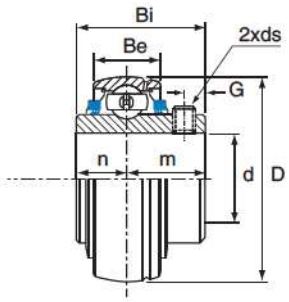
# Inserts

UCX 00 Inserts




TRL Seal

## UCX 00 Inserts with Set Screws (Medium Duty)

| Bearing Unit | Shaft Dia. d inch | d mm | D | Bi | Be | n | m | G | ds inch | ds mm | Load Rating (kg) Dynamic | Load Rating (kg) Static | Mass kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UCX05<br>UCX05-16 | 1" | 25 | 62 | 38.1 | 19 | 15.9 | 22.2 | 6 | 1/4"-28UNF | M6X1.0 | 1520 | 1020 | 0.39<br>0.38 |
| UCX06<br>UCX06-20 | 1.1/4" | 30 | 72 | 42.9 | 20 | 17.5 | 25.4 | 6.5 | 5/16"-24UNF | M8X1.0 | 2010 | 1390 | 0.58<br>0.55 |
| UCX07<br>UCX07-20<br>UCX07-22 | 1.1/4"<br>1.3/8" | 35 | 80 | 49.2 | 21 | 19.0 | 30.2 | 8.0 | 5/16"-24UNF<br>5/16"-24UNF | M8X1.0 | 2560 | 1810 | 0.72<br>0.75<br>0.72 |
| UCX08<br>UCX08-24 | 1.1/2" | 40 | 85 | 49.2 | 22 | 19.0 | 30.2 | 8.0 | 5/16"-24UNF | M8X1.0 | 2650 | 1910 | 0.83<br>0.87 |
| UCX09<br>UCX09-28 | 1.3/4" | 45 | 90 | 51.6 | 24 | 19.0 | 32.6 | 10.0 | 3/8"-24UNF | M10X1.0 | 2750 | 2020 | 0.95<br>0.97 |
| UCX10<br>UCX10-32 | 2" | 50 | 100 | 55.6 | 25 | 22.2 | 33.4 | 10.0 | 3/8"-24UNF | M10X1.0 | 3400 | 2550 | 1.29<br>1.26 |
| UCX11<br>UCX11-36 | 2.1/4" | 55 | 110 | 65.1 | 27 | 25.4 | 39.7 | 10.0 | 3/8"-24UNF | M10X1.0 | 4100 | 3150 | 1.80<br>1.70 |
| UCX12<br>UCX12-38 | 2.3/8" | 60 | 120 | 65.1 | 28 | 25.4 | 39.7 | 10.0 | 3/8"-24UNF | M10X1.0 | 4480 | 3470 | 2.05<br>2.03 |
| UCX13<br>UCX13-40 | 2.1/2" | 65 | 125 | 74.6 | 30 | 30.2 | 44.4 | 12.0 | 7/16"-20UNF | M12X1.5 | 4870 | 3810 | 2.52<br>2.61 |
| UCX14<br>UCX14-44 | 2.3/4" | 70 | 130 | 77.8 | 30 | 33.3 | 44.5 | 12.0 | 7/16"-20UNF | M12X1.5 | 5190 | 4190 | 2.74<br>2.75 |
| UCX15<br>UCX15-48 | 3" | 75 | 140 | 82.6 | 32 | 33.3 | 49.3 | 14.0 | 7/16"-20UNF | M12X1.5 | 5700 | 4550 | 3.41<br>3.32 |

## Bearing Speeds

The maximum rotational speed of a grease lubricated ball bearing is related to the fit between shaft and bearing.

Under normal operating conditions the fit between the bearing and shaft should be h7. The maximum permissible bearing speeds are shown on the right.

A looser fit, allowing lower speeds is recommended for lighter loads and a tighter fit allowing higher speeds is recommended for heavier loads

| Bearing No. | Max Speed rev/min | Bearing No. | Max Speed rev/min |
|---|---|---|---|
| 201 | 4500 | 210 | 1800 |
| 202 | 4500 | 211 | 1600 |
| 203 | 4500 | 212 | 1500 |
| 204 | 4000 | 213 | 1400 |
| 205 | 3400 | 214 | 1300 |
| 206 | 2800 | 215 | 1200 |
| 207 | 2400 | 216 | 1100 |
| 208 | 2200 | 217 | 1000 |
| 209 | 1900 | 218 | 950 |