Technical data

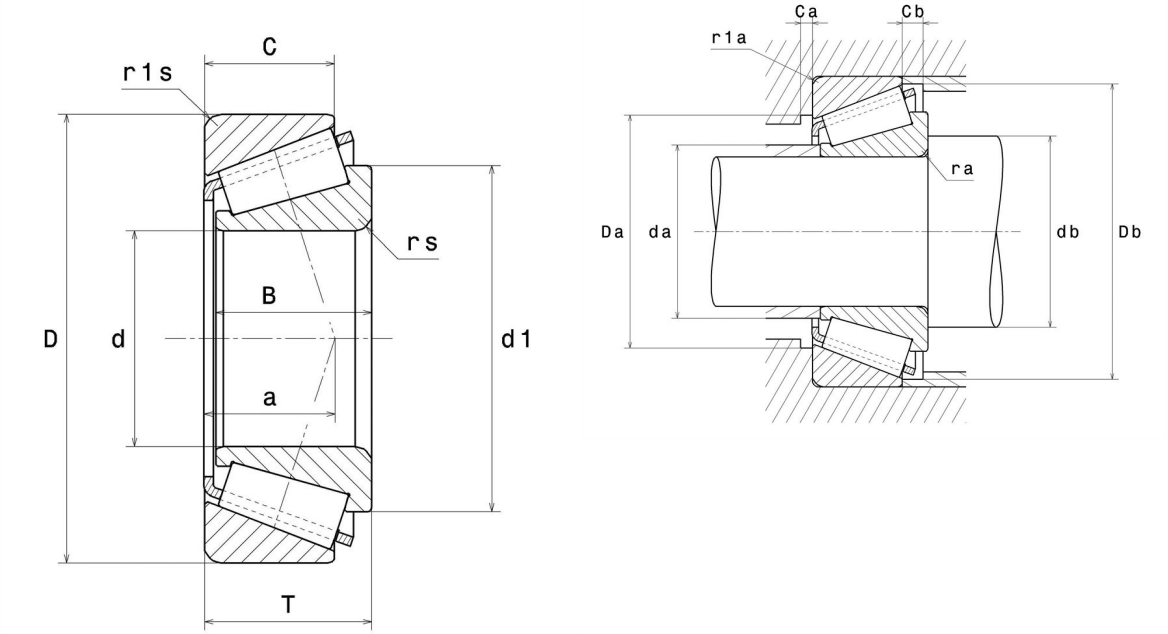
4T-27690/27620

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



Visual(s)



Product definition

d	83.34 mm
D	125.41 mm
B	25.4 mm
C	19.84 mm
T	25.4 mm
d1	105 mm
a	26 mm
e	0.42
Y2	1.44
Y0	0.79
Mass	1.05 kg
Brand	NTN

Product performance

Dynamic load, C	102 kN
Rating life coefficient, A2	1.4
Static load, C0	163 kN
Fatigue limit load, Cu	19.6 kN
Nlim (oil)	3,600 Tr/min
Nlim (grease)	2,700 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.46 Hz
Characteristic rolling element frequency, BSF	11.22 Hz
Characteristic outer ring frequency, BPF0	12.35 Hz
Characteristic inner ring frequency, BPFI	14.65 Hz

Abutment dimensions

ra max	3.5 mm
r1a max	1.5 mm

Calculation 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