

# NDI SCANTRAK

## NDI ScanTRAK™

Take non-contact, point-cloud measurement to a higher level with laser scanning systems powered by NDI's advanced optical tracker.

Quickly bring physical parts into the digital domain with handheld laser scanners which combine instant tracking performance with high-speed, non-contact surface scanning.

### KEY FEATURES

- Instant tracking technology
- Compact and lightweight scanner
- Large measurement volume
- Integrated touch probing
- Dynamic referencing

### KEY BENEFITS

- Exceptional ease of use for higher measurement throughput
- Perform walkabout scanning without beam-breaks, mechanical linkages or photogrammetry targets
- Use your preferred data collection program - all major point-cloud software applications are supported
- Conduct free form scanning of difficult geometries from multiple angles of approach
- Reduce operator fatigue with ergonomic and lightweight scanner designs
- Use the system's large measurement volume to scan large parts in one set up
- Measure difficult surfaces without powder or spray, including shiny black
- Measure accurately in unstable environments with Dynamic Referencing (near stamping presses, forklifts, vibrating machinery, etc).



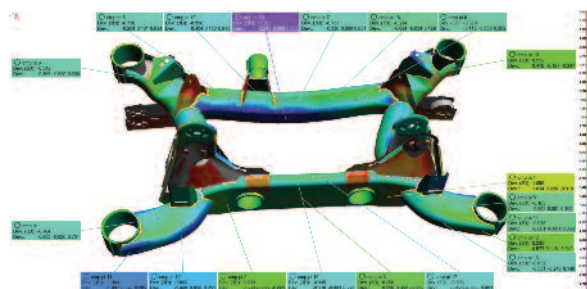
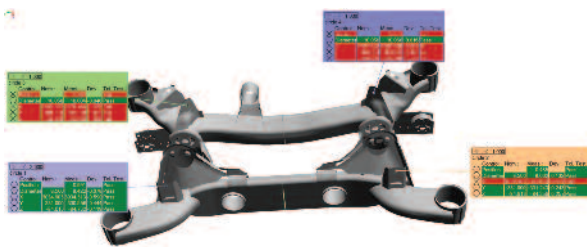


## The NDI Optotrak Scanner

The Optotrak Scanner is ideal for large volume non-contact scanning. By bringing the machine to the part rather than the part to the machine, problems can be quickly solved at source.

The operator simply waves the laser probe over the surface of the object and the software automatically compares the measured surface to the nominal CAD design data. Geometry and advanced GD&T functions can be extracted directly from scan data and transferred into the inspection report.

Furthermore, NDI's unique dynamic referencing system takes any shop floor vibration or movement in the part relative to the measuring device out of the equation. In fact the system is so versatile it can even measure parts on the move.



### SPECIFICATIONS

#### ScanTRAK Specifications

Dimensions	205 mm x 225 mm x 105 mm
Weight (without cable)	900 g

#### Perceptron V5 ScanWorks Sensor Specifications

Profile density	7640 points/line
Update frequency	Up to 60 Hz
Scan rate	458400 points/second
Mean point to point resolution	0.0137 mm
Stand-off	100 mm
Depth of field	110 mm
Near field width	93 mm
Mid field width	105 mm
Far field width	140 mm
Measurement accuracy	0.0240 mm 2σ corner test
Feature resolution	0.0045 mm 2σ sphere test
Sensor feature repeatability	0.0050 mm 2σ sphere test
Safety	Class 2M, 660 nm laser
Certifications	UL, CSA, CE
Environmental	10°C to 40°C
Protection	Sensor IP64 / Enclosure IP31