



**Contract
Metrology
Services**

ABOUT EXACT METROLOGY

Exact Metrology, Inc. is a full service measurement services company that provides on-site inspection, reverse engineering, non-contact laser scanning, and 2D/3D digitizing services as well as contract programming, software training, part programming, and measurement equipment implementation. Our complete range of portable CMM and scanning equipment allows us to handle most measurement tasks at the customer's facility. These technologies, together with our decades of combined experience, gives us the ability to measure everything from small parts to parts over 30 meters as well as long-range, large format scanning for architecture, civil engineering and surveying applications.



TABLE OF CONTENTS

Contact Measurement

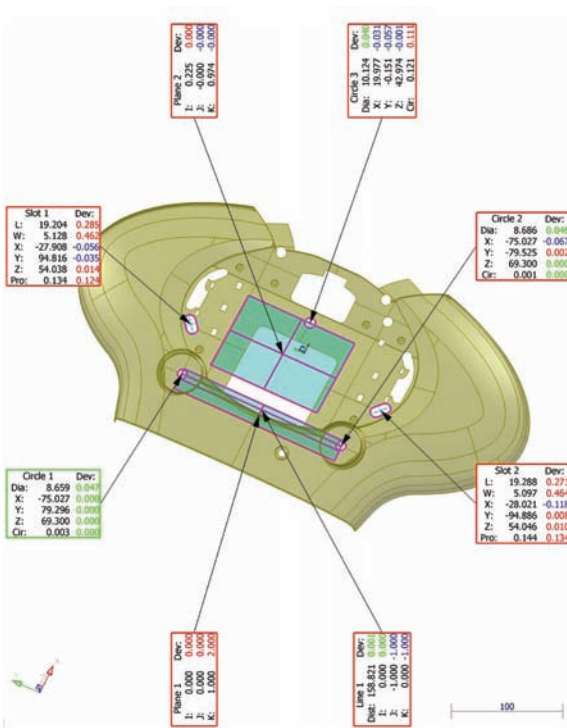
Non-Contact Measurement

Reverse Engineering

Long Range Scanning

**Motion Measurement
& Analysis**

Equipment Solutions



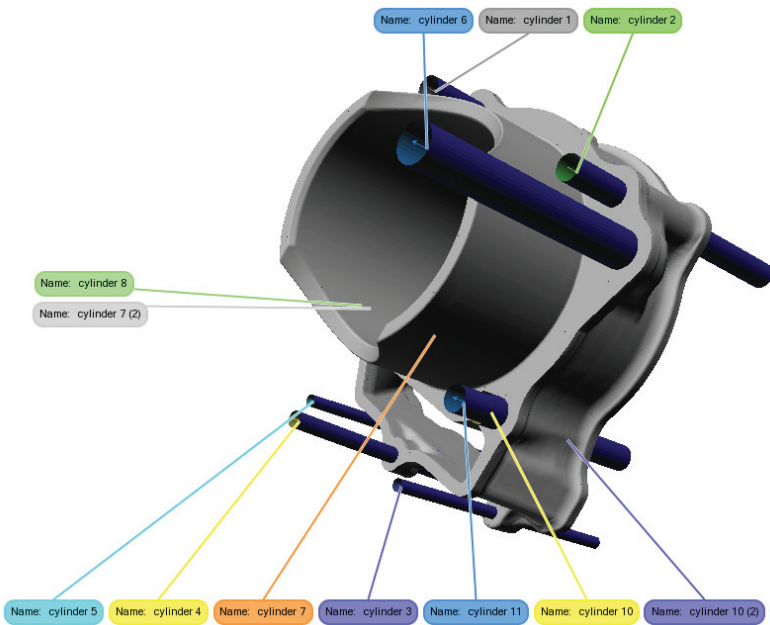
CONTACT MEASUREMENT

Contact Measurement is a method of collecting single points relative to each other in small or large volumes. This information can then be used for evaluation, inspection, layout or basic geometric reverse engineering. Exact Metrology is pleased to offer contract service options as well as hardware and software solutions for contact measurement.



There are a wide range of solutions for contact measurement, and two types of systems solutions are available for portable CMMs:

1. For capturing localized or small volume information, digitizing or articulating arms are ideal.
2. For larger volumetric projects, optical solutions including laser trackers and photogrammetry portable CMMs are ideal.



NON-CONTACT MEASUREMENT

Three dimensional white light or laser scanning, sometimes called "digitizing," is the process of capturing the geometry of existing physical objects through the use of laser-emitting camera-like devices. Our laser scanning technologies capture the 3D definition of both small and large objects.

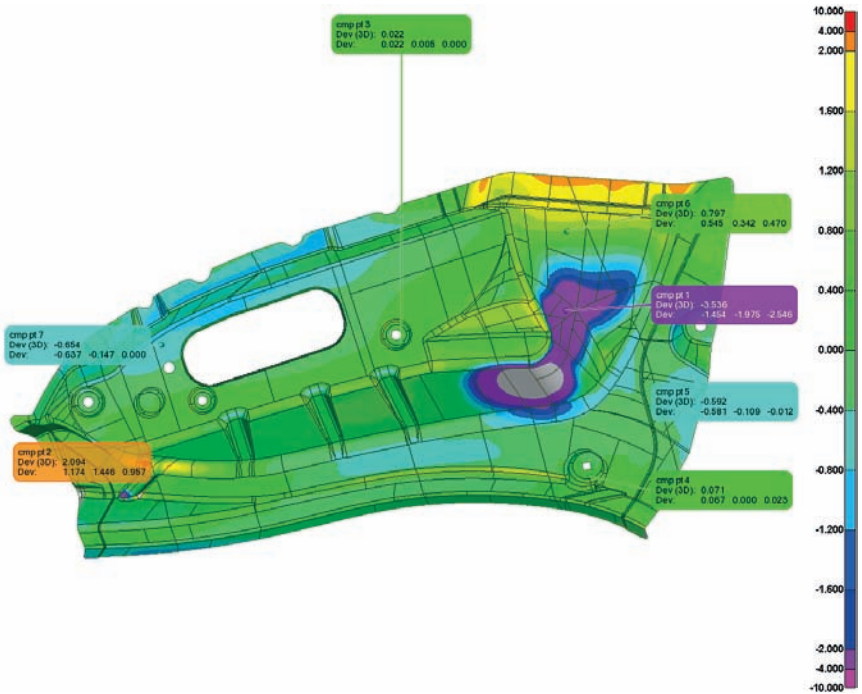


Image courtesy of
InnovMetric Software Inc.

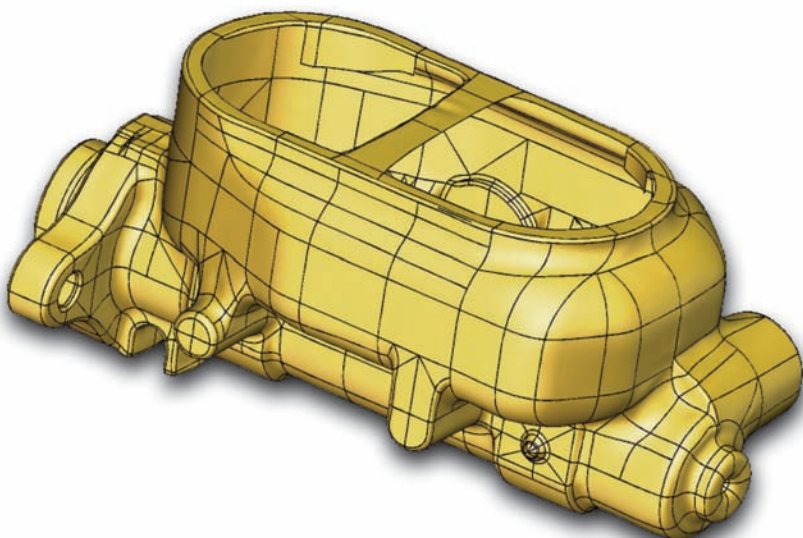
Exact Metrology offers 3D non-contact measurement services for a variety of applications and industries. Just a few of those applications include:

- Reverse engineering
- Rapid prototyping
- Non-contact inspection
- Visualization for print, web, and/or video



REVERSE ENGINEERING

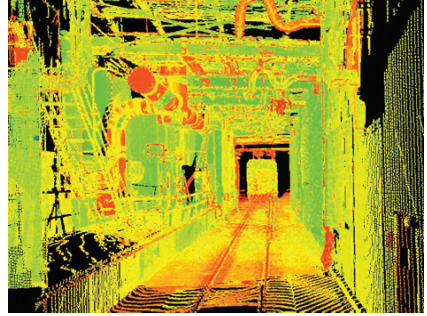
Reverse Engineering is the process of taking measurements of an existing part or object and then creating an exact CAD replica. The piece is intricately measured using our portable non-contact equipment, and a CAD model that reflects the original design of the object is then created.



Reverse Engineering can be extremely useful when you have a part or object, but do not have the original prints or design. In addition to the generation of the model from the existing object, Exact Metrology can incorporate other information (customer specifications, industrial standards, information from existing prints, etc.) to provide a complete CAD model.



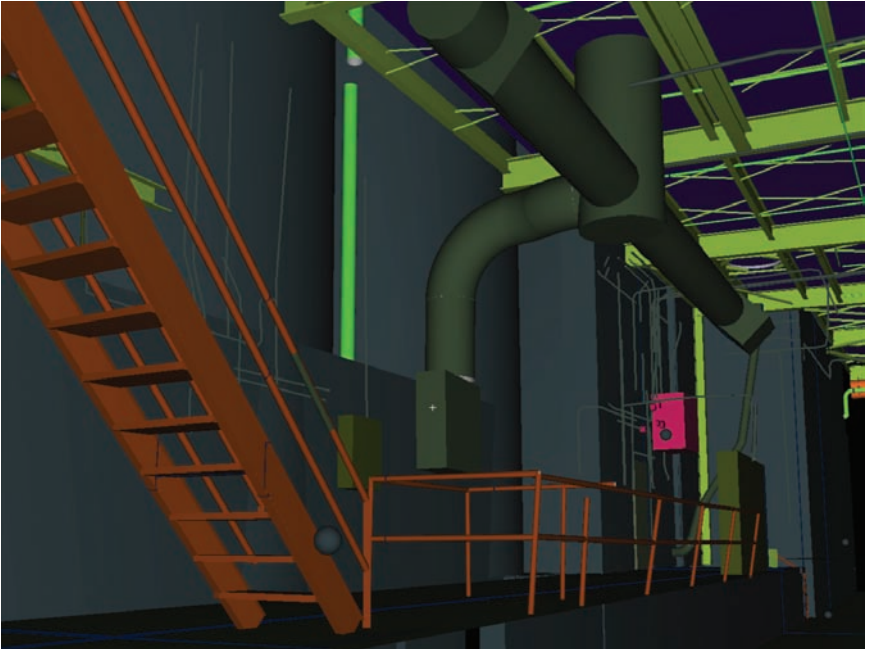
Photo



Point Cloud Data

LONG RANGE SCANNING

Our portable scanning technology allows our team to take detailed 360° 3D snapshots of any structure, bridge, plot of land, plant or process operation with millimeter accuracy. This allows for scans of complex, hard-to-reach, or dangerous environments to be completed safely and accurately.



Final CAD Data

A few applications include:

- Historical and legal archive
- Structural analysis and testing
- Online virtual showcases and tours



MOTION MEASUREMENT & ANALYSIS

Through the use of Dynamic Measuring Machines (DMMs), Exact Metrology can capture the fast, complex motion of many objects over large volumes with exceptional precision. With exceptional resolution and range, our DMMs are equally capable of measuring both the fine subtlety of small movements and the gross dynamic behavior of large motions.



Our DMMs are ideal for a variety of applications including:

- Part positioning and alignment
- Vibration analysis
- Part deformation and part dynamics
- Real-time feedback and control
- Structural testing
- Guided assembly
- Wind tunnel testing
- Door/hood/trunk closure testing



EQUIPMENT SOLUTIONS



Exact Metrology also sells, services, and implements metrology equipment from industry leaders. Our highly trained team can configure our comprehensive lineup of portable CMMs, laser scanners, 3D metrology & digitization equipment and software for almost any application.



Our equipment solutions include products from:

- ROMER
- Leica Geosystems
- Breuckmann
- Perceptron
- InnovMetric
- Delcam
- NDI
- Artec



Superior Measurement
That Goes the Distance

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