

GEOMCONSTRAINT Command — GstarCAD 2027

3218 kbadmin September 25, 2026 [Command Reference](#) 0 6

GEOMCONSTRAINT Command

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Commands > G Command > GEOMCONSTRAINT

Function Description:

Applies geometric relationships between objects or between points on objects, or maintains these relationships permanently.

When applying geometric constraints to a pair of objects, the order in which you select the objects and the points on each object can affect how the objects are positioned relative to each other.

Command Access:

Icon: /

Menu Item: /

Function Area: /

Toolbar: /

Command Line: GEOMCONSTRAINT

Command Alias:/

Command Prompts:

Enter constraint type [Horizontal (H) / Vertical (V) / Perpendicular (P) / Parallel (PA) / Tangent (T) / Smooth (SM) / Coincident (C) / Concentric (CON) / Collinear (COL) / Symmetric (S) / Equal (E) / Fixed (F)] <Horizontal>: Each branch option of this command is equivalent to each of the separate commands 1-12.

The following commands are equivalent to each GEOMCONSTRAINT option:

GCCOINCIDENT

Constrains two points to coincide or a point to lie on a curve (or the curve's extension).

GCCOLLINEAR

Aligns two or more line segments to be in the same straight line direction.

GCCONCENTRIC

Constrains two arcs, circles, or ellipses to share the same center point.

GCFIX

Locks a point or a curve in place, preventing it from moving.

GCPARALLEL

Makes selected lines parallel to each other.

GCPERPENDICULAR

Positions selected lines at right angles to each other.

GCHORIZONTAL

Aligns a line or a pair of points to be parallel to the X-axis of the current coordinate system.

GCVERTICAL

Aligns a line or a pair of points to be parallel to the Y-axis of the current coordinate system.

GCTANGENT

Constrains two curves to be tangent to each other or their extensions to be tangent.

GCSYMMETRIC

Applies symmetry constraint to selected objects relative to a selected line.

GCSMOOTH

Constrains a spline curve to be continuous and maintain G2 continuity with other spline curves, lines, arcs, or polylines.

GCEQUAL

Adjusts the size of selected arcs and circles to have the same radius, or adjusts the size of selected lines to have the same length.

Other versions with matching text

[2025](#) · [2026](#)

Online URL: <https://www.kb2.gstarcad.com.my/article.php?id=3218>