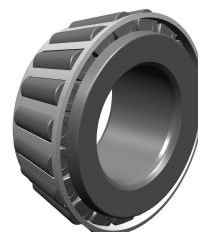


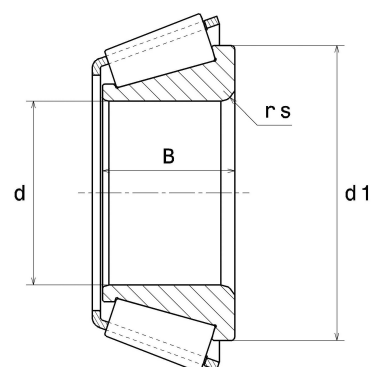
## PDF technical sheet 4T3578



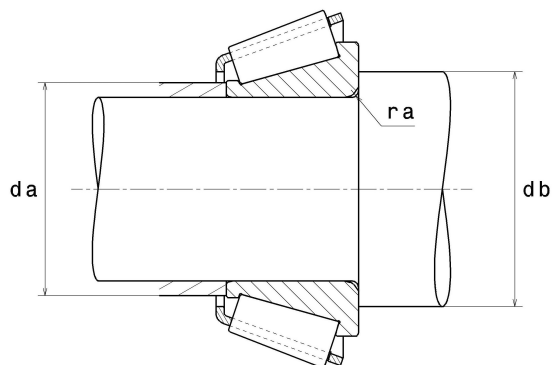
### Single row tapered roller bearings

Mounted cone, sheet metal cage

| Product definition |          |
|--------------------|----------|
| d                  | 1.7500 " |
| B                  | 1.2160 " |
| d1                 | 2.5039 " |
| e                  | 0.31     |
| Y2                 | 1.96     |
| Y0                 | 1.08     |
| Brand              | NTN      |



| Product performance                           |           |
|-----------------------------------------------|-----------|
| Dynamic load, C                               | 94 kN     |
| Rating life coefficient, A2                   | 1.4       |
| Static load, C0                               | 117 kN    |
| Fatigue limit load, Cu                        | 14.30 kN  |
| Nlim (oil)                                    | 5,900 RPM |
| Nlim (grease)                                 | 4,400 RPM |
| Min operating temperature, Tmin               | -40 °C    |
| Max operating temperature, Tmax               | 248 °C    |
| Characteristic cage frequency, FTF            | 0.42 Hz   |
| Characteristic rolling element frequency, BSF | 6.19 Hz   |
| Characteristic outer ring frequency, BPF0     | 6.76 Hz   |
| Characteristic inner ring frequency, BPFI     | 9.24 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