Hans Saurer Kugellager AG
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# data sheet

## general data/description



**article** STO 12 ZZ LX3 **Art-No.** 44627 **brand** SKA **weight/kg** 0.075

**remark** Tragzahlen gerechnet nach Normen für Wälzlager. Drehzahlen für F < 0.05 C0.

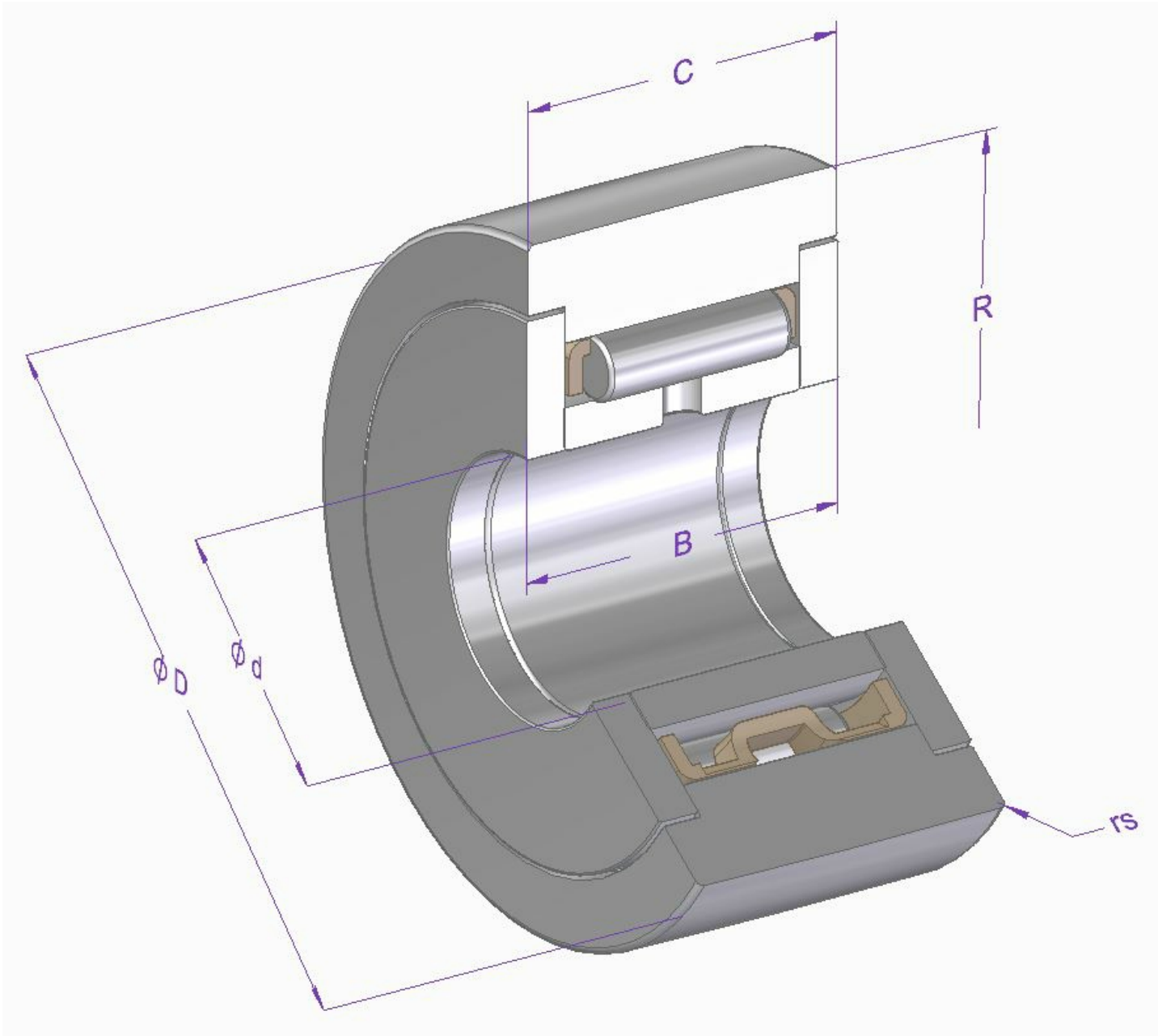
**description**

| | |
|---|---|
| STO | Design |
| 12 | Size |
| ZZ | Shields on both sides, not touching |

**greasing**

| | |
|---|---|
| LX3 | SHELL GADUS S3 V220C 2 |

## dimensions and tolerances




| dimension | Description | [mm] | tolerance [µm] | DIN/ISO |
|---|---|---|---|---|
| d | nominal inner diameter | 12 | 0 / -8 | 620-2 |
| D | nominal outer diameter | 32 | 0 / -50 | WERKSNORM |
| B | inner ring width | 16 | 0 / -180 | |
| C | outer ring width | 15.8 | 0 / -120 | 620-2 |
| rs min. | minimal chamfer dimension | 0.3 | | |
| R | radius outer ring | 500 | | |
| Crw [N] | Effective dynamic load rating | 9450 | | |
| C0rw [N] | Effective static load rating | 9220 | | |

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| dimension | Description | [mm] | tolerance [µm] | DIN/ISO |
|---|---|---|---|---|
| Curw [N] | Effective fatigue limit load | 1020 | | |

## calculation and operating data

| | | | | | | |
|---|---|---|---|---|---|---|
| **load ratings** | **dynamic C [N]** | **fatique load limit load Cu [N]** | | **DIN/ISO** | **static Co [N]** | **DIN/ISO** |
| | 10700 | 1350 | | 281 | 11300 | 76 |
| **speed of rotation limit** | **reference n [1/min]** | **grease n [1/min]** | **oil n [1/min]** | | | |
| | | 4500 | | | | |
| **operating temperature** | **max. [°C]** | **min. [°C]** | | | | |
| | 120 | -20 | | | | |
| **bearing clearance** | **radial min. [µm]** | **max. [µm]** | | | | |
| | 20 | 45 | | | | |

## material specification

| description | material | DIN/ISO | hardness |
|---|---|---|---|
| Inner ring | 100Cr6 | 683-17 | 58-65 |
| Outer ring | 100Cr6 | 683-17 | 58-65 |
| Needle rollers | 100Cr6 | 683-17 | 58-65 |
| Cage | Sheet steel | | |
| Shields | Sheet steel | | |

All information in this document was provided and checked carefully. Nevertheless, we can not assume any liability for incomplete or faulty information.