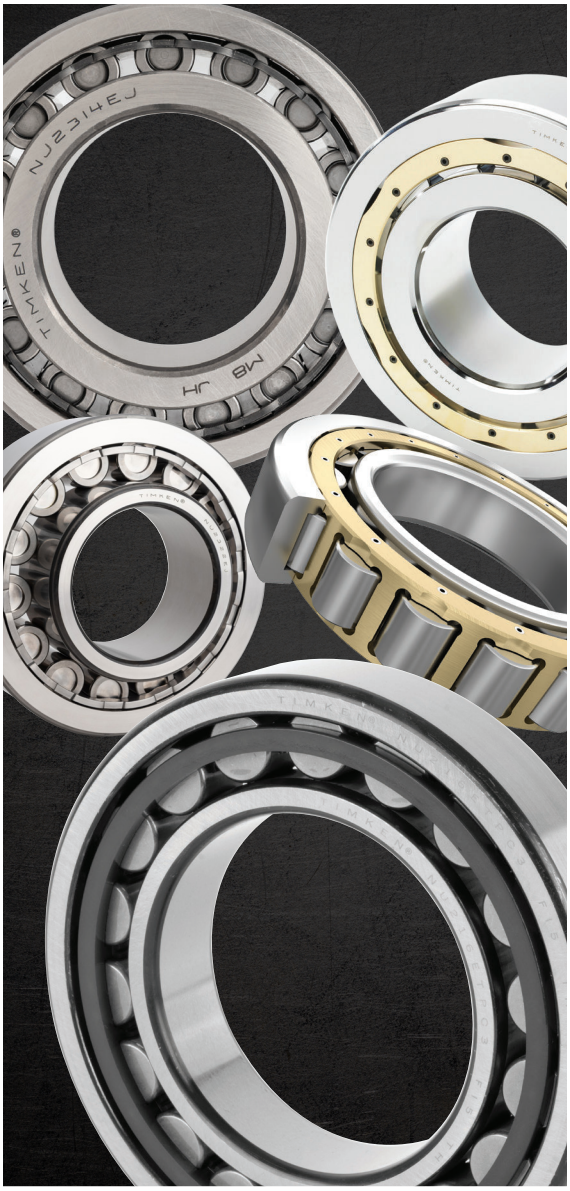


TIMKEN

TIMKEN® CYLINDRICAL ROLLER BEARINGS

EXPANDED OPTIONS FOR HIGH-PERFORMANCE APPLICATIONS

Timken's cylindrical roller bearings, including premium brass cage, steel cage, full-complement designs, and ETP Series with a lightweight polymer cage, deliver proven, reliable performance and expanded options for compact, high-performance applications, solidifying Timken as your one-stop solution for diverse industrial needs.

APPLICATIONS ACROSS INDUSTRIES

Timken cylindrical roller bearings are built for critical applications requiring high radial load capacity and thermal expansion, including:

- Gear drives
- Pumps and compressors
- Material handling equipment
- Construction equipment
- Steel mills
- Paper mills

ETP SERIES (POLYMER CAGE)

Lightweight, low-noise solution for high-speed applications including **pumps and gear drives**.

EJ SERIES (STEEL CAGE)

High strength and cost-effective performance for **gear drives and compressors**.

EMA SERIES (BRASS CAGE)

Superior durability for demanding environments like **steel mills and construction equipment**.

NCF SERIES (FULL-COMPLEMENT)

Maximized roller count for **increased load capacity and extended life** in high-load, low-speed applications.

THE TIMKEN DIFFERENCE

Timken connects you to a global team of engineers dedicated to designing and delivering bearings tailored to your needs. From start to finish, we provide support to ensure your expectations are not just met but exceeded, earning your trust and confidence.

With Timken, you gain:

Engineered Excellence: Over a century of innovation tailored to customer needs.

Proven Durability: Optimized for harsh environments.

Global Quality: Consistent manufacturing standards worldwide.

Lifetime Support: From design to maintenance, Timken experts are by your side.

KEY ADVANTAGES BY CAGE TYPE

CAGE TYPE	KEY BENEFITS	TYPICAL APPLICATIONS	BORE SIZES	DESIGN
Polymer (ETP)	Lightweight, enhanced lubrication, cost-effective	Gear drives, compressors, pumps	15-80 mm	N, NU, NJ, NUP
Steel (EJ)	Efficient operation in demanding industrial applications		65-150 mm	NU, NJ
Machined brass (EMA)	Durable under heat/vibration, self-lubricating	Steel mills, construction equipment	65-400 mm	N, NU, NJ, NUP
Full-Complement (NCF)	Maximized roller load, increased power density, long service life	Heavy-load, low-speed operations	65-1060 mm	NCF

NOMENCLATURE

NU — See **Standard Styles**, below.

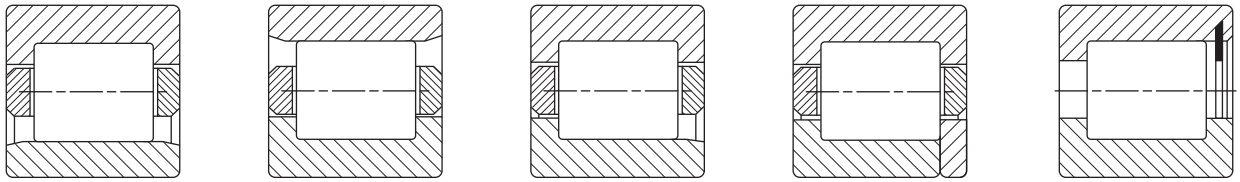
22 — **Dimension Series:**
Width Series + Diameter Series
10 = width series 1; diameter series 0 (dimension series 10)
2 = width series 0; diameter series 2 (dimension series 02)
22 = width series 2; diameter series 2 (dimension series 22)
3 = width series 0; diameter series 3 (dimension series 03)
23 = width series 2; diameter series 3 (dimension series 23)

26 — **Inner Ring Bore Diameter:**
02 = 15 mm
03 = 17 mm
(for inner ring bore ≥ 20 mm):
bore code x 5 = bore diameter
04 = 4 x 5 = 20 mm

EJ — **Cage Type:**
ETP = Roller guided, polyamide cage
EJ = Roller guided, stamped-steel cage
EMA = Single piece, outer ring land riding, brass cage
EMB = Single piece, inner ring land riding, brass cage
V = Full-complement, no cage
EM = Roller Riding

C3 — **Radial Internal Clearance (RIC)**
C2 < C0
Blank / C0 = normal
C3 > C0
C4 > C3

STANDARD CYLINDRICAL ROLLER BEARING STYLES



NU N NJ NUP NCF

FOCUS ON THE FUTURE

The **ETP Series** complements our **EJ, EMA, and NCF Series**, ensuring a comprehensive solution for modern industrial applications. To learn more about our expanded line of cylindrical roller bearings, contact your Timken sales representative or visit timken.com.

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.

www.timken.com

07-25 Order No. 10368 POD | Timken® is a registered trademark of The Timken Company. | © 2025 The Timken Company | Printed in U.S.A.