

**FAG****53310** **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	50 mm	Inner diameter shaft washer
D	95 mm	Outer diameter housing washer
T	34.3 mm	Height
$C_a$	82,000 N	Basic dynamic load rating, axial
$C_{0a}$	169,000 N	Basic static load rating, axial
$C_{ua}$	7,700 N	Fatigue load limit, axial
$n_G$	3,550 1/min	Limiting speed
$n_{gr}$	6,400 1/min	Reference speed
$\approx m$	0.969 kg	Weight

**Mounting dimensions**

$d_{a \min}$	77 mm	Minimum diameter shaft shoulder
$D_{a \max}$	72 mm	Maximum diameter of housing shoulder
$r_{a \max}$	1 mm	Maximum filled radius



## Dimensions

$r_{\min}$	1.1 mm	Minimum chamfer dimension
$D_1$	52 mm	Inner diameter housing washer
$d_1$	95 mm	Outer diameter shaft washer
R	72 mm	Radius spherical housing washer
A	28 mm	Distance of the center point
$T_1$	37 mm	Height with seat washer
$D_2$	72 mm	Bore diameter seat washer
$D_3$	100 mm	Outside diameter seat washer
C	11 mm	Height seat washer

## Temperature range

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

## Calculation factors

A	0.18	Minimum load factor
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## Additional information

U310	Seat washer
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## Characteristics

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