

LINES

IMPORTANT NOTE:

When drawing an entity with a tool icon you can change snap between each click required to complete the entity

2 Points:

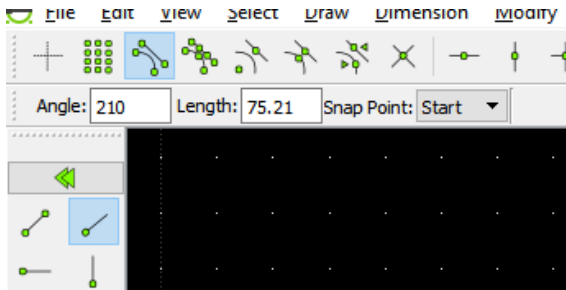


When selected it will prop the tool options: Close, Undo, Redo. Draws a line from a first point to a second point. If one draws more than one line, clicking on Close will automatically close the entity from the last drawn point to the first.

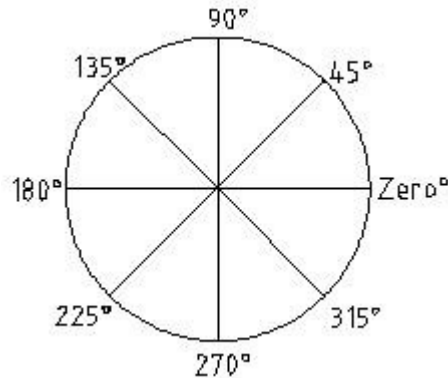
Angle:



When selected it will prop the tool options: Angle, Length, Snap Point:



It will draw a line from the snap point chosen at the angle and the length set.



The example above shows 8 lines drawn with "Snap Centre", length equal to radius and the angles as indicated.

Horizontal:



When selected it will prop the tool options: Length, Snap Point. It will draw a horizontal line from the snap point chosen at the length set.

Vertical:



When selected it will prop the tool options: Length, Snap Point. It will draw a vertical line from the snap point chosen at the length set.

Rectangle:



Draws a rectangle or a square from two opposite points: the lower left corner and the upper right corner. The sides will be parallel to the X and Y axes.


Parallel:




When selected it will prop the tool options: Distance, Number. It will draw the set number of lines parallel to any line on the drawing at the given distance when the mouse is moved over said line, left click when the parallels are located where one wants them to be.

Parallel through point: 


When selected it will prop the tool options: Number. It will draw the set number of lines parallel to any line on the drawing, the first one going through a given point depending on the Snap option, left click when the parallels are located where one wants them to be.

Bisector: 

When selected it will prop the tool options: Length, Number. It will draws the bisector(s) of two crossing lines. Whether or not the cross point of the original lines is visible, the bisector will start from it. With n number, it will draw n new lines dividing the angle in n+1 equal angles.

Tangent (P,C): 

Draws a line tangent to an existing circle, arc or ellipse from a chosen point.

Tangent (C,C): 

Draws a line tangent to two existing circles, arcs or ellipses or a combination of them.

Tangent Orthogonal: 

Draws a line square to another one and tangent to a circle, arc or ellipse.

Orthogonal: 

When selected it will prop the tool option: Length. It will draw a line square to another one, the length will be equal to the value inserted either side of the crosshairs, as a result the new line will be twice as long as defined.

It can also be used with a circle, in this case it will draw a line square to a radius.

It can also be used with an arc, in this case it will draw a line square to the arc itself.

Relative angle: 


When selected it will prop the tool option: Angle, Length. It will draw a line at the given angle to another line, the length will be equal to the value inserted either side of the crosshairs, as a result the new line will be twice as long as defined.

It can also be used with a circle, in this case it will draw a line at given angle to a radius.


It can also be used with an arc, in this case it will draw a line at given angle to the arc itself.

Polygon (Cen, Cor): 

When selected it will prop the tool option: Number. It will draw a polygon with the given number of sides, defining center and one corner.

Polygon (Cor, Cor): 

When selected it will prop the tool option: Number. It will draw a polygon with the given number of sides, defining two corners.

Freehand Line: 

It will draw a freehand line so long as one keeps the left mouse button down.