

## Bearing Product Number Search Tool

### Angular Contact Ball Brgs. (Tandem arrangement)

Product number: **7309BDT**

[CAD data \(external link\)](#)

### Main specifications

| Boundary dimensions<br>(mm) |                     |               |                      |                 | Basic load ratings<br>(kN) |                    | Fatigue load<br>limit<br>(kN) | Limiting speed<br>(min <sup>-1</sup> ) |       | Load<br>center<br>(mm) | Mass<br>(kg)<br><approx.> |
|-----------------------------|---------------------|---------------|----------------------|-----------------|----------------------------|--------------------|-------------------------------|----------------------------------------|-------|------------------------|---------------------------|
| Bore<br>dia. $d$            | Outside<br>dia. $D$ | Width<br>$2B$ | Chamfer<br>$r_s$ min | $r_{1s}$<br>min | Dynamic<br>$C_r$           | Static<br>$C_{0r}$ | $C_u$                         | Grease                                 | Oil   | $a$                    |                           |
| 45                          | 100                 | 50            | 1.5                  | 1               | 105                        | 81.0               | 3.15                          | 5 400                                  | 7 200 | 43                     | 1.708                     |

| Abutment and fillet dimensions<br>(mm) |              |              |              |                 |                   |
|----------------------------------------|--------------|--------------|--------------|-----------------|-------------------|
| $d_a$<br>min                           | $d_b$<br>min | $D_a$<br>max | $D_b$<br>max | $r_{as}$<br>max | $r_{1 as}$<br>max |
| 53.5                                   | 50.5         | 91.5         | 94.5         | 1.5             | 1                 |

### Reference drawing

