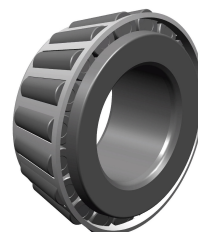


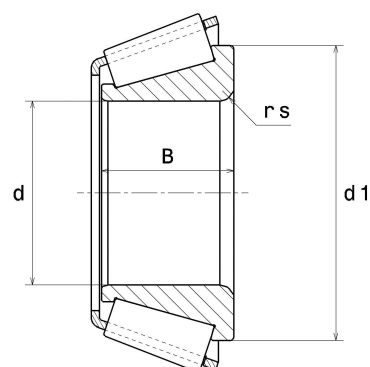
PDF technical sheet 4T48290



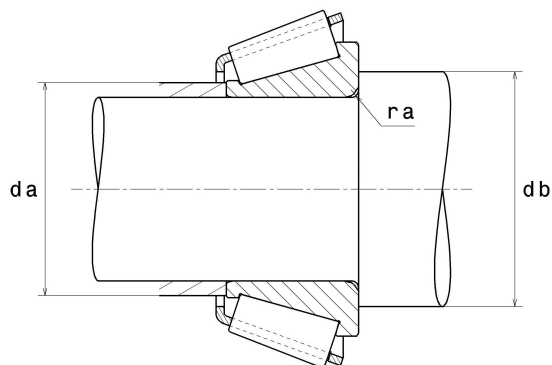
Single row tapered roller bearings

Mounted cone, sheet metal cage

Product definition	
d	5.0000 "
B	1.5000 "
d1	6.1220 "
e	0.31
Y2	1.97
Y0	1.08
Brand	BOWER



Product performance	
Dynamic load, C	224 kN
Rating life coefficient, A2	1.4
Static load, C0	435 kN
Fatigue limit load, Cu	46.50 kN
Nlim (oil)	2,400 RPM
Nlim (grease)	1,800 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.46 Hz
Characteristic rolling element frequency, BSF	13.23 Hz
Characteristic outer ring frequency, BPF0	15.29 Hz
Characteristic inner ring frequency, BPFI	17.72 Hz



Abutment dimensions	
ra max	0.1378 "

Calculation factors

Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

$F_a / F_r \leq e$		$F_a / F_r > e$	
X	Y	X	Y
1	0	0.4	Y2

Equivalent static radial load

$$P_0 = X_0.F_r + Y_0.F_a$$

X_0	Y_0
0.5	Y0

If $P_0 < F_r$, then use $P_0 = F_r$

The values for e, Y2 and Y0 are shown in the above table