

SCREENING K-MAG PREMIUM POTASH



Design Requirements

Product Type: Potash

Capacity: 250 TPH (Designed for 338 TPH)

Duty: 2 Shifts/16 hours per day

Model: 6' x 10', 8-Deck, SP/QC

Customer Challenge

A long time customer, who has over fifty Triple/S Dynamics conveying and screening machines in various locations throughout the world and who is one of the world's largest suppliers of phosphates and potash, contacted Triple/S Dynamics looking to replace existing Triple/S Dynamics Texas Shakers that have been in service and working excellent since 1997. Our customer was looking to upgrade with new and updated equipment as well as increase capacity.

Triple/S Solution

Triple/S recommended our Model SP/QC, 6' x 10', 8-deck, Texas Shaker as a replacement of the older equipment. In upgrading to new equipment, we were able to increase our customers' capacity by 33%. One of the biggest advantages provided by Triple/S Dynamics was being able to increase capacity while keeping the same footprint. The only geometric change was the increased height of the machine to add additional screening decks. Triple/S Dynamics also included a quick-change design to increase the ease of cleaning and maintenance.

The Quick-Change (QC) model combines the screen box of the standard with individually secured screen decks for easier access when frequent screen changes are needed. QC models are available in widths from three feet to eight feet in series, parallel or series/parallel configurations. In multi-deck models, integral carrying pans for delivering undersize fractions to the collecting chutes are attached to the ball rack frames. Any one level can be separately removed and replaced, without disturbing the others. In box widths up to and including six feet, the ball racks are the width of the box and half the length. In the eight foot widths, the racks are half the width and half the length, with four separate racks per deck level.

De-blinding balls, which may be gum rubber or polyurethane for ambient temperatures or silicone or spring steel wire-wound for elevated temperatures, are contained within boundaries about 12" square and supported on an open, rough surfaced steel wire mesh.

Triple/S and the Customer

This customer location purchased their first Texas Shaker from Triple/S Dynamics, Inc. in 1996 and when provided with a comparison of other suppliers during the initial phase of this project, one of their Process Leads stated, "I am not interested in other suppliers in Granulation at this time. We have run Texas Shakers since 1997 and they work well in our process."

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