

**FAG****53314**

Axial deep groove ball bearing

Axial deep groove ball bearing 533, single direction, with spherical housing washer, steel sheet metal cage

Technical information



Your current product variant

Cage	JP	Steel sheet metal
Tolerance class	PN	Normal (ISO 492:2023)
Dimensional / heat stabilization	S0	Rings dimensional stabilized up to 150°

Main Dimensions & Performance Data

d	70 mm	Inner diameter shaft washer
D	125 mm	Outer diameter housing washer
T	44.2 mm	Height
C_a	134,000 N	Basic dynamic load rating, axial
C_{0a}	290,000 N	Basic static load rating, axial
C_{ua}	13,300 N	Fatigue load limit, axial
n_G	2,750 1/min	Limiting speed
n_{gr}	4,950 1/min	Reference speed
$\approx m$	2.06 kg	Weight

Mounting dimensions

$d_{a \min}$	103 mm	Minimum diameter shaft shoulder
$D_{a \max}$	98 mm	Maximum diameter of housing shoulder
$r_{a \max}$	1 mm	Maximum filled radius



Dimensions

r_{\min}	1.1 mm	Minimum chamfer dimension
D_1	72 mm	Inner diameter housing washer
d_1	125 mm	Outer diameter shaft washer
R	100 mm	Radius spherical housing washer
A	43 mm	Distance of the center point
T_1	48 mm	Height with seat washer
D_2	98 mm	Bore diameter seat washer
D_3	130 mm	Outside diameter seat washer
C	13 mm	Height seat washer

Temperature range

T_{\min}	-30 °C	Operating temperature min.
T_{\max}	150 °C	Operating temperature max.

Calculation factors

A	0.51	Minimum load factor
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Additional information

U314	Seat washer
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Characteristics

F_a	Axial load in one direction
	Grease Lubrication
	Oil Lubrication
	Not sealed
	Static angular error and misalignment