

# Precision Tolerances & Recommended Fits for Ultra-Slim Bearings

All dimensions in millimeters

Kaydon class 1 for A, C, X type bearings

Bearing Size (mm Series)	① Bore and O.D. Tolerances Nominal +0.000	② Radial and Axial Race Runouts		Rotating Shaft or Duplex DF Mounting		Stationary Shaft or Duplex DB Mounting		Bearing Diametral Clearance*, Type X & C Before Installation	
		Inner Race	Outer Race	Shaft Diameter Nominal	Housing Bore Nominal	Shaft Diameter Nominal	Housing Bore Nominal		
035	-0.013	0.010	0.010	35 +0.013/-0.000	41 +0.013/-0.000	34.987 +0.000/-0.013	40.987 +0.000/-0.013	0.030	0.046
060	-0.013	0.013	0.013	60 +0.013/-0.000	66 +0.013/-0.000	59.987 +0.000/-0.013	65.987 +0.000/-0.013	0.030	0.046
070	-0.013	0.015	0.015	70 +0.013/-0.000	76 +0.013/-0.000	69.987 +0.000/-0.013	75.987 +0.000/-0.013	0.030	0.046
074	-0.013	0.015	0.015	74 +0.013/-0.000	80 +0.013/-0.000	73.987 +0.000/-0.013	79.987 +0.000/-0.013	0.030	0.046
080	-0.013	0.015	0.015	80 +0.013/-0.000	86 +0.013/-0.000	79.987 +0.000/-0.013	85.987 +0.000/-0.013	0.030	0.046
090	-0.013	0.015	0.015	90 +0.013/-0.000	96 +0.013/-0.000	89.987 +0.000/-0.013	95.987 +0.000/-0.013	0.030	0.046
100	-0.013	0.015	0.015	100 +0.013/-0.000	106 +0.013/-0.000	99.987 +0.000/-0.013	105.987 +0.000/-0.013	0.030	0.046
110	-0.013	0.020	0.020	110 +0.013/-0.000	116 +0.013/-0.000	109.987 +0.000/-0.013	115.987 +0.000/-0.013	0.030	0.046
120	-0.013	0.020	0.020	120 +0.013/-0.000	126 +0.013/-0.000	119.987 +0.000/-0.013	125.987 +0.000/-0.013	0.030	0.046
130	-0.013	0.020	0.020	130 +0.013/-0.000	136 +0.013/-0.000	129.987 +0.000/-0.013	135.987 +0.000/-0.013	0.030	0.046
140	-0.013	0.025	0.025	140 +0.013/-0.000	146 +0.013/-0.000	139.987 +0.000/-0.013	145.987 +0.000/-0.013	0.030	0.046
150	-0.013	0.025	0.025	150 +0.013/-0.000	156 +0.013/-0.000	149.987 +0.000/-0.013	155.987 +0.000/-0.013	0.030	0.046
160	-0.013	0.025	0.025	160 +0.013/-0.000	166 +0.013/-0.000	159.987 +0.000/-0.013	165.987 +0.000/-0.013	0.030	0.046
170	-0.013	0.025	0.025	170 +0.013/-0.000	176 +0.013/-0.000	169.987 +0.000/-0.013	175.987 +0.000/-0.013	0.030	0.046

① Diameter tolerances apply to average dimensions. Due to the thin nature of these bearings, they cannot be measured with 2 point gauges.

② The runout values apply to individual bearing races.

\* Diametral clearance after installation theoretically can range rather widely if all contributing bearing, housing, and shaft tolerances are at either of their extremes. Diametral clearances shown do not apply to Type A (angular contact) bearings.

Race Width Tolerance-Single Type C, X, A Bearings: All sizes +.000 -.127

Listed shaft and housing diameters are for steel supports with standard bearing diametral clearance. Recommended shaft and housing diameters can change greatly based on orientation, temperature, speed, non-standard diametral clearances, and desired performance characteristics. Contact Kaydon for design assistance when required.

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