

**ISO Tolerances for Holes / mm (ISO 286-2)**  
(micron / 0,001 mm)

>	3	6	10	18	30	40	50	65	80	100
(incl) <	6	10	18	30	40	50	65	80	100	120
<b>E6</b>	+28 +20	+34 +25	+43 +32	+53 +40	+66 +50	+76 +60	+94 +72			
<b>E7</b>	+32 +20	+40 +25	+50 +32	+61 +40	+75 +50	+90 +60	+107 +72			
<b>E11</b>	+95 +20	+115 +25	+142 +32	+170 +40	+210 +50	+250 +60	+292 +72			
<b>E12</b>	+140 +20	+175 +25	+212 +32	+250 +40	+300 +50	+360 +60	+422 +72			
<b>E13</b>	+200 +20	+245 +25	+302 +32	+370 +40	+440 +50	+520 +60	+612 +72			
<b>F6</b>	+18 +10	+22 +13	+27 +16	+33 +20	+41 +2	+49 +30	+58 +36			
<b>F7</b>	+22 +10	+28 +13	+34 +16	+41 +20	+50 +25	+60 +30	+71 +36			
<b>F8</b>	+28 +10	+35 +13	+43 +16	+53 +20	+64 +25	+76 +30	+90 +36			
<b>G6</b>	+12 +4	+14 +5	+17 +6	+20 +7	+25 +9	+29 +10	+32 +12			
<b>G7</b>	+16 +4	+20 +5	+24 +6	+28 +7	+34 +9	+40 +10	+47 +12			
<b>G8</b>	+22 +4	+27 +5	+33 +6	+40 +7	+48 +9	+56 +10	+66 +12			
<b>H3</b>	0 +2.5	0 +2.5	0 +3	0 +4	0 +4	0 +5	0 +6			
<b>H6</b>	+8 0	+9 0	+11 0	+13 0	+16 0	+19 0	+22 0			
<b>H7</b>	+12 0	+15 0	+18 0	+21 0	+25 0	+30 0	+35 0			
<b>H8</b>	+18 0	+22 0	+27 0	+33 0	+39 0	+46 0	+54 0			
<b>H9</b>	+30 0	+36 0	+43 0	+52 0	+62 0	+74 0	+87 0			
<b>H10</b>	+48 0	+58 0	+70 0	+84 0	+100 0	+120 0	+140 0			
<b>H11</b>	+75 0	+90 0	+110 0	+130 0	+160 0	+190 0	+220 0			
<b>J6</b>	+5 -3	+5 -4	+6 -5	+8 -5	+10 -6	+13 -6	+16 -6			
<b>J7</b>	+6 -6	+8 -7	+10 -8	+12 -9	+14 -11	+18 -12	+22 -13			
<b>J8</b>	+10 -8	+12 -10	+15 -12	+20 -13	+24 -15	+28 -18	+34 -20			
<b>JS6</b>	+4 -4	+4.5 -4.5	+5.5 -5.5	+6.5 -6.5	+8 -8	+9.5 -9.5	+11 -11			
<b>JS7</b>	+6 -6	+7.5 -7.5	+9 -9	+10.5 -10.5	+12.5 -12.5	+15 -15	+17.5 -17.5			
<b>JS8</b>	+9 -9	+11 -11	+13.5 -13.5	+16.5 -16.5	+19.5 -19.5	+23 -23	+27 -27			
<b>K6</b>	+2 -6	+2 -7	+2 -9	+2 -11	+3 -13	+4 -15	+4 -18			
<b>K7</b>	+3 -9	+5 -10	+6 -12	+6 -15	+7 -18	+9 -21	+10 -25			
<b>K8</b>	+5 -13	+16 -16	8 -19	+10 -23	+12 -27	+14 -32	+16 -38			
<b>M6</b>	-1 -9	+3 -12	-4 -15	-4 -17	-4 -20	-5 -24	-6 -28			
<b>M7</b>	0 -12	0 -15	0 -18	0 -21	0 -25	0 -30	0 -35			
<b>M8</b>	+2 -16	+1 -21	+2 -25	+4 -29	+5 -34	+5 -41	+6 -48			
<b>N6</b>	-5 -13	-7 -16	-9 -20	-11 -24	-12 -28	-14 -33	-16 -38			
<b>N7</b>	-4 -16	-4 -19	-5 -23	-7 -28	-8 -33	-9 -39	-10 -45			
<b>N8</b>	-2 -20	-3 -25	-3 -30	-3 -36	-3 -42	-4 -50	-4 -58			
<b>P6</b>	-9 -17	-12 -21	-15 -26	-18 -31	-21 -37	-26 -45	-30 -52			
<b>P7</b>	-8 -20	-9 -24	-11 -29	-14 -35	-17 -42	-21 -51	-24 -59			
<b>P8</b>	-12 -30	-15 -37	-18 -45	-22 -55	-26 -65	-32 -78	-37 -91			
<b>R6</b>	-12 -20	-16 -25	-20 -31	-24 -37	-29 -45	-35 -54	-37 -66	-44 -76	-47 -69	
<b>R7</b>	-11 -23	-13 -28	-16 -34	-20 -41	-25 -50	-30 -60	-32 -72	-38 -84	-41 -96	

**ISO Tolerances for Shafts / mm (ISO 286-2)**  
(micron / 0,001 mm)

>	3	6	10	18	30	40	50	65	80	100
(incl) <	6	10	18	30	40	50	65	80	100	120
<b>a12</b>	-270 -390	-280 -430	-290 -470	-300 -510	-310 -560	-320 -570	-340 -640	-360 -660	-380 -730	-410 -760
<b>d6</b>	-30 -38	-40 -49	-50 -61	-65 -78	-80 -96	-100 -119	-120 -142			
<b>e6</b>	-20 -28	-25 -34	-32 -43	-40 -53	-50 -66	-60 -79	-72 -94			
<b>e13</b>	-220 -220	-270 -270	-334 -334	-410 -440	-50 -50	-60 -520	-72 -612			
<b>f5</b>	-25 -25	-32 -32	-40 -40	-49 -36	-25 -25	-30 -43	-36 -51			
<b>f6</b>	-10 -18	-13 -22	-16 -27	-20 -33	-25 -41	-30 -49	-36 -58			
<b>f7</b>	-10 -22	-13 -28	-16 -34	-20 -41	-25 -50	-30 -60	-36 -71			
<b>g5</b>	-4 -9	-5 -11	-6 -14	-7 -16	-9 -20	-10 -23	-12 -27			
<b>g6</b>	-4 -12	-5 -14	-6 -17	-7 -20	-9 -25	-10 -29	-12 -34			
<b>g7</b>	-4 -16	-5 -20	-6 -24	-7 -28	-9 -34	-10 -40	-12 -47			
<b>h3</b>	0 -2.5	0 -2.5	0 -3	0 -4	0 -4	0 -5	0 -6			
<b>h4</b>	0 -4	0 -4	0 -5	0 -6	0 -7	0 -8	0 -10			
<b>h5</b>	0 -5	0 -6	0 -8	0 -9	0 11	0 13	0 15			
<b>h6</b>	0 -8	0 -9	0 -11	0 -13	0 -16	0 -19	0 -22			
<b>h7</b>	0 -12	0 -15	0 -18	0 -21	0 -25	0 -30	0 -35			
<b>h8</b>	0 -18	0 -22	0 -27	0 -33	0 -39	0 -46	0 -54			
<b>h9</b>	0 -30	0 -36	0 -43	0 -52	0 -62	0 -74	0 -87			
<b>h10</b>	0 -48	0 -58	0 -70	0 -84	0 -100	0 -120	0 -140			
<b>h11</b>	0 -75	0 -90	0 -110	0 -130	0 -160	0 -190	0 -220			
<b>h12</b>	0 -120	0 -150	0 -180	0 -210	0 -250	0 -300	0 -350			
<b>j5</b>	+3 -2	+4 -2	+5 -3	+5 -4	+6 -5	+6 -7	+6 -9			
<b>j6</b>	+6 -2	+7 -2	+8 -3	+9 -4	+11 -5	+12 -7	+13 -9			
<b>j7</b>	+8 -4	+10 -5	+12 -6	+13 -8	+15 -10	+18 -12	+20 -15			
<b>js5</b>	+2.5 -5	+3 -3	+4 -4	+4.5 -4.5	+5.5 -5.5	+6.5 -6.5	+7.5 -7.5			
<b>js6</b>	+4 -4	+4.5 -4.5	+5.5 -5.5	+6.5 -6.5	+8 -8	+9.5 -9.5	+11 -11			
<b>js7</b>	+6 -6	+7.5 -7.5	+9 -9	+10.5 -10.5	+12.5 -12.5	+15 -15	+17.5 -17.5			
<b>k5</b>	+6 +1	+7 +1	+9 +1	+11 +2	+13 +2	+15 +2	+18 +3			
<b>k6</b>	+9 +1	+10 +1	+12 +1	+15 +2	+18 +2	+21 +2	+25 +3			
<b>k7</b>	+13 +1	+16 +1	+19 +1	+23 +2	+27 +2	+32 +2	+38 +3			
<b>m5</b>	+9 +4	+12 +6	+15 +7	+17 +8	+20 +9	+24 +11	+28 +13			
<b>m6</b>	+12 +4	+15 +6	+18 +7	+21 +8	+25 +9	+30 +11	+35 +13			
<b>m7</b>	+16 +4	+21 +6	+25 +7	+29 +8	+34 +9	+41 +11	+48 +13			
<b>n5</b>	+13 +8	+16 +10	+20 +12	+24 +15	+28 +17	+33 +20	+38 +23			
<b>n6</b>	+16 +8	+19 +10	+23 +12	+28 +15	+33 +17	+39 +20	+45 +23			
<b>n7</b>	+20 +8	+25 +10	+30 +12	+36 +15	+42 +17	+50 +20	+58 +23			
<b>p5</b>	+17 +12	+21 +15	+26 +18	+31 +22	+37 +26	+45 +32	+52 +37			
<b>p6</b>	+20 +12	+24 +15	+29 +18	+35 +22	+42 +26	+51 +32	+59 +37			
<b>r6</b>	+23 +15	+28 +19	+34 +23	+41 +28	+50 +34	+60 +41	+62 +43	+73 +51	+76 +54	