



MRO SERVICES
**CFM56 BEARING
OEM REPAIR STATION**

NTN 

www.ntn-snr.com



With You

NTN-SNR, A LEADING PLAYER

NTN Corporation is a designer, developer and manufacturer of bearings, linear modules, distribution pulleys, strut parts, CVJs and a supplier of services. The world no. 3, NTN Corporation is present in all industrial, automotive and aerospace markets. NTN-SNR Roulements manages and develops all the group's activities for Europe, South America, Africa and the Middle East. Among the three European leaders, the company offers its partners a unique combination of Japanese and European cultures, with the capabilities of a world player. Its two emblematic brands, SNR and NTN, are seen as references.

EXPERTS IN 3 MARKETS AND 5 CONTINENTS



AUTOMOTIVE

The main vehicle and equipment manufacturers witness to their confidence: 9 out of 10 of the most sold vehicles in Europe are NTN or SNR equipped! Present for OEM, NTN-SNR proposes unique know-how on brake disc equipped with bearings. The Spare Parts activity benefits from guaranteed original quality. The Leader in the wheel, suspension thrust bearing and clutch release bearing markets, NTN-SNR is also very present in transmission joints and gearboxes. Created by teams in Europe, the wheel bearing equipped with a seal having an ASB® magnetic coder has become a world standard. The exclusive electric wheel-motor technology has, for its part, obtained the 2012 Automechanika prize and European Mechatronic Award. NTN-SNR is asserting itself as a system supplier for the automotive world.



INDUSTRY

Positioned in very high quality products and specialist solutions, NTN-SNR gives a preponderant place to innovation. This is why the industry grants the company developer partner status for their most demanding applications. For rail, the world rail speed record is paired with recognised knowledge of Product Life Cycle Management. For mines and quarries it is the high resistance to extreme conditions that makes NTN the world No. 1. In wind energy expertise in large dimensions and high reliability makes the difference. The steel, robotic, agricultural machinery and construction industries also require advanced performance. Numerous services like assistance with the first assembly, approved training, monitoring and a complete range of lubricants optimise the use of products from the brand.



AEROSPACE

The air and space businesses collaborate actively with NTN-SNR. The company's bearings equip major programmes, among which are the European Ariane V launcher and the CFM 56 jet engine, the most widely used propulsion unit in the world. Present on all new single aisle aircraft, NTN-SNR takes part in the development of tomorrow's engines, such as the Leap X from CFM. The company is also a leader in helicopter transmission and rotor bearings. In a field where development, research and safety take on a superlative dimension, the continuous improvement of NTN-SNR signs the quality of the engineering and partnership.

AEROSPACE PLAYS A SPECIAL PART IN THE INDUSTRY. IT IS ALSO TRUE FOR NTN-SNR

A DIVISION EXCLUSIVELY DEDICATED TO AEROSPACE APPLICATIONS

NTN-SNR Aerospace is an autonomous division that is dedicated to manufacturing bearings for aviation applications. This site has a specific organisation for functions such as quality, sales & marketing, and lean manufacturing production lines. The aerospace division also benefits from the group's foundation (calculations, tests, logistics, developments of industrial means, material laboratory, etc.).

Experienced in flying from 0 to 36,000 km/h...

REFERENCES:

Agusta Westland - Airbus Helicopters
Air France KLM - All Nippon Airways
Avic - Avio - Bell Helicopter Textron
Dassault - Dowty Propellers
General Electric - Hispano Suiza
Honeywell - Labinal Power Systems
Lufthansa - Messier-Bugatti-Dowty
MTU - Pratt & Whitney - Rolls Royce
Snecma - SR Technics - Techspace Aero
Turbomeca - UTAS - etc

AIRCRAFT

Besides the CFM 56, the most widely used engine in the world, our solutions will equip all single aisle aircraft (Airbus A320neo, Boeing B737 MAX, Embraer E-Jet, Bombardier CSeries, Comac C919, Mitsubishi MRJ...)

HELICOPTER

Leading supplier in Europe for helicopter transmission systems on programs such as Colibri, Ecureuil, Dauphin, Super Puma, H175 - Z15, AW139 and AW189.

SPACE

NTN-SNR bearings are fitted on the Ariane 5 rocket launcher on the turbopump application and cryogenic valves.



NTN-SNR MRO SERVICES:

“Our OEM approved repair is compatible with your engine designation program”

Why replace your CFM-56 main shaft bearings with brand new ones when you can save over 50% of the cost by using the maintenance capabilities of NTN-SNR MRO the Original Equipment Manufacturer ?

NTN-SNR MRO Services, your unique worldwide bearing service provider for CFM-56 engines series.

Our mission

Is to serve our customers' needs by providing highly reliable, superior quality overhauled bearings, at a fraction of the cost of new replacement bearings. By using the same stringent methods and techniques used in original equipment bearings, NTN-SNR MRO Services can ensure the same proven reliability that we are noted for throughout the aviation industry.

With dedicated stock and concerned team, NTN-SNR MRO Services is capable of exceeding your expectations for convenience, **quality** and **short Turn Around Time**.

NTN-SNR Quality

Quality is the top priority for NTN-SNR overhauled bearings. With access to the original bearing inspection data sheets, we are able to quickly detect any dimensional or surface condition changes that may have occurred during operation. All non-conforming parts are replaced with new components, manufactured by using the same process and equipment utilised for the original bearings.

Certifications

CFMI / EASA-145 / FAR-145 / CCAR-145
ISO 9001:2000 / AS-EN-JISQ 9100



MRO customers:

NTN-SNR is working with all the major engine shops on all continents:

Air France Industries / All Nippon Airways / GE Engine Services / Israel Aerospace Industries / Lufthansa Technik / MTU Maintenance / Pratt & Whitney Engine Services / SNECMA MRO ...

NTN-SNR Experience

NTN-SNR is an original equipment supplier to CFM International. Its Aerospace division, EASA-21 approved, has been the partner of SNECMA (Safran) in developing and delivering over 40,000 main shaft bearings for the CFM-56 engine family since the early stage of the engine development in 1974.

NTN-SNR has 50 years of experience with Aerospace OEM's and over 20 years in the engine MRO industry with more than 13,000 bearings that have been repaired and returned to service.

NTN-SNR Process

NTN-SNR repair station operate under strict procedures approved by the OEM, FAA, EASA and CAAC authorities in the ISO philosophy.

FAA

EASA

CAAC

TURN AROUND TIME

NTN-SNR MRO Services commits itself every day in reaching the shortest TAT. Organisation, processes, and logistics are continuously improved to achieve and exceed client expectations.

EFFICIENCY

Our main target is to offer the best service level to our clients. We achieve this in several ways:

- Developing new processes in conjunction with the OEM
- Optimising logistics
- Keeping our clients informed on the latest status of their bearings
- Managing client assets (rotable bearings)

NTN-SNR Services

Our repair station is equipped with state of the art measuring and inspection equipment:

- Dedicated teams that invest themselves in a personalised relationship with the client as well as providing statistical & technical feedback.



MRO SERVICES

CFM56 BEARING - OEM REPAIR STATION

NTN-SNR MRO

NTN-SNR AEROSPACE

Argonay - 74370 Pringy / France

Tel: +33 450-659-407 - +33 450-659-417 • Fax: +33 450-659-425

ntn-snr.mro@ntn-snr.fr