

Reference Tutorial: Creo Modify Dimension Properties

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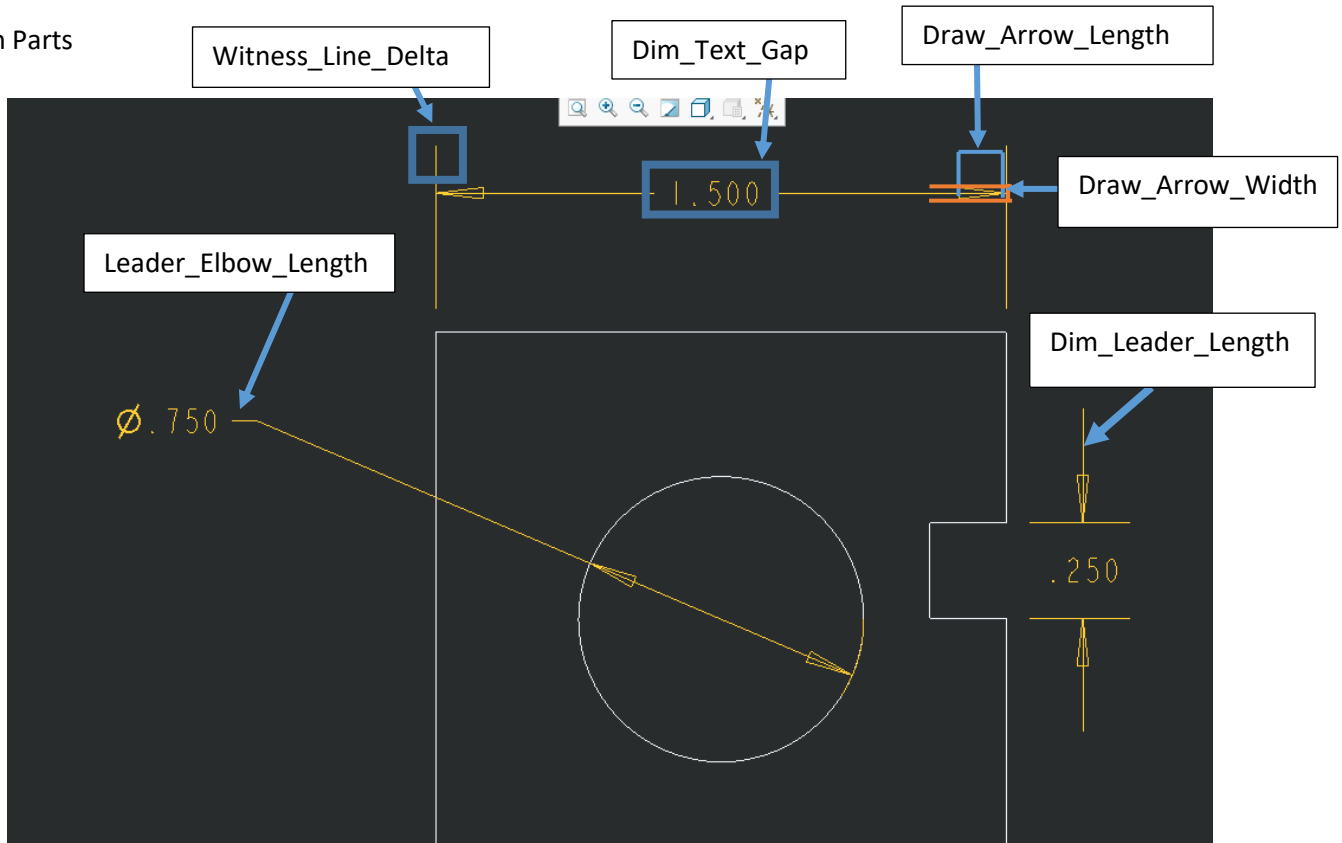
Brighton, MI

Dimensions properties sometimes need to be modified to fit in the space desired by the designer. Creo allows the user many options to modify these properties (i.e. arrow size, extension line size, text size, etc.) This tutorial looks at nine basic settings that will be used for most parts.

Main Dimension Properties

- Dim_Leader_Length: Controls the length of the Dimension Line on an external arrow head dimension
- Witness_Line_Delta: Controls the length of the extension distance beyond the Dimension Line
- Draw_Arrow_Length: Controls the length of the arrowhead parallel to the Dimension Line (Should maintain 3:1 ratio; Length is 3x the Width)
- Draw_Arrow_Width: Controls the length of the arrowhead perpendicular to the Dimension Line (Should maintain 3:1 ratio; Length is 3x the Width)
- Crossec_Arrow_Length: Controls the length of the arrowhead parallel to the Cutting Plane Line
- Crossec_Arrow_Width: Controls the length of the arrowhead perpendicular to the Cutting Plane Line
- Dim_Text_Gap: Controls the space for the Dimension Value on the Dimension Line
- Leader_Elbow_Length: Controls the length of the Horizontal Member of the Leader Line

1. Dimension Parts



2. Properties Settings Menu: Enter the menu by click on File > Prepare > Drawing Properties > Detail Options > Change

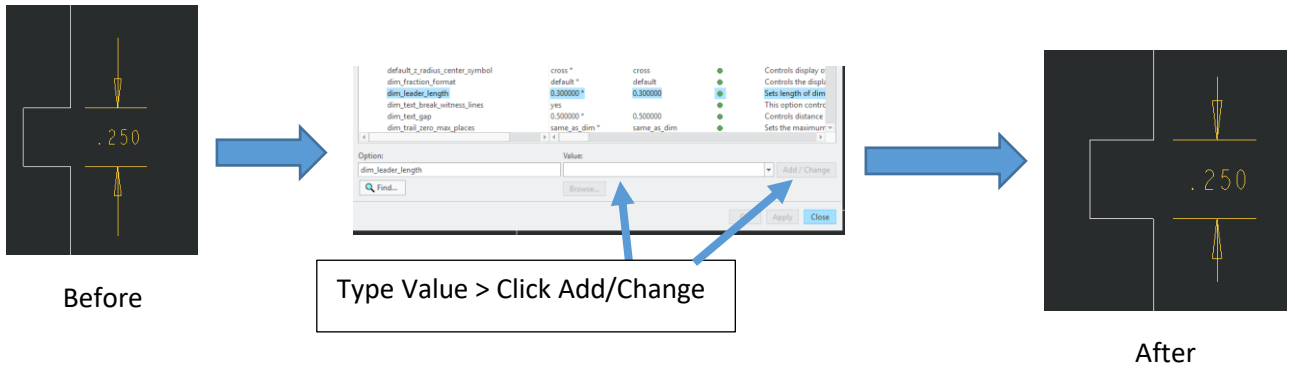
The process involves navigating through the software's menu system to reach the Drawing Properties dialog, then the Detail Options dialog, and finally the Properties Settings menu. The Properties Settings menu is a table where users can modify various drawing parameters. The table below represents the data shown in the Properties Settings menu.

Setting Name	Current Value	Default Setting Value	Status	Describes the Setting
Active Drawing				
▼ These options control text not subject to other options				
drawing_text_color	letter_color		●	Controls text color
text_height	0.062500 *	0.062500	●	Sets the default text height
text_thickness	0.000000 *	0.000000	●	Sets default text thickness
text_width_factor	0.800000 *	0.800000	●	Sets default ratio between text height and width
▼ These options control views and their annotations				
aux_view_note_format	VIEW %viewname-%vi... view %viewname-%vi...		●	Defines the default format for auxiliary view notes
broken_view_offset	1.000000 *	1.000000	●	Sets the offset distance between broken view and main view
create_area_unfold_segmented	yes *	yes	●	Makes the display of segmented areas
def_view_text_height	0.000000 *	0.000000	●	Sets the height of default view text
def_view_text_thickness	0.000000 *	0.000000	●	Sets default text thickness for views
def_view_text_height_scope	view_name_only		●	Sets the default view text height scope
def_view_text_thickness_scope	view_name_only		●	Sets the default view text thickness scope
default_detail_view_name_style	letter *	letter	●	Controls the main view name style
default_view_label_placement	bottom_left *	bottom_left	●	Sets the default placement of view labels
default_view_note_orientation	next_to_and_centered...	next_to_and_centered...	●	Controls the placement of view notes
detail_circle_line_style	solidfont *	solidfont	●	Sets line font for detail circles
detail_circle_note_text	DEFAULT *	default	●	Determines the text for detail circles
detail_view_boundary_type	circle *	circle	●	Determines the boundary type for detail views
detail_view_circle	on *	on	●	Sets display of a detail view circle
detail_view_scale_factor	2.000000 *	2.000000	●	Determines the scale factor for detail views
half_view_line	solid *	solid	●	Determines the line style for half view lines
model_display_for_new_views	follow_environment *	follow_environment	●	Determines line display for new views
projection_type	third_angle *	third_angle	●	Determines method of projection

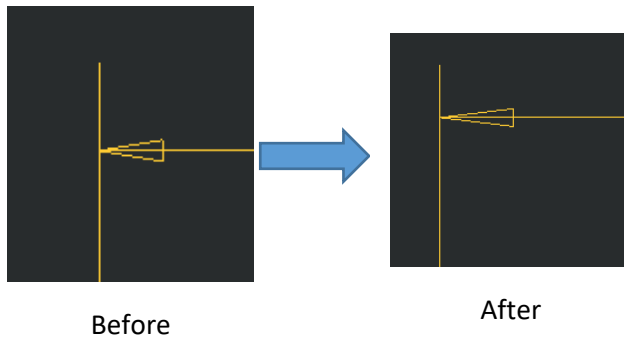
Instructions for using the Properties Settings menu:

- Setting Name:** Select the option to be modified from the list.
- Current Value:** The value currently set for the option.
- Default Setting Value:** The default value for the option.
- Describes the Setting:** A brief description of what the option controls.
- Type in the Option to change. Type in the desired property of the dimension to change > Hit the Enter Key > Change Value > Select Add/Change Key:** Enter the new value in the 'Value' field and click the 'Add / Change' button.
- Type in New Value:** The new value entered in the 'Value' field.
- Add/Change applies new value:** The 'Add / Change' button that applies the new value.

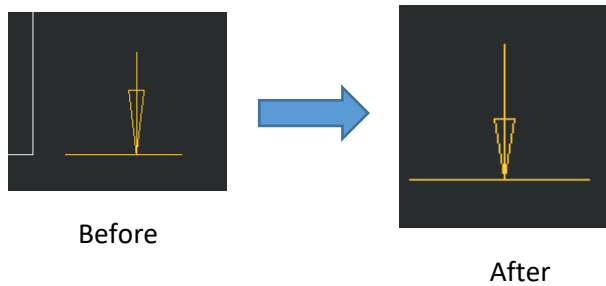
3. Dim_Leader_Length: File Tab > Prepare > Detail Options > Change > Option Text Box (Lower Left of the Menu Screen > Type in the desired property of the dimension to change > Hit the Enter Key > Change Value > Select Add/Change Key > Close Windows > Refresh Screen (Hotkey Regenerate Ctrl+G or Zoom In/Out using mouse)



4. Witness_Line_Delta



5. Draw_Arrow_Length and Draw_Arrow_Width (Maintain 3:1 Ratio (Length 3x that of the Width)
Modified: Draw_Arrow Length = .09
Default : Draw_Arrow_wirdth = .03



6. Dim_Text_Gap

