

SurfacePRO

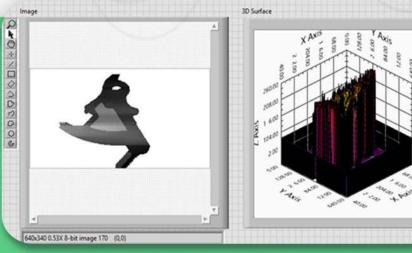




Alliance Partner

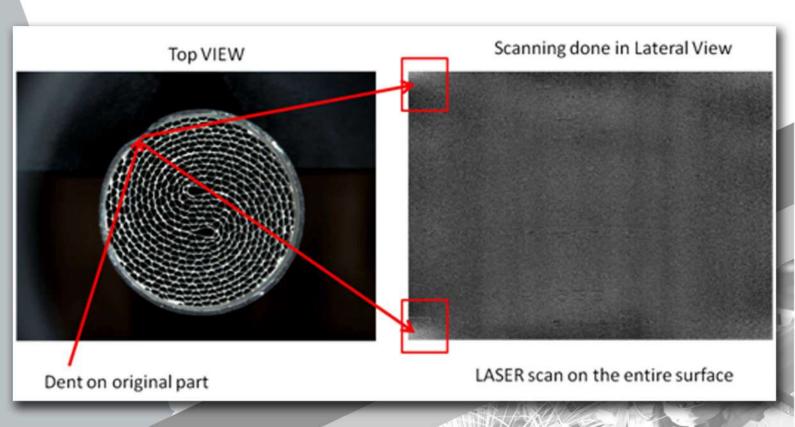
Machine Vision System

The Machine Vision system SurfacePRO for automated surface inspection captures material and production induced defects on flat and cylindrical parts. It can detect even the smallest surface defects upto +/- 30 microns for scratches, dents and pores.



3D Depth information from LASER has been plotted

SurfacePRO is also capable of inspecting geometric and dimensional accuracy. Traditional camera based approach will not work to achieve high accuracy because of lack of 3D depth information, so we are using both LASER based and Camera based inspection to parameters like scratches, dents, color, rust and other geometrical measurement . A huge point cloud of data is generated and mathematical models are applied to identify dents and scratches. Below figure shows how data from laser converted into an Image showing dents as bright spots.



Applications / Usage

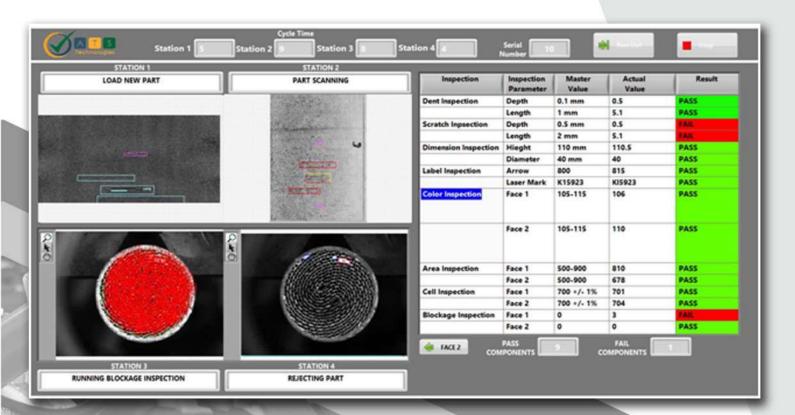


Inspection of visible, sealing and functional surfaces on automotive parts, such as

- 1. Inspection of Catalytic Converter.
- 2. Surface and contour inspection of gaskets.
- 3. Surface inspections and quality sorting for automobile rear mirrors.
- 4. Quality inspection of forged parts (connecting rods).
- 5. Inspection of printed electronic boards.

SurfacePRO at a Glance:

- 1. Automatic 100% quality inspection of surfaces.
- 2. Application-specific machine vision, customized for the relevant defect.
- 3. Objects with different diameter and height can be easily configured.
- 4. LASER and Camera in a single machine.
- 5. Capable to detect multiple defects, such as color, rust, etc.
- 6. Report Generation module integrate with database tools to store and retrieve configuration.



About Us

Automated Test Systems Technologies Pvt Ltd is an Alliance Partner of National Instruments based in Chennai, India. We are experts in design and development of automated test systems for engineering validation and End of Line production testing. We help our clients to optimize productivity and quality in the production of goods and delivery of services. We take pride in providing complete turnkey solutions, Data Acquisition and Measurement systems, Hardware-in-Loop testers, Vision inspection and Real time systems for manufacturing industry.

Our Products









System

Data Acqusition Vision Inspection System

Test Rigs

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Our Expertise

- End of Line Tester
- ✓ Performance Tester
- ✓ Endurance Tester
- ✓ Machine Vision System
- LASER Inspection System
- In circuit Tester
- Functional Tester

- ✓ Scratch / Dent Inspection System
- Thickness Measurement System
- ✓ Motor Testing System
- In-Vehicle Data Logger
- Structural Health Monitoring System

Contact Us

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Our Clients





















