



Autosign

by **CGS Labs**



Gantry

Tutorial





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Gantry

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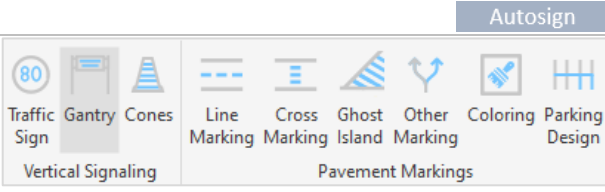
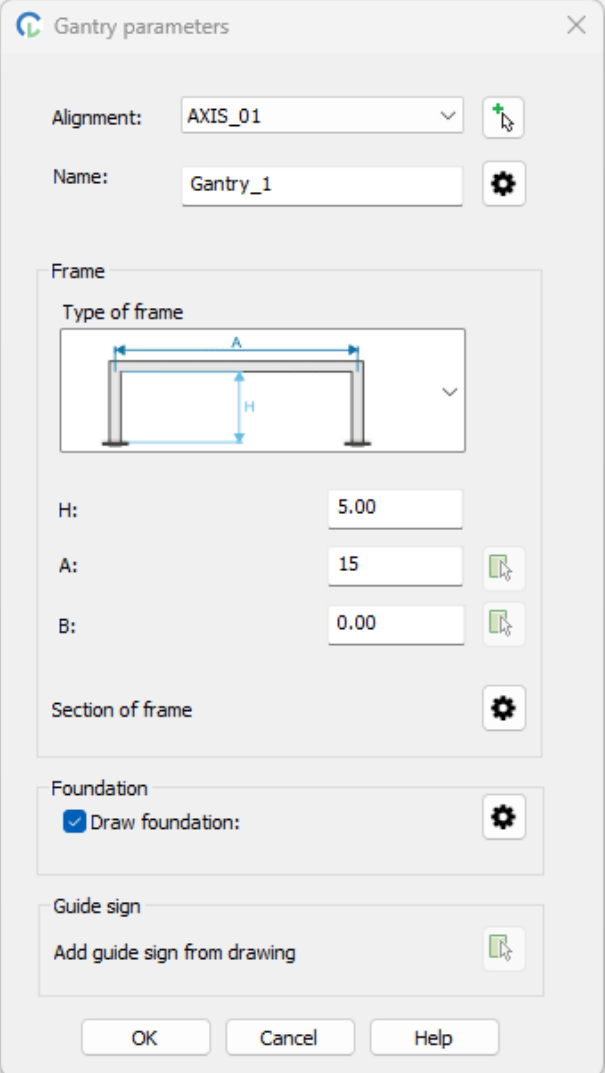
INTRODUCTION

The Autosign program allows users to add a gantry to their drawings, onto which they can attach various signs or boards. This tutorial will show how to create a 2D gantry in the layout and how to add guide signs to it. Following that, it will demonstrate how to edit the gantry, and finally, how to easily and quickly create a 3D model from the 2D gantry.



Creating a Gantry

Define Gantry Parameters

<p>1. Start the Autosign application and open the drawing where you want to add the gantry. Navigate to the toolbar and select the "Gantry" tool.</p>	 <p>The toolbar includes icons for Traffic Sign, Gantry, Cones, Line Marking, Cross Marking, Ghost Island Marking, Other Marking, Coloring, and Parking Design. The Gantry icon is highlighted.</p>
<p>2. Select Alignment: If your drawing in Plateia, Civil 3D, or BricsCAD includes an alignment, select it from the drop-down menu. Based on this alignment, the station of the gantry will be calculated and labeled.</p> <p>3. Define Gantry Name: Enter the name of the gantry in the designated field.</p> <p>4. Select Frame: Choose the appropriate frame from the drop-down menu. Define parameters such as width and height.</p> <p>5. Define Frame Section: Specify the section of the frame. The section can be either rectangular or circular.</p> <p>6. Optional Foundation Drawing: You have the option to draw a foundation. By clicking the foundation icon (⚙️), you can set additional parameters for the foundation.</p> <p>7. Finalize: After setting all the necessary parameters, click "OK" to apply the changes.</p>	 <p>The dialog box is titled "Gantry parameters" and contains the following fields and options:</p> <ul style="list-style-type: none">Alignment: A dropdown menu set to "AXIS_01".Name: A text field containing "Gantry_1".Frame: A section containing a diagram of a gantry frame with dimensions A (width) and H (height). Below the diagram are input fields for H (5.00), A (15), and B (0.00).Section of frame: A dropdown menu with a gear icon for settings.Foundation: A checkbox labeled "Draw foundation:" which is checked.Guide sign: A checkbox labeled "Add guide sign from drawing". <p>At the bottom of the dialog are buttons for "OK", "Cancel", and "Help".</p>

Positioning the Gantry

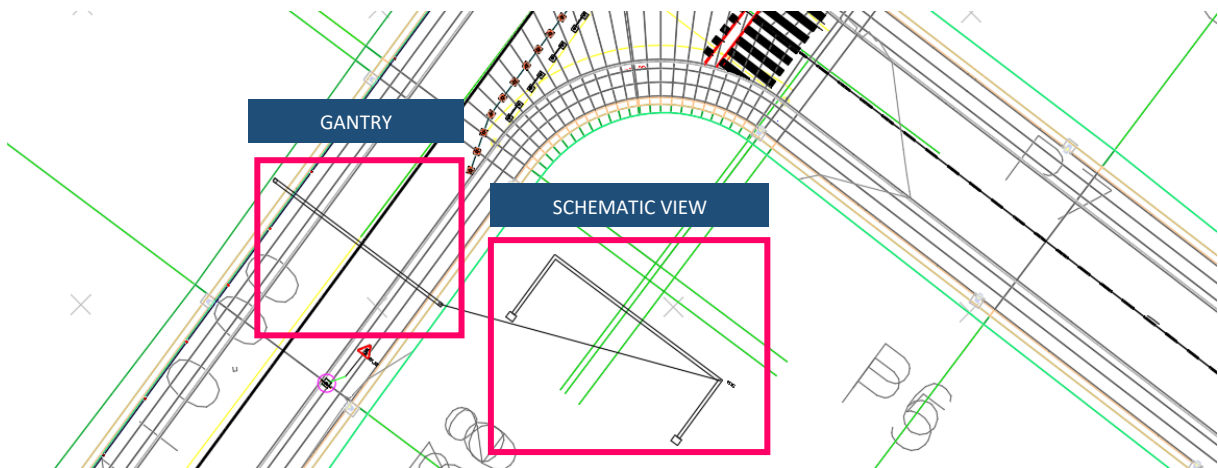
1. Place the Gantry:

With Alignment: Directly in the drawing, use your mouse to determine the position of the gantry. If you have previously selected an alignment, the gantry will automatically align with the axis. The base point will adjust as you move the mouse to the left or right side of the road.

Without Alignment: If your drawing does not include an alignment, you can use the command line to select the "basepoint" and "rotate" options. This will make it easier to rotate and position the gantry at the desired location.

2. Set the Schematic View Position:

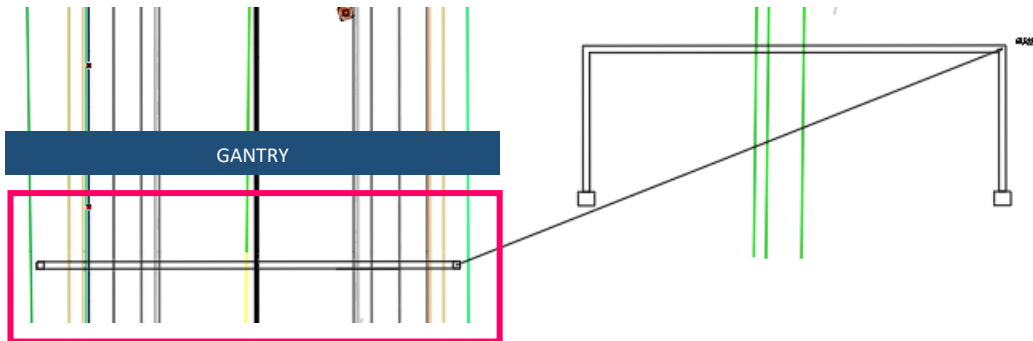
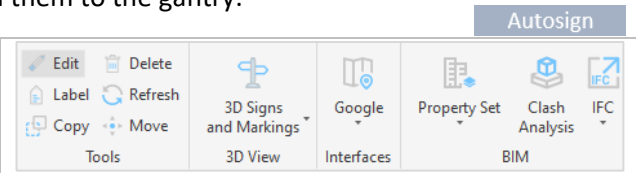
After positioning the gantry, set the position for the schematic view of the gantry. This schematic view will later have traffic signs added to it. It is crucial to orient this view correctly, as it will help you determine the placement and direction of the signs.



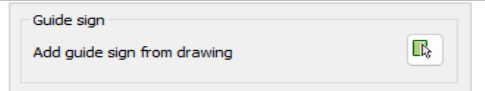
Add Guide Sign from Drawing

When adding guide signs to the gantry, it is important that these signs are already inserted into the drawing. You can place them, for example, to the right of the layout, where you can easily access and edit them. Once they are prepared, you can add them to the gantry.

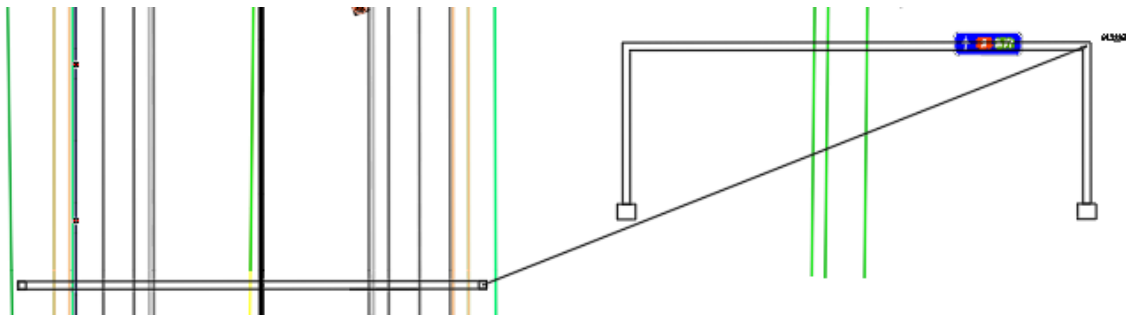
1. Run the "Edit" command, select the gantry in the drawing, and the dialog box for editing the gantry will open.



2. Then click on the icon "Add Guide Sign from Drawing."

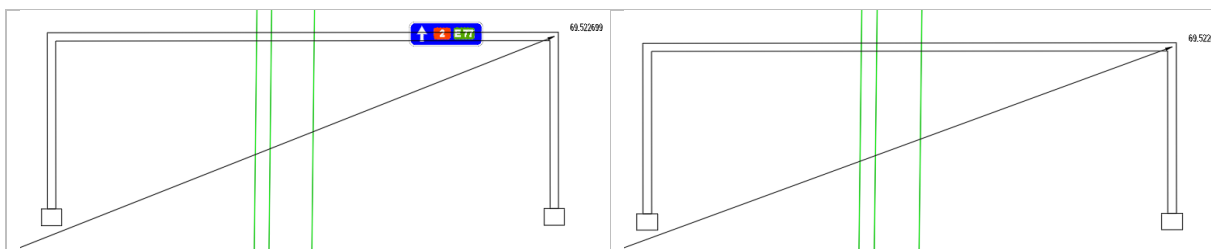


3. Next, in the drawing, select the sign you want to add to the gantry and press Enter.
4. Then, use the mouse to define the position of the sign on the gantry. This must be done on the schematic view of the gantry



5. Next, the program will ask you if the guide sign is facing the alignment direction or not. In the command line, respond with "yes" or "no." Then, the dialog box with the gantry parameters will reopen. If you want to add another sign, click the "Add Guide Sign from Drawing" button again and repeat the last step; otherwise, click "OK."

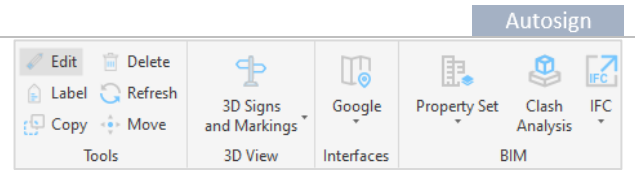
****To delete a guide sign on the gantry, simply select it and delete it using the CAD "Delete" command.***



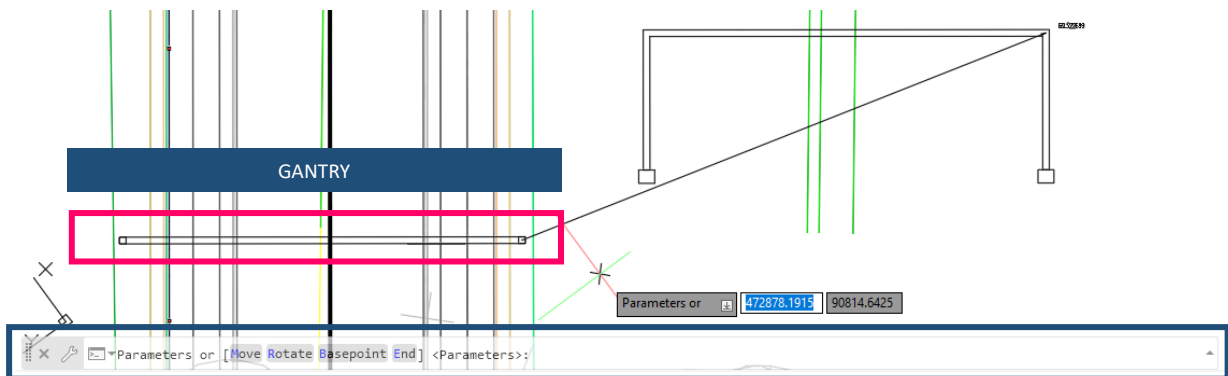
Editing the Gantry

Editing the Location of Gantry

1. Run the "Edit" command.

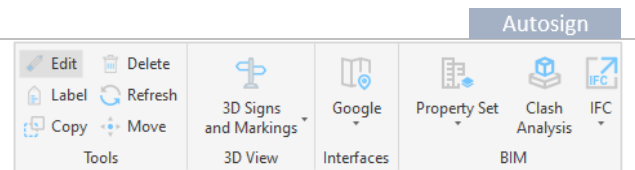


2. Select the gantry and then choose the Move or Rotate option from the command bar.

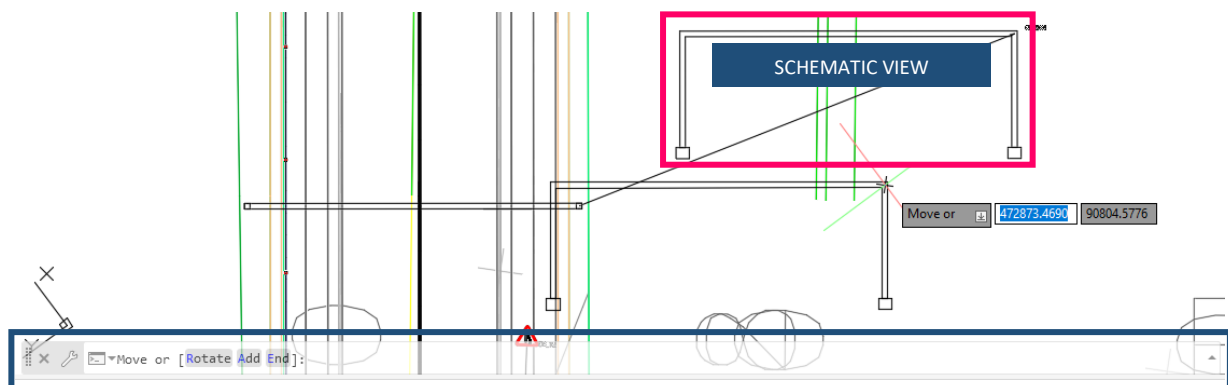


Editing the Location of Schematic View

1. Run the "Edit" command.

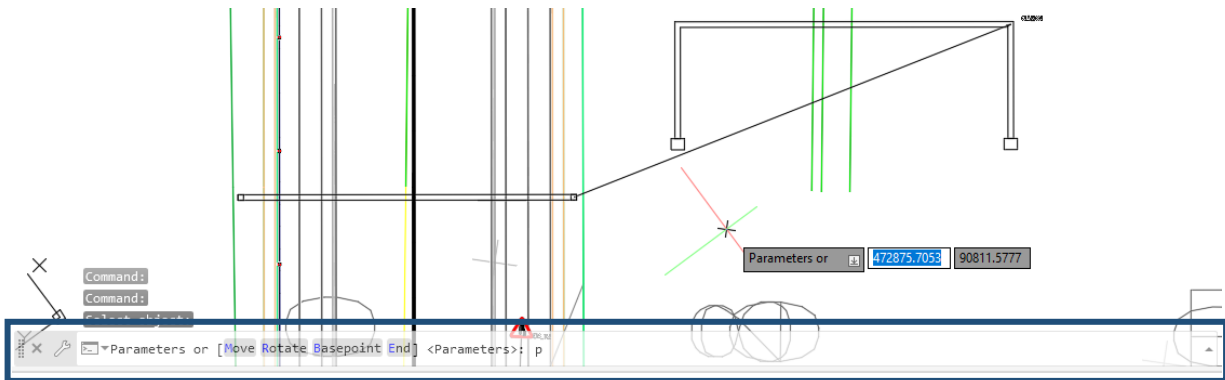
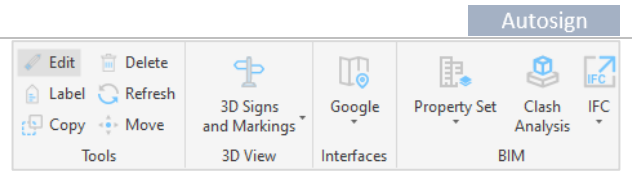


2. Select the schematic view of the gantry, and the option to move the schematic view will appear automatically. Alternatively, you can select the rotate option in the command bar to rotate it.



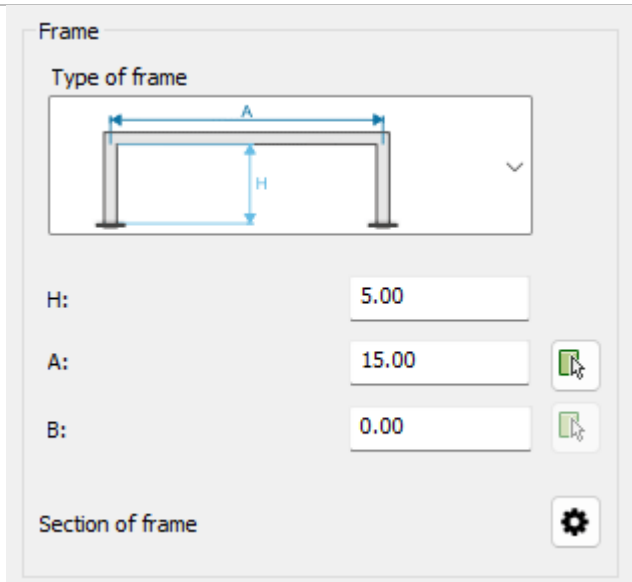
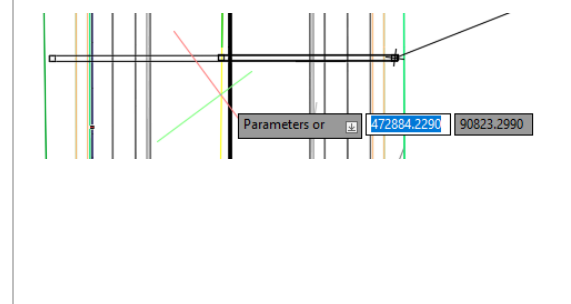
Editing Parameters

1. To edit the parameters, run the "Edit" command and select Gantry. Since the parameters option is selected by default in the command bar, simply press Enter to open the dialog box for editing the selected gantry.



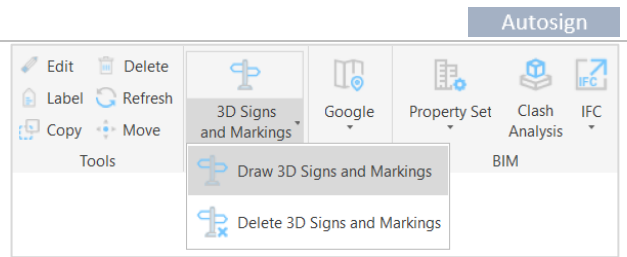
In the dialogue box this time, you also have the option to directly specify the frame dimensions within the drawing.

Click on the icon next to the dimension and then specify the dimension directly within the drawing using the mouse.



Creating a 3D Model of a Gantry

1. Run the "Draw 3D Signs and Markings" command.



2. In the dialogue box, select the surface on which the gantry will be projected.

3. Then, click OK.

