Technical data

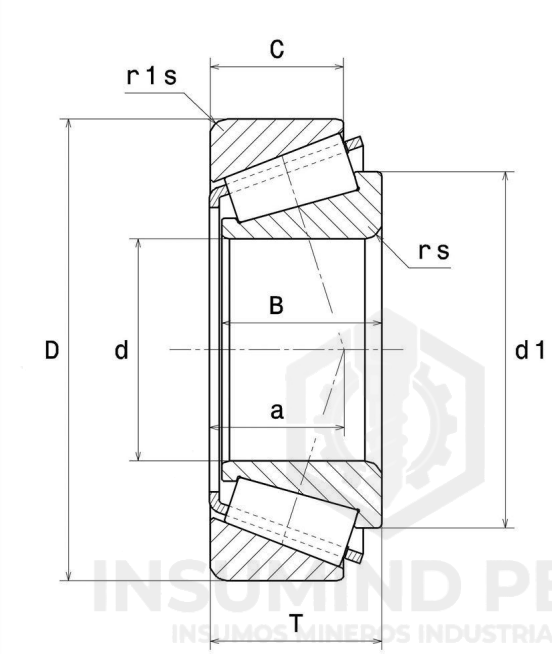
32310U

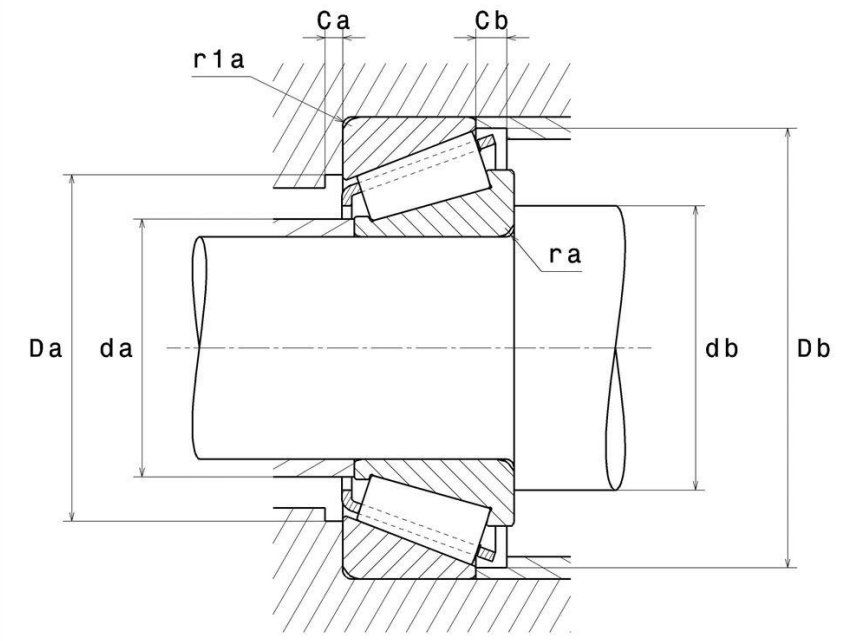
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

VISUAL (S)





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32310U
Single row tapered roller bearings

PRODUCT DEFINITION	
Brand	NTN
d - Internal diameter	50 mm
D - External diameter	110 mm
B - Bearing/Inner ring width	40 mm
C - Outer ring width	33 mm
T - Total width	42,25 mm
d1 - External diameter inner ring	78,5 mm
a - Charge load application point	28,5 mm
rs - Min fillet radius	2,5 mm
r1s - Min fillet radius	2 mm
Mass	1,92 kg
ISO 355 reference	T2FD050

PRODUCT PERFORMANCE	
C - Dynamic load	204 kN
C0 - Static load	232 kN
Cu - Fatigue limit load	28,3 kN
A2 - Rating life coefficient	1
e - Coefficient	0.35
Y0 - Static axial load coefficient	0.96
Y2 - Upper axial load coefficient	1.74
N lim - Oil lubrication limit speed	4800 tr/min
N lim - Grease lubrication limit speed	3600 tr/min
Tmin - Min operating temperature	-40 °C

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PRODUCT PERFORMANCE	
Tmax - Max operating temperature	120 °C

ABUTMENT	
da max - Max shoulder diameter IR	62 mm
db min - Min IR shoulder diameter	62 mm
Da min - Min shoulder diameter OR	90 mm
Da max - Max shoulder diameter OR	100 mm
Db min - Min OR shoulder diameter	102 mm
Ca - Min clearance	3 mm
Cb - Min clearance	9 mm
ra max - Max fillet radius	2 mm
r1a - Max fillet radius	2 mm

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INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

Fa / Fr ≤ e		Fa / Fr > e	
X	Y	X	Y
1	0	0.4	Y2

Equivalent static radial load

$Po = Xo.Fr + Yo.Fa$

X_0	Y_0
0.5	Y0

If Po <Fr, then use Po = Fr

The values for e, Y2 and Y0 are shown in the above table

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