

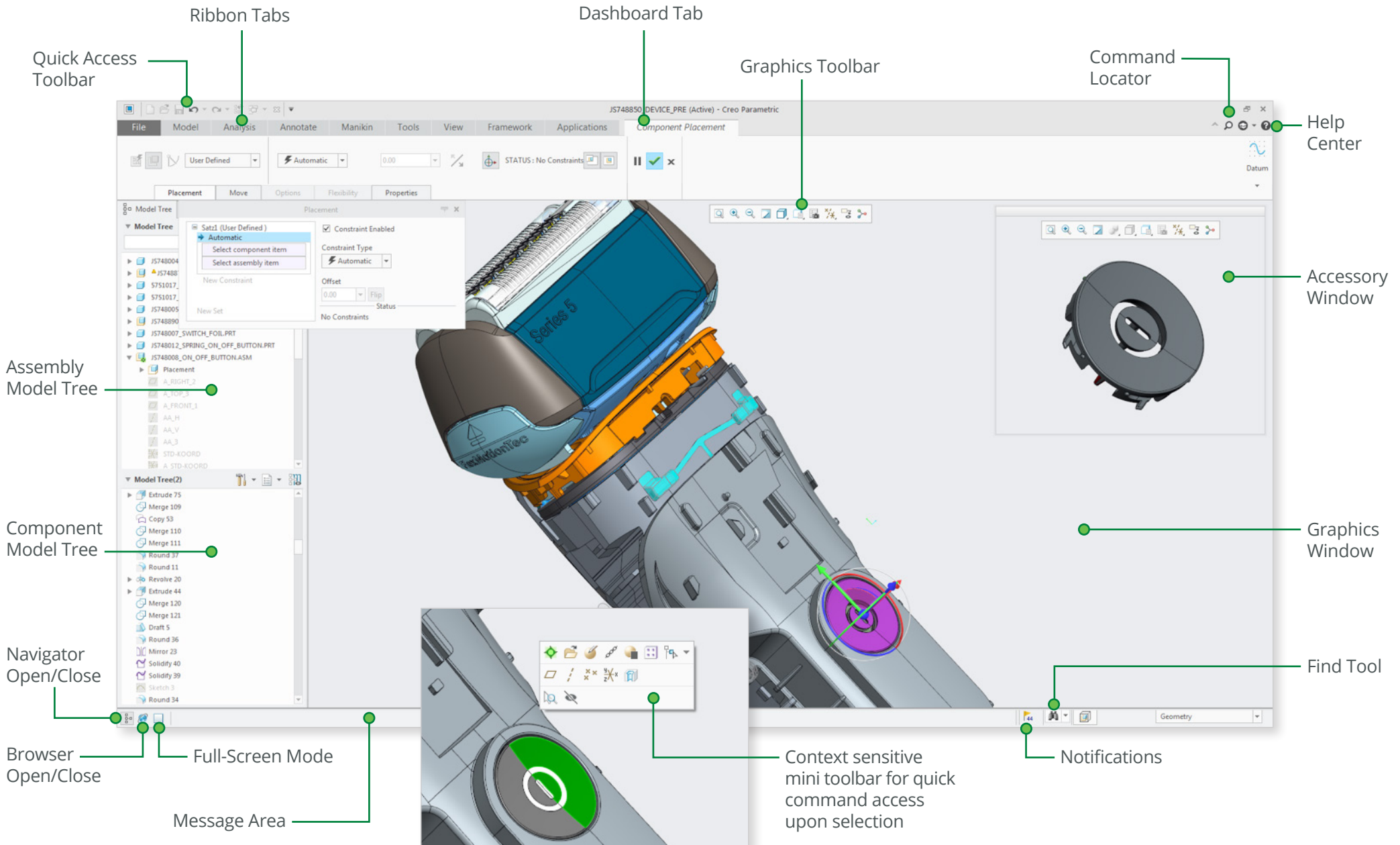
creo® parametric 4.0

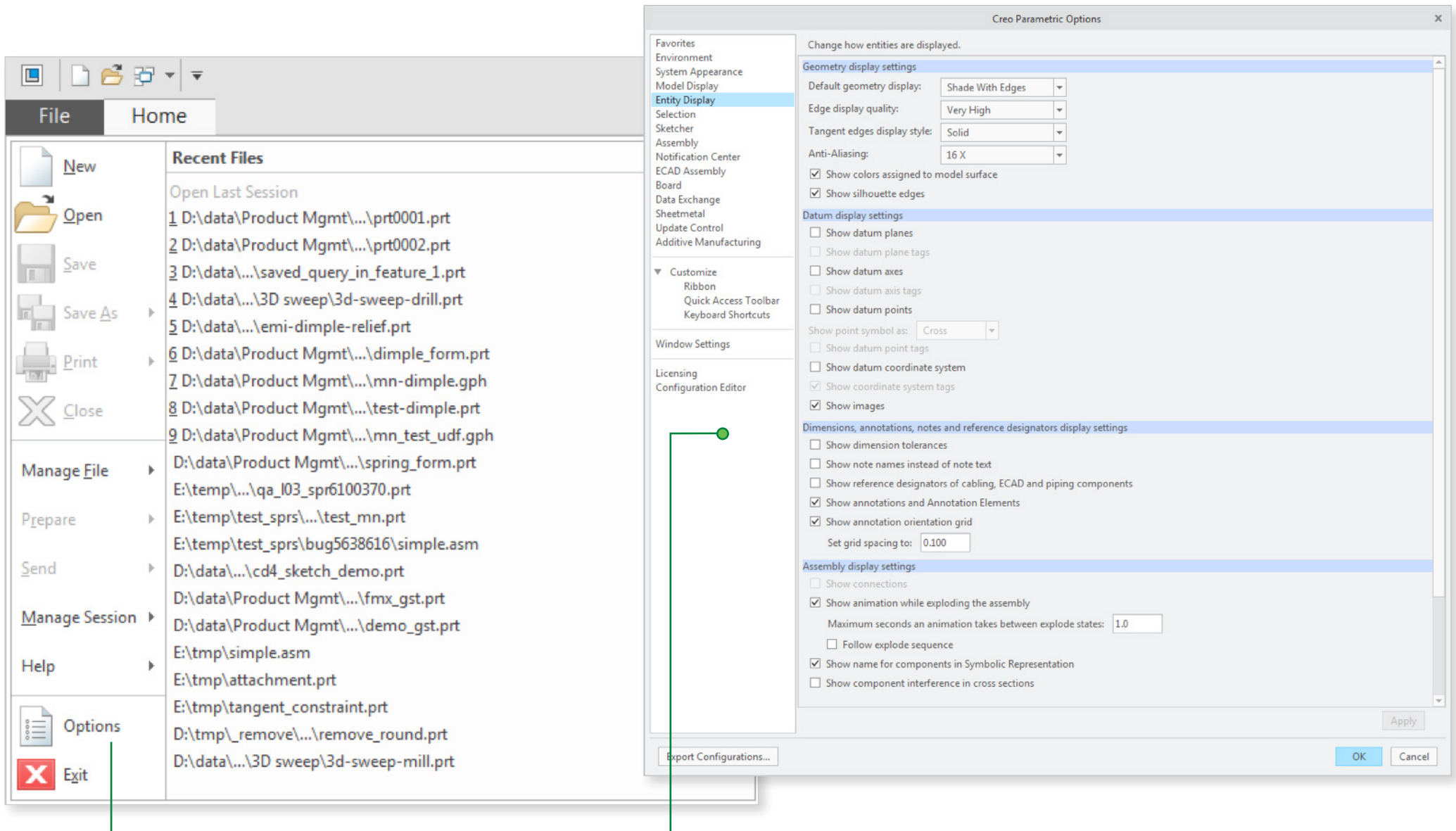
Quick Reference Card



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Common dashboard controls

Right-click on a command to add to Quick Access Toolbar or access ribbon customization dialog.

Right-click to edit the Graphics Toolbar

Mini Toolbar

Choose customize from RMB or mini toolbar to customize shortcut menus

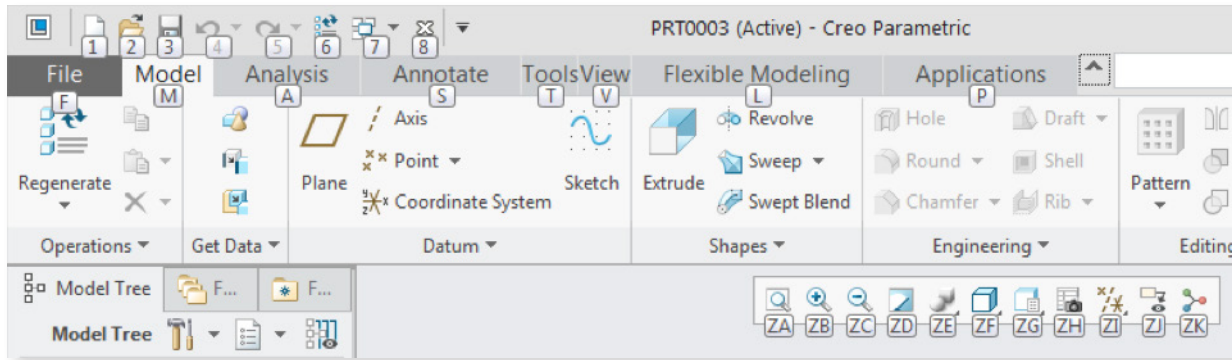
The image shows the following components and annotations:

- Graphics Toolbar:** A vertical toolbar on the right side of the ribbon. A right-click context menu is open over it, listing various view and display commands. A green dot and line point to the top of this menu with the text "Right-click to edit the Graphics Toolbar".
- Mini Toolbar:** A small floating toolbar that appears over a 3D model. A green dot and line point to it with the text "Mini Toolbar".
- Creo Parametric Options Dialog:** A dialog box titled "Creo Parametric Options" is open, showing the "Customize: Ribbon" tab. A green dot and line point to the "Customize the Ribbon" option in the ribbon's right-click context menu with the text "Choose customize from RMB or mini toolbar to customize shortcut menus".
- Customization Menu:** A sub-menu is open within the dialog, listing "Ribbon", "Quick Access Toolbar", "Shortcut Menus", and "Keyboard Shortcuts". A green dot and line point to the "Ribbon" option.

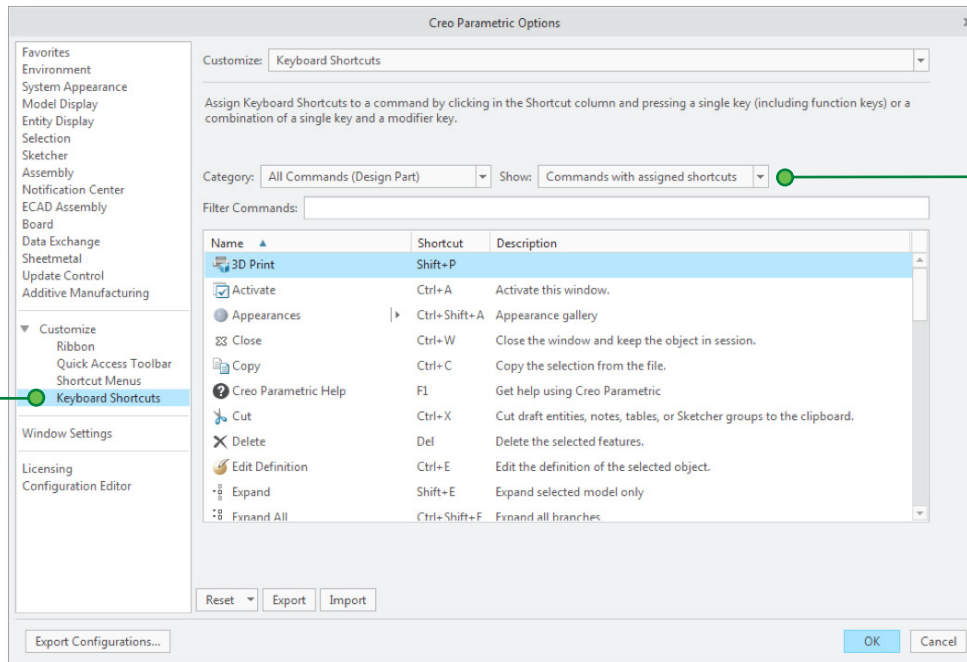
Keyboard shortcuts

Key tips

Press ALT key to activate key tips.



Keyboard shortcut customization



Filter options







Key shortcuts

You can use standard keyboard shortcuts in Creo Parametric. For example:

- Regenerate Ctrl G
- New file Ctrl N
- Open file Ctrl O
- Save file Ctrl S
- Find Ctrl F
- Delete Del
- Copy Ctrl C
- Paste Ctrl V
- Undo Ctrl Z
- Redo Ctrl Y
- Repaint Ctrl R
- Standard view Ctrl D

Copy/Paste shortcuts are also available in Assembly Mode

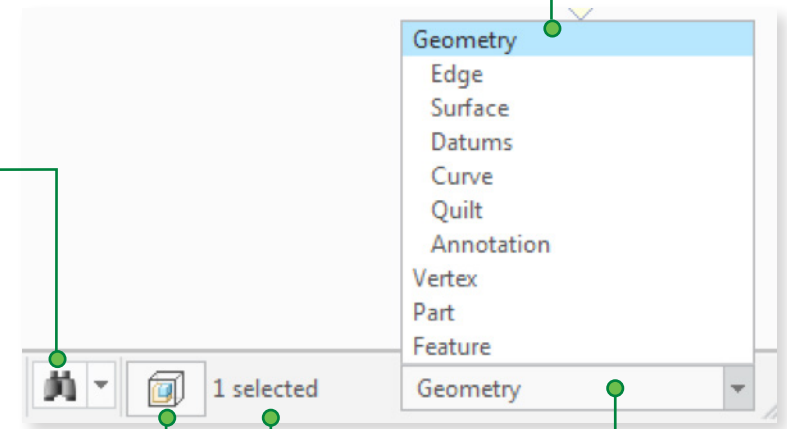
Mouse control

- Highlight geometry  Over geometry
- Query to next item  Until highlighted
- Select highlighted geometry 
- Add or remove items from selection  Ctrl
- Construct chains or surface sets  Shift
- Clear selection  On background

Filters limit the scope of selection

Default selection filter: Geometry
When selecting geometry, extended context (feature or part) operations are available. To select features or parts directly, use ALT+LMB or switch filter

Find tool
Geometry Search Tool
(available for Flexible Modeling and Datum Reference Features)



Select using 3D box

Tip: double-click to view items in selection window

Active filter

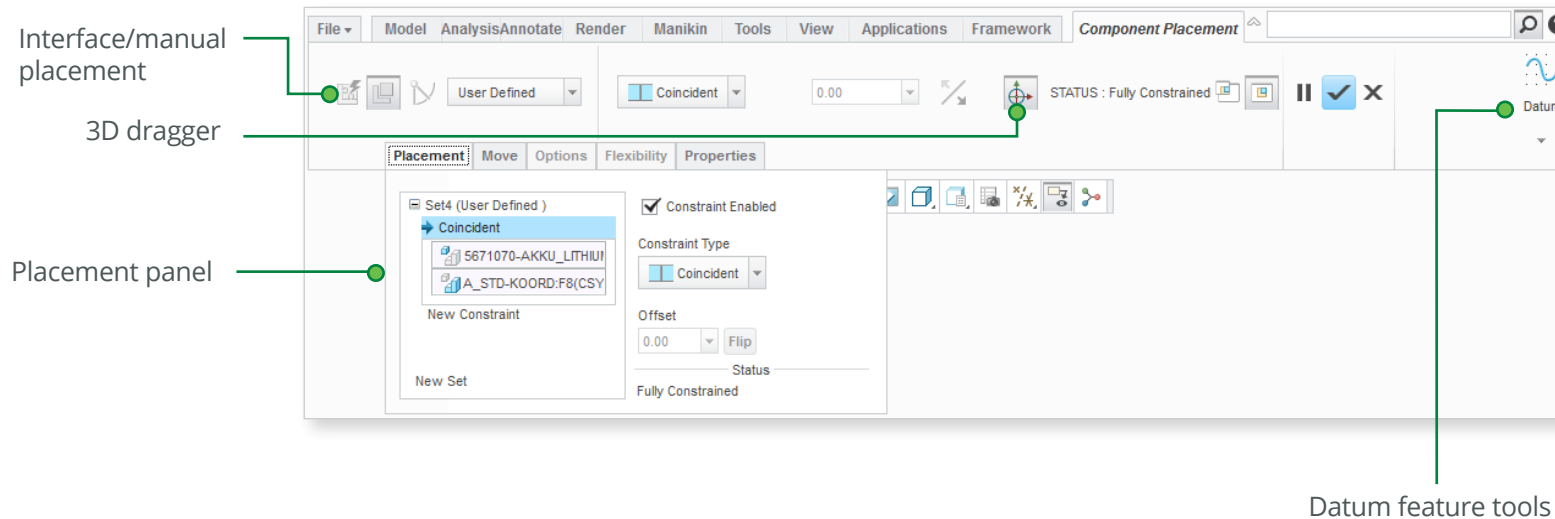
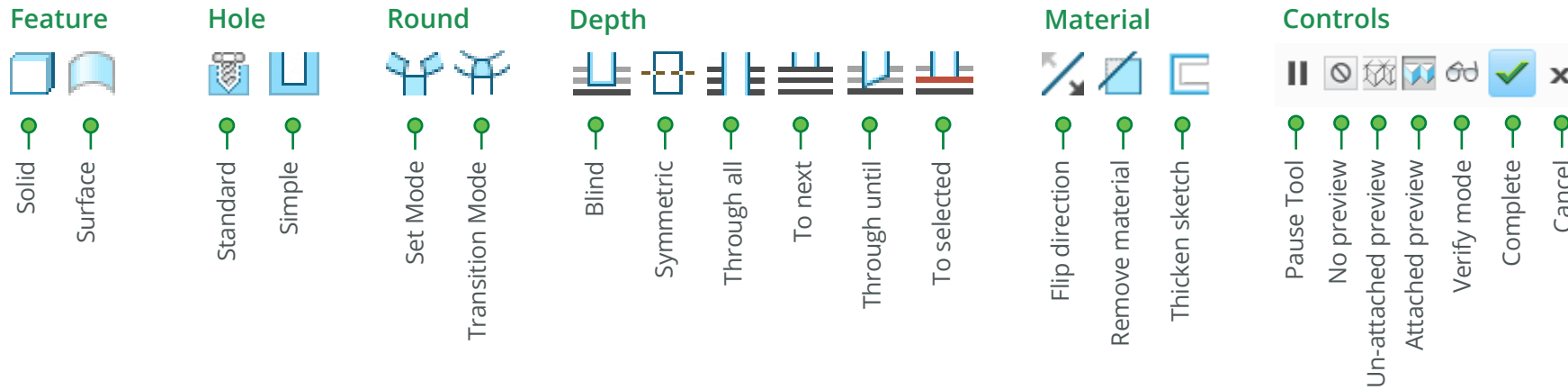
Main toolbar

The screenshot shows the main toolbar with tabs for Tools, View, Flexible Modeling, and Applications. The 'View' tab is active, and the 'Manage Views' dropdown menu is open, showing options like View Manager, Display Combined Views, Zone, and Representation. The Command Locator search bar is active with the text 'com' entered, displaying a list of matching commands. The 'Display Combined Views' command is highlighted, and a tooltip shows its location: Design Part > View > Model Display > Manage Views. The Command Search Settings dialog box is also open, showing search criteria and options.

Annotations and instructions:

- Type command name to search
- Activate command search
- Matching commands are listed here
- Hover cursor over a command to see the path
- Command may be selected from search results
- Command search settings





Common dashboard controls




Dynamic viewing

3D Mode

Hold down the key and button. Drag the mouse.




- Spin 
- Pan 
- Zoom 
- Turn 

2D Mode

- Pan 
- Zoom 

2D & 3D Mode

Hold down the key and roll the mouse wheel.

- Zoom 
- Fine Zoom 
- Coarse Zoom 

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 option
- 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
- Use the shortcut: CTRL+ALT+Left Mouse and drag

Component placement controls

Allows reorientation of components during placement

- Component Drag 
- Spin 
- Move 

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

Model appearance

Changing model appearance Assign appearance

Object-action


1. Select Surface/Quilt/Intent Surface/Part
2. Select Appearances button pull-down
3. Select/create desired appearance

Action-object

1. Select Appearance button pull-down
2. Select/create desired appearance
3. Select Surface/Quilt/Intent Surface/Part

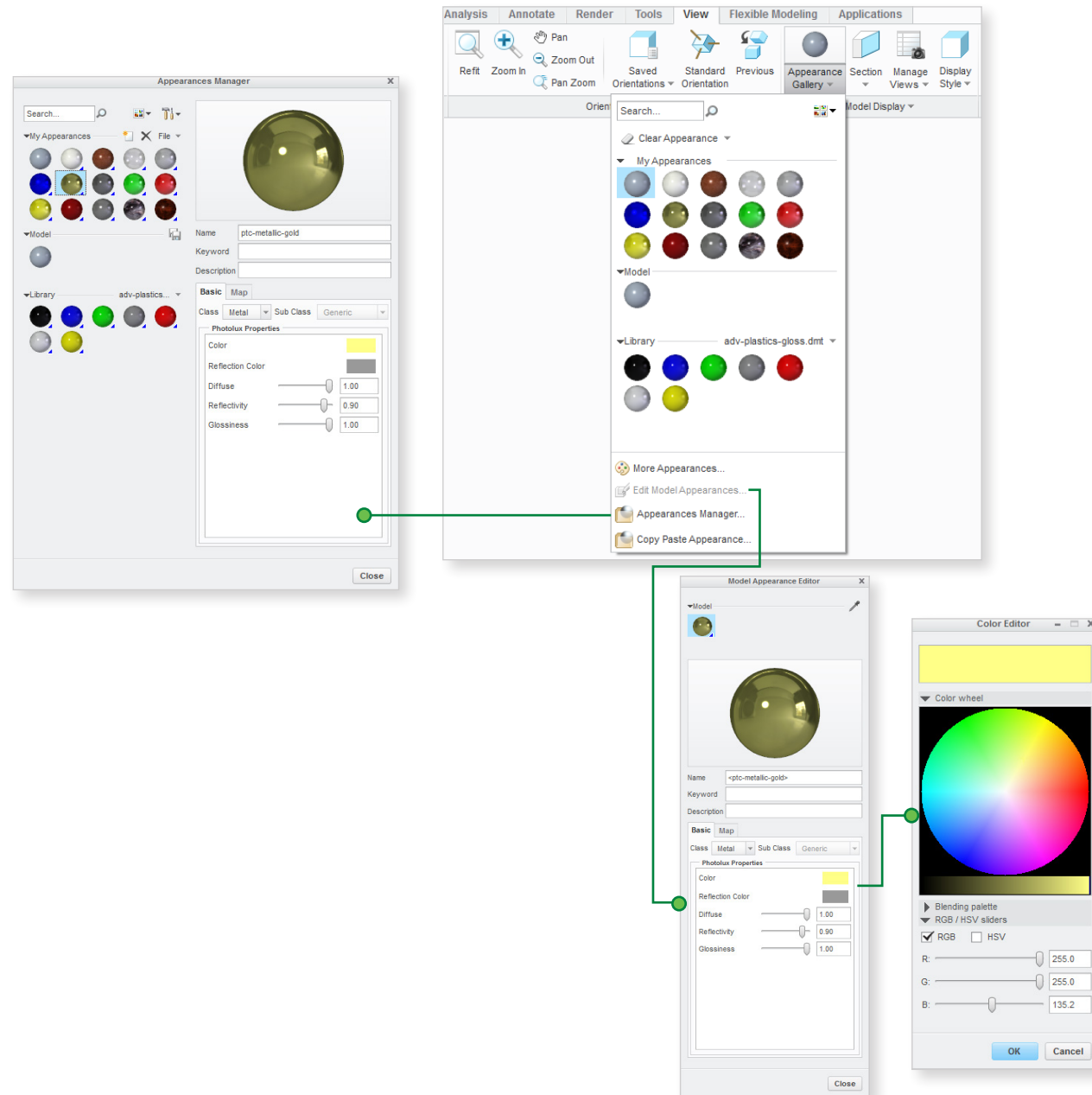
Edit Appearances in the current model

1. Select Edit Model Appearances from the Appearance pull-down menu
2. Adjust appearance attributes using draggers
3. Select Map tab to map images and textures.

 To edit texture placement, select surface using color-picker

Manage appearances

- Build a custom library of appearances
- Include pre-defined plastics or metals library appearances
- Edit/create/delete appearances in the custom library palette
- Define/save/retrieve custom appearance (*.dmt) files



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

Multiple chains

1. Construct initial chain
2. Hold CTRL
3. Select an edge for new chain
4. Release CTRL down
5. Hold down SHIFT
6. Complete new chain from selected edge

Individual chains

One-by-One

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

1. Select an edge
2. Hold down SHIFT
3. Select adjacent edges
4. Release SHIFT

Rule-based chains

Tangent

To select all the edges that are tangent to an anchor edge:

1. Select an edge
2. Hold down SHIFT
3. Highlight Tangent chain (Query may be required)
4. Select Tangent chain
5. Release SHIFT

Boundary

To select the outer-most boundary edges of a quilt:

1. Select a one-sided edge of a quilt
2. Hold down SHIFT
3. Highlight Boundary chain (Query may be required)
4. Select Boundary chain
5. Release SHIFT

Surface loop

To select a loop of edges on a surface path:

1. Select an edge
2. Hold down SHIFT
3. Highlight Surface chain (Query may be required)
4. Select Surface loop
5. Release SHIFT

From-To

To select a range of edges from a surface patch or a quilt:

1. Select the From edge
2. Hold down SHIFT
3. Query to highlight the desired From-To chain
4. Select From-To chain
5. Release SHIFT

[Continued]

CONSTRUCTING SURFACE SETS

Individual surface sets

Single surfaces

To select multiple surface patches from solids or quilts one at a time:

1. Select a surface patch
2. Hold down CTRL
3. Select additional patches (Query may be required)
4. Release CTRL

Rule-based surface sets

Solid surfaces

To select all the surface patches of solid geometry in a model:

1. Select a surface patch on solid geometry
2. Right-click and select Solid Surfaces

Quilt surfaces

To select all the surface patches of a quilt:

1. Select a surface feature
2. Select the corresponding quilt

Loop surfaces

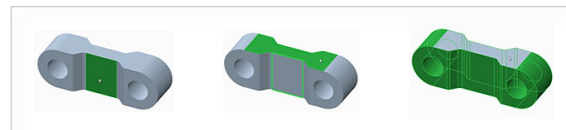
To select all the surface patches that are adjacent to the edges of a surface patch:

1. Select a surface patch
2. Hold down SHIFT
3. Place the pointer over an edge of the patch to highlight the Loop Surfaces
4. Select Loop Surfaces (the initial surface patch is de-selected)
5. Release SHIFT

Seed and boundary surfaces

To select all surface patches, from a Seed surface patch up to a set of Boundary surface patches:

1. Select the Seed surface patch
2. Hold down SHIFT
3. Select one or more surface patches to be used as boundaries
4. Release SHIFT (all surfaces from the Seed up to the Boundaries are selected)



Excluding surface patches from surface sets

To exclude surface patches during or after construction of a surface set:

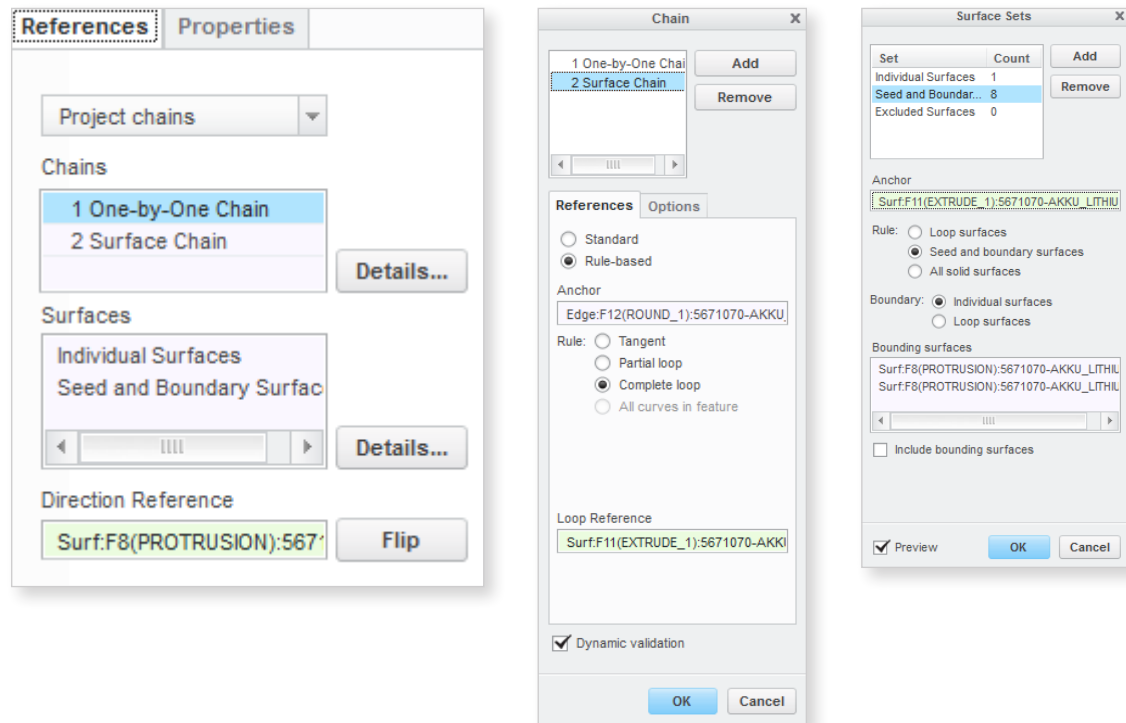
1. Construct a surface set
2. Hold down CTRL
3. Highlight a patch from the surface set
4. Select the patch to de-select it
5. Release CTRL

Advanced selection: chain & surface set construction

[Continued]

Constructing chains & surface sets using dialog boxes

To explicitly construct and edit chains & surface sets, click Details next to a collector:



Advanced selection: geometry search tool

Geometry Search
Search and select geometry items in the model by rules.

Regions and Surfaces

Invoke geometry search

Shift F

Geometry Search Tool

Search Criteria

Looking for: Shape surface

Click to add search criteria

Geometry: 1 surfaces

References

Shape Surfaces

Details

Found Geometry:

- Surf Region:F21(Member)
- Surf Region:F21(Member)
- Surf Region:F22(Member)
- Surf Region:F22(Member)

Query options Search Select

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