

# Release Notes GC-PowerStation v17.1

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## **New Features**

### **Jump to Arc Center**

This new function is part of the Jump suite of tools and, as you expected will jump the crosshair to the center of the nearest selected arc. The function is accessed via the right click pop-up menu under the Jump... entry and has been given the default shortcut key Shift+J.

The function would be useful in finding the center of a round board or in determining the center of one arc in order to create additional data using the same location.

### **Attribute removal during Merge Job**

An option has been added to the Tools > Customize > Options tab to allow attributes to be removed during the Merge Job process. Attributes were being taken into account when determining if traces and pads were unique during the Merge process. This led to excessive time being taken to Merge large datasets together. This user controlled option allows faster merging without affecting the resulting image. Default behavior is to behave as the current release (maintain attributes).

### **Added numerous Plugin functions**

A number of plugin functions have been added to enhance the customization of the product. Details can be found within the Intellisense for the plugin.

## Items Fixed since v16.4

This list is customer reported issues fixed for this release.

#514 Area Ratio and Aspect Ratio check report did not include Rounded and Chamfered Rectangles due to formatting of intermediate information. Issue has been resolved.

#512 Aperture List Corruption led to intermittent crashes of the software with very large dataset. Issue fixed.

#509 Handled the situation of an ODB++ using different units for Component information compared to the Layer information.

#508 Added Venting and Thieving functionality into the Plugin.

#507 Fixed an issue that caused an application crash when Create Teardrops utilized the SnowBall method of teardrop creation.

#505 Heel and Toe edits have now been expanded to include rounded rectangles and oblongs. Previous versions only worked on Rectangle apertures.

#504 The Create C Pad function, when applied to Rounded Rectangles and oblongs now creates the wedge in the pads based on the extents of the original pad. Previously rounded corners were ignored and so the wedge was being created incorrectly.

#494 A new function called Jump to Arc Center has been implemented (see above for more details).

#493 Previously, users running on the fly DFM fixes on a number of violations saw the list order change after the modification was performed. This led users to question whether the fix had taken place (it had). The list of violations is now static during DFM fixing.

#492 Updated the Tool Compensation function to retain initial Database order of entities after the Tool Compensation algorithm has completed.

#489 An option has been added to the Integrated Stencil Creation function to allow scanning of the solderpaste library patterns through any angle and not simply the four orthogonal directions.

#488 A bug causing incorrect pad shapes to be generated when off-angle pads were run through the Create C Pads function has been fixed.

#487 Updated the new feature from last release (Round Corners) to apply to custom apertures.

#486 No Tool Compensation on the first and last points of a routing path are applied if the Use Codes option is used.

#485 Drill Drawing Creation function can now generate the table based on a user defined order. The dialog can be sorted by clicking on a column to sort the resulting drill table order.

#483 The support file that is generated via the Generate Support File function is now written and saved to the User account rather than within the Program Files

directory. The software was required to in Administrator mode for the old approach to work.

#464 Fix to file recognition code to correctly recognize DipTrace Gerber and GerberX2 files.

#440 Update to the Gerber X2 import to consistently handle missing operation codes after G36 commands as D02.

#417 The Auto Pad Adjustment function has been enhanced to allow the pad width to be reduced to half pitch plus or minus a user specified amount. Note a positive value in the additional adjustment will further reduce the pad width.

#403 Importing an HPGL file into an existing GWK will now be loaded with a unique aperture list so that drawn features are not using existing apertures.