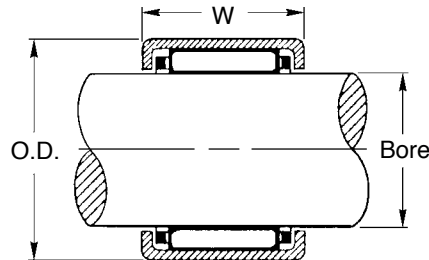




## Shell-Type NEEDLE ROLLER BEARINGS-OPEN END

- 52100 Hardened Chrome Steel Needle Bearing
- Low Carbon Steel Bearing Cage
- Case-Hardened Steel Roller Cup
- Drawn Cup
- Cage Guided



### Features:

- Extremely high speed
- High load capacity
- Low profile, lightweight caged
- Caged needle bearings offer up to 3X the speed of uncaged designs
- Extremely low rolling friction
- High lubrication capacity
- Low sensitivity to misalignment
- Needles have high length to diameter ratios

| Catalog Number  | Bore             | O.D.             | Shaft Diameter   |                  | W<br>+.000<br>-.010                            | Limiting Speed*<br>rpm                           | Load Capacities lbs.                          |  | Housing Diameter |                  |
|---|------------------|------------------|------------------|------------------|--|--|---|--|------------------|------------------|
|   |                  |                  | Min.             | Max.             |  |  | Dynamic                                       | Static   | Min.             | Max.             |
| BNDSCE-188<br>BNDSCE-1812<br>BNDSCE-1816  | 1.1250           | 1.3750           | 1.1245           | 1.1250           | .500<br>.750<br>1.000                          | 9000   | 2900<br>4250<br>5800                          | 4550<br>7500<br>11100                            | 1.3745           | 1.3755           |
| BNDSCE-208<br>BNDSCE-2012<br>BNDSCE-2016<br>BNDSCE-2020                               | 1.2500           | 1.5000           | 1.2495           | 1.2500           | .500<br>.750<br>1.000<br>1.250                 | 8000   | 3000<br>4750<br>6100<br>7500                  | 4950<br>8900<br>12300<br>16100                   | 1.4995           | 1.5005           |
| BNDSCE-2110   | 1.3125           | 1.6250           | 1.3120           | 1.3125           | .625   | 7600   | 4750  | 7600   | 1.6245           | 1.6255           |
| BNDSCE-228<br>BNDSCE-2212   | 1.3750           |                  | 1.3745           | 1.3750           | .500<br>.750                                   | 5300<br>9600                                     | 3050<br>4800                                  | 5300<br>9600                                     |                  |                  |
| BNDSCE-248<br>BNDSCE-2410<br>BNDSCE-2412<br>BNDSCE-2414<br>BNDSCE-2416<br>BNDSCE-2420 | 1.5000           | 1.8750           | 1.4995           | 1.5000           | .500<br>.625<br>.750<br>.875<br>1.000<br>1.250 | 5800<br>8300<br>10900<br>13500<br>14900<br>19200 | 4200<br>5500<br>6800<br>8100<br>8700<br>10600 | 5800<br>8300<br>10900<br>13500<br>14900<br>19200 | 1.8745           | 1.8755           |
| BNDSCE-2610<br>BNDSCE-2620  | 1.6250           | 2.0000           | 1.6245           | 1.6250           | .625<br>1.250                                  | 8900<br>21900                                    | 5700<br>11400                                 | 8900<br>21900                                    | 1.9995           | 2.0005           |
| BNDSCE-2816<br>BNDSCE-3216  | 1.7500<br>2.0000 | 2.1250<br>2.3750 | 1.7495<br>1.9995 | 1.7500<br>2.0000 | 1.000  | 17000<br>17900                                   | 9300  | 17000<br>17900                                   | 2.1245<br>2.3745 | 2.1255<br>2.3755 |
| BNDSCE-3612<br>BNDSCE-3616  | 2.2500           | 2.6250           | 2.2494           | 2.2500           | .750<br>1.000                                  | 16200<br>24000                                   | 8400<br>11300                                 | 16200<br>24000                                   | 2.6245           | 2.6255           |

**NOTE:** Hardened shafts required Rc 58 min.

\*Limiting speeds shown apply to oil lubrication. With grease, 60% of the given values are permissible. See following section for available inner rings. Closed end bearings available on special order.