

Needle roller/axial cylindrical roller bearings

ZARN2052-TV (Series ZARN)

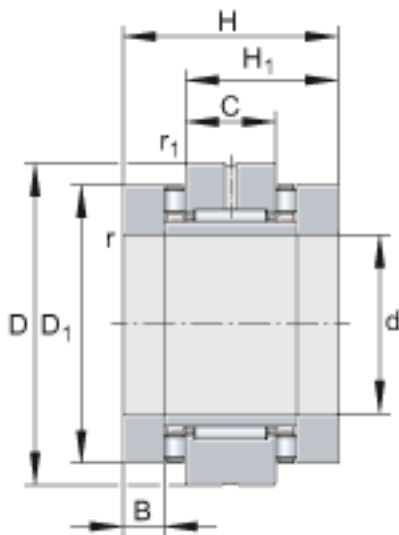
double direction

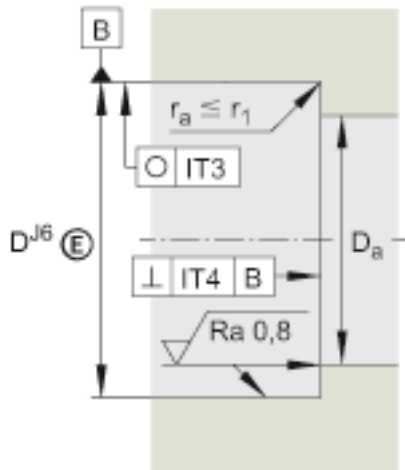
The datasheet is only an overview of dimensions and basic load ratings of the selected product. Please always observe all the guidelines in these overview pages. Further information is given on many products under the menu item "Description". You can also order comprehensive information via the Catalogue 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	20 mm	
D	52 mm	
H	46 mm	
B	10 mm	
C	16 mm	
D ₁	42 mm	
Da max	43 mm	Mounting dimensions If rotary shaft seals are used, the outside diameter of the sealing ring must be taken into consideration.
da min	33 mm	Mounting dimensions If rotary shaft seals are used, the outside diameter of the sealing ring must be taken into consideration.
H ₁	31 mm	
r ₁ min	0,6 mm	

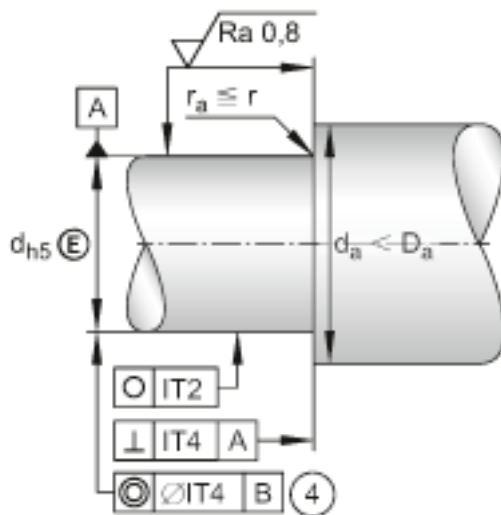
r _{min}	0,3 mm	
m	0,41 kg	Mass
C _a	33500 N	Basic dynamic load rating, axial
C _{0a}	76000 N	Basic static load rating, axial
C _r	14900 N	Basic dynamic load rating, radial
C _{0r}	22400 N	Basic static load rating, radial
C _{ua}	6400 N	Fatigue limit load, axial
C _{ur}	3400 N	Fatigue limit load, radial
n _{G Öl}	7000 1/min	Limiting speed for oil lubrication (valid only with adequate oil cooling)
n _{G Fett}	2000 1/min	Limiting speed for grease lubrication
M _{RL}	0,5 Nm	Bearing frictional torque
C _{aL}	1800 N/μm	Axial rigidity
C _{kL}	230 Nm/mrad	Tilting rigidity
M _m	0,615 kg * cm ²	Mass moment of inertia for rotating inner ring
	1 μm	Axial runout The axial runout data for screw drive bearing arrangements are based on the rotating inner ring.
	ZMA20/38	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.

MA	AM20	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.
	18 Nm	Tightening torque Only valid in conjunction with INA precision locknuts. Observe the guidelines on locating/locating bearing arrangements.
	8972 N	Requisite locknut force, axial The requisite axial locknut force must be observed when using other locknuts.





Housing design



Shaft design (threaded spindle)