

Bin Activator Streamlines Casting Process — Aids In Recycling Shakeout Sand.

Customer:

Buck Company, Quarryville, Penna.

Equipment:

(1) One 10 ft. diameter Bin Activator

Problem:

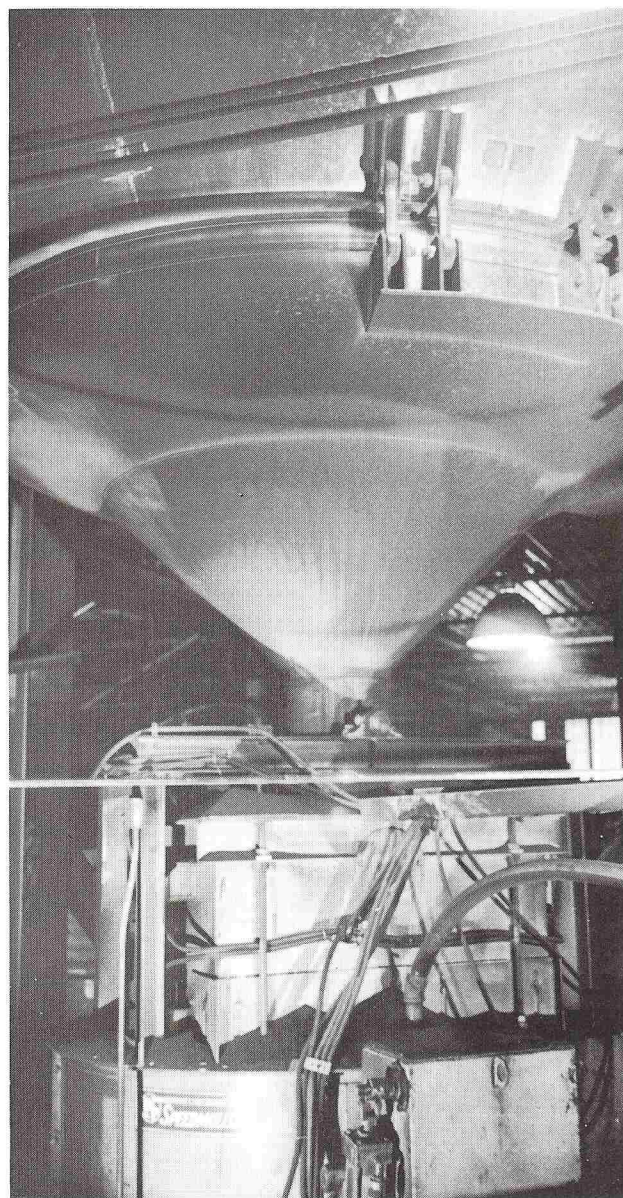
The Buck Company, manufacturer of gray iron castings, wanted to streamline their casting process by continuously recycling shakeout sand for reuse in the molding process. Before reuse, the sand must be combined with new sand, bentonite and sea coal and stored in a 15 ft. diameter, 140 ton capacity bin for discharge to a muller. The stored mixture can be up to 10% moist and very sticky. Discharge problems such as ratholing, bridging and clogging were likely making the required 35 cu. ft. per 30 second batch difficult, if not impossible, to attain.

Solution:

The Buck Company decided to install a VIBRA SCREW Bin Activator based on VIBRA SCREW'S extensive experience with similar sand handling applications. A patented bin discharger, the Bin Activator is flexibly hung from the upper bin, replacing the problem-causing static cone section. A powerful gyrator vibrates the activator, its internal baffle and the contained material but not the bin. Discharge is immediate and constant while vibrations directed up into the bin by the curved baffle keep material mobile and eliminate bridging.

Results:

The Buck Company found that the Bin Activator completely eliminated their anticipated discharge problems. Their recycling process runs flawlessly making the entire casting process more economical and efficient.



Moist, sticky sand moves with dispatch thanks to installation of Vibra Screw Bin Activator.