
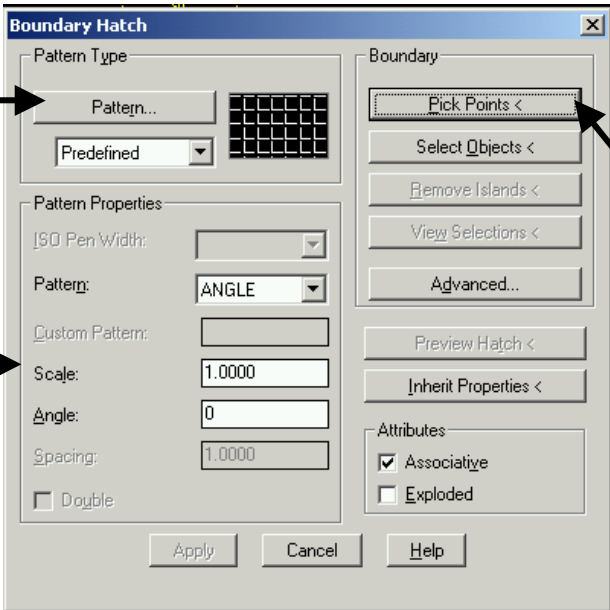


MAK112E Computer Aided Technical Drawing

AutoCAD – Hatching & Tools

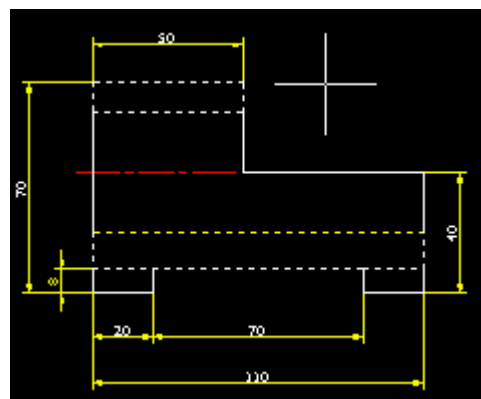
This command is used to show where the materials has been cut. Hatch command  fills an area with a defined pattern.

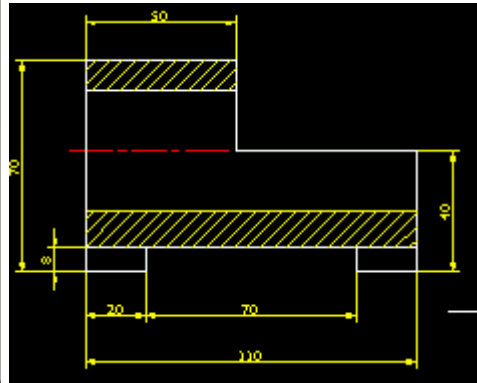
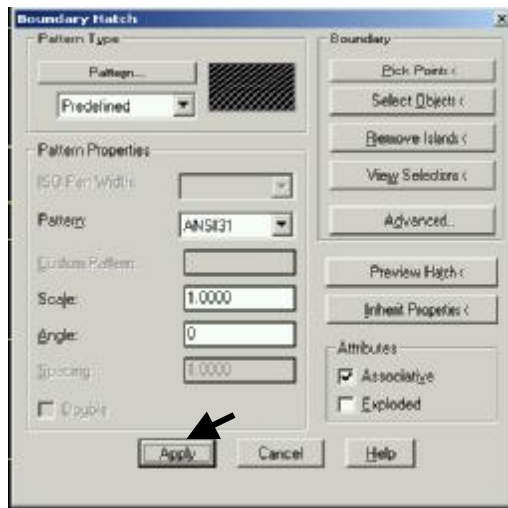


The image shows the 'Boundary Hatch' dialog box in AutoCAD. It is divided into several sections: 'Pattern Type' with a 'Pattern...' button and a 'Predefined' dropdown; 'Pattern Properties' with fields for 'ISO Pen Width', 'Pattern' (set to 'ANGLE'), 'Scale' (1.0000), 'Angle' (0), and 'Spacing' (1.0000); and 'Boundary' with buttons for 'Pick Points <', 'Select Objects <', 'Remove Islands <', 'View Selections <', 'Advanced...', 'Preview Hatch <', and 'Inherit Properties <'. There are also 'Attributes' checkboxes for 'Associative' and 'Exploded'. Annotations with arrows point to the 'Pattern...' button (labeled 'To select the hatch pattern'), the 'Scale' field (labeled 'Scaling the hatch pattern'), the 'Angle' field (labeled 'Set the hatch line inclined angle'), and the 'Pick Points <' button (labeled 'To pick the point which is inside the hatching area').

```
Analyzing the selected data...
Analyzing internal islands...
Select internal point:
Analyzing internal islands...
Select internal point:
```

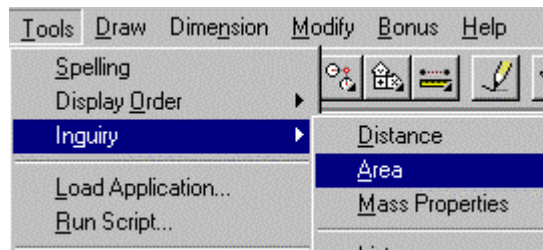
Select point_1 and point_2 then hit the enter



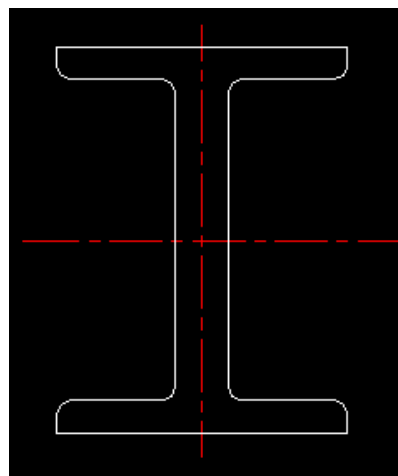


Area Command

The Area command finds areas that you define by picking points to define a boundary, picking a closed object, or adding and subtracting boundaries.



Determining the area of closed object you have to sure that the object was drawn exactly closed shape. As soon as selecting the object you may get the area (i.e. 838.5559)

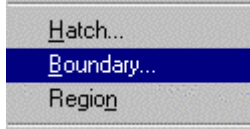


```

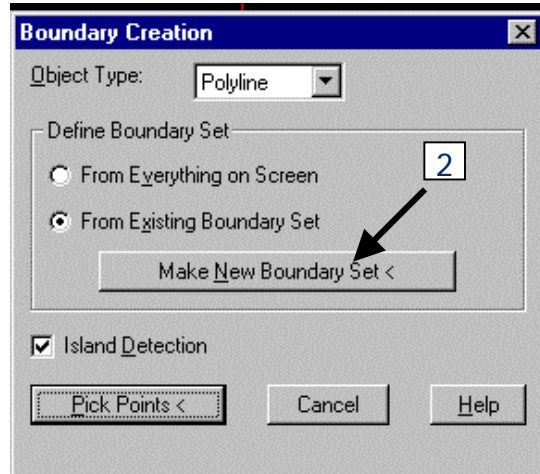
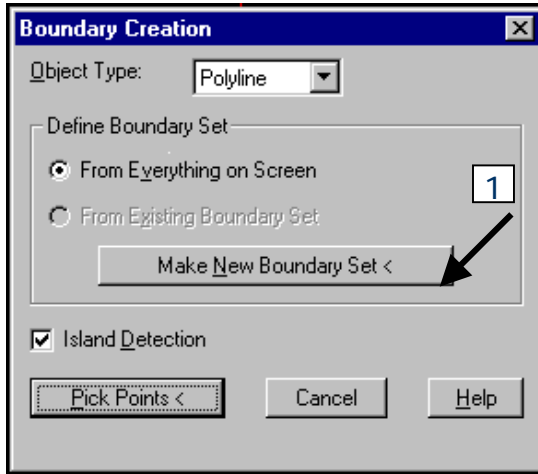
Command: _area
<First point>/Object/Add/Subtract: o
Select objects:
Area = 838.5559, Perimeter = 273.5492
Command: *Cancel*
Command:
  
```

Boundary Command

The Boundary command is used for generating the closed region from the object drawn with single entities. You may get Boundary command under **Draw** pull-down menu.



Using Boundary Creation dialog box, firstly make new boundary set clicking Make New Boundary Set < button (1) and then select the entities using object selection (**crossing or window**), after finishing selection pick the internal point clicking Pick Points < button (2), and then Boundary command creates the closed object and all single entities became a polyline.



```

Command:
BOUNDARY Select objects
Select objects: Other corner: 20 found
Select objects:
Analyzing the selected data...
Select internal point:
Analyzing internal islands...
Select internal point:
BOUNDARY created 1 polyline
Command:
  
```

MAK112E Computer Aided Technical Drawing AutoCAD Tutorials	MAK112E Computer Aided Technical Drawing AutoCAD Tutorials	MAK112E Computer Aided Technical Drawing AutoCAD Tutorials	MAK112E Computer Aided Technical Drawing AutoCAD Tutorials
---	---	---	---

MAK112E Computer Aided Technical Drawing AutoCAD Tutorials	MAK112E Computer Aided Technical Drawing AutoCAD Tutorials	MAK112E Computer Aided Technical Drawing AutoCAD Tutorials	MAK112E Computer Aided Technical Drawing AutoCAD Tutorials
---	---	---	---

MAK112E Computer Aided Technical Drawing AutoCAD Tutorials	MAK112E Computer Aided Technical Drawing AutoCAD Tutorials	MAK112E Computer Aided Technical Drawing AutoCAD Tutorials	MAK112E Computer Aided Technical Drawing AutoCAD Tutorials
---	---	---	---

MAK112E Computer Aided Technical Drawing AutoCAD Tutorials	MAK112E Computer Aided Technical Drawing AutoCAD Tutorials	MAK112E Computer Aided Technical Drawing AutoCAD Tutorials	MAK112E Computer Aided Technical Drawing AutoCAD Tutorials
---	---	---	---

MAK112E Computer Aided Technical Drawing AutoCAD Tutorials	MAK112E Computer Aided Technical Drawing AutoCAD Tutorials	MAK112E Computer Aided Technical Drawing AutoCAD Tutorials	MAK112E Computer Aided Technical Drawing AutoCAD Tutorials
---	---	---	---

MAK112E Computer Aided Technical Drawing AutoCAD Tutorials	MAK112E Computer Aided Technical Drawing AutoCAD Tutorials	MAK112E Computer Aided Technical Drawing AutoCAD Tutorials	MAK112E Computer Aided Technical Drawing AutoCAD Tutorials
---	---	---	---

MAK112E Computer
Aided Technical
Drawing
AutoCAD Tutorials