid State
- Programmable PLC
- Single Point, Parallel Point, Fully Metered Cross
- Limited Control
- O₂ Trim, VFD Fan Draft Control

Liquid Fuel Atomizers
- Waste Oils
- Blended, Light, Heavy Oils

Fuel / Air System Upgrades
- Cost-Effective Solutions
PRODUCTS FOR STEAM AND PROCESS

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SERVICES

**On-Site Technical**
- Start-Up
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- Unit Up-Rate
- Equipment Upgrades
- Capacity Increase

**Safety / Control Systems**
- Combustion Control
- Burner Management
- Draft and Feedwater Control

**Flame Scanners**
- UV
- Flexible Fiber-Optic
- Visible Light
- IR, IR Flicker Frequency

**Tangential and Wall Burners**
- Ultra-Low and Low NOx
- Retrofitting
- High Efficiency
- Opportunity Fuels
- Firing System Optimization
- Stoker Aux. Gas / Oil Burners
- Opportunity Fuels
  - Landfill Gas, Waste Gas, Coke Oven Gas, Blast Furnace Gas

**Primary / Secondary Air Systems Flue Gas Flow Modeling**
- Increase Efficiency, Turndown
- OFA Optimization
- Combustion Air System / FGR
- Stack Modeling
- Optimize Fuel / Air Mixing
- Reduce System Pressure Drop
- Lower O₂, CO, NOx, Carbon Footprint
- Eliminate Vibration

**Warm-Up Burners**
- Gaseous / Liquid Fuels

**Liquid Fuel Atomizers**
- Heavy, Blended, Light Oils
- Waste Oils

**Technical and Installation Services**
- Start-Up
- Preventative Maintenance
- Operator Training
- Full Turnkey Services
- Service and Repair

**Pilots / Ignitors**
- HE Direct Spark
- Specialty Fuels
- NFPA Class 1, 2, 3; Gas and Oil

**Fuel / Air System Upgrades**
- Cost-Effective Solutions
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## Services

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**Fuel / Air System Upgrades**
- Cost-Effective Conversions

**Burners**
- Start-up Burners
- Over Bed Burners
- Duct Burners
- Elbow Duct Burners
- Firing System Optimization
- Bed Lances

**Primary / Secondary Air Systems**
**Flow Modeling**
- Increase Efficiency, Turndown
- OFA Optimization
- Combustion Air System
- Optimize Fuel / Air Mixing
- Reduce System Pressure Drop
- Lower $O_2$, CO, NOx, Carbon Footprint
- Eliminate Vibration

**Technical and Installation Services**
- Full Turnkey
- Start-Up
- Preventative Maintenance
- Operator Training
- Service and Repair

**Liquid Fuel Atomizers**
- Waste Oils
- Blended, Light, Heavy Oils

**Flame Scanners**
- UV
- Visible Light
- Flexible Fiber-Optic
- IR, IR Flicker Frequency

**Safety / Control**
- Combustion Control
- Draft and Feedwater
- Burner Management

**Pilots / Ignitors**
- NFPA Class 1, 2, 3; Gas and Oil
- HE Direct Spark
**PRODUCTS FOR STEAM AND PROCESS**

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**Duct Burners**
- Low NOx and Low CO
- Retrofit Kits
- High Efficiency
- Firing System Optimization
- Opportunity Fuels
  - Landfill Gas, Waste Gas, Refinery Gas

**Technical and Installation Services**
- Preventative Maintenance
- Full Turnkey
- Start-Up
- Service and Repair

**Liquid Fuel Atomizers**
- Light, Heavy, Blended Oils
- Waste Oils

**Pilots / Ignitors**
- NFPA Class 1, 2, 3; Gas and Oil
- Specialty Fuels
- HE Direct Spark

**Safety / Control Systems**
- Solid State
- Programmable PLC
- Single Point, Parallel Point, Fully Metered Cross Limited Control
- O2 Trim, VFD Fan Draft Control

**Flame Scanners**
- IR, IR Flicker Frequency
- UV

**Fresh Air / Turbine Exhaust Systems (TEG) Flow Modeling**
- Physical / CFD Flow Modeling
- Turbine Exit / Ductwork / Burner
- Eliminate Vibration
- Lower O2, CO, NOx, Carbon Footprint
- Increase Efficiency, Turndown
- Reduce System Pressure Drop
- Optimize Fuel / Air TEG Mixing

**Fuel / Air System Upgrades**
- Cost-Effective Solutions
- Opportunity Fuels

**ZEECO® FIRING SYSTEMS - HRSG BOILERS**
# Products for Steam and Process

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- Coke Oven Gases
- Landfill Gases
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# Services

## On-Site Technical
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**Comprehensive Engineering Studies**
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- Fuel Conversions
- Unit Up-Rate
- Environmental Compliance
- Carbon Footprint Reduction
- Equipment Upgrades

**Technical and Installation Services**
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- Start-Up
- Preventative Maintenance
- Operator Training
- Service and Repair

**Burners**
- Ultra-Low and Low NOx
- Low Opacity
- High Efficiency
- Firing System Optimization
- Opportunity Fuels
  - Blast Furnace Gas, Landfill Gas, Coke Oven Gas, Waste Gases

**Safety / Control Systems**
- Burner Management
- Combustion Control
- Draft and Feedwater Control

**Liquid Fuel Atomizers**
- Waste Oils
- Blended, Light, Heavy Oils
- Ultra-Heavy Fuels
- Flexible

**Pilots / Ignitors**
- NFPA Class 1, 2, 3
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**Air Systems / Flow Modeling**
- Flue Gas Recirculation
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**Flame Scanners**
- UV
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- Flexible Fiber-Optic
- IR, IR Flicker Frequency
- Fiber-Optic Extensions

**Equipment Upgrades / Modifications**
- FGR Addition
- Fans
- Dampers