

ISO Tolerances for Shafts (ISO 286-2)

Nominal Shaft Sizes (mm)																				
over	3	6	10	18	30	40	50	65	80	100	120	140	160	180	200	225	250	280	315	355
inc.	6	10	18	30	40	50	65	80	100	120	140	160	180	200	225	250	280	315	355	400
micrometres																				
a12	-270	-280	-290	-300	-310	-320	-340	-360	-380	-410	-460	-520	-580	-660	-740	-820	-920	-1050	-1200	-1350
	-390	-430	-470	-510	-560	-570	-640	-660	-730	-760	-860	-920	-980	-1120	-1200	-1280	-1440	-1570	-1770	-1920
d6	-30	-40	-50	-65	-80	-96	-100	-119	-120	-142	-145	-170	-170	-199	-199	-190	-222	-222	-246	-246
e6	-20	-25	-32	-40	-50	-60	-60	-72	-72	-94	-85	-85	-110	-100	-100	-110	-110	-142	-142	-161
	-28	-34	-43	-53	-66	-66	-79	-79	-94	-94	-110	-110	-129	-129	-142	-142	-161	-161	-187	-187
e13	-220	-270	-334	-410	-50	-60	-60	-72	-72	-94	-85	-85	-110	-100	-100	-110	-110	-142	-142	-161
	-440	-520	-612	-715	-715	-820	-820	-920	-920	-1015	-1015	-1105	-1105	-1205	-1205	-1305	-1305	-1415	-1415	-1525
f5	-25	-32	-40	-49	-36	-43	-43	-51	-51	-61	-61	-70	-70	-79	-79	-87	-87	-96	-96	-105
	-36	-43	-51	-61	-61	-70	-70	-79	-79	-87	-87	-96	-96	-105	-105	-114	-114	-123	-123	-132
f6	-10	-13	-16	-20	-25	-30	-30	-36	-36	-43	-43	-50	-50	-56	-56	-62	-62	-68	-68	-74
	-18	-22	-27	-33	-41	-49	-49	-58	-58	-68	-68	-79	-79	-88	-88	-98	-98	-108	-108	-118
f7	-10	-13	-16	-20	-25	-30	-30	-36	-36	-43	-43	-50	-50	-56	-56	-62	-62	-68	-68	-74
	-22	-28	-34	-41	-50	-60	-60	-71	-71	-83	-83	-96	-96	-108	-108	-121	-121	-134	-134	-147
g5	-4	-5	-6	-7	-9	-10	-10	-12	-12	-14	-14	-15	-15	-17	-17	-18	-18	-20	-20	-22
	-9	-11	-14	-16	-20	-23	-23	-27	-27	-32	-32	-35	-35	-40	-40	-43	-43	-48	-48	-52
g6	-4	-5	-6	-7	-9	-10	-10	-12	-12	-14	-14	-15	-15	-17	-17	-18	-18	-20	-20	-22
	-12	-14	-17	-20	-25	-29	-29	-34	-34	-39	-39	-44	-44	-49	-49	-54	-54	-60	-60	-66
g7	-4	-5	-6	-7	-9	-10	-10	-12	-12	-14	-14	-15	-15	-17	-17	-18	-18	-20	-20	-22
	-16	-20	-24	-28	-34	-40	-40	-47	-47	-54	-54	-61	-61	-69	-69	-77	-77	-86	-86	-95
h4	0	-0	-0	-0	-0	-0	-0	0	0	-0	-0	-0	-0	0	0	0	0	0	0	0
	-4	-4	-5	-6	-7	-8	-8	-10	-10	-12	-12	-14	-14	-16	-16	-18	-18	-21	-21	-24
h5	0	-0	-0	-0	-0	-0	-0	0	0	-0	-0	-0	-0	0	0	0	0	0	0	0
	-5	-6	-8	-9	-11	-13	-13	-15	-15	-18	-18	-20	-20	-23	-23	-25	-25	-29	-29	-33
h6	0	0	0	0	-0	-0	-0	0	0	-0	-0	-0	-0	0	0	0	0	0	0	0
	-8	-9	-11	-13	-16	-19	-19	-22	-22	-25	-25	-29	-29	-32	-32	-36	-36	-41	-41	-46
h7	0	-0	-0	0	-0	-0	-0	0	0	-0	-0	-0	-0	0	0	0	0	0	0	0
	-12	-15	-18	-21	-25	-30	-30	-35	-35	-40	-40	-46	-46	-52	-52	-57	-57	-64	-64	-71
h8	0	-0	-0	0	-0	-0	-0	0	0	-0	-0	-0	-0	0	0	0	0	0	0	0
	-18	-22	-27	-33	-39	-46	-46	-54	-54	-63	-63	-72	-72	-81	-81	-89	-89	-100	-100	-111
h9	0	-0	-0	0	-0	-0	-0	0	0	-0	-0	-0	-0	0	0	0	0	0	0	0
	-30	-36	-43	-52	-62	-74	-74	-87	-87	-100	-100	-115	-115	-130	-130	-140	-140	-155	-155	-170
h10	0	-0	-0	0	-0	-0	-0	0	0	-0	-0	-0	-0	0	0	0	0	0	0	0
	-48	-58	-70	-84	-100	-120	-120	-140	-140	-160	-160	-185	-185	-210	-210	-230	-230	-260	-260	-290
h11	0	-0	-0	0	-0	-0	-0	0	0	-0	-0	-0	-0	0	0	0	0	0	0	0
	-75	-90	-110	-130	-160	-190	-190	-220	-220	-250	-250	-290	-290	-320	-320	-360	-360	-410	-410	-460
h12	0	-0	-0	0	-0	-0	-0	0	0	-0	-0	-0	-0	0	0	0	0	0	0	0
	-120	-150	-180	-210	-250	-300	-300	-350	-350	-400	-400	-460	-460	-520	-520	-570	-570	-640	-640	-710
j5	3	+4	+5	+5	+6	+6	+6	6	6	+7	+7	+7	+7	7	7	7	7	7	7	7
	-2	-2	-3	-4	-5	-7	-7	-9	-9	-11	-11	-13	-13	-16	-16	-18	-18	-21	-21	-24
j6	6	7	+8	+9	+11	+12	+12	13	13	+14	+14	+16	+16	16	16	16	16	16	16	16
	-2	-2	-3	-4	-5	-7	-7	-9	-9	-11	-11	-13	-13	-16	-16	-18	-18	-21	-21	-24
j7	8	10	+12	+13	+15	+18	+18	20	20	+22	+22	+25	+25	26	26	26	26	26	26	26
	-4	-5	-6	-8	-10	-12	-12	-15	-15	-18	-18	-21	-21	-26	-26	-28	-28	-33	-33	-36
js5	2.5	3	4	+4.5	+5.5	+6.5	+6.5	7.5	7.5	9	9	+10	+10	11.5	11.5	+12.5	+12.5	+14.5	+14.5	+16.5
	-2.5	-3	-4	-4.5	-5.5	-6.5	-6.5	-7.5	-7.5	-9	-9	-10	-10	-11.5	-11.5	-12.5	-12.5	-14.5	-14.5	-16.5
js6	4	4.5	5.5	+6.5	+8	+9.5	+9.5	11	11	12.5	12.5	+14.5	+14.5	16	16	18	18	21	21	24
	-4	-4.5	-5.5	-6.5	-8	-9.5	-9.5	-11	-11	-12.5	-12.5	-14.5	-14.5	-16	-16	-18	-18	-21	-21	-24
js7	6	7.5	9	10.5	+12.5	+15	+15	17.5	17.5	20	20	+23	+23	26	26	28.5	28.5	33	33	36
	-6	-7.5	-9	-10.5	-12.5	-15	-15	-17.5	-17.5	-20	-20	-23	-23	-26	-26	-28.5	-28.5	-33	-33	-36
k5	6	+7	+9	+11	+13	+15	+15	18	18	21	21	+24	+24	27	27	+29	+29	33	33	36
	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	4	4	4	4	4
k6	9	+10	+12	+15	+18	+21	+21	25	25	28	28	+33	+33	36	36	+40	+40	44	44	48
	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	4	4	4	4	4
k7	13	+16	+19	+23	+27	+32	+32	38	38	43	43	+50	+50	56	56	+61	+61	67	67	73
	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	4	4	4	4	4
m5	9	+12	+15	+17	+20	+24	+24	28	28	33	33	+37	+37	43	43	+46	+46	52	52	57
	4	6	7	8	9	11	11	13	13	15	15	17	17	20	20	21	21	24	24	26
m6	12	+15	+18	+21	+25	+30	+30	35	35	40	40	+46	+46	52	52	+57	+57	64	64	70
	4	6	7	8	9	11	11	13	13	15	15	17	17	20	20	21	21	24	24	26
m7	16	+21	+25	+29	+34	+41	+41	48	48	55	55	+63	+63	72	72	+78	+78	87	87	95
	4	6	7	8	9	11	11	13	13	15	15	17	17	20	20	21	21	24	24	26
n5	13	+16	+20	+24	+28	+33	+33	38	38	45	45	+51	+51	57	57	+62	+62	69	69	75
	8	10	12	15	17	20	20	23	23	27	27	31	31	34	34	37	37	41	41	45
n6	16	+19	+23	+28	+33	+39	+39	45	45	52	52	+60	+60	66	66	+73	+73	80	80	87
	8	10	12	15	17	20	20	23	23	27	27	31	31	34	34	37	37	41	41	45
n7	20	+25	+30	+36	+42	+50	+50	58	58	67	67	+77	+77	86	86	+94	+94	103	103	111
	8	10	12	15	17	20	20	23	23	27	27	31	31	34	34	37	37	41	41	45
p5	17	+21	+26	+31	+37	+45	+45	52	52	61	61	+70	+70	79	79	+87	+87	96	96	105
	12	15	18	22	26	32	32	37	37	43	43	50	50	56	56	62	62	69	69	75
p6	20	+24	+29	+35	+42	+51	+51	59	59	68	68	+79	+79	88	88	+98	+98	108	108	118
	12	15	18	22	26	32	32	37	37	43	43	50	50	56	56	62	62	69	69	75
r6	23	+28	+34	+41	+50	60	62	73	+76	88	90	93	+106	109	+113	+126	130	+144	150	150
	15	19	23	28	34	41	43	51	54	63	65	68	77	80	84	94	98	108	108	114



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