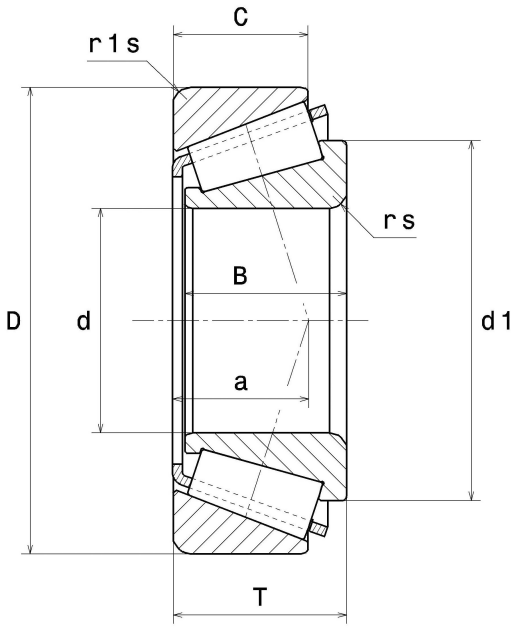
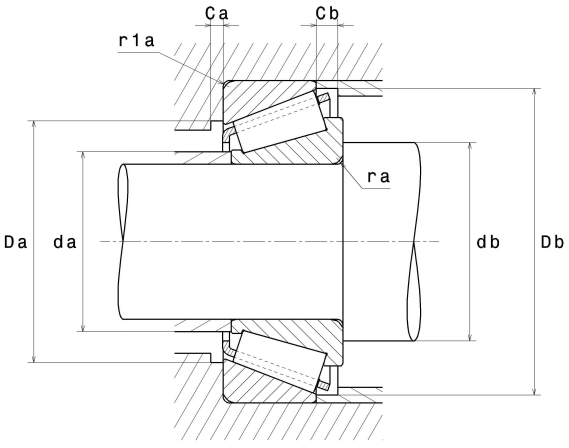
# PDF technical sheet
# 46780/46720

## Single row tapered roller bearings
Tapered roller bearing, pressed steel cage

| Product definition | |
|---|---|
| d | 6.2500 " |
| D | 8.8750 " |
| B | 1.5625 " |
| C | 1.3125 " |
| T | 1.6250 " |
| d1 | 7.7756 " |
| a | 1.7274 " |
| e | 0.38 |
| Y2 | 1.57 |
| Y0 | 0.86 |
| Mass | 18.34 oz |
| Brand | BOWER |




| Product performance | |
|---|---|
| Dynamic load, C | 254 kN |
| Rating life coefficient, A2 | 1.4 |
| Static load, C0 | 555 kN |
| Fatigue limit load, Cu | 55.30 kN |
| Nlim (oil) | 1,900 RPM |
| Nlim (grease) | 1,400 RPM |
| Min operating temperature, Tmin | −40 °C |
| Max operating temperature, Tmax | 248 °C |
| Characteristic cage frequency, FTF | 0.47 Hz |
| Characteristic rolling element frequency, BSF | 16.72 Hz |
| Characteristic outer ring frequency, BPF0 | 19.79 Hz |
| Characteristic inner ring frequency, BPFI | 22.21 Hz |




| Abutment dimensions | |
|---|---|
| ra max | 0.1378 " |
| r1a max | 0.1299 " |

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## 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