

Large Tool Set

- Select (Spacebar) Lasso
- Paint Bucket (B) Eraser (E)
- Make Component Tag
- Line (L) Freehand
- Rectangle (R) Rotated Rectangle
- Circle (C) Polygon
- Arc 2 Point Arc (A)
- 3 Point Arc Pie
- Move (M) Push/Pull (P)
- Rotate (Q) Follow Me
- Scale (S) Offset (F)
- Tape Measure (T) Dimensions
- Protractor Text
- Axes 3D Text

- Flip Field of View
- Orbit (O) Pan (H)
- Zoom (Z) Zoom Window
- Zoom Extents Previous
- Position Camera Walk
- Look Around Section Plane

Solid Tools

- Outer Shell Intersect (Pro)
- Union (Pro) Subtract (Pro)
- Trim (Pro) Split (Pro)

Sandbox (Terrain)

- From Contours From Scratch
- Smoove Stamp
- Drape Add Detail
- Flip Edge

Standard Views

- Iso
- Front
- Back
- Top
- Right
- Left

Style

- X-Ray
- Wireframe
- Shaded
- Monochrome
- Back Edges
- Hidden Line
- Shaded with Textures

Dynamic Components

- Interact
- Configurator Tool
- Component Attributes

Location

- Add Location
- Toggle Terrain

Warehouse

- 3D Warehouse
- Share Component
- Send to LayOut (Pro)
- Extension Warehouse
- Share Model
- Classifier (Pro)

Middle Button (Wheel)


- Scroll Zoom
- Click-Drag Orbit
- Shift+Click-Drag Pan
- Double-Click Re-center view

Tool	Operation	Instructions
2 Point Arc (A)	Bulge	specify bulge amount by typing a number and Enter
	Radius	specify radius by typing a number, the R key, and Enter
	Segments	specify number of segments by typing a number, the S key, and Enter
3 Point Arc	Alt + Arrows	use Option '+' or Option '-' to change the number of segments. lock direction: up = blue, right = red, left = green, and down = parallel/perpendicular
Circle (C)	Shift	lock current inferences
	Radius	specify radius by typing a number and Enter
	Segments	specify number of segments by typing a number, the S key, and Enter
Eraser (E)	Ctrl	soften/smooth (use on edges to make adjacent faces appear curved)
	Shift	hide
	Alt	unsoften/unsmooth
Field of View		drag the mouse or manually enter a value using the Field of View box
Follow Me	Alt	use face perimeter as extrusion path
	<i>Expert Tip!</i>	first Select path, then choose the Follow Me tool, then click on the face to extrude

Flip		click the plane to control the direction of the flip operation
	Ctrl	toggle between flip and copy
Lasso	Shift	add/subtract from selection
	Alt	add to selection
	Shift+Alt	subtract from selection
Line (L)	Alt	lock in current inference direction
	Arrows	lock direction; up = blue, right = red, left = green, and down = parallel/perpendicular
	Length	specify length by typing a number and Enter
Look Around	Eye Height	specify eye height by typing a number and Enter
Move (M)	Ctrl	toggle copy mode, allows multiple consecutive
	Shift	hold down to lock in current inference direction
	Alt	auto-fold (allow move even if it means adding extra edges and faces)
	Arrows	lock direction; up = blue, right = red, left = green, and down = parallel/perpendicular
	Distance	specify move distance by typing a number and Enter
	External Copy Array	X copies in a row: move first copy, type a number, the X key, and Enter
	Internal Copy Array	X copies in between: move first copy, type a number, the / key, and Enter
Offset (F)	Alt	allow results to overlap
	Distance	specify an offset distance by typing a number and Enter
Orbit (O)	Alt	hold down to disable "gravity-weighted" orbiting
	Shift	hold down to activate Pan tool
Paint Bucket (B)	Ctrl	fill material – paint all matching adjacent faces
	Shift	replace material – paint all matching faces in the model
	Ctrl+Shift	replace material on object – paint all matching faces on the same object
	Alt	hold down to sample material
Protractor	Ctrl	toggle guide creation
	Arrows	toggle lock rotation plane
Push/Pull (P)	Ctrl	push/pull a copy of the face (leaving the original face in place)
	Double-Click	apply last push/pull amount to this face
	Distance	specify a push/pull amount by typing a number and Enter
Rectangle (R)	Alt	start drawing from center
	Dimensions	specify dimensions by typing length, width and Enter (<i>ie. 20,40</i>)
Rotated Rectangle	Shift	lock in current direction/plane
	Alt	lock drawing plane for first edge (after first click)
	Dimensions, Angle	click to place first two corners, then type width, angle and Enter (<i>ie. 90,20</i>)
Rotate (Q)	Ctrl	rotate a copy
	Angle	specify an angle by typing a number and Enter
	Slope	specify an angle as a slope by typing a rise, a colon (:), a run, and Enter (<i>ie. 3:12</i>)
Scale (S)	Ctrl	hold down to scale about center
	Shift	hold down to scale uniformly (don't distort)
	Amount	specify a scale factor by typing a number and Enter (<i>ie. 1.5 = 150%</i>)
	Length	specify a scale length by typing a number, a unit type, and Enter (<i>ie. 10m</i>)
Search (Shift+S)		search SketchUp command list for tools or commands
Select (Spacebar)	Ctrl	add to selection
	Shift	add/subtract from selection
	Ctrl+Shift	subtract from selection
Tape Measure (T)	Ctrl	toggle create guide or measure only
	Arrows	lock direction; up = blue, right = red, left = green, and down = parallel/perpendicular
	Resize	resize model: measure a distance, type intended size, and Enter
Zoom (Z)	Shift	hold down and click-drag mouse to change Field of View