

Release Notes GC-PowerStation v15.3

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New Features

Adaptive Etch Compensation

A new function has been added to add etching to signal layers in a more intelligent manner. The Adaptive Etch Compensation function adds etch compensation proportionally to traces based on the spacing to the next adjacent trace. As can be seen in the image below, the etch has been added disproportionately to the trace in order to retain required spacing while maximizing trace swelling for manufacture.

The function provides the ability to add the compensation traces to a new layer in order to provide easy modification of the results and also only works on selected data, allowing selective etching of some traces and not others.

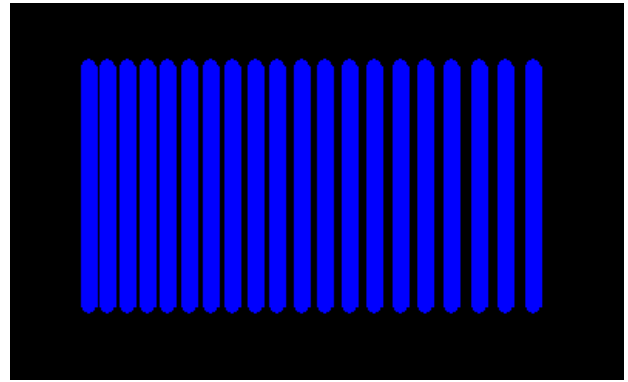


Identify Copper

The Identify Copper function has been overhauled to provide a more robust algorithm for identifying and highlighting areas of copper pour and planes within a layer.

Step Graduation

This function creates a step and repeat pattern with a graduating step distance based on an initial step distance plus an incrementing distance. An example of the resulting graduating pattern is shown below.



Aspect and Area Ratio report templates

A new folder is now created during installation called 'Reports' which contains default report templates. These template files can be modified to change the reports generated for Aspect and Area ratio.

Round Corners on additional functions

Rounding corners for modified apertures has been added to Roundie Pads and also to Pad Split.

Items Fixed since v15.2

This list is customer reported issues fixed for this release.

- #401 Expanded the number of allowable Physical layers to 256 in order to accommodate ODB++ files containing empty layers.
- #398 Unprocessed pads now correctly displayed when User and Absolute Zero locations are different.
- #393 Fixed a longstanding issue that occurred during Data Creation. The issue prevented the direction of arcs being toggled.
- #391 Issue causing a crash during the Copper Balance function has been fixed.
- #389 Datamatrix image now correctly orientated to allow all readers to interpret.
- #388 Fixed an issue causing a crash of the software during PADS ASCII input.
- #387 Now correctly displaying features from PADS ASCII input due to poorly formatted output.
- #384 Added a quick method of selecting Unprocessed pads within the Integrated Stencil Creation function. Buttons added for Select All and Select Highlighted.
- #123 Scrollbars now correctly behave within the graphics window.
- #122 Resolved an issue with a crash caused by a user-created toolbar within all products.
- #105 Fixed an issue that gave an unwarranted warning when changing rotation for a part within the Integrated Part Creation function.
- #102 Similar issue to #76. Aperture list conversion failed. The issue was caused by upgrading to a newer development environment.
- #92 Resolved problem whereby GC-Prevue failed to close correctly, leaving an open instance in the Task Manager.
- #76 Importing aperture list using Aperture List Assistant previously caused crash. Issue fixed.
- #67 Fixed issue related to isolation of polygon pattern.
- #64 Isolation bug fixed.