Array Pattern

This command allows the user to generate shapes along 2 directions, in order to form an array of objects. The plane in which the objects are drawn is the current drawing plane. Because the two directions should be perpendicular, only one is required as parameter. The second is calculated by NaroCAD.

Array pattern works like this:

The user selects a shape

The user selects an axis

A dialogue box appears

The shape to pattern can be any kind of shape. The axis must be a line (for example a normal line, a part of a poly-line, etc). The dialogue box has 4 parameters and 2 check boxes.

Two of the parameters are the number of rows and colomns. The other two parameters are the distance between the objects in each row and colomn. This distances are required because array pattern works on every shape. Let's say that NaroCAD could calculate some distances for rectangles or circles, but the same doesn't happen for custom shapes(like stars, non-planar surfaces, fused solids, etc). This is why the user has to fill these values. The distance parameters represent the row and colomn distance between the object's base points.

After starting the array pattern command, some default values will automatically be added.

Notice that the direction of the circular pattern is given by the way the axis was generated. This means that the shapes might not be generated on the desired direction. To reverse the direction, the user can check the appropriate check box. The same goes for the calculated colomn direction.

If you need any more parameters for the circular pattern, don’t hesitate to write on forum.

The images below show how array pattern can be used: