



# TouchDMIS

One Touch Measurement

Metrology Software  
at Your Fingertips



# TouchDMIS

## Metrology Software Designed for the User

TouchDMIS is a fully functional metrology software suite that makes measurement easy and simple. It is available for portable, manual and CNC coordinate measuring machines, at a fraction of the cost of traditional metrology software packages.

Developed to provide maximum productivity for both novice and expert users, TouchDMIS requires just a few hours of training and offers an incredibly short learning curve. The software can be operated entirely via touchscreen, using intuitive touch, swipe and gesture commands.

### TouchDMIS - the new benchmark in CMM usability.



### Applications

- Inspection
- Reverse Engineering
- Part Archiving
- Rapid Prototyping
- Engineering Analysis

### Built on Standards

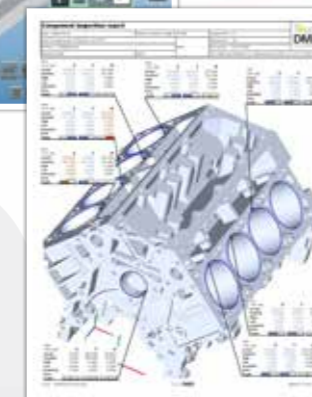
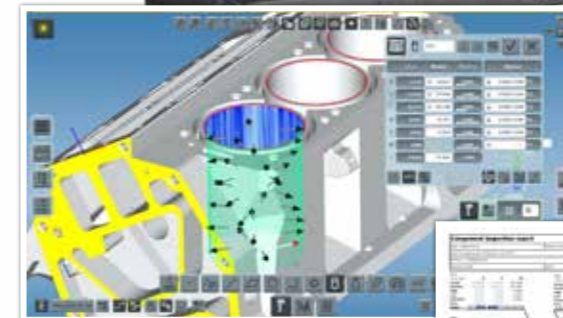
TouchDMIS metrology software is built on 64bit architecture and embraces all of the metrology standards developed over the past decade:

- DMIS Programming Language - ISO 22093
- Tolerancing - ISO 2768
- CAD File Import/Export STEP - ISO 10303
- I++ DME Communication Protocol

# Touch2PROGRAM

## Intelligent Work-flow

TouchDMIS incorporates floating tool bars to maximize your active screen. Its core functionality is accessed by eight large buttons that step you through the programming and measurement process. The simple interface displays only the options required for the task you are performing, so you no longer have to search for options through stacked tool bars, drop-down menus and "right-clicks."



### 1. Import CAD

STEP and IGES file formats are supported as standard and native geometry within TouchDMIS. All major CAD systems can also be imported, as an option.

### 2. Define Alignment

The full range of coordinate system alignment options is available, including RPS and traditional 3-2-1 alignments.

### 3. Program Measurement Plan

The part program is displayed as colored iconized program blocks. Each block is defined by a Feature Icon, Action Icon, Feature Label and Statement.

### 4. Perform Measurement

Launch the measurement process and follow it on the graphical display. Feature status is indicated immediately.

For toleranced features, TouchDMIS displays actual vs. tolerance results.

### 5. Create Reports

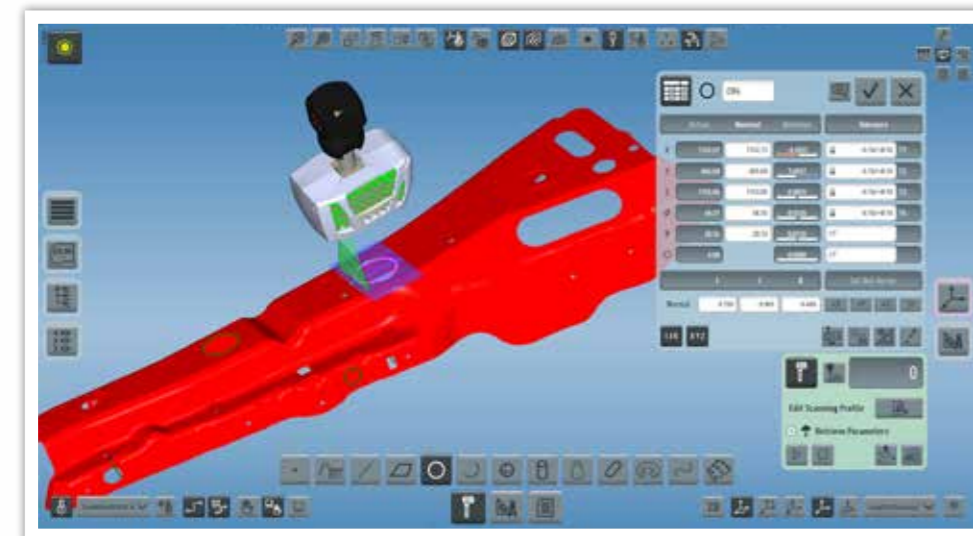
TouchDMIS offers a choice of Inspection Reports for real-time reporting. XML, Excel, TXT and PDF exportable output provides flexible reporting.

# Touch2SCAN

## Laser and Analogue Scanning with Uncompromised Accuracy

The vast range of features and components typically measured on metrology devices increases the need for highly versatile scanning options. TouchDMIS is compatible with both laser scanning and analogue scanning to precisely match the requirements of a specific application.

High-speed scanning supported by TouchDMIS increases productivity by minimizing inspection cycle times and maximizing measurement throughput. In addition, data can be exported to 3rd party point cloud analysis software for further data evaluation, including reverse engineering.



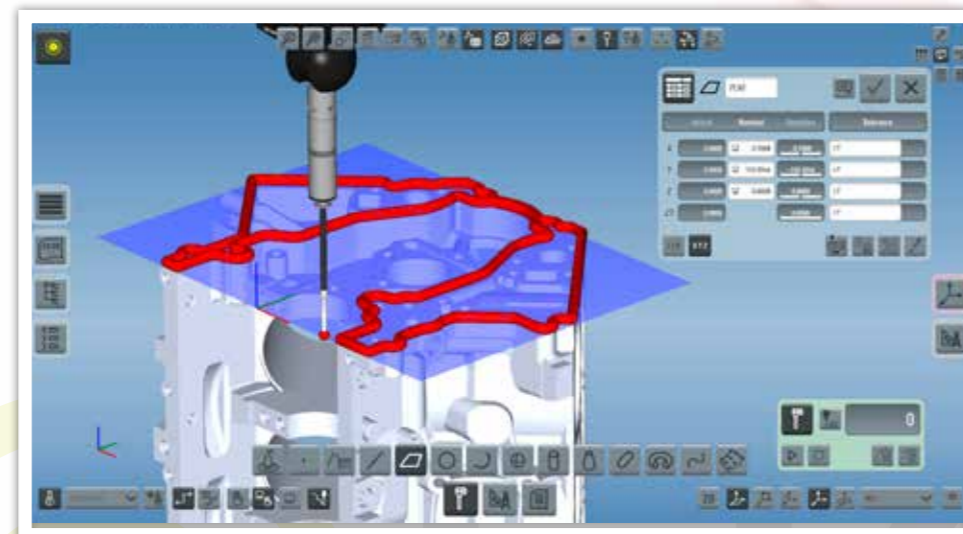
Feature extraction from point cloud provided by Perceptron laser scanner

### Laser Scanning

- Scan path generation options:
  - Line Scan
  - Area Scan
  - Multipath Scan
- Scan paths generated with or without CAD model
- Scan paths picked from point cloud, CAD model or using joystick
- Scan paths can be interactively optimized by dragging the Touch disc or by inputting the coordinates

### Analogue Scanning

- Individual scan path strategies for each feature type
- Scan data filtering
- Graphical display of scanning results
- Known and unknown curve scanning



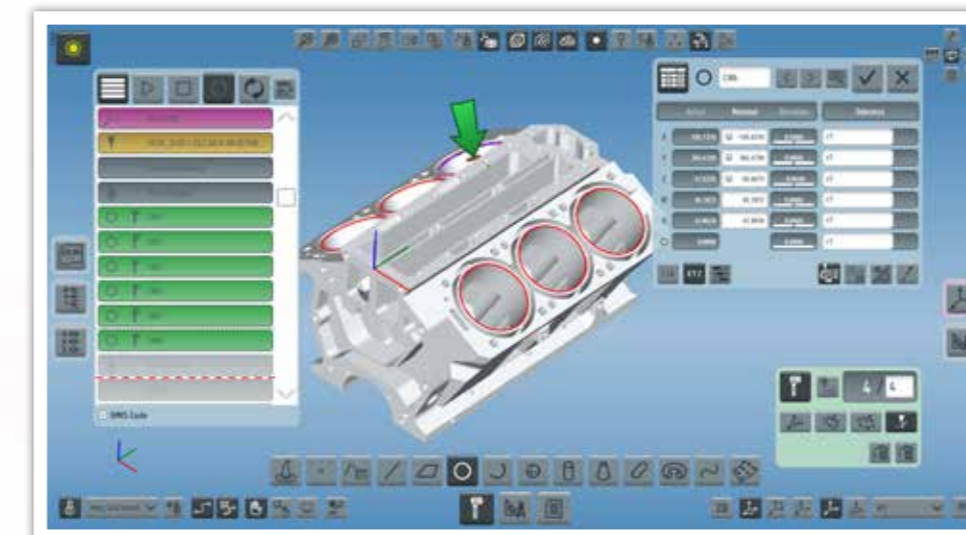
Planar scanning using edge offset

# TouchCMM

## Advanced Functionality

Expert CMM programmers have full access to the underlying DMIS code, allowing high-level programming by selecting the DMIS View Window. DMIS code for an individual program block can be viewed, providing rapid editing capability.

To avoid machine and part collisions, all measurements can be simulated before committing them to the Inspection Part Program.



- Start program from any code line
- Programmable buttons: play | pause | stop | record
- Probe path strategy and path editing with Touch-Drag disc
- Probe path visualization with full measurement simulation
- Program import from other DMIS CMM software packages



Block mode programming



DMIS editor



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## About Perceptron

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Perceptron (NASDAQ: PRCP) supplies a comprehensive range of automated industrial metrology products and solutions to manufacturing organizations for dimensional gauging, dimensional inspection and 3D scanning. Products include 3D machine vision solutions, robot guidance systems, coordinate measuring machines, laser scanners and advanced analysis software. Globally, automotive, aerospace and other manufacturing companies rely on Perceptron's metrology solutions to assist in managing their complex manufacturing processes to improve quality, shorten product launch times and reduce costs. More than 900 systems, 12,000 Perceptron measuring sensors and over 3,000 COORD3 coordinate measuring machines are in active daily use worldwide. Headquartered in Plymouth, Michigan, USA, Perceptron operates worldwide with subsidiary operations in Brazil, China, Czech Republic, France, Germany, India, Italy, Japan, Singapore, Spain, Slovakia, and the UK.

Your  
**Metrology**  
is our  
**Focus**

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