

MJ-M/FJ-M

Molded Race,
Self-Lubricating, Metric



Rod Ends Industrial/ Commercial

Suitable for many light and heavy/medium industrial/mechanical motion transfer applications requiring metric thread sizing, the Tuthill MJ-M/FJ-M Series offers an injection-molded, reinforced nylon raceway design. It delivers low maintenance, self-lubricating characteristics, as well as moisture-resistance properties, adding to its overall versatility. Ball and body materials are produced from an economical low carbon steel and the ball is nickel plated for improved corrosion resistance (ball is also case hardened for extended wear). The body is yellow dichromate treated for extended corrosion resistance. Suited for applications requiring low friction, low moisture absorption, high wear resistance and/or wide operating temperature ranges. Studded and right or left-handed thread versions are available.

The MJ-M/FJ-M Series is just one of many within our broad line of industrial/commercial 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:

MJ-M/FJ-M
Industrial/Commercial Rod Ends
Molded Race, Self-Lubricating,
Metric

Applications:

Numerous mechanical motion transfer devices/applications, including:

- Construction equipment
- Recreational vehicles (ATV's, golf carts, etc.)
- Truck/off highway

Features:

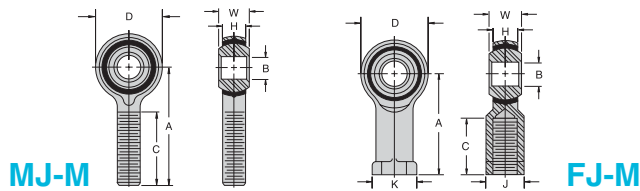
- Nylon molded raceway delivers self-lubricating low friction and moisture-resistant performance
- Good wear resistance
- Design allows for control of breakaway torque, adding to its application versatility
- Can be used in a wide range of temperatures: -30°F — 220°F (-34°C — 104°C)
- Offered in studded and right or left-handed versions
- Special custom alloy construction available
- Custom assemblies can be built to your specifications

Other Related Products:

- SPM/SPF
English, Molded Race

MJ-M/FJ-M

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Material

Ball

- Low Carbon Steel
- Electroless Nickel Plated

Body

- Low Carbon Steel
- Zinc Plated, Yellow Dichromate Treated

Race

- Molded, Self-Lubricating Reinforced Nylon

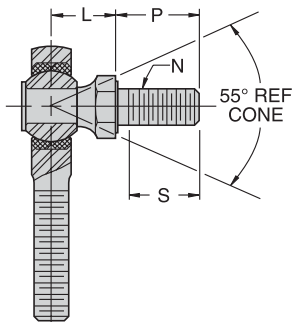
Linking Motion
& Control...
The Tuthill
Solution



MJ-M Chart											
Part Number		B +.063 -.013	W ±.13	H REF	A ±.25	C Min.	D ±.13	6g	Ultimate Radial Static Load Capacity (Newtons)	Ball Diameter Ref.	Weight (Grams)
Right Hand	Left Hand	Ball Bore	Ball Width	Body Width	Centerline Length	Thread Length	Head Diameter	Thread Size			
MJ03MST	MLJ03MST	3	6	4.50	27	15	12	M3x0.5	3,038	9.0	10
MJ05MST	MLJ05MST	5	8	6.00	33	20	16	M5x0.8	5,338	11.1	15
MJ06MST	MLJ06MST	6	9	6.75	36	22	18	M6x1.0	7,722	13.1	20
MJ08MST	MLJ08MST	8	12	9.00	42	25	22	M8x1.25	12,775	15.8	35
MJ10MST	MLJ10MST	10	14	10.50	48	29	26	M10x1.5	16,960	19.2	50
MJ12MST	MLJ12MST	12	16	12.00	54	33	30	M12x1.75	22,898	22.3	65
MJ14MST	MLJ14MST	14	19	13.50	60	36	34	M14x2.0	28,948	25.4	100
MJ16MST	MLJ16MST	16	21	15.00	66	40	38	M16x2.0	37,127	28.5	179
MJ18MCST	MLJ18MCST	18	23	16.50	72	43	46	M18x1.5	45,730	31.7	209
MJ20MCST	MLJ20MCST	20	25	18.00	78	46	50	M20x1.5	55,235	34.9	289
MJ22MCST	MLJ22MCST	22	28	20.00	84	50	56	M22x1.5	66,289	38.1	323

FJ-M Chart													
Part Number		B +.063 -.013	W ±.13	H REF	A ±.25	C Min.	D ±.13	K ±.2	J +0 -2	6H	Ultimate Radial Static Load Capacity (Newtons)	Ball Diameter Ref.	Weight (Grams)
Right Hand	Left Hand	Ball Bore	Ball Width	Body Width	Centerline Length	Thread Length	Head Diameter	W.F. Diameter	W.F. Width	Thread Size			
FJ03MST	FLJ03MST	3	6	4.50	21	10	12	8	6.50	M3x0.5	3,038	9.0	14
FJ05MST	FLJ05MST	5	8	6.00	27	14	16	11	9.00	M5x0.8	5,338	11.1	20
FJ06MST	FLJ06MST	6	9	6.75	30	14	18	13	11.00	M6x1.0	7,722	13.1	30
FJ08MST	FLJ08MST	8	12	9.00	36	17	22	16	14.00	M8x1.25	12,775	15.8	39
FJ10MST	FLJ10MST	10	14	10.50	43	21	26	19	17.00	M10x1.5	16,960	19.2	75
FJ10MCST	FLJ10MCST	10	14	10.50	43	21	26	19	17.00	M10x1.25	16,960	19.2	75
FJ12MST	FLJ12MST	12	16	12.00	50	24	30	22	19.00	M12x1.75	22,898	22.3	124
FJ12MCST	FLJ12MCST	12	16	12.00	50	24	30	22	19.00	M12x1.5	22,898	22.3	124
FJ14MST	FLJ14MST	14	19	13.50	57	37	34	25	22.00	M14x2.0	28,948	25.4	174
FJ16MST	FLJ16MST	16	21	15.00	64	33	38	27	22.00	M16x2.0	37,127	28.5	229
FJ17MCST	FLJ17MCST	16	21	15.00	64	33	38	27	22.00	M16x1.5	37,127	28.5	229
FJ18MST	FLJ18MST	18	23	16.50	71	35	46	31	27.00	M18x1.5	45,730	31.7	309
FJ20MST	FLJ20MST	20	25	18.00	77	32	50	34	32.00	M20x1.5	55,235	34.9	358
FJ22MST	FLJ22MST	22	28	20.00	84	36	56	37	32.00	M22x1.5	66,289	38.1	423

Chart Notes: 1. This series is also available in a studed configuration. Specify by adding "S" to suffix. Example: FJ20MSTS
2. All dimensions are listed in millimeters unless otherwise noted.



Studded Dimensions				
Rod End Bore Size	L REF	P ±.030	S Min. Thread Length	N Thread Size 6g
5mm	9.0	13.0	10.0	M5x.8
6mm	10.0	14.0	11.0	M6x1.0
8mm	12.0	17.5	14.0	M8x1.25
10mm	16.5	23.0	19.5	M10x1.5
12mm	19.5	28.5	24.5	M12x1.75
14mm	20.5	33.0	29.0	M14x2.0
16mm	24.0	38.0	34.0	M16x2.0

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



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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 (tlgtech@tuthill.com) or phone (260-749-5105)