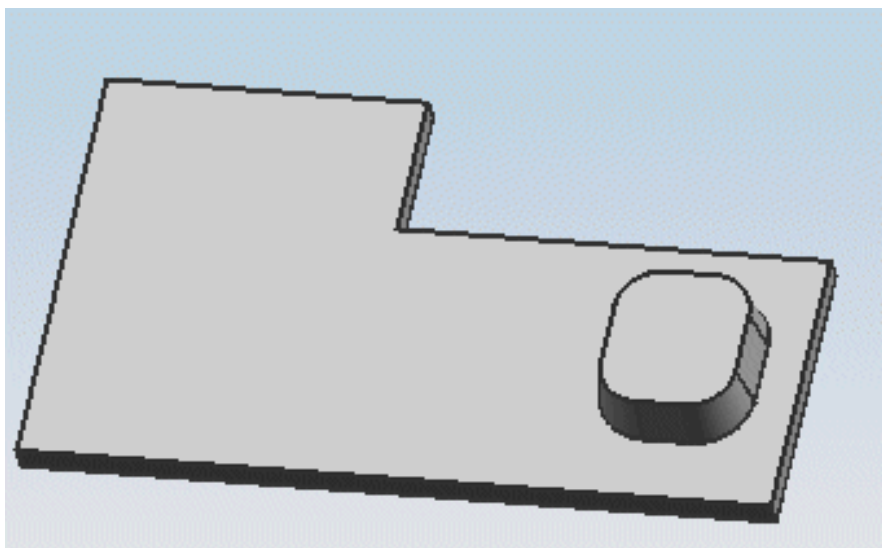




Dimple overview

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Use this command to construct an indentation in a sheet metal part. You use a sketched profile as the dimple outline. Like **Drawn Cutout**, **Dimple** makes an indentation in the sheet metal part, using a sketched profile as its outline. The principal difference between the two is that a dimple has a bottom and a drawn cutout doesn't. Dimples can't be flattened.



Where do I find it?

Application	NX Sheet Metal
Toolbar	NX Sheet Metal→Punch list  →Dimple
Menu	Insert→Punch→Dimple



Create a dimple

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1. Click **Dimple**



2. Pick the profile plane.
3. To create the dimple profile, select an existing sketch, or define a new one using the options from the dialog.

If you use an open profile, its open ends must intersect part edges. If you create an open profile where the curves don't intersect the outer edges of the part, the software extends the ends of the profile curves tangentially until they either intersect one another or intersect the edges of the part. A closed profile can't touch any part edges.

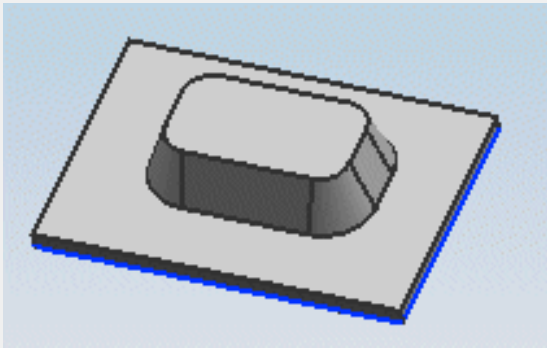
4. (For open profiles only) Double-click the side handle to specify the side of the profile to move during the **Dimple** operation.
5. Set the dimple depth.
6. Set wall, dimension, and rounding options, if any.
7. Click **OK** to finish the feature.

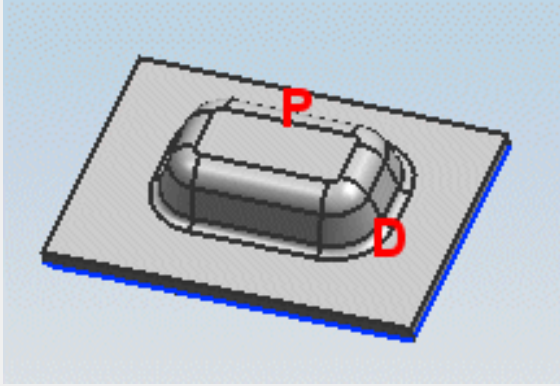


Dimple options

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The following options are available for **Dimple**:

Dimple Properties	
Depth	Specifies the extent of the dimple.
Reverse Direction 	Changes the direction of the dimple from up to down and vice versa.
Side Angle	Specifies the taper angle for the dimple. (The angle is measured relative to the default sidewall angle of 90 degrees.) The dimple in the following figure has a side angle of 20 degrees. The section corners have been rounded (the original profile sketch was rectangular), but there's no rounding for die or punch. 
Depth Reference	 • Inside measures the dimension from the selected face to the near side of the feature.  • Outside measures the dimension from the selected face to the far side of the feature.

Sidewalls	• Material Outside specifies that the sidewalls for the dimple are constructed so that they lie outside the profile. • Material Inside specifies that the sidewalls for the dimple are constructed so that they lie inside the profile.
Rounding	
Round Dimple Edges	Lets you supply values for the dimple's punch and die radii.
Punch Radius	Specifies the radius value at the bottom of the dimple (P below). 
Die Radius	Specifies the radius value at the base of the dimple (D above).
Round Section Corners	Specifies that you want to round any sharp corners in the profile. This option allows you to draw the profile without arcs. If you choose this option, you must supply a Corner Radius . You can't select this option If you use a circular profile.