

VIBRA SCREW CASE HISTORY



C-175

Feeders retired after
20 years of service

Customer

Boyle-Midway Division, American Home Products Corporation, Canton, Ohio; manufacturers of "Sani-Flush" toilet bowl cleaner.

Problem

Four different kinds of kiln-dried chemicals go into the formulation of Sani-Flush. These chemicals are essentially powders of about 100 mesh, with densities of from 58 to 80 lbs. per cu. ft. Stored in static bins on an upper floor, they flow by gravity into the hoppers of screw feeders and are proportionately fed to a continuous blender. Twenty years ago, with standard screw feeders, the chemicals could not be metered with the required accuracy because of flooding and flow stoppages.

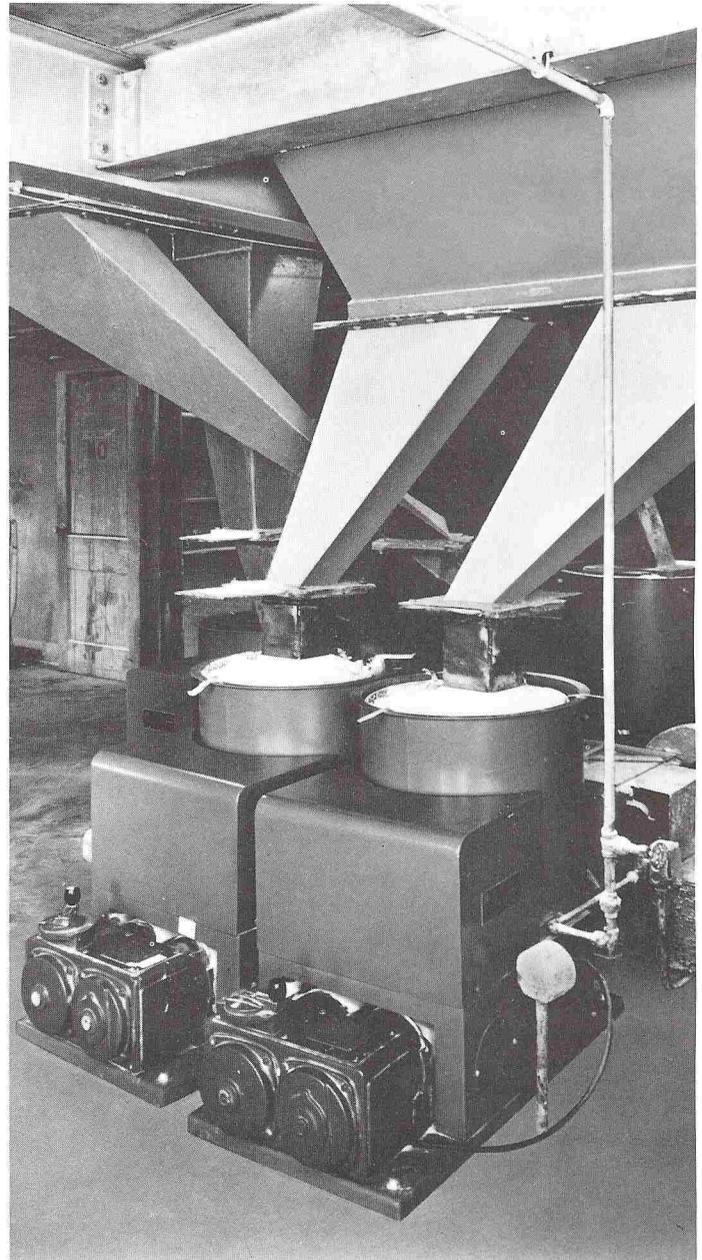
Solution

Sixteen Vibra Screw Live Bin Feeders with 2 in., 3 in., and 4 in. screw diameters.

Boyle-Midway solved the original problem by installing Vibra Screw Feeders with screws ranging from 1 in. to 4 in., depending on the chemicals being metered. These feeders, based on a patented principle of vibrating trough, feed screw and tube, condition the material for consistent and accurate feeding. Today, after 20 years of service, the original units have been replaced with 16 new Live Bin Screw Feeders to continue the same precise metering of ingredients with formulation accuracies of $\pm 1\%$ or better.

Results

The new feeders have maintained the company's required high accuracy, and reduced downtime coupled with low maintenance are expected to result in significant dollar savings. Another benefit: when special runs require modified feed rates, all that is necessary is to make a simple adjustment of the graduated dial on each feeder.



Sixteen new live bin feeders like these help Boyle-Midway formulate Sani-Flush cleaner with precise accuracy.