



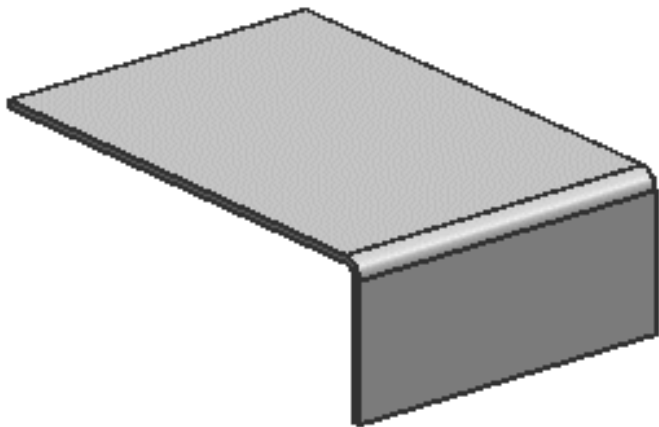
Flange overview

Overview

[How To](#)

[Options](#)

With **Flange**, you can quickly construct simple bent or "flanged" areas. A flange consists of a cylindrical region known as the "bend" region, and a rectangular region known as the "web." **Flange** also has options for an offset, which creates an extension of the base feature to which the flange is attached. You can set the radius and angle of the flange and specify options for the flange width, the inset distance, and the length of the web area. You can also control the sketch that is used to define the shape of the web portion of the flange.



Where do I find it?

Application	NX Sheet Metal
Toolbar	NX Sheet Metal→Bend list  →Flange
Menu	Insert→Bend→Flange



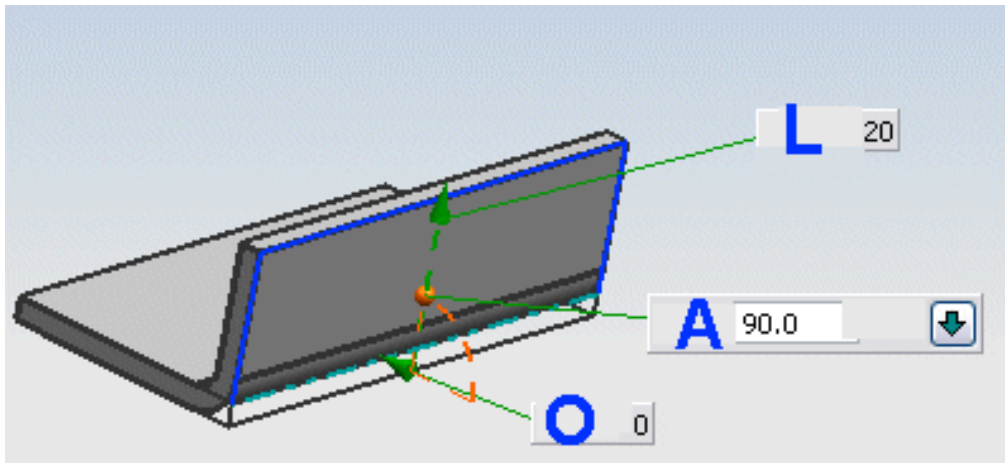
Create a flange

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1. Click **Flange**



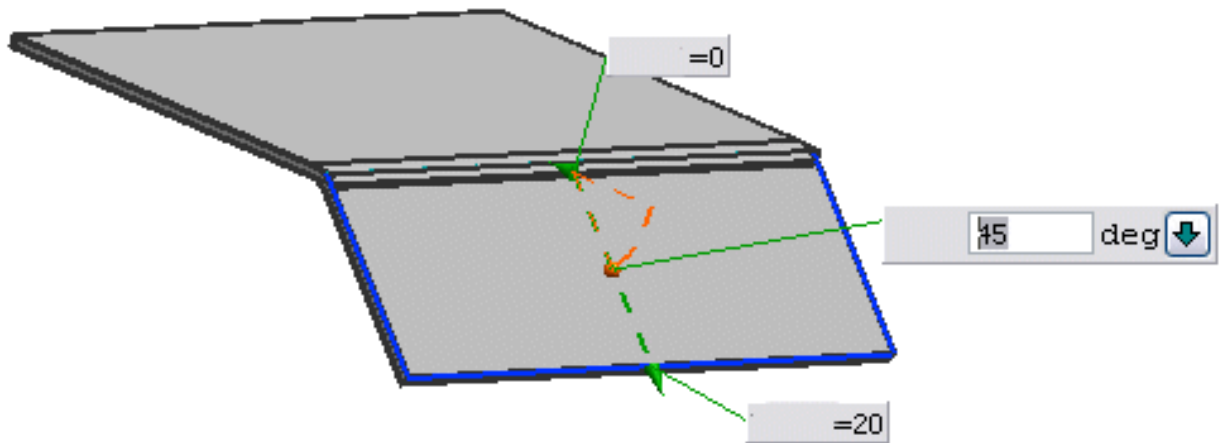
2. Select the edge to which you want to add a flange . If you select the top edge, the flange defaults to up, as shown; if you select the bottom edge, the flange points down. To reverse the direction, double-click on the length drag handle, or click **Reverse Direction** .



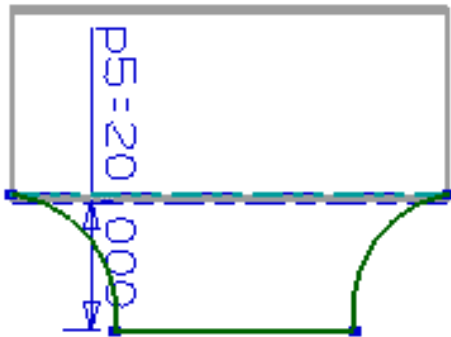
3. Define the flange length: pull the up arrow (L in the figure) to the desired length, or enter the length in the input field.
4. Set flange angle (A) and offset (O), or accept the defaults.
5. Select flange options, if any.
6. Click **OK** to finish the flange.

You can create more complex flanges by editing the flange profile:

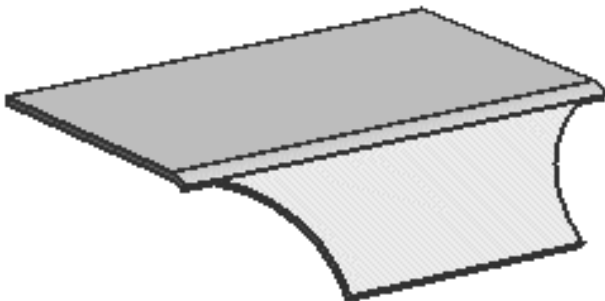
1. Follow steps 1 and 5 above.



2. Under **Section**, click **Edit Sketch**.
3. Draw the new profile and trim the old one. Make sure that you have a closed profile.



4. Click **OK** to complete the feature.





Flange options

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Width lets you specify how you want the flange width to be measured.

Full Width	Constructs the flange along the full width of the edge you select.
At Center	Constructs a flange that is centered on the edge you select. You can edit the dimensional value of the flange width and the flange remains centered. The default width is one third the length of the edge you select.
At End	Constructs the flange starting at the end you select.
From Both Ends	Constructs the flange width using dimensions from both ends of the edge you select. The default width is one-third of the edge width.
From End	Constructs the flange using a dimension from the end of the edge you select.

Flange Properties	
Length	Specifies the flange length. You can supply a value, an expression, a reference, and so on.
Reverse Direction	Changes the flange direction (from down to up or vice versa).
Angle	Specifies the angle of the flange in relation to the base part.

Length Reference	Specifies how the web length is measured. Inside Dimension  measures the flange from the inside of the existing material. Outside Dimension  measures from the outside.
Inset	Specifies how far the flange is inset into the base part. Material Inside : The flange is inset into the base material such that the outside face of the web area is flush with the selected edge. Material Outside : The flange is inset into the base material such that the inside face of the web area is flush with the selected edge. Bend Outside : Material is added to the selected edge to form the flange.
Offset creates an extension of the base feature to which the flange is attached. You have the usual options for supplying a value.	
Reverse Direction 	Changes the direction off the offset, that is, converts the extension to a reduction (negative value).

You can also modify the default [bend parameters](#) and **Preview**  the result.