

Deviations of Shafts to be Used in Commonly Used Fits

Excerpt from JIS B 0401:2016

Class of basic dimension (mm)	Tolerance zone class for shaft																	
		b9	c9	d8	d9	e7	e8	e9	f6	f7	f8	g5	g6	h5	h6	h7	h8	h9
-	3	-140	-60	-20	-20	-14	-14	-14	-6	-6	-6	-2	-2	0	0	0	0	0
		-165	-85	-34	-45	-24	-28	-39	-12	-16	-20	-6	-8	-4	-6	-10	-14	-25
3	6	-140	-70	-30	-30	-20	-20	-20	-10	-10	-10	-4	-4	0	0	0	0	0
		-170	-100	-48	-60	-32	-38	-50	-18	-22	-28	-9	-12	-5	-8	-12	-18	-30
6	10	-150	-80	-40	-40	-25	-25	-25	-13	-13	-13	-5	-5	0	0	0	0	0
		-186	-116	-62	-76	-40	-47	-61	-22	-28	-35	-11	-14	-6	-9	-15	-22	-36
10	14	-150	-95	-50	-50	-32	-32	-32	-16	-16	-16	-6	-6	0	0	0	0	0
		-193	-138	-77	-93	-50	-59	-75	-27	-34	-43	-14	-17	-8	-11	-18	-27	-43
18	24	-160	-110	-65	-65	-40	-40	-40	-20	-20	-20	-7	-7	0	0	0	0	0
		-212	-162	-98	-117	-61	-73	-92	-33	-41	-53	-16	-20	-9	-13	-21	-33	-52
30	40	-170	-120	-80	-80	-50	-50	-50	-25	-25	-25	-9	-9	0	0	0	0	0
		-232	-182	-119	-142	-75	-89	-112	-41	-50	-64	-20	-25	-11	-16	-25	-39	-62
40	50	-180	-130	-119	-142	-75	-89	-112	-41	-50	-64	-20	-25	-11	-16	-25	-39	-62
		-242	-192	-146	-174	-90	-106	-134	-49	-60	-76	-23	-29	-13	-19	-30	-46	-74
50	65	-190	-140	-100	-100	-60	-60	-60	-30	-30	-30	-10	-10	0	0	0	0	0
		-264	-214	-146	-174	-90	-106	-134	-49	-60	-76	-23	-29	-13	-19	-30	-46	-74
65	80	-200	-150	-146	-174	-90	-106	-134	-49	-60	-76	-23	-29	-13	-19	-30	-46	-74
		-274	-224	-120	-120	-72	-72	-72	-36	-36	-36	-12	-12	0	0	0	0	0
80	100	-220	-170	-120	-120	-72	-72	-72	-36	-36	-36	-12	-12	0	0	0	0	0
		-307	-257	-174	-207	-107	-126	-159	-58	-71	-90	-27	-34	-15	-22	-35	-54	-87
100	120	-240	-180	-174	-207	-107	-126	-159	-58	-71	-90	-27	-34	-15	-22	-35	-54	-87
		-327	-267	-145	-145	-85	-85	-85	-43	-43	-43	-14	-14	0	0	0	0	0
120	140	-260	-200	-145	-145	-85	-85	-85	-43	-43	-43	-14	-14	0	0	0	0	0
		-360	-300	-208	-245	-125	-148	-185	-68	-83	-106	-32	-39	-18	-25	-40	-63	-100
140	160	-280	-210	-145	-145	-85	-85	-85	-43	-43	-43	-14	-14	0	0	0	0	0
		-380	-310	-208	-245	-125	-148	-185	-68	-83	-106	-32	-39	-18	-25	-40	-63	-100
160	180	-310	-230	-145	-145	-85	-85	-85	-43	-43	-43	-14	-14	0	0	0	0	0
		-410	-330	-170	-170	-100	-100	-100	-50	-50	-50	-15	-15	0	0	0	0	0
180	200	-340	-240	-170	-170	-100	-100	-100	-50	-50	-50	-15	-15	0	0	0	0	0
		-455	-355	-242	-285	-146	-172	-215	-79	-96	-122	-35	-44	-20	-29	-46	-72	-115
200	225	-380	-260	-170	-170	-100	-100	-100	-50	-50	-50	-15	-15	0	0	0	0	0
		-495	-375	-242	-285	-146	-172	-215	-79	-96	-122	-35	-44	-20	-29	-46	-72	-115
225	250	-420	-280	-170	-170	-100	-100	-100	-50	-50	-50	-15	-15	0	0	0	0	0
		-535	-395	-190	-190	-110	-110	-110	-56	-56	-56	-17	-17	0	0	0	0	0
250	280	-480	-300	-190	-190	-110	-110	-110	-56	-56	-56	-17	-17	0	0	0	0	0
		-610	-430	-271	-320	-162	-191	-240	-88	-108	-137	-40	-49	-23	-32	-52	-81	-130
280	315	-540	-330	-190	-190	-110	-110	-110	-56	-56	-56	-17	-17	0	0	0	0	0
		-670	-460	-210	-210	-125	-125	-125	-62	-62	-62	-18	-18	0	0	0	0	0
315	355	-600	-360	-210	-210	-125	-125	-125	-62	-62	-62	-18	-18	0	0	0	0	0
		-740	-500	-299	-350	-182	-214	-265	-98	-119	-151	-43	-54	-25	-36	-57	-89	-140
355	400	-680	-400	-299	-350	-182	-214	-265	-98	-119	-151	-43	-54	-25	-36	-57	-89	-140
		-820	-540	-230	-230	-135	-135	-135	-68	-68	-68	-20	-20	0	0	0	0	0
400	450	-760	-440	-230	-230	-135	-135	-135	-68	-68	-68	-20	-20	0	0	0	0	0
		-915	-595	-327	-385	-198	-232	-290	-108	-131	-165	-47	-60	-27	-40	-63	-97	-155
450	500	-840	-480	-327	-385	-198	-232	-290	-108	-131	-165	-47	-60	-27	-40	-63	-97	-155
		-995	-635															

Remark: In each step of above table, upper figure shows the dimensional allowance of high, and lower figure shows the dimensional allowance of low.

Unit: μm

Class of basic dimension (mm)	Tolerance zone class for shaft																
		js5	js6	js7	J5	J6	k5	k6	m5	m6	n6	p6	r6	s6	t6	u6	x6
-	3	± 2	± 3	± 5	± 2	+4	+4	+6	+6	+8	+10	+12	+16	+20	-	+24	+26
						-2	0	0	+2	+2	+4	+6	+10	+14	-	+18	+20
3	6	± 2.5	± 4	± 6	+3	+6	+6	+9	+9	+12	+16	+20	+23	+27	-	+31	+36
					-2	-2	+1	+1	+4	+4	+8	+12	+15	+19	-	+23	+28
6	10	± 3	± 4.5	± 7	+4	+7	+7	+10	+12	+15	+19	+24	+28	+32	-	+37	+43
					-2	-2	+1	+1	+6	+6	+10	+15	+19	+23	-	+28	+34
10	14	± 4	± 5.5	± 9	+5	+8	+9	+12	+15	+18	+23	+29	+34	+39	-	+44	+51
					-3	-3	+1	+1	+7	+7	+12	+18	+23	+28	-	+33	+40
14	18	± 4.5	± 6.5	± 10.5	+5	+9	+11	+15	+17	+21	+28	+35	+41	+48	-	+54	+67
					-4	-4	+2	+2	+8	+8	+15	+22	+28	+35	+54	+61	+77
30	40	± 5.5	± 8	± 12.5	+6	+11	+13	+18	+20	+25	+33	+42	+50	+59	+64	+76	+86
					-5	-5	+2	+2	+9	+9	+17	+26	+34	+43	+48	+60	+70
50	65	± 6.5	± 9.5	± 15	+6	+12	+15	+21	+24	+30	+39	+51	+60	+72	+85	+106	+121
					-7	-7	+2	+2	+11	+11	+20	+32	+41	+53	+66	+87	+102
80	100	± 7.5	± 11	± 17.5	+6	+13	+18	+25	+28	+35	+45	+59	+73	+93	+113	+146	+166
					-9	-9	+3	+3	+13	+13	+23	+37	+47	+61	+79	+104	+144
120	140	± 9	± 12.5	± 20	+7	+14	+21	+28	+33	+40	+52	+68	+88	+117	+147	+192	+222
					-11	-11	+3	+3	+15	+15	+27	+43	+63	+92	+122	+166	+206
140	160	± 9	± 12.5	± 20	+7	+14	+21	+28	+33	+40	+52	+68	+88	+117	+147	+192	+222
					-11	-11	+3	+3	+15	+15	+27	+43	+63	+92	+122	+166	+206
160	180	± 9	± 12.5	± 20	+7	+14	+21	+28	+33	+40	+52	+68	+88	+117	+147	+192	+222
					-11	-11	+3	+3	+15	+15	+27	+43	+63	+92	+122	+166	+206
180	200	± 10	± 14.5	± 23	+7	+16	+24	+33	+37	+46	+60	+79	+106	+151	+192	+246	+296
					-13	-13	+4	+4	+17	+17	+31	+50	+80	+110	+140	+184	+234
200	225	± 10	± 14.5	± 23	+7	+16	+24	+33	+37	+46	+60	+79	+106	+151	+192	+246	+296
					-13	-13	+4	+4	+17	+17	+31	+50	+80	+110	+140	+184	+234
225	250	± 10	± 14.5	± 23	+7	+16	+24	+33	+37	+46	+60	+79	+106	+151	+192	+246	+296
					-13	-13	+4	+4	+17	+17	+31	+50	+80	+110	+140	+184	+234
250	280	± 11.5	± 16	± 26	+7	+16	+27	+36	+43	+52	+66	+88	+126	+166	+216	+276	+336
					-16	-16	+4	+4	+20	+20	+34	+56	+94	+134	+174	+224	+284
280	315	± 11.5	± 16	± 26	+7	+16	+27	+36	+43	+52	+66	+88	+126	+166	+216	+276	+336
					-16	-16	+4	+4	+20	+20	+34	+56	+94	+134	+174	+224	+284
315	355	± 12.5	± 18	± 28.5	+7	+18	+29	+40	+46	+57	+73	+98	+144	+194	+254	+314	+374
					-18	-18	+4	+4	+21	+21	+37	+62	+108	+148	+188	+248	+308
355	400	± 12.5	± 18	± 28.5	+7	+18	+29	+40	+46	+57	+73	+98	+144	+194	+254	+314	+374
					-18	-18	+4	+4	+21	+21	+37	+62	+108	+148	+188	+248	+308
400	450	± 13.5	± 20	± 31.5	+7	+20	+32	+45	+50	+63	+80	+108	+166	+226	+286	+346	+406
					-20	-20	+5	+5	+23	+23	+40	+68	+114	+154	+194	+254	+314
450	500	± 13.5	± 20	± 31.5	+7	+20	+32	+45	+50	+63	+80	+108	+166				