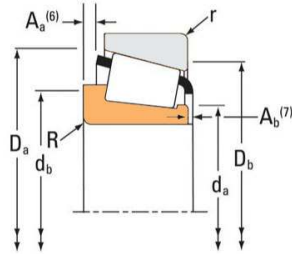




# NTN BEARINGS INDUSTRY

## TYPE TS



## Timken 23100 Bearing

Bearing No. 23100

23100 Bearing 2D drawings and 3D CAD models

|   |               |
|---|---------------|
| Series  | 23000         |
| Cone Part Number  | 23100         |
| Design Units  | Imperial      |
| Cage Type   | Stamped Steel |
| C1 - Dynamic Radial Rating (Two-Row, 1 million revolutions) <sup>1</sup>      | 21400 lbf     |
| C90(2) - Dynamic Radial Rating (Two-Row, 90 million revolutions) <sup>2</sup> | 5540 lbf      |
| d   | 1.0000 in     |
| B - Cone Width  | 0.8450 in     |
| R - Cone Backface To Clear Radius <sup>3</sup>                                | 0.06 in       |
| da - Cone Frontface Backing Diameter  | 1.36 in       |
| db - Cone Backface Backing Diameter   | 1.54 in       |
| Ab - Cage-Cone Frontface Clearance  | 0.1 in        |
| Aa - Cage-Cone Backface Clearance   | 0.12 in       |
| a - Effective Center Location <sup>4</sup>                                    | -0.09 in      |
| C90 - Dynamic Radial Rating (90 million revolutions) <sup>5</sup>             | 3180 lbf      |
| C1 - Dynamic Radial Rating (1 million revolutions) <sup>6</sup>               | 12300 lbf     |
| C0 - Static Radial Rating   | 12500 lbf     |



## NTN BEARINGS INDUSTRY

|   |          |
|---|----------|
| $C_{a90}$ - Dynamic Thrust Rating (90 million revolutions) <sup>7</sup> | 3990 lbf |
| K - Factor <sup>8</sup>   | 0.8      |
| G1 - Heat Generation Factor (Roller-Raceway)                            | 11.3     |
| G2 - Heat Generation Factor (Rib-Roller End)                            | 6.57     |
| Cg - Geometry Factor  | 0.070    |