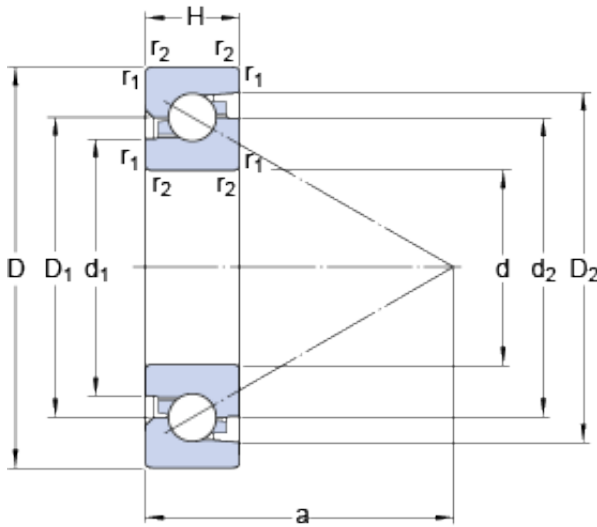




DPA Bearing Sales Corp.

SKF BSD 50100 C High Speed Main Shaft Spindle Bearings

Bearing No. BSD 50100 C



BSD 50100 C Bearing 2D drawings and 3D CAD models

Size	50x100x20 mm
Bore Diameter	50 mm
Outer Diameter	100 mm
Width	20 mm
d	50 mm
D	100 mm
H	20 mm
d ₁	66.9 mm
d ₂	77 mm
D ₁	77.1 mm
D ₂	87.76 mm
r _{1,2} - min.	1.5 mm
a	82 mm
d _a - min.	65 mm
d _b - min.	65 mm
D _a - max.	90.5 mm
D _b - max.	90.5 mm
r _a - max.	1.5 mm
Basic dynamic load rating - C	67 kN
Basic static load rating - C ₀	193 kN
Fatigue load limit - P _u	7.2 kN
Limiting speed for grease lubrication	5600 r/min
Limiting speed for oil	6700 mm/min



DPA Bearing Sales Corp.

Lubrication	
Preload class A	6200 N
Preload class B	12400 N
Frictional moment, Preload class A	0.52 N · m
Frictional moment, Preload class B	0.97 N · m
Static Axial rigidity, Preload class A	1550 N/micron
Static Axial rigidity, Preload class B	1970 N/micron
Max. axial load - F_a	max. 107 kN
G_{ref}	6.5 cm ³
d_1	66.9 mm
d_2	77 mm
D_1	77.1 mm
D_2	87.76 mm
$r_{1,2}$ min.	1.5 mm
d_a min.	65 mm
d_b min.	65 mm
D_a max.	90.5 mm
D_b max.	90.5 mm
r_a max.	1.5 mm
Basic dynamic load rating C	67 kN
Basic static load rating C_0	193 kN
Fatigue load limit P_u	7.2 kN
Attainable speed for grease lubrication	5600 r/min
Attainable speed for oil-air lubrication	6700 r/min
Frictional moment, preload class A	0.52 N · m
Frictional moment, preload class B	0.97 N · m



DPA Bearing Sales Corp.

Static axial stiffness, preload A	1550 N/ μ m
Static axial stiffness, preload B	1970 N/ μ m
Maximum axial load carrying capacity F_a max.	107 kN
Reference grease quantity G_{ref}	6.5 cm ³
Mass bearing	0.71 kg