

Agenda

PTC^{*} Live Global

- Sketcher
- Part
- Assembly
- Drawing
- PTC Windchill



Sketcher

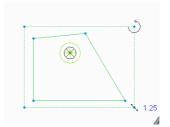
Alter Pasted Center

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Sketcher

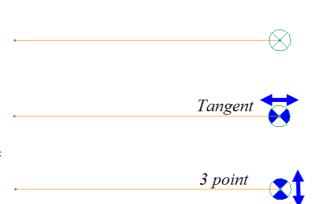
- Hold Alt and click the entity where you want the snap origin
- Snapping doesn't always create constraints





Sketcher

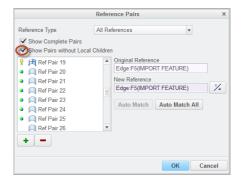
- The circle is divided into quadrants
- Quadrant represents tangent or 3 point arc creation
- Exiting tangent the entity will create a tangent arc
- Exiting non-tangent will create a 3 point arc
- Returning the cursor to the circle resets the arc type



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Part

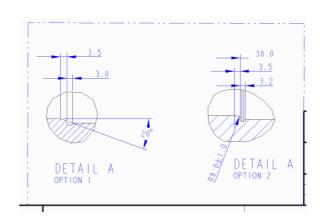
- · Imports can be replaced
- · Imports have a reference pairing option
 - Old Reference/New Reference
- · Replaced references work downstream
- · Use Reference pairing to prevent failures
 - Show Pairs without Local Children for all missing references
 - ! Is not matched
 - Is Automatched
 - Is manually matched



Use a Representation to Show Alternate Options

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- Use a simplified representations when another option is possible for the same part number
- First exclude features (suppress)
- · Then create cuts
- Creating cuts first can result in failure if references are suppressed



Wrap a solid PTC Live Global

Part

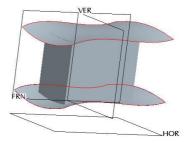
- Merge "flat" decal into new model
- Wrap using "Toroidal Bend"
- Sketch is the "revolved" profile
- Geometry coordinate system is where the radius value is measured from
- · Radius is distance from "X" axis



Extrude Between Two Surfaces

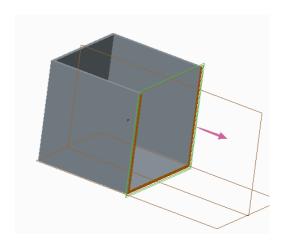
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- · Sketch plane can be anywhere
- Set depth reference for both sides



Part

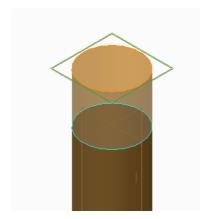
Solidify will accept a plane as a cutting reference



Offset Solid Surface

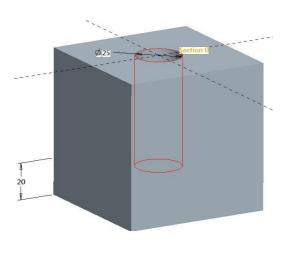
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- Offset by dimension
- or
- Offset to datum plane



Part

- Create datum plane in the feature
- Set depth "To Selected"



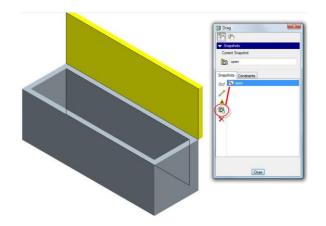
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Assembly

Multiple Positions w/o a Family Table

Assembly

- Family tables are for different components
 Not for different positions
- Assemble using appropriate mechanism constraints
- · Create a snapshot
- Make it available in Drawing Mode if necessary (Creates an exploded view for drawing mode)

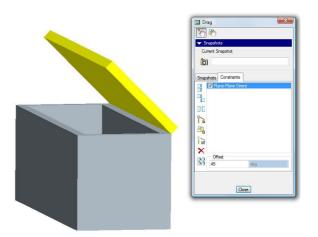


Temporary Constraints

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Assembly

- · Add constraints
- · Take snapshot

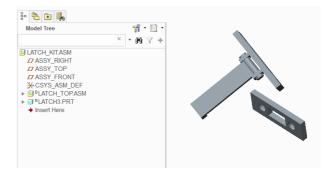


Creating Kits PTC Live Global

Assembly

• All components get 6 DOF constraints

1st component could be default



Using Kits PTC Live Global

Assembly

· Must assemble kit twice

Assemble by simply clicking "ok" to leave the kits packaged

· Click the drag components button

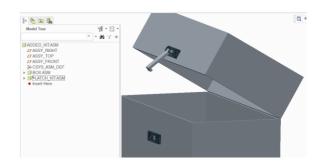
 Internally clicking the drag components instantiates the kits because there are 2+

· Delete the second kit

Instantiated kit remains instantiated

· Edit definition of the kit

Each component is its own "General" set (or Rigid?)



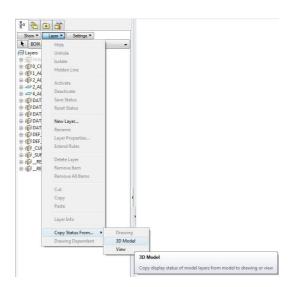
Drawing

Match Drawing Layers to Current Model Layers

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Drawing

- When drawing layers are independent of model
- Will copy the same status used in the model



Override Drawing "Auto Filter"

Drawing

- · Used to set what YOU want filtered
- · No need to hold the "Alt" override key
- · Can be set as your default



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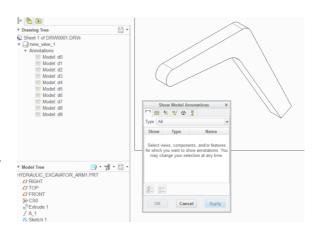
Reset Erased Dimensions

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Drawing

- · Deletes erased dimensions on retrieve
- Dimensions will appear when annotations are shown

Config.sup only
enable_auto_drawing_update yes
enable_auto_drawing_update_command delete_erased_dimensions
auto_drawing_update_command delete_erased_dimensions



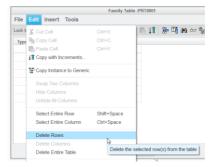
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Separate a family table

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PTC Windchill

- · Open the instance
- · Open the generic
- · Remove the instance from the family table
- · Save the generic
- All assemblies update unless the component was replaced through a family table



PTC Windchill

- "Remember These Components" will create a dummy reference
- This can be prevented by either unchecking the option or defaulting the setting off



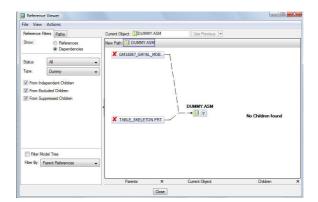
remember_replaced_components no

Remove the Ghosts From Model

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- · All "Dummy" references can be removed
- An "Independent" reference will be restored upon editing definition



Cleanup Drawing Ghosts

PTC Windchill

- · Add the config options
- · Save the drawing locally
 - Make sure only .drw resides in folder
- · Erase memory
- · Open the drawing from the local drive
- Click Remove
- Save drawing overwriting the PTC Windchill copy
- cleanup_drawing_dependencies=yes_cs_not_required · Remove the config options or reset them

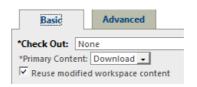
cleanup_layout_dependencies=yes_cs_not_required

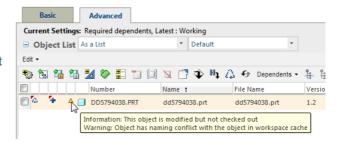


Overwrite existing file

PTC Windchill

- · Make change and save
- · Search PTC Windchill for that file name
- Check out
 - Make sure "Reuse" is selected
- · Revising to an "editable" state is also possible
 - Make sure "Reuse" is selected
- · Use Advanced tab for a visual indicator of what is happening





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- Don't miss out on the chance to provide your feedback
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- · Complete your session evaluation now

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