



**H.E. Supplies Pty Ltd**

**Hobby Supplies  
Engineering Supplies**

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**Abec Precision**

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## Abec Precision

### Miniature Bearings (Less than 10mm bore size)

This table shows the basic radial clearances available for miniature bearings and applications for these clearances. Dimensions shown in microns  $\mu\text{m}$  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).
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)	

### Bearings Over and equal to 10mm bore size

This table shows the basic radial clearances available for bearings over and including 10mm bore size. Dimensions shown in microns  $\mu\text{m}$  0.001mm.

		Min / Max Clearance					
		Bore Size Range					
MBA/ISO Code	Description	10mm	Over 10mm to 18mm	Over 18mm to 24mm	Over 24mm to 30mm	Over 30mm to 40mm	Over 40mm to 50mm
C2	Tight	0 / 7	0 / 9	0 / 10	1 / 11	1 / 11	1 / 11
CN (standard)	Standard	2 / 13	3 / 18	5 / 20	5 / 20	6 / 20	6 / 23
C3	Loose	8 / 23	11 / 25	13 / 28	13 / 28	15 / 33	18 / 36
C4		14 / 29	18 / 33	20 / 36	23 / 41	28 / 46	30 / 51
C5		20 / 37	25 / 45	28 / 48	30 / 53	40 / 64	45 / 73

