MEASUREMENT

INSPECTION (PRESENCE-ABSENCE)

ERROR & CRASH PROOFING

IDENTIFICATION

ADAPTIVE MOTION-VISION

SURFACE DEFECTS
APPLICATION SPECIFIC MACHINE VISION SOLUTIONS

APPLICATION DEVELOPMENT

Up front engineering determines optical characteristics of objects which define selection of optimum camera, lighting, and lensing.
Machine Vision Systems are developed, produced and documented in accordance following ISO 9002 procedures.

**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.*

**VALIDATION**
Includes ANOVA Gauge R&R Testing and Capability Analysis to ensure compliance with process specifications. Analysis performed on MiniTab® and other statistical software tools.

**CUSTOMER SERVICE**
Equipment incorporating Machine Vision Systems include a one year warranty for workmanship and materials.

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

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

**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.

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

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

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

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.

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.

Equipment Design & Development
Advanced assembly and test systems are designed using SolidWorks® and AutoCAD®.

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

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.