

Table REDUCTION OF RADIAL CLEARANCE to ASSEMBLY SPHERICAL ROLLER BEARING with tapered bore with ADAPTER or WITHDRAWAL SLEEVE



Sleeves for Bearings

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The values listed must be used only as a reference. The final conference must be done with Feeler Gauge.

For assembly or disassembly of Toroidal Roller Bearings CARB, ask for the specific Table for Reduction of Radial Clearance Calculation.

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Quick instruction for **ASSEMBLY** of **ADAPTER SLEEVE** or **WITHDRAWAL SLEEVE** under **SPHERICAL ROLLER** and **SELF-ALIGNING BALL BEARING**

Nominal Measure Internal diameter (d) (Bearing Bore)		Bearing Radial Clearance Before Assembly										Reduction of Bearing Radial Clearance		Axial Displacement "S"				
		Clearance Group												Axial Displacement Taper 1:12		Axial Displacement Taper 1:30		
		C2		Normal		C3		C4		C5								
Greater than	Up to including	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
24	30	0.020	0.030	0.030	0.040	0.040	0.055	0.055	0.075	-	-	0.010	0.015	0.250	0.290	-	-	
30	40	0.025	0.035	0.035	0.050	0.050	0.065	0.065	0.085	0.085	0.105	0.015	0.020	0.300	0.350	-	-	
40	50	0.030	0.045	0.045	0.060	0.060	0.080	0.080	0.100	0.100	0.130	0.020	0.025	0.370	0.440	-	-	
50	65	0.040	0.055	0.055	0.075	0.075	0.095	0.095	0.120	0.120	0.160	0.025	0.035	0.450	0.540	1.150	1.350	
65	80	0.050	0.070	0.070	0.095	0.095	0.120	0.120	0.150	0.150	0.200	0.035	0.040	0.550	0.650	1.400	1.650	
80	100	0.055	0.080	0.080	0.110	0.110	0.140	0.140	0.180	0.180	0.230	0.040	0.050	0.660	0.790	1.650	2.000	
100	120	0.065	0.100	0.100	0.135	0.135	0.170	0.170	0.220	0.220	0.280	0.050	0.060	0.790	0.950	2.000	2.350	
120	140	0.080	0.120	0.120	0.160	0.160	0.200	0.200	0.260	0.260	0.330	0.060	0.075	0.930	1.100	2.300	2.800	
140	160	0.090	0.130	0.130	0.180	0.180	0.230	0.230	0.300	0.300	0.380	0.070	0.085	1.050	1.300	2.650	3.200	
160	180	0.100	0.140	0.140	0.200	0.200	0.260	0.260	0.340	0.340	0.430	0.080	0.095	1.200	1.450	3.000	3.600	
180	200	0.110	0.160	0.160	0.220	0.220	0.290	0.290	0.370	0.370	0.470	0.090	0.105	1.300	1.600	3.300	4.000	
200	225	0.120	0.180	0.180	0.250	0.250	0.320	0.320	0.410	0.410	0.520	0.100	0.120	1.450	1.800	3.700	4.450	
225	250	0.140	0.200	0.200	0.270	0.270	0.350	0.350	0.450	0.450	0.570	0.110	0.130	1.600	1.950	4.000	4.850	
250	280	0.150	0.220	0.220	0.300	0.300	0.390	0.390	0.490	0.490	0.620	0.120	0.150	1.800	2.150	4.500	5.400	
280	315	0.170	0.240	0.240	0.330	0.330	0.430	0.430	0.540	0.540	0.680	0.135	0.165	2.000	2.400	4.950	6.000	
315	355	0.190	0.270	0.270	0.360	0.360	0.470	0.470	0.590	0.590	0.740	0.150	0.180	2.150	2.650	5.400	6.600	
355	400	0.210	0.300	0.300	0.400	0.400	0.520	0.520	0.650	0.650	0.820	0.170	0.210	2.500	3.000	6.200	7.600	
400	450	0.230	0.330	0.330	0.440	0.440	0.570	0.570	0.720	0.720	0.910	0.195	0.235	2.800	3.400	7.000	8.500	
450	500	0.260	0.370	0.370	0.490	0.490	0.630	0.630	0.790	0.790	1.000	0.215	0.265	3.100	3.800	7.800	9.500	
500	560	0.290	0.410	0.410	0.540	0.540	0.680	0.680	0.870	0.870	1.100	0.245	0.300	3.400	4.100	8.400	10.300	
560	630	0.320	0.460	0.460	0.600	0.600	0.760	0.760	0.980	0.980	1.230	0.275	0.340	3.800	4.650	9.500	11.600	
630	710	0.350	0.510	0.510	0.670	0.670	0.850	0.850	1.090	1.090	1.360	0.310	0.380	4.250	5.200	10.600	13.000	
710	800	0.390	0.570	0.570	0.750	0.750	0.960	0.960	1.220	1.220	1.500	0.350	0.425	4.750	5.800	11.900	14.500	
800	900	0.440	0.640	0.640	0.840	0.840	1.070	1.070	1.370	1.370	1.690	0.395	0.480	5.400	6.600	13.500	16.400	
900	1.000	0.490	0.710	0.710	0.930	0.930	1.190	1.190	1.520	1.520	1.860	0.440	0.535	6.000	7.300	15.000	18.300	
1.000	1.120	0.530	0.770	0.770	1.030	1.030	1.300	1.300	1.670	1.670	2.050	0.490	0.600	6.400	7.800	16.000	19.500	
1.120	1.250	0.570	0.830	0.830	1.120	1.120	1.420	1.420	1.830	1.830	2.250	0.550	0.670	7.100	8.700	17.800	21.700	
1.250	1.400	0.620	0.910	0.910	1.230	1.230	1.560	1.560	2.000	2.000	2.450	0.610	0.750	8.000	9.700	19.900	24.300	
1.400	1.600	0.680	1.000	1.000	1.350	1.350	1.720	1.720	2.200	2.200	2.700	0.700	0.850	9.100	11.100	22.700	27.700	
1.600	1.800	0.750	1.110	1.110	1.500	1.500	1.920	1.920	2.400	2.400	2.950	0.790	0.960	10.200	12.500	25.600	31.200	

Note: Valid only for solid steel axes in general applications. The axial displacement differs slightly between bearing sets.