



31318 Tapered roller bearings, single row

- Popular item

Tapered roller bearings, single row

Technical specification

7GB



DIMENSIONS

d	90 mm	Bore diameter
D	190 mm	Outside diameter
T	46.5 mm	Total bearing width
d_1	≈ 138.88 mm	Inner ring shoulder diameter
B	43 mm	Width inner ring
C	30 mm	Width outer ring
$r_{1,2}$	min. 4 mm	Corner radius inner ring
$r_{3,4}$	min. 3 mm	Corner radius outer ring
a	57.3 mm	Distance pressure point

ABUTMENT DIMENSIONS

d_a	max. 110 mm	Abutment diameter shaft
d_b	min. 105.5 mm	Abutment diameter shaft
D_a	min. 151 mm	Abutment diameter housing



D_a	max. 177.5 mm	Abutment diameter housing
D_b	min. 179 mm	Abutment diameter housing
C_a	min. 5 mm	Abutment housing - axial space at the large side face/ both sides of the outer ring
C_b	min. 16.5 mm	Abutment housing - axial space at the small side face/ both sides of the outer ring
r_a	max. 4 mm	Fillet radius
r_b	max. 3 mm	Fillet radius

CALCULATION DATA

C	283 kN	Basic dynamic load rating
C_0	315 kN	Basic static load rating
P_u	35.5 kN	Fatigue load limit
	2400 r/min	Reference speed
	3400 r/min	Limiting speed
e	0.83	Calculation factor
Y	0.72	Calculation factor
Y_0	0.4	Calculation factor

MASS

	5.39 kg	Mass bearing
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