

### ISO Tolerances for Holes (ISO 286-2)

Nominal hole 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																				
E6	28	+34	43	53	+66	+79	94	+110	+129	142	+161									
	20	25	32	40	50	60	72	85	100	110	125									
E7	32	+40	50	+61	+75	+90	107	+125	+146	162	+185									
	20	25	32	40	50	60	72	85	100	110	125									
E11	95	115	142	170	+210	+250	292	+335	+390	430	+485									
	20	25	32	40	50	60	72	85	100	110	125									
E12	140	175	212	250	+300	+360	422	+485	+560	630	+695									
	20	25	32	40	50	60	72	85	100	110	125									
E13	200	245	302	370	+440	+520	612	+715	+820	920	+1 015									
	20	25	32	40	50	60	72	85	100	110	125									
F6	+18	22	27	33	+41	+49	+58	+68	79	+88	98									
	10	13	16	20	2	30	36	43	50	56	62									
F7	22	28	34	41	+50	+60	+71	+83	96	+108	119									
	10	13	16	20	25	30	36	43	50	56	62									
F8	28	35	43	53	+64	+76	+90	+106	122	+137	151									
	10	13	16	20	25	30	36	43	50	56	62									
G6	12	+14	17	20	+25	+29	+34	39	+44	+49	54									
	4	5	6	7	9	10	12	14	15	17	18									
G7	16	+20	24	28	+34	+40	+47	54	+61	+69	75									
	4	5	6	7	9	10	12	14	15	17	18									
G8	22	+27	33	40	+48	+56	+66	77	+87	+98	107									
	4	5	6	7	9	10	12	14	15	17	18									
H6	8	+9	11	13	+16	+19	+22	25	+29	+32	36									
	0	0	0	0	0	0	0	0	0	0	0									
H7	12	+15	18	21	25	+30	+35	40	+46	52	57									
	0	0	0	0	0	0	0	0	0	0	0									
H8	18	+22	27	33	+39	+46	+54	63	+72	+81	89									
	0	0	0	0	0	0	0	0	0	0	0									
H9	30	+36	43	52	+62	+74	+87	100	+115	+130	140									
	0	0	0	0	0	0	0	0	0	0	0									
H10	48	+58	70	84	+100	+120	+140	160	+185	+210	230									
	0	0	0	0	0	0	0	0	0	0	0									
H11	75	+90	110	130	+160	+190	+220	250	+290	+320	360									
	0	0	0	0	0	0	0	0	0	0	0									
J6	5	+5	6	8	+10	+13	+16	18	+22	+25	29									
	-3	-4	-5	-5	-6	-6	-6	-7	-7	-7	-7									
J7	6	+8	10	12	+14	+18	+22	26	+30	+36	39									
	-6	-7	-8	-9	-11	-12	-13	-14	-16	-16	-18									
J8	10	+12	15	20	+24	+28	+34	41	+47	+55	60									
	-8	-10	-12	-13	-15	-18	-20	-22	-25	-26	-29									
JS6	4	+4.5	5.5	6.5	+8	+9.5	+11	12.5	+14.5	+16	18									
	-4	-4.5	-5.5	-6.5	-8	-9.5	-11	-12.5	-14.5	-16	-18									
JS7	6	+7.5	9	10.5	+12.5	+15	+17.5	20	+23	+26	28.5									
	-6	-7.5	-9	-10.5	-12.5	-15	-17.5	-20	-23	-26	-28.5									
JS8	9	+11	13.5	16.5	+19.5	+23	+27	31.5	+36	+40.5	44.5									
	-9	-11	-13.5	-16.5	-19.5	-23	-27	-31.5	-36	-40.5	-44.5									
K6	2	+2	2	2	+3	+4	+4	4	+5	+5	7									
	-6	-7	-9	-11	-13	-15	-18	-21	-24	-27	-29									
K7	3	+5	6	6	+7	+9	+10	12	+13	+16	17									
	-9	-10	-12	-15	-18	-21	-25	-28	-33	-36	-40									
K8	5	+6	8	10	+12	+14	+16	20	+22	+25	28									
	-13	-16	-19	-23	-27	-32	-38	-43	-50	-56	-61									
M6	-1	-3	-4	-4	-4	-5	-6	-8	-8	-9	-10									
	-9	-12	-15	-17	-20	-24	-28	-33	-37	-41	-46									
M7	0	0	0	0	0	0	0	0	0	0	0									
	-12	-15	-18	-21	-25	-30	-35	-40	-46	-52	-57									
M8	2	+1	2	4	+5	+5	6	8	9	9	11									
	-16	-21	-25	-29	-34	-41	-48	-55	-63	-72	-78									
N6	-5	-7	-9	-11	-12	-14	-16	-20	-22	-25	-26									
	-13	-16	-20	-24	-28	-33	-38	-45	-51	-57	-62									
N7	-4	-4	-5	-7	-8	-9	-10	-12	-14	-14	-16									
	-16	-19	-23	-28	-33	-39	-45	-52	-60	-66	-73									
N8	-2	-3	-3	-3	-3	-4	-4	-4	-5	-5	-5									
	-20	-25	-30	-36	-42	-50	-58	-67	-77	-86	-94									
P6	-9	-12	-15	-18	-21	-26	-30	-36	-41	-47	-51									
	-17	-21	-26	-31	-37	-45	-52	-61	-70	-79	-87									
P7	-8	-9	-11	-14	-17	-21	-24	-28	-33	-36	-41									
	-20	-24	-29	-35	-42	-51	-59	-68	-79	-88	-98									
P8	-12	-15	-18	-22	-26	-32	-37	-43	-50	-56	-62									
	-30	-37	-45	-55	-65	-78	-91	-106	-122	-137	-151									
R6	-12	-16	-20	-24	-29	-35	-37	-44	-47	-56	-58	-61	-68	-71	-75	-85	-89	-97	-103	
	-20	-25	-31	-37	-45	-54	-56	-66	-69	-81	-83	-86	-97	-100	-104	-117	-121	-133	-139	
R7	-11	-13	-16	-20	-25	-30	-32	-38	-41	-48	-50	-53	-60	-63	-67	-74	-78	-87	-93	
	-23	-28	-34	-41	-50	-60	-62	-73	-76	-88	-90	-93	-106	-109	-113	-126	-130	-144	-150	



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