

RMX/RMX-T

3-Piece, Metal to Metal or PTFE Lined,
Heat Treated Alloy Steel, Heavy Duty Shank



Rod Ends Precision/ Heavy Duty

Suitable for many heavier load industrial and racing applications, the Tuthill RMX/RMX-T Series employs a 3-piece high strength alloy body (or PTFE lined) rod end design, but with an increased body and larger "step shank" thread size for increased radial and axial strength applications.

The ball is produced from bearing quality steel that is thru hardened and finish ground, adding to its precision fit and increased wear performance. For RMX-T Series, a permanently bonded PTFE liner minimizes wear within the body's inner bearing surface, reducing maintenance and increasing rod end life. The body and race are produced from heat treated alloy steel. Both are zinc plated for extended corrosion resistance. Its clear chromate finish is suited for high visibility exposed surfaces requiring "aesthetically pleasing" bright metal finish. Studded and right or left-handed thread versions are available. Grease fittings are optionally available on the RMX Series.

The RMX/RMX-T Series is just one of many within our broad line of precision/heavy duty rod ends. For full product line detail, contact us for a comprehensive catalog or visit www.tuthill.com and download individual product data sheets and other product information.



Description:

RMX/RMX-T
Precision/Heavy Duty Rod Ends
3-Piece, Metal to Metal or
PTFE Lined, Heat Treated
Alloy Steel, Heavy Duty Shank

Applications:

Heavier load, higher precision motion control devices and applications, including:

- Wide range of industrial equipment
- Racing

Features:

- 3-piece alloy steel body design provides for maximized strength (PTFE lined version also available)
- Increased resistance to radial static load capacity via heavy duty step shank design
- Larger housing design for even heavier loads
- Precision spherical bearing insert allows for optimum contact between the ball and race extending the product life
- Can be used in a wide range of temperatures: -65°F — 250°F (-54°C — 121°C)
- Offered in studded and right or left-handed versions
- Custom assemblies can be built to your specifications
- English sizing and male styles only

RMX/RMX-T

Material

Ball

- 52100 Steel
- Rc 56 Min.
- Hard Chrome Plated

Body

- Alloy Steel, Heat Treated
- Zinc Plated, Clear Chromate Treated

Race: RMX

- Alloy Steel, Heat Treated
- Zinc Plated, Clear Chromate Treated

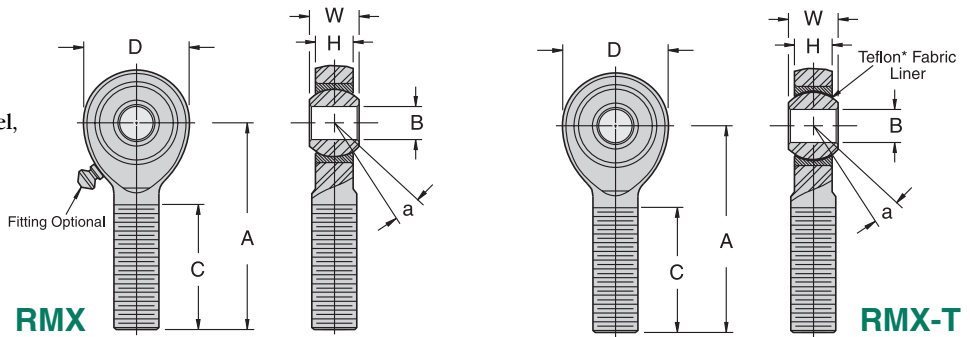
Race: RMX-T

- Low Carbon Steel
- Zinc Plated, Clear Chromate Treated

Liner: RMX-T only

- PTFE Fabric, Permanently Bonded to I.D.

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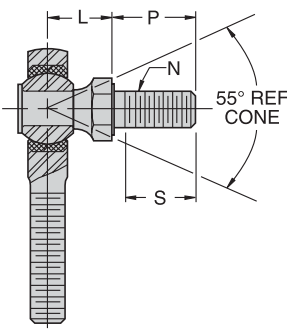
RMX CHART

| Part Number | | B +.0025 -.0005 | W +.000 -.005 | H ±.005 | A ±.015 | D ±.010 | REF | C +.062 -.031 | UNF-3A | a° | Ultimate Radial Static Load Capacity (Pounds) | Approx. Weight (Pounds) |
|-------------|-----------|-----------------------|---------------------|---------------|-------------------|---------------|---------------|---------------------|-------------|----------------|---|-------------------------|
| Right Hand | Left Hand | Ball Bore | Ball Width | Housing Width | Centerline Length | Head Diameter | Ball Diameter | Thread Length | Thread Size | Misalign Angle | | |
| RMX3 | RMXL3 | .1900 | .312 | .250 | 1.562 | .750 | .437 | 1.000 | 1/4-28 | 10 | 5,260 | .043 |
| RMX4 | RMXL4 | .2500 | .375 | .281 | 1.875 | .875 | .500 | 1.250 | 5/16-24 | 13 | 8,452 | .072 |
| RMX5 | RMXL5 | .3125 | .437 | .344 | 1.938 | 1.000 | .625 | 1.250 | 3/8-24 | 12 | 12,978 | .112 |
| RMX6 | RMXL6 | .3750 | .500 | .406 | 2.125 | 1.125 | .719 | 1.375 | 7/16-20 | 10 | 17,508 | .160 |
| RMX7 | RMXL7 | .4375 | .562 | .437 | 2.438 | 1.312 | .812 | 1.500 | 1/2-20 | 12 | 23,452 | .249 |
| RMX8 | RMXL8 | .5000 | .625 | .500 | 2.625 | 1.500 | .937 | 1.625 | 5/8-18 | 10 | 31,390 | .382 |
| RMX10 | RMXL10 | .6250 | .750 | .562 | 2.875 | 1.750 | 1.125 | 1.750 | 3/4-16 | 13 | 40,572 | .602 |

RMX-T CHART

| Part Number | | B +.0025 -.0005 | W +.000 -.005 | H ±.005 | A ±.015 | D ±.010 | REF | C +.062 -.031 | UNF-3A | a° | Ultimate Radial Static Load Capacity (Pounds) | Weight (Pounds) |
|-------------|-----------|-----------------------|---------------------|---------------|-------------------|---------------|---------------|---------------------|-------------|----------------|---|-----------------|
| Right Hand | Left Hand | Ball Bore | Ball Width | Housing Width | Centerline Length | Head Diameter | Ball Diameter | Thread Length | Thread Size | Misalign Angle | | |
| RMX3T | RMXL3T | .1900 | .312 | .250 | 1.562 | .750 | .437 | 1.000 | 1/4-28 | 10 | 5,260 | .043 |
| RMX4T | RMXL4T | .2500 | .375 | .281 | 1.875 | .875 | .500 | 1.250 | 5/16-24 | 13 | 8,452 | .072 |
| RMX5T | RMXL5T | .3125 | .437 | .344 | 1.938 | 1.000 | .625 | 1.250 | 3/8-24 | 12 | 12,978 | .112 |
| RMX6T | RMXL6T | .3750 | .500 | .406 | 2.125 | 1.125 | .719 | 1.375 | 7/16-20 | 10 | 17,508 | .160 |
| RMX7T | RMXL7T | .4375 | .562 | .437 | 2.438 | 1.312 | .812 | 1.500 | 1/2-20 | 12 | 23,452 | .249 |
| RMX8T | RMXL8T | .5000 | .625 | .500 | 2.625 | 1.500 | .937 | 1.625 | 5/8-18 | 10 | 31,390 | .382 |
| RMX10T | RMXL10T | .6250 | .750 | .562 | 2.875 | 1.750 | 1.125 | 1.750 | 3/4-16 | 13 | 40,572 | .602 |

Chart Notes: 1. For standard lubrication fitting, add "Z" to suffix. Example: RMX10Z
2. This series is also available in a studded configuration. Specify by adding "S" to suffix. Example: RMX10S



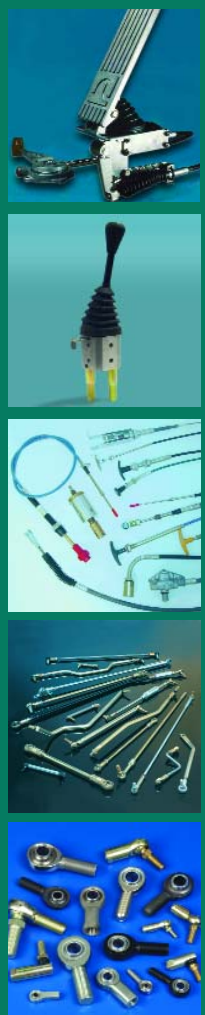
Studded Dimensions

| Rod End Bore Size | L REF | P ±.030 | S Min. Thread Length | N Thread Size UNF-2A |
|-------------------|----------|------------|-------------------------|-------------------------|
| 3/16" | .437 | .438 | .375 | 10-32 |
| 1/4" | .469 | .563 | .500 | 1/4-28 |
| 5/16" | .531 | .688 | .594 | 5/16-24 |
| 3/8" | .625 | .875 | .781 | 3/8-24 |
| 7/16" | .844 | 1.062 | .937 | 7/16-20 |
| 1/2" | .875 | 1.125 | 1.000 | 1/2-20 |
| 5/8" | 1.000 | 1.125 | 1.000 | 5/8-18 |
| 3/4" | 1.187 | 1.812 | 1.625 | 3/4-16 |

Product Selector Guide

- Rod Ends — Industrial/Commercial
- Rod Ends — Precision/Heavy Duty
- Spherical Bearings
- Ball Joints
- Swivels
- Clevises/Safety Fasteners/Pins

Linking Motion & Control...
The Tuthill Solution



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• Please refer to the Warning statement and appropriate installation usage information in the Tuthill Technical/Application Data brochure
• For application assistance/technical questions, please contact (tjtech@tuthill.com) or phone (260-749-5105)