



Axial angular contact ball bearings ZKLF30100-2RS-XL (Series ZKLF..-2RS)

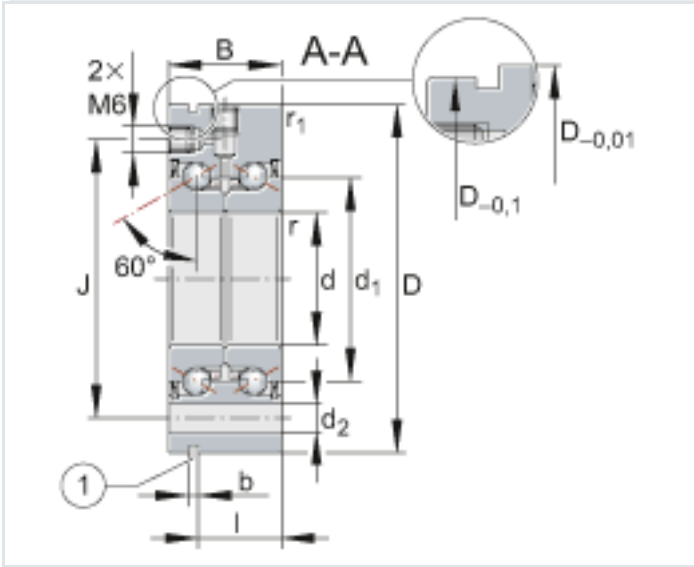
double direction, for screw mounting, lip seals on both sides

The datasheet is only an overview of dimensions and basic load ratings of the selected product. Please always observe all the guidelines in these overview pages. Further information is given on many products under the menu item "Description". You can also order comprehensive information via the Catalogue ordering system (https://www.schaeffler.de/content.schaeffler.de/en/news_media/index.jsp) or by telephone on +49 (91 32) 82 - 28 97.

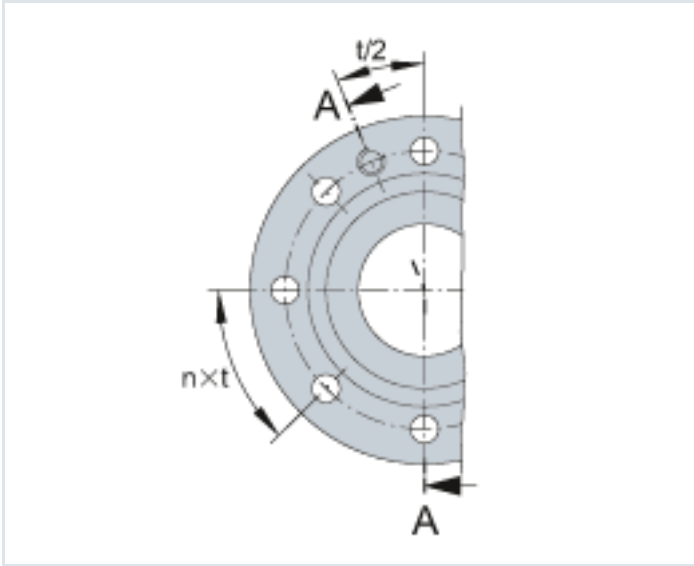
d	30 mm	Tolerance: 0/-0,005
D	100 mm	Tolerance: 0/-0,01
B	38 mm	Tolerance: 0/-0,25
	M6	Threaded connector for lubrication
	60 °	Contact angle
	M8	Fixing screws to DIN EN ISO 4762 10.9 Screws not included in scope of delivery. Tightening torque according to manufacturer's data.
b	3 mm	
d1	51 mm	
d2	8,8 mm	
Da max	64 mm	

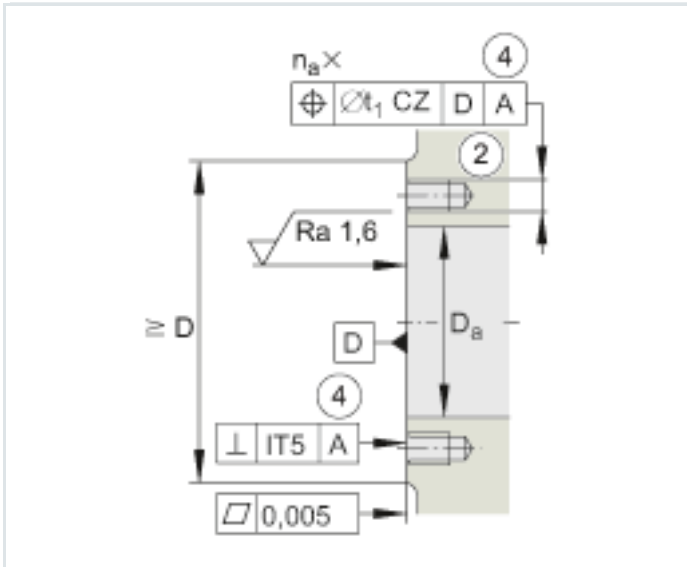
da min	47 mm	
l	30 mm	
J	80 mm	
na x ta	8 x 45°	Fixing screws to DIN EN ISO 4762 10.9 Screws not included in scope of delivery. Tightening torque according to manufacturer's data. Number of holes in adjacent construction corresponds to n a.
n x t	8 x 45°	Pitch
r1 min	0,6 mm	
rmin	0,3 mm	
t1	0,2 mm	
Heavy series		
m	1,63 kg	≈ Mass
Ca	65000 N	Basic dynamic load rating, axial
C0a	108000 N	Basic static load rating, axial
Cua	6500 N	Fatigue limit load, axial
nG Fett	4500 1/min	Limiting speed for grease lubrication
nø	2100 1/min	Thermally safe operating speed
MRL	0,8 Nm	Bearing frictional torque

CaL	950 N/μm	Axial rigidity
CkL	400 Nm/mrad	Tilting rigidity
Mm	1,91 kg * cm ²	Mass moment of inertia for rotating inner ring
	2,5 μm	Axial runout The axial runout data for screw drive bearing arrangements are based on the rotating inner ring.
	ZMA30/52	Recommended INA precision locknuts with radial clamping The recommended INA precision locknuts are not included in the scope of delivery and must be ordered separately.
	AM30	Recommended INA precision locknuts with axial clamping The recommended INA precision locknuts are not included in the scope of delivery and must be ordered separately.
MA	65 Nm	Tightening torque Only valid in conjunction with INA precision locknuts. Observe the guidelines on locating/locating bearing arrangements.
	19509 N	Requisite locknut force, axial The requisite axial locknut force must be observed when using other locknuts.

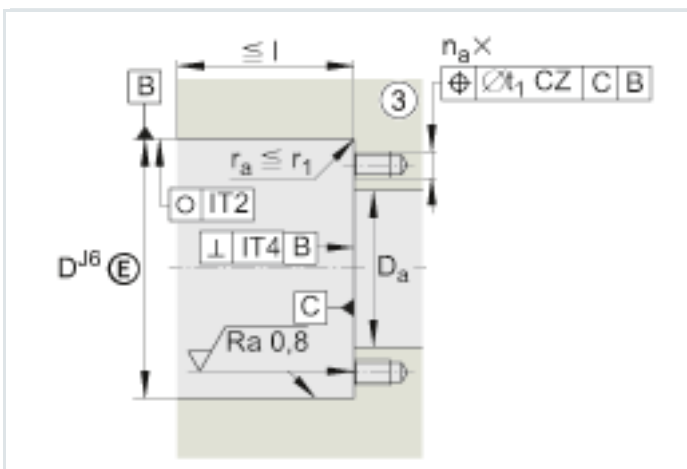


Extraction slot

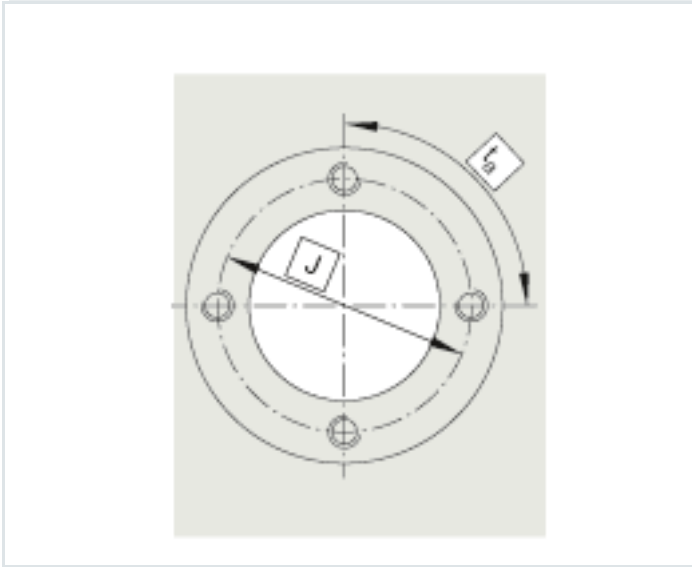




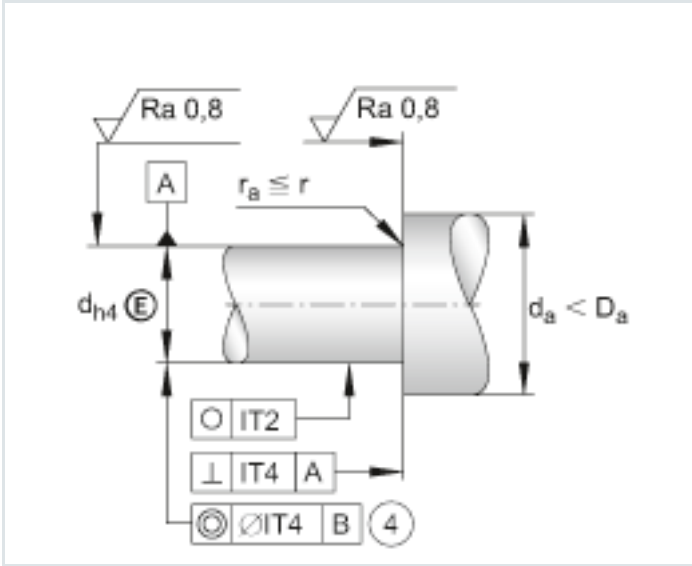
Design of housing
 (2) Adjacent construction, bearing screw mounted on flat surface
 (4) Only valid in assembled condition



Design of housing
 (3) Adjacent construction, bearing screw mounted in bore



Housing design



Design of shaft (threaded spindle)
 (4) Only valid in assembled condition