



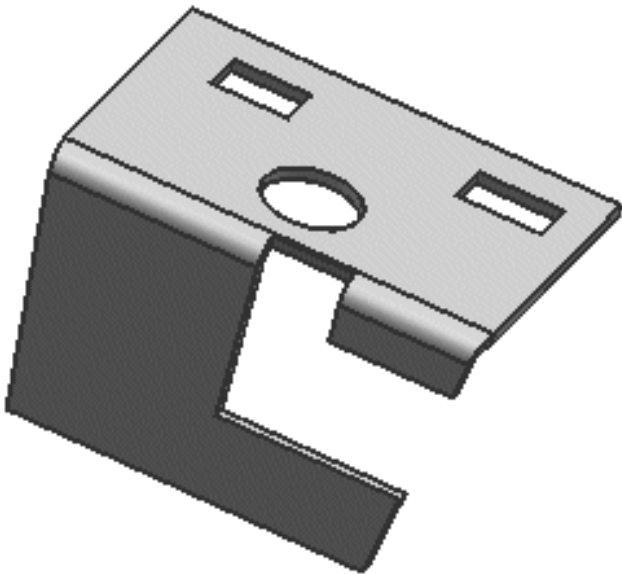
Bend Taper overview

Overview

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Use the **Bend Taper** command to create tapered edges on the sides of bend-web regions. You can also apply this feature to bend areas of flanges, contour flanges, jogs, or to any other bend-web region. You can taper only the bend region, only the web, or both. You can create this feature on split faces, as shown in the following figure. In this case, the taper is applied symmetrically, with the bend region at a 15 degree angle and the web at a 10 degree angle.



Where do I find it?

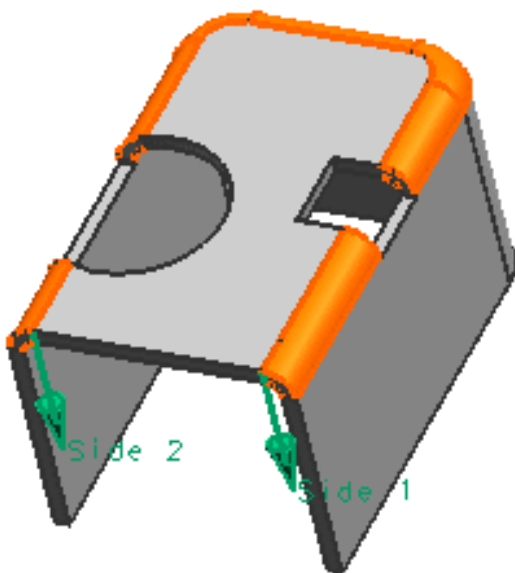
Application	NX Sheet Metal
Toolbar	NX Sheet Metal→Cut list  →Bend Taper
Menu	Insert→Cut→Bend Taper



Create a taper on a bend and web area

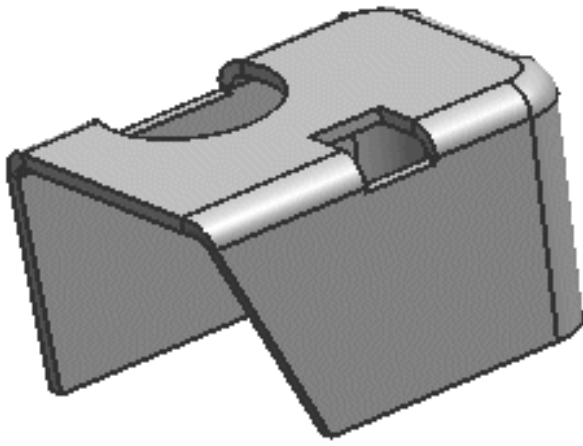
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1. On the **NX Sheet Metal** toolbar, from the **Cut** list, select **Bend Taper** , or choose **Insert**→**Cut**→**Bend Taper**.
2. Select the bend face, as shown. The green arrows indicate the edges of the bend and web areas that will be tapered.



3. Specify **Taper Properties**: indicate how you want the sides tapered, and whether you want only the bend face, bend face and adjacent face, or all chained bends and faces.
4. Supply taper angle values for the bend region and web region. If you chose **Both** (not **Symmetric**) you need to supply taper and web angles for **Side 1** and **Side 2**.
5. Click **OK**.

In the following figure, **Bend/Face** and **Both** were selected, and **Side 1** was tapered more than **Side 2**.

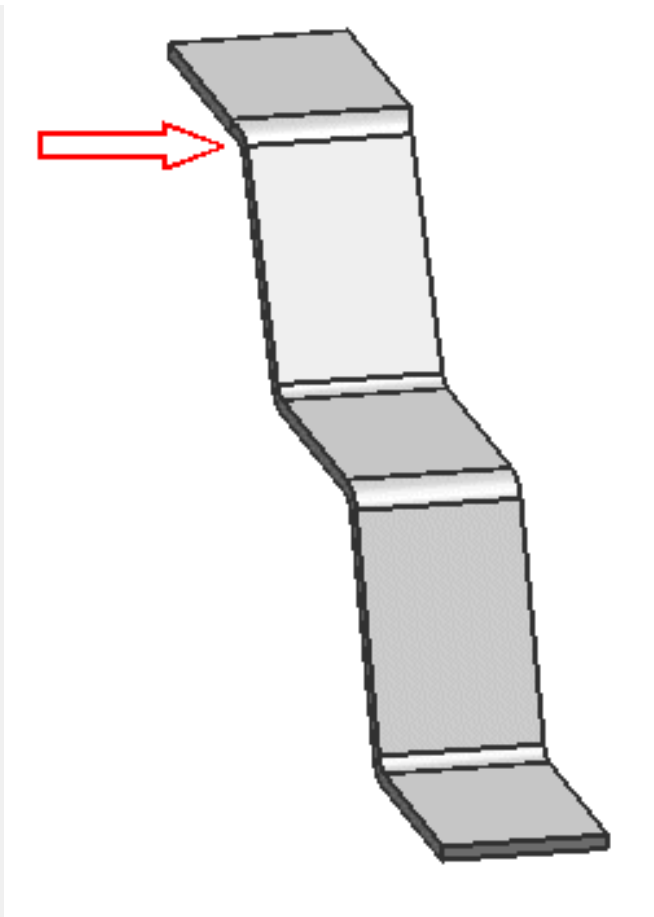




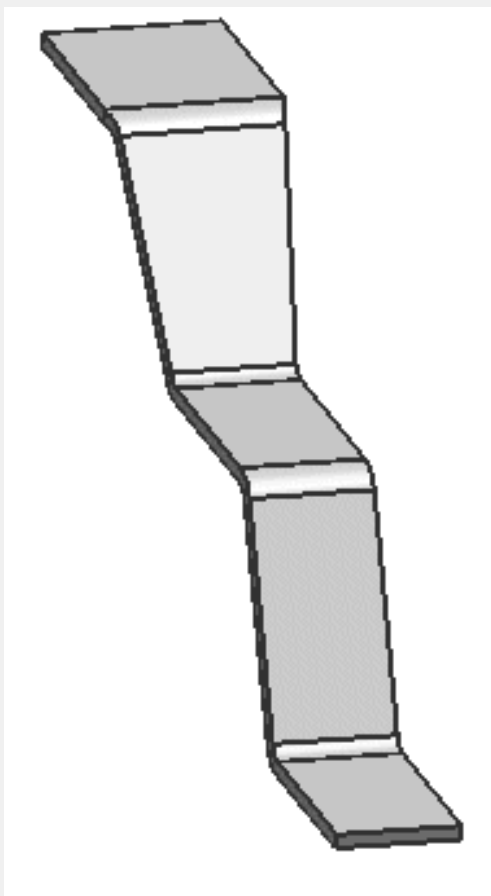
Bend Taper options

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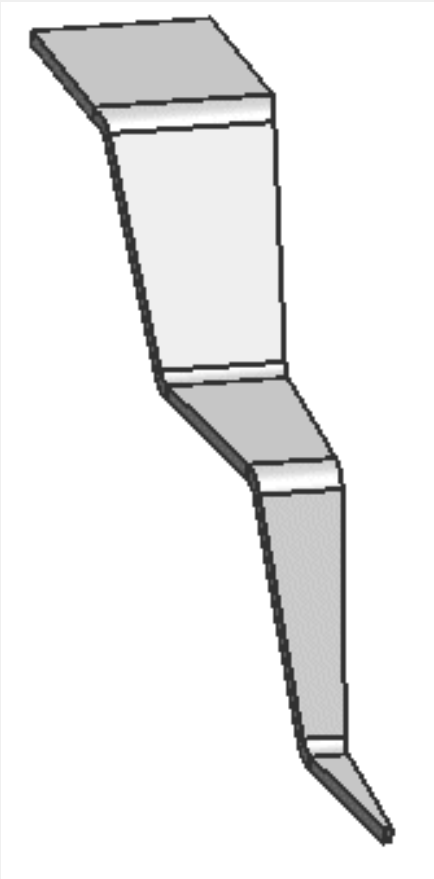
Bend Face	
Select Bend Face	Lets you select the bend face that you want to taper. The green arrows point in the direction of the web areas that will be tapered as well. 
Taper Properties	
Taper Sides	Both lets you taper both ends of the bend-web region, supplying different values for each end.
	Side 1 specifies that only the first side is tapered. (Sides are identified in the graphics window.)
	Side 2 specifies that only the second side is tapered.
	Symmetric tapers both sides equally, so Bend and Web Angle values are only available for Taper Side 1 .
Chaining	Bend Only applies the same taper angle to the bend face and web faces. In the graphic, Symmetric is selected and the taper angle is 15 degrees. The red arrow points to the selected bend face.



Bend/Face tapers the bend and adjacent web face.

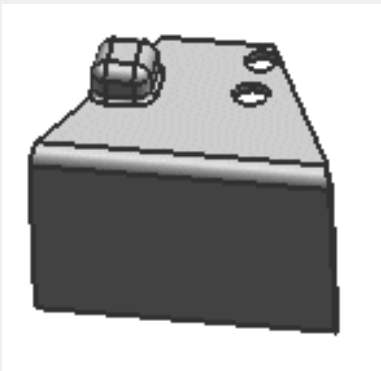
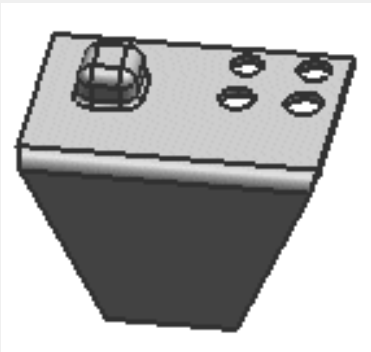


Bend/Face Chain tapers the bend and all web and bend faces in the chain at the same angle.



Reverse Direction

Specifies that the web on the opposite side of the bend region is tapered. This option is only available if more than one choice is possible. In the following graphics, the figure on the left shows the taper in the default direction, and the figure on the right shows the direction reversed.



Taper Angle Side 1

Bend

Specifies the taper angle for the bend face. Applies to both bend faces if **Symmetric** is selected, and the first side if **Side 1** is selected.

Web

Specifies a taper angle for the first side of the web face.

Taper Angle Side 2 (only available if **Both** or **Side 2** is selected).

Bend

Specifies the taper angle for the second side of the bend face.

Web

Specifies a taper angle for the second side of the web face.