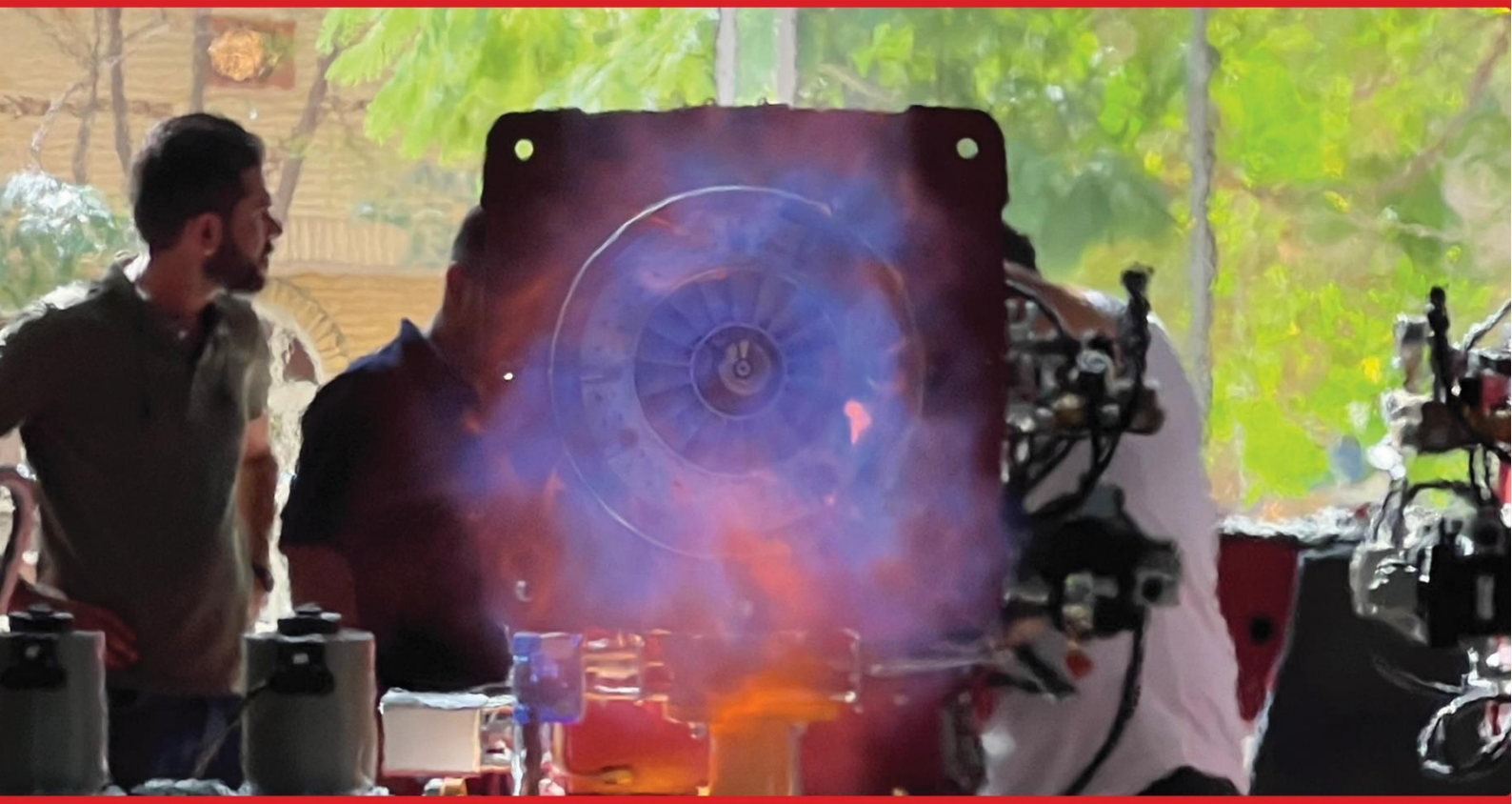
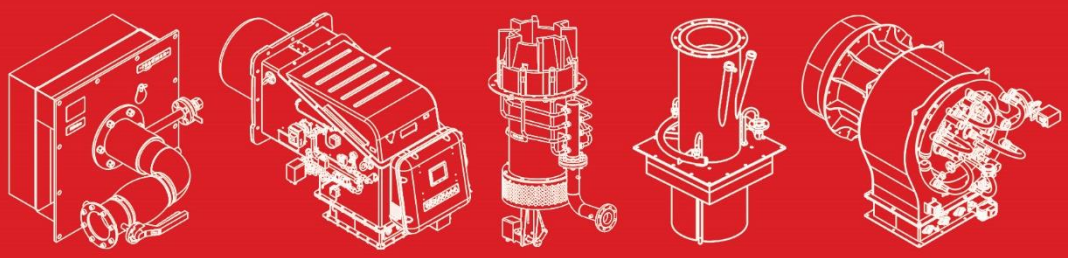
- raadman -
Burner

- SMILE INTO THE FUTURE -



Burners for Oil, Gas, Petrochemical, and Refining Industries



Electrical Modulating Mono Block Burner

Capacity Range: 160 kW to 25,000 kW
Fuels: Natural Gas, LPG, Light Oil, Heavy Oil
Operation: Electrical Modulating
Control System Up To 6 MW: Siemens, Lamtec
Control System Higher Than 6 MW: AutoFlame, Siemens
Pollution Class: II or III Class of NOx According to the BS-EN 676 And BS-EN 267
Advantages: High precisions, Air/ratio PID Control via Independent Actuators, Optimal Design, High Modulating Ratio, Lack of Hysteresis Error, Low Sound Emission, Ease of Installation and Maintenance, History of Errors, Intelligent Operation, Low Excess Air Operation (Higher Efficiency)
Design Standards: BS-EN 676, BS-EN 267
Application: Hot Water Boilers, Steam Boilers, Thermal Oil Boilers, Water Tube Boilers, Furnaces, etc.

Premixed Burner

Capacity Range: 125 kW to 4,000 kW
Fuels: Natural Gas, LPG
Operation: Electrical Modulating
Control System: Siemens
Pollution Class: Ultra Low NOx According to the BS-EN 676
Advantages: Optimal Design, High Modulating Ratio, High Performance Suitable for Condensing Boilers, Low Sound Emission, High efficiency
Design Standards: BS-EN 676
Application: Fire Tube Boilers, Condensing Boilers

Furnace Burner

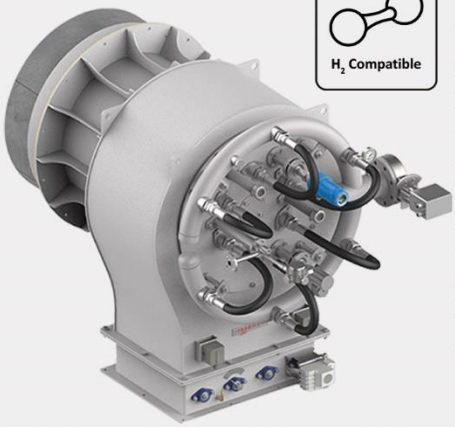
Capacity Range: 1.3 MW to 6 MW
Fuels: Natural Gas, LPG, Light Oil, Heavy Oil
Operation: Electrical Modulating
Pollution Class: Low NOx
Advantages: Low NOx, Compact Stable Flame, Available in A Wide Range of Sizes, High Turndown, Easy Operation, Low Maintenance
Design Standards: API 535, BS-EN 676, BS-EN 267
Application: Fired Heaters, Vertical Boiler, Industrial Furnace

High Velocity Burner

Capacity Range: 200 kW to 1 MW
Fuels: Natural Gas, LPG, Low Calorific Value Gas
Pollution Class: Low NOx
Advantages: Low Excess Air, High Velocity Flame, Available in a Wide Range of Sizes, High Turndown Ratio, Easy Operation, Low Maintenance
Design Standards: BS-EN 746-2
Application: The Precious, Non-ferrous, and Light Metal Sectors, Light Metal Sector, Thermal Incinerator, Dryer, Hot air Generator, Ceramic Furnace, Metallurgical Furnace and other Industrial Furnace

Dual Block Burner

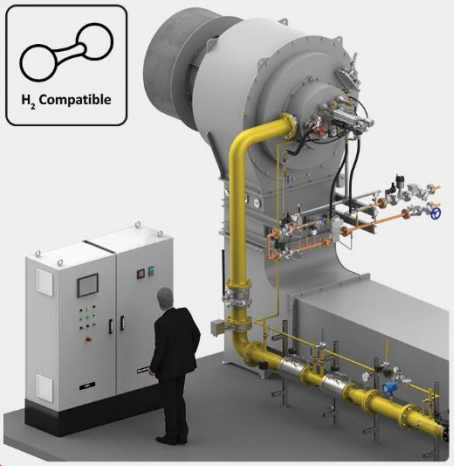
Capacity Range: 1,000 kW to 45,000 kW
Fuels: Natural Gas, LPG, Light Oil, Heavy Oil
Operation: Electrical Modulating
Control System: AutoFlame, Siemens
Pollution Class: II or III Class of NOx According to the BS-EN 676 and BS-EN 267
Advantages: Dual Block Optimal Design, High precisions, Air/ratio Control, Modular Configuration, High Modulating Ratio, Air/ratio PID Control Via Separate Actuators, Low Sound Emission, Ease of Installation and Maintenance, History of Errors, Intelligent Operation, Low Excess Air Operation (Higher Efficiency)
Design Standards: BS-EN 676 and BS-EN 267
Application: Hot Water Boilers, Steam Boilers, Thermal Oil Boilers, Water Tube Boilers, Furnaces, etc



H_2 Compatible

R-Hydro Burner

Capacity Range: 10 MW to 40 MW
Fuels: Hydrogen Blends, Purge gas, Off gas, Natural Gas, LPG, Light Oil
Operation: Electrical Modulating
Control system: AutoFlame / Customized control system / PLC
Pollution class: Low NOx
Advantages: High Turndown Ratio, Material According to Customer Requirements, Optimal Design, Optimized Flame Geometry, Modulating Operation, Low Sound Emission, Ease of Installation and Maintenance, Equipped with ATEX Certified Accessories (Optional)
Design Standards: NFPA 85, API 535, BS-EN 676, BS-EN 267
Application: Water Tube Boilers, Petrochemical Furnaces



H_2 Compatible

R-WT Burner

Capacity Range: 2 MW to 60 MW
Fuels: Hydrogen Blends, Purge Gas, Off Gas, Natural Gas, LPG, Light Oil, Heavy Oil
Operation: Electrical Modulating
Control System: AutoFlame / Customized Control System/ PLC
Pollution Class: Low NOx
Advantages: High Turndown Ratio, Material According to Customer Requirements, Optimal Design, Optimized Flame Geometry, Modulating Operation, Low Sound Emission, Air/fuel Staging for Low NOx Operations, Durable and Robust Operation, Equipped with ATEX Certified Accessories (Optional)
Design Standards: NFPA 85, API 535, BS-EN 676, BS-EN 267
Application: Power Plant Boilers, Water Tube Boilers

Multi Flame Burner

Capacity Range 600 kW to 10,500 kW
Fuels: Natural Gas, LPG, Light Oil, Heavy Oil
Operation: Electrical Modulating
Control System Up To 6 MW: Siemens, Lamtec
Control System Higher Than 6 MW: AutoFlame, Siemens
Pollution Class: II Class of NOx According to the BS-EN 676 And BS-EN 267
Advantages: Optimal Design, High Modulating Ratio, High Performance Suitable for Water Tube Boilers, Low Sound Emission, Optimized Flame Geometry
Design Standards: BS-EN 676, BS-EN 267
Application: Water Tube Boilers, Dryers, Furnaces with Small Combustion Chamber

H_2 Compatible

R-Sun Burner

Capacity Range: 1.3 MW to 8 MW
Fuels: Hydrogen Blends, Natural Gas, Refinery Fuel Gas, Refinery Purge Gas
Pollution Class: Ultra Low NOx
Advantages: Cold Air, Preheated air up to 350 °C,High Turndown Ratio, Material According to Customer Requirements, Up Fired, Down Fired, and Horizontal Installation, Common or Individual Plenum, Compact Stable Flame, Available in A Wide Range of Sizes, Easy Operation, Low Maintenance, Radial Air Register That Ensures Optimal Air Distribution and Control, Equipped with ATEX Certified Accessories (Optional)
Design Standards: API 535, API 560
Application: Fired Heaters, Reformers or Similar Furnaces in The Petrochemicals Industry

H_2 Compatible

R-Shine Burner

Capacity Range: 100 kW to 1000 kW
Fuels: Hydrogen Blends, Natural Gas, Refinery Fuel Gas, Refinery Purge Gas
Operation: Manual
Pollutiotn class: Low NOx
Advantages: High Turndown Ratio, Material According to Customer Requirements, Cold air, Preheated air up to 350 °C, Symmetrical flame, High Temperature Application such as Reformers and Cracking Furnaces, Optimal Design, Round Flat Flame, Low Sound Emission, Ease of Installation and Maintenance, Equipped with ATEX Certified accessories (Optional)
Design Standards: API 535, API 560
Application: Radiant Wall Furnaces, Petrochemical Furnaces

H_2 Compatible

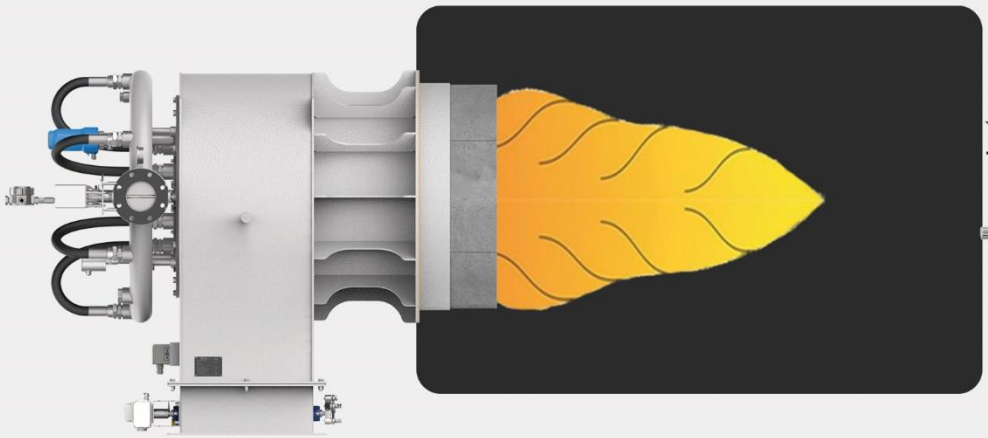
R-Arc Burner

Capacity Range: 1 MW to 4 MW
Fuels: Hydrogen Blends, Natural Gas, Refinery Fuel Gas, Refinery Purge Gas
Operation: Manual
Pollution Class: Low NOx
Advantages: Down Fire Burner, Ability to Install on Furnace Roof, Operate with Preheat air up to 350 °C, Ultra Low NOx, Compact Stable Flame, Common or Individual Plenum, Available in a Wide Range of Sizes, Compatibility with Various Fuels Such as Natural Gas and Hydrogen Blends, High Turndown Ratio, Easy Operation, Low Maintenance
Design Standards: API 535, API 560
Application: Reformers or Other Furnaces in The Petrochemicals Industry

Burner Ventilation System (BVS) and Raadman Motor Starter (RMS)

Air Flow Rate: 8,000 Nm^3/hr. to 150,000 Nm^3/hr, customized sizes are also available.
Design Specifications: SWSI or DWDI Design, Capable to Design in Various Arrangements
Fan Speed: Standard Speeds are 1500 RPM or 3000 RPM and Other Speeds upon Customer Request, Optional Variable Speed Drive (VSD/VFD)
Advantages: Low Vibration, Turbine Driver or Motor Driver, Equipped with Flexible Spacer Type Coupling for Easy Maintenance, Equipped with Inlet Guide Vane, Electrically Efficient, Optional Silencer and Sand Trap Louvers, Ease of Installation and Maintenance, Durable and Robust operation, Equipped with Temperature Sensor and Vibration Probe on Bearing Housing (Optional)
Standards: API 673, AMCA Standards
Application: Combustion Air supply

Burner Management System and Accessories



Temperature sensor

Flue Gas Probe

EGA

AutoFlame

Exhaust Gas Analyzer

O_2 CO_2 CO NO NO_2 SO_2

Servomotors

AutoFlame Servomotors

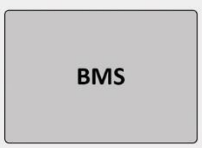
Igniter

PLC

Durag Igniter

Flame Scanner

Light Oil



BMS

Gas Train

Raadman Igniter

Durag Flame Scanner

Control Valve

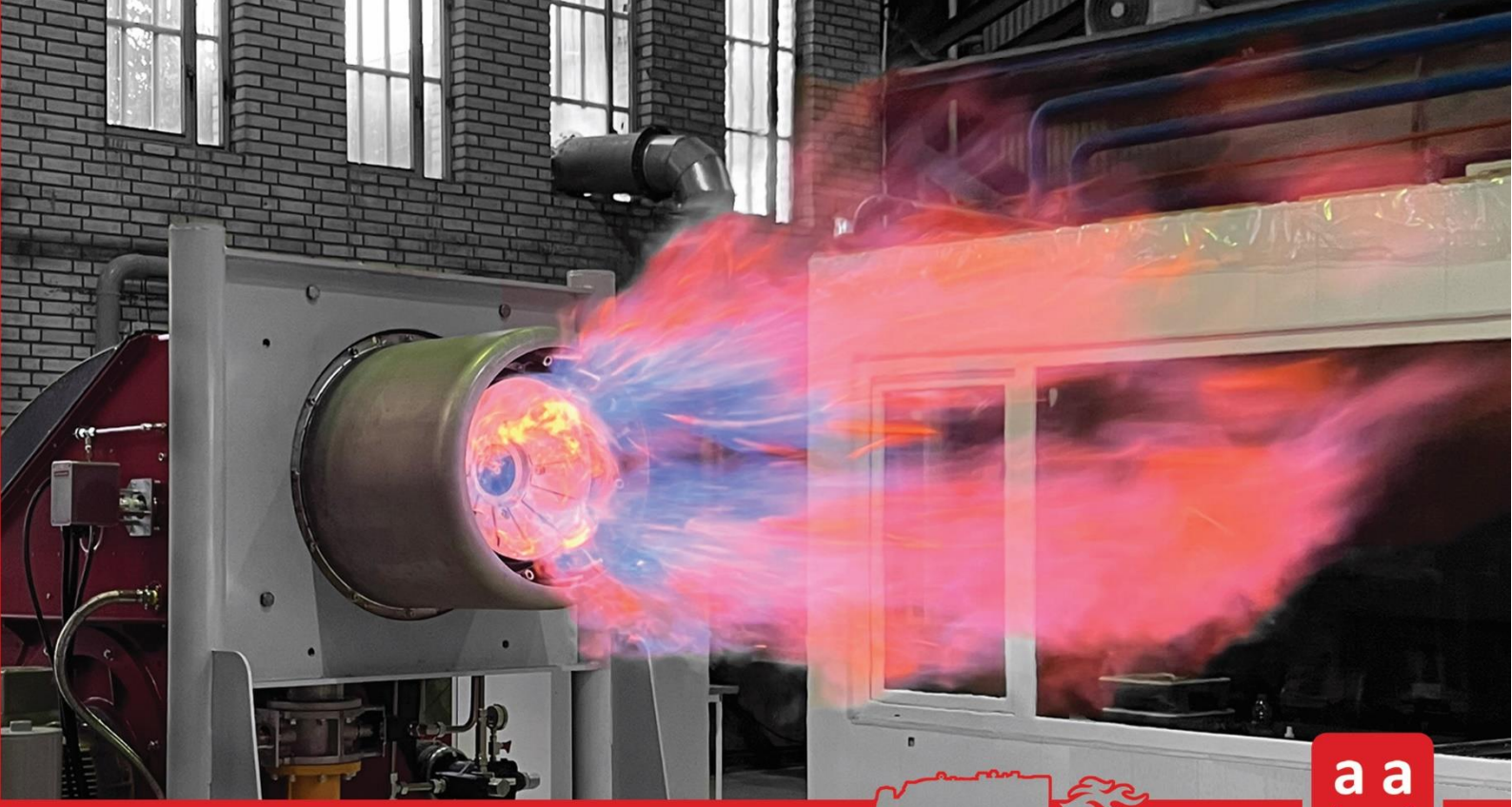
Gas Pressure Switch

Air/Gas Pressure Sensor

Oil Solenoid Valve

Oil Pressure Switch

AutoFlame Flame Scanner



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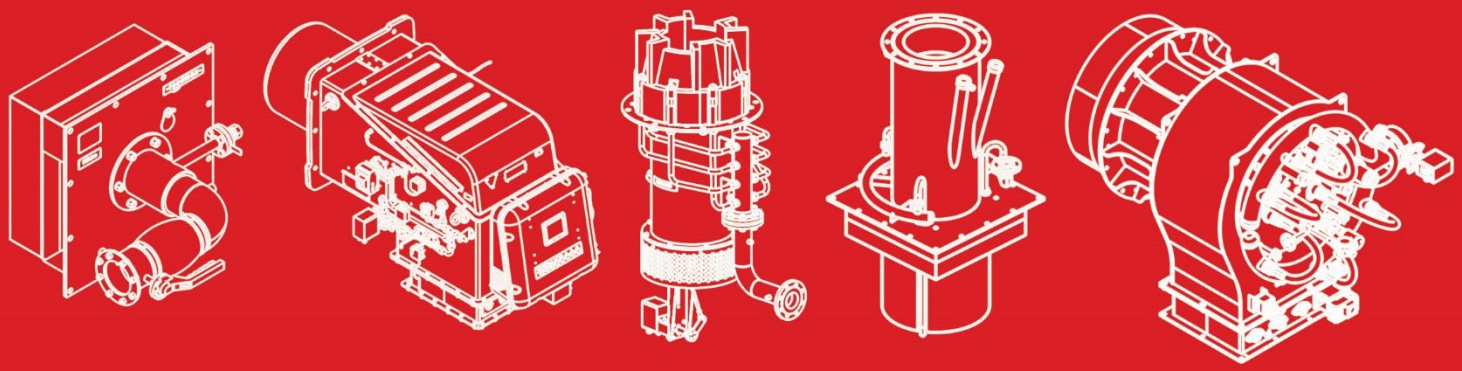
Proudly presents the cutting-edge technology in HYDROGEN blend Burners, applicable in Reformers, Fired heaters, Furnaces, and Steam Generation Units in various industries.

Applications

Boilers, Steam Units
Fired Heaters
Reformer Furnaces
Carcking Furnaces



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