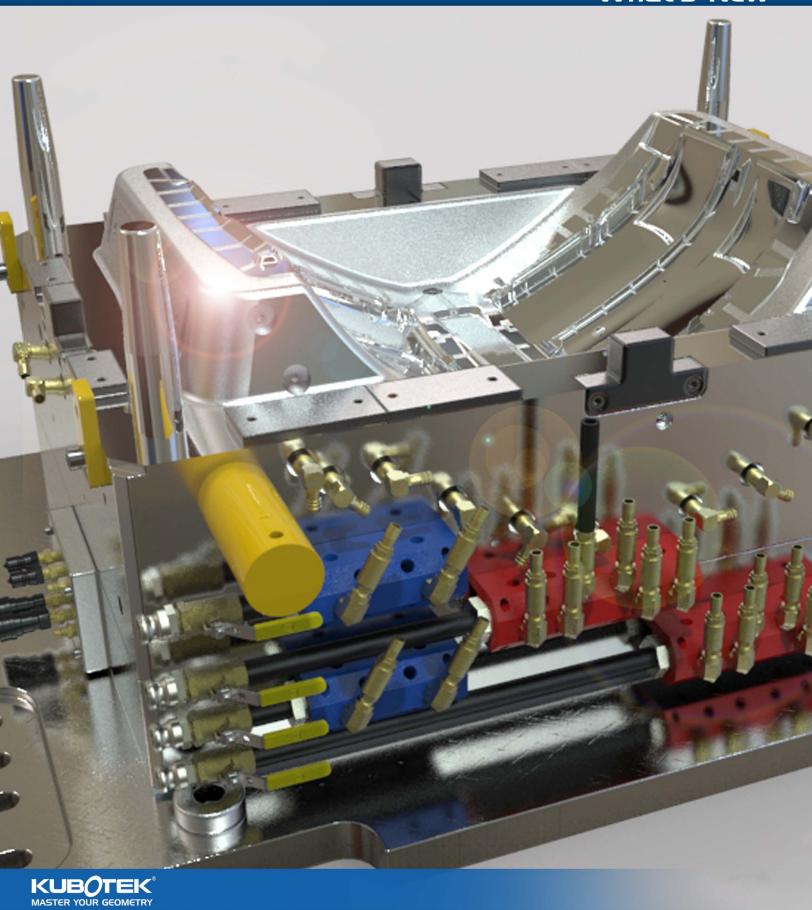
# KEYCREATOR® 2014

What's New

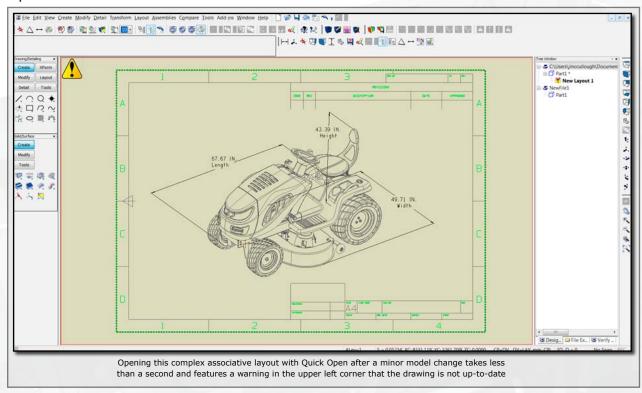


# **Major Enhancements**

KeyCreator 2014 provides three significant new capabilities driven by user requests which will save typical users considerable time and likely become indispensible tools.

## **Quick Open Layout**

- To save time when opening complex layouts, the Quick Open option skips reprocessing precise hidden line views. This special layout mode is useful on occasions when updated views are not important but time is.



### **Drawing Revision**

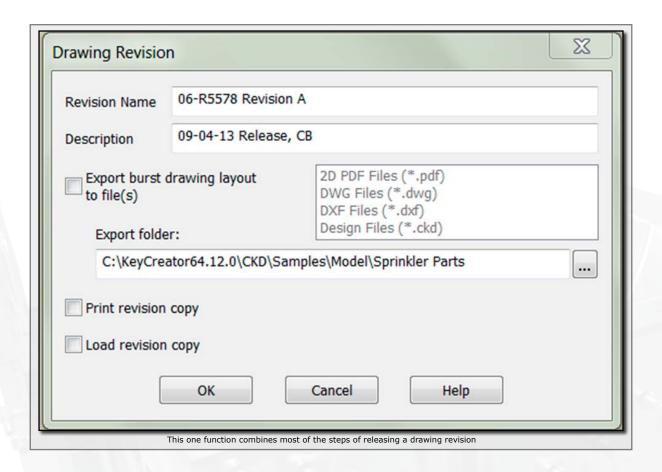
- The new Drawing Revision function streamlines the process of creating a permanent "snapshot" drawing layout from an associative "working" layout drawing - saving time and reducing errors.

Drawing Revision capabilities:

- Copy the selected layout
- Append incremented revision letter onto new layout name
- Burst all instances to prevent updating
- Disable field codes in text to prevent updating
- Optionally export to PDF, DXF, DWG, and CKD
- Optionally print
- Optionally load the revision layout

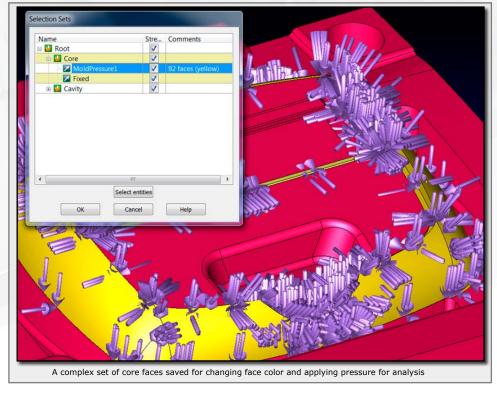






## Save Selection Sets

- Complex selections of entities and/or faces can be saved for quick re-selection in later functions. The Selection Sets dialog supports managing selections with names, comments, and folders.





## Interoperability

The 2014 release of KeyCreator improves the extensive import capabilities with several significant interoperability updates.

### ACIS SAT/SAB R24

- Dassault Systemes Spatial ACIS SAT/SAB support has been extended to R24 files.

#### **AutoCAD DWG/DXF 2013**

- Autodesk AutoCAD DWG/DXF support has been extended to version 2013 files.

#### **Inventor Version 2013**

- Autodesk Inventor Import has been enhanced to support version 2013 files.

## NX (UG) Import Version 8.5

- Siemens PLM NX Import has been enhanced to support version 8.5 files.

#### CATIA V5 R23

- Dassault Systemes CATIA V5 Import has been enhanced to support R23 version files.

## STEP Reads Volume, Area, and Centroid

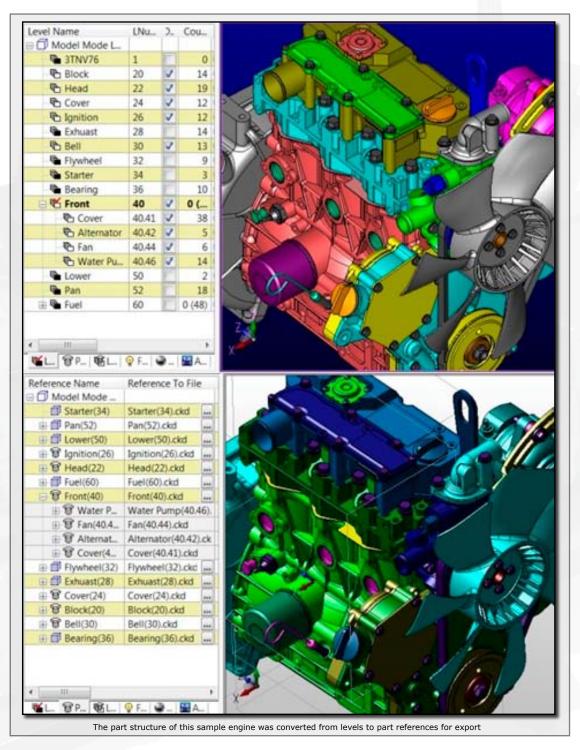
- STEP Import will read Volume, Area, and Centroid values, if included by the program that wrote the STEP file. This information is especially useful for non-solid models which would require extra modeling to support calculation of this information.





#### Level to References

 The new Level to References function automates conversion of a level managed assembly into an equivalent referenced assembly for clean export of part structure to CAD software which supports only references.

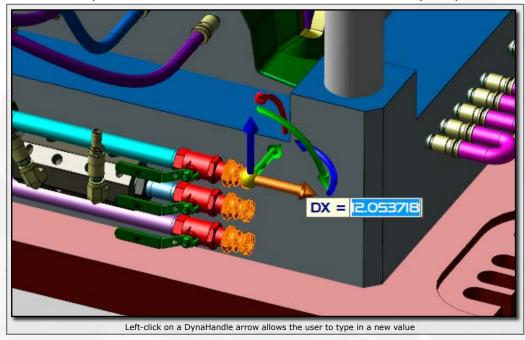


# **Dynamic Creation and Editing**

Like the last several releases, KeyCreator 2014 continues to provide more and more powerful, simple, dynamic options by improving and expanding use of DynaHandles throughout the program.

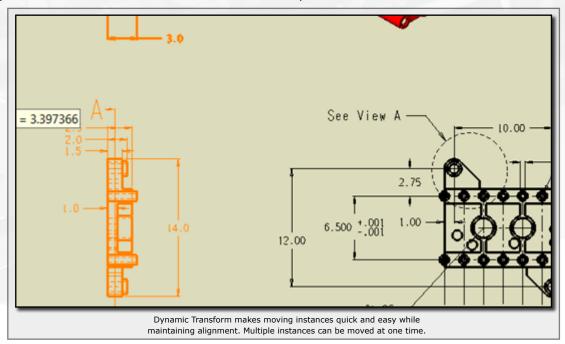
## Editable DynaHandle ToolTips

- DynaHandle ToolTip values are now available as editable fields for quick precise moves



# **Dynamic Transform Multiple Instances**

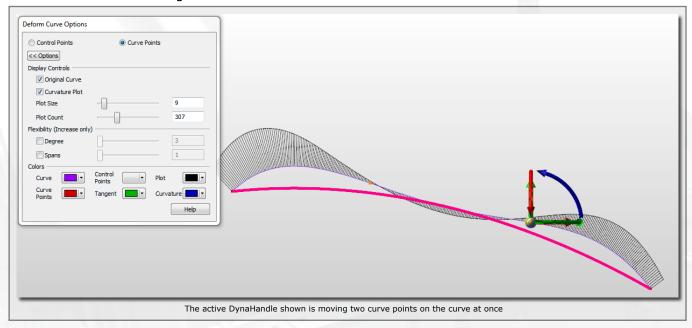
- Dynamic transform now moves or scales multiple instances at a time





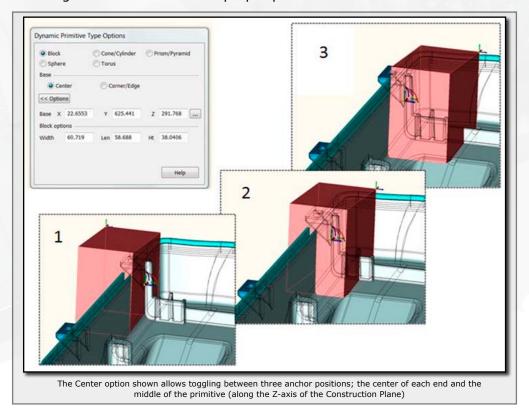
# **Deform Multiple Curve Points**

- Deform Curve function adds support for moving and aligning multiple curve points for improved control of curve editing



# **Dynamic Primitive Anchor Toggling**

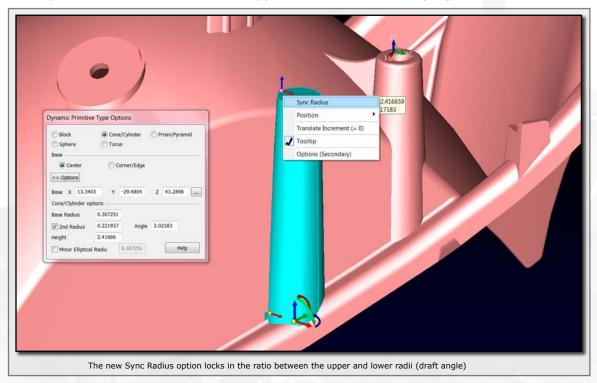
- Dynamic Primitive function supports quick toggling of the anchor position of the base DynaHandle to allow inserting of the new solid in its proper position relative to other solids.





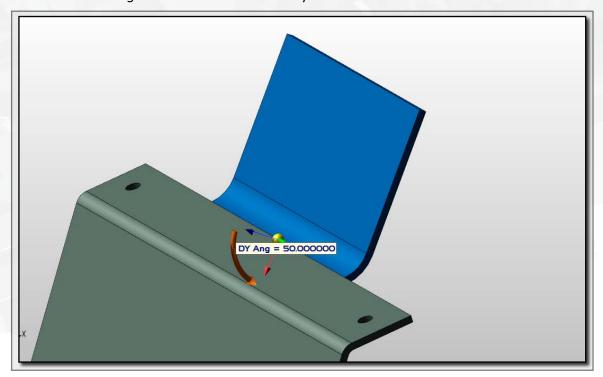
# Synchronize Primitive Radius

- The Cone/Cylinder and Prism/Pyramid options of the Dynamic Primitive function feature a Sync Radius option to link the Y axis of the upper and lower secondary DynaHandles.



# **DynaHandle for Flange**

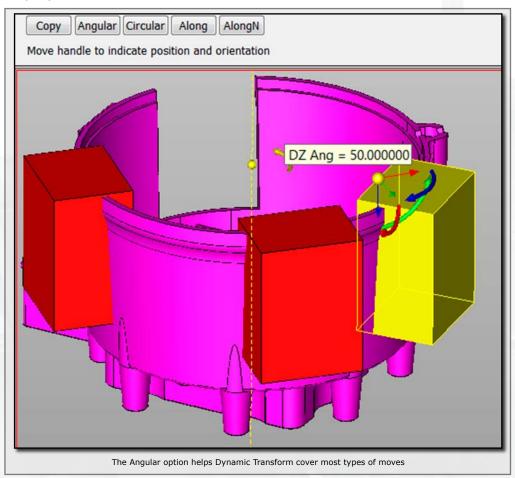
- Create Feature Flange now uses a standard DynaHandle interface.





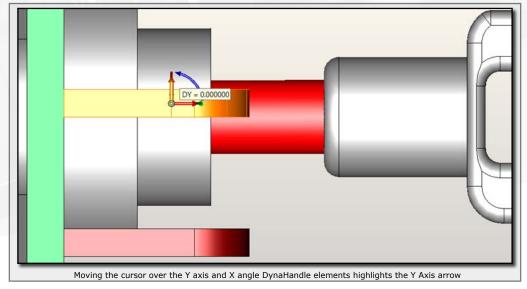
# Angular and Circular Dynamic Transform

- Dynamic Transform function provides new Angular and Circular options for dynamic moves around a secondary DynaHandle axis.



# **DynaHandle Arrow Selection Priority**

- DynaHandle arrow selection prioritizes the more commonly used straight arrows over circular arrows in overlapping orientations to save the user the need to toggle the selection.



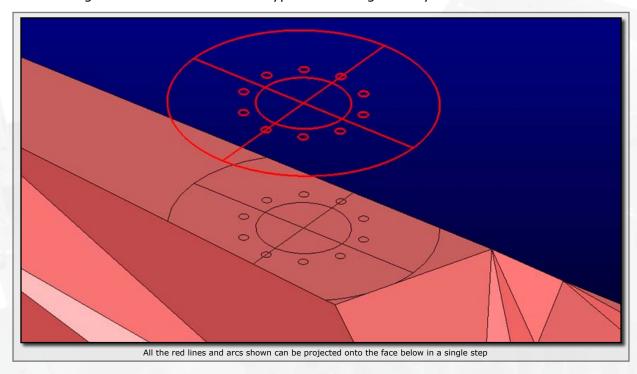


# Modeling

Several minor improvements in modeling capabilities aid users in getting special tasks done more efficiently.

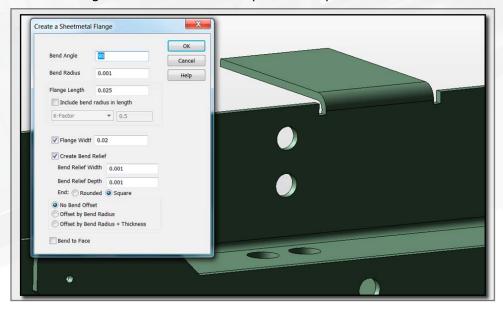
# **Imprint Multiple Curves**

- The Modify>Topology>Imprint function supports multiple sets of connected curves for significant time savings with text and bolt circle types of curve geometry.



# **Square Notches**

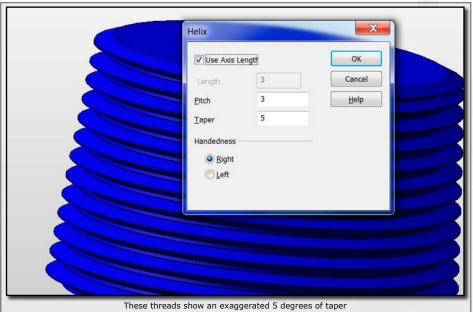
- The Sheetmetal Flange function has a new option for square end notches on bend reliefs.





# Helical Sweep with Taper Angle

- Helical Sweep adds taper angle support for forming pipe threads and also adds an option for entering a length value.

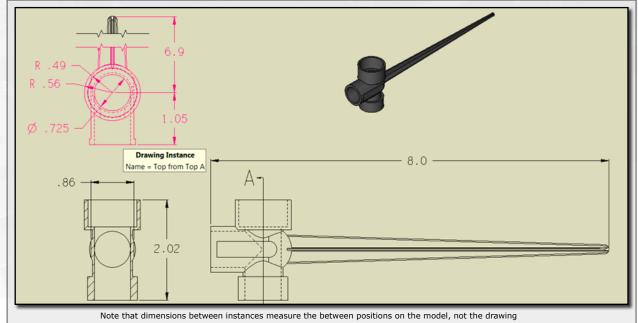


# Detailing

Besides the major enhancements targeted at drawing productivity covered previously, KeyCreator 2014 provides several other meaningful detailing improvements.

#### **Automated Broken Views**

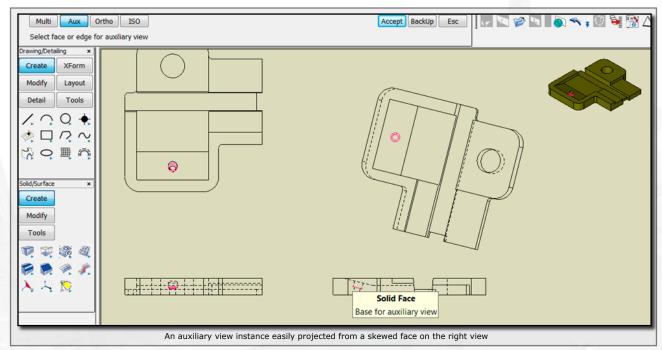
- A new function breaks long view instances into two trimmed instances with break symbols in just 4 clicks. This saves significant time over the manual process.





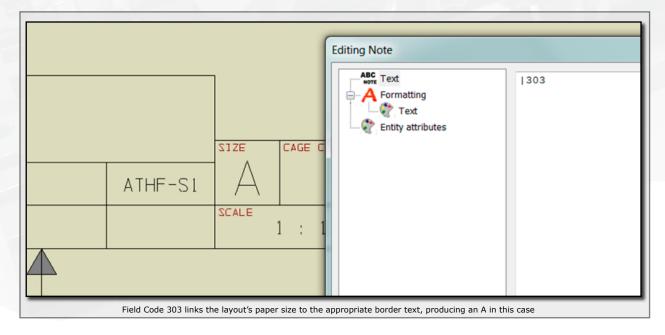
# Simplified Projected Views

- The interface of the Projected Instance function has been simplified with new menu options for auxiliary, orthographic, and isometric only modes.



### **New Field Codes**

- Note entities include new field codes to support associative updating to match the name of a specified entity and the layout paper size.



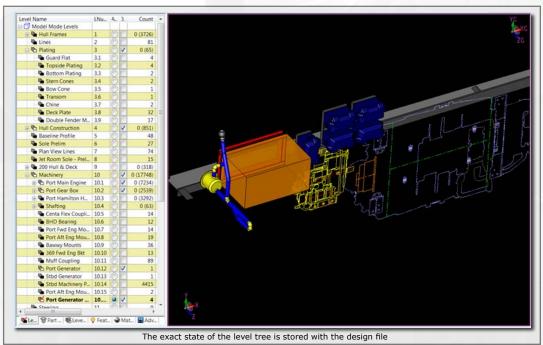


#### Visualization

Being able to immediately and clearly see details in graphical design information from various views and configurations is one of the major overall benefits of CAD and 3D modeling. Kubotek continues to strengthen KeyCreator in this important area by handing the minutiae, which add up to serious productivity advantages.

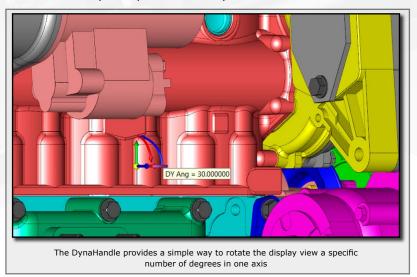
#### 'Level List' State Remembered

- Levels expand/collapse status and column layout is now saved in the design file. This is a big help for users with complex sub-level trees to be able to view the child levels expanded in the previous session.



# View by DynaHandle

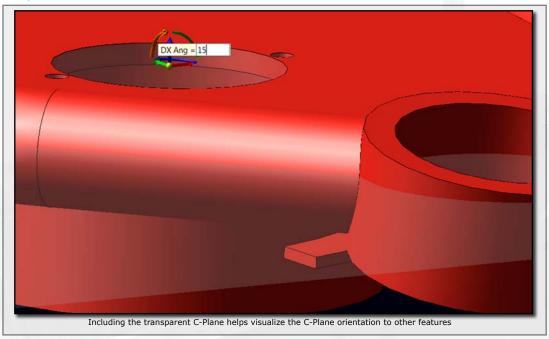
- A new Display View function option provides a DynaHandle to define the new view orientation.





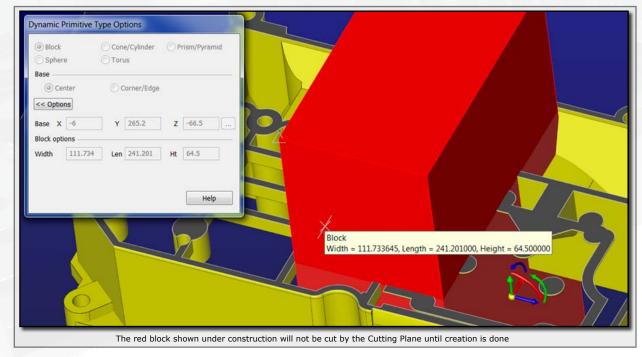
# **Dynamic C-Plane Shown Transparently**

- DynaCP menu option in the Set C-Plane function now always displays the transparent C-Plane for visual clarity.



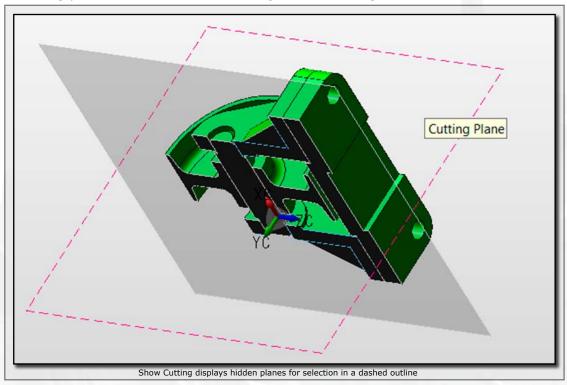
# **Animation Ignores Cutting Plane**

- Cutting Planes no longer act on animation of entity creation so that users can fully visualize the location and construction.



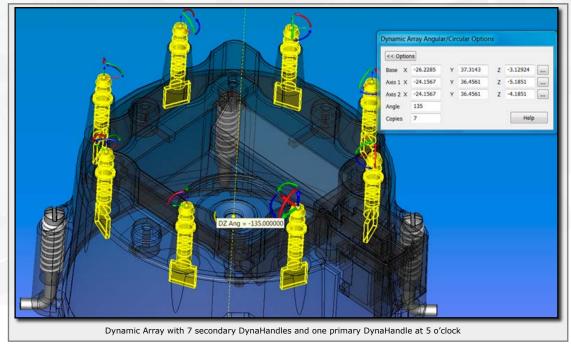
# **Hide Cutting Planes**

- Cutting Planes can now be disabled one-by-one as an alternative to deletion. Hiding a carefully placed cutting plane saves time over deleting and recreating later.



# Secondary DynaHandles

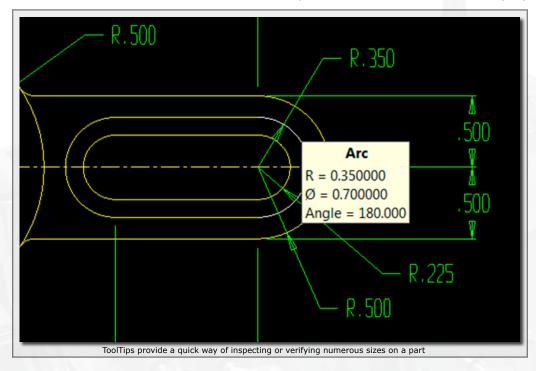
- Secondary DynaHandles are displayed at a smaller scale than the primary DynaHandle to help distinguish them from each other.





## **ToolTip Improvement**

- ToolTips on arcs of less than 360 degrees now include diameter which is helpful information when the arc represents part of a machined feature. The ToolTip also now abbreviates the words diameter and radius to reduce the size of the ToolTip so it obscures less of the display.

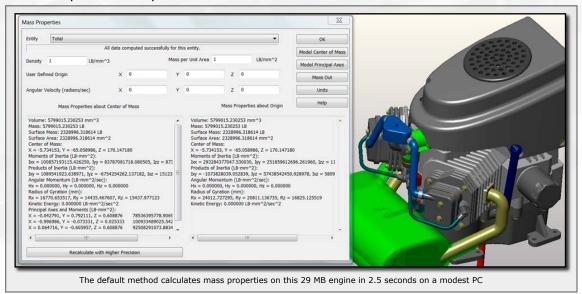


## **Mass Properties**

Kubotek continues to measure and drive improvements to the execution speed of calculation and memory intense functions to reduce user time spent waiting for results.

#### Performance Mode

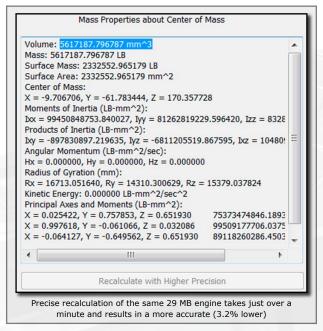
- The Mass Properties verify function now defaults to use of fast facet-based calculation method.





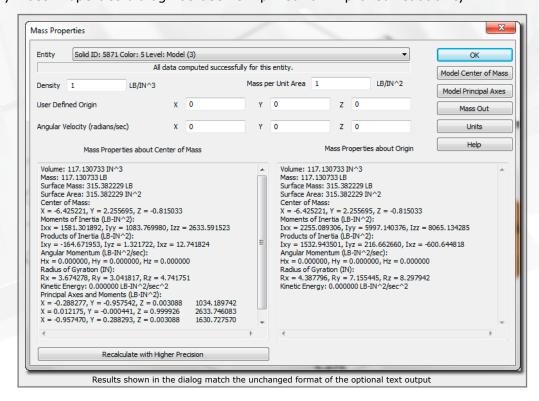
## **Optional High Precision**

- Mass Properties supports recalculation using more precise solids-based method at the highest possible precision. The optional precise solids-based mass properties results are saved with the solids and do not require recalculation again unless the solids have been edited.



# **Dialog Simplified**

- The Verify Mass Properties dialog has been simplified for improved readability.





#### Setup

Added settings options allow users to configure function output to match their styles and preferences.

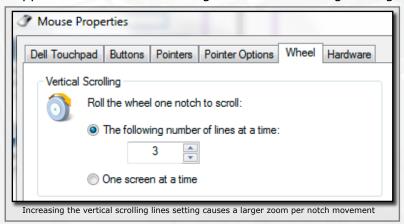
#### Mouse Wheel Zoom

#### Reverse

- New option to reverse the mouse wheel zoom direction (wheel forward zooms in) to match the camera movement logic used in 3D programs like MasterCAM and others. This setting makes zooming more comfortable for users who frequently switch between programs for different tasks.

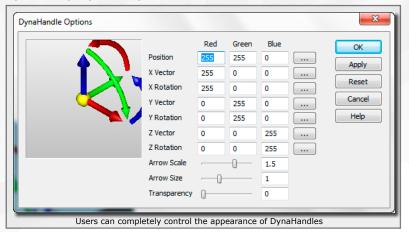
## Sensitivity

- Mouse wheel zoom sensitivity now respects the Windows mouse driver setting for vertical scrolling. This supports much faster zooming in and out to navigate large designs quickly.



## DynaHandle Appearance

New options to control appearance of DynaHandle are available from a single dialog box. This
change has helped simplify the DynaHandle context menus.





#### **Kubotek USA, Inc.**

2 Mount Royal Ave. Suite 500, Marlborough, MA 01752 Phone: 800-372-3872 www.kubotek3d.com sales@kubotekusa.com





