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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.

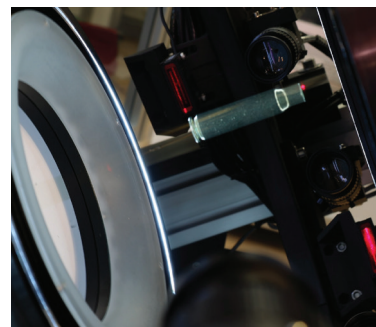


Multi-View Surface Inspection:

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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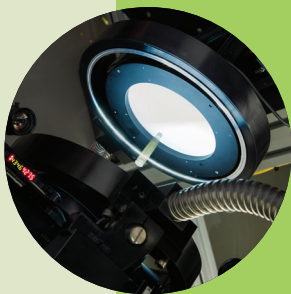
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Optional Inspection Stations



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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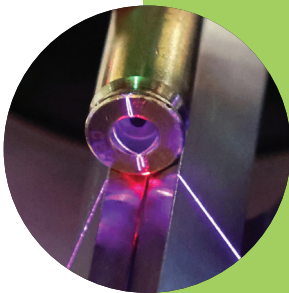
3D Primer Depth Station

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

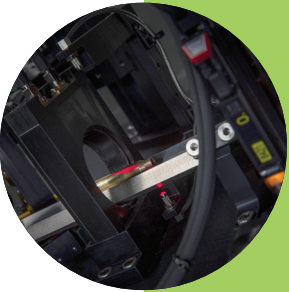


3D Primer Pocket Diameter System

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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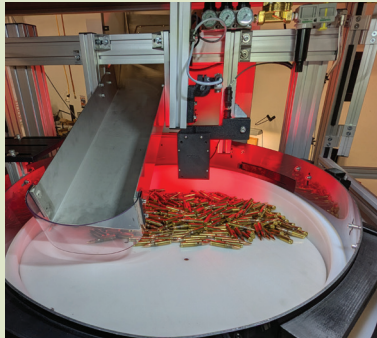
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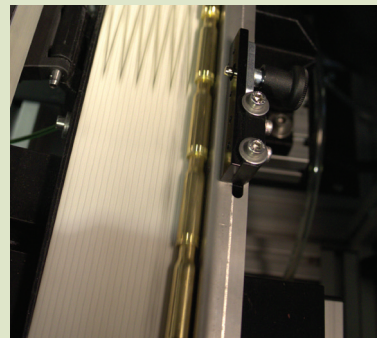
Automation

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.



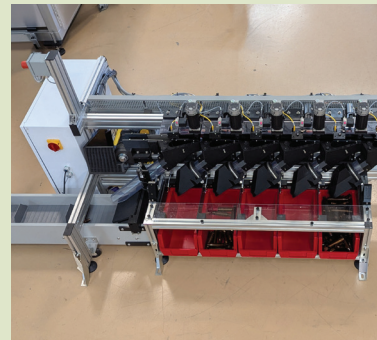
Conveyor with metering

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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