MMS DESIGN

Survey & Engineering Solutions

Create you own CAD patterns to speed up assembly drawings

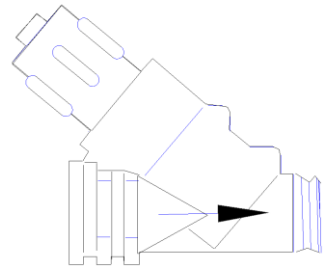
DWG CAD diagram resource (http://www.netafim-usa-landscape.com/Landscape/technical-cad-specs.php)

Background

The ability to draw in a computer aided drafting (CAD) environment is a must for every designer in order to stay competitive. Proper presentation of well thought out designs is almost just as important as the technical expertise of any great designer and plays a big role in winning the clients confidence and subsequently winning the contract. The mere fact that CAD gives you the ability to draw something only once and then referencing that drawing or diagram in again and again is an excellent productivity enhancer. Those of you who have done some drafting in the past knows exactly how time consuming it is to draw assembly diagrams. This feature will teach Model Maker (MM) users how to create patterns for this exact purpose.

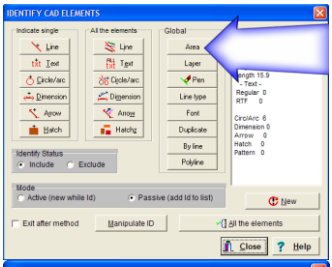
Step 1: Draw pattern using normal CAD

In MM draw any symbol or irrigation component making use of the many CAD functions available. **Make sure you set the plot scale to 1:1000 before you draw**. In this way one meter measured in Model Maker will be equal to one millimetre on plan. **Tip**: if you have drawn patterns in another CAD package you can easily import it into MM and convert it to patterns using this same tutorial.



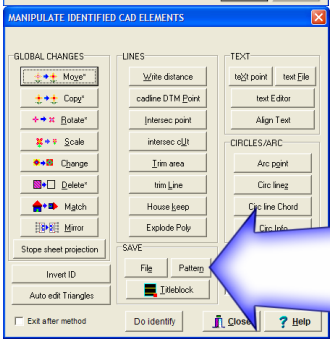
Step 2: ID the drawing

Use CAD> ID> Do_Id > AREA to ID all the CAD from step 1. Be sure to select only the elements of the CAD that must be included in the new pattern.



Step 3: Save a pattern

A. Use CAD>ID>Man-id > Save PATTERN.

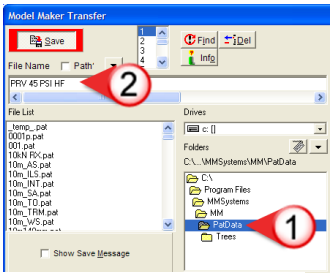


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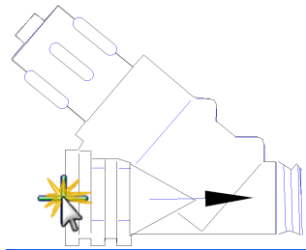
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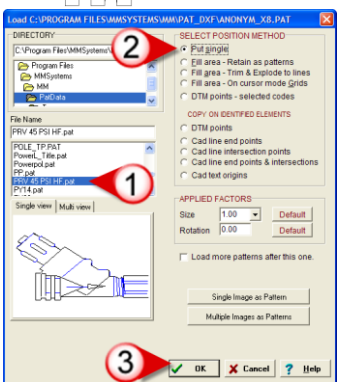
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B. When prompted, save the new pattern in the …MM/PatData folder (1) with an appropriate file name (2) so that you can easily find it again.



C. Indicate an appropriate base point. This base point will be used when you load the pattern again to place it. Typically use a feature e.g. pipe centre point.





Step 4: Load the pattern
After saving the pattern (and any other pattern that you created) you can now simply load a series of patterns to create virtually any configuration that describes your required assembly diagram.
CAD>Pat>Load – Choose the relevant pattern from the PatData folder as in Step 3.B above and position in drawing.

