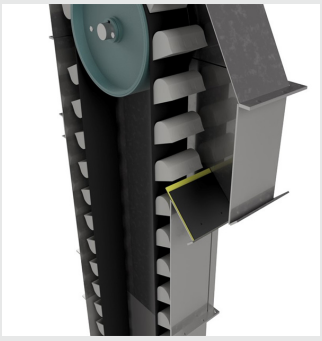


Bulk Materials Discharge by Gravity or Centrifugal Force as Buckets Go Around Head Pulley or Sprocket

Bucket Elevator Throat Plate

Bucket elevators transport bulk materials vertically and are used in thousands of industries and applications. A series of buckets are attached to a belt or chain with pulleys or sprockets located at the top and bottom of the bucket elevator. Bulk materials are loaded into buckets at the boot section and carried vertically to the head section to be discharged. The buckets are inverted as they go around the head pulley or sprocket, discharging bulk materials either by gravity or centrifugal force.

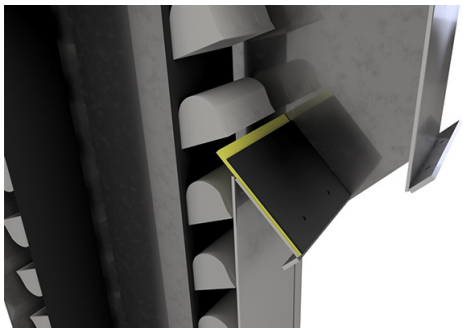
A throat plate is located in the head section of a bucket elevator and increases the efficiency of bulk material discharge. Very simple in design, a throat plate is typically made from 3/8" thick rubber belting and is adjustable to fill the gap between the outer lip of the discharging bucket and the bucket elevator discharge. Without a throat plate, some of the discharging bulk material would fall to the bottom of the bucket elevator, creating inefficiencies and potential maintenance problems. The throat plate also keeps bulk materials from building up on the outer lip of the buckets.

Features

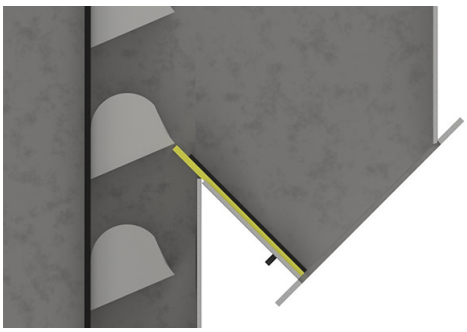
Superior Wear Resistance – Resistant to extremely abrasive bulk materials, seizing and galling

Benefits

Reduced Maintenance and Downtime – Extended operation time improves productivity and reduces scheduled maintenance



Throat Plate is Located in Head Section to Increase Efficiency of Bulk Material Discharge



OThroat Plate Fills Gap Between Outer Lip of Discharging Bucket and Bucket Elevator Discharge

KWS Manufacturing
3041 Conveyor Drive
Burleson, Texas 76028

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

www.kwsmfg.com