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INFORMATION SHEET

Miniature Bearing Clearance

The radial play (clearance) of a bearing is equal to the total radial displacement, in the median plane perpendicular to the bearing axis of the inner ring in relation to the outer ring, under the effect of a small measuring force.

Clearance is not a criterion of the quality of a bearing but if badly chosen or unfavourably influenced during mounting, it can adversely affect the operation and even reduce the working life of a bearing.

This table shows the basic radial clearances available for miniature bearings and applications for these clearances. Dimensions shown in microns μm 0.001mm and (1/10th's thou 0.0001").

MBA/ISO Code	Description	Minimum	Maximum	Applications
MC1	Tight	0 (0)	5 (2)	Radially loaded low backlash gear systems. Very low speed.
MC2		3 (1)	8 (3)	
MC3	Standard	5 (2)	10 (4)	Tape Guides, Synchros, Servo Motors, Low Speed Electric Motors and Gear Trains. Gyro Gimbals (Horizontal Axis).
MC34		5 (2)	13 (5)	
MC4		8 (3)	13 (5)	
MC5	Loose	13 (5)	20 (8)	High speed Electric Motors and Tape Guides. Provides some compensation for axial loading. Gyro Gimbals (Vertical Axis).
MC6		20 (8)	28 (11)	

For clearances of bearings over 10mm bore size please see our web site.

For more information

<http://www.minibearings.com.au/technical/bearings/>

