

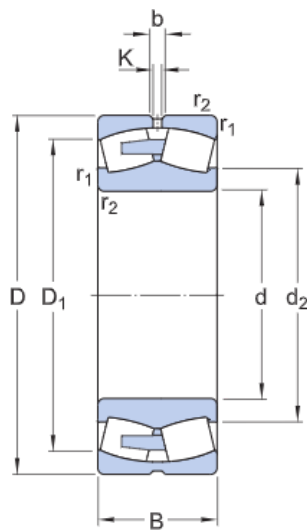
241/530 Spherical roller bearing

Technical Specification



Bore type

Cylindrical

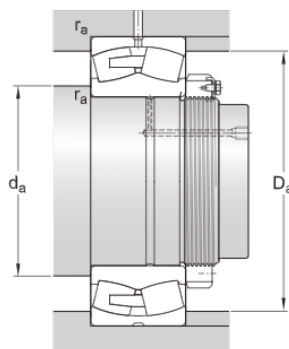


Dimensions

d	530 mm	Bore diameter
D	870 mm	Outside diameter
B	335 mm	Width
d_2	≈ 623 mm	Shoulder diameter of inner ring
D_1	≈ 748 mm	Shoulder/recess diameter of outer ring
b	22.3 mm	Width of lubrication groove
K	12 mm	Diameter of lubrication hole
$r_{1,2}$	min. 7.5 mm	Chamfer dimension

Abutment dimensions

d_a	min. 562 mm	Diameter of shaft abutment
D_e	max. 838 mm	Diameter of housing abutment
r_a	max. 6 mm	Radius of fillet



Calculation data

Basic dynamic load rating	C	10 909 kN
Basic static load rating	C_0	19 000 kN

Fatigue load limit	P_u	1 220 kN
Reference speed		240 r/min
Limiting speed		360 r/min
Limiting value	e	0.37
Calculation factor	Y_1	1.8
Calculation factor	Y_2	2.7
Calculation factor	Y_0	1.8

Mass

Mass		780 kg
------	--	--------

Tolerance class

Dimensional tolerances		Normal
Radial run-out		Normal