

Engineering Drawing Yasir Abdulhafedh

2. Drawing Commands

Drawing commands can be entered from the keyboard (command line), the draw toolbar, or the draw pull down menu.



2.1.Line

Draw Line simple lines or series of lines segments .access to command line by one way of the following: *1. Command Line: Line or L*

2. Menu Bar: Draw \rightarrow Line

3. Draw Bar

When execute command line the program requires specify first point, display in command line: Specify first Point: Specify next point or [Undo]: Specify next point or [Close/Undo]:

Options:

- C: this option close series of lines, connect first point with last point by line.
- U: enter U for undo. AutoCAD backs up one segment, undoing it so that you can recreate it.



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Specify next point: @-2,0 Specify next point: @0,6 Specify next point: @-2,0 Specify next point: @0,-8 or C

Relative Polar Coordinate System

Command: Line Specify first point:0,0 Specify next point:@10<0 Specify next point:@8<90 Specify next point:@2<180 Specify next point:@6<270 Specify next point:@2<180 Specify next point:@6<90 Specify next point:@2<180 Specify next point:@2<180 Specify next point:@6<90 Specify next point:@6<90 Specify next point:@6<90 Specify next point:@2<180 Specify next point:@2<180 Specify next point:@2<180

Example: Draw the figure note the figure is start from original point (0,0) .and the angle between sides is 45

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<0,0>

Absolute Coordinate System

Command: Line Specify first point: 0, 0 Specify next point: 3.5,-3.5 Specify next point: 7, 0 Specify next point: 10.5,-3.5 Specify next point: 14, 0 Specify next point: 10.5, 3.5 Specify next point: 14, 7 Specify next point:10.5,10.5 Specify next point:7,7 Specify next point: 3.5, 10.5 Specify next point:0,7 Specify next point: 3.5, 3.5 Specify next point:0,0 or C **Relative Coordinate System** Command: Line Specify first point:0,0 Specify next point:@3.5,-3.5 Specify next point:@3.5,3.5 Specify next point: @3.5,-3.5 Specify next point: @3.5,3.5 Specify next point: @-3.5,3.5 Specify next point: @3.5,3.5



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Specify next point: @-3.5,3.5 Specify next point: @-3.5,-3.5 Specify next point:@-3.5,3.5 Specify next point: @-3.5,-3.5 Specify next point: @3.5,-3.5 Specify next point: @-3.5, -3.5 or C **Relative Polar Coordinate System** Command: Line Specify first point:0,0 Specify next point:@5<315 Specify next point:@5<45 Specify next point:@5<315 Specify next point: @5<45 Specify next point:@5<135 Specify next point: @5<45 Specify next point:@5<135 Specify next point: @5<225 Specify next point: @5<135 Specify next point:@5<225 Specify next point: @5<315 Specify next point: @5<225 or C 2.2. Rectangle 1. Command Line: Rectangle, Rec. 2. Menu **Bar: Draw** ⇔ Rectangle. 3. Draw Bar. **Options:** *C*: The chamfer command enables to place a chamfer at the rectangle corner. You can set the chamfer distance for the two lines independently. Specify first chamfer distance for rectangles<0.000>: Specify second chamfer distance for rectangles<0.000>: F: the fillet command creates both fillets and rounds on any combination of two lines, arcs, or circles. Specify fillet radius for rectangles<0.000>: W: rectangle can have a width (the default width is 0). 13



Specify line width for rectangles<0.000>:

Example. Draw the figure below (13 Ampere socket outlet), note the figure is start from the point (0,0)



Absolute Coordinate System

Command:Rec

Specify first corner point or [Chamfer/ Elevation / Fillet / Thickness / Width]: f

Specify fillet radius for rectangles: 0.5

Specify first corner point: 0, 0

Specify other corner Point: 7, 7

Command: Rec

Specify first corner point or [Chamfer/ Elevation / Fillet / Thickness / Width]: C Specify first chamfer distance for rectangles: 0.1

Specify second chamfer distance for rectangles: 0.1

Specify first corner point: 0.75, 1.25

Specify other corner Point: 2.75, 2.25

Command: Rec

Specify first corner point or [Chamfer/ Elevation / Fillet / Thickness / Width]: C

Specify first chamfer distance for rectangles: 0.1

Specify second chamfer distance for rectangles: 0.1

Specify first corner point: 4.25, 1.25

Specify other corner Point: 6.25, 2.25

Command: Rec

Specify first corner point or [Chamfer/ Elevation / Fillet / Thickness / Width]: C

Specify first chamfer distance for rectangles: 0.1

Specify second chamfer distance for rectangles: 0.1

Specify first corner point: 3, 4.25

Specify other corner Point: 4, 6.25



d.2.0

Command: Rec

Specify first corner point or [Chamfer/ Elevation / Fillet / Thickness / Width]: f

Specify fillet radius for rectangles: 0.5

Specify first corner point: 0, 0

Specify other corner Point: @7, 7

Command: Rec

Specify first corner point or [Chamfer/ Elevation / Fillet / Thickness / Width]: C

Specify first chamfer distance for rectangles:0.1

Specify second chamfer distance for rectangles:0.1

Specify first corner point: 0.75, 1.25

Specify other corner Point: @2, 1

Command: Rec

Specify first corner point or [Chamfer/ Elevation / Fillet / Thickness / Width]: C

Specify first chamfer distance for rectangles:0.1

Specify second chamfer distance for rectangles:0.1

Specify first corner point: 4.25, 1.25

Specify other corner Point: @2,1

Command: Rec

Specify first corner point or [Chamfer/ Elevation / Fillet / Thickness / Width]: C

Specify first chamfer distance for rectangles:0.1

Specify second chamfer distance for rectangles:0.1

Specify first corner point: 3, 4.25 Specify other corner Point: @1, 2

Relative Polar Coordinate System

Command: Rec

Specify first corner point or [Chamfer/ Elevation / Fillet / Thickness / Width]: f

Specify fillet radius for rectangles: 0.5

Specify first corner point: 0,0

Specify other corner Point:@9.89<45

Command: Rec

Specify first corner point or [Chamfer/ Elevation / Fillet / Thickness / Width]:C

Specify first chamfer distance for rectangles:0.5

Specify second chamfer distance for rectangles:0.5

Specify first corner point: 0.75, 1.25

Specify other corner Point:@2.23<26.56

Command: Rec

Specify first corner point or [Chamfer/ Elevation / Fillet / Thickness / Width]: C

Specify first chamfer distance for rectangles: 0.5

Specify second chamfer distance for rectangles: 0.5

Specify first corner point: 4.25, 1.25

Specify other corner Point:@2.23<26.56

Command: Rec

Specify first corner point or [Chamfer/ Elevation / Fillet / Thickness / Width]: C

Specify first chamfer distance for rectangles: 0.5

Specify second chamfer distance for rectangles: 0.5