



www.kaydonbearings.com

Turning Ideas Into Engineered Solutions

Kaydon's Bearing Remanufacturing Program



The Industry's Most Comprehensive Bearing Service

Kaydon has been a leading manufacturer of large bearings since 1941 having supplied bearings to a vast array of OEMs as well as the military.

Our approach to bearing repair parallels our manufacturing effort — teams of experienced craftsmen work quickly and efficiently, supported by Kaydon's engineering staff and extensive bearing repair and manufacturing facilities.



Product: All Ball and Roller Bearings

- Thrust Ball & Roller
- Radial Ball & Roller
- Cross Roller
- Multi-Row Ball & Roller
- Three-Row Roller
- 4-Point Contact Ball
- 8-Point Contact Ball
- Cylindrical Roller
- Thin-Section Ball & Roller



Quality: ISO 9001:2000

- System meets the demanding requirements of ISO 9001:2000.
- Complete nondestructive testing (NDT) capability.
- Modern inspection equipment to assure consistency.

Kaydon's Bearing Repair Program has been designed to meet the two most important customer criteria:

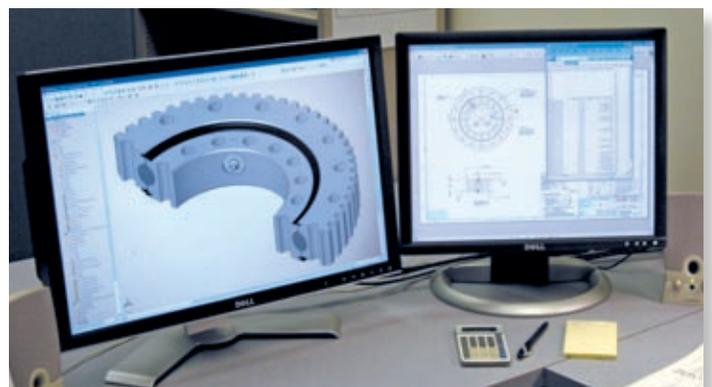
- returning the bearing to service in the shortest possible time and
- insuring highest quality workmanship on a cost-effective basis.

A bearing repaired by Kaydon will perform as new at less than the cost of a new unit and carry a warranty equal to a new bearing.



Remanufacturing: 10" to 240" in diameter

- Temperature-controlled facility built in 1980.
- State-of-the-art CNC manufacturing equipment.
- Shortest lead time in the industry.



Engineering: Complete application support

- Failure analysis and suggested preventative maintenance.
- Review of bearing suitability for application.
- Design assistance for modification.

Kaydon's Bearing Remanufacturing Program



1. Initial Inspection:

Turning torque, free-state clearance, gear size and external features are inspected and documented.



2. Disassembly & Cleaning:

Bearings are disassembled and the races are cleaned.



3. Non-Destructive Testing:

Races are visually or magnetic particle inspected to detect cracks or defects and hardness readings are recorded.



4. Repairability:

The service department reviews each bearing and application to determine repairability.



5. Precision Grinding:

Bearing races are precision ground to the proper geometry optimizing load carrying capability.



6. Assembly:

Bearings are assembled with new rolling elements, seals and packed with lubricant.



7. Final Inspection:

Inspection and documentation of all critical features. Approval required by Quality Personnel before shipment.



8. Manufacture:

If at any time during the process the repair does not meet Kaydon's demanding specifications, a replacement race or new bearing can be manufactured.

Applications



Construction:

Ball bearings (slewing ring bearings) are widely used in hydraulic cranes and excavators. Tunnel boring equipment uses ball or cylindrical rollers to support the cutterhead. Crushers and vibrating screens commonly use cylindrical or tapered roller bearings.

Metal Mills:

Cylindrical roller bearings are commonly located in cold and hot rolling mills as well as continuous casters. Large cylindrical and ball bearings are prevalent in mechanical presses and high-speed casting machines. Coil turnstiles, slitters, and crane-hook rotators typically use large ball bearings.



Utilities/Municipalities:

Large cylindrical roller bearings are often found in pulverizers. Aerial lift trucks and digger derricks use ball bearings to support the boom. Municipal wastewater treatment facilities typically have clarifiers mounted on ball bearings.



Mining:

Drag lines, shovels, and rotary drills require large ball bearings. Cylindrical roller bearings are found in grinding mills, drill jumbos, impactors and crushers.



Industrial Machines:

Ball and cylindrical roller bearings are found in many industrial machines. Bottling machines, positioners and turntables usually require ball bearings. Higher speed applications such as milling machines, vertical turret lathes, lapping machines, grinders, dynamometers, and wire stranders typically use cylindrical roller bearings.



Drilling Rigs/Offshore Equipment:

High-speed rotary tables prevalent in the oil industry use angular contact multi-row ball bearings. Marine cranes and other drilling equipment also use ball bearings. Mud pumps and winches typically use cylindrical roller bearings.



Military Equipment:

Ball and roller bearings are widely used in armament turrets and radar installations.



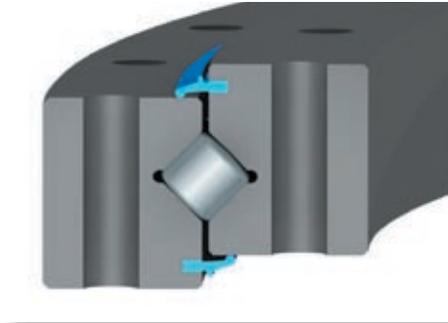
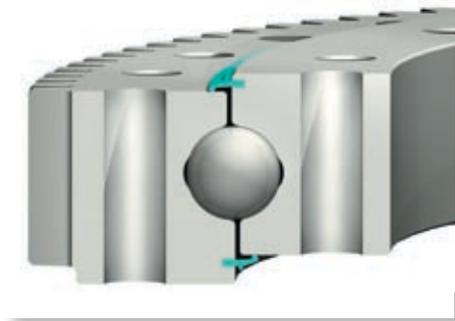
Material Handling:

Stacker cranes and articulating forklifts usually use a ball bearing. Precision turntables within conveying systems employ ball and cylindrical roller bearings. The waist area in a robot relies on a ball or tapered roller bearing as a means of rotation.

We can repair all of your bearings

from the large diameter slewing ring bearing found in cranes and excavators...

...to the high-speed cylindrical roller bearings found in metal mills, machine tools and the mining industry.



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