



**Metric table**

Dimensions in: millimeters - inches

<b>1</b> d <sub>1</sub> H7 Bore	<b>2</b> d <sub>2</sub> Right hand thread	<b>3</b> Left hand thread	l <sub>3</sub>	b <sub>1</sub>	b <sub>2</sub>	d <sub>3</sub>	d <sub>4</sub>	l <sub>1</sub>	l <sub>2</sub>	w Max. tilting angle	Static load
5 0.20	M 5	M 5L	19 0.75	8 0.31	6 0.24	7.7 0.30	18 0.71	33 1.30	42 1.65	13°	0.3 kN 67.44 lbf
6 0.24	M 6	M 6L	21 0.83	9 0.35	6.75 0.27	8.9 0.35	20 0.79	36 1.42	46 1.81	13°	0.4 kN 89.92 lbf
8 0.31	M 8	M 8L	25 0.98	12 0.47	9 0.35	10.4 0.41	24 0.94	42 1.65	54 2.13	14°	0.8 kN 180 lbf
10 0.39	M 10	M 10L	28 1.10	14 0.55	10.5 0.41	12.9 0.51	28 1.10	48 1.89	62 2.44	13°	1.3 kN 292 lbf
12 0.47	M 12	M 12L	32 1.26	16 0.63	12 0.47	15.4 0.61	32 1.26	54 2.13	70 2.76	13°	1.7 kN 382 lbf
12 0.47	M 12 x 1.25	M 12 x 1.25L	32 1.26	16 0.63	12 0.47	15.4 0.61	32 1.26	54 2.13	70 2.76	13°	1.7 kN 382 lbf
14 0.55	M 14	M 14L	36 1.42	19 0.75	13.5 0.53	16.8 0.66	36 1.42	60 2.36	78 3.07	15°	3.6 kN 809 lbf
16 0.63	M 16	M 16L	37 1.46	21 0.83	15 0.59	19.3 0.76	42 1.65	66 2.60	87 3.43	15°	4.8 kN 1079 lbf
18 0.71	M 18 x 1.5	M 18 x 1.5L	41 1.61	23 0.91	16.5 0.65	21.8 0.86	46 1.81	72 2.83	95 3.74	15°	5.1 kN 1147 lbf
20 0.79	M 20 x 1.5	M 20 x 1.5L	45 1.77	25 0.98	18 0.71	24.3 0.96	50 1.97	78 3.07	103 4.06	14°	5.2 kN 1169 lbf
22 0.87	M 22 x 1.5	M 22 x 1.5L	48 1.89	28 1.10	20 0.79	25.8 1.02	54 2.13	84 3.31	111 4.41	15°	7.5 kN 1686 lbf
25 0.98	M 24 x 2	M 24 x 2L	58 2.28	31 1.22	22 0.87	29.6 1.17	60 2.36	94 3.70	124 4.88	15°	8.5 kN 1911 lbf
30 1.18	M 30 x 2	M 30 x 2L	71 2.80	37 1.46	25 0.98	34.8 1.37	70 2.76	110 4.33	145 5.71	15°	10.8 kN 2428 lbf

**Specification**

- Housing  
Steel  
- Zinc plated, blue passivated finish  
- Temperature resistant up to 300 °F (149 °C)
- Bearing socket  
Sintered bronze  
Oil impregnated, self-lubricating
- Internal ring  
Steel  
Hardened and ground
- ISO Fundamental Tolerances → page 2129
- RoHS compliant

**Information**

DIN 648 rod end bearings are used in controlling and linking mechanisms in all types of machines. Suitable for high load, low speed applications with hanging angles, required linear, rotational or oscillatory motions.

The bearing socket is made of a special bronze material which makes these rod end bearings self-lubricating, maintenance-free, and guarantees lowest friction. In addition, these rod end bearings have less increase of clearance after longer operating hours than rod end bearings with PTFE surface, and therefore a higher life expectancy.

see also...

- Rod End Bearings DIN 648 (Metric Sizes, Tapped Type) → page 1738
- Rod End Bearings WN 648 (Inch Sizes, Tapped Type) → page 1736
- Rod End Bearings WN 648 (Inch Sizes, with Threaded Stem) → page 1737

<b>How to order</b> <b>DIN648-8-M8-25</b>	<b>1</b> Bore d <sub>1</sub>
	<b>2</b> Thread d <sub>2</sub>
	<b>3</b> Length l <sub>3</sub>