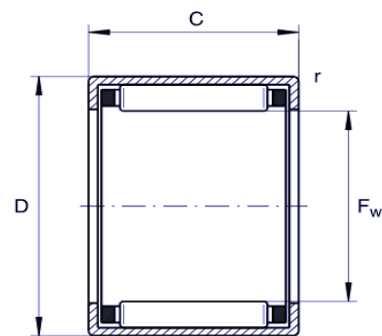




# SCE SERIES

## CAGED IMPERIAL DRAWN CUP NEEDLE ROLLER BEARINGS

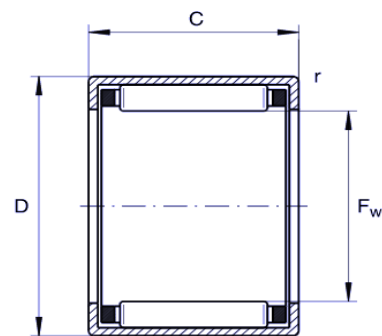


| Shaft<br>Diameter<br>Inches | Bearing Part Number | Mass<br>Approx | Boundary Dimensions |       |      | Basic Load Rating |        | Limiting Speed |
|-----------------------------|---------------------|----------------|---------------------|-------|------|-------------------|--------|----------------|
|                             |                     |                | Fw                  | D     | C    | Dynamic           | Static | Oil            |
|                             |                     | g              | Inches              |       |      | N                 |        | rpm            |
| 1/4                         | SCE44               | 0.0021         | 1/4                 | 7/16  | 1/4  | 1602              | 1157   | 35000          |
|                             | SCE45               | 0.0025         | 1/4                 | 7/16  | 5/16 | 2536              | 2092   | 35000          |
|                             | SCE47OH             | 0.0040         | 1/4                 | 7/16  | 7/16 | 4000              | 3800   | 35000          |
| 5/16                        | SCE55               | 0.0030         | 5/16                | 1/2   | 5/16 | 2892              | 2625   | 29000          |
|                             | SCE59OH             | 0.0060         | 5/16                | 1/2   | 9/16 | 5900              | 6450   | 29000          |
| 3/8                         | SCE65               | 0.0035         | 3/8                 | 9/16  | 5/16 | 2892              | 2417   | 25000          |
|                             | SCE66               | 0.0380         | 3/8                 | 9/16  | 3/8  | 3900              | 3950   | 25000          |
|                             | SCE68               | 0.0330         | 3/8                 | 9/16  | 1/2  | 5200              | 5700   | 25000          |
|                             | SCE69               | 0.0035         | 3/8                 | 9/16  | 9/16 | 6200              | 7150   | 25000          |
|                             | SCE610              | 0.0070         | 3/8                 | 9/16  | 5/8  | 7250              | 8970   | 25000          |
| 7/16                        | SCE78OH             | 0.0070         | 7/16                | 5/8   | 1/2  | 6300              | 7600   | 21900          |
|                             | SCE710              | 0.0100         | 7/16                | 5/8   | 5/8  | 8000              | 10500  | 21900          |
| 1/2                         | SCE85OH             | 0.0040         | 1/2                 | 11/16 | 5/16 | 3450              | 3650   | 19000          |
|                             | SCE86               | 0.0070         | 1/2                 | 11/16 | 3/8  | 4590              | 5300   | 19000          |
|                             | SCE87OH             | 0.0060         | 1/2                 | 11/16 | 7/16 | 5918              | 7387   | 19000          |
|                             | SCE88               | 0.0072         | 1/2                 | 11/16 | 1/2  | 6897              | 9033   | 19000          |
|                             | SCE810              | 0.0089         | 1/2                 | 11/16 | 5/8  | 8811              | 12237  | 19000          |
|                             | SCE812              | 0.0100         | 1/2                 | 11/16 | 3/4  | 9850              | 14270  | 19000          |
| 9/16                        | SCE95               | 0.0049         | 9/16                | 3/4   | 5/16 | 4049              | 4717   | 19000          |
|                             | SCE96               | 0.0059         | 9/16                | 3/4   | 3/8  | 5162              | 6408   | 19000          |
|                             | SCE97               | 0.0069         | 9/16                | 3/4   | 7/16 | 5400              | 6700   | 19000          |
|                             | SCE98               | 0.0079         | 9/16                | 3/4   | 1/2  | 7698              | 10769  | 19000          |
|                             | SCE910              | 0.0990         | 9/16                | 3/4   | 5/8  | 9434              | 14017  | 19000          |
|                             | SCE912              | 0.0117         | 9/16                | 3/4   | 3/4  | 10724             | 16465  | 19000          |
| 5/8                         | SCE105              | 0.0750         | 5/8                 | 13/16 | 5/16 | 4200              | 5050   | 16000          |
|                             | SCE107              | 0.0650         | 5/8                 | 13/16 | 7/16 | 6500              | 9200   | 16000          |
|                             | SCE108              | 0.0087         | 5/8                 | 13/16 | 1/2  | 8743              | 12015  | 16000          |
|                             | SCE1010             | 0.0108         | 5/8                 | 13/16 | 5/8  | 10368             | 16242  | 16000          |
|                             | SCE1012             | 0.0120         | 5/8                 | 13/16 | 3/4  | 12015             | 19802  | 16000          |
|                             | SCE1016             | 0.0173         | 5/8                 | 7/8   | 1    | 19000             | 27300  | 16000          |
| 11/16                       | SCE116              | 0.0070         | 11/16               | 7/8   | 3/8  | 5740              | 7846   | 15000          |
|                             | SCE118              | 0.0095         | 11/16               | 7/8   | 1/2  | 8450              | 13020  | 15000          |
|                             | SCE1110             | 0.0118         | 11/16               | 7/8   | 5/8  | 10700             | 17720  | 15000          |
|                             | SCE1112             | 0.0140         | 11/16               | 7/8   | 3/4  | 12000             | 20300  | 15000          |



# SCE SERIES

## CAGED IMPERIAL DRAWN CUP NEEDLE ROLLER BEARINGS

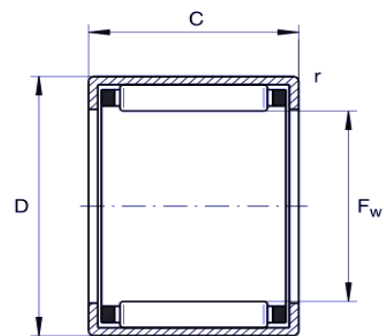


| Shaft<br>Diameter<br>Inches | Bearing Part Number | Mass<br>Approx | Boundary Dimensions |        |       | Basic Load Rating |        | Limiting Speed |
|-----------------------------|---------------------|----------------|---------------------|--------|-------|-------------------|--------|----------------|
|                             |                     |                | Fw                  | D      | C     | Dynamic           | Static | Oil            |
|                             |                     | g              | Inches              |        |       | N                 |        | rpm            |
| 3/4                         | SCE126              | 0.0100         | 3/4                 | 1      | 3/8   | 6400              | 6950   | 13000          |
|                             | SCE128              | 0.0135         | 3/4                 | 1      | 1/2   | 9900              | 12150  | 13000          |
|                             | SCE1210             | 0.0170         | 3/4                 | 1      | 5/8   | 12682             | 17577  | 13000          |
|                             | SCE1212             | 0.0205         | 3/4                 | 1      | 3/4   | 15352             | 22250  | 13000          |
| 13/16                       | SCE1314OH           | 0.0250         | 13/16               | 1.1/16 | 7/8   | 14500             | 23500  | 12000          |
| 7/8                         | SCE146              | 0.0110         | 7/8                 | 1.1/8  | 3/8   | 7000              | 8200   | 11000          |
|                             | SCE148              | 0.0115         | 7/8                 | 1.1/8  | 1/2   | 10500             | 14000  | 11000          |
|                             | SCE1412             | 0.0195         | 7/8                 | 1.1/8  | 3/4   | 16910             | 27145  | 11000          |
|                             | SCE1416             | 0.0195         | 7/8                 | 1.1/8  | 1     | 25000             | 37000  | 11000          |
|                             | SCE1416OH           | 0.0195         | 7/8                 | 1.1/8  | 1     | 25000             | 37000  | 11000          |
| 1                           | SCE168              | 0.0135         | 1                   | 1.1/4  | 1/2   | 12682             | 19135  | 10000          |
|                             | SCE1612             | 0.0335         | 1                   | 1.1/4  | 3/4   | 18022             | 30260  | 10000          |
|                             | SCE1616             | 0.0195         | 1                   | 1.1/4  | 1     | 24920             | 45390  | 10000          |
|                             | SCE1616-2RS         | 0.0195         | 1                   | 1.1/4  | 1     | 24920             | 45390  | 8000 (Grease)  |
| 1.1/8                       | SCE188OH            | 0.0210         | 1.1/8               | 1.3/8  | 1/2   | 12905             | 20247  | 9000           |
|                             | SCE1812             | 0.0150         | 1.1/8               | 1.3/8  | 3/4   | 18912             | 33375  | 9000           |
|                             | SCE1812OH           | 0.0320         | 1.1/8               | 1.3/8  | 3/4   | 18912             | 33375  | 9000           |
|                             | SCE1816OH           | 0.0400         | 1.1/8               | 1.3/8  | 1     | 24920             | 45390  | 9000           |
| 1.1/4                       | SCE208OH            | 0.0220         | 1.1/4               | 1.1/2  | 1/2   | 12800             | 21400  | 7500           |
|                             | SCE2010OH           | 0.0300         | 1.1/4               | 1.1/2  | 5/8   | 19850             | 31890  | 8000           |
|                             | SCE2012OH           | 0.0370         | 1.1/4               | 1.1/2  | 3/4   | 21137             | 39605  | 8000           |
|                             | SCE2016OH           | 0.0450         | 1.1/4               | 1.1/2  | 1     | 27145             | 54735  | 7500           |
|                             | SCE2020OH           | 0.0560         | 1.1/4               | 1.1/2  | 1.1/4 | 43000             | 71800  | 7500           |
| 1.5/16                      | SCE2110OH           | 0.0370         | 1.5/16              | 1.5/8  | 5/8   | 20600             | 32700  | 7500           |
| 1.3/8                       | SCE228OH            | 0.0280         | 1.3/8               | 1.5/8  | 1/2   | 13500             | 22300  | 7500           |
|                             | SCE2212OH           | 0.0390         | 1.3/8               | 1.5/8  | 3/4   | 21360             | 42720  | 7500           |
|                             | SCE2216OH           | 0.0580         | 1.3/8               | 1.5/8  | 1     | 27590             | 59185  | 7500           |
|                             | SCE2220OH           | 0.0810         | 1.3/8               | 1.5/8  | 1.1/4 | 32500             | 74000  | 7500           |
| 1.1/2                       | SCE248OH            | 0.0385         | 1.1/2               | 1.7/8  | 1/2   | 12700             | 17500  | 7500           |
|                             | SCE2410OH           | 0.0485         | 1.1/2               | 1.7/8  | 5/8   | 17700             | 27000  | 7500           |
|                             | SCE2412OH           | 0.0585         | 1.1/2               | 1.7/8  | 3/4   | 22000             | 35900  | 7500           |
|                             | SCE2414OH           | 0.0690         | 1.1/2               | 1.7/8  | 7/8   | 26500             | 45300  | 7500           |
|                             | SCE2416OH           | 0.0830         | 1.1/2               | 1.7/8  | 1     | 38715             | 66305  | 7500           |
|                             | SCE2420             | 0.0975         | 1.1/2               | 1.7/8  | 1.1/4 | 49000             | 89300  | 6500           |



# SCE SERIES

## CAGED IMPERIAL DRAWN CUP NEEDLE ROLLER BEARINGS



| Shaft<br>Diameter<br>Inches                        | Bearing Part Number | Mass<br>Approx | Boundary Dimensions |       |       | Basic Load Rating |        | Limiting Speed |
|----------------------------------------------------|---------------------|----------------|---------------------|-------|-------|-------------------|--------|----------------|
|                                                    |                     |                | Fw                  | D     | C     | Dynamic           | Static | Oil            |
|                                                    |                     | g              | Inches              |       |       | N                 |        | rpm            |
| 1.5/8                                              | SCE2610OH           | 0.0550         | 1.5/8               | 2     | 5/8   | 25500             | 40400  | 6000           |
|                                                    | SCE2620OH           | 0.1100         | 1.5/8               | 2     | 1.1/4 | 49500             | 94800  | 6000           |
| 1.3/4                                              | SCE2816OH           | 0.1150         | 1.3/4               | 2.1/8 | 1     | 41385             | 75650  | 6000           |
| 2                                                  | SCE328OH            | 0.0500         | 1.3/4               | 2.1/8 | 1/2   | 15200             | 24400  | 5000           |
|                                                    | SCE3216OH           | 0.1020         | 1.3/4               | 2.1/8 | 1     | 41800             | 80500  | 5000           |
| Suffix: OH = Relubrication oil hole on the outside |                     |                |                     |       |       |                   |        |                |