X Section

3D Virtual Cross Section & Analysis system



XACT has recognised that its customers are manufacturing an increasing number of smaller lots in progressively shorter lead times – and that each of those lots requires multiple physical microsections to demonstrate both in-house registration capability and provide customer quality control release. The cost and time is a widely recognised burden to our industry.

XACT's award winning X-section takes an innovative, engineering-led approach to simplify and improve registration visualisation and, importantly to significantly reduce the need for physical microsections. By taking data from existing non-destructive process and measurement systems within the plant, X-section is able to recreate a virtual interactive layer-by-layer view of the critical internal areas of the production panel. This view allows the fabricator to readily visualise registration problems and improvement effort within a complex panel. Moreover, the system allows the user to create Virtual 3D Cross Sections at a chosen position on the panel: reducing or eliminating wasteful physical microsections.

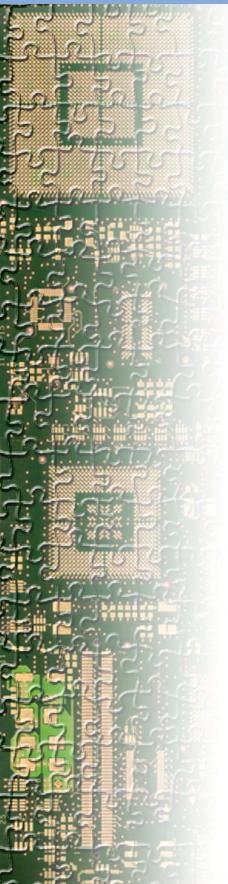






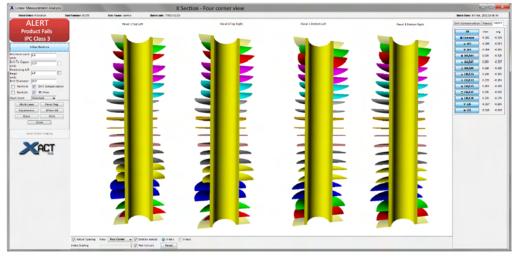
X Section

3D Virtual Cross Section & Analysis system



Unlike traditional microsections, X-Section is able to show registration at multiple positions on every production panel, and in addition can show a virtual cross section at any angle across the hole. Utilising layer and drill program specific tolerance data imported from the CAM system, an advanced feature of the system is that it can calculate the angle and position at which worst-case registration occurs, thereby ensuring that a reduced number of physical microsections can capture the true registration performance of the panel and so ensure accurate QC release.

The section angle selection tool allows the user to rotate the angle of section and display the remaining land/clearance at each side of the drilled hole for every layer. In addition, there is a clear indication against each layer showing if the layer registration conforms to IPC class 2 and IPC class 3.



Section across:

- o Every Panel
- o Any angle
- o Automatic measurement of remaining land
- o Display IPC Class

This new simple to use tool allows the exploration of true panel registration in a fully interactive 360 degree viewing environment.