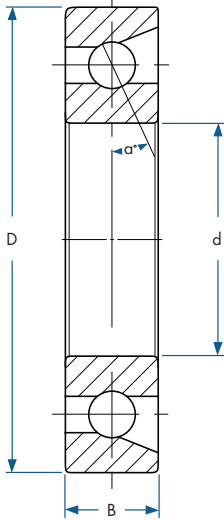


## 7300 Series – Angular Contact



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		
7301 B	12	37	12	2,360	1,100	19,000	25,000
7302 B	15	42	13	2,790	1,460	16,000	21,000
7303 B	17	47	14	3,170	1,820	15,000	19,000
7304 B	20	52	15	3,650	1,960	13,000	17,000
7305 B	25	62	17	5,150	2,990	10,000	14,000
7306 B	30	72	19	6,210	3,920	8,700	12,000
7307 B	35	80	21	7,310	4,550	7,700	10,000
7308 B	40	90	23	8,930	5,670	6,900	9,200
7309 B	45	100	25	11,380	7,670	6,200	8,200
7310 B	50	110	27	14,480	9,960	5,500	7,300
7311 B	55	120	29	16,710	11,690	5,000	6,700
7312 B	60	130	31	20,240	14,800	4,600	6,200
7313 B	65	140	33	21,610	15,580	4,300	5,800
7314 B	70	150	35	24,280	17,740	4,000	5,400
7315 B	75	160	37	26,530	20,060	3,800	5,000
7316 B	80	170	39	28,560	22,490	3,500	4,700
7317 B	85	180	41	30,800	25,180	3,300	4,400
7318 B	90	190	43	33,280	27,880	3,100	4,200
7319 B	95	200	45	35,520	30,800	3,000	4,000
7320 B	100	215	47	37,770	33,280	2,700	3,600
7321 B	105	225	49	42,940	39,800	2,600	3,500
7322 B	110	240	50	47,890	46,760	2,400	3,200

B = 40° contact angle