



**Customer**  
 Producer of corrugated packaging

**Industry**  
 Pulp & Paper

**Application**  
 Paper machine — couch roll and dryer drum

**Rexnord Solution:**  
 Falk V-Class Gear Drive with Custom Transition Base

**Total Annual Savings**  
 \$30,452

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

## Drop-In Falk V-Class Gear Drives Save 70% for Packaging Producer

### Challenge

A leading North American producer of corrugated packaging needed to overhaul two gear reducers on a kraft paper machine — one for the suction couch roll which is the main drive roll for the mesh, and one for dryer drums from the first dryer section.

- The current gear reducer models typically last only about five years before requiring reconditioning.
- In order to recondition the two original gear reducers, the machine owner would need to purchase high priced component parts. An additional supervisory charge to have a service person from the gear reducer manufacturer present is also required under commercial terms.

### Rexnord Solution

Rexnord recommended replacing both units with new Falk V-Class™ Parallel Shaft Gear Drives and custom transition bases.

- **State-of-the-art**, heavy duty Falk V-Class Gear Drives are built for extended life in extreme environments and feature reliable, quiet, cool operation and easy maintenance.
- **With Rexnord's custom transition bases**, the gear drives became drop-in replacements for the existing equipment, requiring no modification of the paper machine.



Falk V-Class Parallel Shaft Gear Drive

### Rexnord Solutions and Savings in Action

By installing this Rexnord solution, the customer:

- Acquires new equipment at a lower installed cost than reconditioning the existing equipment and eliminates overhaul supervisory fees.
- Conservatively anticipates at least seven years before reconditioning in this application, rather than the five-year life of the existing product.

### 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.
- Maintenance costs.

### Annual Cost Analysis Breakdown (in \$USD)

#### Acquisition Costs

	Purchase Price	Expected Life (years)	Units Installed	Total
Current gear reducer overhaul parts	\$84,000	5	2	\$33,600
Falk V-Class Parallel Shaft Gear Drive and Accessories	\$34,618	7	2	\$9,891
<b>Annualized Savings</b>				<b>\$23,709</b>

#### Installation Costs

	Installation Cost	Expected Life (years)	Units Installed	Total
Current gear reducer	-	5	2	\$0
Falk V-Class Parallel Shaft Gear Drive	\$7,200	7	2	\$2,057
<b>Annualized Savings</b>				<b>-\$2,057</b>

#### Maintenance Costs

Eliminated the current manufacturer's required overhaul supervisory charge.

	Cost/Event	Events/Year	Units Installed	Total
Current gear reducer overhaul fee	\$22,000	0.2	2	\$8,800
<b>Annualized Savings</b>				<b>\$8,800</b>

### Rexnord Solution Annual Savings Summary

Total current cost	\$43,600
Total proposed cost	\$13,148
Total savings	\$30,452
TCO reduction percent	70%

**Total Cost of Ownership Annual Savings: \$30,452**