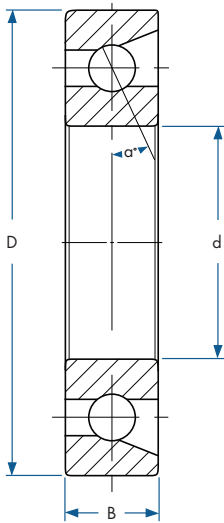


7400 Series – Angular Contact



Contact Angle (α) – 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 (lbf)		Limiting Speed (RPM)	
				Dynamic	Static	Grease	Oil
	d	D	B	Cr	Cor		
7405 B	25	80	21	9015	5148	7300	10000
7406 B	30	90	23	11578	6789	6500	8900
7407 B	35	100	25	14433	8655	5700	7900
7408 B	40	110	27	14590	9442	5200	7200
7409 B	45	120	29	17872	12207	4800	6600
7410 B	50	130	31	20278	13601	4400	6000
7411 B	55	140	33	24279	17130	4000	5500
7412 B	60	150	35	26820	19334	3700	5100
7413 B	65	160	37	28955	21672	3500	4800
7414 B	70	180	42	33317	26550	3100	4300
7415 B	75	190	45	37790	31406	2900	4000
7417 B	85	210	52	42511	37476	2600	3600
7418 B	90	225	54	47322	43501	2500	3400
7420 B	100	265	60	59957	60586	2400	3200