



## SKF STO 35

Support roller (yoke-type track roller), without flange rings

Support rollers (yoke-type track rollers) are designed to run on all types of tracks and to be used in cam drives, conveyor systems, etc. They are based on a single row needle roller bearing with an inner ring. They have a thick-walled outer ring with a crowned running surface and are supplied ready-to-mount. The inner ring contains a lubrication hole to facilitate relubrication. The outer ring, the inner ring and the needle roller and cage assembly can be mounted separately.

### Technical specifications

| Dimensions                   |         |
|------------------------------|---------|
| Outside diameter             | 72 mm   |
| Bore diameter                | 35 mm   |
| Width outer ring             | 19.8 mm |
| Width inner ring             | 20 mm   |
| Raceway diameter outer ring  | 50 mm   |
| Raceway diameter inner ring  | 42 mm   |
| Chamfer dimension outer ring | 0.6 mm  |
| Chamfer dimension inner ring | 0.6 mm  |
| Functional outside diameter  | 72 mm   |
| Width, total                 | 20 mm   |
| Width, outer ring            | 19.8 mm |

| Calculation data            |            |
|-----------------------------|------------|
| Basic dynamic load rating   | 24.6 kN    |
| Basic static load rating    | 39 kN      |
| Fatigue load limit          | 4.8 kN     |
| Maximum dynamic radial load | 36 kN      |
| Maximum static radial load  | 51 kN      |
| Limiting speed              | 2200 r/min |

| Performance               |            |
|---------------------------|------------|
| Basic dynamic load rating | 24.6 kN    |
| Basic static load rating  | 39 kN      |
| Limiting speed            | 2200 r/min |

| Properties                    |                       |
|-------------------------------|-----------------------|
| Bearing part                  | Complete track roller |
| Rolling elements              | Needle rollers        |
| Number of rows                | 1                     |
| Outer ring profile            | Crowned               |
| Axial guidance of outer ring  | No                    |
| Number of flanges, outer ring | 0                     |
| Cage                          | With                  |
| Radial internal clearance     | CN                    |
| Tolerance class               | Other                 |
| Material, bearing             | Bearing steel         |
| Coating                       | Without               |
| Sealing                       | Without               |
| Lubricant                     | Grease                |
| Relubrication feature         | With                  |

| Logistics          |             |
|--------------------|-------------|
| Product net weight | 0.441 kg    |
| eClass code        | 23-05-09-03 |
| UNSPSC code        | 31171512    |

**SKF drawings**

