

HALO

Technology Simplified



High Speed Inspection System

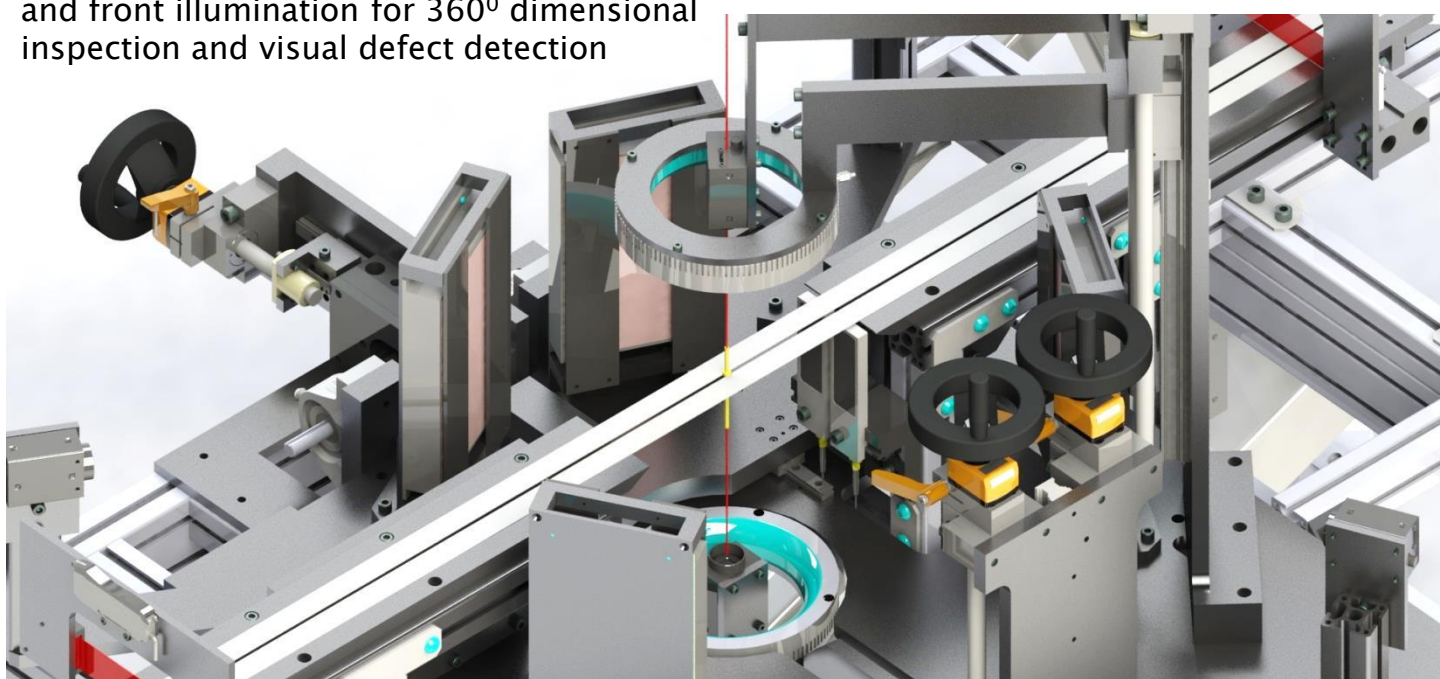
TECHNOLOGY SIMPLIFIED

Part changeover has never been so easy. HALO uses a hang-by-the-head gravity track to feed parts through a set of 4 cameras. By incorporating both back and front illumination the system provides 360° dimensional measurements as well as visual defect detection.

No more complicated bowl feeder changeover, only a quick width adjustment for shank diameter. No dial plates, no conveyors, HALO has a simple, single point track adjustment providing the fastest changeover in the industry. HALO ensures defect free product with the most advanced (patent pending) feature measurement and defect detection capability at rates up to 400 parts per minute.

Four camera system with sequenced back and front illumination for 360° dimensional inspection and visual defect detection

Single point adjustment hang-by-the-head gravity track



Air-Gate system separates good and defective parts at 400+ parts per minute

Optional: Top and bottom advanced inspection sensors



OPTIONAL SENSORS

INTERNALVIEWER VISION

TOP CAMERA

EDDY-CURRENT

AXIALVIEW CRACK DETECTION

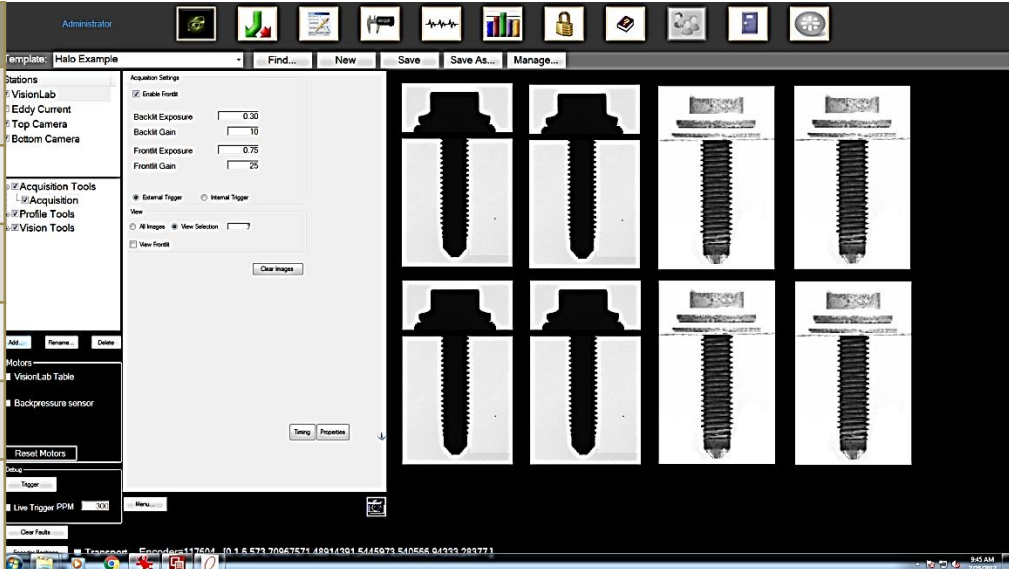
BOTTOM CAMERA

3D DEPTH

COMPLETE INSPECTION

MultiViewer: Dimensional Inspection and Visual Defect Detection

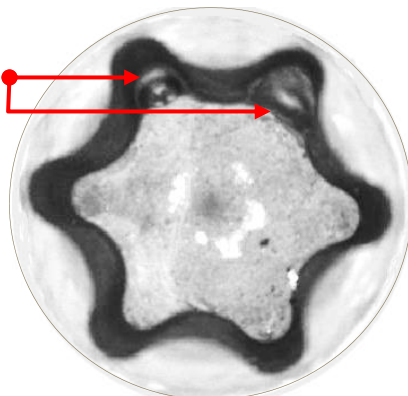
Gi-HALO features Multi-Viewer Vision: 4 cameras with back + front illumination to provide 360° dimensional inspection and visual defect detection using a patent pending sequenced lighting technique. And Gi's proprietary, easy to use, menu-driven software alleviates operator error with the ability to enter print dimensions and tolerances.

Measure		Detect
Lengths		Cracks
Diameters		Porosity
Threads		Nicks
Radii		Dents
Bend		Scores
Taper		Plating
		Color

InternalViewer: Drive Inspection (optional)

Adding InternalViewer to the Gi-Halo provides a high speed, **non-contact** recess (i.e. TORX) inspection solution unmatched in the industry. This specialty sensor combined with Gi's proprietary software with both measurement and visual defect detection tools ensure problems like chipped punch, plating build-up and improper form are eliminated at rates up to 400 parts per minute.

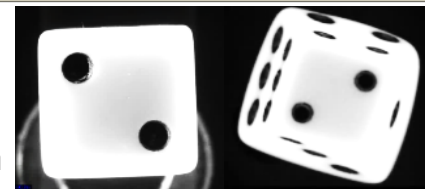
- Broken Tool
- Chipped Punch
- Plating Fill
- Damage
- Missing
- Dimensions



Individual Wing Inspection

AxialView: Crack Detection (optional)

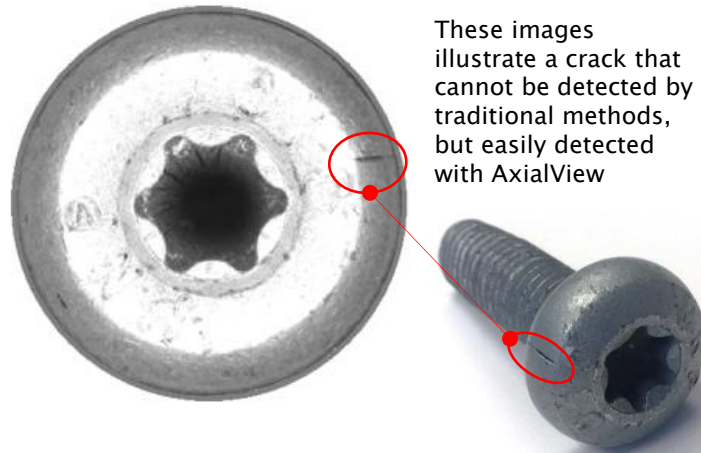
Need to detect flange or head cracks? Gi's AxialView system offers the perfect solution.



Standard sensor
images 1 side

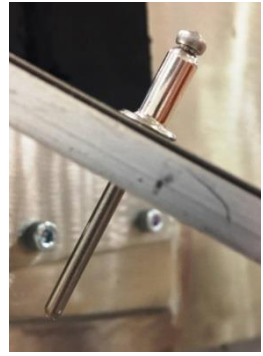
AxialView
images 5 sides

This non-contact specialty sensor unwraps the outer diameter where cracks are prevalent and combined with Gi's Axial software tool, cracks are easily discarded.



These images illustrate a crack that cannot be detected by traditional methods, but easily detected with AxialView

AUTOMATION



Standard, flexible feeder systems handle multiple applications



Metering devices ensure proper part spacing



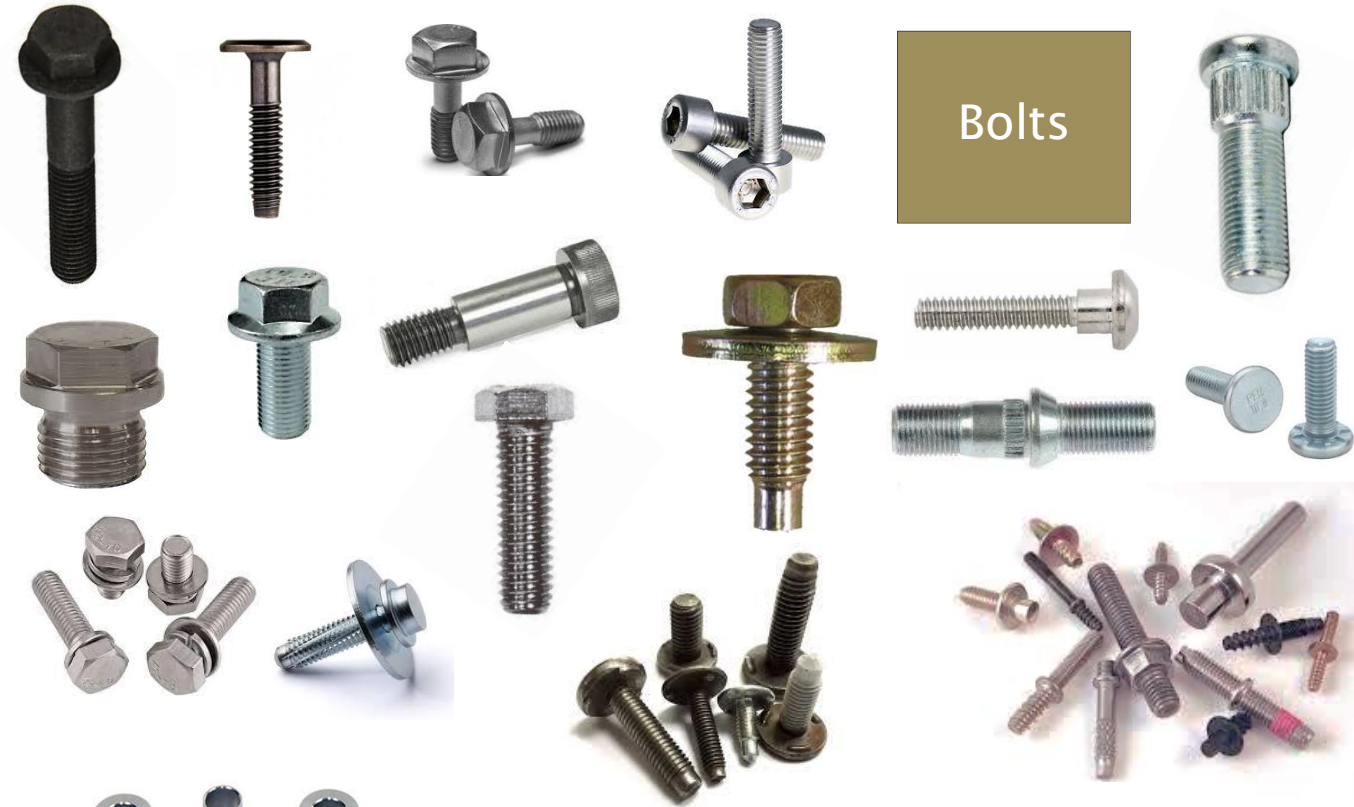
Available: Gentle part handling
bucket elevator hopper



Available: Automatic Packaging System

HALO: PERFECT APPLICATIONS

Bolts



Turned Parts



Rivets



Studs

Screws





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