



# ISO TOLERANCE CHART

## QUICK REFERENCE GUIDE

Nominal Dimension		External Measurement Tolerance Zone (mm)								
OVER	TO	m6	h6	h8	h10	h11	h13	h14	h15	h16
0	1	0.01	$\begin{smallmatrix} 0 \\ -0.006 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.014 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.040 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.060 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.14 \end{smallmatrix}$			
1	3	0.01	$\begin{smallmatrix} 0 \\ -0.006 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.014 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.040 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.060 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.14 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.25 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.40 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.60 \end{smallmatrix}$
3	6	0.016	$\begin{smallmatrix} 0 \\ -0.008 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.018 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.048 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.075 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.18 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.30 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.48 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.75 \end{smallmatrix}$
6	10	0.021	$\begin{smallmatrix} 0 \\ -0.009 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.022 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.058 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.090 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.22 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.36 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.58 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.90 \end{smallmatrix}$
10	18	0.025	$\begin{smallmatrix} 0 \\ -0.011 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.027 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.070 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.110 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.27 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.43 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.70 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -1.10 \end{smallmatrix}$
18	30	0.029	$\begin{smallmatrix} 0 \\ -0.030 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.033 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.084 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.130 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.33 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.52 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.84 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -1.30 \end{smallmatrix}$
30	50						$\begin{smallmatrix} 0 \\ -0.39 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.62 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -1.00 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -1.60 \end{smallmatrix}$
50	80						$\begin{smallmatrix} 0 \\ -0.46 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.74 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -1.20 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -1.90 \end{smallmatrix}$
80	120						$\begin{smallmatrix} 0 \\ -0.54 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -0.87 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -1.40 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -2.20 \end{smallmatrix}$

Nominal Dimension		Internal Measurement Tolerance Zone (mm)					
OVER	TO	H7	H8	H9	H11	H13	H14
0	1	$\begin{smallmatrix} +0.010 \\ 0 \end{smallmatrix}$	$\begin{smallmatrix} +0.014 \\ 0 \end{smallmatrix}$	$\begin{smallmatrix} +0.025 \\ 0 \end{smallmatrix}$	$\begin{smallmatrix} +0.060 \\ 0 \end{smallmatrix}$	$\begin{smallmatrix} +0.14 \\ 0 \end{smallmatrix}$	
1	3	$\begin{smallmatrix} +0.010 \\ 0 \end{smallmatrix}$	$\begin{smallmatrix} +0.014 \\ 0 \end{smallmatrix}$	$\begin{smallmatrix} +0.025 \\ 0 \end{smallmatrix}$	$\begin{smallmatrix} +0.060 \\ 0 \end{smallmatrix}$	$\begin{smallmatrix} +0.14 \\ 0 \end{smallmatrix}$	$\begin{smallmatrix} +0.25 \\ 0 \end{smallmatrix}$
3	6	$\begin{smallmatrix} +0.012 \\ 0 \end{smallmatrix}$	$\begin{smallmatrix} +0.018 \\ 0 \end{smallmatrix}$	$\begin{smallmatrix} +0.030 \\ 0 \end{smallmatrix}$	$\begin{smallmatrix} +0.075 \\ 0 \end{smallmatrix}$	$\begin{smallmatrix} +0.18 \\ 0 \end{smallmatrix}$	$\begin{smallmatrix} +0.30 \\ 0 \end{smallmatrix}$
6	10	$\begin{smallmatrix} +0.015 \\ 0 \end{smallmatrix}$	$\begin{smallmatrix} +0.022 \\ 0 \end{smallmatrix}$	$\begin{smallmatrix} +0.036 \\ 0 \end{smallmatrix}$	$\begin{smallmatrix} +0.090 \\ 0 \end{smallmatrix}$	$\begin{smallmatrix} +0.22 \\ 0 \end{smallmatrix}$	$\begin{smallmatrix} +0.36 \\ 0 \end{smallmatrix}$
10	18	$\begin{smallmatrix} +0.018 \\ 0 \end{smallmatrix}$	$\begin{smallmatrix} +0.027 \\ 0 \end{smallmatrix}$	$\begin{smallmatrix} +0.043 \\ 0 \end{smallmatrix}$	$\begin{smallmatrix} +0.110 \\ 0 \end{smallmatrix}$	$\begin{smallmatrix} +0.27 \\ 0 \end{smallmatrix}$	$\begin{smallmatrix} +0.43 \\ 0 \end{smallmatrix}$
18	30	$\begin{smallmatrix} +0.021 \\ 0 \end{smallmatrix}$	$\begin{smallmatrix} +0.033 \\ 0 \end{smallmatrix}$	$\begin{smallmatrix} +0.052 \\ 0 \end{smallmatrix}$	$\begin{smallmatrix} +0.130 \\ 0 \end{smallmatrix}$	$\begin{smallmatrix} +0.33 \\ 0 \end{smallmatrix}$	$\begin{smallmatrix} +0.520 \\ 0 \end{smallmatrix}$
30	50					$\begin{smallmatrix} +0.39 \\ 0 \end{smallmatrix}$	$\begin{smallmatrix} +0.62 \\ 0 \end{smallmatrix}$
50	80					$\begin{smallmatrix} +0.46 \\ 0 \end{smallmatrix}$	$\begin{smallmatrix} +0.74 \\ 0 \end{smallmatrix}$
80	120					$\begin{smallmatrix} +0.54 \\ 0 \end{smallmatrix}$	$\begin{smallmatrix} +0.87 \\ 0 \end{smallmatrix}$

\*The information provided here is for general use only, and may not cover all specific cases or applications.