

## Inspection Workstations

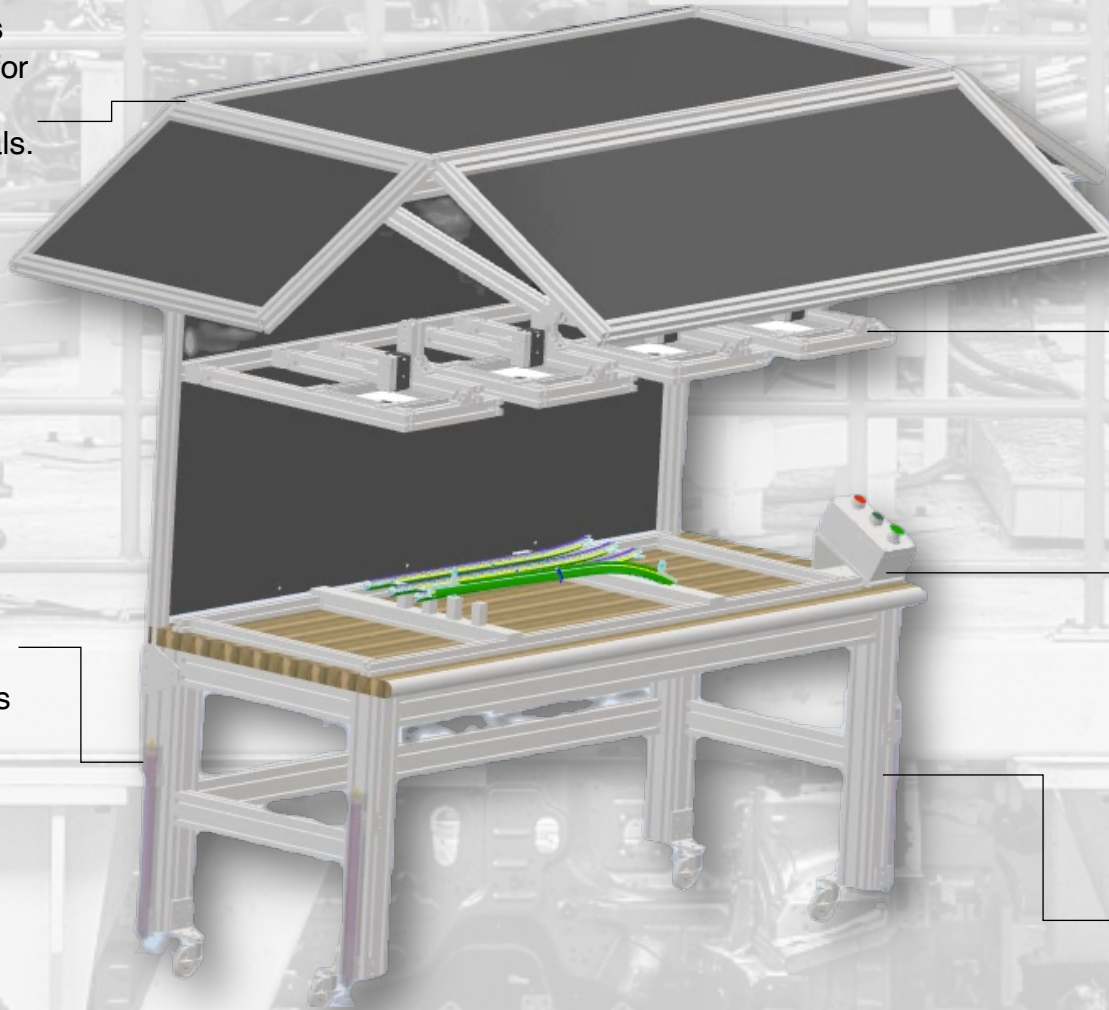
LM3 Technologies' **inspection workbenches** provide **precise, ergonomic, and customizable** solutions for **manual and semi-automated quality control**. These workbenches integrate **advanced vision systems, adjustable lighting, and operator feedback interfaces**, enabling **reliable and consistent defect detection, parts validation, and quality sorting** across a wide range of industries.

### Lighting Control Systems

Adjustable RGBW lighting for optimal visibility across a variety of parts and materials.

### Safety Measures

Includes light curtains and palm buttons to ensure operator safety and process control.



### Integrated Vision Systems

High-resolution cameras and AI-driven detection capabilities for real-time defect identification.

### Operator Interfaces

Touchscreen displays and physical controls for inspection task monitoring and adjustments.

### Durable Workbench Structure

Designed for industrial use, capable of accommodating heavy-duty equipment and extended operation.

## Technical Capabilities

- **Defect Detection:** Advanced AI-driven vision systems capable of identifying surface flaws, dimensional inconsistencies, and assembly errors in real time.
- **Adjustable Lighting:** High-precision RGBW lighting control, customizable to highlight defects across different materials, textures, and colors.
- **Data Integration:** Seamless integration with factory networks for real-time data capture, traceability, and analysis. Supports storage on local SSDs or networked servers.
- **Safety Features:** Integrated light curtains, emergency stop buttons, and ergonomic design to ensure safe and efficient operation by personnel.
- **Customizable Components:** Modular design allows for easy adaptation to various part sizes, inspection requirements, and industry-specific needs.
- **Reporting and Analytics:** Captures detailed inspection logs and generates performance analytics, aiding in continuous process improvement.

Initial Consultation

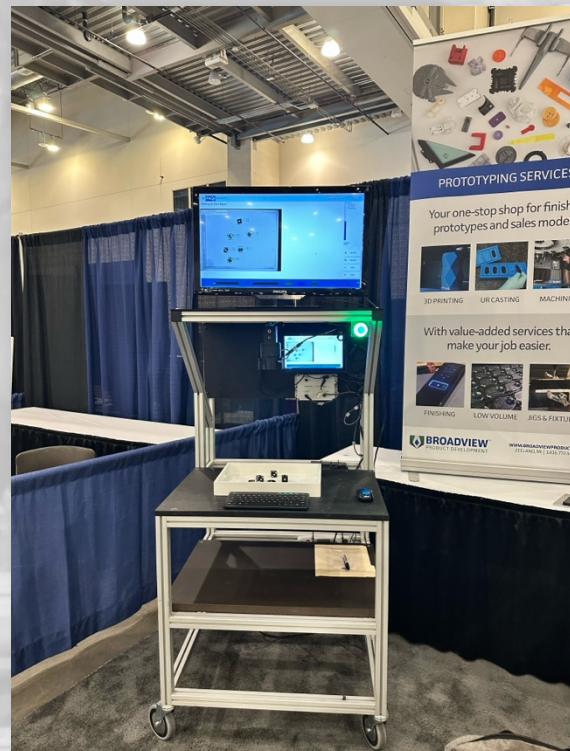
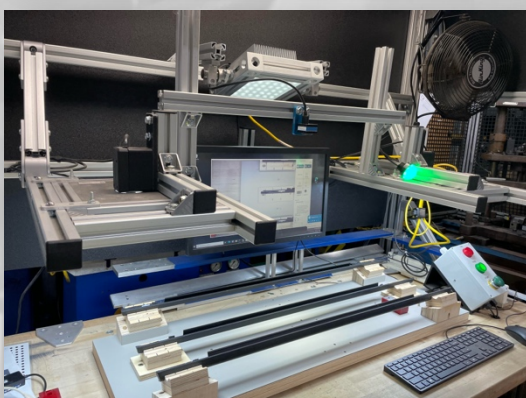
Design Customization

On-Site Installation

Assembly and Installation

Image Collection & AI Training

Validation and Deployment



## Advantages

- **Enhanced Accuracy:** AI-driven inspections reduce human error.
- **Ergonomic Design:** Improves operator comfort and efficiency.
- **Customizable:** Configurable to specific industry or inspection requirements.
- **Integrated Traceability:** Real-time data capture for compliance and quality reporting.