In an era of downsizing, consolidation, and outsourcing, the CAM system you choose is more important than ever. The last things you need in your design flow are revision spins, cost over-runs, and reductions in your product’s time-to-market due to manufacturing issues. Purchase price is only a part of the ROI equation. Implementation costs in both time and manpower, not to mention ongoing maintenance costs, can keep ROI at arm’s length indefinitely.

The solution is: GerbTool. Don’t be fooled by the name; GerbTool is not just a Gerber viewer. It is a full-featured, CAM software solution, capable of handling the toughest jobs for a lot less money than the competition. Below are just a few of the features you can expect to find within GerbTool.

**Feature Highlights:**

- **Import Wizard** that loads ALL industry formats (Gerber, Drill, Mill, HPGL, DXF, and more...).
- **Intelligent Data Transfer** with ODB++, ODB++ (X), and IPC-2581 included in select bundles.
- **Database Navigator** provides quick and easy access to all necessary information without the need for menus or toolbars.
- **IPC-D-356/A Netlist** information can be displayed graphically and aligned like other layers.
- **HyperNETLIST Extraction** can generate netlist information for even the largest of designs in a matter of minutes.

- **Dynamic DFM Analysis Suite** provides 75+ checks that cover Design Information, Design Rules Checks, Manufacturing Rules Checks, Design for Fabrication, and Embedded Passives (optional). Dynamic checklist environment allows for single-pass analysis of an entire design.
- **True graphical Netlist Comparison.** HyperNETLIST Comparison includes Pin-Point Error feature to quickly locate your Shorts and Opens.
- **Advanced Panelization (optional)** makes quick work of even the toughest tooling processes. Step **multiple** designs with ease. Powerful Venting, Thieving, and Robber Bars are included.

GerbTool can provide you with fast ROI by helping to eliminate those costly revision spins, improve your time-to-market, and increase your overall design quality before your data has even left your hands. Come and take a closer look at the many features that GerbTool has to offer, and see how it can refine your Design and Manufacturing process flow today. Contact a sales representative and they will guide you in selecting the appropriate GerbTool bundle to suit your needs and budget.

For more details, and to download a trial license that can demonstrate GerbTool’s effectiveness on your own data, visit the GerbTool Web site today at [http://www.gerbtool.com](http://www.gerbtool.com).

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www.wssi.com 800.786.5800
Basic Features:

Single file, 32-bit "intelligent" database structure
High Speed Graphics
999 Layers
9999 Apertures
Integrated Printing
Polynet Scan Fill (Polyfill, PolyRect, PolyArea)
Compositing (Pos & Neg Merging, Paint & Scratch, see also Object Polarity under Advanced Features)
Import Wizard (Detects Gerber, Drill, Mill, HPGL, DXF, and other Formats, Converts Aperture Tables and Reads Automatical)
Automatic Aperture and NC Tool List Converter (Rules Based, Supports Any System)
HPGL, HPGL2 Import
Gerber 274D and 274X Import
MAD AutoPlot Import (Fire9XXX, Cymbolic Sciences)
Barco DPF Import
NC Data Import (Supports Excellon, Sieb & Meyer)
DXF Import
HPGL, HPGL2 Export
Gerber 274D and 274X Export
MAD AutoPlot Export (Fire9XXX, Csemblyc Sciences)
Barco DPF Export
NC Data Export (Supports Excellon, Sieb & Meyer)
DXF Export
ODF++ Import and Export (Object Definition Format, Object Definition Format)
OffSpring Import and Export (Support for IPC-2581)
PostScript Export
Bitmap Out (Windows BMP, Black and White, Color, up to 1000dpi)
IPC D-350 Export
IPC D-356 Export
Embedded Passive Analysis (Passive Alignment, Bar Overlap, Bar Extension, Bar Width, Passive-to-Copper, Passive-to-Drill)
Information Features:

Query Data (Objects, D-codes, Nets, Net Length, User Data)
Measure Data (Point-to-Point, Center-to-Center, Edge-to-Edge)
Reports (Apertures, Drill, Mill)
Redline Notes (Document Changes, Problems, and More)
Dimensioning (Create Fabrication Drawings, Document Board Size, and More)
Drawing (Draw Charts, Balloon Notes, and More)
Analysis Features:

Browse Errors Directly from Navigator (Quickly Step Through Violations, Repair, and Check-off)
Copper Area Calculation (Fast and Accurate)
Graphical Find Duplicates (Quickly Locate and Remove Duplicate Data Objects, such as Flashes, Draws, and More)
Graphical Layer Compare (Compare Any Two Layers, Quickly and Accurately, Browse Differences Through the Navigator)
Design Info (Quickly Check Min. Air Gap, Min. Trace Width, Number of Conductive Layers, Number of Drill Hits, and More)
DRC w/AutoCorrect (Track-to-Track, Track-to-Pad, Pac-to-Pad, Min. Track, Min. Pad, Board Edge, and More)
Graphical Netlist Comparison (Shorts, Opens, No Copper for Net, No External Net for Copper. Errors are Highlighted Using Navigator)
Pin-Point Netlist Errors (Quickly Locates Short and Open Errors from Netlist Comparison Results and Highlights the Location)
DRAF/DFM Support for Flashed, Resist Silvers, Copper Silvers, Starved & Isolated Thermals, Solder Mask Silvers & Bridges, Pin Holes, Registration, and More
Embedded Passive Analysis (Passive Alignment, Bar Overlap, Bar Extension, Bar Width, Passive-to-Copper, Passive-to-Drill)
Macro Scripting Features:

Powerful Macro Developer (Drag-and-Drop Capabilities and More)
Load, Run, and Record (Support for Start-Up, Shut-Down, and On-Load Macros)
Support for "Nested" Macros (Embed Macros within Macros)
Integrated Debugger (Watch Points, Steps, Step-Thru, and More)
Advanced Features:

Database Navigator (Allows Quick and Easy Access to Layers, Apertures, Nets, and More)
Custom Aperture Editor (Build Special Pads, Logos, and More)
Object Level Polarity (Work with Pos & Neg Data on the Fly, Eliminate the Need for Composites)
Layer Sets (Define Layer Sets for Blind & Buried Vias and MCM Stack-Up)
Interactive Data Grouping (Group Objects Together for Fast and Easy Editing)
HyperNETLIST Extraction (Supports SMT, Thru-Hole, Blind & Buried, and MCM)
Interactive Draw-to-Flash Conversion (See Automatic Draw-to-Flash Below)
Draw-to-Custom Conversion (Convert Drawn Graphics into a Custom Aperature)
Raster-to-Vector Conversion (Convert Raster Fill Polylines to Vector Fill for Older Plotters)
Silkscreen Clipping (Cuts Silkscreen Away From Pads)
Composite-to-Layer (Flattens Any Composite Down to a Single Positive Layer)
Pad Removal (Isolated or Redundant)
Tear-Dropping (True-Shape and Snoman)
Layer Spread (Tie All Layers to Single Sheet of Film)
Layer Scaling
Merge Multiple PCB Files
Automatic Gerber to Flash Conversion (Convert Gerber Files to Flash Files, and More)
Basic Panelization (Step and Repeat Your Data Fast)
Intelligent Step & Repeat Codes (Gerber and NC Data)
Stencil Enhancement (Quickly Enhance Generic Paste Stencils with IPC-7525 Shape Definitions)
Automatic Paste Mask Generation and Optimization
Advanced Paste Mask Generation and Optimization
NC-Drill Editing (Create, Add, Edit, Sort, Multiple Tool Tables, Advanced Mfg Features, and More)
Advanced Panelization (Step Multiple, GTD Files, Full Venting/Thieving, Robber Bars, and More)
Versioning (Keep Track of Changes)
Panelize Multiple Data-sets (Using Advanced Panelization)
NC-Mill Editing (Create, Add, Edit, Sort, Multiple Tool Tables, User-Defined Tab and Advanced Mfg Features and More)
Advanced Interfaces:

DirectCAM Import (Support for CAMSO From Version 8.X)
PADS ASCII Import (Support for PowerPCB)
Note: Features and bundles are subject to change without notice.