Hans Saurer Kugellager AG
Niederfeld 38
CH-9320 Stachen

data sheet

general data/description

article KR 40 PP OP SK LX3 **Art-No.** 52983 **brand** SKA **weight/kg** 0.247

remark Load ratings calculated according norms for rolling bearings. Rotational speed for F < 0.05 C0rw. Load ratings and rotational speed also depending on mating track.

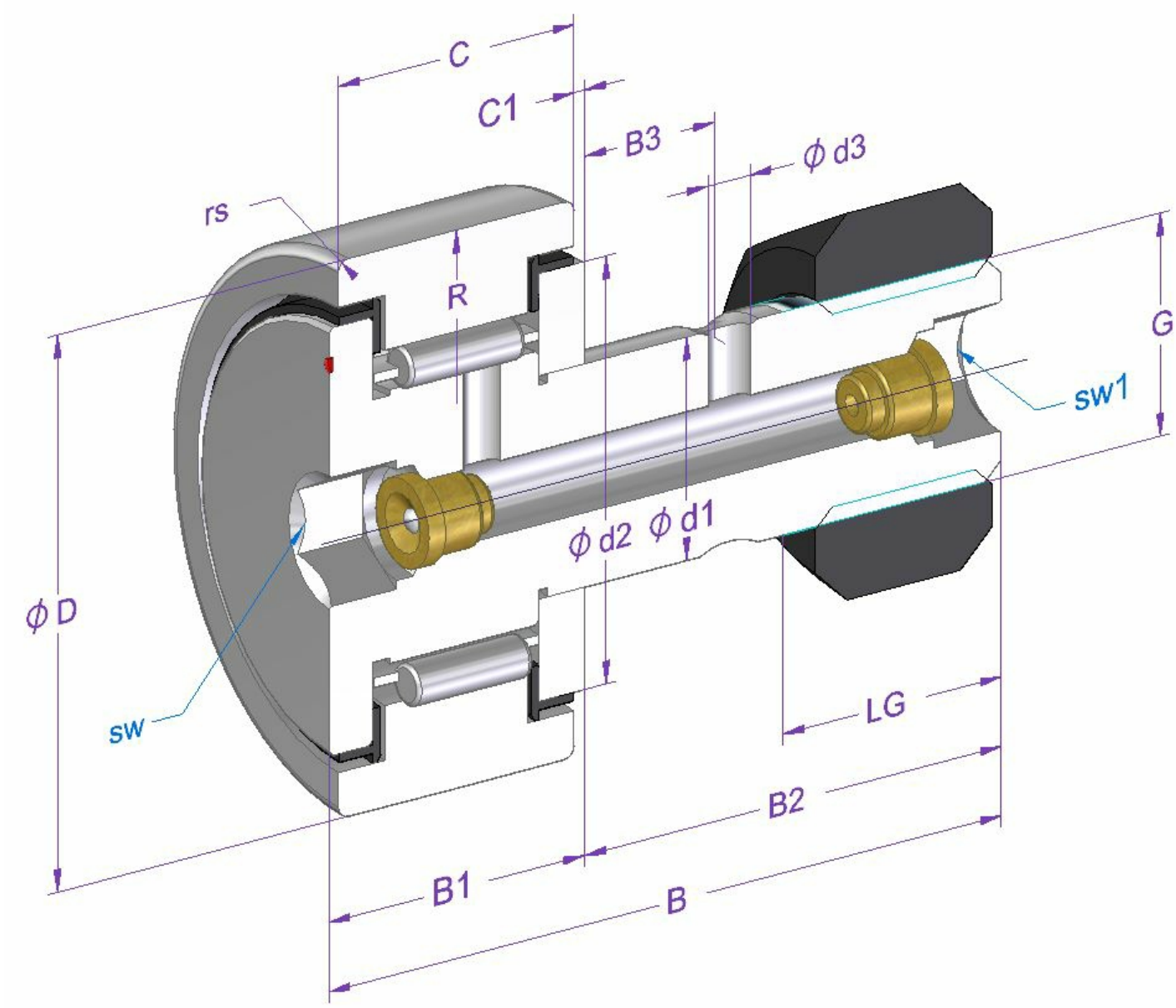
description

KR	Design
40	Size
PP	Seals on both sides
OP	Optimized profile
SK	Hexagon socket

greasing

LX3	SHELL GADUS S3 V220C 2

dimensions and tolerances



dimension	Description	[mm]	tolerance [µm]	DIN/ISO
d1	shaft diameter	18	0 / -18	ISO 7063
d2	inner shoulder diameter	31.5		
D	nominal outer diameter	40	0 / -50	ISO 7063
C	outer ring width	20	0 / -120	620-2
C1	distance	0.8		ISO 7063
B	length	58	-300 / 600	WERKSNORM
B1 max.	width	21.6		ISO 7063
B2	shaft lenght	36.5		ISO 7063

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dimension	Description	[mm]	tolerance [µm]	DIN/ISO
B3	distance lubrication hole	8		ISO 7063
rs min.	minimal chamfer dimension	1		ISO 7063
G	thread	M18x1.5		ISO 7063
LG	thread length	19		ISO 7063
sw/sw1	wrench size	8		
R	radius outer ring	OP		
d3	diameter lubrication hole	3		
Crw [N]	Effective dynamic load rating	11600		
C0rw [N]	Effective static load rating	14300		
Curw [N]	Effective fatigue limit load	1730		

calculation and operating data

load ratings	dynamic C [N]	fatique load limit load Cu [N]	DIN/ISO	static Co [N]	DIN/ISO
	13700	2560	281	19200	76

speed of rotation limit	reference n [1/min]	grease n [1/min]	oil n [1/min]
		2900	

operating temperature	max. [°C]	min. [°C]
	120	-20

bearing clearance	radial min. [µm]	max. [µm]
	10	35

material specification

description	material	DIN/ISO	hardness
Outer ring	100Cr6	683-17	58-65
Roller stud	16CrMo4		
Needle rollers	100Cr6	683-17	58-65
Thrust washer	100Cr6	683-17	58-65
Seals	PA66		
Cage	Sheet steel		

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