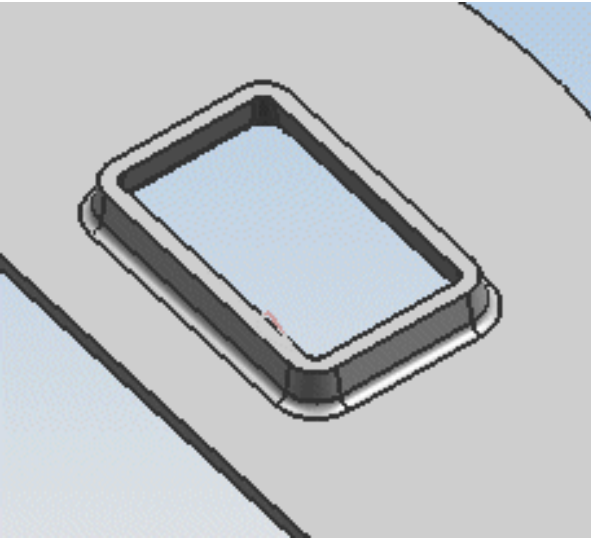




Drawn Cutout overview

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Use this command to construct a sheet metal drawn cutout.



Like **Dimple**, **Drawn Cutout** 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. Drawn cutouts can't be flattened.

Where do I find it?

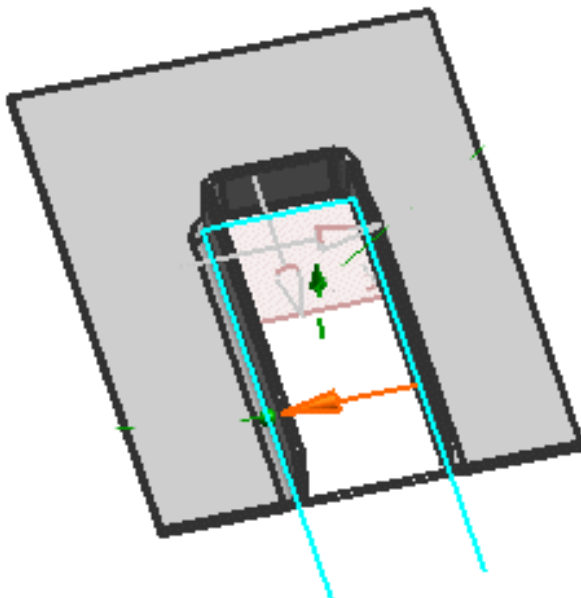
Application	NX Sheet Metal
Toolbar	NX Sheet Metal→Punch list  →Drawn Cutout
Menu	Insert→Punch→Drawn Cutout

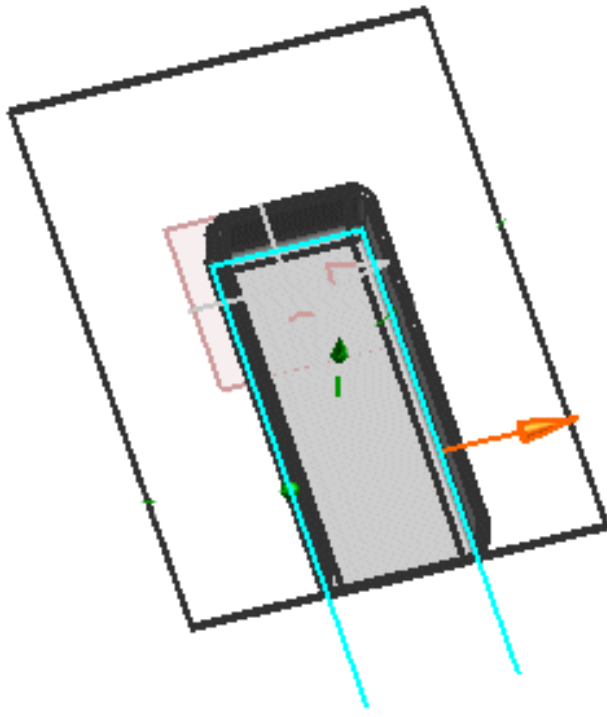


Create a drawn cutout

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1. Click **Drawn Cutout**.
2. Select the profile plane.
3. To create the drawn cutout profile, select an existing sketch, or create a new one. If you use an open profile, the open ends of the profile must intersect part edges. A closed profile can't touch any part edges.
4. (For open profiles only) Double-click the side handle to select the side of the profile to move during the **Drawn Cutout** operation. The following graphics show how the side handle direction affects the way the feature is created.





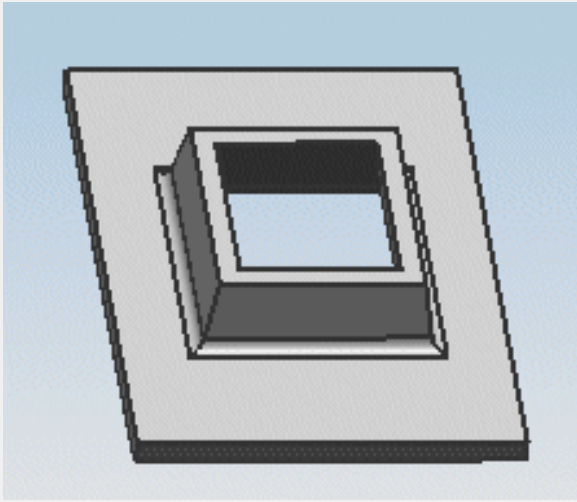
5. Set the depth of the drawn cutout.
6. Set wall, dimension, and rounding options, if any.
7. Click **OK** to finish the feature.



Drawn Cutout options

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The following options are available for **Drawn Cutout**:

Cutout Properties	
Depth	Specifies the extent of the cutout.
Reverse Direction 	Changes the direction of the cutout to the opposite side of the base part.
Side Angle	Specifies the taper angle for the cutout. (The angle is measured relative to the default sidewall angle of 90 degrees.) The drawn cutout in the following figure has a taper angle of 10 degrees. It displays rounding of cutout edges (die radius with a fillet of 2 degrees). Section corners haven't been rounded. 

Sidewalls	• Material Outside specifies that the sidewalls for the dutout are constructed so that they lie outside the profile. • Material Inside specifies that the sidewalls for the cutout are constructed so that they lie inside the profile.
Rounding	
Round Cutout Edges	Lets you supply values for the cutout's die radius.
Die Radius	Specifies the radius value at the base of the cutout. The figure on the left shows no rounding.; the figure on the right has rounded cutout edges (radius 2 mm) and rounded section corners (also 2 mm radius).
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.(See the graphic on the right, above.) You can't select this option If you use a circular profile.