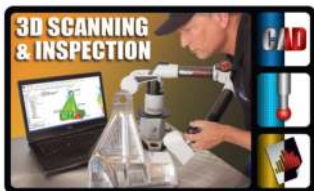# Application Suites

Unique Configurations to Fit Any 3D Metrology Application or Budget

Verisurf empowers manufacturers with 3D measurement solutions that assure product quality, reduce waste, and improve business profitability. Composed of integrated metrology modules offered in unique combinations, or suites— Verisurf is ideally suited to the most common manufacturing challenges.

Measure anything; rapid align/inspect/report workflow, get nominal dimensions from imported CAD; easy to expand as needs grow, cost-effective.

✔ Fastest device-to-part alignment
✔ Inspect to blueprints or CAD
✔ Read any CAD file
✔ Use any CMM or tracker
✔ Automate inspection plans
✔ Import, annotate, edit GD&T

Do it better! Compare probe or scan data from any source to CAD. Best fit to reduce scrap and rework. Create stunning, customized color reports.

✔ Compare pointclouds to CAD
✔ Compare meshes to CAD
✔ Measure any feature type
✔ Granular best fit control
✔ Automatic probe compensation
✔ One-click alignment, analysis, report

Offline version available

Slash inspection plan setup from hours to minutes with almost no learning curve. Do it on any fixed CMM in an intuitive, click-and-build visual interface.

✔ Run Verisurf on any CNC CMM
✔ Create new plan while another runs
✔ Preview path/probe motion
✔ Drag-and-drop interface
✔ Programming skills not required
✔ Re-use plans on any device

Offline version available

Verify design compliance faster. Position subassemblies precisely by comparing to nominal CAD. Set details in seconds with real-time feedback right on the shop floor.
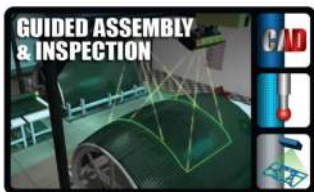
✔ Real-time 3D deviation display
✔ Intuitive, graphical BUILD arrow
✔ Fast detail alignment
✔ Ideal for plumb and level
✔ Rapid assembly to nominal CAD
✔ Easy scribe/trim line positioning

Create solid CAD models starting from any physical part in record time. A unique product designed exclusively for pointcloud to 3D, solid CAD model workflows.
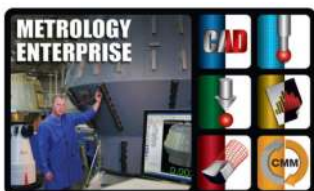
✔ Fast part-to-CAD model process
✔ Import, scan/measure, and mesh
✔ Extensive pointcloud editing
✔ Precise alignment tools
✔ Robust, integrated CAD modeler
✔ Advanced Power Surface tool

Offline version available

Eliminate costly and awkward hard tooling. Transition from CAD to laser-projection guided assembly in minutes. View projection program changes live on your tooling.

✔ Easy, non-contact detail positioning
✔ Projection programs from CAD
✔ Full CAD modeling capability
✔ Highlight non-visible features
✔ Use all popular laser projectors
✔ Import CATIA composite ply data

All of Verisurf's capabilities integrated into a single, easy-to-learn and use experience that gives operators the capacity to execute any conceivable metrology workflow.
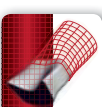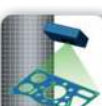
✔ Ideal for job shop flexibility needs
✔ Easy import/export to/from CAD
✔ Multiple levels of automation
✔ Use any measuring device
✔ Import CAD data from any source
✔ Includes all Verisurf capabilities

VERISURF®
Application Suites

	Inspection	3D Scanning and Inspection	Offline Inspection	CMM Programming and Inspection	Offline CMM Programming	Tool Building and Inspection	3D Scanning and Reverse Engineering	Offline Reverse Engineering	Guided Assembly and Inspection	Metrology Enterprise
CAD *(required for all configurations)* • Read any proprietary or universal CAD file type • Import, create, and edit associative MBD (GD&T) • Interrogate CAD model for dimensions • Create and edit solid CAD models • Use any portable or stationary measuring device	●	●	●	●	●	●	●	●	●	●
MEASURE • Measure any type of geometry feature • Guided, graphical device/part/model alignment • Create stunning reports in multiple formats • Instantly analyze and display surface deviations • Learn mode builds inspection plans while measuring	●	●		●		●	●		●	●
ANALYSIS • Analyze deviations of pointclouds and meshes to CAD • One click alignment, deviation analysis, and report creation • Automatic probe radius compensation • Best fit points and pointclouds to surfaces and holes • Embed annotated, full-color plots in reports		●	●							●
AUTOMATE • No programming! Build plans for CMMs graphically • Automatic CAD feature recognition when constructing plans • Display probe paths and simulate motion before running • Simple, form based parametric control of probe movement • Use saved inspection plans on any measurement device				●	●					●
BUILD • Position objects in 3D using live graphical feedback • Position or adjust object to assigned tolerance values • Build arrow shows direction and distance to nominal • Use with gravity-based devices to plumb and level objects • Position scribe and trim lines on complex surfaces easily						●				●
REVERSE • Create manufacturable CAD models from physical parts • Build mesh surfaces and solid models • Easily align multiple, scanned pointcloud objects • Create CAD geometry from pointcloud or mesh cross sections • Fully automated CAD surfacing from pointclouds and meshes							●	●		●
PROJECT • Position objects using all common laser projection devices • Import CATIA composite ply data to create projection programs • Replace or eliminate hard tooling and templates • Program and edit layouts on the fly to see effects immediately • Reveal features not visible on projection surface									●	

Contact your Verisurf account representative to learn more about special configurations to fit unique needs.