



2210 ETN9 Self-aligning ball bearings

- Popular item

Self-aligning ball bearings

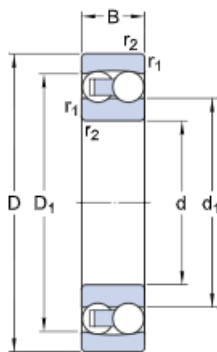
Bearing data

[Tolerances](#),
Normal, JS7,
[Radial internal clearance](#),
table

Bearing interfaceS

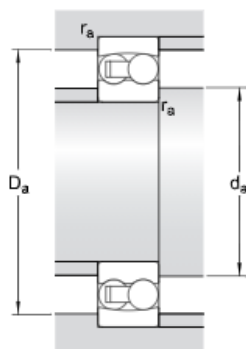
[Seat tolerances for standard conditions](#),
[Tolerances and resultant fits](#)

Technical specification



DIMENSIONS

| | | |
|-----------|-------------|------------------------------|
| d | 50 mm | Bore diameter |
| D | 90 mm | Outside diameter |
| B | 23 mm | Width |
| d_1 | ≈ 61.47 mm | Shoulder diameter inner ring |
| D_1 | ≈ 80.2 mm | Shoulder diameter outer ring |
| $r_{1,2}$ | min. 1.1 mm | Chamfer dimension |



ABUTMENT DIMENSIONS

| | | |
|-------|-------------|---------------------------|
| d_a | min. 57 mm | Abutment diameter shaft |
| D_c | max. 83 mm | Abutment diameter housing |
| r_a | max. 1.1 mm | Fillet radius |

CALCULATION DATA

| | | |
|----------------|--------------|----------------------------------|
| C | 33.8 kN | Basic dynamic load rating |
| C ₀ | 11.2 kN | Basic static load rating |
| P _u | 0.57 kN | Fatigue load limit |
| | 14 000 r/min | Reference speed |
| | 9 500 r/min | Limiting speed |
| α | 2.5 ° | Permissible angular misalignment |
| k _r | 0.045 | Calculation factor |
| e | 0.23 | Calculation factor |
| Y ₀ | 2.8 | Calculation factor |
| Y ₁ | 2.7 | Calculation factor |
| Y ₂ | 4.2 | Calculation factor |

MASS

| | | |
|--|--------|--------------|
| | 0.6 kg | Mass bearing |
|--|--------|--------------|