

A PARTNER FOR ALL PLATFORMS

We engineer precision friction management solutions for fixed wing, rotorcraft, satellite and defense systems, as well as space flight mechanisms.

Our bearings for gearboxes, engines, starters, generators, pumps, auxiliary power units, avionics, landing wheels, inertial guidance systems and accessory equipment set the standard for quality, performance, cleanliness and reliability.

Timken will help you push the boundaries of what is possible.

TIMKEN



EXPERIENCE IS EVERYTHING

What is the value of a century of experience?

It equals more than 12,000 product designs on more than 400,000 active planes, adds up to 1 billion safe landings and is how 3 billion passengers reach their destinations each year.

Our bearings are at the core of aircraft development.
How can we help you go farther?

Fixed Wing

Timken bearings were aboard the first commercial planes that revolutionized how we travel. The 1925 Ford Trimotor and 1928 standards on wheel bearing designs are two early examples of helping the world fly. Today, our ideas continue to shape the future of aeronautics.

Timken has dedicated processes and resources to support critical fixed wing applications, including:

- Engines and gearboxes
- Starters and generators
- Hydraulic pumps
- Accessory equipment
- Auxiliary power units
- Landing wheels

Rotorcraft

Dating back to Igor Sikorsky's 1939 flight of the VS-300, Timken bearings have played an essential role in rotorcraft design. To support the 80 years of growth in this field, Timken employs set processes for working with our customers on these mission-critical applications.

Our application development includes:

- Engines and gearboxes
- Swash plates/Rotor mast
- Starters and generators
- Tail and intermediate gearboxes
- Instrumentation and optical systems
- Landing wheels

EXTENDING INNOVATION

Timken has the experience, insight and tools to collaborate with your team and support the next generation of aerospace platforms. From application engineering and program management for prototypes to supply chain and customer service collaboration, we will help you push the boundaries of what is possible.

Timken is your trusted partner...



...to go faster.

We know the need for speed. Our bearings helped propel the astonishing SR-71 and Concorde aircrafts and have traveled on multiple space shuttles. Now, Timken® bearings are found in a new generation of supersonic planes and fast helicopters.



...to be more efficient.

We collaborate with global customers to develop innovative and sustainable solutions. A recent addition to our portfolio, Timken hybrid ball and roller bearings weigh less, offer longer life at higher speeds and require less lubricant. We designed this new, lighter bearing to help customers improve fuel economy and lower carbon emissions.



...to come home safely.

Every day, thousands of planes land safely on Timken tapered roller bearings. Our work with leading wheel and brake manufacturers around the globe results in more than 3 billion safe passenger arrivals each year.



...to connect the world.

Timken has supported satellites since their inception and recognizes more are needed. By leveraging our long history in telecommunications, weather and GPS satellites, we are working with existing and new market entrants to grow the industry and connect the world.



...to feel secure.

We are a trusted supplier for weapons and guidance systems manufacturers, tasked to engineer optimal bearings for defense applications using expert modeling and analysis tools. No matter your mission, Timken can assist you with all types of critical assets.

THE TIMKEN EXPERIENCE

It takes one team working toward a common purpose to achieve more. That's why Timken delivers seamless support—from prototype to production—to your next project.

Early Engagement

Ensure your best outcomes by engaging us at the start of the design process. A dedicated program manager will guide you through every step as you coordinate with our engineering, quality, supply chain and manufacturing experts.

Application Analysis

Gain access to valuable data to investigate bearing selection, operating parameters and life predictions for your project. Findings often reveal early design and manufacturing modifications, enabling bearings to last longer.

Engineering Expertise

Predict bearing performance with extreme confidence by tapping into a broad range of modeling capabilities powered by Timken SYBER software and backed by application engineers who know your challenges.

Manufacturing Excellence

Take full advantage of advanced process technologies aimed at optimizing bearing life. Our global supply chain means you can count on Timken for world-class manufacturing strategies wherever you operate.

Broad Selection

Choose from a broad selection of product solutions, including ball, cylindrical, tapered and hybrid bearings to meet any requirement. Our growing portfolio of solutions keeps you moving efficiently.



A LEGACY OF LEADERSHIP

Our story traces back to the first flying machines and the foundations of today's aerospace industry. Through ongoing research and development, and with an ever-expanding solutions and services portfolio, Timken is engineered to deliver lasting value.

Contact us for expertise that allows innovation to soar.

timken.com/aerospace

TIMKEN

The Timken Company partners with customers to design and manufacture advanced motion technology systems and components for critical end markets including aerospace and defense, power and electrification, and automation and industrial solutions. With more than 125 years of specialized engineering expertise, we power performance across the application lifecycle.

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