






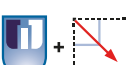











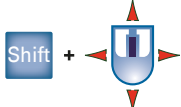
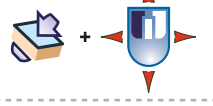




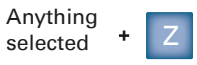


















This Quick Reference Card (QRC) is a look-up of the most useful shortcuts relevant to the main features of DesignSpark Mechanical. This is an overview that compliments our detailed tutorials and resources. We recommend you print this QRC and use it when transforming your next big idea into a real concept design.

|  <b>Select</b> |   |
|---|---|
|  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)   |
|  Click in box | Select all objects completely within the box  |
|  Click in box | Select all objects partially within the box   |
|  Scroll       | Select other objects under the cursor   |
|  Click + Drag | <ul style="list-style-type: none"> <li>Click to get command menus</li> <li>Drag to invoke gesture shortcuts</li> </ul>  |
|              | <ul style="list-style-type: none"> <li>Exit current tool and return to selection</li> <li>Click drop-down arrow for more options such as area and boundary selection</li> </ul> |
|              | Revert to the last set of selected items  |
|  Esc         | To exit current tool and return to selection  |

|  <b>Orient</b>           |   |
|---|---|
|                          | Spin  |
|  Ctrl + Click            |  Zoom<br> Scroll |
|  Shift + Four-way arrow  |   |
|                        | Snap View   |
|  Double-click          | Double-click  |
|  H                     | Home View   |
|  Plane selected        | Plan View   |
|  Double-click          | Zoom Fit selection  |
|  Anything selected + Z |   |
|  Previous view         |  Next view  |

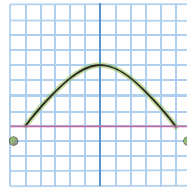
|  <b>Dimension</b>       |   |
|--|---|
|  Spacebar               | Edit dimension while dragging   |
|  Tab                    | Toggle between editable dimensions  |
|  Shift + Click          | Hover over geometry to dimension from it while sketching  |
|  Enter                  | <ul style="list-style-type: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

|  <b>Files</b>     |                     |
|--|---------------------|
|  Ctrl + S         | Save                |
|  Ctrl + Shift + S | Save As             |
|  Ctrl + Alt + S   | Save As New Version |

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

## Snap



On Curve



Grid Point



Mid Point

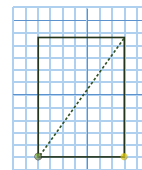
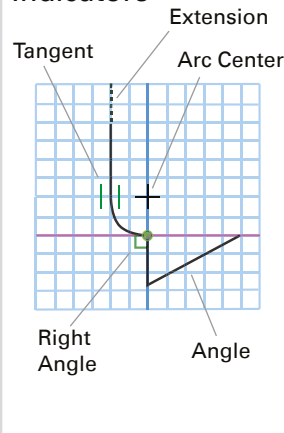


End Point



Multiple Snap Types

## Indicators



Golden Rectangle



Square

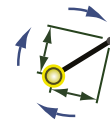
## Dimension Anchors



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



Move dimension base point [also with blue circle]

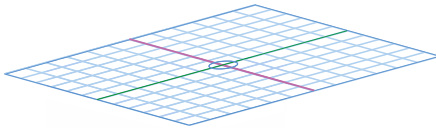


Change dimension reference angle [also with blue line]

**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)



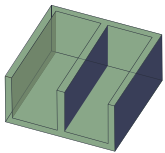
Move sketch grid



Plan View

## Associations

### Shell



Create with tool

☐ Show offset baseline faces

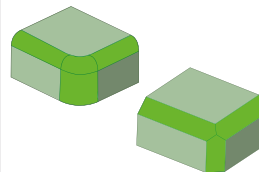
Pull option: ☐ Maintain offset

Change face property: **None**

Change face offset

This face  
Other face  
Center

### Round & Chamfer

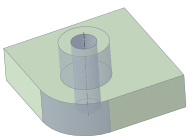


Create by pulling edges

Toggle with +

Remove with or by changing face property

### Coaxial

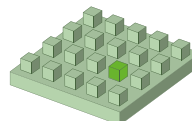
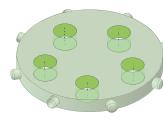


Create: + Create Coaxial Group

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