



# 11590/11520

SKF Explorer

## Tapered roller bearings, single row

Bearing data

Tolerances,

Normal and CL7C, CLN, Normal and CL, deviating width

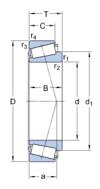
Bearing interfaces

Seat tolerances for standard conditions,

Tolerances and resultant fit

## Technical specification

Dimension series 11500



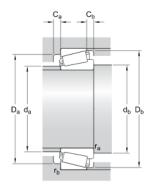
### **DIMENSIONS**

| d                | 15.875 mm   |
|------------------|-------------|
| D                | 42.862 mm   |
| Т                | 14.288 mm   |
| $d_1$            | ≈ 31.1 mm   |
| В                | 14.288 mm   |
| С                | 9.525 mm    |
| r <sub>1,2</sub> | min. 1.5 mm |
| r <sub>3,4</sub> | min. 1.5 mm |
| a                | 12.624 mm   |

### ABUTMENT DIMENSIONS

| d <sub>a</sub> | max. 23 mm   |
|----------------|--------------|
| d <sub>b</sub> | min. 23.5 mm |
| D <sub>a</sub> | min. 32 mm   |
| $D_a$          | max. 36.5 mm |





| $D_b$          | min. 38 mm  |
|----------------|-------------|
| $C_{a}$        | min. 2 mm   |
| $C_{b}$        | min. 4.5 mm |
| r <sub>a</sub> | max. 1.5 mm |
| $r_b$          | max. 1.5 mm |

### CALCULATION DATA

| Basic dynamic load rating | С              | 21.5 kN     |
|---------------------------|----------------|-------------|
| Basic static load rating  | $C_0$          | 17.6 kN     |
| Fatigue load limit        | $P_{u}$        | 1.8 kN      |
| Reference speed           |                | 13000 r/min |
| Limiting speed            |                | 17000 r/min |
| Calculation factor        | е              | 0.72        |
| Calculation factor        | Υ              | 0.84        |
| Calculation factor        | Y <sub>0</sub> | 0.45        |

### MASS

| Mass bearing | 0.1 kg |
|--------------|--------|
|--------------|--------|





### More information

| Designs                       | Designs                       |   |                             | SimPro                            | SimPro                            |        |        |
|-------------------------------|-------------------------------|---|-----------------------------|-----------------------------------|-----------------------------------|--------|--------|
| and variants                  | and<br>variants               | Principles of rolling bearing -selection General bearing k nowledge | of rolling of rolling       | Quick ——— Bearing                 | Quick ——— Bearing                 |        |        |
| Bearing data                  | Bearing<br>data               |   | selection                   | selection                         | bearing<br>-selection<br>General  | Select | Select |
| Loads                         | Loads                         |   | bearing k<br>nowledge       | Engineer<br>ing Calcul<br>ator    | Engineer<br>ing Calcul<br>ator    |        |        |
| Tempera<br>ture<br>limits     | Tempera<br>ture<br>limits     |   | Bearing selection process   | LubeSele<br>ct for SKF<br>greases | LubeSele<br>ct for SKF<br>greases |        |        |
| Permissi<br>ble speed         | Permissi<br>ble speed         | Bearing failure   | Bearing<br>failure          | Heater<br>Selection               | Heater<br>Selection               |        |        |
| Design c<br>onsiderati<br>ons | Design c<br>onsiderati<br>ons | and how<br>to<br>prevent it   | and how<br>to<br>prevent it | Tool Oil Injection Method         | Tool Oil Injection Method         |        |        |
| Bearing<br>designati<br>ons   | Bearing<br>designati<br>ons   |   |                             | Program<br>skf.com/<br>mount      | Program<br>skf.com/<br>mount      |        |        |
| Designati<br>on<br>system     | Designati<br>on<br>system     |   |                             |                                   |                                   |        |        |

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