



W 6210 Deep groove ball bearings

Deep groove ball bearings

Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

Matched bearing pairs, Stainless steel

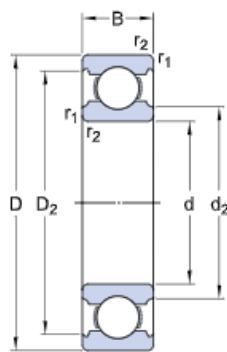
$d < 10$ mm, Other bearings

Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

Technical specification

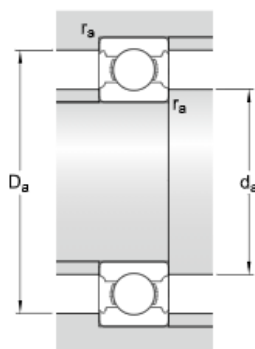


DIMENSIONS

d	50 mm	Bore diameter
D	90 mm	Outside diameter
B	20 mm	Width
d_2	≈ 60 mm	Recess diameter
D_2	≈ 82.15 mm	Recess diameter
$r_{1,2}$	min. 1.1 mm	Chamfer dimension

ABUTMENT DIMENSIONS

d_a min. 55 mm	Diameter of shaft abutment
D_a max. 83.5 mm	Diameter of housing abutment
r_a max. 1 mm	Radius of shaft or housing fillet



CALCULATION DATA

C	30.2 kN	Basic dynamic load rating
C ₀	23.2 kN	Basic static load rating
P _u	0.98 kN	Fatigue load limit
	17 000 r/min	Reference speed
	10 000 r/min	Limiting speed
k _r	0.03	Minimum load factor
f ₀	14.4	Calculation factor

MASS

0.43 kg	Mass bearing
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TOLERANCE CLASS

Normal	Dimensional tolerances
Normal	Radial run-out