

**FAG****53320** **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	Tolerance class PN, acc. to DIN 620
Dimensional / heat stabilization	S0	Rings dimensional stabilized up to 150°

Main Dimensions & Performance Data

d	100 mm	Inner diameter shaft washer
D	170 mm	Outer diameter housing washer
T	59,2 mm	Height
C_a	238.000 N	Basic dynamic load rating, axial
C_{0a}	580.000 N	Basic static load rating, axial
C_{ua}	23.200 N	Fatigue load limit, axial
n_G	1.970 1/min	Limiting speed
n_{gr}	3.650 1/min	Reference speed
$\approx m$	4,868 kg	Weight

Mounting dimensions

$d_{a \min}$	142 mm	Minimum diameter shaft shoulder
$D_{a \max}$	135 mm	Maximum diameter of housing shoulder
$r_{a \max}$	1,5 mm	Maximum filled radius



Dimensions

r_{\min}	1,5 mm	Minimum chamfer dimension
D_1	103 mm	Inner diameter housing washer
d_1	170 mm	Outer diameter shaft washer
R	125 mm	Radius spherical housing washer
A	46 mm	Distance of the center point
T_1	64 mm	Height with seat washer
D_2	135 mm	Bore diameter seat washer
D_3	175 mm	Outside diameter seat washer
C	18 mm	Height seat washer

Temperature range

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

Calculation factors

A	1,9	Minimum load factor
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Additional information

U320

Seat washer

Characteristics

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