



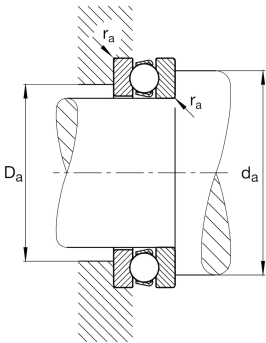
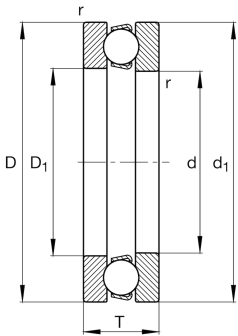
FAG

51120 [↗](#)

Axial deep groove ball bearing

Axial deep groove ball bearing 511, single direction, steel sheet metal cage

Technical information



Your current product variant

Cage	JP	Steel sheet metal
Tolerance class	PN	Normal (PN)

Main Dimensions & Performance Data

d	100 mm	Inner diameter shaft washer
D	135 mm	Outer diameter housing washer
T	25 mm	Height
C _a	85,000 N	Basic dynamic load rating, axial
C _{0a}	270,000 N	Basic static load rating, axial
C _{ua}	11,300 N	Fatigue load limit, axial
n _G	3,500 1/min	Limiting speed
n _{gr}	3,100 1/min	Reference speed
≈m	0.992 kg	Weight

Mounting dimensions

d _{a min}	121 mm	Minimum diameter shaft shoulder
D _{a max}	114 mm	Maximum diameter of housing shoulder
r _{a max}	1 mm	Maximum filled radius



Dimensions

r _{min}	1 mm	Minimum chamfer dimension
D ₁	102 mm	Inner diameter housing washer
d ₁	135 mm	Outer diameter shaft washer

Temperature range

T _{min}	-30 °C	Operating temperature min.
T _{max}	150 °C	Operating temperature max.

Calculation factors

A	0.36	Minimum load factor
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Characteristics

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Axial load in one direction
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Grease Lubrication
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Oil Lubrication
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Not sealed