

TIMKEN

Timken® Aircraft Landing Wheel Bearing MAINTENANCE TRAINING CLASS



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TIMKEN AIRCRAFT LANDING WHEEL BEARING MAINTENANCE TRAINING CLASS

When a 500-ton airplane touches down on the runway, the entire load is transferred from the airframe to the ground through the landing wheels. Under these severe conditions, the wheel bearings accelerate quickly and experience a wide range of temperatures when brakes are applied.

Timken® tapered roller bearings for landing wheels help meet the stringent performance demands of these aircraft – whether in large commercial transports or small private airplanes. Timken marks these aircraft landing wheel bearings with “20629” (inch) or “N0629” (metric), signifying that they are designated and manufactured for these transports or airplanes. In most commercial applications, Timken holds Part Manufacturer Approval (PMA) from the FAA for aircraft landing wheel bearings.

To help customers maintain these bearings, Timken offers aircraft landing wheel bearing maintenance training, held upon request at customer locations all around the world.





ABOUT THE CLASS

Although following a standardized process for aircraft landing wheel bearing maintenance is a critical part of keeping aircrafts landing safely, our class is designed to help every attendee receive personalized instruction.

The half-day program leverages our more than 75 years of knowledge as a major supplier to the world's leading aircraft landing wheel companies. Attendees have the opportunity to learn from our many years of experience.

As part of the training class, Timken provides access to an experienced service engineer on aircraft landing wheel bearings. This engineer is available to schedule a visit to your workshop site to observe and review aircraft landing wheel bearing maintenance procedures such as bearing removal, cleaning, inspection, lubrication, installation, setting/adjustment and storage areas.

Included with the training are three maintenance manuals that outline proper bearing maintenance practices for Timken's performance code 629 bearings – the industry standard selection for current and new aircraft wheel applications. These bearings go through an advanced



Timken's aircraft landing wheel bearing maintenance training class provides a format for every attendee to receive personal instruction.

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manufacturing process to improve traceability, hardness and superior quality.

The service engineer also leads the training class on aircraft landing wheel bearing maintenance.

The training class, to be held in a training room you provide, can accommodate up to 20 participants.

Contact your Timken representative at (330) 471-5698 or **service.engineering@timken.com** to request a training class. For additional information about our training programs, you can go to **www.timken.com/training**.



Timken's Aircraft Landing Wheel Bearing Maintenance Manual details standardized aircraft landing wheel bearings inspection and maintenance procedures.

To learn more, visit Timken.com/ALW



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SAMPLE AGENDA

Half-day training program covers:

- Bearing removal and handling
- Bearing part markings
- Bearing cleaning
- Bearing inspection to determine if acceptable to be returned to service
- Bearing damage modes
- Bearing lubrication
- Bearing installation
- Bearing setting and adjustment
- Bearing storage
- Flight-line bearing setting and adjustment
- Observe and review shop procedures
- Suggested workshop tools, supplies and equipment

YOUR QUESTIONS ANSWERED

During this customized training, you'll find out the answers to frequently asked questions about aircraft landing wheel bearings, including:

- What are the three most common bearing damage modes?
- How do I properly grease a bearing?
- How can I reduce my bearing consumption through proper inspection?
- Have my shop personnel received enough training to identify when a bearing should be removed from service?
- How can I properly inspect all surface areas of a bearing?

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.

www.timken.com

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