DESIGNSPARK MECHANICAL

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 +	Add or remove an object from the selection	
Shift +	Select all objects between the original selection and this object	
Alt +	Select a driving or alternate object for many tools (in blue)	
+	Select all objects completely within the box	Ctrl + Drag toggles selection
+	Select all objects partially within the box	Shift + Drag adds to selection
Scroll	Select other objects under the cursor	
+ Drag	• 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	Zoom
Shift +	Pan
+	Snap View
Shift + Double-click	Snap View
H	Home View
+ V Plane selected	Plan View
Double-click	Zoom Fit selection
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	• 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
Ctrl + Alt + S	Save As New Version

Sketch ✏️ & Section ▦

(Selection arrow)
- Select sketch curves and use model edges
- Select faces and edges by their section lines and points

(Move cursor)
Drag sketch and section curves
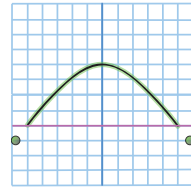
(Move and Rotate icon)
Move and Rotate curves

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
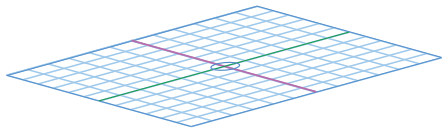
Back to 3D
New sketch grid location (re-select)
Move sketch grid
Plan View

Splines

Select entire spline to move

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

Scale/Rotate

Rotate
Drag
Re-center

☐ Fix Aspect Ratio   ⟳ Reorient Box

Snaps

On Curve	Grid Point	Mid Point	End Point	Multiple Snap Types

Indicators

Extension
Tangent
Arc Center
Right Angle
Angle

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

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

Mirror

Set up: face + face + 💥🧊

Add to: 🧊 then — Select plane
or Body
Faces **Ctrl**

Remove: ✗ 🧊 then
Faces **Ctrl**