



# SCB-HS series

### Introduction

The SCB-HS series shares similar dimensions with the SCB-RK series. The SCB-HS ring configuration is a rectangular cross section.  
OD size range : 20"-47"  
Provides greater stiffness and load capacity over the SCB-RK

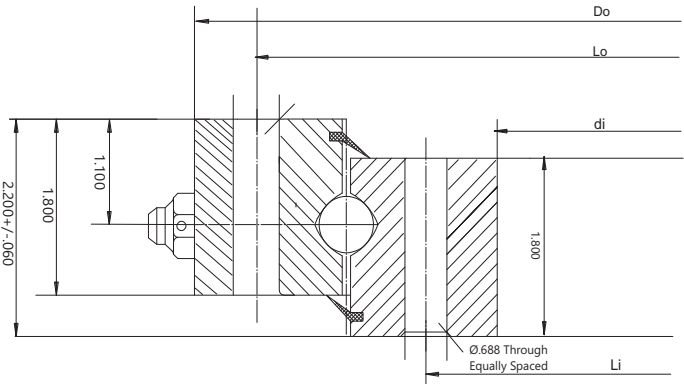
### Construction

- Deep groove gothic arch
- 4 point contact
- Sealed
- Ring Configuration:
  - Non geared
  - External gear
  - Internal gear
- Geared rings have tapped holes
- Non geared rings have thru holes
- Gear detail:
  - Involute Stub
  - 20 deg
  - AGMA 8 Class (Contact SoCare® if you need higher precision ,AGMA8-AGMA11 even AGMA14 could be available for SoCare® which is subject to the bearing size.)
- .005"-.025" allowable backlash
- Grease fittings for lubrication

### Applications

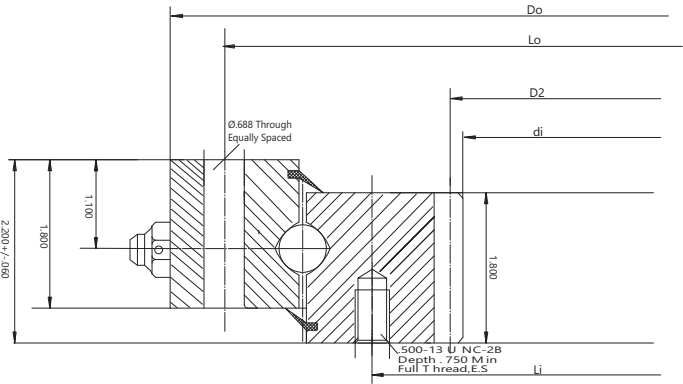
- Rotary table
- Positioner
- Material handling
- Conveyor
- Rotators
- Stretch wrap equipment
- Crane

## No Gear



| SOCARE® No.                                                                                                                         | KAYDON® No. | OUTLINE DIMENSIONS(IN)<br>AND WEIGHT(LBS) |        |                   | OUTER RING |    | INNER RING |    | Gear Data<br>INV.STUB,α=20° |            |    |             | Moment<br>Rating<br>Crm<br>(ft-lbs) |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------|--------|-------------------|------------|----|------------|----|-----------------------------|------------|----|-------------|-------------------------------------|
|                                                                                                                                     |             | Do                                        | di     | G(LBS)<br>Approx. | Lo         | no | Li         | ni | D2<br>(in)                  | Pd<br>(in) | Z2 | Fz<br>(lbs) |                                     |
| SCB-HS518                                                                                                                           | HS6-16P1Z   | 20.400                                    | 12.000 | 103               | 19.000     | 8  | 13.500     | 12 |                             |            |    |             | 50,500                              |
| SCB-HS648                                                                                                                           | HS6-21P1Z   | 25.500                                    | 17.000 | 137               | 24.000     | 12 | 18.500     | 15 |                             |            |    |             | 72,700                              |
| SCB-HS749                                                                                                                           | HS6-25P1Z   | 29.500                                    | 21.000 | 162               | 28.000     | 15 | 22.500     | 18 |                             |            |    |             | 91,800                              |
| SCB-HS848                                                                                                                           | HS6-29P1Z   | 33.400                                    | 25.000 | 186               | 32.000     | 15 | 26.500     | 18 |                             |            |    |             | 111,900                             |
| SCB-HS950                                                                                                                           | HS6-33P1Z   | 37.400                                    | 28.830 | 216               | 35.750     | 18 | 30.500     | 20 |                             |            |    |             | 128,000                             |
| SCB-HS1048                                                                                                                          | HS6-37P1Z   | 41.250                                    | 32.830 | 233               | 39.750     | 18 | 34.380     | 20 |                             |            |    |             | 130,900                             |
| SCB-HS1198                                                                                                                          | HS6-43P1Z   | 47.180                                    | 38.750 | 269               | 45.620     | 20 | 40.250     | 24 |                             |            |    |             | 139,900                             |
| Contact SoCare® about custom features, configurations and construction.<br>(mounting holes, materials, coating, internal clearance) |             |                                           |        |                   |            |    |            |    |                             |            |    |             |                                     |

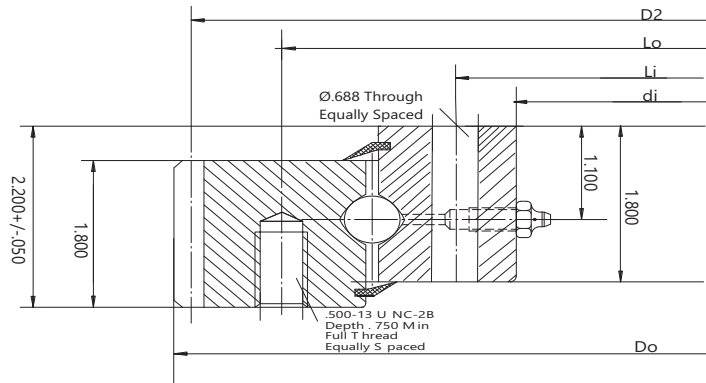
## Internal Gear



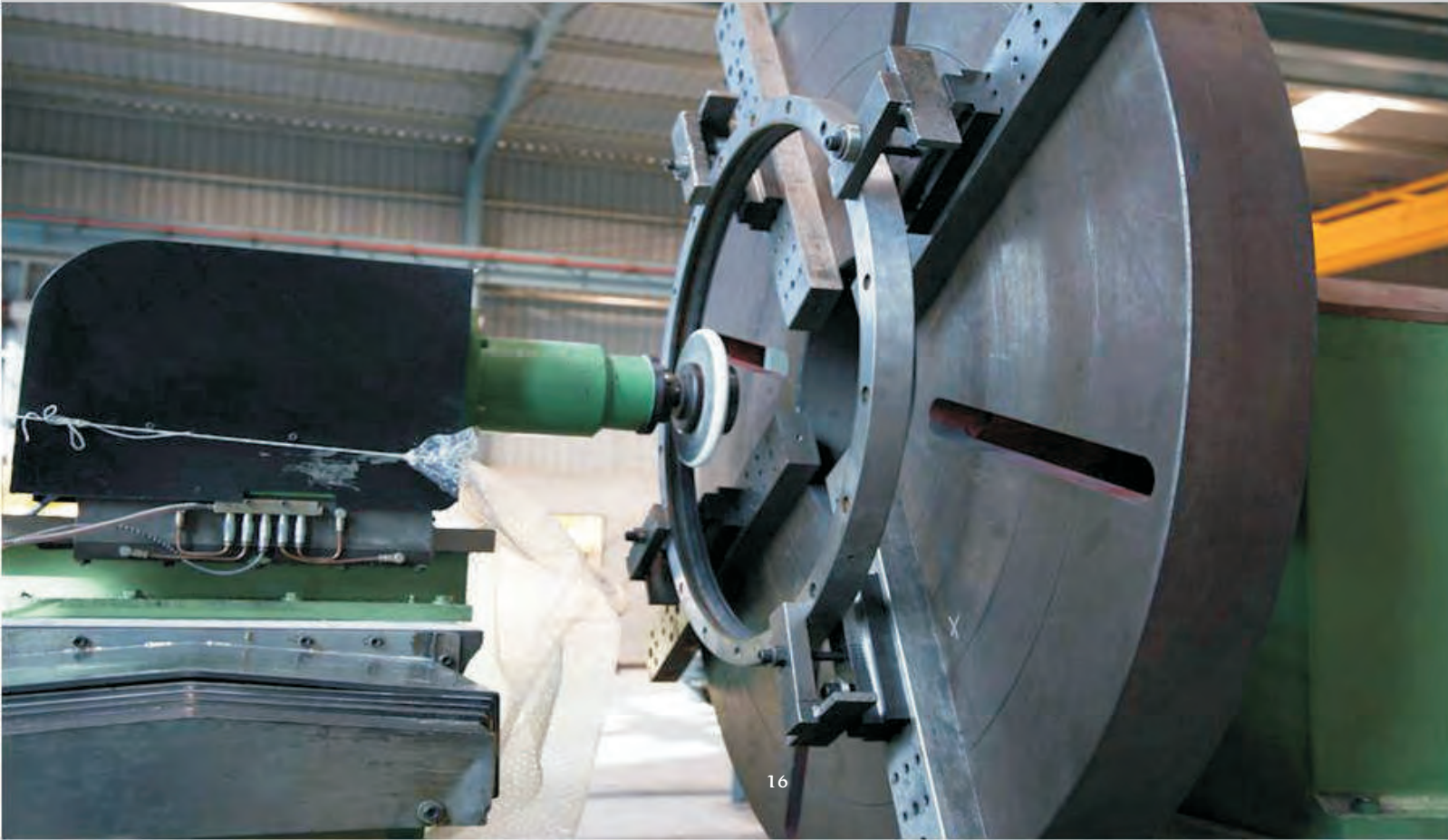
| SOCARE® No.                                                                                                                         | KAYDON® No. | OUTLINE DIMENSIONS(IN)<br>AND WEIGHT(LBS) |        |                   | OUTER RING |    | INNER RING |    | Gear Data<br>INV.STUB,α=20° |            |     |             | Moment<br>Rating<br>Crm<br>(ft-lbs) |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------|--------|-------------------|------------|----|------------|----|-----------------------------|------------|-----|-------------|-------------------------------------|
|                                                                                                                                     |             | Do                                        | di     | G(LBS)<br>Approx. | Lo         | no | Li         | ni | D2<br>(in)                  | Pd<br>(in) | Z2  | Fz<br>(lbs) |                                     |
| SCB-HSN518                                                                                                                          | HS6-16N1Z   | 20.400                                    | 12.850 | 92                | 19.000     | 8  | 14.880     | 16 | 13.250                      | 4          | 53  | 6,084       | 50,500                              |
| SCB-HSN648                                                                                                                          | HS6-21N1Z   | 25.500                                    | 17.600 | 117               | 24.000     | 12 | 19.630     | 20 | 18.000                      | 4          | 72  | 5,842       | 72,700                              |
| SCB-HSN749                                                                                                                          | HS6-25N1Z   | 29.500                                    | 21.600 | 148               | 28.000     | 15 | 23.630     | 24 | 22.000                      | 4          | 88  | 5,719       | 91,800                              |
| SCB-HSN848                                                                                                                          | HS6-29N1Z   | 33.400                                    | 25.600 | 171               | 32.000     | 15 | 27.630     | 28 | 26.000                      | 4          | 104 | 5,634       | 111,900                             |
| SCB-HSN950                                                                                                                          | HS6-33N1Z   | 37.400                                    | 29.130 | 205               | 35.750     | 18 | 31.500     | 30 | 29.667                      | 3          | 89  | 7,617       | 128,000                             |
| SCB-HSN1048                                                                                                                         | HS6-37N1Z   | 41.250                                    | 33.130 | 226               | 39.750     | 18 | 35.500     | 32 | 33.667                      | 3          | 101 | 7,531       | 130,900                             |
| SCB-HSN1198                                                                                                                         | HS6-43N1Z   | 47.180                                    | 39.130 | 253               | 45.620     | 20 | 41.500     | 36 | 39.667                      | 3          | 109 | 7,343       | 139,900                             |
| Contact SoCare® about custom features, configurations and construction.<br>(mounting holes, materials, coating, internal clearance) |             |                                           |        |                   |            |    |            |    |                             |            |     |             |                                     |



External Gear



| SOCARE® No.                                                                                                                         | KAYDON® No. | OUTLINE DIMENSIONS(IN)<br>AND WEIGHT(LBS) |        |                   | OUTER RING |    | INNER RING |    | Gear Data<br>INV.STUB,α=20° |            |     |             | Moment<br>Rating<br>Crm<br>(ft-lbs) |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------|--------|-------------------|------------|----|------------|----|-----------------------------|------------|-----|-------------|-------------------------------------|
|                                                                                                                                     |             | Do                                        | di     | G(LBS)<br>Approx. |            |    |            |    | D2<br>(in)                  | Pd<br>(in) | Z2  | Fz<br>(lbs) |                                     |
| SCB-HSE505                                                                                                                          | HS6-16E1Z   | 19.900                                    | 12.000 | 85                | 18.000     | 14 | 13.500     | 12 | 19.500                      | 4          | 78  | 4,981       | 50,500                              |
| SCB-HSE638                                                                                                                          | HS6-21E1Z   | 25.150                                    | 17.000 | 108               | 23.250     | 18 | 18.500     | 15 | 24.750                      | 4          | 99  | 5,076       | 72,700                              |
| SCB-HSE740                                                                                                                          | HS6-25E1Z   | 29.150                                    | 21.000 | 137               | 27.250     | 20 | 22.500     | 18 | 28.750                      | 4          | 115 | 5,127       | 91,800                              |
| SCB-HSE835                                                                                                                          | HS6-29E1Z   | 32.900                                    | 25.000 | 158               | 31.000     | 24 | 26.500     | 18 | 32.500                      | 4          | 130 | 5,164       | 111,900                             |
| SCB-HSE945                                                                                                                          | HS6-33E1Z   | 37.200                                    | 28.830 | 188               | 35.000     | 28 | 30.500     | 20 | 36.667                      | 3          | 110 | 6,817       | 128,000                             |
| SCB-HSE1046                                                                                                                         | HS6-37E1Z   | 41.200                                    | 32.830 | 207               | 38.880     | 28 | 34.380     | 20 | 40.667                      | 3          | 122 | 6,860       | 130,900                             |
| SCB-HSE1190                                                                                                                         | HS6-43E1Z   | 46.870                                    | 38.750 | 237               | 44.630     | 32 | 40.250     | 24 | 46.333                      | 3          | 139 | 6,910       | 139,900                             |
| Contact SoCare® about custom features, configurations and construction.<br>(mounting holes, materials, coating, internal clearance) |             |                                           |        |                   |            |    |            |    |                             |            |     |             |                                     |



SCB-HS Load Ratings\*\*

\*\*Ratings based on bearing capability, consult SoCare® engineering to ensure design criteria.

