Technical datasheet

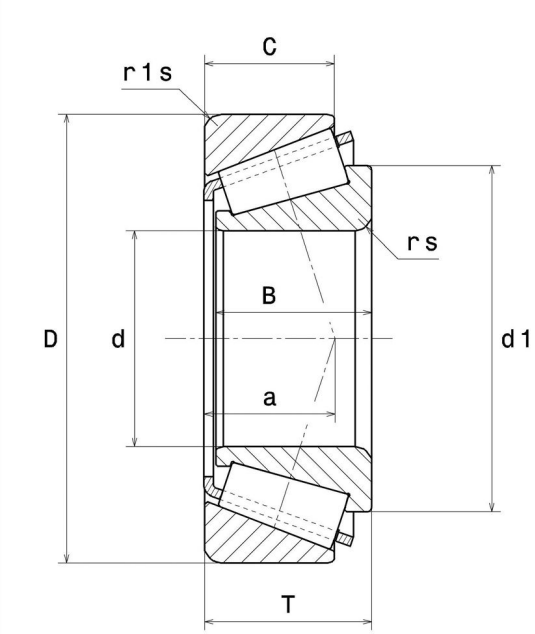
4T-32040XE1

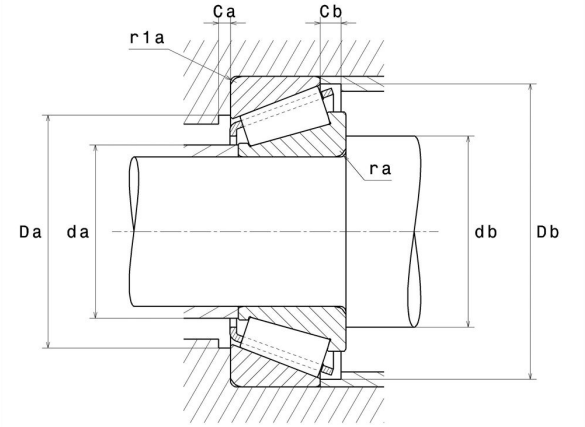
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)





Product definition

d	200 mm
D	310 mm
B	70 mm
C	53 mm
T	70 mm
d1	256 mm
a	66.5 mm
rs min	3 mm
r1s min	2.5 mm
e	0.43
Y2	1.39
Y0	0.77
Mass	19.3 kg
ISO 355 reference	T4FD200
Brand	NTN

Product performance

Dynamic load, C	800 kN
Rating life coefficient, A2	1.4
Static load, C0	1,470 kN
Fatigue limit load, Cu	135.3 kN
Nlim (oil)	1,400 rpm
Nlim (grease)	1,100 rpm
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.45 Hz
Characteristic rolling element frequency, BSF	9.48 Hz
Characteristic outer ring frequency, BPF0	12.6 Hz
Characteristic inner ring frequency, BPFI	15.4 Hz

Abutment dimensions

da max	221 mm
db min	214 mm
Da min	273 mm
Da max	298 mm
Db min	297 mm
Ca min	11 mm
Cb min	17 mm
ra max	2.5 mm
r1a max	2 mm

Calculation factors

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

$Fa / Fr \leq e$		$Fa / Fr > e$	
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