



TIMKEN

Breakthrough Bearings Help Cut Fuel Costs

Today's trucking industry stands on the brink of a remarkable transformation in operating efficiency. Exciting new technologies promise to significantly reduce fuel consumption and greenhouse gases.

Timken is in the forefront of companies investing in innovative research and development. The result is a new fuel-efficient Timken® tapered roller bearing that could help save you up to \$1,375 in fuel for a Class 8 truck over five years. Plus, our power-dense bearing weighs less, allowing you to increase your payload for increased revenue opportunities.

The SuperTruck project, supported by the U.S. Department of Energy, involves several truck manufacturers and partners, including Timken, who are testing new technologies in commercial vehicle trucks on the road. One major goal is to achieve a 50-percent increase in vehicle freight efficiency measured in ton-miles per gallon.

Timken is doing our part to help achieve this ambitious goal. We want to help you reap major cost-saving benefits, while protecting our environment.

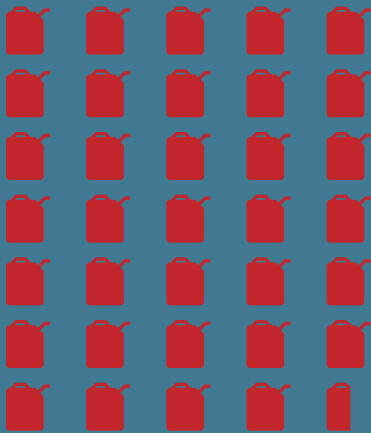
Add Up the Savings

A single new Class 8 truck using **Timken fuel-efficient, lower weight bearings** could **save** a fleet owner up to **\$1,375** in fuel costs over 5 years.

\$1,375

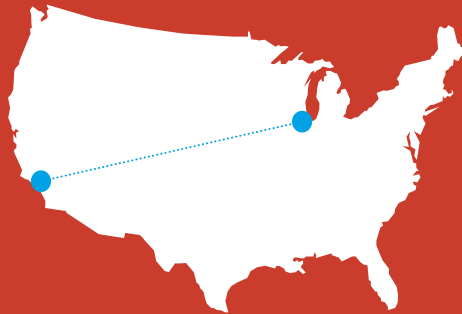
343 gallons

Timken advanced bearings **reduce friction (~25%) and weight (39%)**, can result in **fuel savings of up to 343 gallons** per truck over 5 years.



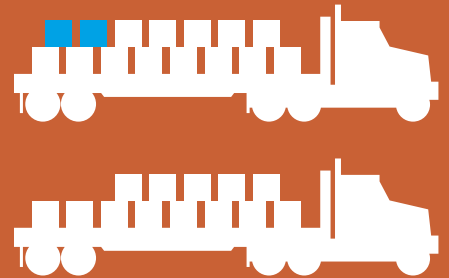
2,040 miles

Overall fuel savings can equate to 2,040 miles per truck over 5 years – the approximate distance from Chicago to Los Angeles.



58 pounds

Bearing weight decreases by 58 pounds allowing you to add an **extra 58 pounds of payload** per truck, per mile.



Timken Fuel-Efficient, Power-Dense Bearing

~25% less friction

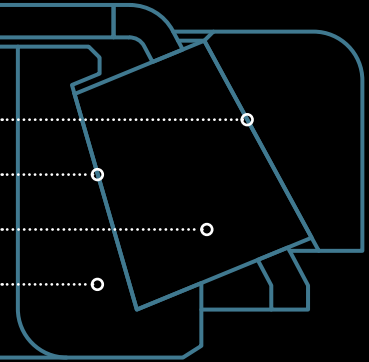
39% weight reduction

Precision Profiles

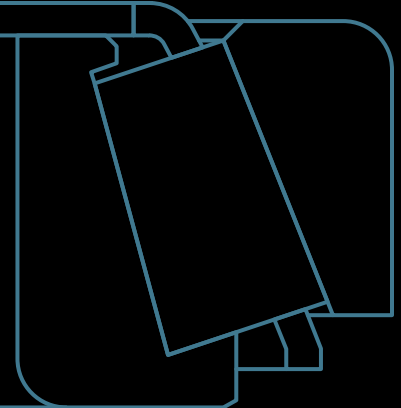
Tight Tolerances

Enhanced Surface Finishes

Engineered Steel



Standard Original Equipment Bearing



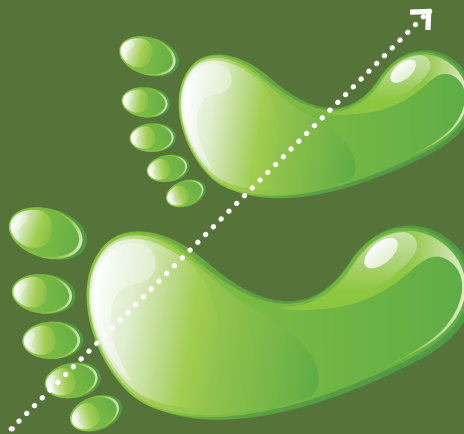
10°f cooler

Reducing friction by 25% compared to standard bearings, Timken fuel-efficient, power-dense bearings run up to **10 degrees cooler** – helping **improve seal and lubrication life**.



7,675 pounds

Timken bearings can help **reduce carbon dioxide emissions** up to approximately **7,675 pounds** per truck over 5 years. That's a smaller "footprint" impacting our environment.



Calculations based on the following criteria over 5 years: 100,000 miles per Class 8 truck, per year; fuel economy of 6 mpg; fuel cost of \$4.00 per gallon; Timken fuel-efficient, power-dense bearings located in all wheel ends (20 bearings) and axle centers (8 bearings) of truck and trailer.

Unless noted, calculated savings are based on reductions in bearing weight and friction (torque).

Emission reductions calculated using Greenhouse Gas Emissions Model (GEM) used by the U.S. Environmental Protection Agency.

Stronger Together.

Better bearings – along with improvements in engine efficiency, aerodynamics and tire rolling resistance – can contribute to the realization of a 10 mile-per-gallon Class 8 truck.

Timken recently developed a distinctive new generation of bearings: one that offers you significant fuel efficiency with a power-dense core. Plus, these lighter-weight bearings can enable you to increase your payload and accelerate the benefits.

One look tells you these bearings are different. Their compact power-dense design is stronger than ever in a smaller envelope. That can translate into optimized components surrounding the bearings – boosting your savings.

To capitalize on these cost-reducing opportunities, ask your truck manufacturer to install Timken fuel-efficient bearings in your next commercial vehicle.

Why wait?

You can install fuel-efficient bearings on your trucks now.

Ask your Timken sales engineer for more information.



TIMKEN

The Timken team applies their know-how to improve the reliability and performance of machinery in diverse markets worldwide. The company designs, makes and markets high-performance mechanical components, including bearings, gears, belts, chain and related mechanical power transmission products and services.

Stronger. **Commitment.** Stronger. **Value.** Stronger. **Worldwide.** Stronger. **Together.** | Stronger. **By Design.**

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