



Drop Bottoms Provide for Ease of Maintenance

## Improved Trough Design with Drop Bottoms for Zinc Recycler

One of the by-products of the steel making process is electric arc furnace (EAF) dust, which contains zinc and other heavy metal elements. American Zinc Recycling (AZR) is the only manufacturer in the world that produces zinc solely from recycled sources. Zinc is now considered a critical mineral by the United States, a net importer of the metal. EAF dust is transformed into a valuable commodity that is recycled to make thousands of industrial products.

### Challenge

AZR utilizes screw conveyors throughout the process of extracting zinc from EAF dust. EAF dust is extremely abrasive and difficult to convey. Maintenance is a major issue and is performed daily. AZR needed a way to make screw conveyor maintenance easier.

### Advantages Provided by KWS

KWS engineered, built, and delivered replacement components within two weeks to meet AZR's needs. The new replacement troughs had three drop bottom sections with hinges on one side and heavy-duty Witte clamps on the opposite side to keep the trough sealed during operation. Safety bolts were installed on the clamped side to prevent unauthorized personnel from accessing the conveyors. The improved KWS design enhances the ease of cleanout and efficiency of maintenance.

### Testimonial

"The new and improved KWS trough sections have helped with our maintenance tremendously. The design is working great!"

- Steven Snyder, Maintenance Supervisor – American Zinc Recycling



Heavy Duty Clamps Keep Trough Sealed During Operation



Safety Bolts Prevent Unauthorized Personnel from Accessing Conveyor



### KWS Manufacturing

3041 Conveyor Drive  
Burlleson, Texas 76028

Toll Free: (800) 543-6558  
Phone: (817) 295-2247  
Fax: (817) 447-8528

[www.kwsmfg.com](http://www.kwsmfg.com)