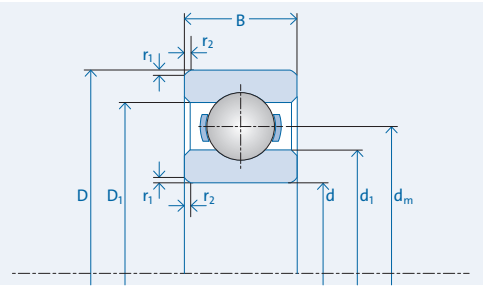
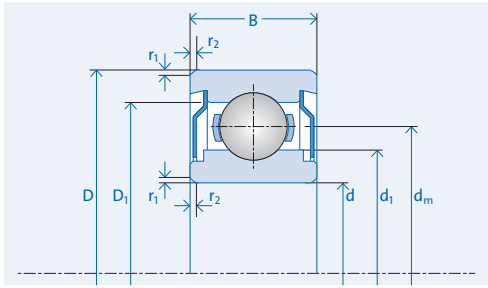
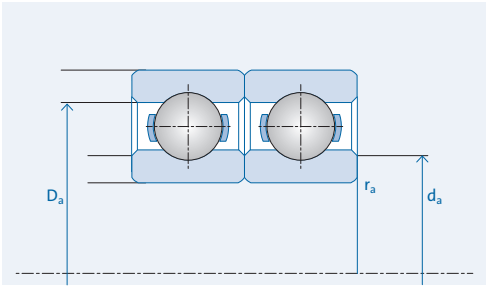


Bearing data
Bore diameter 5 to 8 mm

Symbol explanations







Boundary dimensions

d	[mm]	Bore diameter
D	[mm]	Outer diameter
B	[mm]	Width of single bearing

Balls

d_m	[mm]	Pitch circle diameter
D_W	[mm]	Ball diameter
Z	pieces	Number of balls

Dimensions

d_1	[mm]	Outer diameter of inner ring
D_1	[mm]	Inner diameter of outer ring
$r_{1,2}$	[mm]	Chamfer (min)

Abutment dimensions

$r_{a\,max}$	[mm]	Undercut of associated component
$d_{a\,min}$	[mm]	Abutment diameter inner ring
$D_{a\,max}$	[mm]	Abutment diameter outer ring

m	[kg]	Bearing weight

Load ratings

C	[N]	Dynamic load rating
C_0	[N]	Static load rating, steel balls
$C_{0\,HY}$	[N]	Static load rating, Si_3N_4 balls

n_{grease}	[1/min]	Speed with grease lubrication and sheet steel cage

Boundary dimensions				Balls			Dimensions			Abutment dimensions			Weight	Load rating			Speed value	
Designation	d	D	B	d_m	D_W	Z	d_1	D_1	$r_{1,2}$	$r_{a\,max}$	d_{amin}	$D_{a\,max}$	m	C	C_0	$C_{0\,HY}$	n_{grease}	Designation
5 mm																		**5 mm**
625	5	16	5	10.0	3.175	6	7.65	12.50	0.3	0.3	7.5	13.5	0.005	1760	615	435	46000	625
6 mm																		**6 mm**
626	6	19	6	13.3	3.175	8	10.70	15.80	0.3	0.3	9.0	16.5	0.008	2280	950	670	43000	626
7 mm																		**7 mm**
607	7	19	6	13.3	3.175	8	10.70	15.80	0.3	0.3	9.5	16.5	0. 008	2280	950	670	43000	607
627	7	22	7	14.7	3.969	7	11.80	17.60	0.3	0.3	10.0	19.0	0.012	2950	1160	810	40500	627
8 mm																		**8 mm**
608	8	22	7	14.7	3.969	7	11.80	17.60	0.3	0.3	10.5	19.0	0.012	2950	1160	810	40500	608
608 X - 2Z	8	22	10,312	14.7	3.969	7	10.50	19.00	0.3	0.3	10.5	19.0	0.014	2950	1160	810	40500	608 X - 2Z