Technical data

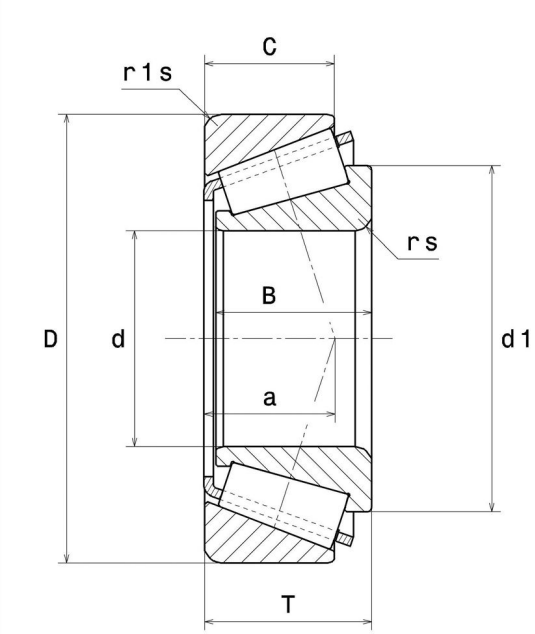
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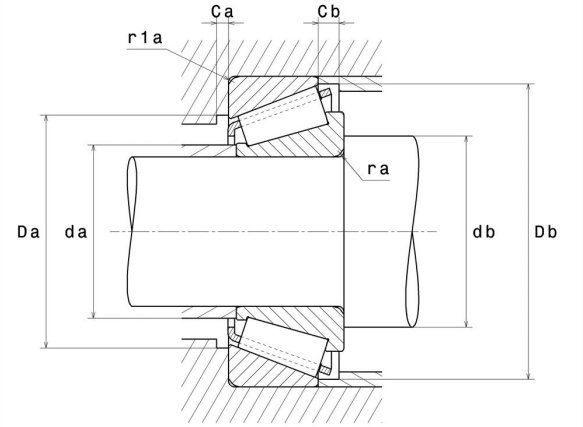
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



Visual(s)





Product definition

d	90 mm
D	160 mm
B	55 mm
C	42 mm
T	55 mm
a	41 mm
rs min	2.5 mm
r1s min	2 mm
e	0.42
Y2	1.43
Y0	0.78
Mass	4.62 kg
ISO 355 reference	T3FE090
Brand	NTN

Product performance

Dynamic load, C	325 kN
Rating life coefficient, A2	1
Static load, C0	490 kN
Nlim (oil)	3,000 Tr/min
Nlim (grease)	2,200 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.44 Hz
Characteristic rolling element frequency, BSF	7.26 Hz
Characteristic outer ring frequency, BPF0	8.7 Hz
Characteristic inner ring frequency, BPFI	11.3 Hz

Abutment dimensions

da max	102 mm
db min	101.5 mm
Da min	131.5 mm
Da max	150 mm
Db min	154.5 mm
ra max	2 mm
r1a max	2 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