

## Surface

A surface object can be used as the slicing path. The surface can be planar or nonplanar (curved). Surface modeling is discussed in detail in Chapter 10. Using a surface as a slicing path is a technique that you can use to quickly create a mating die. For example, refer to **Figure 8-26**. First, draw the required surface. The surface should exactly match the stamped part that will be manufactured, **Figure 8-26A**. Then, draw a box that encompasses the surface. Next, select the **SLICE** command, pick the box, and press [Enter]. Then, enter the **Surface** option and select the surface. You may need to turn on selection cycling or work in a wireframe display. Finally, when prompted to select the side to keep, press [Enter] to keep both sides. The two halves of the die can now be moved and rotated as needed, **Figure 8-26B**.

### PROFESSIONAL TIP

You can use extruded surfaces, revolved surfaces, lofted surfaces, and swept surfaces as slicing objects.

## Exercise 8-9

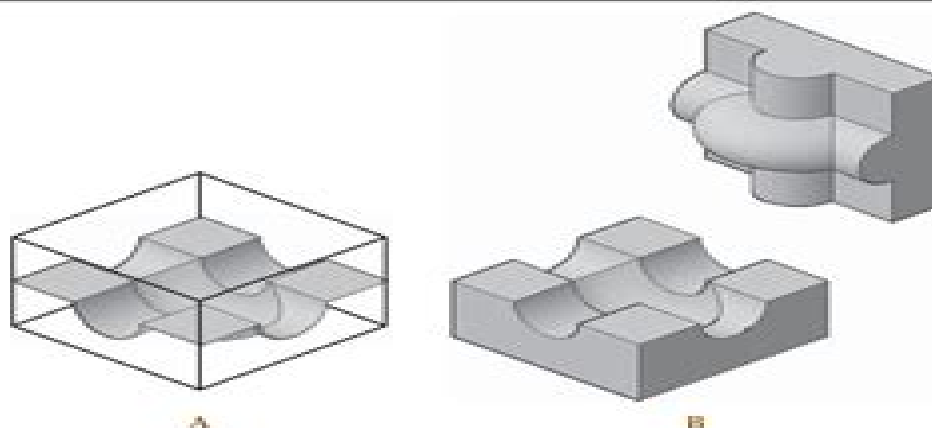
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Complete the exercise on the companion website.

## Z Axis

You can specify one point on the cutting plane and one point on the Z axis of the plane. See **Figure 8-27**. This allows you to have a cutting plane that is not parallel to the current UCS XY plane. First, select the **SLICE** command, pick the object to slice, and press [Enter]. Next, enter the **Zaxis** option. Then, pick a point on the XY plane of the cutting plane followed by a point on the Z axis of the cutting plane. Finally, pick the side of the object to keep.

**Figure 8-26.**  
Slicing a solid with a surface. **A**—Draw the surface and locate it within the solid to be sliced. The solid is represented here by the wireframe. **B**—The completed slice with both sides retained. The top can now be moved and rotated as shown here.



# Autocad And Its Applications Comprehensive 201

**Terence M. Shumaker,David A.  
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