





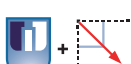



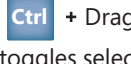









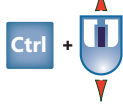






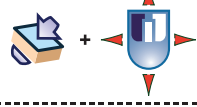


















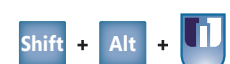













 Select	
 Single-click	Click to select one object
 Double-click	Double-click to cycle through Face / Edge / Curve loops
 Triple-click	Triple-click to select all the faces of a body
 Ctrl + Click	Add or remove an object from the selection
 Shift + Click	Select all objects between the original selection and this object
 Alt + Click	Select a driving or alternate object for many tools (in blue)
 + 	Select all objects completely within the box
 + 	Select all objects partially within the box
 Ctrl + Drag	toggles selection
 Shift + Drag	adds to selection
 Scroll	Select other objects under the cursor
 Click + Drag	<ul style="list-style-type: none"> Click to get command menus Drag to invoke gesture shortcuts
	Use the Select-Bounds toolguide to stop the propagation of selected faces and edges
	Revert to the last set of selected items
 Esc	To exit current tool and return to selection

 Orient	
	
 Spin	
 Ctrl + 	
 Zoom	
 Scroll	
 Shift + 	 Pan
 + 	 Snap View
 Shift + 	Double-click
 H	 Home View
 +  V	Plane selected
 Double-click	
Anything selected +  Z	Zoom Fit selection
 Previous view	 Next view

 Dimension	
 Spacebar	Edit dimension while dragging
 Tab	Toggle between editable dimensions
 Shift + 	Hover over geometry to dimension from it while sketching
 Enter	<ul style="list-style-type: none"> Accept the dimension value Complete most tools
 Shift + Alt + 	Create temporary objects
 	Create a linear / angular ruler dimension
 Ctrl + G	Create Group and store ruler dimension
 14.75	Drive a ruler dimension with an Annotation dimension
 U	Select an Up To reference

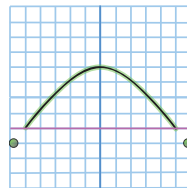
 Files	
 Ctrl + S	Save
 Ctrl + Shift + S	Save As
 Alt + Shift + S	Save As New Version

Sketch & Section

	<ul style="list-style-type: none"> Select sketch curves and use model edges Select faces and edges by their section lines and points
	Drag sketch and section curves
	Move and Rotate curves

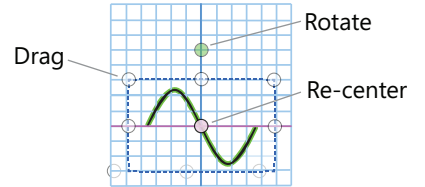
Splines

Select entire spline to move



- Add spline point
- Remove spline point
- Measure curvature
- Drag endpoint tangency

Scale/Rotate



☐ Fix Aspect Ratio  Reorient Box

Ctrl

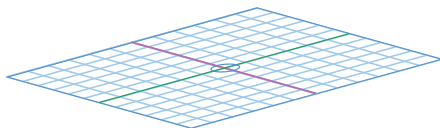
- Press to copy in Drag and Move
- Toggle extension indicators

Shift

- Toggle snapping to grid
- Grab dimension reference

Esc

- Cancel an in-progress action



Back to 3D



New sketch grid location (re-select)



Move sketch grid



Plan View

Snap



On Curve



Grid Point



Mid Point

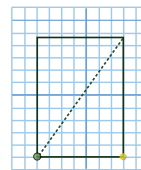
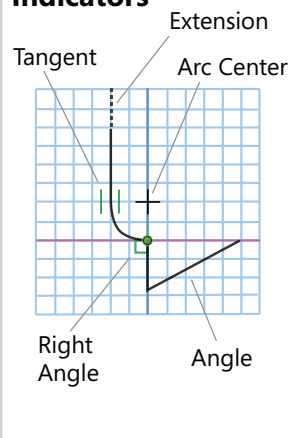


End Point



Multiple Snap Types

Indicators



Golden Rectangle




Square

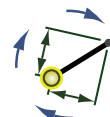
Dimension Anchors




Select reference curve or point [also with **Shift**]



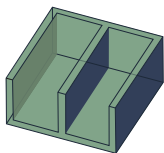
Move dimension base point [also with blue circle 



Change dimension reference angle [also with blue line 

Associations

Offset & Shell



Create with  and  tools

☐ Show offset baseline faces

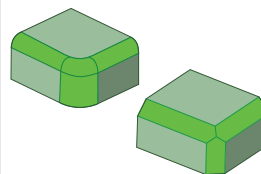
Pull option: ☐ Maintain offset

Change face property: None

Change face offset

This face
Other face
Center

Round & Chamfer

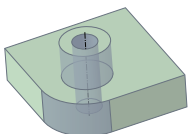


Create by pulling  edges

Toggle with  +  + 

Remove with  or by changing face property

Coaxial

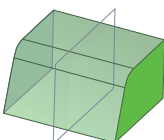



Create:  + Create Coaxial Group




Remove:  + Remove from Coaxial Group

Change:  + Set Cylinder Diameter

Mirror

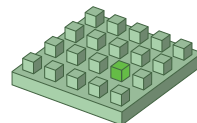
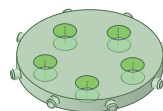



Set up: face + face + 

Add to:  then  or  **Ctrl**

Remove:  then  **Ctrl**

Pattern



Create with  Move + ☒ Create Patterns

Remove with  + Unpattern Member

Works on:

- Solids, surfaces, curves, planes, beams
- Protrusions and depressions
- Components
- Imported features of interest

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