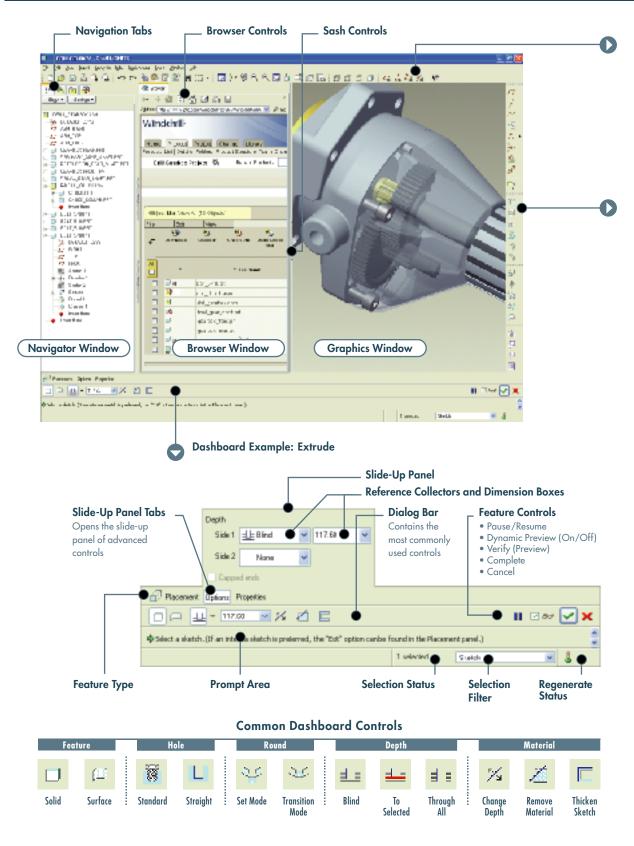


Pro ENGINEER[®] W I L D F I R E 2.0

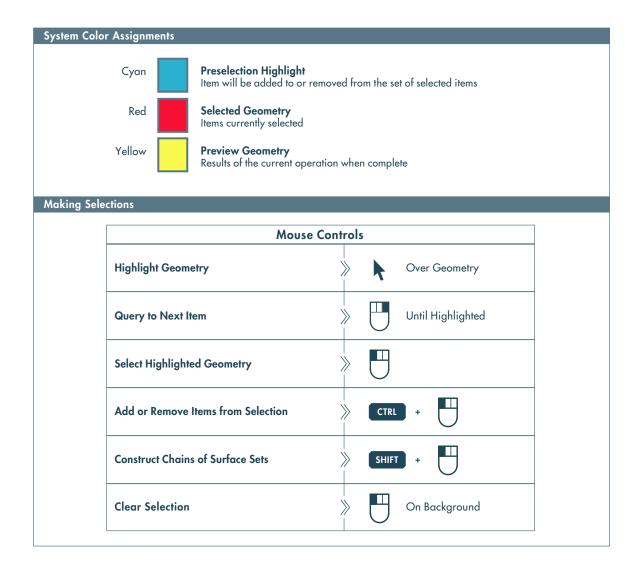
QUICK REFERENCE CARD



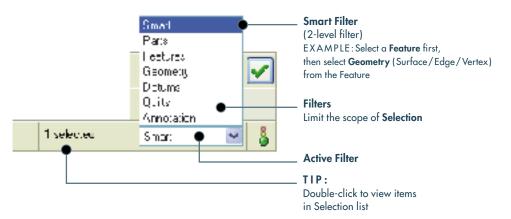
Main Toolbar 小武学品 R. 111 -😨 🤌 😨 ကက 👫 📇 🍰 ାର୍ ପ୍ରୁ ସ୍ άłΫ. កភេក 🗇 16 1. 6: 34 Wireframe Plane Undo **Regenerate Model** Repaint **Drag Component Reorient View** Сору Redo Paste Search Tool Spin Center Zoom In Saved Views Hidden line Axis Paste Special Selection Types **Orient Mode** Zoom Out No Hidden Point Layers Refit View Manager Shading **Coordinate System** Fdit View Model Display Datum Display **Feature Creation Toolbar Navigator Tabs Drawing Toolbar** Datum 1.6 := <u>۳</u> -e $A_{\rm T}$ θ. -**I**L ----÷ł≡. Plane D ĝe, 10 Axis 7 Set Drawing Model **Snap Lines Align Dimensions** Model Tree Favorites Update Views Show and Erase **Cleanup Dimensions** es e Curve Folder Browser Connections Standard Dimension **Drawing View** Note 83 Lock View Movement Sketch ×. * **Point Types** 12. 1/4 ᆍ 큠 差日日 1.0 40 ί The 4 **Browser Controls** ₩ **Coordinate System** (4 - 4 이 이 상 종 음 비 Standard Symbol Table Hyperlink dia ta Analysis **Repeat Formatting Custom Symbol** Update Table 00 Refresh Move Special **Cleanup Balloons** Back Print **Geometric Tolerance Datum Reference Change Sheet** Forward Home Save Stop History Annotation 4 Assembly Add Component Ľ 7 **Create Component Sketcher Toolbar Sheetmetal Toolbar** Pick/Place Select Items h Conversion 皆 Hole ٦r Line Types $\mathcal{N}_{\mathcal{C}}$ Flat Wall <u>8</u>., 1 Ē Shell Flange Wall 2. Rectanale Rib è Ø 0000 O **Unattached Wall Types** 10日日日日 **Circle Types** ഖ Draft 6 6 ٦.2 γc 22 Arc Types Sheetmetal Cut \$ Round 3 ÷ يد <mark>ليك</mark>يد Ł Fillet Types Extended Wall Chamfer * 븲 Spline r Bend Types Base Extrude P Point/Csys 34 Unbend/Bend Back $\mathbf{P}_{\mathbf{F}}$ 1. х Revolve ٥þ Ľ R, Entity from Edge Types C Relief/Punch/Notch/Rip/Merge 2 M Variable Section Sweep 1 $\simeq |\zeta|$ Form/Flatten Form/Deform Area (Φ_{22}) Dimension Æ **Boundary Blend** Flat Pattern **Modify Values** 6 7 æ Style . Constraints Editing IA. Text Mirror iľ **Keyboard Shortcuts** <u>،</u>۲، Trim Types Ъ Merge Сору Regenerate CTRL + GCTRL + C Mirror/Move-Rotate/Copy ρb 之口 Trim New File CTRL + N Paste CTRL + V **Complete Sketch** * Open File Undo Pattern . Redo Save File **Cancel Sketch** × Search CTRL + **F** Repaint Delete Standard View CTRL + D

Pro/ENGINEER ICON GUIDE

MAKING SELECTIONS







ADVANCED SELECTION: Chain and Surface Set Construction

DEFINITIONS

General Definitions

Chain

A collection of adjacent edges and curves that share common endpoints. Chains can be open-ended or closed-loop, but they are always defined by two ends.

Surface Set

A collection of surface patches from solids or quilts. The patches do not need to be adjacent.

Methods of Construction

Individual

Constructed by selecting individual entities (edges, curves, or surface patches) one at a time. This is also called the One-by-One method.

Rule-Based

Constructed by first selecting an anchor entity (edge, curve, or surface patch), and then automatically selecting its neighbors (a range of additional edges, curves, or surface patches) based on a rule. This is also called the Anchor/Neighbor method.

CONSTRUCTING CHAINS

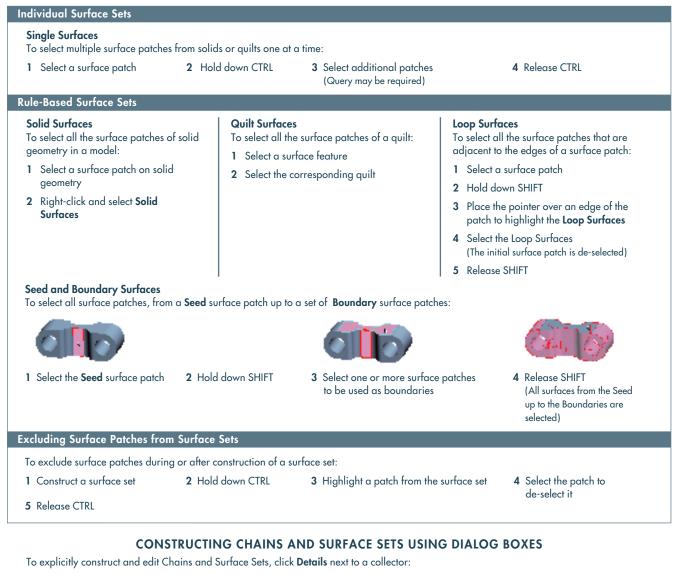
Individual Chains One-by-One

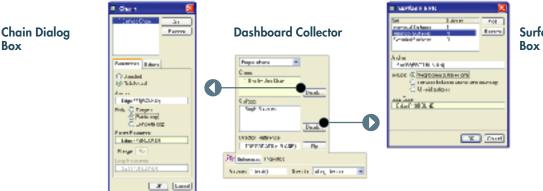
To select adjacent edges one at a time along a continuous path:

1 Select an edge 2 Hold dow	wn SHIFT 3 Select the edge again	4 Select adjacent edges 5 Release SHIFT
ule-Based Chains		
Tangent To select all the edges that are tangent to an anchor edge:	Boundary To select the outermost boundary edges of a quilt:	Surface Loop To select a loop of edges on a surface patch:
1 Select an edge	1 Select a one-sided edge of a quilt	1 Select an edge
2 Hold down SHIFT	2 Hold down SHIFT	2 Hold down SHIFT
3 Highlight Tangent chain (Query may be required)	3 Highlight Boundary chain (Query may be required)	 Highlight Surface chain (Query may be required)
4 Select tangent chain	4 Select boundary chain	4 Select surface loop
5 Release SHIFT	5 Release SHIFT	5 Release SHIFT
From-To To select a range of edges from a surface po		
1 Select the From edge 2 Hold dow	n SHIFT 3 Query to highlight the desired From-To chain	4 Select From-To chain 5 Release SHIFT
Nultiple Chains		
1 Construct initial chain 2 Hold dow	n CTRL 3 Select an edge for new c	hain
4 Release CTRL 5 Hold dow	n SHIFT 6 Complete new chain from	n selected edge



CONSTRUCTING SURFACE SETS

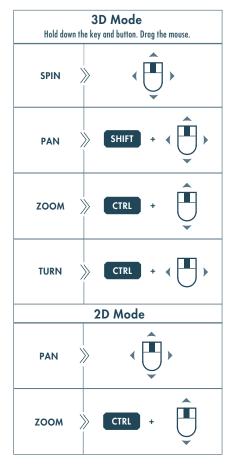


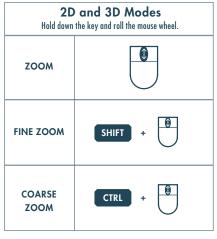


Surface Set Dialog Box

ORIENTING THE MODEL

DYNAMIC VIEWING







R

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Using the Spin Center

Click the icon in the Main Toolbar to enable the Spin Center.

- Enabled The model spins about the location of the spin center
- Disabled The model spins about the location of the mouse pointer

Using Orient Mode

Click the icon in the Main Toolbar to enable Orient mode.

- Provides enhanced Spin/Pan/Zoom Control
- Disables selection and highlighting
- Right-click to access additional orient options
- Use the shortcut: CTRL + SHIFT + Middle-click

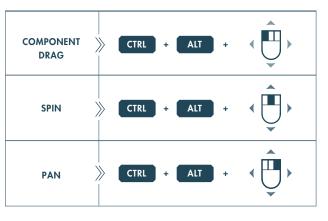
Using Component Drag Mode in an Assembly

Click the icon in the Main Toolbar to enable Component Drag mode.

- Allows movement of components based on their kinematic constraints or connections
- Click a location on a component, move the mouse, click again to stop motion.
- Middle-click to disable Component Drag mode

COMPONENT PLACEMENT CONTROLS

Allows reorientation of components during placement



Object Mode

Provides enhanced Spin/Pan/Zoom Control:

- 1 Enable Orient mode
- 2 Right-click to enable Orient Object mode
- 3 Use Dynamic Viewing controls to orient the component
- 4 Right-click and select Exit Orient mode

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