

ATT Metrology Solutions: Targetless 3D Inspection w/ Results in Under a Minute

PROBLEM STATEMENT

- 1) **A shortage of skilled workers.** We see this in the demand from our customers for measurement services across all industries.

- 2) **New inspection methods are needed for new technologies.** Electric-powered bikes, cars, trucks, boats and airplanes have much different parts than older designs and need new processes and different equipment to perform quality inspection on them. Another example is the wearables market with the Meta Oculus and Microsoft HoloLens. Even big software companies have struggled to make hardware and do dimensional management well in the build of their products.

- 3) **Integrate automated inspection directly into the manufacturing process.** We're building manufacturing cells that provide dynamic machine path correction for enhanced build accuracy and also inspect parts in-line.

- 4) **Process and filter high volumes of data.** Legacy inspection techniques created a handful of inspection points. Modern point cloud collection now gives exponentially more data, and buyoff criteria has not kept pace to deal with the increase in non-conformances that are found.

- 5) **Simplify the metrology user experience.** Metrology data that is hard to collect and use feeds into the shortage of skilled labor that companies are already dealing with. We automate the data processing and simplify the user experience.

BENEFITS

Technical expertise: One of the primary competitive advantages for ATT in the metrology industry is our technical expertise. We have a deep understanding of the latest metrology technologies and methods that allows us to provide better measurement and inspection services, helping our clients improve quality, reduce waste, and optimize their manufacturing processes.

Range of services: Another key advantage is our range of services offered. We provide a broad portfolio of metrology services, rentals and integrated solutions, such as 3D scanning, coordinate measuring, and surface analysis. This allows us to offer a more comprehensive solution to our clients and help them address a wider range of needs.

Industry-specific knowledge: ATT specializes in serving specific industries, such as aerospace, shipbuilding, satellite, energy and civil. Having industry-specific knowledge and experience is a key advantage in understanding the unique challenges and requirements of that industry and providing tailored solutions.

TECHNOLOGY SOLUTION

- 3D SCANNING
- AUTOMATION TECHNOLOGIES
- PRECISION MEASUREMENTS
- INSPECTION
- REVERSE ENGINEERING
- AUGMENTED REALITY / VIRTUAL REALITY
- REMOTE VISION EQUIPMENT
- MAINTENANCE AND CALIBRATION SERVICES
- COLLABORATIVE ROBOTS FOR INDUSTRIAL APPLICATION
- INSPECTIONS (tank and voids)
- INDUSTRIAL AUGMENTED REALITY
- ROBOTICS
- COORDINATE MEASURING MACHINE (CMM)

GRAPHIC



ATT Metrology Solutions

About the Company

- Founded in 1988
- Integrated Metrology Solutions
- Contract Inspection Services
- Equipment Rental
- ISO 9001:2015/AS9100D Certified
- NADCAP and ITAR Compliant
- Offices and Technical Centers in:
 - Issaquah, Washington (HQ)
 - Charleston, South Carolina
 - Mobile, Alabama

We measure success by the effectiveness of your results.