



BDI and Dodge Partner to Save Wastewater Plant Thousands of Dollars

PROBLEM ▼

A 27-year-old wastewater treatment plant located in the Northeast was having problems with reducers that power the Rotating Biological Contactors in its filtration process. Chronic leakage and premature gearbox failure were among issues occurring in the plant's harsh operating environment. The media rotates at 1-2 rpm to facilitate growth of biological organisms (slime) via the air/effluent exchange. This growth results in an unbalance

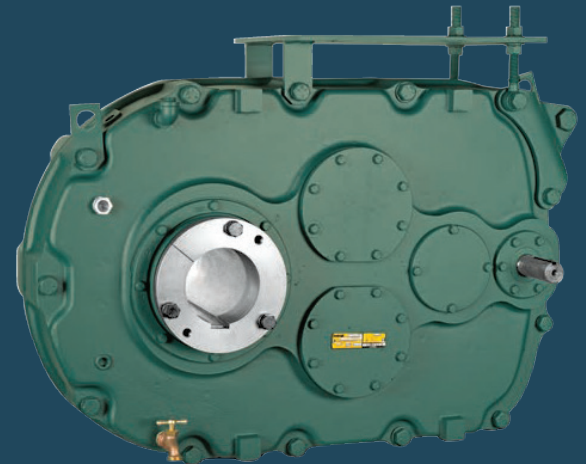
mass on the contactor, which stresses the gearbox. While originally commissioned with Dodge reducers, the plant had switched at some point to a lower-cost alternative. The drives were failing in less than five years, many lasting only two years, despite revisions in the plant process to lessen the uneven loads.



THE SOLUTION:

After dealing with chronic seal leaks, gearbox failures and overall decreased performance, the plant was happy to give Dodge another try at BDI's suggestion. New Dodge RBC 188D Biodisc Drives have been installed as the inferior units failed.

Designed specifically for the wastewater industry, the Dodge units have a twin power path with two gears/pinions to transfer the load, thus creating enhanced load-carrying capability. Internal stress on the housing and bearings is reduced, resulting in longer bearing life.



SUCCESS MADE EASIER:

Over the last year, the plant has recovered **\$76,913** in ownership savings.

MATERIAL SAVINGS.....	\$71,873
LABOR SAVINGS.....	\$2,240
LABOR AND ANCILLARY COST AVOIDANCE.....	\$2,800
TOTAL ANNUAL SAVINGS.....	\$76,913

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