

Bearings ***For Demanding Applications...***



ROLLWAY® ***Cylindrical Radial Roller Bearings...***

Catalog sizes and engineered to order bearing designs readily available.

- RBEC 5 Precision Class Capability.
- Extra Capacity Designs.
- Multiple Retainer Designs Available.
- High Temperature Designs Available.
- Special Features...
 - *Notches.*
 - *Slots.*
 - *Aligning Features.*
 - *Carburizing Grade Materials.*

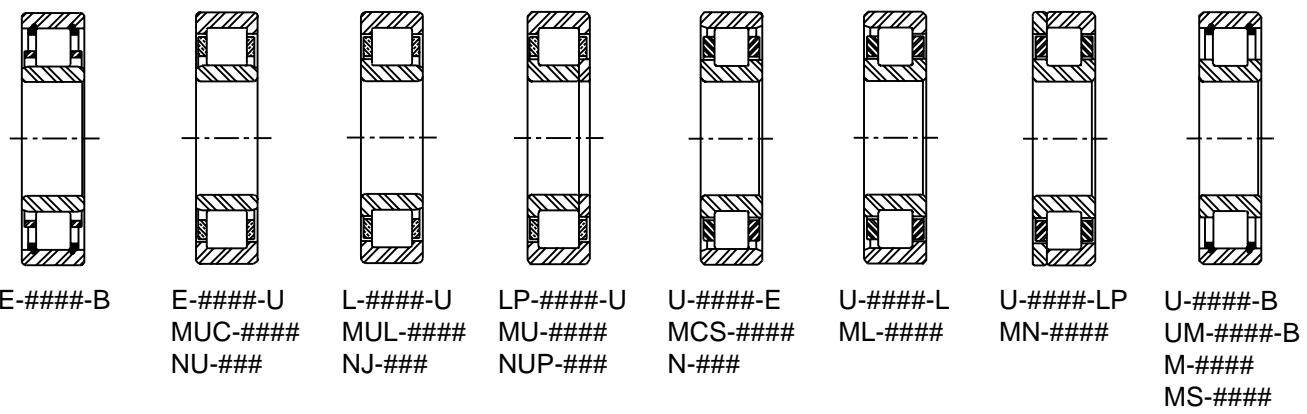
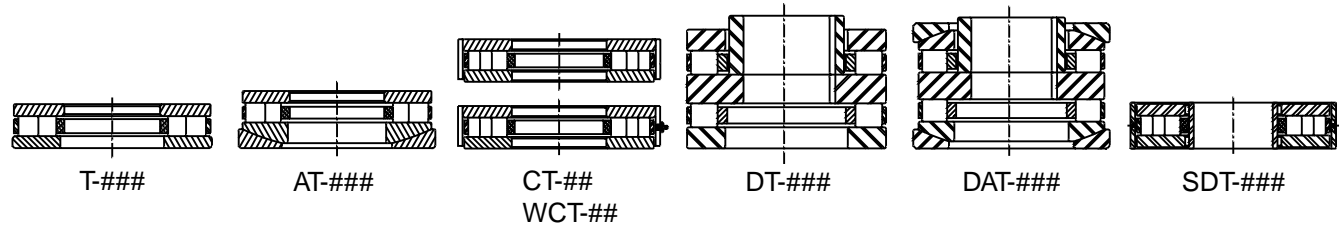
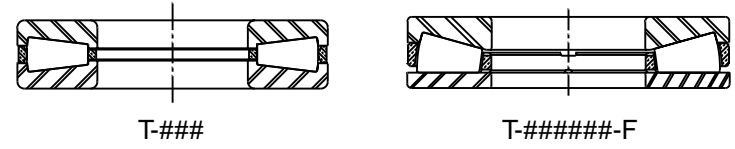
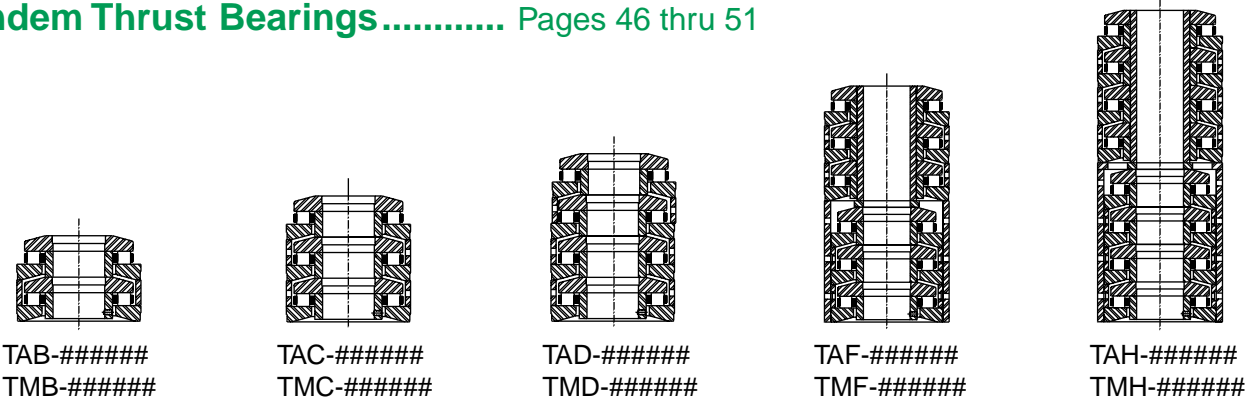
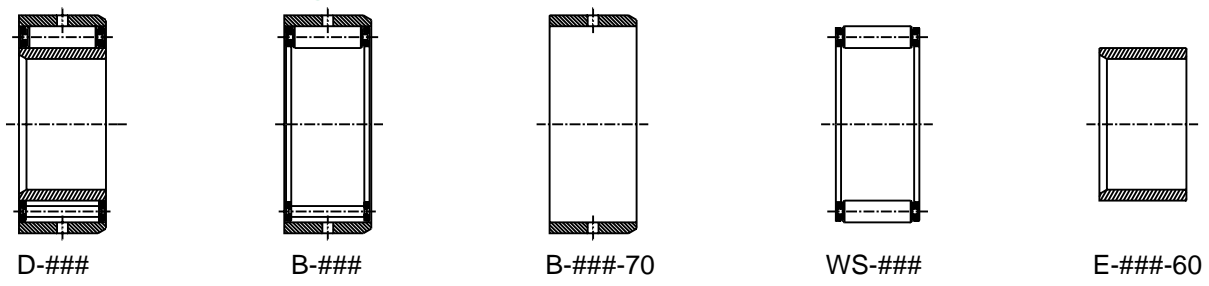
ROLLWAY® ***Roller Thrust Bearings...***

Catalog sizes and engineered to order bearing designs readily available.

- Cylindrical Roller Designs — Catalog and Engineered.
- Aligning, Banded and Double Acting Designs Available.
- Tapered Roller Designs — TTHD & TTVF.
- Cantilever Designs for Minimal Shoulder Support.
- Tandem Thrust 2-8 Stage Designs.
- High Temperature Designs Available.
- High Speed Designs Available.



Engineered Bearings For Your Applications

Radial Roller Bearings Pages 4 thru 29

Cylindrical Thrust Bearings Pages 30 thru 40

Tapered Thrust Bearings Pages 41 thru 45

Tandem Thrust Bearings Pages 46 thru 51

Journal Roller Bearings Pages 57 thru 59




Radial Roller Bearings...

Since 1908 ROLLWAY Bearing produced high quality, engineered cylindrical radial roller bearings. There are hundreds of standard designs available as well as the capability to engineer bearings to satisfy your demanding applications...



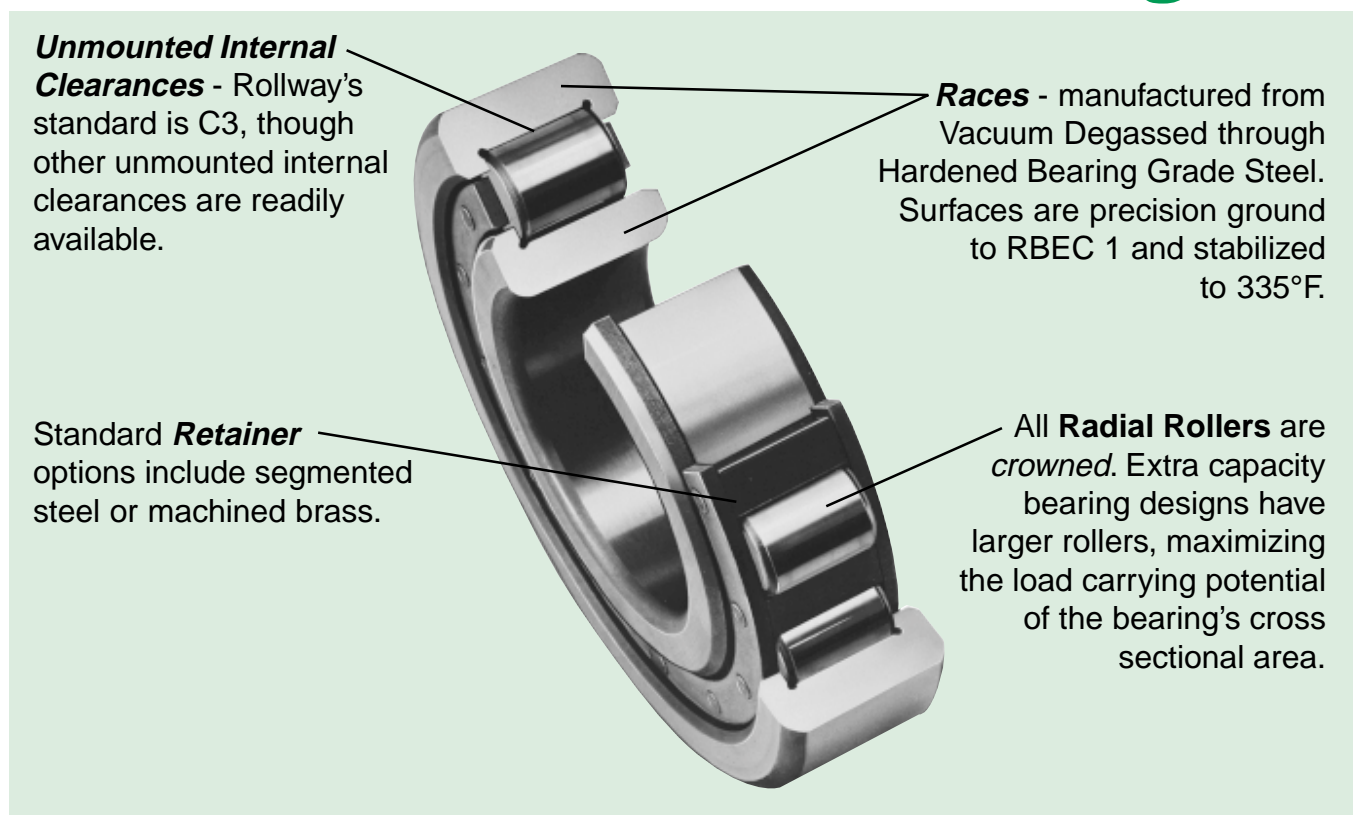
In The Past We Have Solved Some of The Most Demanding Bearing Challenges:

- High speed bearings for aerospace transmissions.
- High temperature bearing designs for Poly-reactor and corrugating equipment.
- Designs for applications using low viscosity lubricants.
- Designs for vibratory and orbiting applications.
- Designs requiring anti-rotation features on the races.
- Bearings with outside diameters of 42”.

Besides providing solutions to industry’s toughest bearing applications, ROLLWAY bearings are manufactured in many standard catalog sizes and styles:

- Multiple configurations per basic size.
- Many different series available.
- Steel and Brass retainer options.
- Extra Capacity Designs.

ROLLWAY Standard Designs

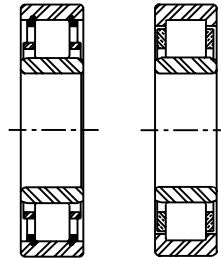




CONFIGURATION & NUMBERING SYSTEM

ROLLWAY® Cylindrical Radial Roller Bearings are available in a vast variety of sizes and configurations ranging from standard cataloged 45mm ID bearings to 1,016mm outside diameter special engineered bearings. This section of the catalog covers ROLLWAY Cylindrical Radial Roller bearing configurations, part numbering, material, retainer design and limiting speeds.

Inner Race Separable, Both Directions

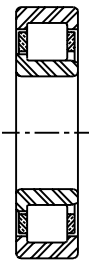


Number Systems

E-####-U
E-####-B
MUC-####
NU-###

Two-flange (or retaining rings) outer race, straight inner race, separable bearing. For applications where axial float in both directions is desired. Roller assembly remains with the outer race.

Inner Race Separable, One Direction



Number Systems

L-####-U
MUL-####
NJ-###

Two-flange outer race, one-flange inner race, separable bearing. For applications where axial float in one direction and axial retention in the other direction is desired. Roller assembly remains with the outer race. Will carry light thrust loads in one axial direction.

Two Piece Inner Race, Four Flange Design



Number Systems

LP-####-U
MU-####
NUP-###

Two-flange outer race, two-flange inner race with one flange plate, separable bearing. For applications where axial retention in both directions is desired. Roller assembly remains with the outer race. Will carry light thrust loads in both axial directions.

Outer Race Separable Both Direction

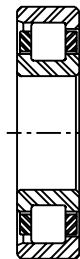


Number Systems

U-####-E
MCS-####
N-###

Straight outer race, two-flange inner race, separable bearing. For applications where axial float is desired. Roller assembly remains with the inner race.

Outer Race Separable One Direction



Number Systems

U-####-L
ML-####

One-flange outer race, two-flange inner race, separable bearing. For applications where axial float in one direction and axial retention in the other directions is desired. Roller assembly remains with the inner race. Will carry light thrust loads in one direction.

Two Piece Outer Race Four Flange Design

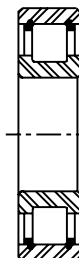


Number Systems

U-####-LP
MN-####

Two-flange outer race with one flange plate, two-flange inner race, separable bearing. For applications where axial retention in both directions is desired. Roller assembly remains with the inner race. Will carry light thrust loads in both axial directions.

Non-Separable



Or when supplied with a full complement of rollers.

Number Systems

U-####-B
MS-####

Number Systems

UM-####-B
M-####

Two snap-ring flange outer race, two-flange inner race, non-separable bearing. No axial retainer of outer race is required when inner race is properly mounted on shaft. See application drawings. Will not carry thrust loads.

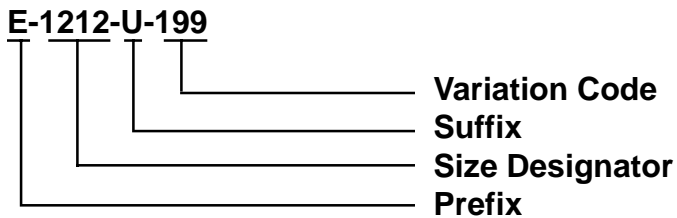
ROLLWAY Numbering Systems...

Over the years the ROLLWAY product offering has increased. Each new product line has its own numbering system resulting in the current offering of multiple nomenclatures. The three basic systems are **TRU-ROL**, **MAX** and **ISO**, described below and on the following two pages.

TRU-ROL Numbering

This system for radial bearings is broken into 4 parts; **Prefix**, **Size Designator**, **Suffix** and **Variation code**.

Example:



PREFIX - Inner race description

E Inner race separable both directions.

L Inner race separable one direction.

LP Two piece inner race, one part is separable one direction, the other is a thrust plate to form a channeled race assembly.

U Inner race with two flanges, non-separable.

UM Inner race with two flanges, non-separable, full complement of rollers.

NONE ... No inner race supplied.

SIZE DESIGNATOR

Available Series; 1000, 1200, 1300, 5200, 5300 and 6200.

SUFFIX - Outer race description

E (EMR) Outer race separable both directions.

L (LMR) Outer race separable one direction.

LP (LPMR) ... Two piece outer race, one part is separable one direction, the other a thrust plate to form a channeled race assembly.

U (UMR) Outer race with two flanges, non-separable.

B Outer race with two snap rings to retain the roller set, non-separable.

J Outer race with one snap ring and one flange to retain the roller set, non-separable.

VARIATION CODES - Variation codes are divided into two categories; **Special** and **Standard**.

Special variation codes...

101 to 129 are numerically assigned codes that designate the variation from standard (example 101 = 1st variation, 102 = 2nd variation, etc.). These bearing code numbers do not in any way reference the modification from standard. Engineering must be contacted for information concerning a particular modification.

Standard variation codes...

001 to 099 & 130 to 199 are code numbers representing standard modifications. The most popular are listed below:

- **K** - Over sized OD.
- **003** - Rollway internal clearance Class 3.
- **005** - Rollway internal clearance Class 5.
- **007** - Rollway internal clearance Class 7.
- **019** - Outer race with SAE ring groove around OD.
- **027** - Outer race with blind hole or locating slot in outer race.
- **191** - Broached retainer.
- **199** - Bearing with SAE ring groove on OD and snap ring furnished.

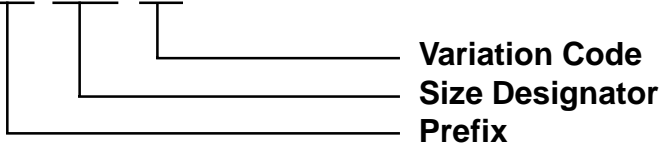


MAX Numbering

This system for radial bearings is broken into 3 parts; **Prefix**, **Size Designator** and **Variation code**.

Example:

MCS-5222-103



PREFIX - Bearing configuration description

ML Bearing assembly with roller assembly retained in inner race, outer race separable one direction.

MCS Bearing assembly with roller assembly retained in inner race, outer race separable both directions.

MN Bearing assembly with roller assembly retained in inner race. Two piece outer race, one part is separable one direction, the other is a thrust plate to form a channel race.

MS Bearing assembly with roller assembly retained in inner race. Outer race with two snap rings to retain the roller set, non-separable.

M Bearing assembly with roller assembly retained in inner race. Outer race with two snap rings to retain the roller set, non-separable with a full complement of rollers.

MUC Bearing assembly with inner race separable both directions. Roller assembly retained in outer race.

MUL Bearing assembly with inner race separable one direction. Roller assembly retained in outer race.

MU Bearing with a two piece inner race, one part is separable one direction, the other is a thrust plate to form a channeled race. Outer race retains the roller assembly.

MR Bearing with a two piece inner race, one part is separable one direction, the other is an HJ ring to form a channel race. Outer race retains the roller assembly.

SIZE DESIGNATOR

Available Series; 100, 200, 300, 5000 and 5100.

VARIATION CODES - Variation codes are divided into two categories; **Special** and **Standard**.

Special variation codes...

101 to 199 are numerically assigned codes that designate the numerical variation from standard (example 101 = 1st variation, 102 = 2nd variation, etc.). These bearing code numbers do not in any way reference the modification from standard. Engineering must be contacted for information concerning a particular modification.

Standard variation codes...

001 to 099 are code numbers representing standard modifications. The most popular are listed below:

- **003** - Rollway internal clearance Class 3.
- **005** - Rollway internal clearance Class 5.
- **007** - Rollway internal clearance Class 7.



Thrust Bearings...

The ROLLWAY offering is one of the most complete lines of standard and engineered roller thrust bearings. Our standard catalog contains inch series cylindrical roller, tapered and multi-stage tandem thrust bearings. We understand the uniqueness of thrust bearing applications and have designed hundreds of custom bearings to solve the most challenging applications.

