DimStyle

Creates and modifies dimension styles, through the Drawing Explorer.

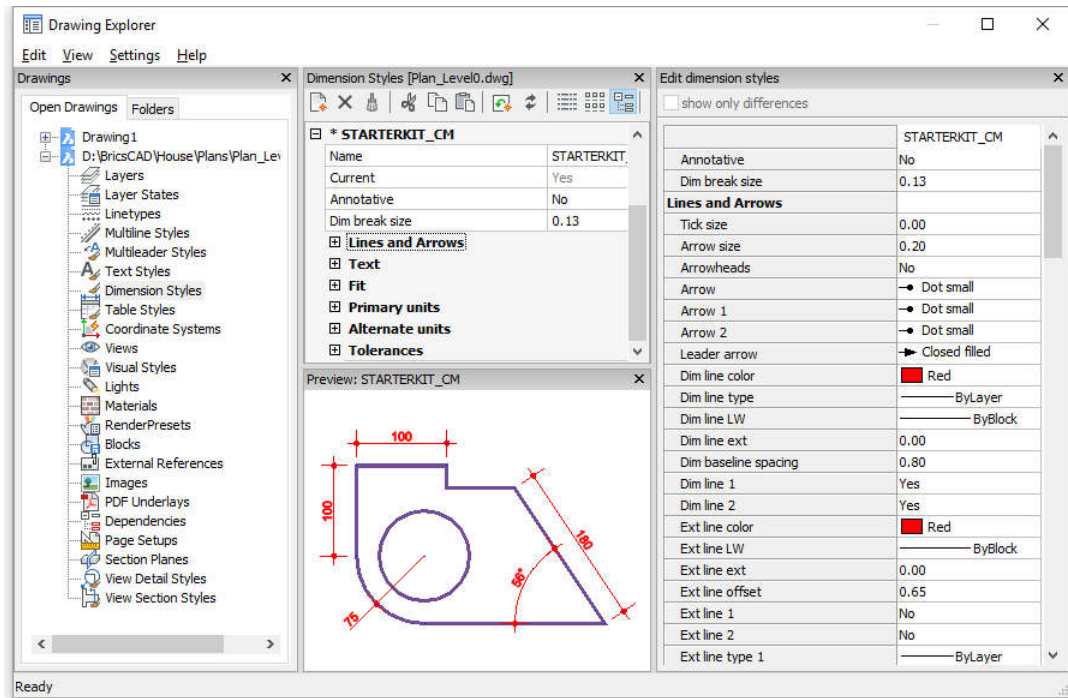### Accessing the Command

command bar: *DimStyle*
aliases: *d, ddim, dimsty, ds, dst, expdimstyles, setdim*
menu bar: *Tools | Drawing Explorer | Dimension Styles...*
status bar: *Standard (or name of other current dimension style)*

: **dimstyle**
Displays the Drawing Explorer at the Dimension Styles section:

*Create or edit dimension styles, and then click **X**.*
*Press **F1** to access help.*

<Overrides> - *allows dimension settings to be overriden, without creating a new style.*
*Standard - *lists the dimension settings for the dimension style named "Standard"; the * asterisk indicates that this is the current style.*
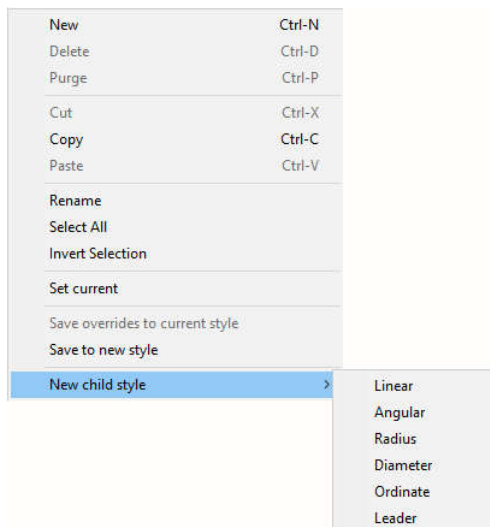
Command Options

Option	Description
Name	Names of the dimension style; all styles can be renamed and deleted, except for the Standard style.
Current	Indicates whether the style is current or not.
Annotative	Sets the annotative property of the dimension style.
Dim break size	Sets the value the gap created by the DimBreak command.
Show only differences	If multiple styles are selected, compares the selected styles and shows the differences only.

Dimension Child Styles

A dimension style can have up to 6 child styles: *Linear*, *Angular*, *Radius*, *Diameter*, *Ordinate* and *Leader*. If defined the child style will be used for the corresponding dimension types.
Right click the dimension style name, then choose New child style in the context menu and select a child style type.
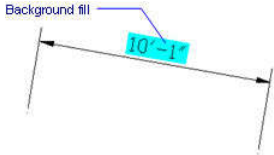
New	Ctrl-N
Delete	Ctrl-D
Purge	Ctrl-P
Cut	Ctrl-X
Copy	Ctrl-C
Paste	Ctrl-V
Rename	
Select All	
Invert Selection	
Set current	
Save overrides to current style	
Save to new style	
New child style	>

| Linear |
| Angular |
| Radius |
| Diameter |
| Ordinate |
| Leader |

Dimension child styles share all settings with the parent style, except for the properties that are defined explicitly differently.

	Description

Lines and Arrows	
Tick size	0 mm
Arrow size	180 mm
Arrowheads	Yes
Arrow	➤ Closed filled
Arrow 1	➤ Closed filled
Arrow 2	➤ Closed filled
Leader arrow	➤ Closed filled
Dim line color	■ ByBlock
Dim line type	——ByLayer
Dim line LW	—— ByBlock
Dim line ext	100 mm
Dim baseline spacing	380 mm
Dim line 1	Yes
Dim line 2	Yes
Ext line color	■ ByBlock
Ext line LW	—— ByBlock
Ext line ext	180 mm
Ext line offset	180 mm
Ext line 1	Yes
Ext line 2	Yes
Ext line type 1	——ByLayer
Ext line type 2	——ByLayer
Ext line fixed	No
Ext line fixed length	1 mm
Center mark	Mark
Center mark size	90
Arc length symbol	Preceding dimension tex
Jog angle	45

Arrow 1	Specifies the style of arrowhead for the starting end of the dimension line; choose from one of the following types:

	▸ Closed filled ▹ Closed blank ▸ Closed ● Dot ⟋ Architectural tick ⟋ Oblique ⟶ Open ⊖ Origin indicator ⊗ Origin indicator → Right angle ⟶ Open 30 ● Dot small ○ Dot blank ○ Dot small blank □ Box ■ Box filled ◁ Datum triangle ◀ Datum triangle f ∫ Integral None Select arrow...
Arrow 2	Specifies the style of arrowhead for the other end of the dimension line.
Arrow Size	Specifies the length of the arrowhead; the width is scaled proportionately.
Leader Arrow	Specifies the style of arrowhead for the starting end of the leader line.
Dim Line Color	Specifies the color of the dimension line; choose from: • Any Index Color. • Any True Color. • ByBlock. • ByLayer.
Dim Line type	Specifies the line type of the dimension line; choose from any line type loaded into the current drawing. To access additional linetypes, click **Load**, and then choose one from the Load Linetypes dialog box.
Dim Line LW	Specifies the lineweight of the dimension line; choose from any lineweight supported by BricsCAD.
Dim Line Ext	Specifies the distance that the dimension line extends beyond the extension lines.
Dim Baseline Spacing	Specifies the default distance between dimensions added with the DimBaseline command.
Dim Line 1	Toggles the display of the first half of the dimension line (between the starting extension line and the text).
Dim Line 2	Toggles the display of the second half of the dimension line (between the other extension line and the text).
Ext Line Color	Specifies the color of the dimension line; choose from: • Any Index Color. • Any True Color. • ByBlock. • ByLayer.
Ext Line type	Specifies the line type of both extension lines; choose from any line type loaded into the current drawing. To access additional linetypes, click **Load**, and then choose one from the Load Linetypes dialog box.
Ext Line LW	Specifies the lineweight of the extension line; choose from any lineweight supported by BricsCAD.
Ext Line Ext	Specifies the distance that the extension lines extend beyond the dimension line.
Ext Line Offset	Specifies the offset distance between the object and the start of the extension lines.
Ext Line 1	Toggles the display of the first extension line.
Ext Line 2	Toggles the display of the second extension line.
Ext line type 1	Specifies the line type of the first extension line; choose from any line type loaded into the current drawing. To access additional linetypes, click **Load**, and then choose one from the Load Linetypes dialog box.
Ext line type 2	Specifies the line type of the second extension line; choose from any line type loaded into the current drawing. To access additional linetypes, click **Load**, and then choose one from the Load Linetypes dialog box.
Ext line fixed length	Specifies the length of fixed-length extension lines.
Center Mark	Specifies the type of center mark: • Mark. • Line. • None.
Center Mark Size	Specifies the size of the center mark.
Arc length symbol	Specifies the location of the arc length symbol: • Preceding dimension text. • Above dimension text. • Not displayed.

Jog angle	Specifies the angle of the jog; default is 45 degrees. Enter another angle.

	Description

Text	
Text style	Standard
Text color	■ ByBlock
Text fill	No fill
Text fill color	■ ByBlock
Text height	180 mm
Draw frame around text	No
Text position vertical	Above
Text position horizontal	Centered
Text offset	90
Text vertical offset	180
Text inside align	No
Text outside align	Yes
Text view direction	Left to right

Text Style	Specifies the style for dimension text; can use only styles created with the Style command.
Text Color	Specifies the color of the text; choose from: ● Any Index Color. ● Any True Color. ● ByBlock. ● ByLayer.
Text Fill	Determines whether the dimension text has a rectangular background filled with color. Choose from: ● **No fill** - does not apply a background fill. ● **Background** - uses the background color of the drawing, usually white or black. ● **Color** - uses the color specified by the Text Fill Color option.
Text Fill Color	Specifies the background fill color when Text Fill is set to Color. Choose a color from the drop list, or click **Select Color** to access the Select Color dialog box.
Text Height	Specifies the height of the text.
Draw Frame Around Text	Toggles a rectangle around the text.
Text Pos Vert	Justifies the text vertically relative to the dimension line: ● **Centered** - centers the text on the dimension line. ● **Above** - places the text above the dimension line. ● **Outside** - places text outside of the extension lines. ● **JIS** - generally places text above the dimension line, according to the Japanese Industry Standard.
Text Pos Hor	Justifies the text horizontally relative to the extension lines: ● **Centered** - centers the text between the extension lines. ● **First Extension Line** - places the text near the first extension line. ● **Second Extension Line** - places the text near the second extension line. ● **Over First Extension** - places the text over the first extension line. ● **Over Second Extension -** places the text over the second extension line.
Text Offset	Specifies the size of gap between the dimension line and the text.
Text Inside Align	Justifies text when located between extension lines: ● **Aligned with Dimension Line** - aligns text with dimension line. ● **Horizontal** - forces text to be always horizontal.
Text Outside Align	Justifies text when located outside of the extension lines: ● **Aligned with Dimension Line** - align text with dimension line. ● **Horizontal** - forces text to be always horizontal.

	Description

Fit	
Arrow and text fit	Best fit
Text inside	No
Dim line inside	No
Text movement	Keep dim line with text
Dim scale overall	0.1
Place text manually	No
Dim line forced	No

Arrow and Text Fit	Specifies where text and arrows should be located when there is insufficient space for both between the extension lines: ● **Text and Arrows** - forces both text and arrows between the extension lines.

	• **Arrows Only** - forces arrows to stay within extension lines; moves text outside when there is insufficient space. • **Text Only** - forces text to stay within extension lines; moves arrows outside when there is insufficient space. • **Best Fit** - requires BricsCAD to figure out where to place text and arrows, depending on the space between extension lines.
Text Inside	Toggles whether the text is forced between extension lines: • **On** - forces text between extension lines. • **Off** - draws text outside, if insufficient space between extension lines.
Dim Line Inside	Toggles whether the dimension line is forced between extension lines: • **On** - forces dimension line always between extension lines. • **Off** - draws dimension line outside, if insufficient space between extension lines.
Text Movement	Specifies what happens when text is moved away from its default location: • **Keep dim line with text** - moves dimension line with the text, stretching the extension lines. • **Move text, add leader** - draws a leader between the text and the dimension line. • **Move text, no leader** - does not draw a leader.
Dim Scale Overall	Specifies the overall scale factor for dimensions; this affects the size of arrows and text only. This setting is not editable for annotative dimension styles. It is recommended to set Dim Scale Overall = 1 for annotative dimension styles.
Place Text Manually	Toggles whether the user must always specify the text location when creating dimensions.
Dim Line Forced	Forces the dimension line to be always drawn; forces leaders to be drawn with the DimDiameter and DimRadius commands.

	Description
Primary units	

Primary units	
Dim units	Decimal
Dim precision	0
Fractional type	Horizontal
Decimal separator	.
Dim round	0
Dim prefix	
Dim suffix	
Dim sub-units suffix	
Dim scale linear	1
Dim sub-units scale	100
Suppress leading zeros	No
Suppress trailing zeros	No
Suppress zero feet	Yes
Suppress zero inches	Yes
Dim angle units	Decimal degrees
Dim angle precision	0.0000
Suppress angle leading zeros	No
Suppress angle trailing zeros	No

Dim Units	Specifies the display units for dimensions: • **Scientific** - scientific notation, such as 1.2345E+01. • **Decimal** - metric, such as 1.2345. • **Engineering** - feet and decimal inches, such as 1'-2.3456". • **Architectural** - feet and fractional inches, such as 1'-2 1/16". • **Fractional** - fractional inches only; no feet, such as 14 1/16". • **Windows Desktop** - uses the units set by Windows.
Dim Precision	Specifies the precision of units, either decimal places or fractional accuracy.
Fractional Type	Specifies how fractions are stacked: • **Horizontal** - stacks fractions vertically, with a horizontal separator line. • **Diagonal** - stack stacks diagonally, with a diagonal separator line. • **None** - does not stack fractions, placed horizontally with a slash separator.
Decimal Separator	Specifies the character used to indicate the decimal point; can be any character. North American countries use the period; European countries use the comma.
Dim Round	Specifies the rounding of decimal numbers; range is none to 8 decimal places.
Dim Prefix	Specifies prefix text that appears in front of the dimension text, if any.
Dim Suffix	Specifies suffix text that appears after the dimension text, if any.
Dim sub-units suffix*	Specifies suffix text in case the sub unit is used. For example, enter 'cm' to display .96m to display as 96cm.
Dim Scale Linear	Specifies the multiplier for dimension values, such as 25.4 for changing inches to millimeters.
Dim sub-units scale*	Sets the scale factor for the sub-units. E.g. enter 10 if the drawing unit is cm, and the sub-unit suffix is mm.
Suppress Leading Zeros	Toggles the display of zeros in front of the decimal point; for example, 0.23 is displayed as: • **On** - .23 • **Off** - 0.23
Suppress Trailing Zeros	Toggles the display of zeros in front of the decimal point; for example, 1.2300 is displayed as: • **On** - 1.23 • **Off** - 1.2300
Suppress Zero Feet	Toggles the display of zero feet; for example, 0'-3" is displayed as: • **On** - 3" • **Off** - 0'-3"
Suppress Zero Inches	Toggles the display of zero inches; for example, 1'-0" is displayed as: • **On** - 1' • **Off** - 1'-0"

Dim Angle Units	Specifies the format of units in angular dimensions: • **Decimal Degrees** - 360 degrees in a circle; for example, 123.45 degrees • **Deg/Min/Sec** - degrees, minutes, seconds; for example, 123d 12' 45.67". • **Grads** - 400 grads in a circle; for example, 230g. • **Rads** - 2pi radians in a circle; for example, 1.5r.
Dim Angle Precision	Specifies the number of decimal places; ranges from 0 to 8.
Suppress Angle Leading Zeros	Toggles the display of zero degrees; for example, 0.1234 degrees is displayed as: • **On** - .1234 • **Off** - 0.1234
Suppress Angle Trailing Zeros	Toggles the display of zeros after degrees; for example, 0.1200 degrees is displayed as: • **On** - 0.12 • **Off** - 0.1200

* Suppress leading zeros must be set to *Yes* to display dimension distances less than one unit in sub units

	Description
Alternate units	
Alt enabled	No
Alt units	Architectural Stacked
Alt precision	0'-0 1/4"
Alt scale factor	0.03937
Alt sub-units scale	100
Alt round	0
Alt prefix	
Alt suffix	
Alt sub-units suffix	
Alt suppress leading zeros	No
Alt suppress trailing zeros	No
Alt suppress zero feet	Yes
Alt suppress zero inches	Yes

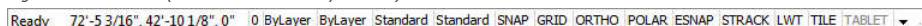| Alternate Enabled	Toggles the display of alternative units: • **On** - second, alternative units displayed to the right of primary units. • **Off** - only primary units are displayed.
Alt Units	Specifies the display units for dimensions: • **Scientific** - scientific notation, such as 1.2345E+01. • **Decimal** - metric, such as 1.2345. • **Engineering** - feet and decimal inches, such as 1'-2.3456". • **Architectural** - feet and fractional inches, such as 1'-2 1/16". • **Fractional** - fractional inches only; no feet, such as 14 1/16". • **Windows Desktop** - uses the units set by Windows.
Alt Precision	Specifies the precision of units, either decimal places or fractional accuracy.
Alt Scale Factor	Specifies the multiplier for alternate values, such as 25.4 for showing millimeters (alternate units) next to inches (primary units).
Alt Round	Specifies the rounding of alternate numbers; range is none to 8 decimal places.
Alt Prefix	Specifies prefix text that appears in front of the alternate text, if any.
Alt Suffix	Specifies suffix text that appears in after the alternate text, if any.
Alt Leading Zeros	Toggles the display of zeros in front of the decimal point; for example, 0.23 is displayed as: • **On** - .23 • **Off** - 0.23
Alt Trailing Zeros	Toggles the display of zeros in front of the decimal point; for example, 1.2300 is displayed as: • **On** - 1.23 • **Off** - 1.2300
Alt Zero Feet	Toggles the display of zero feet; for example, 0'-3" is displayed as: • **On** - 3" • **Off** - 0'-3"
Alt Zero Inches	Toggles the display of zero inches; for example, 1'-0" is displayed as: • **On** - 1' • **Off** - 1'-0"

	Description

Tolerances	
Tolerance display	No
Limits display	No
Tolerance precision	0.0000
Tolerance limit lower	0
Tolerance limit upper	0
Tolerance text height	1 mm
Tolerance position vertical	Middle
Tolerance suppress leading zeros	No
Tolerance suppress trailing zeros	No
Tolerance suppress zero feet	Yes
Tolerance suppress zero inches	Yes
Alt tolerance precision	0'-0 1/4"
Alt tolerance suppress leading zeros	No
Alt tolerance suppress trailing zeros	0
Alt tolerance suppress zero feet	Yes
Alt tolerance suppress zero inches	Yes

Tolerance Display	Toggles the display of tolerance text.
Tolerance Precision	Specifies the display precision of tolerance text; range is 0 to 8 decimal places or 1/1 to 1/256 inch.
Tolerance Limit Lower	Specifies the value of the upper tolerance.
Tolerance Limit Upper	Specifies the value of the lower tolerance.
Tolerance Text Height	Specifies the height of tolerance text.
Tolerance Pos Vert	Locates the tolerance text relative to the dimension text: • **Bottom** - aligns tolerance text with the bottom of the dimension text. • **Middle** - aligns tolerance text with the middle of the dimension text. • **Top** - aligns tolerance text with the top of the dimension text.
Tolerance Suppress Leading Zeros	Toggles the display of zeros in front of the decimal point.
Tolerance Suppress Trailing Zeros	Toggles the display of zeros behind the decimal point.
Tolerance Suppress Zero Feet	Toggles the display of zero feet.
Tolerance Suppress Zero Inches	Toggles the display of zero inches.
Alt Tolerance Precision	Specifies the number of decimal places for tolerances in alternate units.
Alt Tolerance Suppress Leading Zeros	Toggles the display of zeros in front of the decimal point.
Alt Tolerance Suppress Trailing Zeros	Toggles the display of zeros behind the decimal point.
Alt Tolerance Suppress Zero Feet	Toggles the display of zero feet.
Alt Tolerance Suppress Zero Inches	Toggles the display of zero inches.

Status Bar Menu

Right-click **Standard** (or other dimension style name) on the status bar for the shortcut menu:

Ready	72'-5 3/16", 42'-10 1/8", 0"	0 ByLayer ByLayer Standard Standard SNAP GRID ORTHO POLAR ESNAP STRACK LWT TILE TABLET ▼

Shortcut Menu	Description
Standard	Chooses the default dimension style. When the drawing contains additional dimension styles, their names are listed here.
Properties	Opens the Dimension Styles section of the Drawing Explorer.

Procedures

Exploring dimension styles
Comparing dimension styles
To list the current status of the dimension variables
To create a new dimension style
To edit a dimension style
To define dimension style overrides
To rename a dimension style
To set a dimension style current
Using the status bar to set a dimension style current
To copy a dimension style between drawings
To move a dimension style between drawings
To delete a dimension style

Related Commands

AiDimStyle - creates Dimension Styles based on the properties of selected Dimension, Tolerance or Leader entities.
-Dimstyle - creates and modifies dimension styles at the command line.
Explorer - opens the Drawing Explorer dialog box.