Technical datasheet

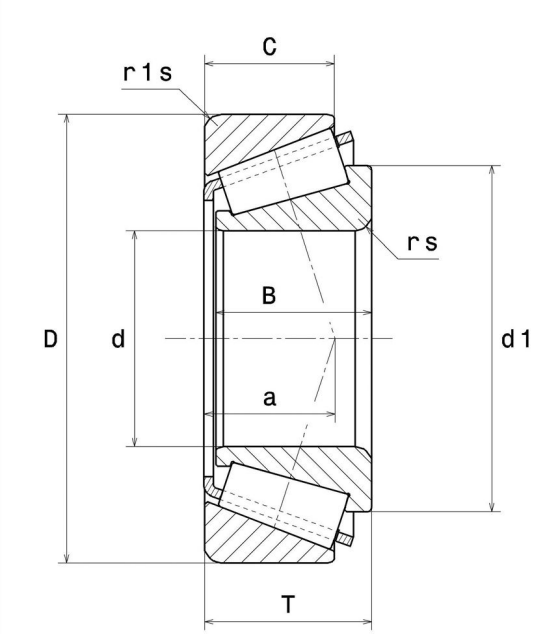
4T-32205R

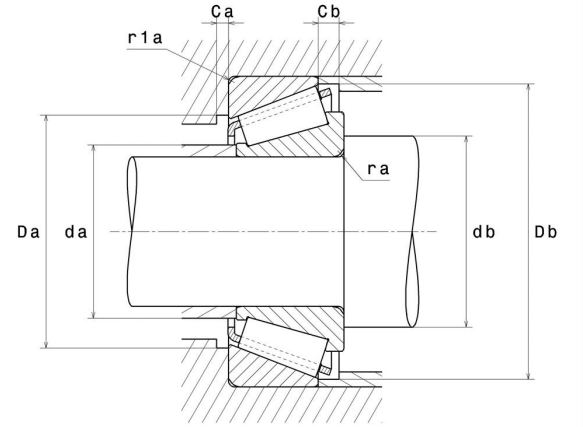
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)





Product definition

d	25 mm
D	52 mm
B	18 mm
C	15 mm
T	19.25 mm
d1	38.5 mm
a	13.5 mm
rs min	1 mm
r1s min	1 mm
e	0.37
Y2	1.6
Y0	0.88
Mass	0.18 kg
Brand	NTN

Product performance

Dynamic load, C	38 kN
Rating life coefficient, A2	1.4
Static load, C0	43 kN
Fatigue limit load, Cu	5.2 kN
Nlim (oil)	9,800 rpm
Nlim (grease)	7,300 rpm
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	5.82 Hz
Characteristic outer ring frequency, BPF0	6.7 Hz
Characteristic inner ring frequency, BPFI	9.3 Hz

Abutment dimensions

da max	31 mm
db min	30.5 mm
Da min	43 mm
Da max	46.5 mm
Db min	48 mm
Ca min	2 mm
Cb min	4 mm
ra max	1 mm
r1a max	1 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