

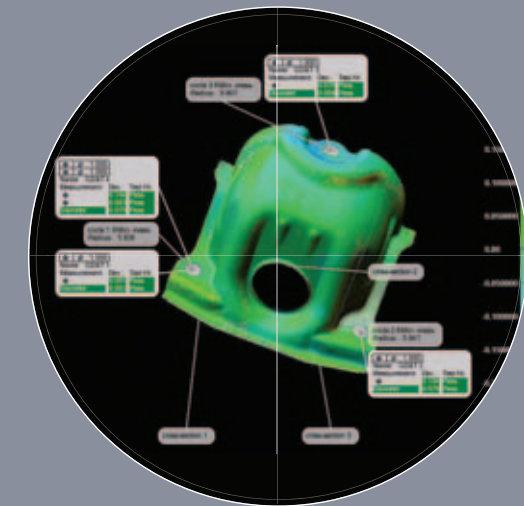
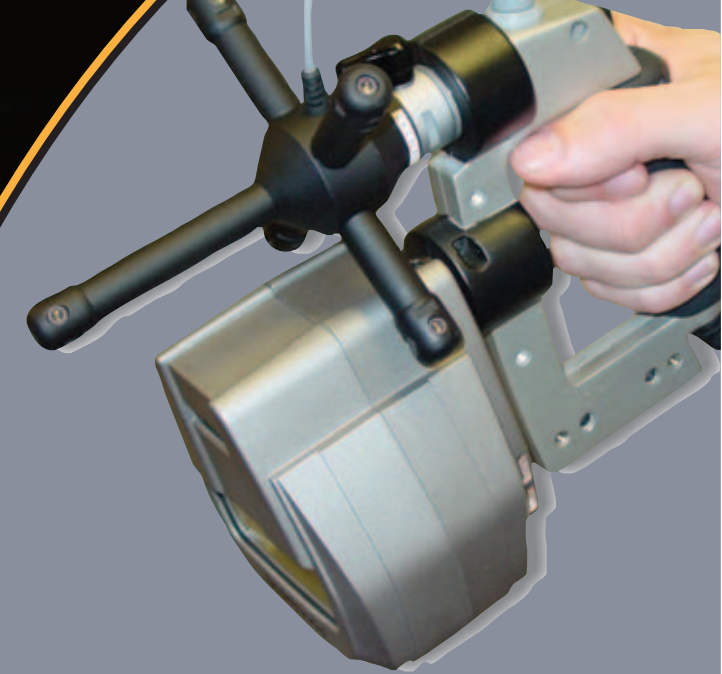


...adding a new dimension to laser scanning



Handheld Laser Scanner

6DOF Non-contact



LASER SCANNING

- Produce robust 3D data with the ScanTRAK handheld laser scanner, incorporating the Perceptron V5 sensor
- Conveniently sweep ScanTRAK across surfaces to capture dense point-cloud measurements that define part geometry
- Measure holes, slots, cylinders, spheres, corners, and many other features in formed parts
- Quickly scan complex surface details, measure soft materials, and digitally archive precious artifacts
- Use scan data to clean up, modify, and reconstruct surfaces to fully define part geometry in various CAD/CAM environments



ARMLESS • BEAMLESS

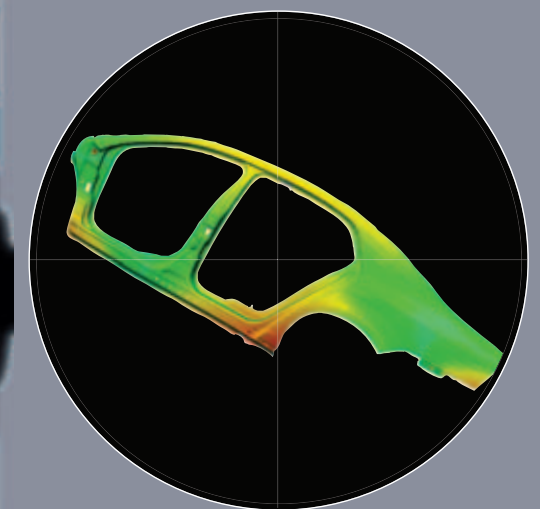
Take non-contact, point-cloud measurement to a higher level with the ScanTRAK advanced laser scanning solution for inspection and reverse engineering. Quickly bring physical parts into the digital domain with a handheld scanner that combines the instant tracking performance of optical metrology with the high-speed power of non-contact surface scanning. NDI's Optical Tracker and Multi-Sided Probe (MSP) provide unmatched range of handheld motion. Operators are free to orient the ScanTRAK scanner in all six degrees of freedom (6DOF) without worrying about beam breaks or mechanical restrictions, dramatically improving productivity.

Now you can focus on the important task at hand instead of on the technology you are using. Conduct freeform scanning in minutes instead of hours by eliminating unnecessary part preparation with a solution that does not require powder or paint. The system's large measurement volume eliminates the need for time-consuming photogrammetry mapping required for merging multiple data patches into a single 3D point cloud. The Optical Tracker continuously measures the MSP's location in real-time, reporting all scanned data in a common frame of reference.

With a single setup, this field-proven solution allows operators to selectively scan specific areas from multiple angles of approach, ensuring efficient part coverage. When combined with NDI's advanced Dynamic Referencing technology, the system is insensitive to vibration and measurement drift, ensuring the highest shop-floor accuracy. ScanTRAK is a powerful fusion of leading technologies that provides true walkabout functionality, total control, and absolute ease-of-use.

OPTICAL TRACKER

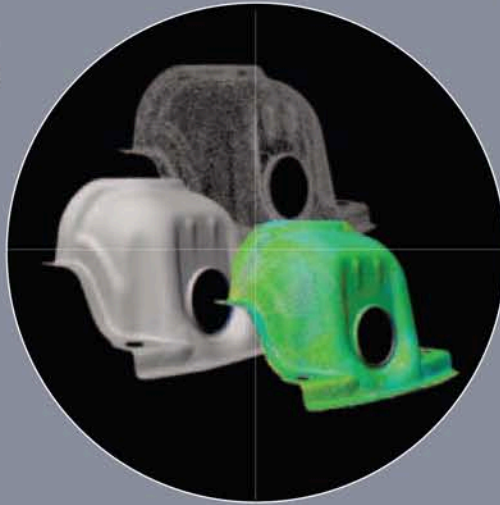
- Portable design and rapid setup bring you to the part to solve problems faster
- Small footprint, instant tracking and adjustable orientation enable use in confined spaces
- Laser indicator shows the extents of the measurement volume for quick and precise positioning
- Large measurement volume reduces the need for multiple setups
- Temperature compensation reduces measurement error, ensuring ideal performance under various conditions
- Dynamic Referencing capability provides greater shop-floor accuracy



APPLICATIONS

The ScanTRAK advanced handheld laser scanning solution is ideal for any task that requires rapid and non-contact digitization of physical parts.

- Point-cloud generation
- Part-to-CAD inspection
- 3D visualization and modeling
- Rapid prototyping
- Reverse engineering
- Precious artifact archiving



For over a quarter century, companies have trusted NDI as the pioneer in advanced optical metrology. With offices, dealers, and thousands of measurement systems deployed worldwide, the NDI name is synonymous with providing the right solution for the right job. NDI's new generation of portable metrology solutions has set a new benchmark for system accuracy, usability, and flexibility. If the need arises, our highly regarded customer support services will keep you up and running. As the world leader in innovative measurement technology, NDI has the knowledge and experience to provide the focused solutions and services you need.



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