Analyze Points to any CAD Model. Verisurf Analysis quickly and efficiently analyzes part tolerance by comparing measured points to nominal features in a CAD model.

Use *Analysis* in combination with Verisurf *Measure* to obtain immediate feedback on manufactured parts, or to import measured points from any source for offline analysis.

In addition to analyzing tolerance, Verisurf *Analysis* validates CAD models by analyzing points sampled from the source model. Simple, color-coded results clearly show compliance between models.

Best-fit for Better Conformance
Verisurf *Analysis* features a powerful, flexible and fully-controllable 6-DOF best-fit to find the optimal tolerance condition for a set of measurements.
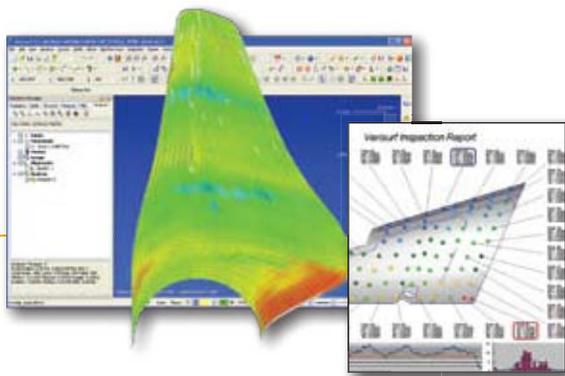
Use this versatile alignment tool to orient data sets – and the measurement device – to the CAD model even in the absence of datum features. Best-fitting can also reduce scrap by revealing the intolerance condition of parts that would otherwise be rejected based on an incorrect part alignment.

Advanced Analysis Tools
Verisurf *Analysis* provides an intuitive and efficient way to analyze inspection data and examine, compare and report deviation results.

Flexible Report Formats
Verisurf *Analysis* includes a complete set of pre-defined templates to create detailed graphical reports, which are indispensable for the inspection of complex 3D surfaces.

Advanced CAD/CAM-based Reverse Engineering. Verisurf Reverse is a complete Reverse Engineering (RE) solution.

Verisurf *Reverse* provides the tools necessary for a complete scan-to-part workflow. Its single and multi-patch surface routines provide an ideal solution for surfacing tasks. Use *Reverse AutoSurface* for rapid surfacing of complex, intricately shaped parts.
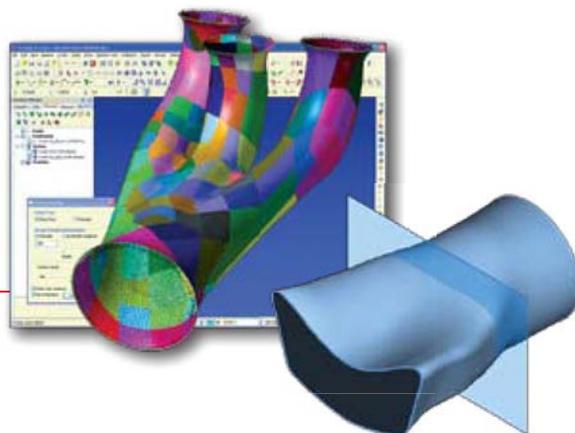
Smooth, Accurate Surfaces From Dense or Sparse Data Sets

With Verisurf *Reverse*, engineers can quickly create surfaces from sparse data sets. You can also manage and reverse-design clouds with millions of points into a mesh or surface-model that can be used directly for manufacturing, inspection or tool building.

Verisurf *Reverse* offers today's most advanced and powerful CAD/CAM software tools for processing 3D scan data into usable manufacturing models. It brings state-of-the-art technology to the RE process by utilizing direct measurements of a physical part or artifact to produce an accurate, replica 3D CAD model.

Re-engineering to CAD
With *Reverse,* users can Best-Fit points to create lines, circles, slots, ellipses, splines, planes, spheres, cylinders, cones, free-form surfaces, and more. *Reverse* also creates meshes from pointclouds in the form of an STL file for surface analysis or tooling and machining.