

3.2- DRAWING AXIS

Axes should necessarily be drawn first, in order to perform any drawing in StatiCAD-Yigma software. Axes are drawing guides that ensure the project is carried out by sharp and absolute measures. As static calculations are based on axes; static connections between elements connected to different axes in walls, horizontal bond beams and slabs in the same story cannot be considered. However, sharing axes of same coordinates or names is not necessary for the objects to perform load transfer between stories. Draw Axis toolbar can be displayed by clicking  button.



Figure: Draw Axis Toolbar

When Draw Axis button is clicked in the main window, draw axis toolbar is displayed. Buttons in this toolbar and their functions are listed below.



Draw Horizontal Axis



Draw Vertical Axis



Draw Oblique Axis



Get distance of new axis from last drawn axis



Get distance of new axis from marked axis



New axis distance



Draw axis according to the marked options

If no axis was previously drawn in the specified direction, first horizontal or vertical axis can be drawn by setting axis distance to 0 (or any other number) and clicking  button when  button is selected.

To draw axis, orientation of the axis should be specified by clicking  or  button.

 or  button should be selected in order to specify whether the axis will be drawn according to the distance from last axis or the distance from marked axis.

If  button is on, reference axis should be selected with left mouse click, accordingly with the selection status of  or  buttons.

Axis is drawn by entering the displacement range in  box and clicking  button.

This procedure is repeated for every axis to be drawn.

To delete a drawn axis, select the axis by left clicking; and then right click over the axis or another object and select Erase from the drop-down menu. You can also click the  button in the main window, or select Erase option from Edit menu.

To move an axis, right click on the axis and select Axis Property Change. Move the axis by entering displacement range or global coordinates in the displayed window.

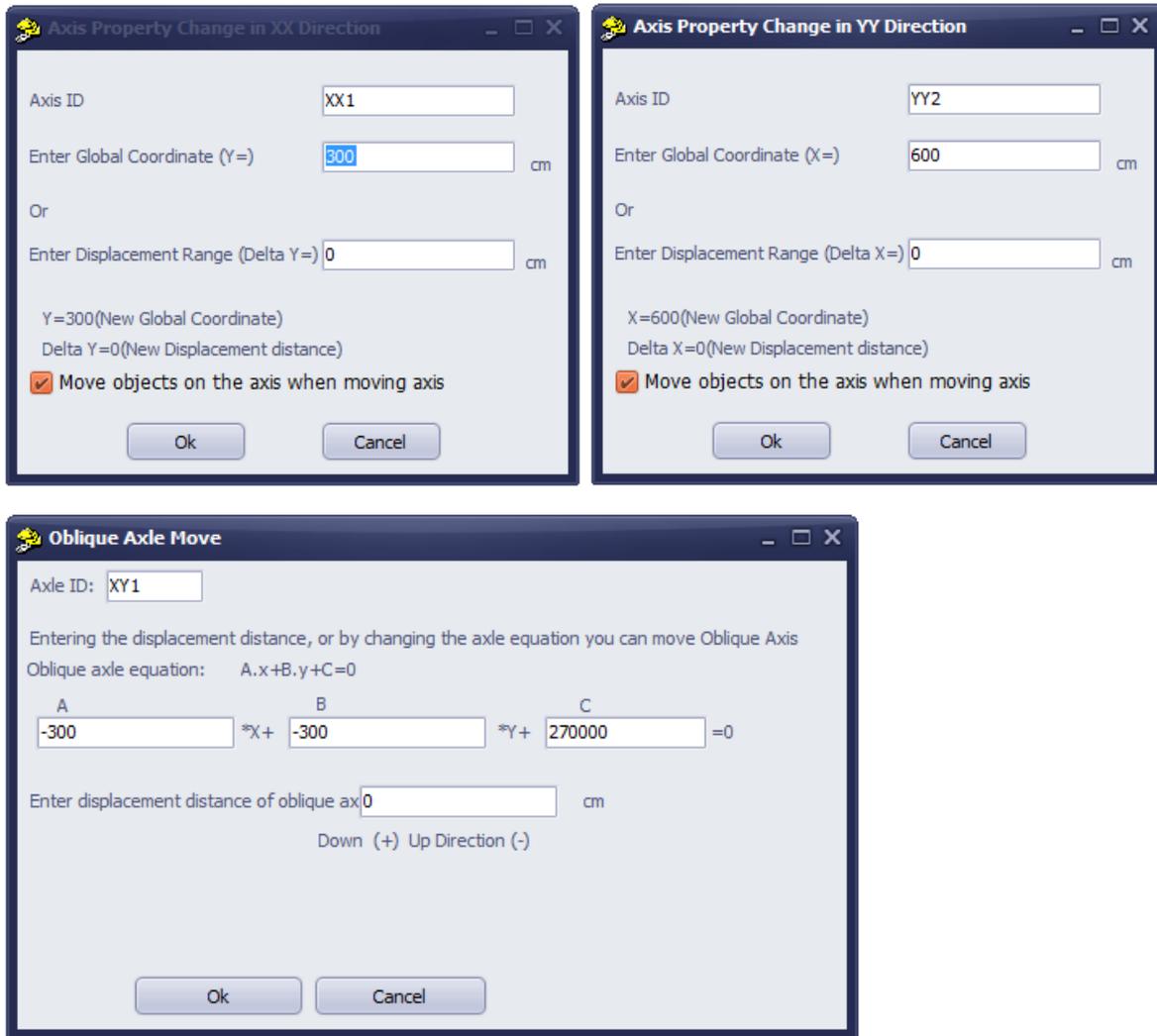
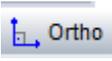


Figure: Dialog windows for moving horizontal, vertical and oblique axis

To draw an oblique axis, orthogonal drawing mode (ortho) option  should be disabled.

To draw an oblique axis,  button is selected; first and second points of the oblique axis are marked in the main window, regarding the intersection points of previously drawn axes.

To erase an incorrect oblique axis, left click on an empty area on the axis, then click erase command in the right-click menu or Edit menu.