

# MECTRON

# Q-5000

## Ammunition

### DIMENSIONAL INSPECTION



Mectron Inspection Systems

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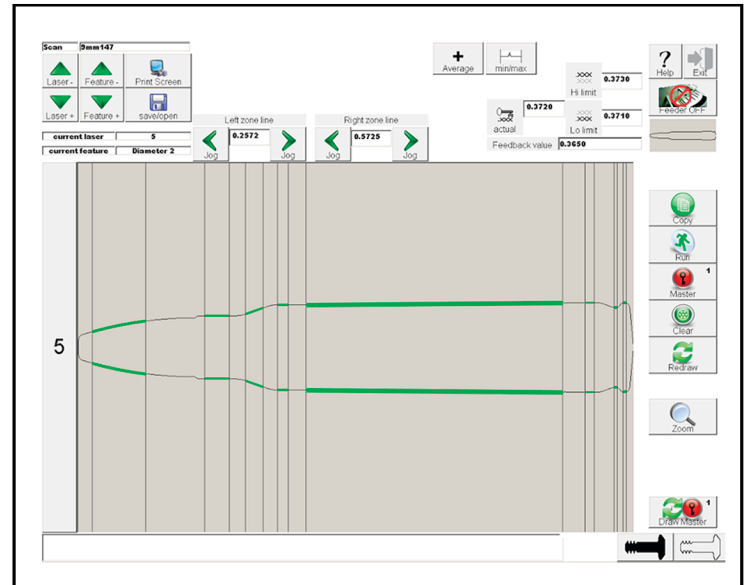
Fax: (734)944-8778



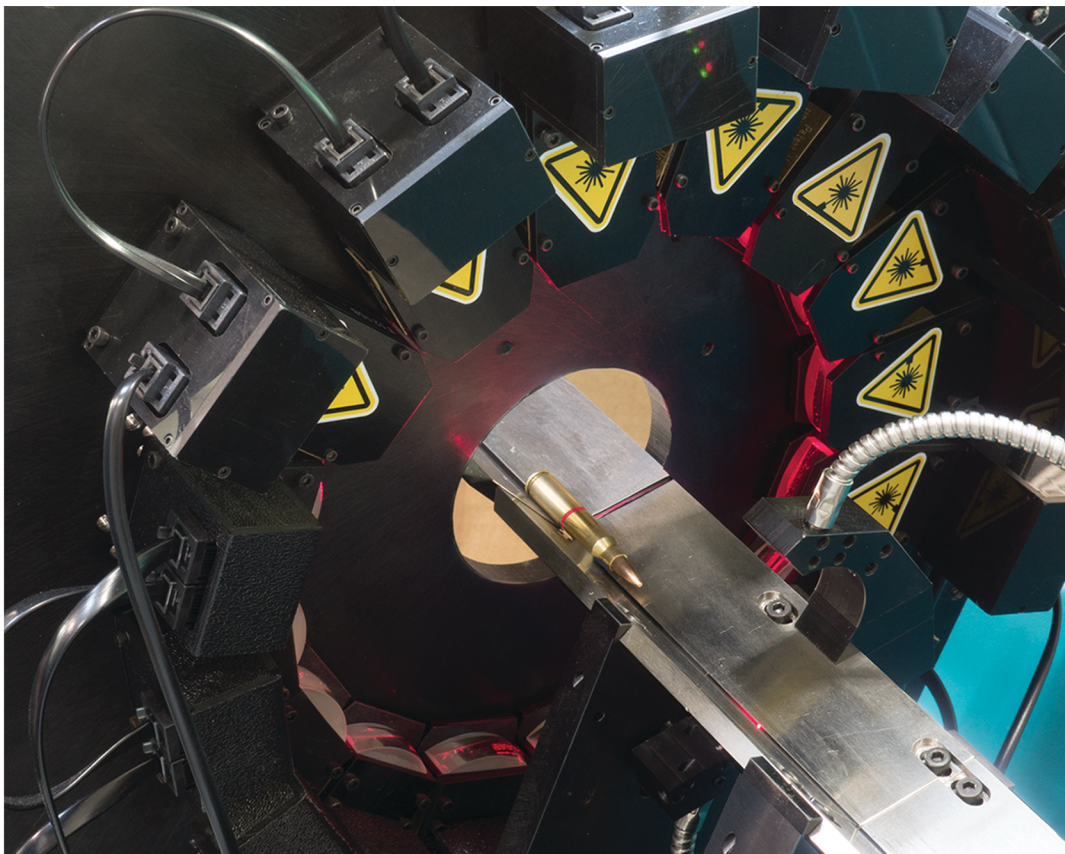
[www.MectronInspection.com](http://www.MectronInspection.com)

# The Mectron Advantage

- The laser array provides up to 16 points of inspection through 360° over the entire length of the part.
- Advanced software allows you to customize your part feature name to part print for each gauge zone.
- Touchscreen operation lets you quickly define or modify inspection instructions including tolerances and critical dimensions.
- Laser Length Analyzer provides measurement of feature lengths, stack-up, head height and overall lengths.
- Optional - Tilt Laser Array Plate will accommodate products with extreme cosine angles. Moving the laser perpendicular to the center line of the part allows for true measurements in both axes.



Simply pass a good part down the track to display the part outline on the instrument's touchscreen. Utilizing your part print, you can set up to 14 gauge zones to inspect the product. Each gauge zone can be custom labeled by the part print feature name. All setups can be saved by part number.



Mectron's patented radial array of laser light provides a distinct advantage with the part being inspected by multiple point occlusion. The degree of occluded light is directly related to the part's dimensions as it moves through the inspection points.

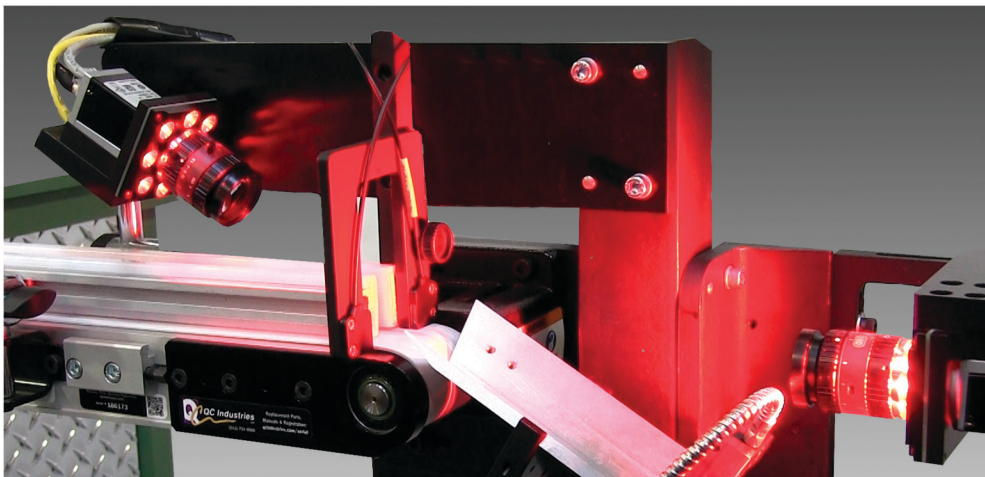
Patented

# CCD Camera for Part End Inspection



## High-Resolution Camera Proprietary Software

The head inspection is done using a high-resolution CCD camera with Mectron proprietary software. The software provides a variety of flexible tools to inspect features of the head such as: letter recognition, flash hole, primer pocket and primer depth. The camera is triggered by an optic sensor and takes a picture of each part to ensure all defects are found. The customized lighting of the part allows all details to be analyzed by the software quickly and accurately.



A second camera can be added to inspect the inside of the cartridges. This can be used to detect burrs in the flash hole or excess material on the cup face.



After each station has made a determination about the part, a solenoid driven lever gate is activated for good parts only. Positive acceptance allows for a fail-safe operation. An optical window positioned after the gate gives an accurate count of the number of accepted parts. The gate can operate at over 300 parts per minute.

# Mectron Q-5000 Qualifier®

Since 1968, Mectron Inspection Systems has designed and manufactured systems for automatic testing of industrial parts. The Mectron name has been built on technology, customer service and inspection systems that provide capabilities for supplying zero defect products.

Mectron Inspection Systems has become an integral part of providing manufacturers the means by which they can consistently supply and satisfy their customers with 100% inspected and certified parts.

The Mectron Qualifier® Q-Series Inspection Systems are systems you can count on for Quality Assurance.

## Dimensional Inspection Criteria

**DIAMETERS** Mouth  
Body  
Head  
Shoulder  
Extractor Groove

**LENGTH** Bullet Length  
Casing Length  
Cartridge Length  
Extractor Groove Width

**CAMERA** Primer Cups  
Flash Hole  
Head Markings  
Head Stamp  
Inverted Primer  
Cocked Primer



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