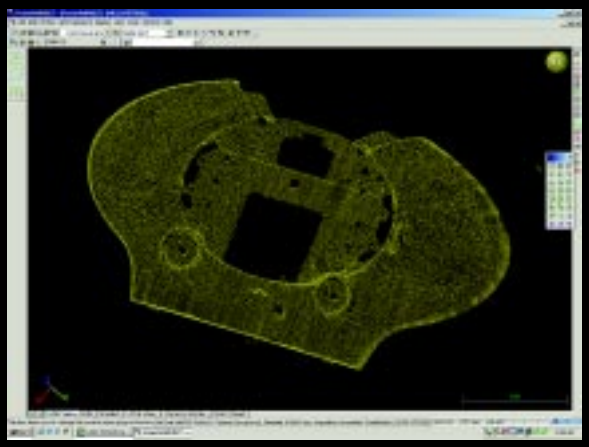
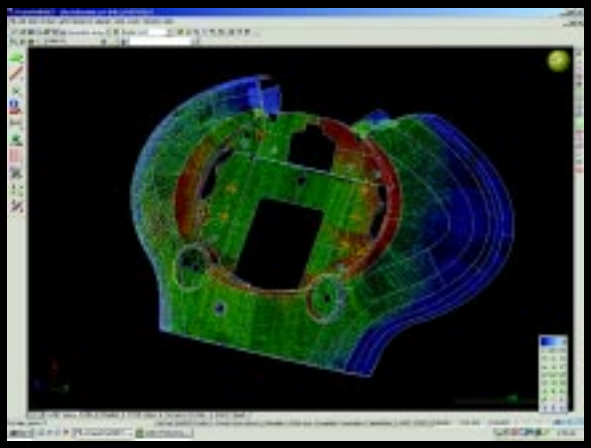
Laser Scanning Inspection

ROMER CimCore introduces a new era in part inspection with the world's first *Real-Time* Laser Scanning Inspection system, allowing inspection of parts with or without CAD models using a laser scanning probe to collect data.

ROMER CimCore coordinate measuring machines bring all the benefits of articulating arm measurement to laser scanning, allowing access to those difficult-to-reach locations on the inside, topside and underside of the work-piece.



PowerINSPECT creates point-cloud files that can be used in reverse engineering



"Weathermap" shows points above, below or in tolerance, enabling at-a-glance real-time analysis

The Laser Scanning Inspection system is comprised of a ROMER CimCore six- or seven-axis portable CMM, a Perceptron ScanWorks Contour laser scanning probe, and PowerINSPECT inspection software, a full-featured geometric and surface inspection software package - all in one affordable, turnkey package!

Provides *Real-Time* surface inspection by comparing each point scanned with the laser probe to a CAD model in real-time. The system collects and analyzes more than 23,000 points per second for far more detailed inspection of both geometric and surface features than would be practical with a convention hard probe. A color gradient graphic indicates whether the points are in tolerance, above tolerance or below tolerance and instantly produces a color "weather map" of the points on the screen.

Provides *Real-Time* geometric inspection by enabling scanning of features including circles, slots, square slots, rectangles, planes, spheres and cylinders in real-time at more than 23,000 points per second for fast, accurate and easy measurement. Much faster than hard probing, it gives you thousands of points to define a feature with precision!

Non-contact laser scanning avoids marring of sensitive surfaces or deflection of thin and/or soft materials. The system can be used to generate point clouds for reverse-engineering. This, coupled with geometric inspection ability, provides users with the ultimate in real-time scanning - all the data for reverse-engineering plus detailed geometric entities for exacting precision.

Data collected can be used for more detailed off-line analysis and reporting via a wide range of editing options. Simplifies data management by combining laser scan data with original CAD data, the sequence of operations, and inspection reports in a single file. The point-cloud file is saved for output to CAD applications in a variety of formats.

Real-time inspection saves you money by enabling rapid identification of errors, allowing quick correction.

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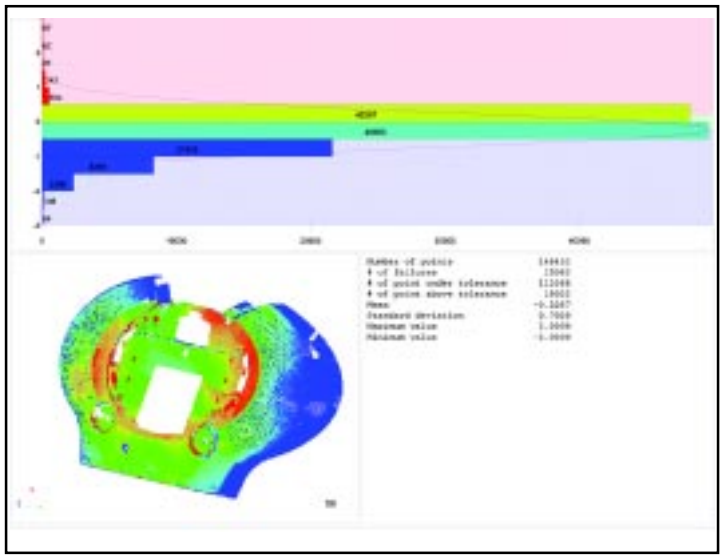
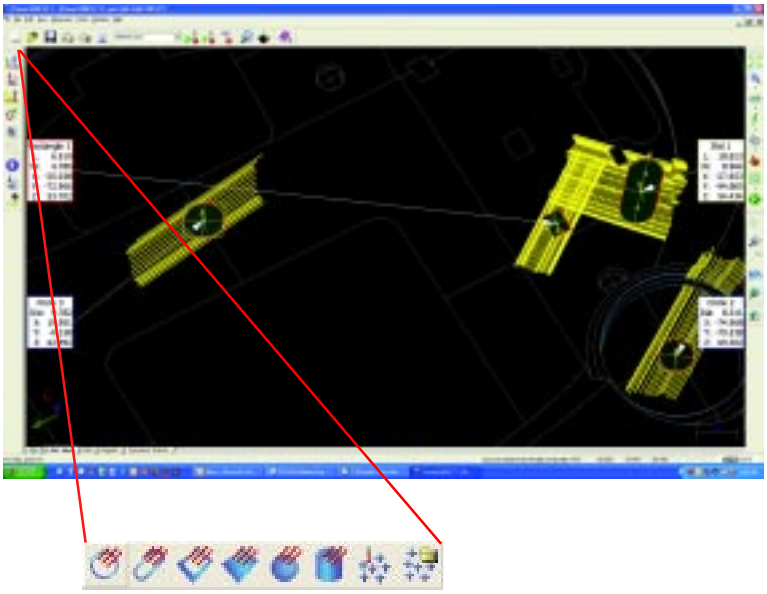
Geometric and surface inspection, automatic feature recognition and point-cloud generation are all accomplished in the same powerful software / hardware solution!



Color-coded "weathermap" report displays results



Geometric inspection is a snap thanks to a convenient toolbar and powerful scanning capabilities.

Typical Configuration Includes:

- INFINITE 2.8 m (9 ft.) seven axes portable CMM with integrated counterbalance, battery and Wi-Fi wireless interface, pistol grip, and combination seventh axis camera / hard probe wrist assembly; WinRDS software; travel case; HighRES reverse-engineering software; documentation; magnetic base; point tip, 6 mm ruby, and 15 mm ball probes with carbon fiber shafts; NIST-traceable calibrated length standard; one-year warranty.
- PowerINSPECT Software Package with translators, one year free upgrades, and three days training for two persons at a ROMER certified training facility.
- Laptop computer with 1024 MB RAM, 64 MB 3D video, NVIDIA graphics, WinXP, MS Office XP Pro.
- Laser probe system with laser probe, portable electronics box, calibration sphere with magnetic base, controller arm sync cable, ethernet cable and one-year warranty.
- PowerINSPECT Point-Cloud for Laser Scanning software with software upgrades for one year and one day of training for two people at a ROMER certified training facility.

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