

WAIKATO SOLIDWORKS USER GROUP MEETING 22 JAN 2002

Edrawings pro

Tried out the new functions included with pro

Move

Measure

Section

Markup

Move looked good for exploding assemblies. You can move components and then save the new configuration

Measure looked accurate enough for basics but it was commented that some trials would be wise before trusting it for manufacture. Operation was similar to Works

Section looked good for checking out internal cavities and was easy to get a result

Markup looked effective for communicating design intent between parties – as it should

***.exe Edrawings pro** have full functionality so you don't need pro loaded on every machine. Great for mark up and red lining

Try out the 15 day trial when you've got time

Discussed drawing composition and how it's easy enough to get models and assemblies but what about composing working drawings? The main point is to have your drawing templates sorted out and that you need to spend time doing this.

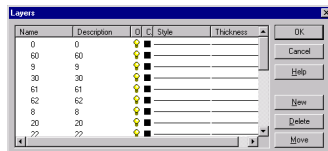
We covered some basics for template settings.

Layers

View

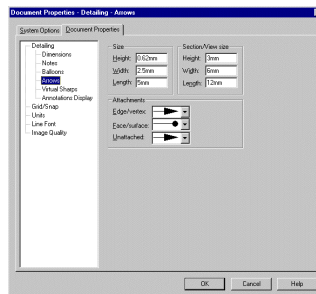
Toolbars

Layer



Use layers as you would in ACAD

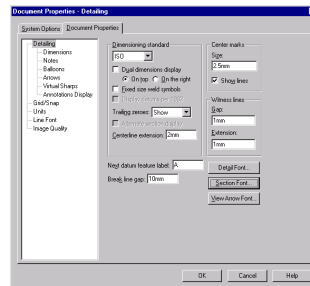
Arrows



Typical dialog box for setting up your standard detailing parameters

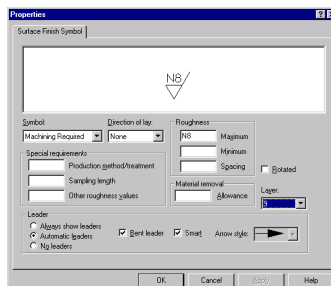
Changing these settings alters the look of arrows as they appear on the drawing

Section plane identifying letters font size



Click on **section font** to bring up the dialog box to change font settings

Discussed annotation **surface finish Font size** and how to change it to be proportional to sheet font size – say 75%. Unless someone can enlighten us otherwise you can't get over it and use the SW default.



There is still a need to follow standard drawing practice (e.g. AS1100) when you communicate your designs for manufacture with drawings. The workshop needs to be able to read and understand them. We may have great models but if the workshop can't understand the drawings, what's the point. To avoid a slagging from the workshop Set up your templates properly and follow standard procedures

If your writing procedures and want to use bit maps of dialog box's as I've done here, hitting **print screen** while in SW will paste a bmp of the entire active SW screen to the clip board that you can then paste into your document.

To get a bmp of a **dialog box**, make that box active then **alt/print** screen chord will capture that dialog box. Makes your documents look professional

Try this mates trick out. You need a part of a bolt or pin and a part of a block with a suitable hole for the pin. Open up a new assembly. Bring in the block and the pin, don't worry where they're placed. That's what this exercise will do

To **mate** the underside of the bolt head or pin concentric with and coincident with the block hole and block top face **select** the edge where the head meets the shaft

Hold down **ctrl** and drag the pin until the curser is somewhere inside the hole and let go The pin should now be placed concentric with the hole and coincident with the top face This is using standard windows commands of drag and drop which should be able to be applied in similar situations

If you're setting up standard parts that will be used in different assemblies set up a **mate reference** in that part. This will make placing it in assemblies a doddle