

**Honeywell** | Connected Industrial

# HONEYWELL ASPHALT PERFORMANCE SOLUTIONS

Trusted Technology, Greater Expertise.





## Unmatched Experience & Innovation

Honeywell is building on our strong legacy to provide products and solutions that help asphalt and aggregate drying customers better serve the global road building industry to address their toughest challenges.

Honeywell asphalt performance solutions streamline integration, installation and end-user interaction while reducing emissions, improving efficiency and performance. Our combustion systems are engineered for flexibility and compatibility with an extensive service and support network.



## **Integrated Solutions**

As a leading global technology provider, Honeywell Thermal Solutions is dedicated to providing technologically advanced burners and controls for asphalt plant and aggregate drying combustion systems. Enhancing these products is a complete offering of flame safeguard controls, valves, actuators, electronic process controls, measurement devices, and superior customer support from our worldwide service organization.

## **Rely on Proven HAUCK Solutions**

Honeywell's trusted HAUCK product line for the asphalt and aggregate drying industry is second-to-none. For over 120 years, the brand has been synonymous with the most reliable burners for combustion applications involving asphalt, aggregate, sand, and other materials. Our NFPA 86-compliant solutions include state-of-the-art combustion and process control systems for virtually any rotary drying application.

We are at the forefront of multi-fuel combustion with systems that are compatible with a host of different fuels, including:

- Natural Gas
- Light Fuel Oil #2
- Heavy Oil #4, #5 and #6
- Waste or Reclaimed Oil
- Liquid & Vapor Propane
- Liquid & Vapor Butane



# Best-In-Class Product Line

Our best-in-class product line includes:

## INDUSTRIAL BURNERS

### HAUCK StarJet Burner



The open-fired HAUCK StarJet is designed to maximize combustion volume intensity and deliver a quick heat release. Combustion is completed in a much shorter space to minimize flame quenching by the aggregate and allow more space in the dryer for material vailing, thus improving production performance and fuel efficiency.

### Features:

- No burner tile or combustion chamber required
- All metal construction
- Simple, rugged and low maintenance
- Adjustable flame shaping to match the flame to various dryer configurations
- Available in long-nose versions
- Export versions available

### HAUCK NovaStar Burner



Utilizing the latest patented lean burn premix combustion technologies, the HAUCK NovaStar burner produces a compact flame—making it suitable for all drum sizes and types. The burner is ready to meet diverse production needs and even the most stringent air quality standards. It provides ultra-low nitrogen oxide (NOx) emissions on gaseous fuels without the added expense of flue gas recirculation (FGR) technology.

### Features:

- Capacities from 75 to 150 mm Btu/hr.
- Ultra-low NOx emissions to meet stringent air quality standards without FGR or water injection
- Standard and long-nose variations available to suit all drum types
- Precise air flow control via VFD—low horsepower design offers significant electrical energy savings
- Compact modular design suitable for stationary or portable plants
- Compact flame—flame shape adjustment not necessary
- Natural gas or vaporized propane fired





**INDUSTRIAL BURNERS** (cont.)

**HAUCK MegaStar Burner**



The HAUCK MegaStar employs VFD technology for precise airflow control, offering excellent energy and combustion efficiency. The burner package is compact and easy to install, yet remains accessible and simple to service. Linkages have been eliminated to make the burner easy to maintain and adjust. Available in sizes ranging from a nominal 50 to 200 million Btu/hr. (14,650 to 43,960 kW), the MegaStar is ready to meet any production need.

**Features:**

- Lower emissions and noise compared to open-fired burners
- Fuel efficient because of lower excess air requirements
- Stable, reliable combustion
- Direct coupled fuel valves
- Precise repeatability, allows for valve characterization using PLC controls for optimum air/fuel ratio
- VFD air control reduces electrical energy consumption

**HAUCK BCS-7000 Burner Control System**



The HAUCK BCS-7000 is our premier burner control system which provides a full-featured, user-friendly burner control solution for material drying. It manages all performance and safety functions of an asphalt or aggregate drying combustion system from start-up through production cycling and shutdown. With a superior operator interface, the HAUCK BCS-7000 provides critical information such as system status, flame signal strength, advanced diagnostics, alarm history and operational data right at your fingertips.

**Features:**

- Precise control of stack temperature or material temperature and dryer draft
- Expanded limits, system status, and flame signal strength annunciation
- Simplified burner setup and tuning with electronic valve characterization
- Integral variable set point dryer draft control
- Advanced troubleshooting with help screens and remote diagnostics
- Multi-fuel and fuel optimization (liquid and gaseous fuel co-firing) capable
- User-configurable inputs for data collection and trending
- Designed specifically for HAUCK StarJet, EcoStar, MegaStar, and NovaStar series burners and compatible with burners from other manufacturers
- Networkable over Ethernet



Honeywell Thermal Solutions Engineered to Order group can manufacture standard or custom-built fuel trains that comply with the rigorous demands of asphalt and aggregate drying.

# Most Experienced, Longest Serving Combustion Experts

When thinking of products that can make your asphalt operation more efficient, look no further than Honeywell Thermal Solutions. We offer solutions to streamline integration, installation and end-user interaction while improving efficiency and performance. Our platforms are engineered for flexibility and compatibility with a service and support network that spans the globe.

## CONTROL ROOM

### SLATE™

The Honeywell SLATE™ Combustion Management System provides a complete burner management solution by combining configurable safety and programmable logic in one single platform, reducing the size and number of components typically found in asphalt applications.

### Universal Digital Controllers

Honeywell UDC controllers deliver precise control, accuracy and higher performance to improve the quality and efficiency needed for aggregate drying applications.

### HAUCK BCS-7000 Burner Control System

Manages all performance and safety functions of an asphalt or aggregate drying combustion system from start-up through production cycling and shutdown.





## A Single Source Solution

Honeywell Thermal Solutions is your single-source partner to elevate asphalt plant performance to the highest level. Our line of burners for the asphalt industry combined with rugged and reliable controls, valves and actuators deliver safer, more reliable, greener, more efficient and more productive process operations.

Honeywell Thermal Solutions provides you with superior customer experience through comprehensive services, solutions, and world-class technical expertise wherever you are.

### HAUCK BURNERS

#### HAUCK MegaStar

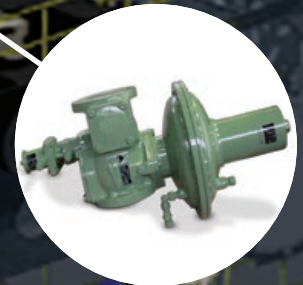
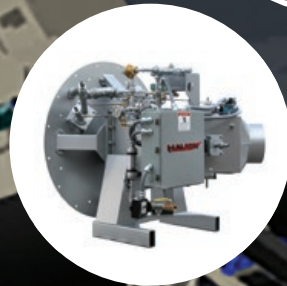
Precise airflow control, offering excellent energy and combustion efficiency. The burner package is compact and easy to install, yet remains accessible and simple to service.

#### HAUCK StarJet

The open-fired HAUCK StarJet is designed to maximize combustion volume intensity and deliver a quick heat release.

#### HAUCK NovaStar

Produces a compact flame making it suitable for all drum sizes and types. The burner is ready to meet diverse production needs and even the most stringent air quality standards with ultra-low nitrogen oxide (NOx) emissions.



### FUEL TRAIN

#### MAXON Safety Shut Off Valves

Designed for durability and performance MAXON valves are heavy duty and rugged, able to stand up to the harsh environments innate to the asphalt industry.

#### Pressure, Flow and Temperature Measurement

Honeywell's industry-proven field instruments set the standard for performance and reliability; providing the safety, security and efficiency required by the most demanding applications.

#### Gas Pressure Regulators

With decades of proven technology and superior performance, Honeywell Gas Pressure Regulators provide safe, accurate pressure reduction and are essential to system performance.



### **Comprehensive Burner Service Programs**

Honeywell Thermal Solutions' service personnel are renowned in the asphalt industry for their professionalism and breadth of knowledge. Our experts ensure that your applications run in a safe, reliable and efficient manner, while keeping maintenance expenses and fuel costs at predictable and manageable levels.

### **Flexible Service and Support**

Honeywell's Industrial Service Programs can be tailored to the needs of any aggregate drying industry facility:

- New equipment start-up and commissioning
- Troubleshooting and repair
- Preventative maintenance
- Service schools and training curriculum
- Energy efficiency improvements
- Emissions reduction and compliance
- Combustion system tune-ups
- Safety audits

**Contact our 24 hour service group at 717-389-0488.**

### **For more information**

The Honeywell Thermal Solutions family of products includes Honeywell Combustion Safety, Honeywell Combustion Service, Eclipse, EXOTHERMICS, HAUCK, Kromschröder and MAXON. To learn more about our products, visit [ThermalSolutions.honeywell.com](http://ThermalSolutions.honeywell.com) or contact your Honeywell Sales Engineer.

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