





MACHINE VISION SYSTEMS & INTEGRATION

- MEASUREMENT
- INSPECTION (PRESENCE-ABSENCE)
- ERROR & CRASH PROOFING
- IDENTIFICATION
- ADAPTIVE MOTION-VISION
- SURFACE DEFECTS

1.888.854.2376 www.aerospecinc.com



LEAN WORK CELLS - HIGH VOLUME AUTOMATION

Medical – Pharmaceutical – Solar – Semiconductor – Food



APPLICATION SPECIFIC MACHINE VISION SOLUTIONS





APPLICATION DEVELOPMENT

Up front engineering determines optical characteristics of objects which define selection of optimum camera, lighting, and lensing.



INSPECTION (PRESENCE - ABSENCE)

High speed detection of components and features vital to the quality of the end product. Simplifies integration of error proofing systems.



MEASUREMENT

Provides real time measurement and data collection with submicron accuracies and cycle speeds of 25 inspections per second or more.





IDENTIFICATION
Systems that prov

Systems that provide OCR, OCV, and 2D barcode read/verify capability. Data is exported via RS232, Ethernet or digitally.

ADVANCED DETECTION TECHNOLOGY

Advanced techniques in lighting, lensing, and filtering optimize the detection capability of surface defects.





VISION INTEGRATION Networked cameras are integrated into high volume automation equipment to provide simultaneous inspection of a variety of features on a single part or assembly.



Machine Vision Systems are developed, produced and documented in accordance following ISO 9001 procedures.

V QUALITY STATEMENT

AeroSpec commits to understand and meet its customer's requirements by providing equipment and services that set industry standards for responsiveness, quality, and value.



PROJECT MANAGEMENT

The key to the success of a project with a tight deadline where long lead components are an issue. **Proven Track Record of on-time delivery.**

Includes ANOVA Gauge R&R Testing and Capability Analysis to ensure compliance with process specifications. Analysis performed on MiniTab® and other statistical software tools. Equipment incorporating Machine Vision Systems include a one year warranty for workmanship and materials.







ADAPTIVE POSITIONING

Machine vision provides precise guidance to high speed motion systems and robots under changing conditions. Ideal when hard tooling is not practical.



OTHER CAPABILITIES

Machine Vision Systems are not our only business. In fact, AeroSpec's vision capabilities grew out of our extensive experience building automated assembly machines and test equipment.



▲ EQUIPMENT DESIGN & DEVELOPMENT Advanced assembly and test systems are designed using SolidWorks® and AutoCAD®.

CONTROLS DESIGN & INTEGRATION

Hardware and software engineering for automated equipment, factory floor applications, and custom control panels.

MACHINE BUILDING

From lean assembly cells to high volume automated assembly and test systems, AeroSpec has delivered equipment worldwide.



▲ INDUSTRIAL CONTROL PANELS

High Quality Control Panels are designed for the most critical applications in your plant including process, production, and material handling.

FABRICATION & WELDING

Certified Welding is performed by AeroSpec on structures and sheet metal components using TIG, MIG, and Resistance welding.

PRECISION MACHINING

Precision parts, produced by highly experienced prototype machinists, are 100% inspected in accordance with ISO 9002 procedures.



The company quickly grew from a small precision machine shop into a commercial equipment and automated tooling supplier. In the late 1980's, AeroSpec began to deliver complete turn-key automation systems to the automotive industry. In the early 1990's, AeroSpec expanded into multi-cell flexible assembly systems which incorporate advanced factory floor software packages for system diagnostics and part tracking. In recent years, AeroSpec has met the production demands of high volume semiconductor manufacturers by adding additional engineering and production capacity to fulfill large quantity orders of automated tools for delivery worldwide.

AEROSPEC, INC. Established 1982 505 E. Alamo Dr., Chandler, AZ 85225 Email: aeromail@aerospecinc.com Website: www.aerospecinc.com Toll Free:1.888.854.2376Phone:480.892.7195Fax:480.892.0646