



Electric Arc Furnace (EAF)  
Method Converts Recycled  
Metals into Steel

## KWS Saves Steel Mill \$1,600,000 in Potential Downtime with Quick Delivery

### Challenge

Modern steel production uses the Electric Arc Furnace (EAF) method to convert recycled metals into steel. High-powered electric arcs with temperatures of up to 1,650 degrees C melt scrap metal and convert it into high-quality steel. Screw feeders and conveyors are used in the steel making process for handling various minerals or slag and dust from the air pollution control systems. Conveying equipment must be designed for difficult operating conditions.

Replacement mass flow screws for an existing screw feeder were needed at Nucor to prevent further downtime. The screw feeder was a dynamic and crucial component in the steel manufacturing process. Downtime at the mill was in excess of \$100,000.00 per hour.

### KWS Advantage

Working with engineers at Nucor, KWS quickly produced detailed specifications and drawings resulted in expedited delivery of the much-needed replacement mass flow screws. Using lean manufacturing processes, KWS provided Nucor with the highest quality equipment and shortest lead time in the industry. KWS saved the mill over \$1,600,000.00 by avoiding any downtime.

Cost Savings Calculation – Downtime Avoidance  
 $\$100,000.00 \text{ per hour} \times 16 \text{ hours} = \$1,600,000.00$

### Testimonial

“KWS again exceeds our expectations. We are extremely happy with the KWS quality and short delivery time for the replacement screws. Thanks for working in our best interests.”

- Maintenance Manager – Nucor Steel



#### KWS Manufacturing

3041 Conveyor Drive  
Burlison, Texas 76028

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

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



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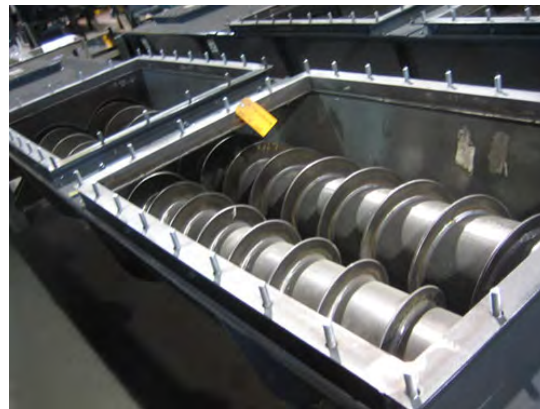
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Large Silos Store Coal-Based Bulk  
Materials



Twin Mass Flow Screw Feeders  
Accurately Meter Bulk Materials



KWS Mass Flow Screws are  
Designed for Even Withdrawal of  
Bulk Materials from the Silo



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