# 22326 CCKJA/W33VA405Spherical roller bearing for vibratory applications, with tapered bore and relubrication features

## Spherical roller bearing for vibratory applications, with tapered bore and relubrication features

Spherical roller bearings can accommodate heavy loads in both directions. They are self-aligning and accommodate misalignment and shaft deflections, with virtually no increase in friction or temperature. This bearing design offers excellent performance in many types of vibrating machinery. The design includes features to facilitate relubrication. The bearings can be used in a modular system, including housings, sleeves and nuts.

- Accommodate misalignment
- High load carrying capacity
- Accommodate very high vibration levels
- Low friction and long service life
- Increased wear resistance

## Overview

### Dimensions

| | |
|---|---|
| Bore diameter | 130 mm |
| Outside diameter | 280 mm |
| Width | 93 mm |

### Performance

| | |
|---|---|
| Basic dynamic load rating | 1 176 kN |
| Basic static load rating | 1 320 kN |
| Reference speed | 1 800 r/min |
| Limiting speed | 2 400 r/min |
| SKF performance class | SKF Explorer |

### Properties

| | |
|---|---|
| Number of rows | 2 |
| Locating feature, bearing outer ring | Without |
| Bore type | Tapered 1:12 |
| Cage | Surface-hardened sheet metal |
| Radial internal clearance | C4 |
| Tolerance class | Normal |
| Tolerance class | Normal, bore to P5 and outside |

| | |
|---|---|
| for dimensions | diameter P6 |
| Tolerance class for run-out | Normal |
| Sealing | Without |
| Lubricant | None |
| Relubrication feature | With |
| Candidate for remanufacturing | Yes |

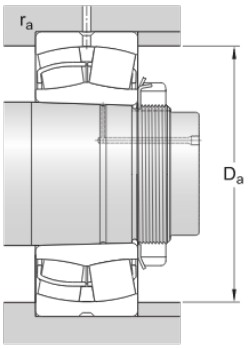
# Technical Specification

| | |
|---|---|
| SKF performance class | SKF Explorer |
| Bore type | Tapered 1:12 |

NOT FOUND

## Dimensions

| | | |
|---|---|---|
| d | 130 mm | Bore diameter |
| D | 280 mm | Outside diameter |
| B | 93 mm | Width |
| $d_2$ | ≈ 164 mm | Shoulder diameter of inner ring |
| $D_1$ | ≈ 233 mm | Shoulder/recess diameter of outer ring |
| b | 16.7 mm | Width of lubrication groove |
| K | 9 mm | Diameter of lubrication hole |
| $r_{1,2}$ | min. 4 mm | Chamfer dimension |




## Abutment dimensions

| | | |
|---|---|---|
| $D_a$ | max. 263 mm | Diameter of housing abutment |
| $r_a$ | max. 3 mm | Radius of fillet |

## Calculation data

| | | |
|---|---|---|
| Basic dynamic load rating | C | 1 176 kN |
| Basic static load rating | $C_0$ | 1 320 kN |

| | | |
|---|---|---|
| Fatigue load limit | $P_u$ | 114 kN |
| Reference speed | | 1 800 r/min |
| Limiting speed | | 2 400 r/min |
| Limiting value | e | 0.35 |
| Calculation factor | $Y_1$ | 1.9 |
| Calculation factor | $Y_2$ | 2.9 |
| Calculation factor | $Y_0$ | 1.8 |
| Permissible rotational acceleration for oil lubrication | | 853 $m/s^2$ |
| Permissible linear acceleration for oil lubrication | | 196 $m/s^2$ |

## Mass

| | |
|---|---|
| Mass | 28.5 kg |

## Tolerance class

| | |
|---|---|
| Dimensional tolerances | Normal, bore to P5 and outside diameter P6 |
| Radial run-out | Normal |

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