



# 6210 M Deep groove ball bearings

- SKF Explorer

## Deep groove ball bearings

### Bearing data

[Tolerances,](#)

Normal (metric), P6, P5, Normal (inch),

[Radial internal clearance,](#)

Matched bearing pairs, Stainless steel

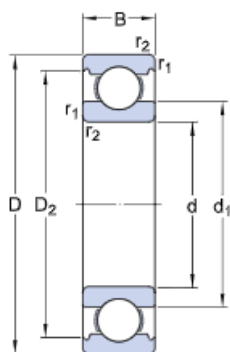
$d < 10$  mm, Other bearings

### Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

## Technical specification

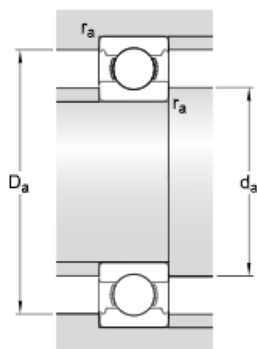


### DIMENSIONS

|           |                    |                   |
|-----------|--------------------|-------------------|
| d         | 50 mm              | Bore diameter     |
| D         | 90 mm              | Outside diameter  |
| B         | 20 mm              | Width             |
| $d_1$     | $\approx 62.51$ mm | Shoulder diameter |
| $D_2$     | $\approx 81.61$ mm | Recess diameter   |
| $r_{1,2}$ | min. 1.1 mm        | Chamfer dimension |

### ABUTMENT DIMENSIONS

|                  |                                   |
|------------------|-----------------------------------|
| $d_e$ min. 57 mm | Diameter of shaft abutment        |
| $D_i$ max. 83 mm | Diameter of housing abutment      |
| $r_a$ max. 1 mm  | Radius of shaft or housing fillet |



## CALCULATION DATA

|                |              |                           |
|----------------|--------------|---------------------------|
| C              | 37.1 kN      | Basic dynamic load rating |
| C <sub>0</sub> | 23.2 kN      | Basic static load rating  |
| P <sub>u</sub> | 0.98 kN      | Fatigue load limit        |
|                | 15 000 r/min | Reference speed           |
|                | 14 000 r/min | Limiting speed            |
| k <sub>r</sub> | 0.025        | Minimum load factor       |
| f <sub>0</sub> | 14.4         | Calculation factor        |

## MASS

|         |              |
|---------|--------------|
| 0.52 kg | Mass bearing |
|---------|--------------|

## TOLERANCE CLASS

|    |                        |
|----|------------------------|
| P6 | Dimensional tolerances |
| P6 | Radial run-out         |