



Customer
Soft drink manufacturer

Industry
Food & Beverage

Application
Conveying — container filling line

Rexnord Solution:
Ultramite UB Gear Units

Total Annual Savings
\$42,784

For a detailed cost analysis for your application, contact your local Rexnord Representative.

Ultramite UB Gear Units Deliver 65% Savings for Soft Drink Manufacturer

Challenge

A large soft drink manufacturer was encountering repeated worm gear unit failures on a container filling line.

- Worm gear failure on the 94-unit line was due to sliding-efficiency losses and heat generation.
- The inefficient worm gear units made larger motors necessary in order to deliver required performance.

Rexnord Solution

Rexnord proposed replacing the worm gear units with highly-efficient, motor-independent Ultramite® UB Gear Units in a C-face arrangement.

- At 95% efficiency, Ultramite UB Gear Units let the manufacturer select smaller motors, generating and wasting less heat compared to the oversized motors that were used to compensate for the worm gear unit's 83% efficiency.
- The C-face arrangement allows the motor to be replaced without ever needing to open up or remove the gear unit.



Ultramite UB Gear Units driving a multi-lane MatTop® conveyor

Rexnord Solutions and Savings in Action

Since installing this Rexnord solution, the customer has:

- Reduced replacement and installation costs, due to the longer service life of more efficient gear units.
- Reduced spare part SKU's and lowered inventory volumes by standardizing on a single motor design in a limited number of sizes.
- Reduced annual energy consumption by 12.6%.
- Achieved 65% annual savings and a 1.5-year payback for investment.

Calculating the Annual Total Cost of Ownership (TCO)

Rexnord worked with the customer to determine the current costs compared to the TCO using the Rexnord solution. Factors considered were:

- Acquisition costs.
- Installation costs.
- Energy savings.

Annual Cost Analysis Breakdown (in \$USD)

Acquisition Costs

	Purchase Price	Expected Life (years)	Units Installed	Total
Current worm gear unit	\$1,369	2	94	\$64,343
Ultramite UB Gear Unit	\$2,050	7	94	\$27,529
Annualized Savings				\$36,814

Installation Costs

	Installation Cost	Installation/Year	Units Installed	Total
Current worm gear unit	\$35	0.5	94	\$1,645
Ultramite UB Gear Unit	\$35	0.14	94	\$470
Annualized Savings				\$1,175

Energy Savings

More efficient gearbox selection decreased energy consumption by 12.6 percent per year.

Annualized Savings				\$4,795
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Rexnord Solution Annual Savings Summary

Total current cost	\$65,988
Total proposed cost	\$27,999
Total savings	\$42,784
TCO reduction percent	65%

Total Cost of Ownership Annual Savings: \$42,784