



Screws are Close-Coupled and
Clocked to Eliminate Hanger
Bearings

Bolt-In Angle Hold-Downs Save Time and Money for Lime Producer

Introduction

Screw conveyors are used throughout lime, limestone, and mineral processing. Most screw conveyors require hanger bearings to support each screw section. Hard iron bearings work well when conveying lime and limestone. However, dolomite is very abrasive and can cause premature wear on hanger bearings. The Maintenance Supervisor at a lime producer wanted to eliminate hanger bearings in several screw conveyors handling dolomite. Working closely with the plant, KWS redesigned the screw conveyors to utilize close-coupled and clocked screws, abrasion-resistant trough liners and bolt-in angle hold-downs.

Challenge

Maintenance costs were high on the existing screw conveyors and the Maintenance Supervisor wanted to eliminate hanger bearings. After meeting at the plant to review the application, KWS offered a design that completely eliminated hanger bearings and required less maintenance. A bolt-in hold-down was proposed to keep the close-coupled and clocked screws in place while making it easy for removal when needed. The new design would reduce downtime and help the plant get back to production faster.

KWS Advantage

The new KWS screws were constructed from heavy-duty carbon steel with 3/8-inch thick flights mounted on heavy wall pipe. The troughs were lined with abrasion resistant plates to reduce wear. The new hold-downs bolted into the side of the trough and could be removed within minutes.

Customer Testimonial

"The weld-in hold-downs that we had before were a real pain and we were looking for a new solution. The new KWS bolt-in hold-downs save a lot of down time. We will have them all made this way from now on!"

- Maintenance Manager – Lime
Producer

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Exploded View Shows How
Easily KWS Bolt-In Hold-Downs
Can Be Removed



Hold-Downs Bolt to Side of Trough
in Multiple Locations



KWS Bolt-In Hold-Down is
Reinforced on Outside of Trough