

# Falk™ CT-Series Cooling Tower Gear Drive Exceeds Expectations

IMPROVES CONTINUOUS UPTIME BY 36%

## LOCATION:

Chemical processor in Louisiana, USA.

## PROBLEM:

Old gearboxes were underperforming and displaying vibrational issues even with repairs and upgrades. Leaking seals resulted in frequent downtime and failure every 6-8 months.

## SOLUTION:

Installation of new Falk CT-Series cooling tower gearbox.

## RESULT:

A cost-effective solution with notably improved performance, resulting in an initiative to standardize and upgrade gearboxes company-wide for continued savings and reliability.

The Falk CT-Series cooling tower gear drives presented an impressive solution for a premier chemical processor in Louisiana, improving continuous uptime and saving the company significantly on replacement and repair costs, as well as downtime.

When the chemical processor approached Regal Rexnord for a gear drive replacement, they were working with a product that was over a decade old and needlessly complex for their application. The gear drives were continuously failing at a rate of every 6 to 8 months due to leaking seals. Unplanned downtime, repair, and replacements were costing the company \$90,000 every time.

Falk CTA gear drives saved the company well over 60% per drive replacement. Thanks to improved performance and advances in engineering technology, the Falk CTA gear drives were also more reliable, longer-lasting, and performed with lower vibration levels.

The company reported, "We installed the new Falk CT-Series cooling tower gearbox, and it's exceeding our expectations in the application. We've now proceeded with standardizing to the Falk CT-Series in the plant."

Falk CTA gear drives are designed as a drop-in replacement option for most popular double reduction applications. The design holds to the rigorous Falk standards and testing, including mechanical endurance, thermal vibration, and sound vibrational testing. Meeting all AGMA and CTI rating standards, the drive is reliable, affordable, and built to withstand many harsh conditions.

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The Falk CTA gear drive offers a premium-quality drop-in replacement solution that's cost-effective, standardized, and reliable in cooling tower applications.



**FALK™**

# Falk™ CT-Series Cooling Tower Gear Drive

The customer contracted with an independent vibration specialist to test and confirm that the unit was meeting all expectations to ensure performance. The vibration specialist reported, ***"The overall vibration is quite low for a cooling tower application, and there do not appear to be any bearing or gear issues,"*** confirming the rigorous testing that is performed on the units before distribution.

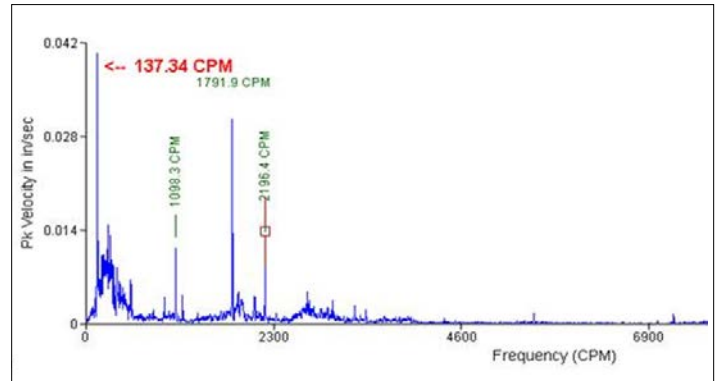
The company was pleased to report that they have **improved their rotating equipment's continuous runtime by 36%** in the caustic chlorine unit of the plant, where the first two Falk CTA gear drives were installed. Thanks to the outstanding performance of these two drives, company leadership decided to standardize the drives throughout all plant applications.

## Falk CTA Gear Drive Features and Benefits

- Comes in four sizes (255, 275, 310, 350) and 19 ratios to meet a broad range of applications
- Greater surface area to improve thermal performance in high ambient temperatures
- Thicker housings reduce noise and vibration for smooth and efficient operation
- Marine-grade corrosion protection for longer life in demanding environments
- Optimized oil slinger and distribution system design provide pump-less lubrication
- Double-radial lip seals prevent oil leaks and contamination
- IIoT Smart Tag functionality enables better asset management and QR code documentation access

Falk CTA gear drives provide an excellent gearbox alternative with competitive pricing and lead times, as well as the unparalleled reputation for Falk quality products and service. **Shorter lead times and lower costs allow end-users to get the units they need with support for expedited delivery to address critical breakdowns.** There's no need to hold costly inventory or lose money on unexpected downtime.

When combined with **Addax™** couplings and brakes, the Falk CTA gear drives are part of a **complete power transmission package** for cooling tower applications. Customers get the advantage of over 100 years of Falk engineering expertise and Regal Rexnord support and tools, including the shortest lead times, greatest product availability, and competitive standard warranty.



Independent vibration specialists documented very low vibration for the application with no bearing or gear issues during performance, improving continuous uptime by 36%.



Reliable in highly corrosive and humid environments, the Falk CTA gear drive is an ideal answer for power generation, oil and gas, refineries, and paper mills.



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