

ZKLN90150-2Z-XL

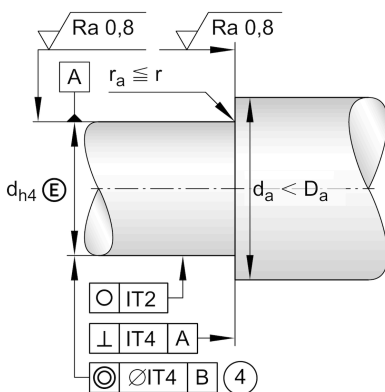
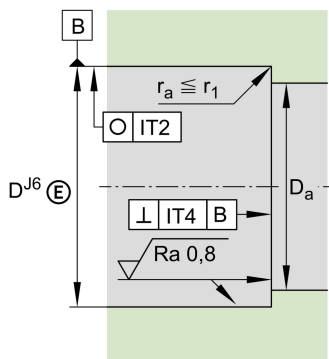
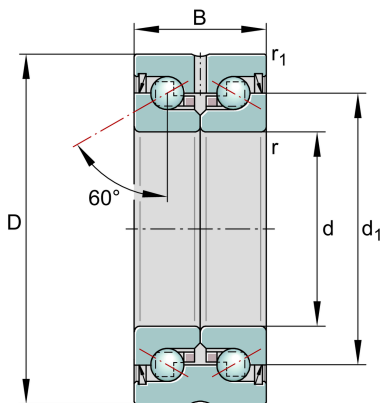
Axial angular contact ball bearing

Schaeffler ID:
0015344160000

Axial angular contact ball bearings
ZKLN..-2Z, double direction, gap seals on
both sides

X-life

Technical information



Main Dimensions & Performance Data

d	90 mm	Bore diameter
	0 mm	Bore diameter upper tolerance
	-0.008 mm	Bore diameter lower tolerance
D	150 mm	Outside diameter
	0 mm	Outside diameter upper tolerance
	-0.015 mm	Outside diameter lower tolerance
B	55 mm	Width
	0 mm	Width upper tolerance
	-0.25 mm	Width lower tolerance
C_a	149,000 N	Basic dynamic load rating, axial
C_{0a}	395,000 N	Basic static load rating, axial
C_{ua}	21,900 N	Fatigue load limit, axial
$n_{G \text{ Grease}}$	3,500 1/min	Limiting speed for grease lubrication
n_g	2,300 1/min	Thermally safe operating speed
M_R	2.3 Nm	Bearing frictional torque
$\approx m$	3.703 kg	Weight

Mounting dimensions

$D_{a \text{ max}}$	138 mm	Maximum diameter of housing
$d_{a \text{ min}}$	116 mm	Minimum diameter shaft

Dimensions

d_1	120 mm	Rib diameter inner ring
r_{min}	0.6 mm	Minimum chamfer dimension
$r_{1 \text{ min}}$	0.6 mm	Minimum chamfer dimension
α	60 °	Contact angle

Temperature range

T_{\min}	-30 °C	Operating temperature min.
T_{\max}	120 °C	Operating temperature max.

Additional information

c_{aL}	1,700 N/μm	Rigidity axial
c_{kL}	4,400 Nm/mrad	Tilting rigidity
M_m	59.9 kg*cm ²	Mass moment of inertia
	3 μm	Axial runout
	ZMA90/130	Recommended INA precision locknut for radial locking
	AM90	Recommended INA precision locknut for axial locking
M_A	200 Nm	Tightening torque for the recommended INA precision locknut
	22,731 N	Required locknut force axial