Technical data

4T-23100/23256

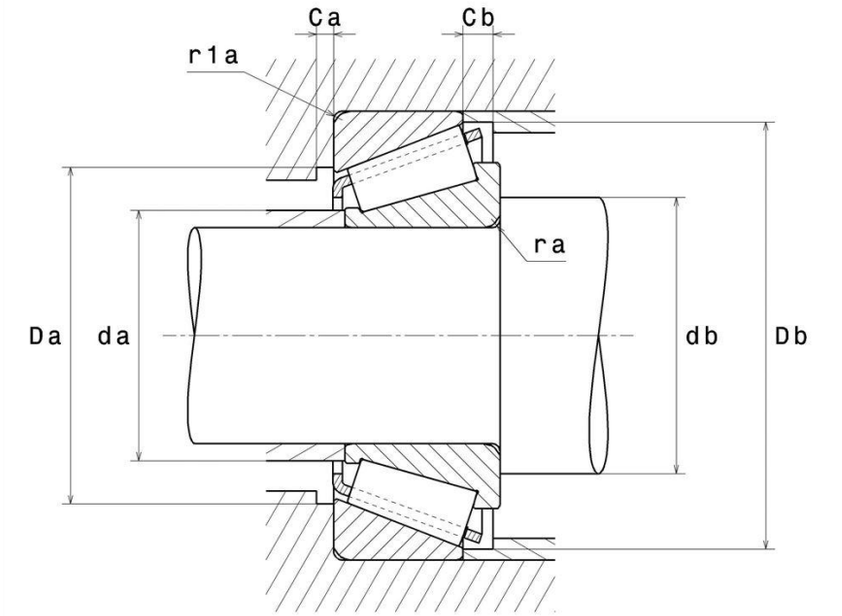
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

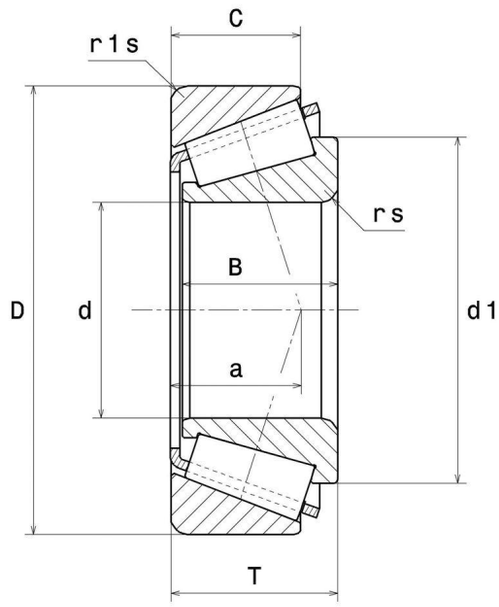
KIT CONTENT

4T-23100, 4T-23256

VISUAL (S)



4T-23100/23256
Single row tapered roller bearings



PRODUCT DIMENSIONS	
d - Internal diameter	25.4 mm
D - External diameter	65.088 mm
B - Bearing/Inner ring width	21.463 mm
C - Outer ring width	15.875 mm
T - Total width	22.225 mm
d1 - External diameter inner ring	46.5 mm
a - Charge load application point	20.225 mm
Mass	0.363 kg
Brand	NTN

PRODUCT PERFORMANCE	
C - Dynamic load	52 kN
C0 - Static load	50.5 kN
Cu - Fatigue limit load	6.2 kN

4T-23100/23256
Single row tapered roller bearings

PRODUCT PERFORMANCE	
A2 - Rating life coefficient	1
e - Coefficient	0.73
Y0 - Static axial load coefficient	0.45
Y2 - Upper axial load coefficient	0.82
Nlim - Oil lubrication limit speed	7600 tr/min
Nlim - Grease lubrication limit speed	5700 tr/min
Tmin - Min operating temperature	-40 °C
Tmax - Max operating temperature	120 °C
FTF - Characteristic cage frequency	0.417 Hz
BSF - Characteristic rolling element frequency	5.274 Hz
BPFO - Characteristic outer ring frequency	5.84 Hz
BPFI - Characteristic inner ring frequency	8.16 Hz

ABUTMENT	
da max - Max shoulder diameter IR	34.5 mm
db min - Min IR shoulder diameter	39 mm
Da max - Max shoulder diameter OR	53 mm
Db min - Min OR shoulder diameter	63 mm
ra max - Max fillet radius	1.5 mm
r1a - Max fillet radius	1.5 mm

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