

Massive Watertube Boiler Delivered



Indeck Keystone

Energy's technology center has completed the custom engineering and manufacture of one of the largest shop-assembled boilers in the United States. Indeck Keystone Energy delivered this colossal Keystone watertube D-type package boiler for a major steel manufacturer in the Midwest. The boiler weighed nearly 1,000,000 pounds, and required Herculean efforts to move it by land and sea to the client.

Design of the large boiler involved engineering, manufacturing and transportation considerations. The custom-designed Indeck watertube boiler included 100 percent tube and membrane furnace and sidewalls to increase boiler life, while reducing overall maintenance. Engineering of the boiler took into consideration combustion, emissions, and optimization of boiler heating surface and tube spacing for enhanced thermal performance. The boiler design also included provisions to be lifted via a heavy-haul multi-axle truck equipped to travel over the road and onto a barge for water transport.

According to Chris Petcos, chief operating officer, "Indeck Keystone Energy was selected because of our past history with large custom-designed specialty boilers, project management expertise, schedule compliance, competitive price and ability to offer shop assembly of the boiler module. With extensive experience in designing boilers firing low-BTU fuels, such as blast furnace gas (BFG), coke oven gas (COG) and landfill gas, the Indeck team enjoys working with the most demanding of clients to supply industrial boilers for processing, manufacturing and petrochemical-

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refining applications worldwide."

Indeck's engineering expertise includes large shop-assembled boilers that can meet the following requirements:

1. Steam flow to 1,000,000 pounds per hour.
2. Operating pressures to 2,000 PSIG.
3. Steam temperatures to 1,050°F.
4. Accommodations for gas, oil, blast furnace gas, hydrogen, landfill gas and other low-BTU gases.

With a history of more than 160 years of successful boiler design and production, Indeck's team is ready to provide solutions that meet governmental standards, environmental regulations and efficiencies.

For more information, please visit www.indeck-keystone.com [1].

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[1] <http://www.indeck-keystone.com/>