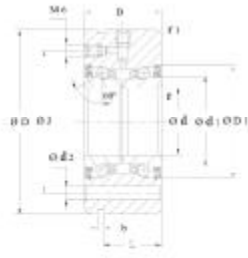


High Precision Axial Angular Contact Ball Bearings For Guide Screw

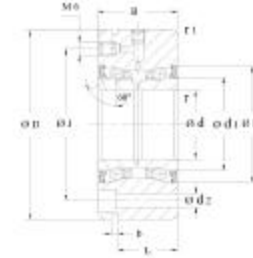
HMEC

Double direction suitable for flange mounting

Series ZKLF...2RS
ZKLF...ZZ



ZKLF...2RS
ZKLF...ZZ (d≤50mm)



ZKLF...ZZ (60≤d≤100mm)

| Shaft diameter | Dimensions | | | | | | | | | | | Pitch |
|----------------|----------------------|----------------------|-------|----------------|----------------|-----|----------------|-----|----------------|---|----|--------------------|
| | d | D | B | d ₁ | D ₁ | r | r ₁ | J | d ₂ | b | L | |
| | -0.005 ⁵⁾ | -0.010 ⁶⁾ | -0.25 | | | min | min | | | | | Quantity X1 |
| 12 | 12 | 55 | 25 | 25 | 33.5 | 0.3 | 0.6 | 42 | 6.5 | 3 | 17 | 3X120 ⁰ |
| 15 | 15 | 60 | 25 | 28 | 36 | 0.3 | 0.6 | 46 | 6.5 | 3 | 17 | 3X120 ⁰ |
| 17 | 17 | 62 | 25 | 30 | 38 | 0.3 | 0.6 | 48 | 6.5 | 3 | 17 | 3X120 ⁰ |
| 20 | 20 | 68 | 28 | 34.5 | 44 | 0.3 | 0.6 | 53 | 6.5 | 3 | 19 | 4X90 ⁰ |
| 25 | 25 | 75 | 28 | 40.5 | 49 | 0.3 | 0.6 | 58 | 6.5 | 3 | 19 | 4X90 ⁰ |
| 30 | 30 | 80 | 28 | 45.5 | 54 | 0.3 | 0.6 | 63 | 6.5 | 3 | 19 | 6X60 ⁰ |
| 35 | 35 | 90 | 34 | 52 | 63 | 0.3 | 0.6 | 75 | 8.5 | 3 | 25 | 4X90 ⁰ |
| 40 | 40 | 100 | 34 | 58 | 68 | 0.3 | 0.6 | 80 | 8.5 | 3 | 25 | 4X90 ⁰ |
| 50 | 50 | 115 | 34 | 72 | 82 | 0.3 | 0.6 | 94 | 8.5 | 3 | 25 | 6X60 ⁰ |
| 60 | 60 | 145 | 45 | 85 | 100 | 0.6 | 0.6 | 120 | 8.5 | 3 | 35 | 8X45 ⁰ |
| 70 | 70 | 155 | 45 | 95 | 110 | 0.6 | 0.6 | 130 | 8.5 | 3 | 35 | 8X45 ⁰ |
| 80 | 80 | 165 | 45 | 105 | 120 | 0.6 | 0.6 | 140 | 8.5 | 3 | 35 | 8X45 ⁰ |
| 90 | 90 | 190 | 55 | 120 | 138 | 0.6 | 0.6 | 165 | 10.5 | 3 | 45 | 8X45 ⁰ |
| 100 | 100 | 200 | 55 | 132 | 150 | 0.6 | 0.6 | 175 | 10.5 | 3 | 45 | 8X45 ⁰ |

| Basic Load rating | | Limiting speed n _G grease | Bearing frictional torque M _{RL} | Axial rigidity C _{aL} | Tilting rigidity C _{kL} | Code bearing | Mass |
|-------------------|----------------------|---|--|-----------------------------------|-------------------------------------|----------------|------|
| dyn. C | stat. C ₀ | | | | | | |
| kN | min ⁻¹ | Nm | N/um | Nm/mrad | HMEC | kg | |
| 17 | 24.7 | 3800 | 0.16 | 375 | 50 | ZKLF 1255.2RS | 0.37 |
| 17 | 24.7 | 7600 | 0.08 | 375 | 50 | ZKLF 1255.2Z | 0.37 |
| 17.9 | 28 | 3500 | 0.2 | 400 | 65 | ZKLF 1560.2RS | 0.43 |
| 17.9 | 28 | 7000 | 0.1 | 400 | 65 | ZKLF 1560.2Z | 0.43 |
| 18.8 | 31 | 3300 | 0.24 | 450 | 80 | ZKLF 1762.2RS | 0.45 |
| 18.8 | 31 | 6600 | 0.12 | 450 | 80 | ZKLF 1762.2Z | 0.45 |
| 26 | 47 | 3000 | 0.3 | 650 | 140 | ZKLF 2068.2RS | 0.61 |
| 26 | 47 | 5400 | 0.15 | 650 | 140 | ZKLF 2068.2Z | 0.61 |
| 27.5 | 55 | 2600 | 0.4 | 750 | 200 | ZKLF 2575.2RS | 0.72 |
| 27.5 | 55 | 4700 | 0.2 | 750 | 200 | ZKLF 2575.2Z | 0.72 |
| 29 | 64 | 2200 | 0.5 | 850 | 300 | ZKLF 3080.2RS | 0.78 |
| 29 | 64 | 4300 | 0.25 | 850 | 300 | ZKLF 3080.2Z | 0.78 |
| 41 | 89 | 2000 | 0.6 | 900 | 400 | ZKLF 3590.2RS | 1.13 |
| 41 | 89 | 3800 | 0.3 | 900 | 400 | ZKLF 3590.2Z | 1.13 |
| 43 | 101 | 1800 | 0.7 | 1000 | 550 | ZKLF 40100.2RS | 1.46 |
| 43 | 101 | 3300 | 0.35 | 1000 | 550 | ZKLF 40100.2Z | 1.46 |
| 46.5 | 126 | 1500 | 0.9 | 1250 | 1000 | ZKLF 50115.2RS | 1.86 |
| 46.5 | 126 | 3000 | 0.45 | 1250 | 1000 | ZKLF 50115.2Z | 1.86 |
| 84 | 214 | 3000 | 1 | 1300 | 1650 | ZKLF 60145.2Z | 4.3 |
| 88 | 241 | 2800 | 1.2 | 1450 | 2250 | ZKLF 70155.2Z | 4.9 |
| 91 | 265 | 2700 | 1.4 | 1600 | 3000 | ZKLF 80165.2Z | 5.3 |
| 135 | 395 | 2300 | 2.3 | 1700 | 4400 | ZKLF 90190.2Z | 8.7 |
| 140 | 435 | 2150 | 2.6 | 1900 | 5800 | ZKLF 100200.2Z | 9.3 |