



**TIMKEN**  
Where You Turn



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**TIMKEN . . .**  
**NOT YOUR ORDINARY OEM**

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Parts manufacturer approval (PMA) requirements from the U.S. Federal Aviation Administration (FAA) demand that suppliers match or exceed the designs and material capabilities of the original part. At Timken, that's what we do. As an original equipment manufacturer (OEM), we apply our full suite of competencies to meet the FAA's stringent requirements — and our customers' mission-critical PMA needs — to keep aircraft flying safely. Here's how we can help you . . .

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# 10 REASONS YOU NEED TIMKEN



# 1

## **Our global quality standards**

*Known for quality products, Timken uses global quality systems that are tailored for the industries they serve. That's why many engine manufacturers buy from us.*

# 2

## **Our innovation**

*Through the application of experience and scientific principles, we solve problems and help your equipment run to its optimum capability. You'll find our transmissions and gearboxes in mission-critical helicopters such as the Apache and BlackHawk.*

# 3

## **Our engineering**

*We obtained most of Timken's 1,600 FAA-approved PMAs through test and computation – the most rigorous process that the FAA certifies. Engine designers have adopted Timken's PMA airfoil improvements.*

# 4

## **Our specialty**

*We specialize in the design and manufacture of complex parts and assemblies – turbine engine components, helicopter transmissions, rotor head assemblies, bearings and gears – for new production and for the aftermarket.*

# 5

## **Our operating experience**

*Since 1996, Timken's more than 500,000 fielded aftermarket parts – which include more than 130,000 turbine blades and 90,000 turbine nozzles, compressor blades and compressor wheels – have accumulated millions of flight hours.*

# 6

## **Our OEM precision manufacturing**

*Serving OEMs across the global with manufacturing tolerances and specifications down to a level of one millionth of an inch.*

# 7

## **Our research and development**

*Our nine technology centers globally employ scientists, engineers and specialists to continually innovate our products and processes.*

# 8

## **Our technology**

*Competencies in material science, tribology, advance manufacturing processes, and design algorithms translate into solutions for customers.*

# 9

## **Our history**

*Most aircraft models today use Timken aerospace components. Improving customers' performance for 75 years with transmissions, main rotor heads, gearboxes, bearings and precision engine components.*

# 10

## **Our warranty**

*We offer a warranty for replacement parts that is equal to – or better than – most OEM warranties. We stand behind our parts and our work. For details, see your sales representative or visit [timken.com/MRO](http://timken.com/MRO).*



# WHAT DOES THIS MEAN FOR YOU?

## You have assurance

- *The population of PMA parts has increased substantially yet the occurrence of service difficulties has not.*
- *We follow all test and computation methods prescribed by the FAA.*

## You have confidence

- *Many operators select us as their preferred solutions provider for the entire lifecycle of their aircraft.*
- *The use of PMA parts throughout the world is well founded and has a good safety record, according to the FAA.*

## You have peace of mind

- *Airlines worldwide have used PMA parts for millions of flight hours.*
- *PMA parts are automatically accepted in countries that are party to a bilateral agreement with the U.S.*

## You are secure

- *PMA's are an integral part of the FAA's safety regulations.*
- *Every Timken PMA part conforms to the same "form, fit and function" of the original.*
- *Our replacement parts have long service histories.*

# YOU HAVE TIMKEN

Timken pours every ounce of expertise, knowledge and capability – along with the application of proven science – to deliver unsurpassed quality, performance, and confidence into our flight-safety conscience customers.

# FIND OUT HOW WE CAN HELP

Visit [Timken.com/MRO](http://Timken.com/MRO).

For information regarding replacement components and repair, call 480-606-3130 (fax 480-635-0059).

For bearing repair services, call 714-484-2400 or toll-free in the U.S. 800-416-8881 (fax 714-484-2418).

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Bearings • Steel •  
Power Transmission Systems •  
Precision Components • Seals •  
Lubrication • Industrial Services •  
Remanufacture and Repair

[www.timken.com](http://www.timken.com)



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