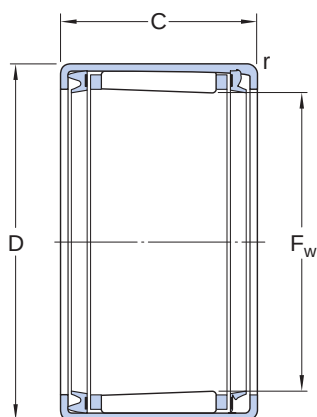


## HK 3520.2RS

Drawn cup needle roller bearings are typically used in applications where the housing bore cannot be used as a raceway for a needle roller and cage assembly, but where a very compact and economical bearing arrangement is required. Owing to their large number of rollers, the bearings have a high load carrying capacity and stiffness. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out. Sealed bearings are delivered with an initial grease fill.



- High radial load carrying capacity
- High stiffness
- Very low cross-sectional height
- Sealed for increased reliability



### Dimensions

|       |             |                                          |
|-------|-------------|------------------------------------------|
| $F_w$ | 35 mm       | Diameter under rollers                   |
| $D$   | 42 mm       | Outside diameter                         |
| $C$   | 20 mm       | Width                                    |
| $r$   | min. 0.8 mm | Chamfer dimension drawn cup (outer ring) |

### Calculation data

|                           |       |             |
|---------------------------|-------|-------------|
| Basic dynamic load rating | $C$   | 17.9 kN     |
| Basic static load rating  | $C_0$ | 34 kN       |
| Fatigue load limit        | $P_u$ | 4 kN        |
| Limiting speed            |       | 5 000 r/min |

### Associated products

|                      |               |
|----------------------|---------------|
| Inner ring IR series | IR 30x35x20.5 |
| Inner ring LR series | LR 30x35x20.5 |

## Tolerances and clearances

### GENERAL BEARING SPECIFICATIONS

- Tolerances: table

### DESIGN CONSIDERATIONS

- Shaft and housing tolerances: table

AGA BEARINGS