

KWS Provides Screw Conveyor Parts for Kaolin Mining and Processing

KWS Provides Heavy Duty Screw Conveyor Components for Kaolin Processor

Introduction

Kaolin is a fine mineral commonly used in the production of ceramics, paper, coatings, and other industrial products. The major Kaolin producers and processors in the US are concentrated primarily in Georgia's "Kaolin Belt," extending from the Augusta area toward Macon and Sandersville.

Screw conveyors are commonly used for conveying Kaolin filter cake, feeding wet cake to dryers and for conveying dried Kaolin from the dryers to packaging lines. Kaolin is a highly abrasive bulk material, especially when dry, creating significant wear concerns for screw conveyor components and hanger bearings.

B&D Industrial Solutions in Macon, GA has provided MRO replacement components and engineered solutions to the Kaolin industry for over 70 years. With 7 locations in Georgia, B&D fully supports the Kaolin mining and processing market.

Challenge

One of the Kaolin producers contacted B&D needing screw conveyor components, including screws, troughs, covers, hanger bearings, and a drive package. The components had to withstand the abrasive environment and provide dependable long-term operation. B&D then contacted KWS to provide a Made-to-Order solution designed specifically for the application.

KWS Advantage

KWS provided custom screws continuously welded on both sides to Schedule 80 pipe with 3-bolt drilling for increased durability. Special ceramic hanger bearings were provided to greatly improve abrasion resistance. Hip roof covers, heavy-duty troughs, and high torque drive packages completed the solution. By reducing the operating speed and using abrasion-resistant components, wear was minimized and equipment life extended.

Customer Testimonial

"Awesome job, guys! Appreciate the hard work to land the order. There is plenty more business for KWS!"



Screws are Continuously Welded on Both Sides for Increased Durability



Ceramic Hanger Bearings are Extremely Abrasion Resistant

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