MAK112E Computer Aided Technical Drawing AutoCAD – Modifying Commands



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Chamfer command to cut the corner with a given distance. You have to set the Dist1 and Dist2 using d

Command :
Command :
Command:chamfer
(TRIM mode) Current chamfer Dist1 = 10.0000, Dist2 = 10.0000
Polyline/Distance/Angle/Trim/Method/ <select first="" line="">: d</select>
138.1174,5.5432 ,0.0000 [SNAP GRID ORTHO OSNAP MODEL TILE



(TRIM mode) Current chanfer Dist1 = 10.0000, Dist2 = 10.0000 Polyline/Distance/Angle/Trim/Method/(Select first line): d Enter first chanfer distance <10.0000>: 0 Enter second chanfer distance <0.0000>: Consand 272,4388,53,9735,0.0000 SNAP GRID ORTHO OSNAP NODEL TILE



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(TRIM mode) Current chamfer Dist1 = 0.0000, Dist2 = 0.0000 Polyline/Distance/Angle/Trim/Method/<Select first line>: Select second line:

216.3742,98.3193 ,0.0000 SNAP GRID ORTHO OSNAP MODEL TILI

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255,5026,1	154.3350,0.0	0000	SNAP GRID ORT



Changing Properties

Or select Properties command under Modify Pull-Down menu



to finish selection press enter



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To change properties of dimension you have to use **Explode** command, because of the dimension is a block, not a single entity.

At the beginning you have to select an object to explode and hit enter. Selected objects become highlighted with current color (i.e. yellow) and after hitting enter change color to default color (i.e. white).

Command: _explode Select objects: 1 found Select objects:	
Select objects:	4
134.4320,113.0104,0.0000	





You may change the position of the both arrow. To do this use **Move** command. Either typing move or just m or selecting the icon the icon panel.

Mouse arrow change into square. Selected arrow becomes hightlighted.



After selection, give the base point of the object to move. To do this osnap command will be helpful. (i.e. intersection)

Command: Command: _move Select objects: Other corner: 1 found Select objects:
Base point or displacement: _int of
Snaps to the intersection of a line, an arc, or a circle: int



Then you may give the target point (or second point) for moving object. Intersection osnap command is used again to do this task.

Commend: Commend: NOVE Select objects: Other corner: 1 found Select objects: Base point or displacement: __int of Second point of displacement Snaps to the Hemmedian of a line, an arc, or a cick: it

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The Rotate Command

The Rotate command allows you to rotate a drawing object a new orientation in the drawing Under Modify pull-down menu you may find rotate command.

Mo <u>v</u> e	
<u>R</u> otate	
Scale	
Stretc <u>h</u>	
Lengthen	



For an example, the small circle (A) on the pitch circle is rotating with 45°. To rotate the circle A, firstly select it and hit the enter, and then determine the rotation base point (i.e. intersection of the axes) and finally give the rotation angle (i.e. 45)





Command: Command: _rotate Select objects: 1 found Select objects: Base point: _int of <Rotation angle>/Reference: 45 Command:

The Array Command

The Array command B copies an object mutiple times to form a regularly spaced rectangular or polar pattern. Under Modify pull-down menu you may find rotate command.



Array command has two option (rectangular and polar pattern)

Polar pattern

For example the small circle (A) is copied 8 times on the pitch circle with the same rotation angle. To copy the circle A, firstly select it and hit the enter, after selecting the polar pattern option (p for polar), determine the rotation base point (i.e. center of the pitch circle), and then give the number of item (i.e. 8), after giving angle to fill, determine the copied objects will be rotated or not.



Rectangular Pattern

For example the small circle (A) and its axes are copied with the given distances (i.e. 30 and 40). To generate the circle A and the axes, firstly select them and hit the enter to finish selection, after selecting the rectangular pattern option (r for rectangular), determine the number of rows (i.e. 3) and the number of column (i.e. 4), and then enter the distance between the rows (i.e. 30), the distance between the columns (i.e. 40)

