

Lumber Company Saves \$30,000+

PER YEAR WITH FALK™ QUADRIVE™
SHAFT-MOUNT GEAR DRIVES



94% REDUCTION IN
CURRENT COSTS



8x LASTS 8x
LONGER

THE CHALLENGE

A hardwood lumber supplier in Northern Pennsylvania was unknowingly using a competitor's incorrectly sized shaft-mounted gearbox with their wood chipper, which processes sawdust into wooden pellets. The gearbox's inadequate service factor led to failures every three months. Even after switching to another brand, the results were the same—frequent breakdowns, costly replacements, and significant downtime.

When the chipper failed, the conveyor continued feeding end pieces, causing pileups and floor spills. Production had to be halted for manual cleanup in a tight space where forklifts couldn't operate—adding labor costs and operational delays.

THE SOLUTION

Recognizing the urgency, Regal Rexnord mobilized its application engineering team, bringing deep industry expertise to the table. After a thorough diagnosis of the issue and its root cause, our experts identified that the previous failures stemmed from an improperly sized gearbox with an insufficient service factor.

To address this, we recommended the Falk Quadrive shaft-mounted reducer, precisely sized for the wood chipper's operational demands. This solution not only ensured optimal performance and durability but also featured a TA bushing arrangement—streamlining installation and significantly reducing labor time and complexity.

THE RESULTS

Despite a higher upfront cost, the new gearbox delivered exceptional value:

- Extended product life
- Significantly reduced downtime
- Streamlined maintenance

Most importantly, the **total cost of ownership** dropped by an astounding **94%**, transforming a costly operational bottleneck into a model of efficiency.



CALCULATING THE ANNUAL TOTAL COST OF OWNERSHIP (TCO)

Regal Rexnord worked with the customer to determine their current cost of ownership and compared that to the cost of the Regal Rexnord solution. Factors considered were:

- Acquisition costs of the gearbox
- Installation costs
- Longer life
- Lost production due to downtime



ANNUAL COST ANALYSIS BREAKDOWN (IN \$USD)

Acquisition Costs

	Purchase Price	Expected Life (years)	Units Installed	Total
Current product	\$2,000	0.25	1	\$8,000
Falk Quadrive	\$3,500	2.00	1	\$1,750

Annualized Savings \$6,250

Installation Costs

	Cost/Install	Installations /Year	Units Installed	Total
Current product	\$210	4.0	1	\$840
Falk Quadrive	\$140	0.5	1	\$70

Annualized Savings \$770

Lost Production

Occured during gearbox replacement

	Events/Yr	Downtime/Event Hrs	Downtime/Cost Hr	Total
Current product	4	3	2,000	\$24,000
Falk Quadrive	0	0	0	\$0

Annualized Savings \$24,000

Regal Rexnord Solution Annual Savings Summary

Total current cost	\$32,840
Total proposed cost	\$1,820
Total savings per year	\$31,020
TCO reduction percent	94%

**Total Cost of Ownership
Annual Savings: \$31,020**



Regal Rexnord

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