



Useful Metric ISO Tolerances in mm

Basic Sizes

| (over) - to | E7 | F7 | F8 | G7 | G8 | H7 | IT9 | IT10 | js13 | f7 | h8 | h13 | m5 | r6 | r7 | s5 | s7 | s8 |
|-------------|------------------|------------------|------------------|------------------|------------------|-------------|-------|-------|------------------|------------------|-------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|
| (0) - 3 | +0.024 +0.014 | +0.016 +0.006 | +0.020 +0.006 | +0.012 +0.002 | +0.016 +0.002 | +0.010 0 | 0.025 | 0.040 | +0.070 -0.070 | -0.006 -0.016 | 0 -0.014 | 0 -0.140 | +0.006 +0.002 | +0.016 +0.010 | +0.020 +0.010 | +0.018 +0.014 | +0.024 +0.014 | +0.028 +0.014 |
| (3) - 6 | +0.032 +0.020 | +0.022 +0.010 | +0.028 +0.010 | +0.016 +0.004 | +0.022 +0.004 | +0.012 0 | 0.030 | 0.048 | +0.090 -0.090 | -0.010 -0.022 | 0 -0.018 | 0 -0.180 | +0.009 +0.004 | +0.023 +0.015 | +0.027 +0.015 | +0.024 +0.019 | +0.031 +0.019 | +0.037 +0.019 |
| (6) - 10 | +0.040 +0.025 | +0.028 +0.013 | +0.035 +0.013 | +0.020 +0.005 | +0.027 +0.005 | +0.015 0 | 0.036 | 0.058 | +0.110 -0.110 | -0.013 -0.028 | 0 -0.022 | 0 -0.220 | +0.012 +0.006 | +0.028 +0.019 | +0.034 +0.019 | +0.029 +0.023 | +0.038 +0.023 | +0.045 +0.023 |
| (10) - 18 | +0.050 +0.032 | +0.034 +0.016 | +0.043 +0.016 | +0.024 +0.006 | +0.033 +0.006 | +0.018 0 | 0.043 | 0.070 | +0.135 -0.135 | -0.016 -0.034 | 0 -0.027 | 0 -0.270 | +0.015 +0.007 | +0.034 +0.023 | +0.041 +0.023 | +0.036 +0.028 | +0.046 +0.028 | +0.055 +0.028 |
| (18) - 30 | +0.061 +0.040 | +0.041 +0.020 | +0.053 +0.020 | +0.028 +0.007 | +0.040 +0.007 | +0.021 0 | 0.052 | 0.084 | +0.165 -0.165 | -0.020 -0.041 | 0 -0.033 | 0 -0.330 | +0.017 +0.008 | +0.041 +0.028 | +0.049 +0.028 | +0.044 +0.035 | +0.056 +0.035 | +0.068 +0.035 |
| (30) - 50 | +0.075 +0.050 | +0.050 +0.025 | +0.064 +0.025 | +0.034 +0.009 | +0.048 +0.009 | +0.025 0 | 0.062 | 0.100 | +0.195 -0.195 | -0.025 -0.050 | 0 -0.039 | 0 -0.390 | +0.020 +0.009 | +0.050 +0.034 | +0.059 +0.034 | +0.054 +0.043 | +0.068 +0.043 | +0.082 +0.043 |
| (50) - 65 | +0.090 +0.060 | +0.060 +0.030 | +0.076 +0.030 | +0.040 +0.010 | +0.056 +0.010 | +0.030 0 | 0.074 | 0.120 | +0.230 -0.230 | -0.030 -0.060 | 0 -0.046 | 0 -0.460 | +0.024 +0.011 | +0.060 +0.041 | +0.071 +0.041 | +0.066 +0.053 | +0.083 +0.053 | +0.099 +0.053 |
| (65) - 80 | +0.090 +0.060 | +0.060 +0.030 | +0.076 +0.030 | +0.040 +0.010 | +0.056 +0.010 | +0.030 0 | 0.074 | 0.120 | +0.230 -0.230 | -0.030 -0.060 | 0 -0.046 | 0 -0.460 | +0.024 +0.011 | +0.062 +0.043 | +0.073 +0.043 | +0.072 +0.059 | +0.089 +0.059 | +0.105 +0.059 |
| (80) - 100 | +0.107 +0.072 | +0.071 +0.036 | +0.090 +0.036 | +0.047 +0.012 | +0.066 +0.012 | +0.035 0 | 0.087 | 0.140 | +0.270 -0.270 | -0.036 -0.071 | 0 -0.054 | 0 -0.540 | +0.028 +0.013 | +0.073 +0.051 | +0.086 +0.051 | +0.086 +0.071 | +0.106 +0.071 | +0.125 +0.071 |
| (100) - 120 | +0.107 +0.072 | +0.071 +0.036 | +0.090 +0.036 | +0.047 +0.012 | +0.066 +0.012 | +0.035 0 | 0.087 | 0.140 | +0.270 -0.270 | -0.036 -0.071 | 0 -0.054 | 0 -0.540 | +0.028 +0.013 | +0.076 +0.054 | +0.089 +0.054 | +0.094 +0.079 | +0.114 +0.079 | +0.133 +0.079 |