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# 636v

The Ultimate High Speed  
Ammunition Inspection Machine

100% Inspection System for Small & Medium Caliber  
Cases – Cartridges – Projectiles

# 636v

## The Ultimate High Speed Ammunition Inspection Machine



Visual Defect Detection  
Exceeding Mil-Std-636



### GI-636v

The Gi-636v is the ultimate high-speed ammunition inspection system. A combination of patented laser, vision, topography, and eddy-current technology provide unmatched accuracy and repeatability for all dimensional inspection and visual defect detection.



### Multi-View Surface Inspection:

A 16-camera vision inspection station provides more than 360° surface inspection. Used specifically for flaws and damage detection around the case circumference. Proprietary software analyzes part images in real-time, locates defects, and compares the defect size to the quantitative tolerances with finer detail than specified in Mil-Std-636. An additional 8 color camera SD vision station is available to detect stains, acid burns, and other surface discolorations.

### 360° Dimensional Inspection:

100% 3D inspection with multiple precision optics accurately measure ammo to print specifications; including lengths, diameters, radii, concentricity, angles, length to shoulder, virtual full-form, and more.



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# Optional Inspection Stations



## 100% Dimensional Inspection

3D inspection with multiple precision optics accurately measure ammo to print specifications; including lengths, diameters, radii, concentricity, angles, length to shoulder, virtual full-form, and more. All data collected can be exported into custom reports, SPC files, and exported to sequel server.

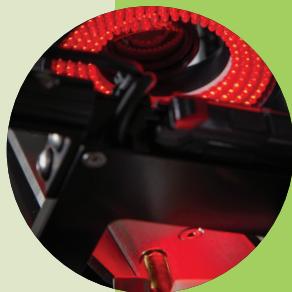


## SD Vision Station

Eight color cameras combined with custom LED lighting used to detect visual defects.

*This inspection station detects:*

Stains, discoloration, annealing lines, and scratches



## Primer Vision Station

Primer Vision measures and detects defects on the primer end.

*This inspection station detects:*

**Cases:** Head stamp presence/quality, Flash hole presence/debris, Primer pocket diameter/concentricity

**Cartridges:** Missing, inverted, cocked, dented primers, head stamp presence/quality/and presence and quality of lacquer waterproofing



## Mouth Vision Station

Mouth Vision measures and detects defects on the mouth end, such as wall thickness, roundness and splits.

*This inspection station detects:*

**Cases:** Splits, lip mouth, out of round

**Cases:** Measures mouth inner and outer diameter, roundness and wall thickness

**Cartridges:** Mixed or damaged HPT and FMJ bullets



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## 3D Primer Depth Station

Multiple cameras and precision lasers measure primer pocket depth and anvil height.

*This inspection station detects:*

**Cases:** Measures primer pocket depth

**Cartridges:** Verifies primer seating



## 3D Primer Pocket Diameter System

Multiple cameras and precision lasers measure the primer pocket diameter at the correct inner diameter location.

*This inspection station detects:*

**Measures:** Primer pocket diameter at the inner wall location



## Eddy Current Station

Uses electromagnetic force field to detect flaws in conductive material.

*This inspection station detects:*

Annealing, missing or partial lead core



## Weigh Station

High speed, integrated weigh station for detection of missing or partial lead core. Checks the weight of each projectile with optional dedicated reject chute.



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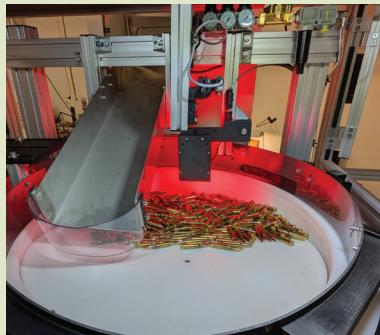
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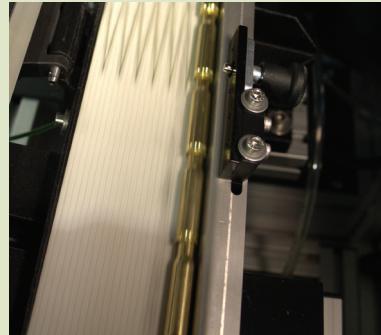
# Automation

GI offers a complete line of ancillary equipment to ensure optimum performance is achieved with each inspection system.



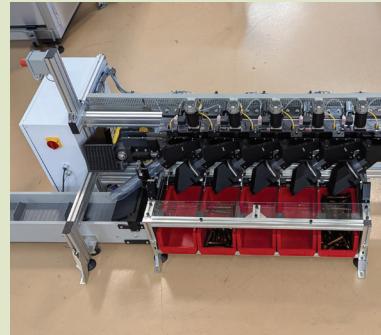
## Centrifugal Feeder

GI's centrifugal feeder system provides speed, flexibility, and saved programmable settings for consistent, low maintenance, error-free performance.



## Conveyer with metering

Conveyor acts as an accumulator, so that the metering wheel always receives parts; This, allows for the feeder to shut down when the conveyor is full. The metering wheel ensures that the space between the parts is consistent.



## Vibratory Hopper

A 5cuft vibratory hopper allows for bulk loading for hours of automatic operation. An integrated elevator bucket controlled by a load sensor maintains the proper level of parts in the feeder system to maintain optimum inspection rates.

## Multigate

The multi-gate system can be added to segregate by defect type or accept/reject levels. The multi-gate provides user defined bin allocation through GI's GUI.



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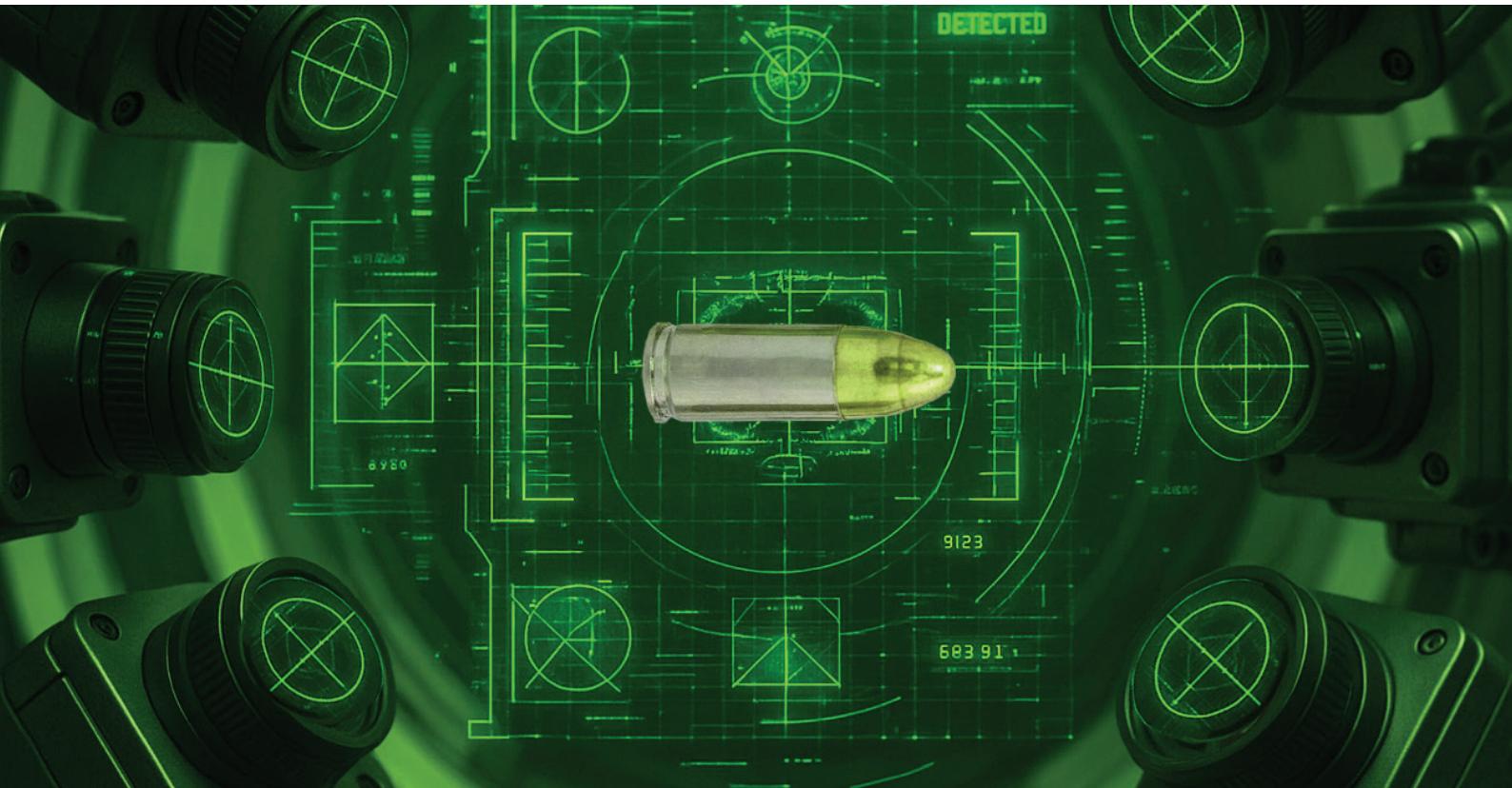
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# Get In Touch

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