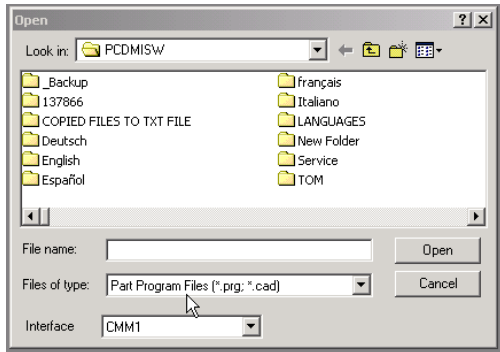


PCDMIS

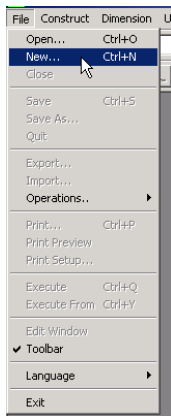
Basic Coordinate System Exercise #1

We are now going to begin creating a plane, line, and line coordinate system. Please view the video file for this exercise and follow through in the book before attempting the exercise.

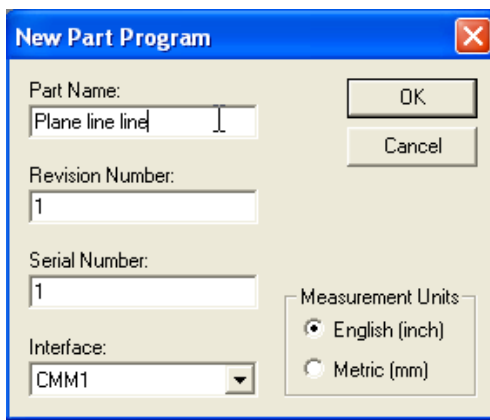
Step 1. Start the software and when the screen to open a program appears, select **Cancel**.



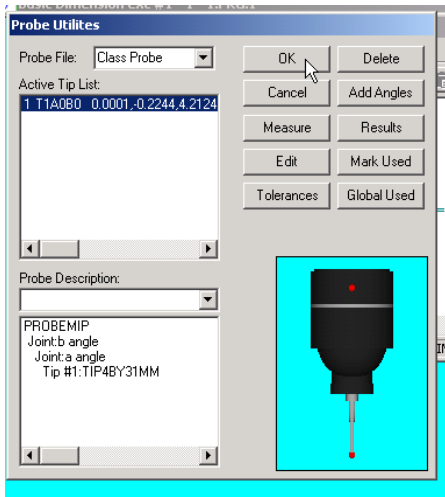
Step 2. From the **File** pull-down select **New**.



Step 3. Fill out screen as shown and select **Ok**.

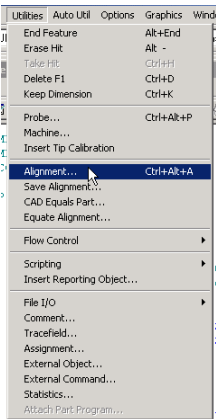


Step 4. Select the probe file called Class Probe that you created in the earlier exercise and click the stylus T1A0B0 and then select *Ok*.

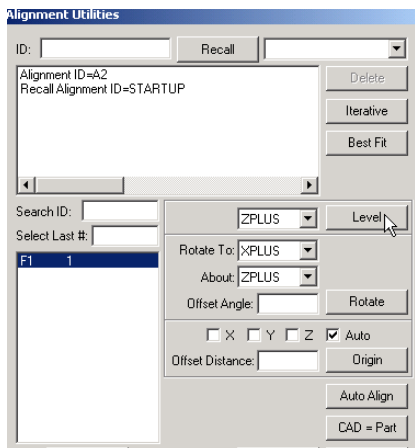


Step 9. Now measure a 3 point plane on the surface of the inspection plate. The plane will appear a different color which is fine. Notice the label of F1, you can modify this if you choose too.

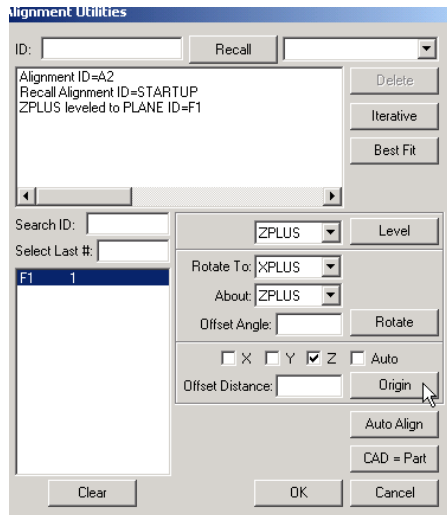
Step 10. From the *Utilities* pull down select *Alignment*.



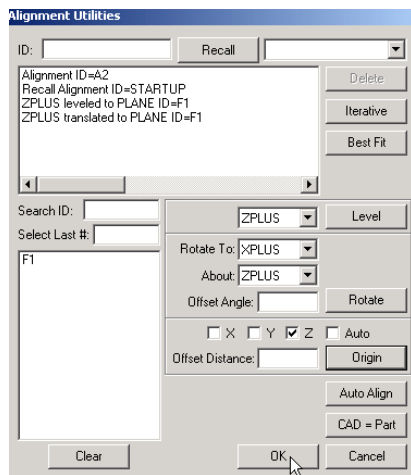
Step 11. Select the feature F1 as shown. Now select the *level* button.



Step 12. Now that you have established the base plane, you need to once again select the feature F1 and then check the Z box and click the **ORIGIN** button.

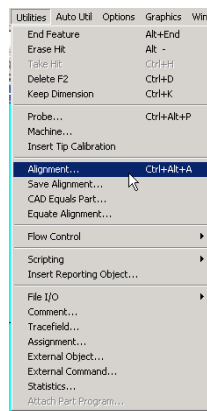


Step 13. Check the code and then select OK.

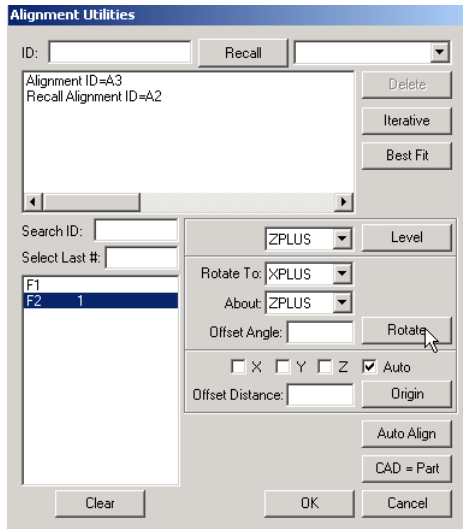


Step 14. Now measure a line across the front of part. It should be Line 1 on the training template.

Step 15. From the **Utilities** pull down select **Alignment**.

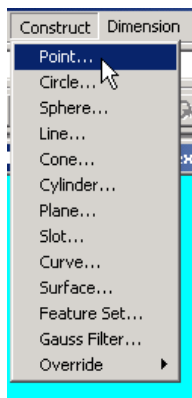


Step 16. Select the line you measured and then select *rotate*. Once finished select **OK** at the bottom.

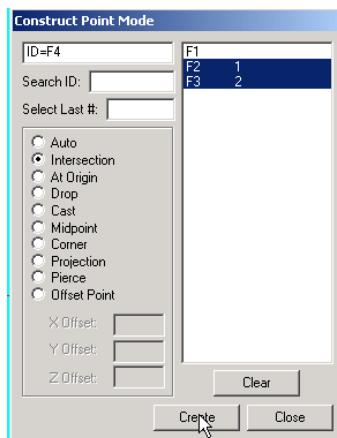


Step 17. Now measure a line on the left side of the part from the front of the machine towards the back. This should be line 2 on the training template.

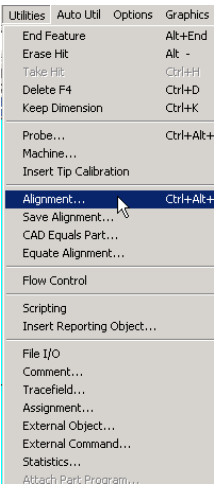
Step 18. From the *Construct* pull down select *Point*.



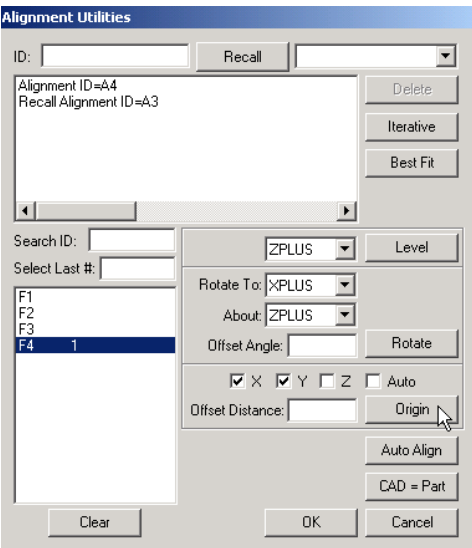
Step 19. Highlight the two lines you measured and then check the *“Intersection”* button, once finished select the *Create* button and then close the window.



Step 20. From the *Utilities* pull down select *Alignment*.



Step 21. We are going to make the intersection point we created the origin of the part. Highlight the point and fill out the check boxes for X and Y. Click the *Origin* button and then close the window by clicking *OK*.



Now you have establish the X,Y and Z zero point at the corner of the part. The alignment is finished and we can start measuring the part.