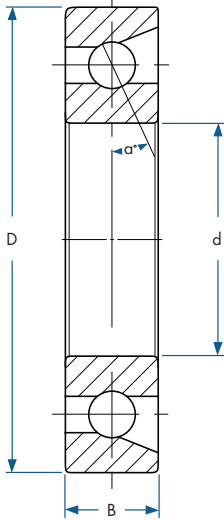


## 7200 Series – Angular Contact



Contact Angle ( $\alpha$ ) – the angle between the radial plane and a line joining the two contact points of the inner and outer race.

Angular contact bearings have races with high shoulders allowing the balls to operate at higher contact angles giving them increased one directional thrust capacity over the same size conrad style (deep groove) bearing. Greater clearances between the balls and the raceways allows for higher contact angles.

Standard contact angles:

B – 40°

C – 15°

Bearing Size	Dimensions (mm)			Load Rating (lbs)		Limiting Speed (RPM)	
				Dynamic	Static	Grease	Oil
	d	D	B	Cr	Cor		
7200 B	10	30	9	1,300	600	26,000	34,000
7201 B	12	32	10	1,550	720	20,000	27,000
7202 B	15	35	11	1,780	950	18,000	24,000
7203 B	17	40	12	2,430	1,240	16,000	20,000
7204 B	20	47	14	2,990	1,740	13,000	17,000
7205 B	25	52	15	3,150	1,960	12,000	15,000
7206 B	30	62	16	4,370	2,820	9,600	13,000
7207 B	35	72	17	5,760	3,830	8,300	11,000
7208 B	40	80	18	6,880	4,790	7,500	10,000
7209 B	45	85	19	7,720	5,470	7,000	9,400
7210 B	50	90	20	8,030	6,010	6,400	8,500
7211 B	55	100	21	9,920	7,600	5,700	7,600
7212 B	60	110	22	12,010	9,360	5,100	6,900
7213 B	65	120	23	13,700	11,090	4,800	6,400
7214 B	70	125	24	14,210	11,380	4,600	6,100
7215 B	75	130	25	16,120	13,340	4,300	5,800
7216 B	80	140	26	17,340	14,620	4,000	5,400
7217 B	85	150	28	20,060	17,090	3,800	5,000
7218 B	90	160	30	22,940	19,790	3,500	4,700
7219 B	95	170	32	24,960	21,140	3,300	4,400
7220 B	100	180	34	27,880	24,060	3,100	4,200
7221 B	105	190	36	30,350	27,210	2,900	3,900
7222 B	110	200	38	33,050	30,350	2,800	3,700
7224 B	120	215	40	35,520	33,950	2,600	3,400
7226 B	130	230	40	39,800	40,470	2,400	3,200
7228 B	140	250	42	44,290	47,890	2,200	2,900
7230 B	150	270	45	50,590	57,110	2,000	2,700

B = 40° contact angle