

Create Template



ATOMS
Precision V2

Templates are used for measurement purpose. Dimensions to be measured are defined in template file and compare with the inspection object. Templates can be created in three ways using:

1. Scanned images.
2. DXF Files
3. Direct Capture from camera.

This tutorial covers all three methods of creating Template.

TEMPLATE FROM SCANNED IMAGE

Click **Start** tab. Click **Import Source base file** from Image source panel. Select **TemplatelImage.jpg** file from tutorials folder.

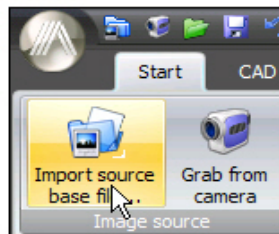


Figure 1

Select optical profile file of the source device (Refer to Calibration Tutorial).

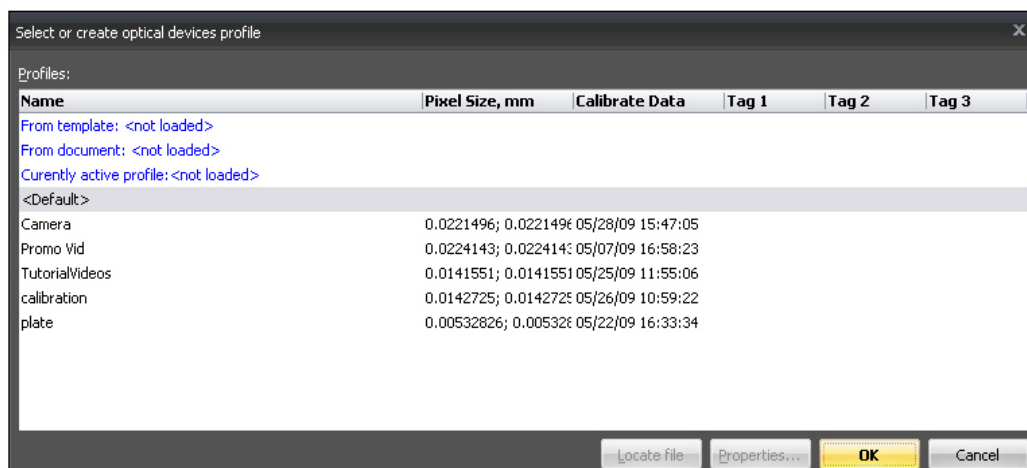


Figure 2

Perform orientation setup (Refer to Orientation Setting Tutorial).

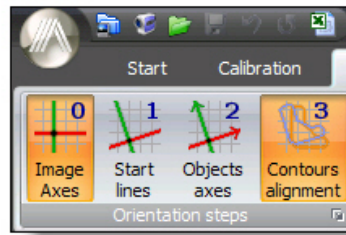


Figure 3

Create necessary Geometry Objects on template contour (Refer to Create measurement Objects Tutorial).

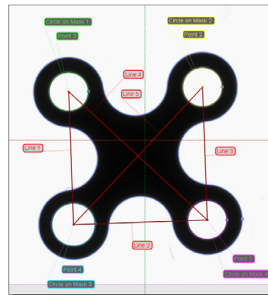


Figure 4

Create measurement objects using geometry objects and contour (Refer to Create Geometry Objects Tutorial).

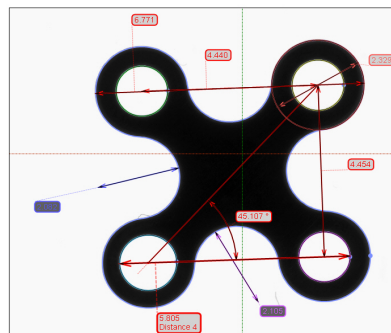


Figure 5

Before saving file as template, Make sure Measurement light is green

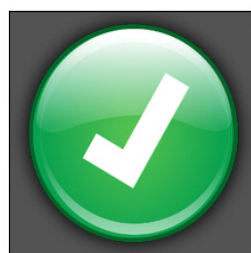


Figure 6

Select **Save As** from **Application** drop down list, and select save in default template folder.

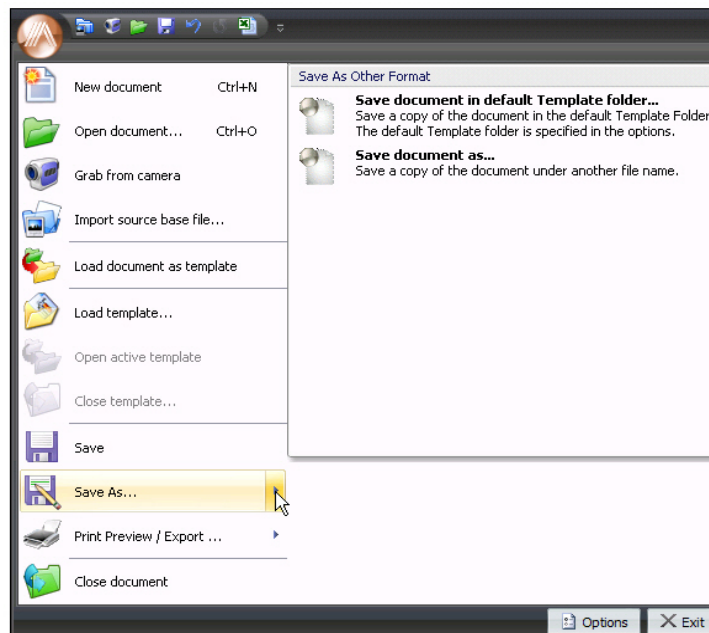


Figure 7

TEMPLATE FROM DXF FILE

Click **Start** tab. Click **Import Source base file** from Image source panel. Select **DXF-Template.dxf** file from tutorials folder.

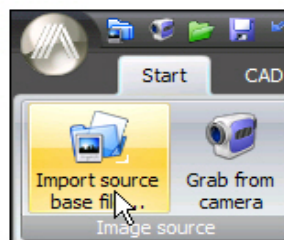


Figure 8

In **CAD Contour** tab, Define **Pixel Size** and contour direction (Refer to Import DXF Tutorial).

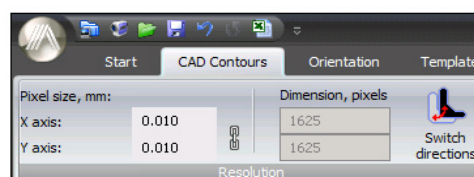


Figure 9

Create necessary Geometry Objects on template contour (Refer to Create measurement Objects Tutorial).

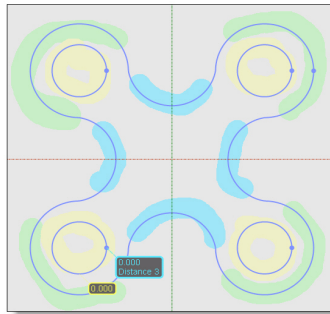


Figure 10

Create measurement objects using geometry objects and contour (Refer to Create Geometry Objects Tutorial).

Measurements							
Name	V...	Current value	V...	Exp...	Left ...	Right ...	Unit
Distance 1		4.454		4.450	-0.100	0.100	mm
Distance 2		4.440		4.400	-0.100	0.100	mm
Distance 4		(4.440; 4.442)		4.400	-0.100	0.100	mm
Distance 5		5.741		5.750	-0.100	0.100	mm
Angle 1		89.836		89.400	-1.000	1.000	°
Angle 2		45.107		45.000	-1.000	1.000	°
Diameter 1		1.297		1.300	-0.100	0.100	mm
Distance 1		(-0.000; 0.000)		0.000	-0.100	0.100	mm
Distance 2		(-0.000; 0.000)		0.000	-0.100	0.100	mm
Distance 3		(-0.000; 0.000)		0.000	-0.300	0.300	mm
FVM 1		4.447		4.450	-0.050	0.050	

Figure 11

Before save file as template, Make sure Measurement light is green



Figure 12

Select **Save As** from Application drop down list, and select save in default template folder.

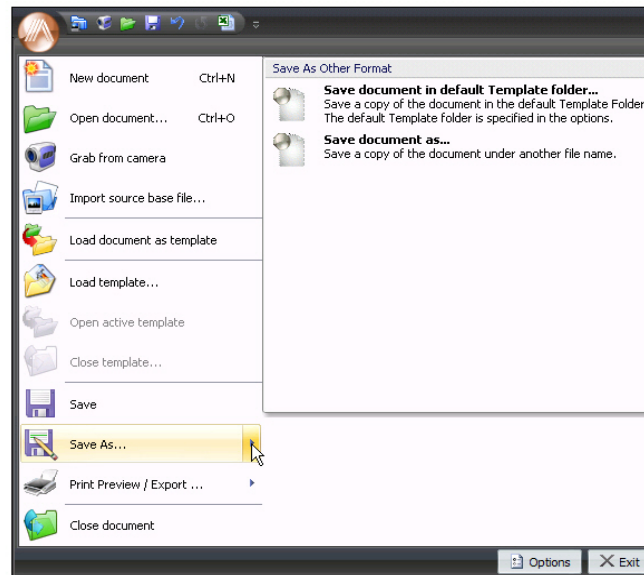


Figure 13

TEMPLATE FROM DIRECT FROM CAMERA CAPTURE

Click **Start** tab. Click **Grab from camera** from Image source panel.

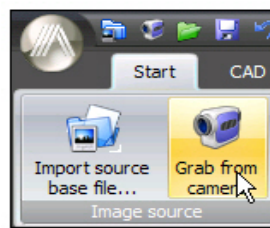


Figure 14

Select optical profile file of the camera device (Refer to Calibration tutorial to know how to create optical profile file for a camera device).

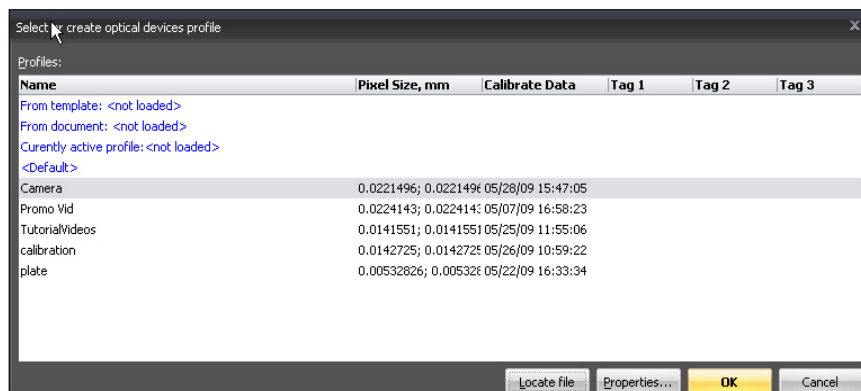


Figure 15

To capture image Select **Still image** and then Select **Grab once** from camera control panel. Or just click on the blinking measurement lights buttons.



Figure 16

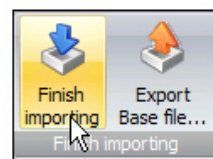


Figure 17

Perform orientation setup (Refer to Orientation Setting Tutorial on how to create orientation set-up).

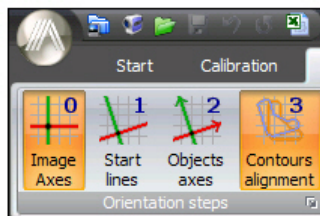


Figure 18

Create necessary Geometry Objects on template contour (Refer to Create measurement Objects Tutorial).

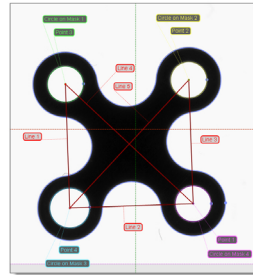


Figure 19

Create measurement objects using geometry objects and contour (Refer to Create Geometry Objects Tutorial).

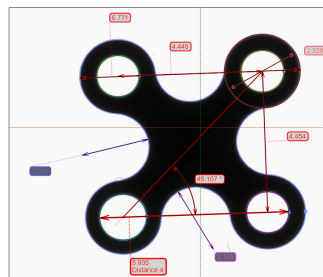


Figure 20

Before save file as template, Make sure Measurement light is green.



Figure 21

Select **Save As** from **Application** drop down list, and select save in default template folder.

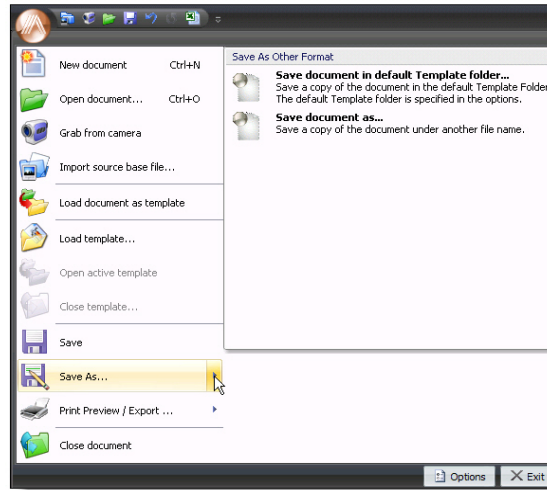


Figure 22

