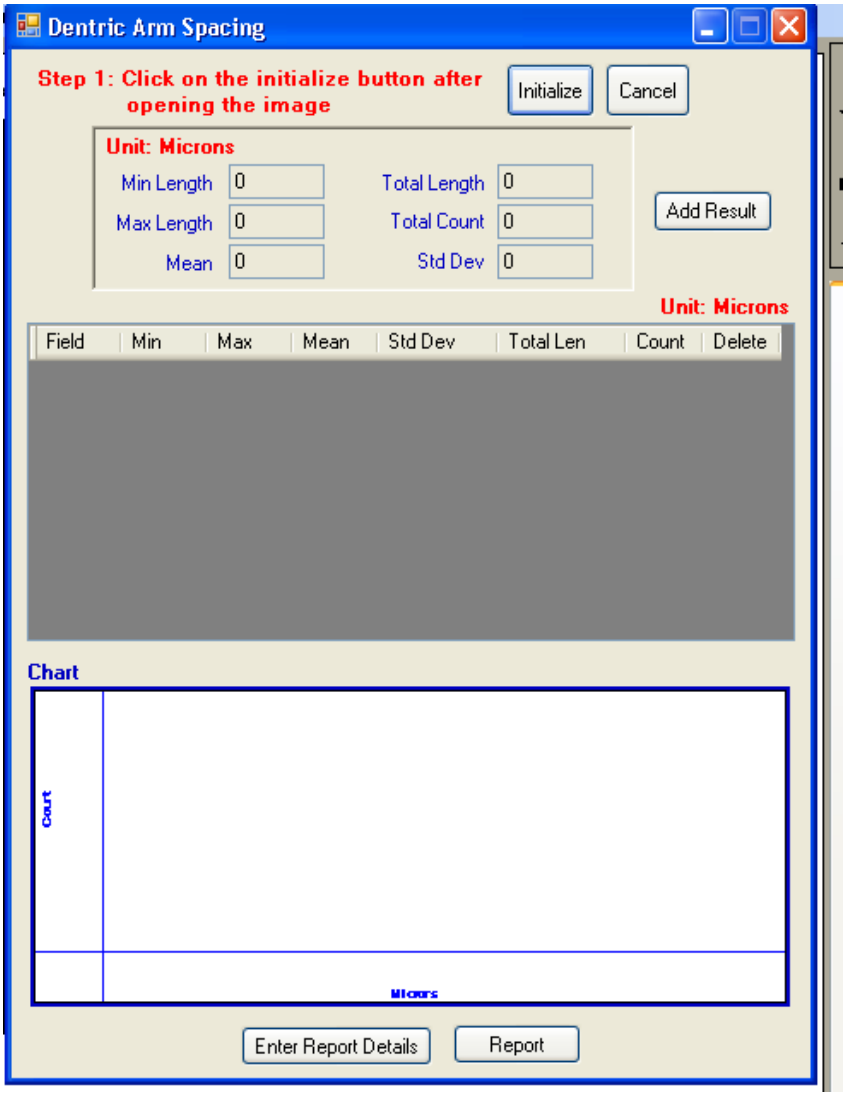
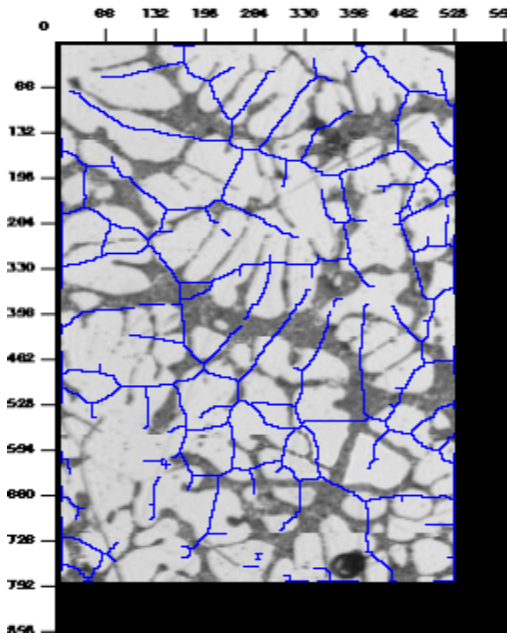
Dentritic Arm Spacing

This method is for measuring the Dentritic arm spacing of Aluminum. This method can be accessed through “Measurements Dentritic Arm Spacing”. The window for this method will be as shown below. You can measure multiple samples and add result of each specimen to the final result for report generation.



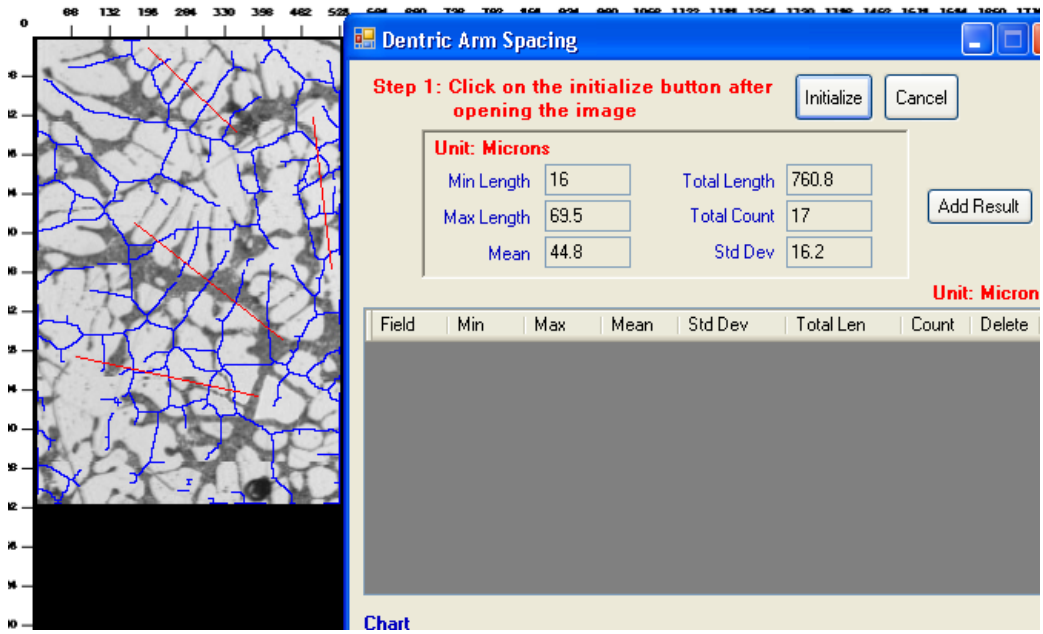
The steps for Dentritic arm spacing are explained below.

- Open the image
- Select Dentritic Arm Spacing from “Measurements . Dentritic Arm Spacing”
- Click Initialize button
- This will create cell structure on the specimen image with cell boundaries in blue color as shown below

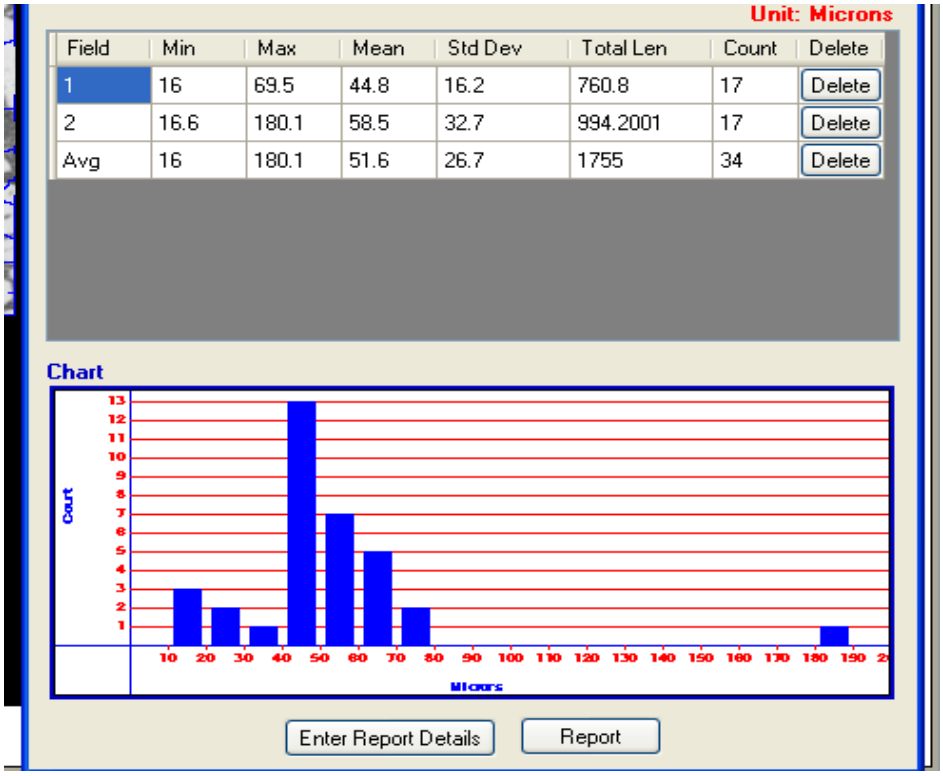


- Draw lines between cell boundaries crossing multiple cell boundaries. For drawing line, click on start position and click on end position. You DO NOT need to select the Line button option in the main window. The lines drawn will be in red color

- As you draw more lines, the result will be updated in the text boxes for minimum length between cell boundaries, maximum length between cell boundaries, total length, average length and standard deviation. These values will be updated for each line drawn on the image. A sample image is shown below.



- Draw multiple lines at different places, each spreading across multiple cell boundaries. The result window will be updated with cumulative result
- Click Add Result to add the result to final list
- To measure for another sample, click Clear button in main window an open another image and repeat same process.
- Final result for all specimens selected will be as shown below. You can see here the graphical chart that shows the distribution – Count vs Length (microns)



- You can generate report by clicking the “Report” button. The report will be generated with images in the format selected in the System Configuration