



ROLLER GIN BEARING CATALOG



C.N.INDUSTRIAL PRODUCT

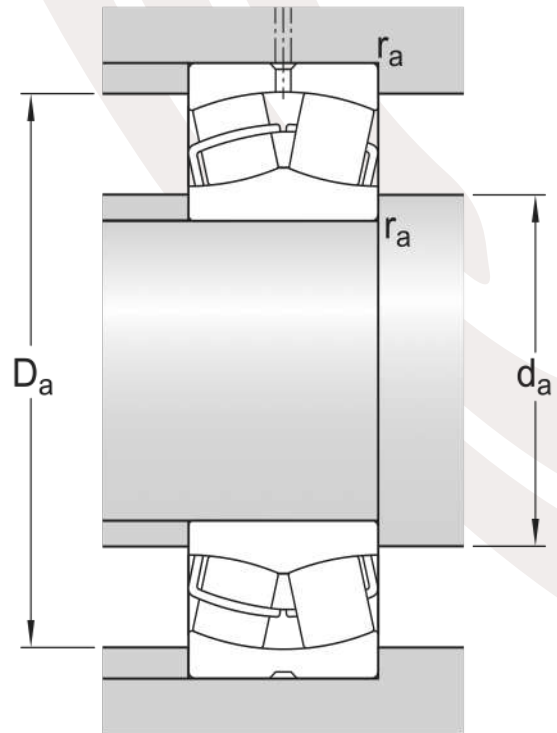
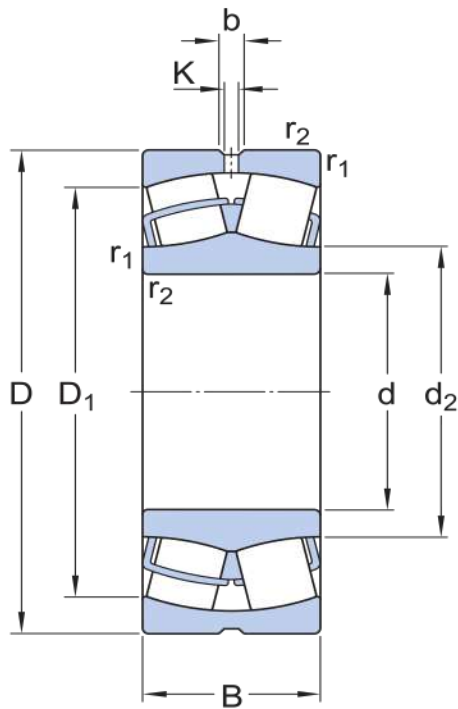
(AN ISO : 9001-2015, 14001:2015 & 45001:2018)



ROLLER GIN BEARING MANUAL

SR NO	ROLLER GINNING BEARING NO	MRP
1	22211	
2	6004 ZZ	
3	6005 ZZ	
4	6007 & 6007 zz	
5	6008 & 6008 zz	
6	6010	
7	6011	
8	6208	
9	6305 ZZ	
10	6309	
11	433.02	
12	304020 Bearing WITH PIN	
13	NA 4911 (2-RS) (80 X 55 X 46)	
14	NA 4911 SP	
15	NA 95002	
16	NA 95002 IR	
17	NJ 309	
18	NJ 309 IR (Only Cone)	
19	NU 309	
20	NU 309 IR	
21	RNA 6902	
22	RNA 6902 PIN ONLY (Length 72 MM)	
23	RNA 6902 PIN ONLY (Length 85 MM)	
24	RNA 6902 BRG + PIN ONLY (72 MM)	
25	RNA 6902 BRG + PIN ONLY (85 MM)	
26	WRIST PIN	
27	WRIST PIN (25.4)	
28	AB 506825	
29	AB 506825 IR	
30	AB 5565	
31	AB 5565 IR	

SPECIFICATION - 22211



Calculation data

Basic dynamic load rating	C	129 kN
Basic static load rating	C ₀	127 kN
Fatigue load limit	P _u	14 kN
Reference speed		6 300 r/min
Limiting speed		8 500 r/min
Limiting value	e	0.24
Axial load factor	Y ₁	2.8
Axial load factor	Y ₂	4.2
Axial load factor	Y ₀	2.8

Basic Load Ratings

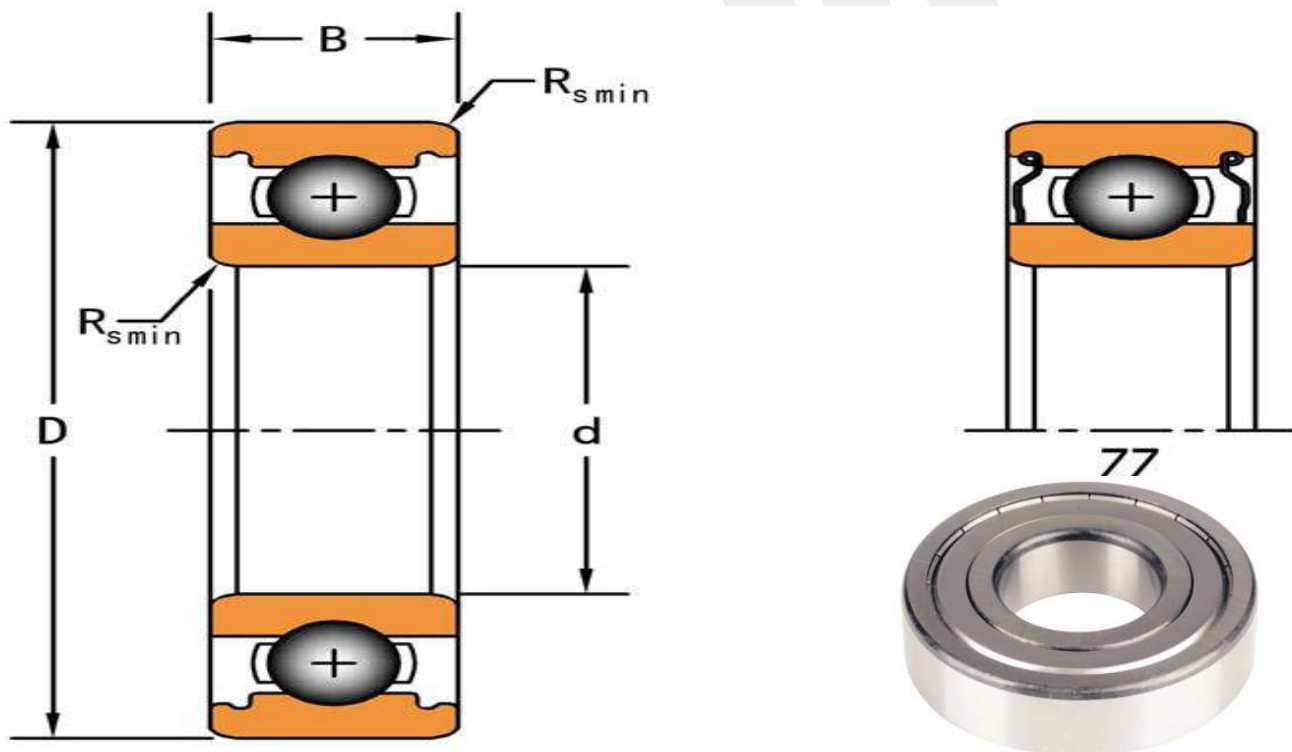
1	Static Load	127000 N
2	Dynamic	129000 N

Dimensions

1	d	55 mm	Bore diameter
2	D	100 mm	Outside diameter
3	B	25 mm	Width
4	d ₂	≈65.3 mm	Shoulder diameter of inner ring
5	D ₁	≈88 mm	Shoulder/recess diameter of outer ring
6	b	6 mm	Width of lubrication groove
7	K	3 mm	Diameter of lubrication hole
8	r _{1,2}	min.1.5 mm	Chamfer dimension

Abutment dimensions

9	d _a	min.64 mm	Diameter of shaft abutment
10	D _a	max.91 mm	Diameter of housing abutment
11	r _a	max.1.5 mm	Radius of fillet



Dimensions

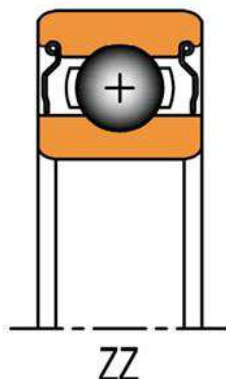
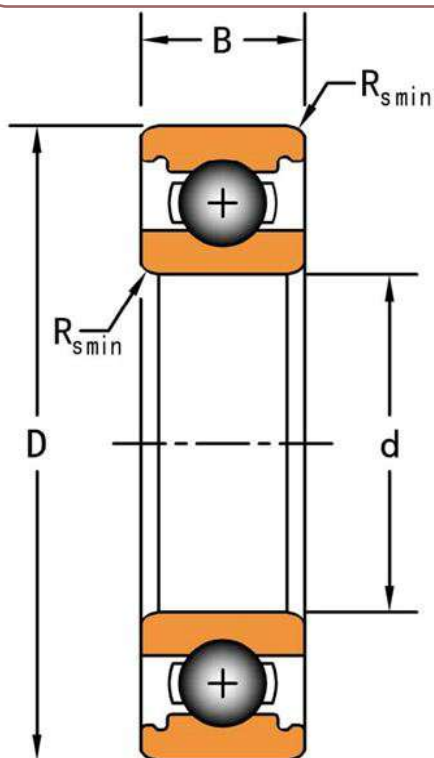
1	d	20 mm	Bore diameter
2	D	42 mm	Outside diameter
3	B	12 mm	Width

Basic Load Ratings

1	Static Load	9400 N
2	Dynamic	5000 N

Performance

1	Grease Speed	17000 r/min
2	Oil speed	25000 r/min



Dimensions

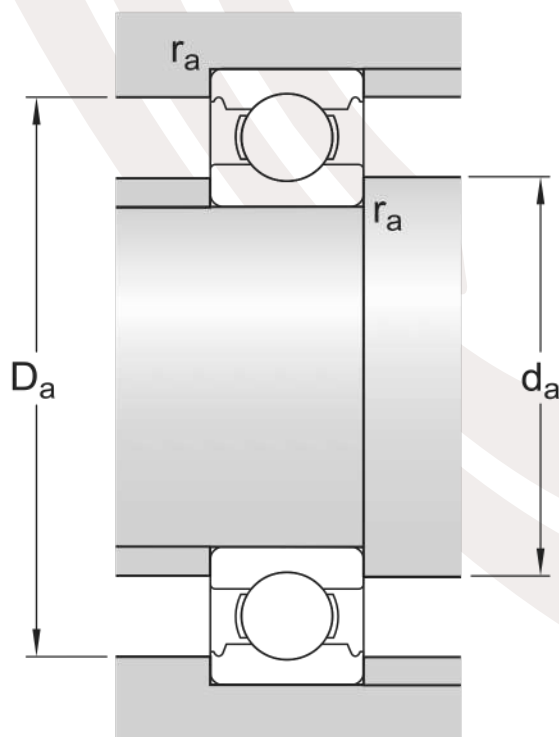
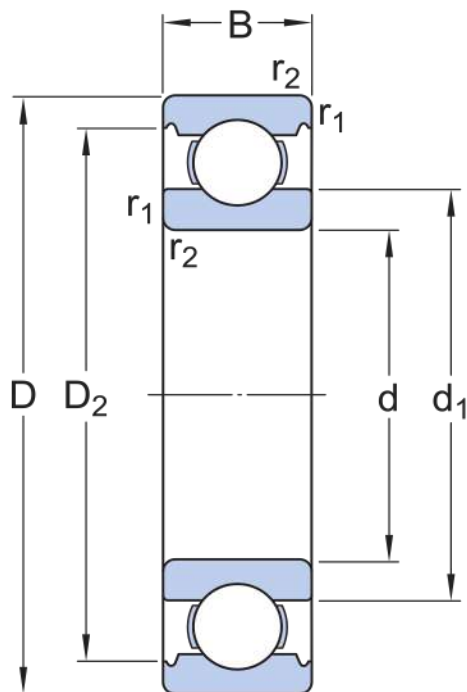
1	d	25 mm	Bore diameter
2	D	47 mm	Outside diameter
3	B	12 mm	Width

Basic Load Ratings

1	Static Load	5800 N
2	Dynamic	10100 N

Performance

1	Grease Speed	14000 r/min
2	Oil speed	21000 r/min



Calculation data

Basic dynamic load rating	C	16.8 kN
Basic static load rating	C ₀	10.2 kN
Fatigue load limit	P _u	0.44 kN
Reference speed		24000 r/min
Limiting speed		15000 r/min
Minimum Load	Kr	0.025
Calculation Factor	f ₀	15
Dimension tolerances		P6
Radial run out		P6

Basic Load Ratings

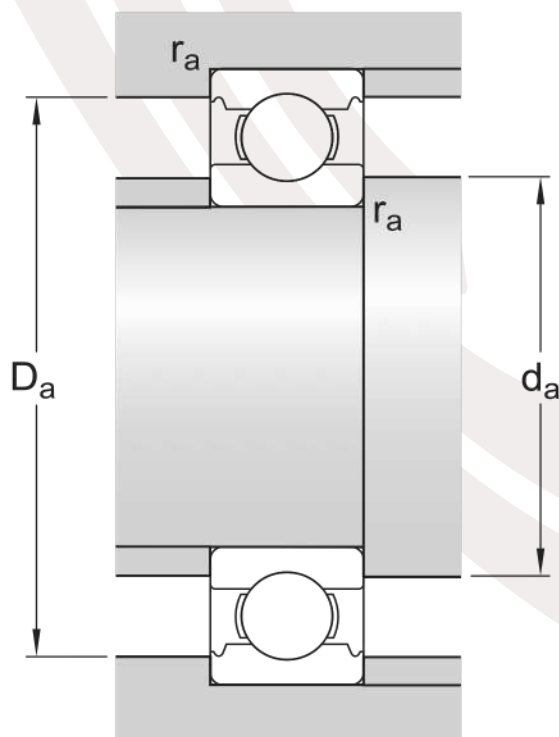
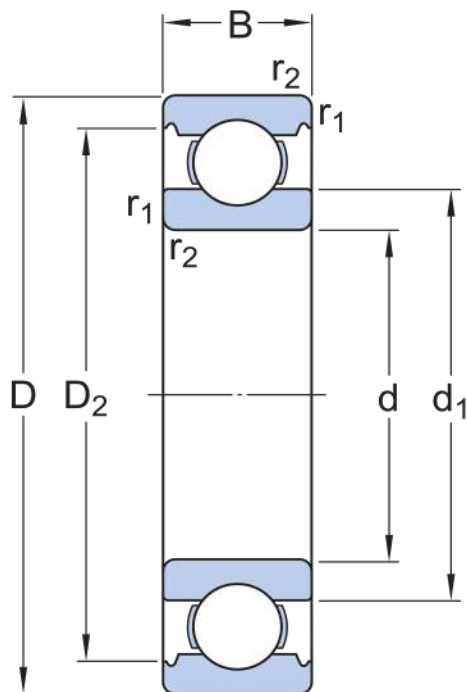
1	Dynamic	16800 N
2	Static Load	10200 N

Dimensions

1	d	35 mm	Bore diameter
2	D	62 mm	Outside diameter
3	B	14 mm	Width
4	d ₁	≈43.5 mm	Shoulder diameter
5	D ₂	≈55.61 mm	Recess diameter
6	r _{1,2}	min.1 mm	Chamfer dimension

Abutment dimensions

9	d _a	min.39.6 mm	Diameter of shaft abutment
10	D _a	max.57.4 mm	Diameter of housing abutment
11	r _a	max.1 mm	Radius of fillet



Calculation data

Basic dynamic load rating	C	17.8 kN
Basic static load rating	C ₀	11.6 kN
Fatigue load limit	P _u	0.49 kN
Reference speed		22000 r/min
Limiting speed		14000 r/min
Minimum Load	Kr	0.025
Calculation Factor	f ₀	14.7
Dimension tolerances		P6
Radial run out		P6

Basic Load Ratings

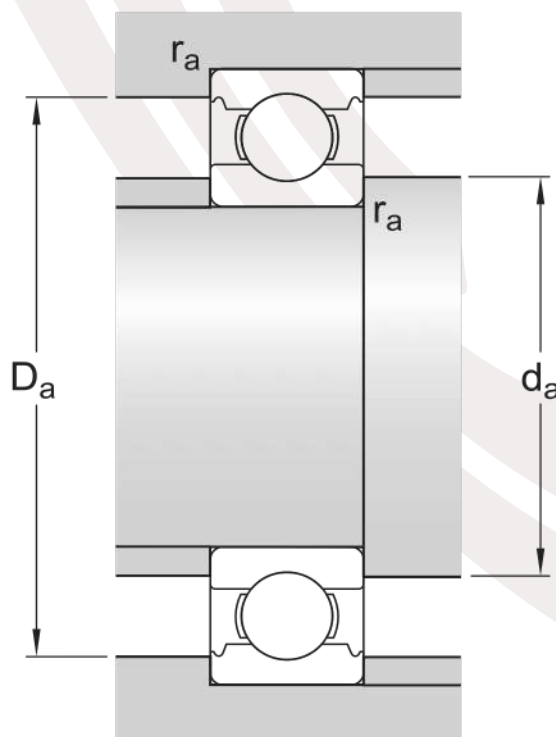
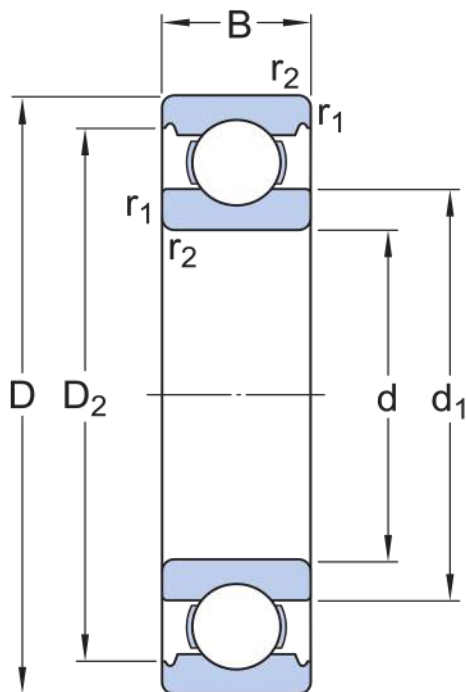
1	Static Load	11600 N
2	Dynamic	17800 N

Dimensions

1	d	40 mm	Bore diameter
2	D	68 mm	Outside diameter
3	B	15 mm	Width
4	d ₁	≈ 49.25 mm	Shoulder diameter
5	D ₂	≈ 61.1 mm	Recess diameter
6	r _{1,2}	min.1 mm	Chamfer dimension

Abutment dimensions

9	d _a	min.44.6 mm	Diameter of shaft abutment
10	D _a	max.63.4 mm	Diameter of housing abutment
11	r _a	max.1 mm	Radius of fillet



Calculation data

Basic dynamic load rating	C	22.9 kN
Basic static load rating	C ₀	16 kN
Fatigue load limit	P _u	0.71 kN
Reference speed		18000 r/min
Limiting speed		11000 r/min
Minimum Load	Kr	0.025
Calculation Factor	f ₀	14.7
Dimension tolerances		P6
Radial run out		P6

Basic Load Ratings

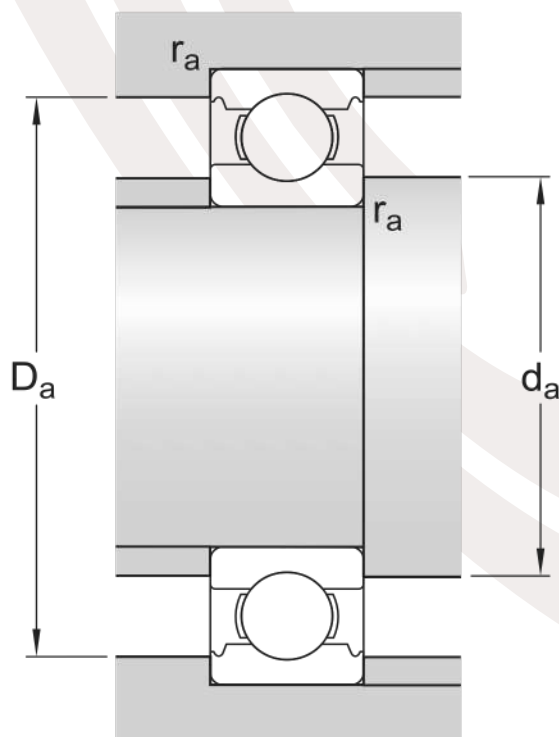
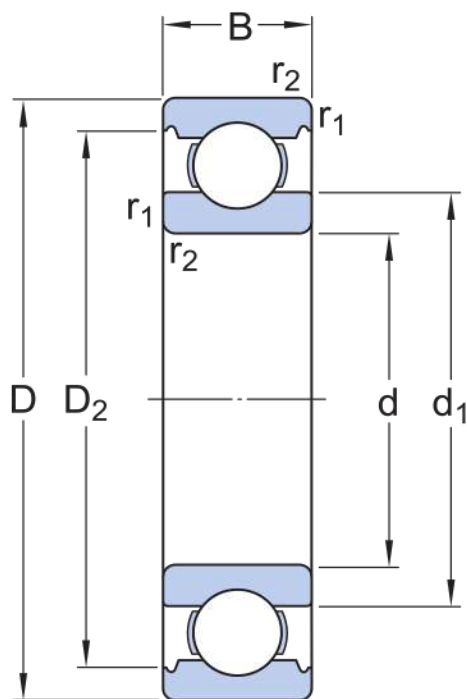
1	Dynamic	22900 N
2	Static Load	16000 N

Dimensions

1	d	50 mm	Bore diameter
2	D	80 mm	Outside diameter
3	B	16 mm	Width
4	d ₁	≈ 59.75 mm	Shoulder diameter
5	D ₂	≈ 72.8 mm	Recess diameter
6	r _{1,2}	min.1 mm	Chamfer dimension

Abutment dimensions

9	d _a	min.54.6 mm	Diameter of shaft abutment
10	D _a	max.75.4 mm	Diameter of housing abutment
11	r _a	max.1 mm	Radius of fillet



Calculation data

Basic dynamic load rating	C	29.6 kN
Basic static load rating	C_0	21.2 kN
Fatigue load limit	P_u	0.9 kN
Reference speed		16000 r/min
Limiting speed		10000 r/min
Minimum Load	Kr	0.025
Calculation Factor	f_0	15.4
Dimension tolerances		P6
Radial run out		P6

Basic Load Ratings

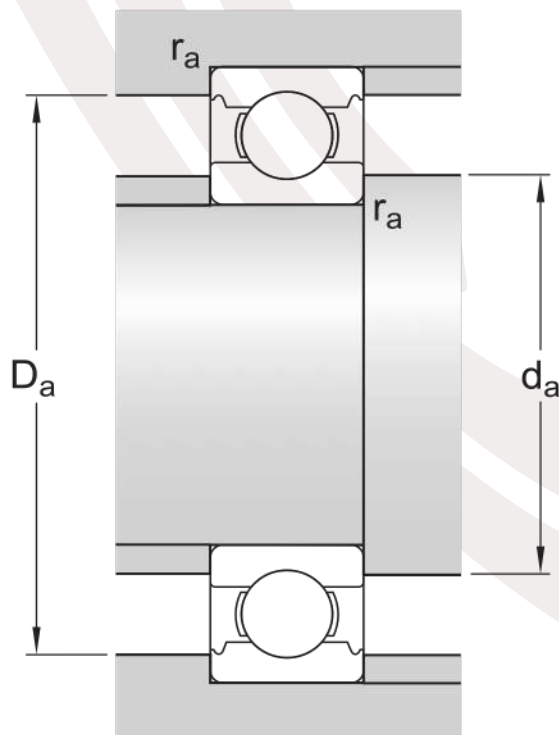
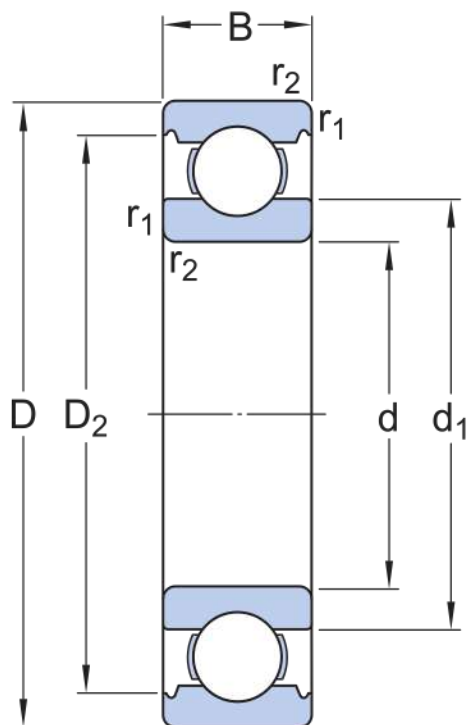
1	Dynamic	29600 N
2	Static Load	21000 N

Dimensions

1	d	55 mm	Bore diameter
2	D	90 mm	Outside diameter
3	B	18 mm	Width
4	d_1	≈ 66.3 mm	Shoulder diameter
5	D_2	≈ 81.5 mm	Recess diameter
6	$r_{1,2}$	min1.1 mm	Chamfer dimension

Abutment dimensions

9	d_a	min.61 mm	Diameter of shaft abutment
10	D_a	max.84 mm	Diameter of housing abutment
11	r_a	max.1 mm	Radius of fillet



Calculation data

Basic dynamic load rating	C	32.5 kN
Basic static load rating	C_0	19 kN
Fatigue load limit	P_u	0.8 kN
Reference speed		18000 r/min
Limiting speed		11000 r/min
Minimum Load	K_r	0.025
Calculation Factor	f_0	13.8
Dimension tolerances		P6
Radial run out		P6

Basic Load Ratings

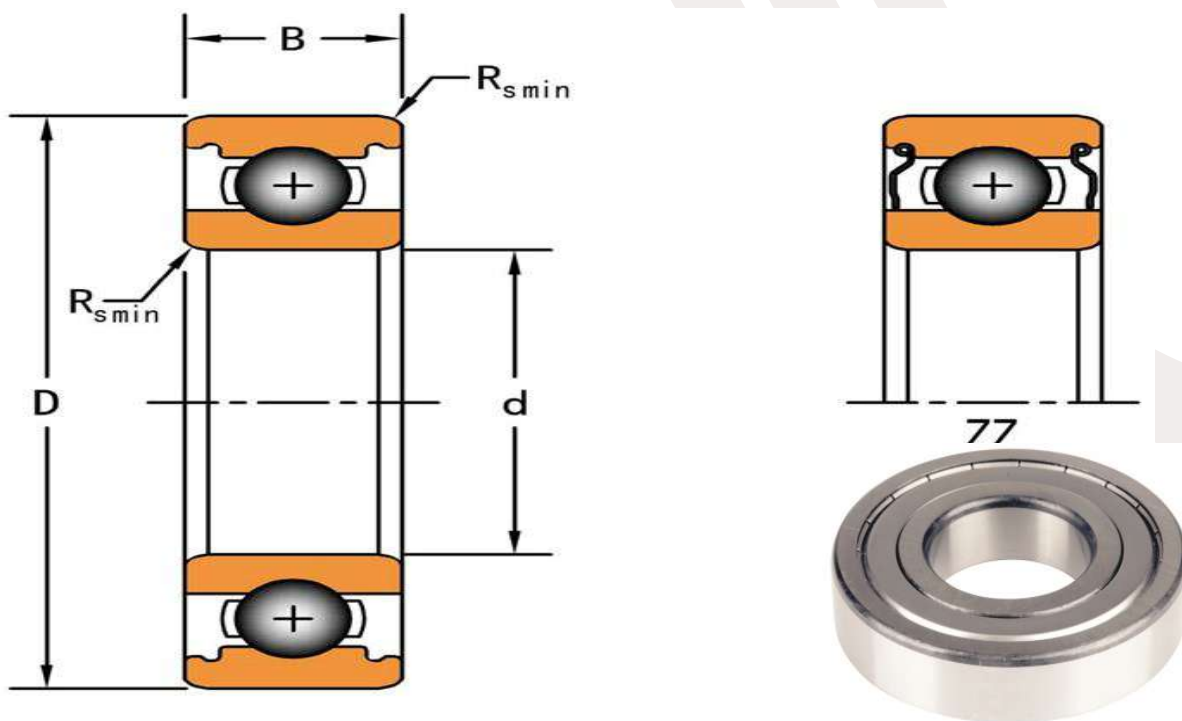
1	Dynamic	32500 N
2	Static Load	19000 N

Dimensions

1	d	40 mm	Bore diameter
2	D	80 mm	Outside diameter
3	B	18 mm	Width
4	d_1	≈ 52.6 mm	Shoulder diameter
5	D_2	≈ 69.8 mm	Recess diameter
6	$r_{1,2}$	min.1.1 mm	Chamfer dimension

Abutment dimensions

9	d_a	min.47 mm	Diameter of shaft abutment
10	D_a	max.73 mm	Diameter of housing abutment
11	r_a	max.1 mm	Radius of fillet



Dimensions

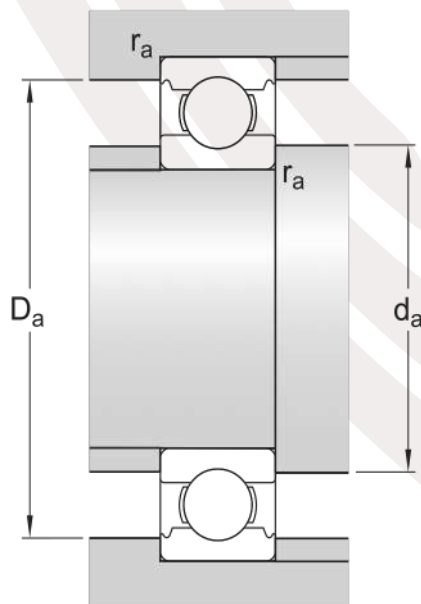
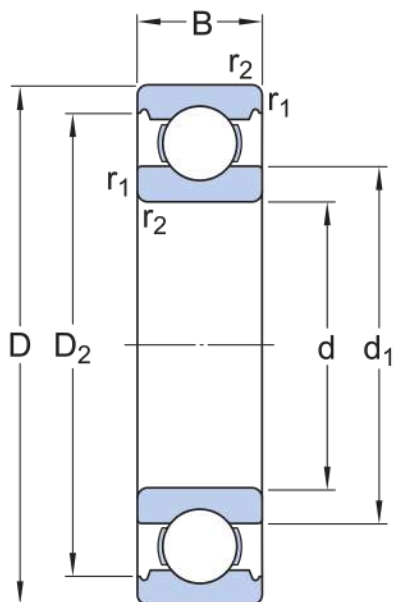
1	d	25 mm	Bore diameter
2	D	62 mm	Outside diameter
3	B	17 mm	Width

Basic Load Ratings

1	Static Load	11200 N
2	Dynamic	20600 N

Performance

1	Grease Speed	12000 r/min
2	Oil speed	17000 r/min



Calculation data

Basic dynamic load rating	C	55.3 kN
Basic static load rating	C_0	31.5 kN
Fatigue load limit	P_u	1.34 kN
Reference speed		15000 r/min
Limiting speed		9500 r/min
Minimum Load	Kr	0.03
Calculation Factor	f_0	13
Dimension tolerances		P6
Radial run out		P6

Basic Load Ratings

1	Dynamic	55300 N
2	Static Load	31500 N

Dimensions

1	d	45 mm	Bore diameter
2	D	100 mm	Outside diameter
3	B	25 mm	Width
4	d_1	≈ 62.18 mm	Shoulder diameter
5	D_2	≈ 86.7 mm	Recess diameter
6	$r_{1,2}$	min.1.5 mm	Chamfer dimension

Abutment dimensions

9	d_a	min.54 mm	Diameter of shaft abutment
10	D_a	max.91 mm	Diameter of housing abutment
11	r_a	max.1.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	
Basic static load rating	C ₀	
Fatigue load limit	P _u	
Reference speed		
Limiting speed		
Limiting value	e	
Axial load factor	Y ₁	
Axial load factor	Y ₂	
Axial load factor	Y ₀	

Basic Load Ratings

1	Static Load	
2	Dynamic	
3	Limiting speed	

Dimensions

1	d		Bore diameter
2	D		Outside diameter
3	B		Width
4	d ₂		Shoulder diameter of inner ring
5	D ₁		Shoulder/recess diameter of outer ring
6	b		Width of lubrication groove
7	K		Diameter of lubrication hole
8	r _{1,2}		Chamfer dimension

Abutment dimensions

9	d _a		Diameter of shaft abutment
10	D _a		Diameter of housing abutment
11	r _a		Radius of fillet

Calculation data

Basic dynamic load rating	C	
Basic static load rating	C ₀	
Fatigue load limit	P _u	
Reference speed		
Limiting speed		
Limiting value	e	
Axial load factor	Y ₁	
Axial load factor	Y ₂	
Axial load factor	Y ₀	

Basic Load Ratings

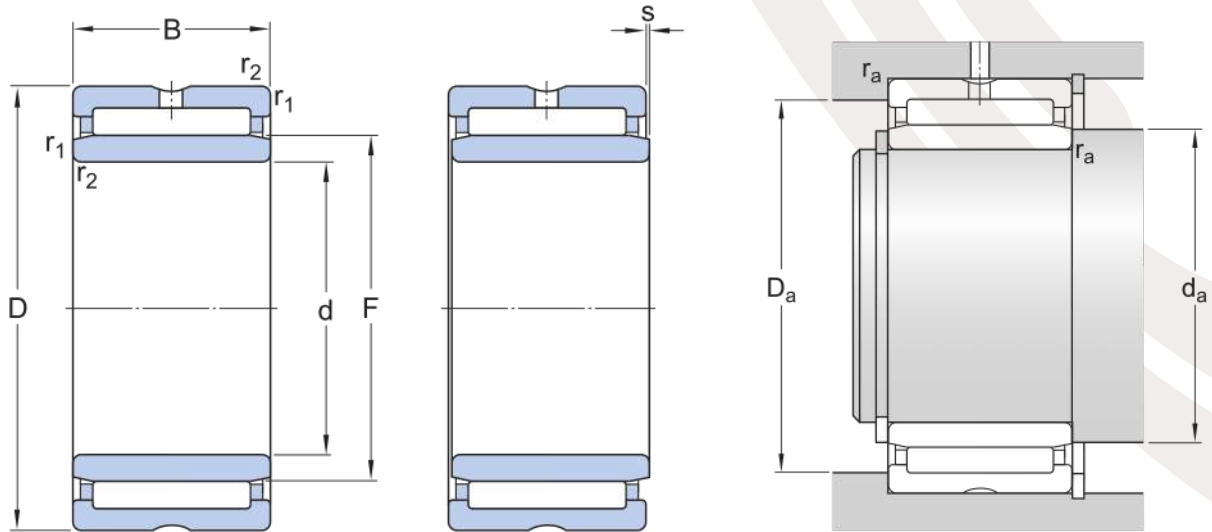
1	Static Load	
2	Dynamic	
3	Limiting speed	

Dimensions

1	d	Bore diameter
2	D	Outside diameter
3	B	Width
4	d ₂	Shoulder diameter of inner ring
5	D ₁	Shoulder/recess diameter of outer ring
6	b	Width of lubrication groove
7	K	Diameter of lubrication hole
8	r _{1,2}	Chamfer dimension

Abutment dimensions

9	d _a	Diameter of shaft abutment
10	D _a	Diameter of housing abutment
11	r _a	Radius of fillet



Calculation data

Basic dynamic load rating	C	57.3 kN
Basic static load rating	C ₀	106 kN
Fatigue load limit	P _u	13.2 kN
Reference speed		6300 r/min
Limiting speed		7000 r/min
Material, bearing		Bearing steel
Relubrication feature		With
Sealing		Without
Tolerance class		Normal

Basic Load Ratings

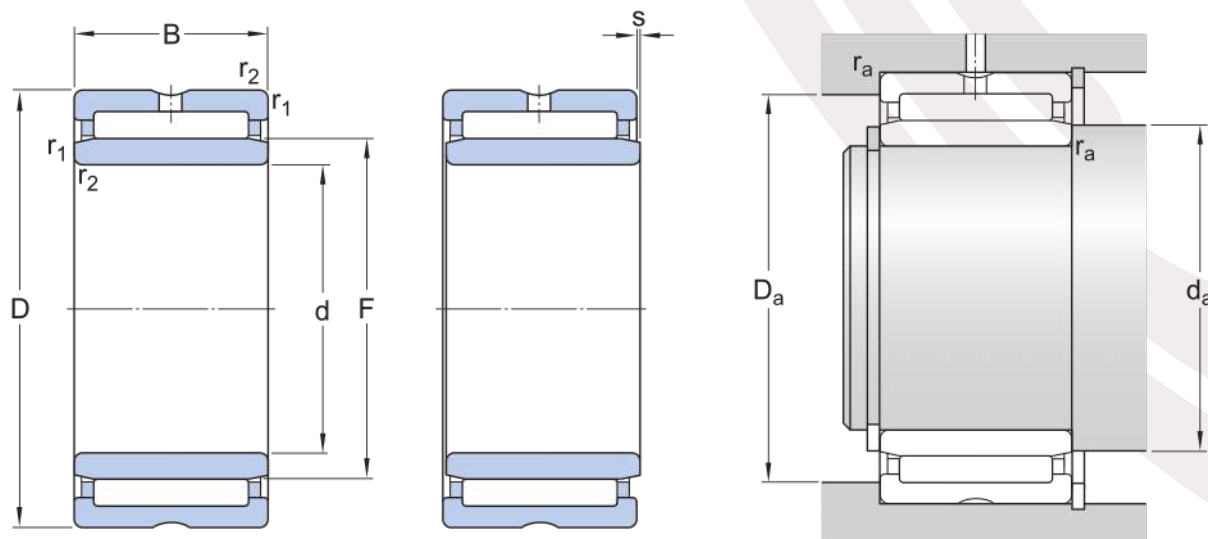
1	Static Load	106000 N
2	Dynamic	57300 N

Dimensions

1	d	55 mm	Bore diameter
2	D	80 mm	Outside diameter
3	B	25 mm	Width
4	F	≈ 63 mm	Raceway diameter
5	r _{1,2}	min.1. mm	Chamfer diameter
6	s	max.1.5. mm	Chamfer dimension

Abutment dimensions

9	d _a	min.60 mm	Diameter of shaft abutment
10	D _a	max.75 mm	Diameter of housing abutment
11	r _a	max.1 mm	Radius of fillet



Calculation data

Basic dynamic load rating	C	
Basic static load rating	C_0	
Fatigue load limit	P_u	
Reference speed		
Limiting speed		
Material, bearing		
Relubrication feature		
Sealing		
Tolerance class		

Basic Load Ratings

1	Static Load	
2	Dynamic	

Dimensions

1	d		Bore diameter
2	D		Outside diameter
3	B		Width
4	F		Raceway diameter
5	$r_{1,2}$		Chamfer diameter
6	s		Chamfer dimension

Abutment dimensions

9	d_a		Diameter of shaft abutment
10	D_a		Diameter of housing abutment
11	r_a		Radius of fillet

Calculation data

Basic dynamic load rating	C	
Basic static load rating	C ₀	
Fatigue load limit	P _u	
Reference speed		
Limiting speed		
Limiting value	e	
Axial load factor	Y ₁	
Axial load factor	Y ₂	
Axial load factor	Y ₀	

Basic Load Ratings

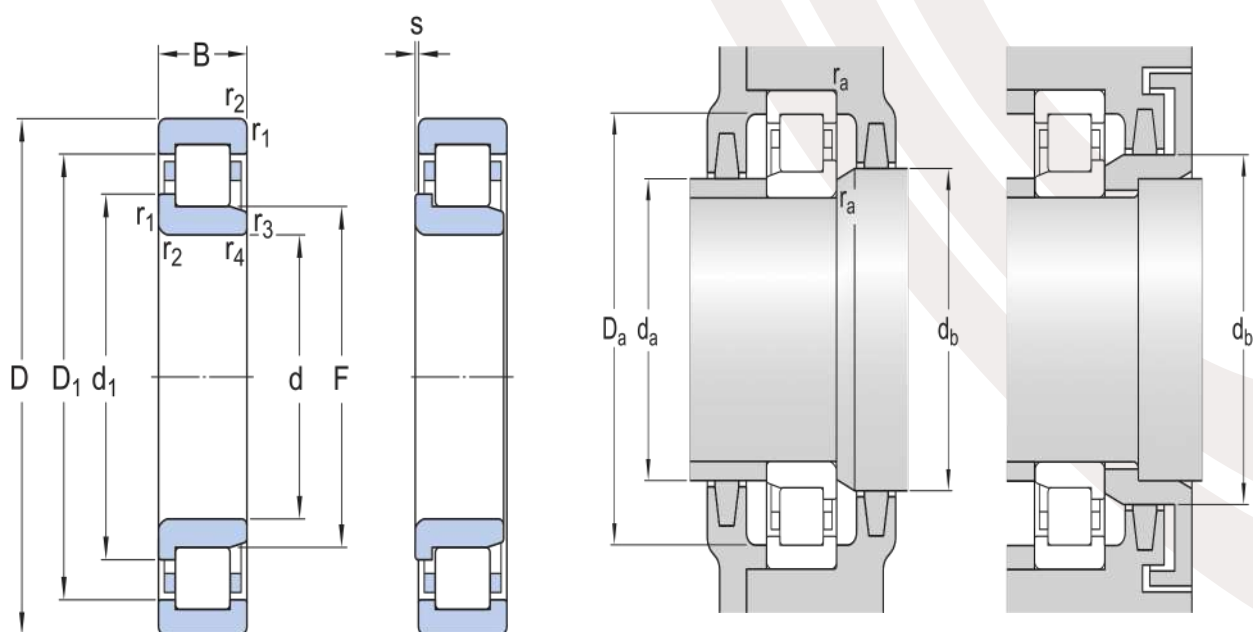
1	Static Load	
2	Dynamic	
3	Limiting speed	

Dimensions

1	d		Bore diameter
2	D		Outside diameter
3	B		Width
4	d ₂		Shoulder diameter of inner ring
5	D ₁		Shoulder/recess diameter of outer ring
6	b		Width of lubrication groove
7	K		Diameter of lubrication hole
8	r _{1,2}		Chamfer dimension

Abutment dimensions

9	d _a		Diameter of shaft abutment
10	D _a		Diameter of housing abutment
11	r _a		Radius of fillet



Calculation data

Basic dynamic load rating	C	112 kN
Basic static load rating	C ₀	100 kN
Fatigue load limit	P _u	12.9 kN
Reference speed		7 500 r/min
Limiting speed		8 500 r/min
Minimum load factor	k _r	0.15
Limiting value	e	0.2
Axial load factor	Y	0.6
Mass		1 Kg

Dimensions

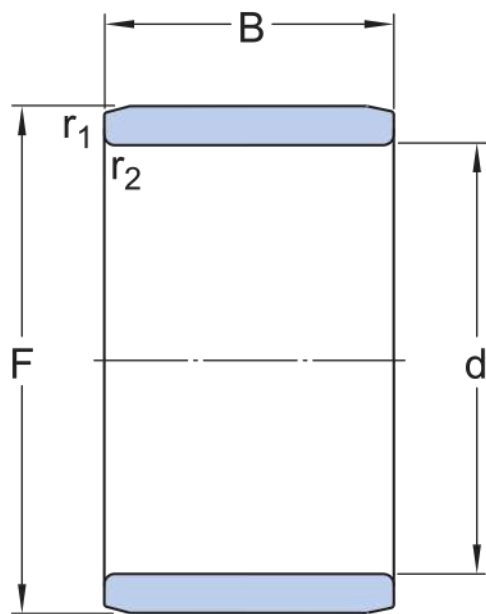
1	d	45 mm	Bore diameter
2	D	100 mm	Outside diameter
3	B	25 mm	Width
4	d ₁	≈64.4 mm	Shoulder diameter of inner ring
5	D ₁	≈83.2 mm	Shoulder diameter of outer ring
6	F	58.5 mm	Raceway diameter of inner ring
7	r _{1,2}	min.1.5 mm	Chamfer dimension
8	r _{3,4}	min.1.5 mm	Chamfer dimension
9	s	max.1.7 mm	Permissible axial displacement

Abutment dimensions

1	d _a	min.54 mm	Diameter of spacer sleeve
2	d _a	max.56 mm	Diameter of spacer sleeve
3	d _b	min.67 mm	Diameter of shaft abutment

Abutment dimensions

4	D _a	max.91.4 mm
5	r _a	max.1.5 mm
6	d _a	min.54 mm

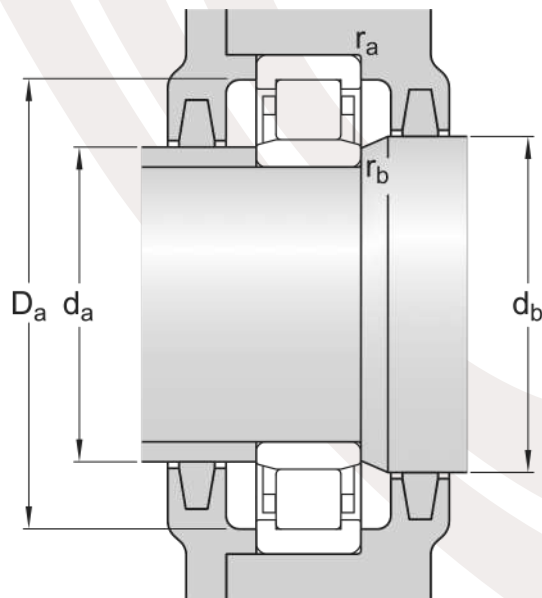
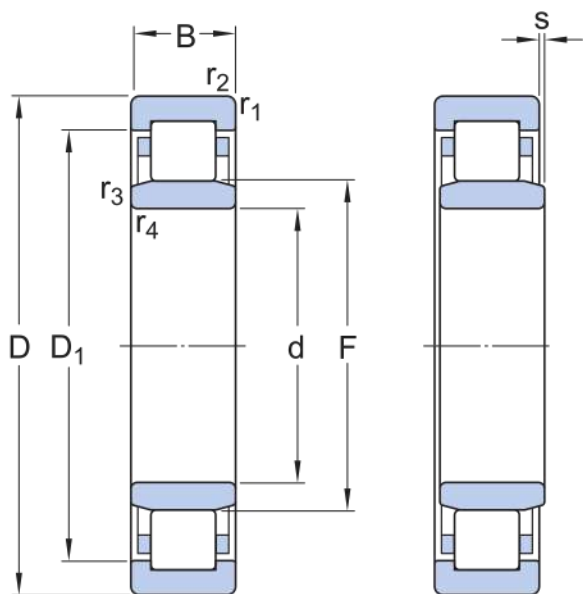


Dimensions

1	d	35 mm	Bore diameter
2	F	43 mm	Raceway diameter
3	B	22 mm	Width
4	r, r _{1,2}	min.0.6 mm	Chamfer dimension inner ring
5	d	35 mm	Bore diameter

Calculation data

Coating	Without
Material	Bearing steel
Radial internal clearance	CN
Relubrication feature	Without
Special raceway feature	None
Tolerance class	Normal



Calculation data

Basic dynamic load rating	C	112 kN
Basic static load rating	C_0	100 kN
Fatigue load limit	P_u	12.9 kN
Reference speed		7 500 r/min
Limiting speed		8 500 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Axial load factor	Y	0.6
Mass		1 Kg

Dimensions

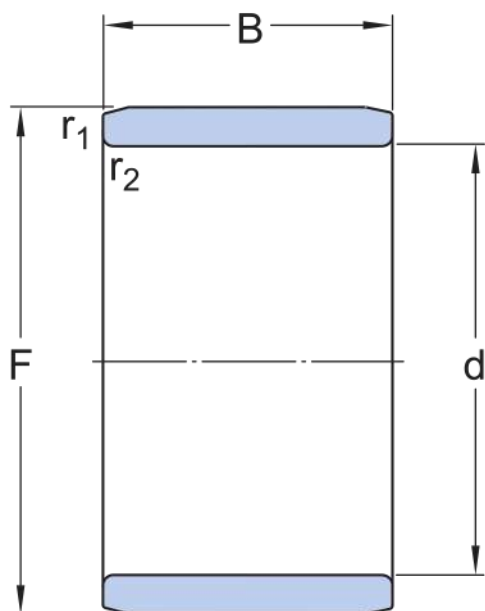
1	d	45 mm	Bore diameter
2	D	100 mm	Outside diameter
3	B	25 mm	Width
4	D_1	≈ 83.2 mm	Shoulder diameter of outer ring
5	F	58.5 mm	Raceway diameter of inner ring
6	$r_{1,2}$	min.1.5 mm	Chamfer dimension
7	$r_{3,4}$	min.1.5 mm	Chamfer dimension
8	s	max.1.7 mm	Permissible axial displacement

Abutment dimensions

1	d_a	min.54 mm	Diameter of spacer sleeve
2	d_a	max.56 mm	Diameter of spacer sleeve
3	d_b	min.60 mm	Diameter of shaft abutment

Abutment dimensions

4	D_a	max.91.4 mm
5	r_a	max.1.5 mm
6	r_b	max.1.5 mm

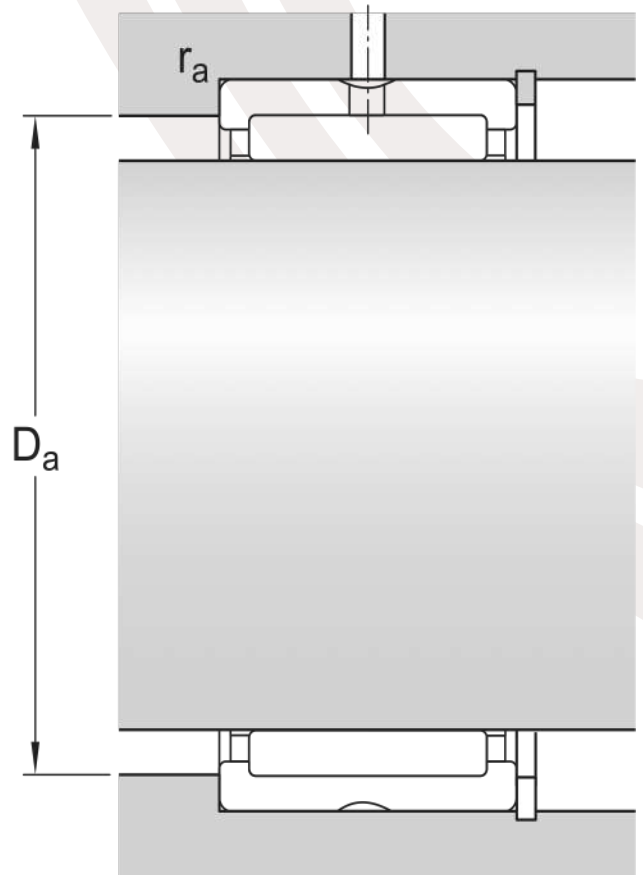
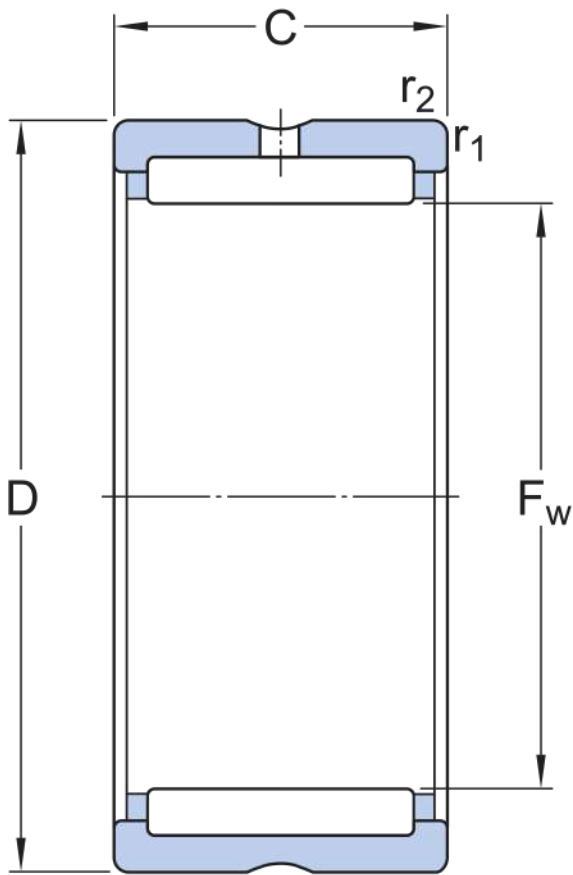


Dimensions

1	d	35 mm	Bore diameter
2	F	43 mm	Raceway diameter
3	B	22 mm	Width
4	$r, r_{1,2}$	min.0.6 mm	Chamfer dimension inner ring
5	d	35 mm	Bore diameter

Calculation data

Coating	Without
Material	Bearing steel
Radial internal clearance	CN
Relubrication feature	Without
Special raceway feature	None
Tolerance class	Normal



Calculation data			Dimensions			
Basic dynamic load rating	C	17.2 kN	1	F_w	20 mm	Diameter under rollers
Basic static load rating	C_0	27 kN	2	D	28 mm	Outside diameter
Fatigue load limit	P_u	3.35 kN	3	C	23 mm	Width
Reference speed		19 000 r/min	4	$r_{1,2}$	min.0.3 m m	Chamfer dimension outer ring
Limiting speed		22 000 r/min	Abutment dimensions			
Mass		0.04 Kg	1	D_a	max.26 mm	Abutment diameter housing (with flanges)
			2	r_a	max.0.3 mm	Fillet radius
			3	D_a	max.26 mm	Abutment diameter housing (with flanges)

Calculation data

Basic dynamic load rating	C	17.2 kN
Basic static load rating	C ₀	27 kN
Fatigue load limit	P _u	3.35 kN
Reference speed		19 000 r/min
Limiting speed		22 000 r/min
Mass		0.04 Kg

Dimensions

1	F _w	20 mm	Diameter under rollers
2	D	28 mm	Outside diameter
3	C	23 mm	Width
4	r _{1,2}	min.0.3 m m	Chamfer dimension outer ring

Abutment dimensions

1	D _a	max.26 mm	Abutment diameter housing (with flanges)
2	r _a	max.0.3 mm	Fillet radius
3	D _a	max.26 mm	Abutment diameter housing (with flanges)

Calculation data

Basic dynamic load rating	C	17.2 kN
Basic static load rating	C ₀	27 kN
Fatigue load limit	P _u	3.35 kN
Reference speed		19 000 r/min
Limiting speed		22 000 r/min
Mass		0.04 Kg

Dimensions

1	F _w	20 mm	Diameter under rollers
2	D	28 mm	Outside diameter
3	C	23 mm	Width
4	r _{1,2}	min.0.3 m m	Chamfer dimension outer ring

Abutment dimensions

1	D _a	max.26 mm	Abutment diameter housing (with flanges)
2	r _a	max.0.3 mm	Fillet radius
3	D _a	max.26 mm	Abutment diameter housing (with flanges)



CONTACT US:

INDIA OFFICE

C.N.INDUSTRIAL PRODUCT

Office : 20, Vishala East Industrial Estate,
Kathwada G.I.D.C, Opp: Palm Hotel,
S.P.Ring Road, Kathwada – 382430.
Ahmedabad, Gujarat, India.

Contact For Export Inquiry.

Email : sales@cnip.in

Email : export@cnip.in

Mobile No : +91-9978334638

Web Site : www.cnip.in

FACTORY

C.N.INDUSTRIAL PRODUCT

Kathwada Bakrol Highway,
Kubadthal Road, Ahmedabad,
Gujarat, India.



LIAISON OFFICE

EAST AFRICA : TANZANIA

Mr,Dushyant Bhatt (Representative)

Email: dushyant@cnip.in

EAST AFRICA : UGANDA

Mr, Nalin Patel (Representative)

Email: nalin.patel@cnip.in

EAST AFRICA : Kenya, Ethiopia, sudan

Mr, Satyajit Nath (Representative)

Email: kenya@cnip.in

WEST AFRICA : Cameroon, Nigeria, Chad

Mr. Ndiyum Yai (Representative)

Email id : cameroon@cnip.in

C.N.INDUSTRIAL PRODUCT

(AN ISO : 9001-2015, 14001:2015 & 45001:2018)