



Andhra Pradesh State Skill Development Corporation



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AutoCAD(CIVIL)

Draw Tools Part-1



DRAW PANEL

DRAW TOOLS PART-1

Draw tools are used to create a drawing in AutoCAD

Line (L Enter)

It can be used for making simple lines in the drawing.

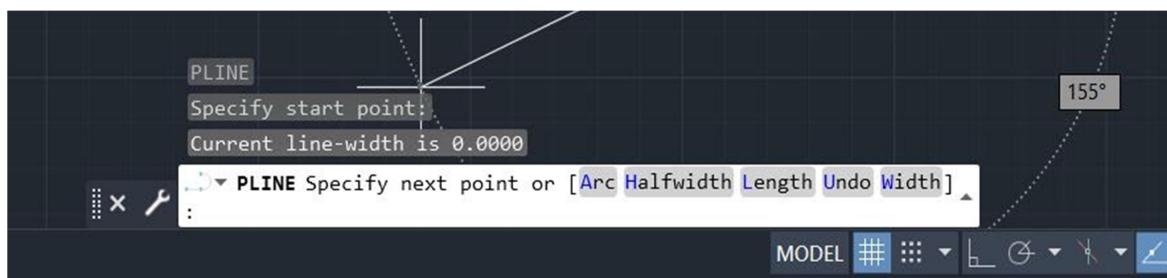
- Select line command from draw tools (or) L enter
- Specify first point distance from origin (0,0)
- Specify next point distance and then enter
- that can be used repeatedly whenever you want to create no. of lines

Polyline (PL Enter)

This command can be used to make a Polyline in your drawing.

- Select polyline command from draw panel (or) PL Enter
- Specify start point
- Specify next point
- Enter
- That can be used repeatedly whenever you want to create polylines

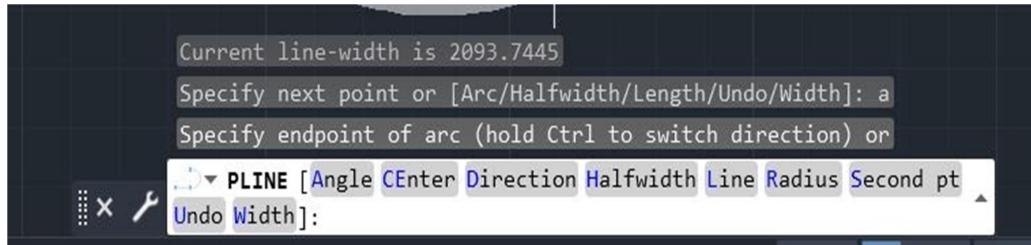
SOME OF THE SUB OPTIONS OF POLYLINE ARE:



This allows you to quickly select the different types like arc, half width, length, undo, width, for creating different objects.

Pline arc

- Select polyline command from draw panel (or) PL Enter
- A enter for arc
- You will get some of the sub options of polylines
- This allows you to quickly select the different type like,(angle, Center, Direction, Half width, lines, radius, second pt, undo, width):



- Select angle or A--enter for angle
 - Specify including angle
 - Specify end point of arc or C--enter for close
 - If R-- enters for radius
 - Specify radius of arc
 - Specify direction of chord for arc
 - Enter
- Select Center or CE--enter for Center point
 - Specify center point of arc
 - Specify end point of arc or (angle & length)
 - If A--Enter for angle
 - Specify including angle
 - If I--Enter for Length
 - Specify length of chord and then close
- Select Center or D--enter for Direction
 - Specify the tangent direction for the start point of arch
 - Specify end point of arc and then close
- Select Center or H--enter for Half width
 - Specify starting half width
 - Specify end half width and then close
- Select Center or L--enter for Line
 - Specify start point
 - Specify next point and then enter
- Select Center or R--enter for Radius
 - Specify radius of arc
 - Specify end point of arc or angle
 - If A--enter for angle
 - Specify including angle and then enter
- Select Center or S--enter for Second point
 - Specify second point on arch
 - Specify end point of arc
- Select Center or w--enter for width
 - Specify starting width
 - specify ending width and then enter
- Select Center or U--enter for Undo
 - Select undo or Use ctrl+z for preview

P Line half width

- Select polyline command from draw panel (or) PL Enter
- H enter for Half width
- Specify starting half-width
- Specify ending half-width
- C--Enter for close or use to create some sub options like length & width
- If L--Enters for Length



- Specify length of line & close
- If W--enters width
- Specify starting width
- Specify ending width and then enter

P Line length

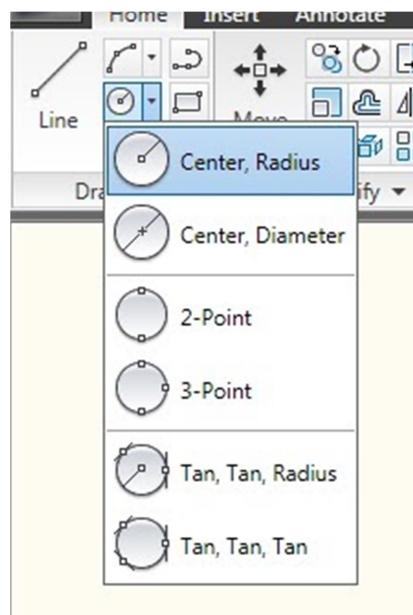
- Select polyline command from draw panel (or) PL Enter
- L--Enters for Length
- Specify length of line & close

P Line width

- Select polyline command from draw panel (or) PL Enter
- W--enters width
- Specify starting width
- Specify ending width and then enter

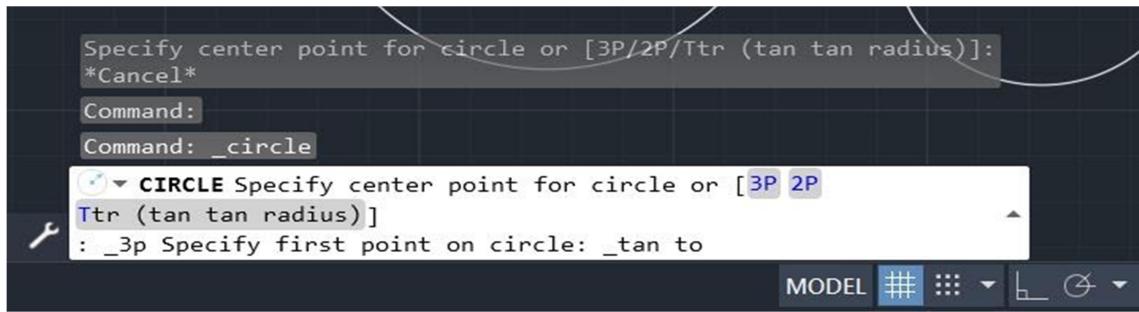
Circle (C Enter)

It is the command used for making a circle in AutoCAD.



Circle radius(C Enter)

- Select circle from draw panel (or) C Enter
- Specify center point for circle
- Specify radius of circle
- Enter



This allows you to quickly select the types of circles, you want to create a 3points circle, 2points circle, (ttr) tan, tan radius or tan tan tan, by drawing a circle across them.

Center, diameter (C Enter, D Enter)

- Select circle from draw panel (or) C Enter
- Specify center point for circle
- Specify diameter of circle
- Enter

2-point circle (C Enter, 2p Enter)

- Select circle from draw panel (or) C Enter
- Next 2p enter
- Specify first end point of circle
- Specify second end point of circle
- Enter

3-point circle (C Enter, 3p Enter)

- Select circle from draw panel (or) C Enter
- Next 2p enter
- Specify first point on circle
- Specify second point on circle
- Specify third point on circle
- Enter

Tan, tan, radius (C Enter, ttr enter)

- Select circle from draw panel (or) C Enter
- Specify point on object for first tangent of circle
- Specify point on object for second tangent of circle
- Specify radius of circle
- Enter

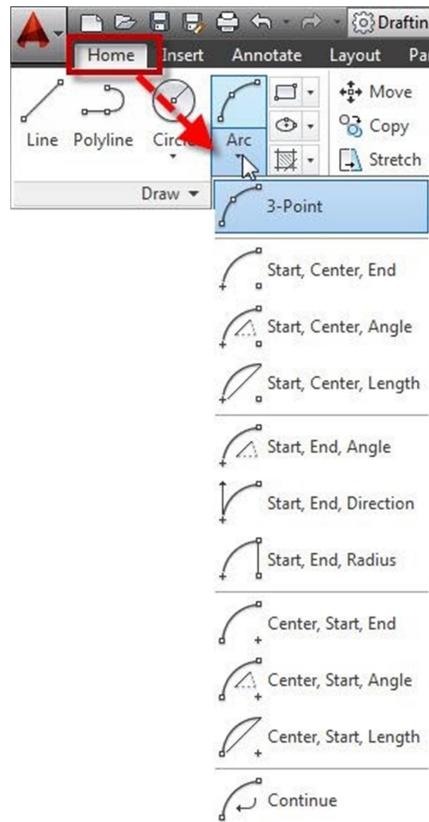
Tan, tan, tan (C Enter, 3p Enter)

- Select circle from draw panel (or) C Enter
- Next 3p enter
- Specify first point on circle
- Specify second point on circle
- Specify third point on circle
- Enter



Arc (A Enter)

As the name suggests, this command can be used to make an arc in AutoCAD.

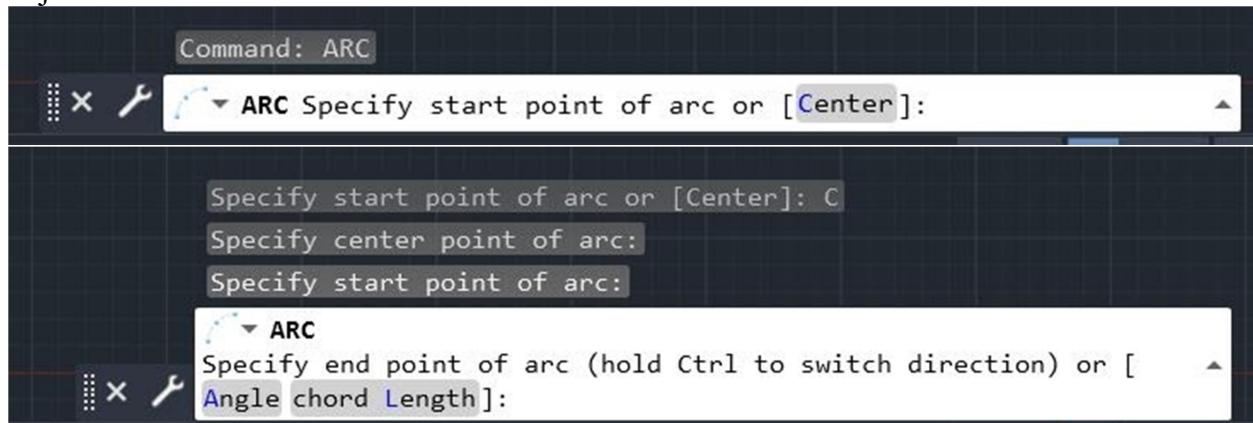


3-Point Arc (A Enter)

- Select arc from draw panel (or) a—Enter
- Next c—enter
- Specify center point of arc Specify start point of arc
- Next A—Enter
- Specify included angle (hold ctrl to switch direction)
- Enter

SOME OF THE SUB OPTIONS OF ARC COMMAND:

This allows you to quickly select the center option for creating angle and chord length objects.



This allows you to quickly select the angle and chord length for creating different objects.



Start, center, end (a enter, c enter, e enter)

- Select arc from draw panel (or) a—Enter
- Next c—enter
- Specify center point of arc
- Specify start point of arc
- Next e—enter
- Specify end point
- Enter

Start, center, angle (a enter, c enter, a enter)

- Select arc from draw panel (or) a—Enter
- Next c—enter
- Specify center point of arc
- Specify start point of arc
- Next A—enter
- Specify included angle(hold control to switch direction)
- Enter

Start, center, length (a enter)

- Select arc from draw plane (or) a—Enter
- Specify start point of arc
- Specify an end point of arc at a particular place
- An arc will be visible
- Enter

Start, end, angle

- Select arc from draw plane (or) a--Enter
- Specify a start point
- Specify an endpoint
- Determine the centre and radius of an arc
- Enter

Start, end, direction

- Select arc from draw plane (or) a--Enter
- Specify a start point
- Specify an endpoint
- Specify the third point (with certain dimensions)
- Enter

Start, end, radius

- Select arc from draw plane (or) a--Enter
- Select a point at a particular place
- Specify second point of an arc or [center/end]
- Specify end point of an arc
- Specify center point of an arc(hold ctrl to switch direction)
- Enter



Center, start, end

- Select arc from draw plane (or) a--Enter
- Select a point at a particular place
- Specify centre point of arc
- Specify **start** point of arc
- Specify end point of arc or (hold ctrl to switch direction)
- Enter

Centre, start, angle

- Select arc from draw plane (or) a--Enter
- Select a point at a particular place
- Specify centre point of arc
- specify start point of arc
- Specify end point of arc or (hold ctrl to switch direction)
- Specify included angle(hold ctrl to switch direction)
- Enter

Center, start, length

- Select arc from draw plane (or) a—Enter
- Select a point at a particular place
- Specify centre point of arc
- specify start point of arc
- Specify end point of arc or (hold ctrl to switch direction)
- Specify length of chord(hold ctrl to switch direction)
- Enter

Continue

- Select arc from draw plane (or) a--Enter
- Specify end point of arc or (hold ctrl to switch direction)
- Enter