

Large Tool Set

Select (Spacebar) Make Component

Paint Bucket (B) Eraser (E)

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

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)

Dynamic Components

Interact Component Options

Component Attributes

Sandbox (Terrain)

From Contours From Scratch

Smoove Stamp

Drape Add Detail

Flip Edge

Standard Views

Iso Top

Front Right

Back Left

Style

X-Ray Back Edges

Wireframe Hidden Line

Shaded Shaded with Textures

Monochrome

Location

Add Location... Toggle Terrain

Photo Textures

Warehouse

3D Warehouse... Share Model...

Share Component... Extension Warehouse...

Send to LayOut (Pro) 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
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)	Option	soften/smooth (use on edges to make adjacent faces appear curved)
	Shift	hide
Follow Me	Option+Shift	unsoften/unsmooth
	Command	use face perimeter as extrusion path
Line (L)	<i>Expert Tip!</i>	first Select path, then choose the Follow Me tool, then click on the face to extrude
	Shift	lock in current inference direction
Look Around	Arrows	lock direction; up = blue, right = red, left = green, and down = parallel/perpendicular
	Length	specify length by typing a number and Enter
	Eye Height	specify eye height by typing a number and Enter
Move (M)	Option	move a copy
	Shift	hold down to lock in current inference direction
	Command	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	n copies in a row: move first copy, type a number, the X key, and Enter
Offset (F)	Internal Copy Array	n copies in between: move first copy, type a number, the / key, and Enter
	Command	allow results to overlap
Orbit (O)	Distance	specify an offset distance by typing a number and Enter
	Option	hold down to disable "gravity-weighted" orbiting
Paint Bucket (B)	Shift	hold down to activate Pan tool
	Option	fill material - paint all matching adjacent faces
Push/Pull (P)	Shift	replace material - paint all matching faces in the model
	Option+Shift	replace material on object - paint all matching faces on the same object
	Command	hold down to sample material
	Option	push/pull a copy of the face (leaving the original face in place)
Rectangle (R)	Double-Click	apply last push/pull amount to this face
	Distance	specify a push/pull amount by typing a number and Enter
Rotated Rectangle	Dimensions	specify dimensions by typing length, width and Enter ie. 20, 40
	Shift	lock in current direction/plane
	Command	lock drawing plane for first edge (after first click)
Rotate (Q)	Angle, Dimensions	click to place first two corners, then type angle, width and Enter ie. 90, 20
	Option	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 ie. 3:12
Scale (S)	Option	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 ie. 1.5 = 150%
Select (Spacebar)	Length	specify a scale length by typing a number, a unit type, and Enter ie. 10m
	Option	add to selection
	Shift	add/subtract from selection
Tape Measure (T)	Option+Shift	subtract from selection
	Option	toggle create guide or measure only
	Arrows	lock direction; up = blue, right = red, left = green, and down = parallel/perpendicular
Zoom (Z)	Resize	resize model: measure a distance, type intended size, and Enter
	Shift	hold down and click-drag mouse to change Field of View