



BEARINGS

IATF 16949 : 2016
MOTION & CONTROL



REDUCING FRICTION

SINCE 1993

A Products Of

ADVECT AUTOPARTS CANADA

ADVECT BEARINGS

Substitution For High Performance

COMPANY PROFILE

Advect Autoparts Canada is one of the prominent names amongst the Top Rated Bearing Manufacturers and Exporters in India. The foundation of to cater the growing demands of top-notch quality bearings under the name **ADVECT BEARINGS** Since then, we never look back and with important partnerships with significant bearing manufacturing firms as well as with the most up-to-date and cutting-edge machineries, we manufacture premium quality Taper Roller Bearings, Wheel Bearings and Hub Units, Spherical Roller Bearings, Cylindrical Roller Bearings, and a variety of other bearings.



OUR VISION

Our company vision is to become the World's Supreme Bearing Manufacturer and Exporter by achieving 6 million bearings annually by 2030. We aim to achieve our vision by focusing on quality and not just quantity, producing Top-Notch Quality Bearings. We shall be consistent towards promising outstanding consumer support and will offer most affordable prices with utmost precision.

OUR MISSION

We are on a Mission to "Reducing Friction" in this rapidly changing world by making our bearings using state-of-the-art technology which is an efficient way to create errorless and high quality products.

WHY US

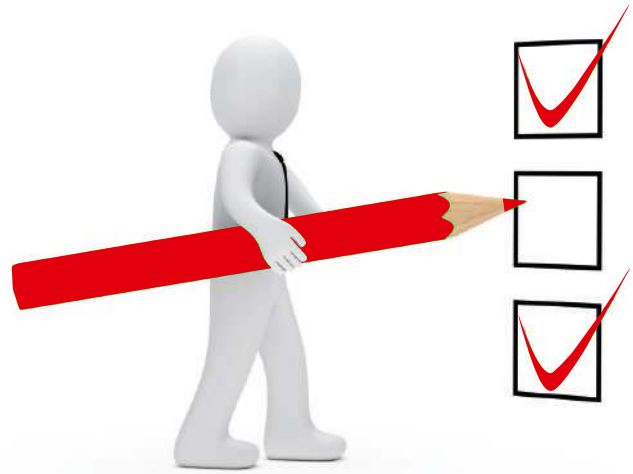
- Wide Range of Products
- Quality Assurance Support
- Prestigious Brands Under One Roof
- Quick And Reliable Services At Short Notice
- Competitive Pricing
- 24 Hours Support Service
- (JIT) Just In Time Concept



QUALITY CONTROL LAB

Our fully equipped state-of-the-art quality control labs ensure our customers that we deliver bearings of high quality with longer lifespan. Our In-house quality control lab consists of various divisions and machineries like:

- Design tools
- Auto cad, 3d modelling, stress analysis
- Design lab and system
- Standards room
- Metallurgical microscope
- Micro structure
- Profile projector
- Talyrond and talysurf
- Roller sorting machine
- Bearing noise level tester
- Bearing vibration tester
- Roundness tester



ROUNDNESS
TESTER

QUALITY

Advect Autoparts Canada /ADVECT BEARINGS. are proud to be leading bearing brand of the country. We have achieved a new height by creating new ground of targets with quality. The product design starts at **understanding the customer requirement in terms of product quality**, cost, delivery and assessing our capability to match the same. We are equipped with the latest design and modeling tools.

OUR INFRASTRUCTURE

To deliver Supreme quality bearings requires ultra-modern infrastructure and making no compromise in that, we build our infrastructure with modern technology which is perfectly utilized by more than 180+ skilled manpower. Moreover, all our processes are done in-house with dedicated lines of machinery for the grinding process of each type of bearing component with 5 production lines which helps us to reach the production capacity of nearly 2 Lakhs bearings per month. Our Continuous and innovative approach leads to higher productivity and consistency by using CNC precision grinding machines of industry leaders such as WMW - BWF Germany, CINCINATI, BRYANT, TOSCH, etc.



ADVECT BEARINGS.

is built and well equipped with ultra modern
and latest machinery

OUR PRODUCTS RANGE



1. TAPER ROLLER BEARINGS



In need of support of axial forces as well as radial forces, taper roller bearings are used. In many applications, these bearings are also arranged back-to-back forming a pair which helps axial forces to act equally in either direction. Pairs of taper roller bearings are used in industrial and vehicle wheel bearings where they must cope simultaneously with large vertical (radial) and horizontal (axial) forces. Taper roller bearings are commonly used for moderate speed, heavy duty applications where durability is required.

Common real world applications are in agriculture, construction and mining equipment, automobile industries, axle systems, gear box, engine motors and reducers, propeller shaft, railroad axle-box, differential, wind turbines, wheel bearings etc.

2. WHEEL HUB BEARINGS

A wheel bearing is a set of steel balls held together in a metal ring, called a race.

At the centre of your wheels, there is a hollow piece of casting, called a hub.

The wheel bearings fit tightly inside this hub, and ride on a metal axle shaft, helping reduce friction when the wheel spins. Wheel hub bearings are widely used in Automotive Industries.



OUR PRODUCTS RANGE



3. SPHERICAL ROLLER BEARINGS



Spherical bearings are generally used where we need low friction. It also permits angular misalignment. Typically these bearings support a rotating shaft in the bore of the inner ring that may be misaligned in respect to the outer ring. The misalignment is possible due to the spherical internal shape of the outer ring and spherical rollers. Spherical bearings are used in countless industrial applications where there are heavy loads, moderate speeds and possibly misalignment. Some common application areas are: Gearboxes, Wind Turbines, Material Handling, Pumps, Mechanical fans and blowers, Mining and Earth Movers etc.

4. CYLINDRICAL ROLLER BEARINGS

Cylindrical Roller Bearings generally have a very simple structure and find applications in various industries like mining, petroleum production, power generation industries, machine tools, electric motors, gearbox, steel mills where they offer high load capacity under primarily radial loads. Low friction between the rollers and ring ribs makes these bearings suited for high speed rotation.



OUR PROCESS

As it has been said “Perfection has to do with the end product, but excellence has to do with the process”, here, at **ADVECT Bearings** to accomplish such a great quality bearings, we strictly follow various in-house processes like.

1. FORGING

This is the first and foremost step in the Bearing Manufacturing Process. In this process the best quality steel is first heated at a high temperature and given a basic structure of a bearing. Steels like SAE-52100 or 100CR-6, which are strong and high quality are used in this process as it is the base of the Bearing Manufacturing Process.



2. ANNEALING



Due to the repeating hammering or other work in the first basic forging process, the metal's ductility is reduced to some extent. Thus, to restore metal's ductility to the fullest, the Annealing Process is done by our automated temperature control system which helps to stable the toughness of bearing with reduced hardness and strength. This is because, if the material becomes too hard, it can make working nearly impossible or results in cracking.

3. TURNING

After annealing process, the bearings undergoes a turning process. Turning is done to provide the material a desired shape by removing or cutting unwanted materials from it. This process is done by our fully automated CNC Turning Machines.



4. HEAT TREATMENT

For creating highly durable and long-lasting products, the process of heat treatment is done to make the bearing harder and unbreakable which results in improvement of strength.



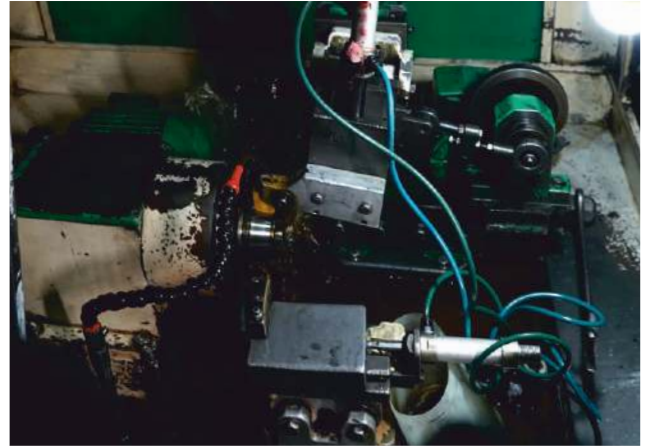
5. GRINDING

Grinding process is used to make the surface of bearing smoother and to achieve a more refined and shiny look by removing impurities from the surface. We utilize CNC precision grinding machines to ensure a consistent level of quality in our products.



6. SUPER FINISHING

Super finishing of a bearing is done to achieve dimensional accuracy, aesthetic appeal which results in greater lifespan of bearing that is not generally achieved by simple polishing. This process is necessary because a super finished surface results in low friction.



7. QUALITY CHECK

All the bearings we manufacture undergo various quality checks to achieve a desired goal of an errorless and supreme quality product. Our team ensures that all the bearings are checked three times by visual and dynamic inspection as per IS/ ISO or TS norms or IATF 16949 : 2016.



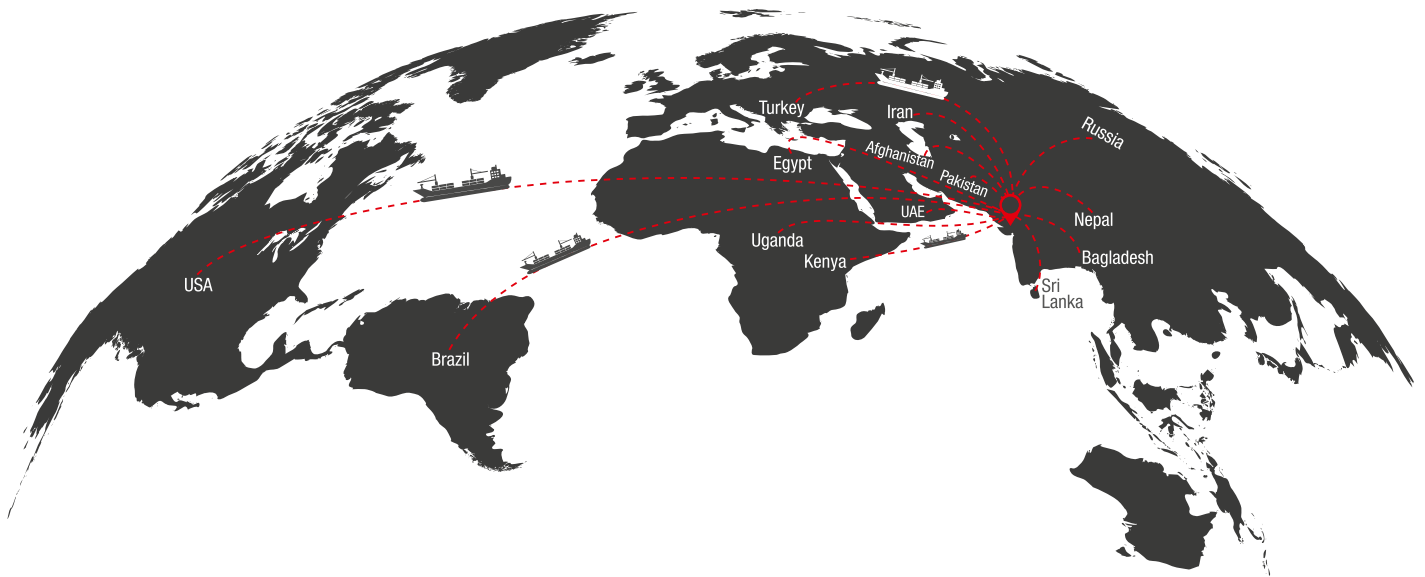
8. ASSEMBLY

After the quality check process is completed, the assembly of all bearings is carried out by a skilled workforce in a complete in-house dustproof and controlled environment with the latest machines.



OUR GLOBAL REACH

We are offering a wide range of **Taper Roller Bearings, Wheel Bearings and Hub Units, Spherical Roller Bearings, Cylindrical Roller Bearings, and a variety of other bearings** to the leading manufacturer of Automotive application bearing in India also we feed to automotive replacement market with help of 235 distributor's network. In addition **ADVECT BEARINGS** make's our country (INDIA) proud by expanding our global presence with our product quality and service by exporting bearings to more than 13 countries like Egypt, Turkey, Nepal, Bangladesh, Sri Lanka, U.A.E, Iran, Uganda, Kenya, Brazil, Russia, Pakistan and Afghanistan.





BEARINGS

OUR AUTOMOTIVE BEARINGS SUITABLE FOR



Manufacturer & Marketed by

ADVECT AUTOPARTS CANADA

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