

## Inspection Cells

**Inspection Cells** are standalone, high-performance automated systems designed to perform precise, **real-time inspections** in manufacturing environments. These cells are equipped with **advanced vision systems**, high-resolution cameras, and **custom AI models** to identify defects, verify dimensional accuracy, and ensure part compliance to tight tolerances. Integrated seamlessly into existing workflows, Inspection Cells enhance quality assurance processes, reduce scrap, and boost production throughput.

### Lighting Control Enclosure

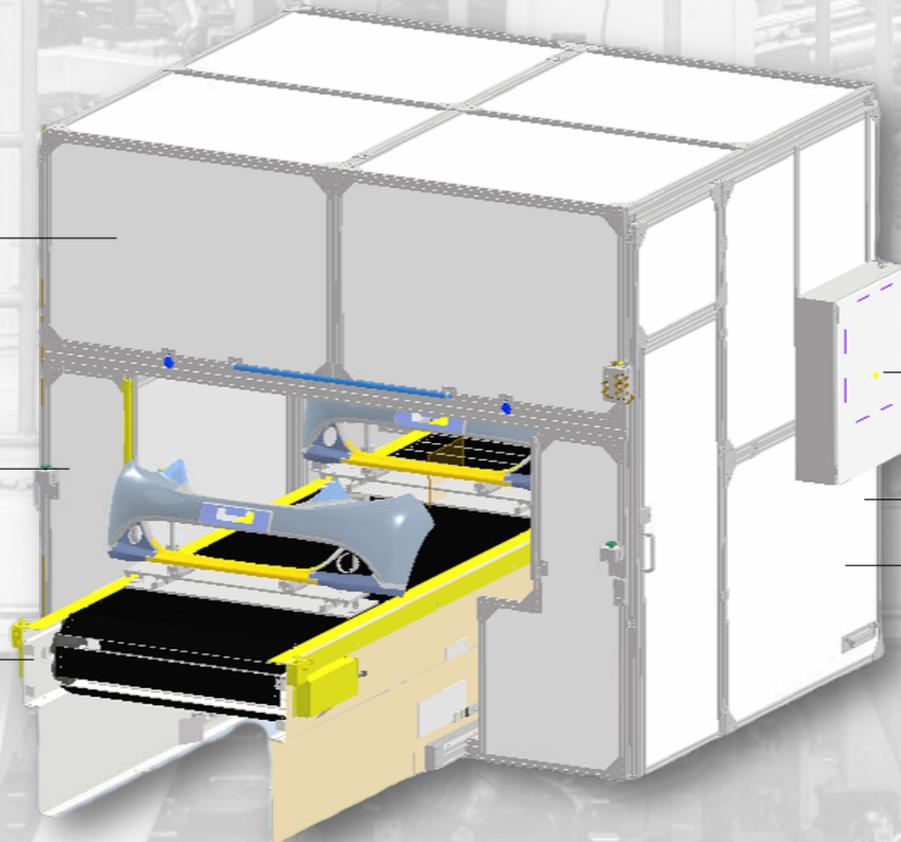
Regulates RGBW LED arrays for optimal defect visualization.

### Robotics

Collaborative or industrial arms handle part positioning for consistent and accurate inspection.

### Conveyor Systems

Adjustable-speed conveyors ensure consistent part flow through inspection zones



### Vision Systems

Centralized AI-powered system processes real-time image data for defect detection and quality checks.

### Misc. Hardware

Additional components such as sensors, light curtain, lockout mechanisms, etc...

### Cameras

High-resolution cameras positioned for optimal part coverage and precision imaging.

## Technical Capabilities

- **Inspection Accuracy:** Detect defects and dimensional variances within micrometer tolerances
- **Inspection Speed:** Handle up to 60 parts per minute, depending on application.
- **Part Compatibility:** Accommodates a wide range of sizes, shapes, and materials, from small electronics to large automotive components.
- **Data Management:** Integrates seamlessly with traceability systems for real-time reporting and analytics.
- **Safety Compliance:** Fully adheres to OSHA and international safety standards.



Automotive



Medical



Electronics



Molding

Consultation and Design

Customization

On-Site Installation

Calibration and Testing

Runoff Validation

Training and Support



## Advantages

- **Precision and Speed:** Advanced AI and vision systems ensure fast, accurate inspections with minimal downtime.
- **Labor Savings:** Replace repetitive human tasks with automated processes to reduce costs and improve consistency.
- **Flexibility:** Adaptable to different part types and production line configurations for maximum versatility.
- **Data Integration:** Real-time reporting and traceability enhance quality assurance processes and support industry compliance.
- **Safety and Reliability:** Built with operator safety and robust hardware for reliable, long-term operation.