

2.MACHINE TOLERANCE:**A.HOUSING BORE.(D)**

(μm)

BORE mm	G7	H7	H8	J7
10-18	+24 +6	+18 -0	+27 -0	+10 -8
18-30	+28 +7	+21 -0	+33 -0	+12 -9
30-50	+34 +9	+25 -0	+39 -0	+14 -11
50-80	+40 +10	+30 -0	+46 -0	+18 -12
80-120	+42 +12	+35 -0	+54 -0	+22 -13
120-180	+54 +14	+40 -0	+63 -0	+26 -14
180-250	+61 +15	+46 -0	+72 -0	+30 -16
250-315	+69 +17	+52 -0	+81 -0	+36 -16
315-400	+75 +18	+57 -0	+89 -0	+39 -18
400-500	+83 +20	+63 -0	+97 -0	+43 -20
500-620	+92 +23	+69 -0	+104 -0	+46 -23

B.EXCEPT HOUSING BORE.

(μm)

DIMENSION mm	H10	H11	H12	H13	h13
10-18	+70 -0	+110 -0	+180 -0	+270 -0	+0 -270
18-30	+84 -0	+130 -0	+210 -0	+330 -0	+0 -330
30-50	+100 -0	+160 -0	+250 -0	+390 -0	+0 -390
50-80	+120 -0	+190 -0	+300 -0	+460 -0	+0 -460
80-120	+140 -0	+220 -0	+350 -0	+540 -0	+0 -540
120-180	+160 -0	+250 -0	+400 -0	+630 -0	+0 -630
180-250	+185 -0	+290 -0	+460 -0	+720 -0	+0 -720
250-315	+210 -0	+320 -0	+520 -0	+810 -0	+0 -810
315-400	+230 -0	+360 -0	+570 -0	+890 -0	+0 -890

C.SELECTION OF BARING HOUSING TOLERANCES

Conditions		Examples	Tolerance symbol according to ISA
Indeterminate load direction	Normal and light loads, Axial displacement of the outer ring	Electrical motors, Pumps, Crankshaft main bearings	J7
Fixed outer ring load	Shock loads, Temporary complete unloading	Journal boxes for rail vehicles	
	All loads	Bearing applications in general, Journal boxes for rail vehicles	H7
	Normal and light loads, Loads under simple operating	Line shaftings	H8
	Heat supplied through the shaft.	Dryer cylinders	G7