TIMKEN

TIMKEN® CYLINDRICAL ROLLER BEARINGS

PREMIUM BRASS CAGE, STEEL CAGE AND FULL-COMPLEMENT DESIGNS FOR PROVEN, RELIABLE PERFORMANCE.

For more than a century, original equipment manufacturers have trusted Timken to design roller bearings for long-lasting performance in harsh industrial applications. That same innovation and engineering expertise has been applied to our expanded line of cylindrical roller bearings.

Timken offers standard and specially designed cylindrical roller bearings in a wide range of configurations and series for your application requirements. This product offering includes single-, double- and four-row cylindrical roller bearings, as well as special configurations, in bore sizes ranging from 65 mm to 1200 mm.

Timken cylindrical roller bearings can meet the challenges of applications with high radial loads, including:

KEY APPLICATIONS

- Gear drives
  - Helical industrial gearboxes
  - Planetary gearboxes
  - Geared motors
- Pumps
- Compressors
- Electric motors
- Centrifuges

THE TIMKEN DIFFERENCE

As a Timken customer you are connected to a global team of design, application and service engineers that will work with you from the start to find or design a bearing that will meet your demands. We'll stand by you for the life of the equipment to ensure expectations are met. We strive to not only deliver but excel in the moments that build your trust and confidence.

- **EJ SERIES**
  Timken continues to expand its cylindrical roller bearing product offering with our new EJ series steel cage bearings, available in 65-150 mm bore sizes. Complementing our existing brass cage and full-complement cylindrical roller bearings, the new steel cage product line is available in configurations NJ and NU, and series 22, 23, 2 and 3.
- **EMA SERIES**
  Timken EMA series bearings offer a unique brass cage design, proprietary internal geometries and special surface textures that help optimize performance – making them an excellent choice for more demanding applications.
- **NCF SERIES**
  Timken's full-complement cylindrical roller bearings offer increased power density and radial load carrying capacity by maximizing the number of rollers in a given envelope. The optimized design of our NCF series bearings helps to provide a greater design life and reduce heat generation – an essential benefit in full-complement designs.

With Timken, you gain:

Real-World Experience.

Our global engineering teams collect performance requirements from around the world and design bearings to meet the specifications your applications demand.

Global Quality.

Timken worldwide quality standards are implemented in every manufacturing facility. Our products are held to the same quality and engineering standards - no matter where in the world they are manufactured.

Engineering Expertise.

Every Timken bearing comes with access to our team of experts, providing you with the industry's best design, application and field-engineering support.

CYLINDRICAL ROLLER BEARING SERIES

Cage Type	Dimension Series	Design	Size Range	Cage Construction
EJ	2, 3, 22, 23	NU, NJ	65 mm to 150 mm bore	Stamped steel
EMA	2, 3, 22, 23	N, NU, NJ, NUP	65 mm to 400 mm bore	Machined brass
NCF	29	NCF	65 mm to 800 mm bore	Full complement
NCF	18	NCF	150 mm to 1060 mm bore	Full complement

CYLINDRICAL BEARING NOMENCLATURE

Our bearing nomenclature is based on the standard ISO designations.

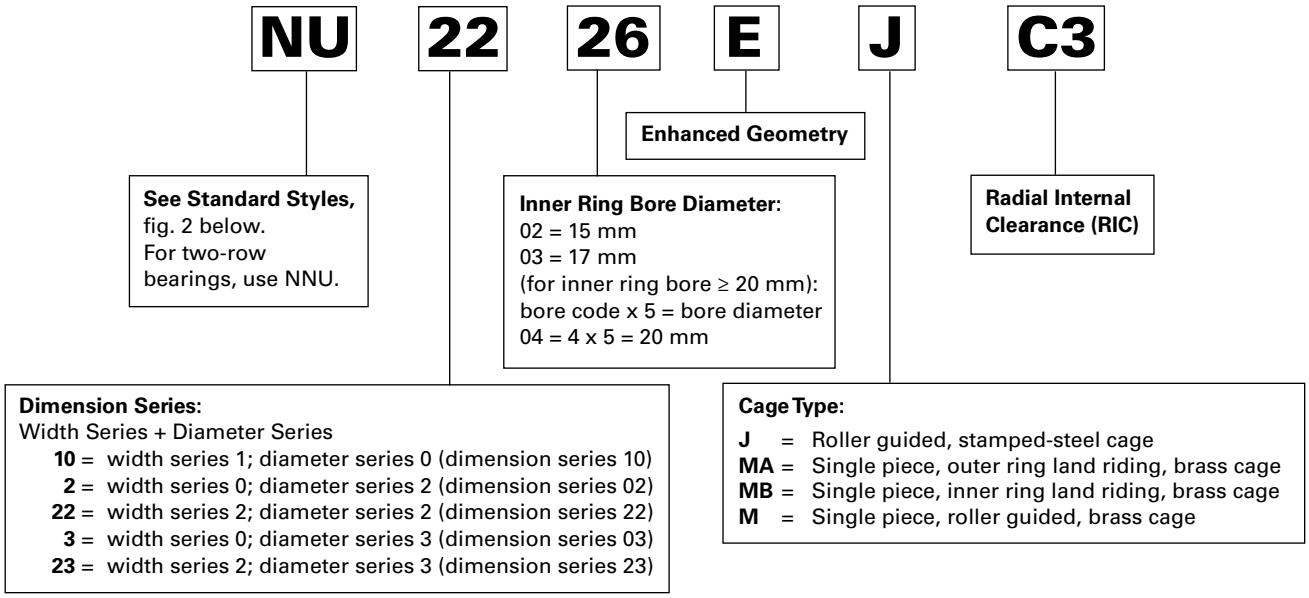

Fig. 1. Metric ISO radial cylindrical roller bearings nomenclature.

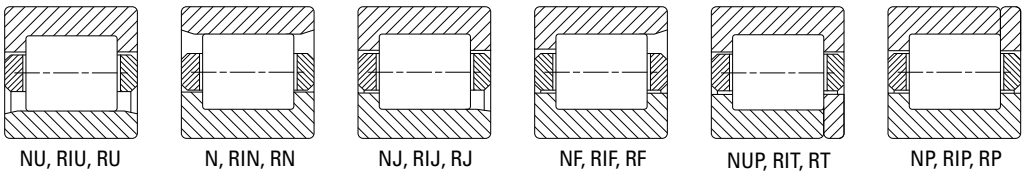

Fig. 2. Standard cylindrical roller bearing styles metric/inch.

FOCUS ON THE FUTURE

At Timken, we continuously expand our product lines to meet the size and configuration demands of our customers. Our heritage in roller bearings has given us the know-how to optimize and innovate across our lines of cylindrical, spherical and tapered roller bearings. To learn more about our expanded line of cylindrical roller bearings, contact your Timken sales representative.

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 bearings, gear drives, automated lubrication systems, belts, brakes, clutches, chain, couplings, linear motion products and related industrial motion rebuild and repair services.

Stronger. By Design.

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