



Hydraulic Upgrade Gives New Life to Bakery Plant Dough Dumper

PROBLEM ▼

A large bakery customer in the Southeastern U.S. was using vintage dumpers to unload thousands of pounds of dough from a mixer into a roll-around vat. Even though the 1940s-era dumpers were “grand fathered” in for FDA compliance, they were beginning to show their age. The plant was experiencing two-to-three-hour periods of downtime every week to maintain them, plus regular eight-hour intervals for repairs when they broke down. An upgrade became inevitable.

THE SOLUTION:

BDI received a call from the plant engineer, who requested a site visit to assess the situation. A member of BDI’s Fluid Power Specialist team accompanied the local branch representative to the plant. After determining which hydraulic components were needed, the specialist designed a custom Hydraulic Power Unit with BDI vendor components that included a plant-standard, food-grade hydraulic oil. FloTork, a division of Moog, supplied a rotary actuator big enough to handle the heavy dough loads. Plant engineers designed and installed the accompanying mounting platform. Within the custom set-up, BDI also replaced obsolete open worm gear drives and large expensive bull gears.



SUCCESS MADE EASIER:

The plant now has a reliable system for transporting heavy dough loads and all replacement parts are standard and readily available. In addition, they have reduced the possibility for product contamination and are now compliant with current FDA regulations for food plants. Annual labor savings are approximately \$11,500, plus parts. Engineering Savings = \$5,000.

Contact your local BDI branch for more information on application analysis and other BDI Solutions.