

Parametric (dimensional constraints) — GstarCAD 2027

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Parametric (dimensional constraints)

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Parametric (Dimensional Constraints) is a powerful tool for controlling the size and position relationships of graphics objects, ensuring that the size and shape of graphics remain consistent during editing.

Including: 1) 7 kinds of dimensional constraints, respectively: linear, horizontal, vertical, aligned, angular, radius, diameter; 2) 2 clock auxiliary functions: form, convert.

This feature is only available in Premium version.

Add the following parametric constraint-related commands:

1  [DIMCONSTRAINT](#)

Controls the size and position relationships of graphics objects, ensuring that the size and shape of graphics remain consistent during editing.

2  [DCLINEAR](#)

Constrains the horizontal or vertical distance between two points.

3 [DC HORIZONTAL](#)

Constrains the X distance between points on an object, or between two points on different objects.

4 [DC VERTICAL](#)

Constrains the Y distance between points on an object, or between two points on different objects.

5 [DC ALIGNED](#)

Constrains the distance between two points on an object or between two points on different objects.

6 [DC ANGULAR](#)

Constrains the angle between line or polyline segments, the angle swept out by an arc or a polyline arc segment, or the angle between three points on objects.

7 [DC RADIUS](#)

Constrains the radius of a circle or an arc.

8 [DC DIAMETER](#)

Constrains the diameter of a circle or an arc.

9 [DCFORM](#)

Specifies whether the dimensional constraint being created is dynamic or annotational.

10 [DCCONVERT](#)

Converts associative dimensions to dimensional constraints.

11 [DCDISPLAY](#)

Displays or hides the dynamic constraints associated with a selection set of objects.

12 [CONSTRAINTSETTINGS](#)

Controls the display of geometric constraints within the CAD software.

13 [PARAMETERS](#)

Controls the associative parameters used in the drawing.

Added parametric constraint related system variables:

1 [CCONSTRAINTFORM](#)

Controls which to be applied to objects, the annotative constraint or dynamic constraint.

2 [CONSTRAINTNAMEFORMAT](#)

Controls the text format of labeled constraints in the CAD software.

3 [DIMCONSTRAINTICON](#)

Controls the display of the lock icon for dimensional constraints.

4 [DYNCONSTRAINTMODE](#)

Displays hide dimension constraint when selected constrained objects.

5 [PARAMETERCOPYMODE](#)

Controls how to deal with constrains and users parameters of reference when copying constrained objects between drawing, model space, and layouts, and block definitions.

6 [PARAMETERSSTATUS](#)

Specifies whether the parameter manager is displayed or hidden.

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