The Art of Isometric Sketching

Isometric drawing is a way of showing three views of a drawing on a flat piece of paper. Points can be measured exactly on two planes to find the actual location of the point on the item.

1. Select the views of the object you want to show. Usually, the Front (F), Top (T) and Right Side (RS) views are used, but the Left Side (LS) can be used if it helps to better show detail and improve communication.
2. Set the paper to Landscape in front of you.
3. Determine the maximum dimensions of the height, width and depth of the item to be drawn.
4. Start in a lower corner of the paper based on the views to be drawn. For the standard F, T, RS views, start in the lower left corner of the paper. (Figure 1)
5. Draw the vertical and two $30^\circ$ axes. (Figure 2)
6. Draw a box with the length of sides equal to the maximum dimensions of the item’s height, width and depth. (Figure 3). **Be sure that the entire box fits on the paper.**
7. Dimensions can be measured directly along each axis. To locate any point on the item, find the location of the point in two of the three views, then draw construction lines from the two points parallel to the box sides. Where the two construction lines cross is the exact location of the point in the three-dimensional object.

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**Figure 1**

**Figure 2**

**Figure 3**

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No Guts, No Glory!