

## Çap Malzemeler İçin Toleranslar(ISO 286-2) ISO Tolerances For Shafts (ISO 286-2)

Nominal Çaplar(mm) / Nominal Diameters (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
Mikrometre / Micrometer																				
a12	-270 -390	-280 -430	-290 -470	-300 -510	-310 -560	-320 -570	-340 -640	-360 -660	-380 -730	-410 -760	-460 -860	-520 -920	-580 -980	-660 -1120	-740 -1200	-820 -1280	-920 -1440	-1050 -1570	-1200 -1770	-1350 -1920
d6	-30 -38	-40 -49	-50 -61	-65 -78	-80 -96	-100 -119	-120 -142	-145 -170	-170 -199	-190 -222	-210 -246									
e6	-20 -28	-25 -34	-32 -43	-40 -53	-50 -66	-60 -79	-72 -94	-85 -110	-100 -129	-110 -142	-125 -161									
e13	-220 -270	-270 -334	-334 -410	-410 -440	-440 -520	-520 -612	-612 -715	-715 -820	-820 -920	-920 -1015	-1015 -1120	-1120 -1230	-1230 -1350	-1350 -1470	-1470 -1600	-1600 -1740	-1740 -1890	-1890 -2050	-2050 -2220	-2220 -2400
f5	-25 -32	-32 -40	-40 -49	-49 -58	-58 -68	-68 -79	-79 -91	-91 -104	-104 -118	-118 -133	-133 -149	-149 -166	-166 -184	-184 -203	-203 -223	-223 -244	-244 -266	-266 -289	-289 -315	-315 -342
f6	-10 -18	-13 -22	-16 -27	-20 -33	-25 -41	-30 -49	-36 -58	-43 -68	-50 -79	-56 -88	-62 -98									
f7	-10 -22	-13 -28	-16 -34	-20 -41	-25 -50	-30 -60	-36 -71	-43 -83	-50 -96	-56 -108	-62 -119									
g5	-4 -9	-5 -11	-6 -14	-7 -16	-9 -20	-10 -23	-12 -27	-14 -32	-15 -35	-17 -40	-18 -43									
g6	-4 -12	-5 -14	-6 -17	-7 -20	-9 -25	-10 -29	-12 -34	-14 -39	-15 -44	-17 -49	-18 -54									
g7	-4 -16	-5 -20	-6 -24	-7 -28	-9 -34	-10 -40	-12 -47	-14 -54	-15 -61	-17 -69	-18 -75									
h4	0 -4	0 -4	0 -5	0 -6	0 -7	0 -8	0 -10	0 -12	0 -14	0 -16	0 -18	0 -20	0 -22	0 -24	0 -26	0 -28	0 -30	0 -32	0 -34	0 -36
h5	0 -5	0 -6	0 -8	0 -9	0 -11	0 -13	0 -15	0 -18	0 -20	0 -23	0 -25	0 -28	0 -30	0 -32	0 -34	0 -36	0 -38	0 -40	0 -42	0 -44
h6	0 -8	0 -9	0 -11	0 -13	0 -16	0 -19	0 -22	0 -25	0 -29	0 -32	0 -36	0 -40	0 -44	0 -48	0 -52	0 -56	0 -60	0 -64	0 -68	0 -72
h7	0 -12	0 -15	0 -18	0 -21	0 -25	0 -30	0 -35	0 -40	0 -46	0 -52	0 -57	0 -63	0 -69	0 -76	0 -82	0 -88	0 -94	0 -100	0 -106	0 -112
h8	0 -18	0 -22	0 -27	0 -33	0 -39	0 -46	0 -54	0 -63	0 -72	0 -81	0 -89	0 -98	0 -107	0 -116	0 -125	0 -134	0 -143	0 -152	0 -161	0 -170
h9	0 -30	0 -36	0 -43	0 -52	0 -62	0 -74	0 -87	0 -100	0 -115	0 -130	0 -140	0 -150	0 -160	0 -170	0 -180	0 -190	0 -200	0 -210	0 -220	0 -230
h10	0 -48	0 -58	0 -70	0 -84	0 -100	0 -120	0 -140	0 -160	0 -185	0 -210	0 -230	0 -250	0 -270	0 -290	0 -310	0 -330	0 -350	0 -370	0 -390	0 -410

Nominal Çaplar(mm) / Nominal Diameters (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
Mikrometre / Micrometer																				
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	-220	-250	-290	-320	-360									
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	-350	-400	-460	-520	-570									
j5	3	+4	+5	+5	+6	+6	6	+7	+7	+7	+7	+7	+7	+7	7	+7	+7	+7	+7	+7
	-2	-2	-3	-4	-5	-5	-7	-9	-11	-13	-16	-18	-18	-18	-16	-16	-16	-16	-16	-18
j6	6	7	+8	+9	+11	+12	13	+14	+16	+16	+16	+16	+16	+16	16	+16	+16	+16	+16	+18
	-2	-2	-3	-4	-5	-7	-9	-11	-13	-16	-18	-18	-18	-18	-16	-16	-16	-16	-16	-18
j7	8	10	+12	+13	+15	+18	20	+22	+25	+25	+25	+25	+25	+25	26	+25	+25	+25	+25	+29
	-4	-5	-6	-8	-10	-12	-15	-18	-21	-26	-28	-28	-28	-28	-26	-26	-26	-26	-26	-28
js5	+2.5	3	4	+4.5	+5.5	+6.5	+7.5	9	+10	+10	+10	+10	+10	+10	+11.5	+11.5	+11.5	+11.5	+11.5	+12.5
	-2.5	-3	-4	-4.5	-5.5	-6.5	-7.5	-9	-10	-10	-10	-10	-10	-10	-11.5	-11.5	-11.5	-11.5	-11.5	-12.5
js6	4	+4.5	+5.5	+6.5	+8	+9.5	11	+12.5	+14.5	+14.5	+14.5	+14.5	+14.5	+14.5	+16	+16	+16	+16	+16	18
	-4	-4.5	-5.5	-6.5	-8	-9.5	-11	-12.5	-14.5	-14.5	-14.5	-14.5	-14.5	-14.5	-16	-16	-16	-16	-16	-18
js7	6	+7.5	9	+10.5	+12.5	+15	+17.5	20	+23	+23	+23	+23	+23	+23	+26	+26	+26	+26	+26	+28.5
	-6	-7.5	-9	-10.5	-12.5	-15	-17.5	-20	-23	-23	-23	-23	-23	-23	-26	-26	-26	-26	-26	-28.5
k5	6	+7	+9	+11	+13	+15	18	21	+24	+24	+24	+24	+24	+24	27	+24	+24	+24	+24	+29
	1	1	1	2	2	2	3	3	4	4	4	4	4	4	4	4	4	4	4	4
k6	9	+10	+12	+15	+18	+21	25	28	+33	+33	+33	+33	+33	+33	36	+33	+33	+33	+33	+40
	1	1	1	2	2	2	3	3	4	4	4	4	4	4	4	4	4	4	4	4
k7	13	+16	+19	+23	+27	+32	38	43	+50	+50	+50	+50	+50	+50	56	+50	+50	+50	+50	+61
	1	1	1	2	2	2	3	3	4	4	4	4	4	4	4	4	4	4	4	4
m5	9	+12	+15	+17	+20	+24	28	33	+37	+37	+37	+37	+37	+37	43	+37	+37	+37	+37	+46
	4	6	7	8	9	11	13	15	17	17	17	17	17	17	20	17	17	17	17	21
m6	12	+15	+18	+21	+25	+30	35	40	+46	+46	+46	+46	+46	+46	52	+46	+46	+46	+46	+57
	4	6	7	8	9	11	13	15	17	17	17	17	17	17	20	17	17	17	17	21
m7	16	+21	+25	+29	+34	+41	48	55	+63	+63	+63	+63	+63	+63	72	+63	+63	+63	+63	+78
	4	6	7	8	9	11	13	15	17	17	17	17	17	17	20	17	17	17	17	21
n5	13	+16	+20	+24	+28	+33	38	45	+51	+51	+51	+51	+51	+51	57	+51	+51	+51	+51	+62
	8	10	12	15	17	20	23	27	31	31	31	31	31	31	34	31	31	31	31	37
n6	16	+19	+23	+28	+33	+39	45	52	+60	+60	+60	+60	+60	+60	66	+60	+60	+60	+60	+73
	8	10	12	15	17	20	23	27	31	31	31	31	31	31	34	31	31	31	31	37
n7	20	+25	+30	+36	+42	+50	58	67	+77	+77	+77	+77	+77	+77	86	+77	+77	+77	+77	+94
	8	10	12	15	17	20	23	27	31	31	31	31	31	31	34	31	31	31	31	37
p5	17	+21	+26	+31	+37	+45	52	61	+70	+70	+70	+70	+70	+70	79	+70	+70	+70	+70	+87
	12	15	18	22	26	32	37	43	50	50	50	50	50	50	56	50	50	50	50	62
p6	20	+24	+29	+35	+42	+51	59	68	+79	+79	+79	+79	+79	+79	88	+79	+79	+79	+79	+98
	12	15	18	22	26	32	37	43	50	50	50	50	50	50	56	50	50	50	50	62
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	114	114

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