

# Release Notes GC-PowerStation v9.1

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## **Enhanced Features**

### **Blind and Buried Drill Editor**

The Blind and Buried Drill Editor has been updated to more clearly allow the assignment of drill layers. The Editor dialog window now expands to show the entire grid whenever possible (if the grid is too large to display on the screen, the window is maximized). A "Print" button has been added to the bottom button row. This function allows the user to select an available printer and layout, and then prints the grid to a single page on the device. The grid is scaled to fit the dimensions of a single page. The job name and date/time of printing are printed at the top of the page.

### **Auto interpretation of Rounded Rectangle customs**

If a custom fits the criteria for a rounded rectangle, the user is asked if they would like to convert this and other customs to rounded rectangles when possible. Any apertures converted are logged to the import log for user review. The code uses a contour comparison between the custom's outline and the outline of a rounded rectangle whose corner radius is determined from an examination of the vectors in the contoured outline of the custom. Note that this code does not currently recognize rounded rectangles with off-angle rotations.

### **PCB Build layer setting**

Activated the "Facing Up," "Facing Down," set of radio controls in the physical layer property page in order.

### **On Line Help**

GraphiCode is in the process of putting all help information onto our website to allow faster and more accurate updating, easier access and reduced product size. Function information is available to all users but additional information is only available to customers with a valid Annual Support Plan. There will be a period of overlap where the Help files are still shipped with the product but all future Help information will be placed on the website.

## Items Fixed since v8.4.2

This list is customer reported issues fixed for this release.

- #4340 Added GC-Basic support for on-the-fly DFM fixing.
- #4325 Simplified the handling of complex DPF apertures during output in order to all the reading of these apertures by Genesis software.
- #4320 Streamlined the explosion of complex custom apertures in order to reduce the number of layers generated. This problem appeared to be specific to one CAD system's gerber files.
- #4312 Improved the isolation of rounded rectangles to minimize the number of segments produced in the isolation path and therefore improve the speed of laser stencil cutting machines.
- #4303 Loosened the import parameter settings to handle both lower case and upper case aperture macro parameters in RS-274-X where the specification does not explicitly define the format.
- #4282 Modified the Gerber export code to generate the simplest data construction when exporting custom apertures to RS-274-X data.
- #4279 Updated the text contained in the Help About dialog.
- #4277 Added code to auto-recognize, whenever possible, custom and complex shapes in RS-274X data that represent a rounded rectangle shape. When such a shape is found it is automatically converted to a GraphiCode rounded rectangle aperture rather than a custom aperture.
- #4249 Enhanced the Blind and Buried drill interface.