

PHARMASCAN™ ECHO

LOW VOLUME ROBOTIC VISUAL INSPECTION PLATFORM

ROBOTIC PRECISION, HUMAN-LIKE HANDLING, UP TO 20 PPM

Built on ATS visual inspection expertise, PharmaScan™ Echo is the latest addition to the PharmaScan Series of advanced visual inspection systems. This flexible robotic platform uses programmable six-axis handling to present product to inspection cameras through movements inspired by manual inspection techniques.

This latest innovation from the ATS Visual Inspection Center of Excellence provides a new option for lower-volume pharmaceutical applications requiring flexibility, smaller footprint, and reduced operator dependency. Appropriate for preclinical, laboratory, ADCs, Radioligands, CAR-T and cell gene therapy handling of high-value/ specialty drugs.

Where smaller batches don't justify full high-speed systems, the PharmaScan Echo offers a flexible low-volume semiautomated vision inspection replacement for clinical trials, personalized medicine, and second pass reinspection of rejects.



Ideal for:

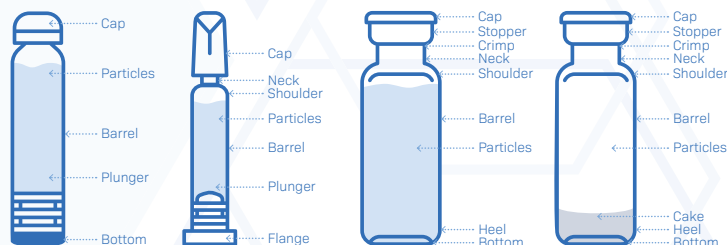
- Transitioning from manual or semi-automated inspection
- Lower volume / small batch applications in clinical settings
- Secondary inspection of rejects from high-speed lines
- Programmable robotic handling for vials, syringes, and cartridges
- Lower-volume pharmaceutical applications, reducing labor-intensive inspections

ATS PHARMASCAN™ ECHO PLATFORM ADVANTAGE

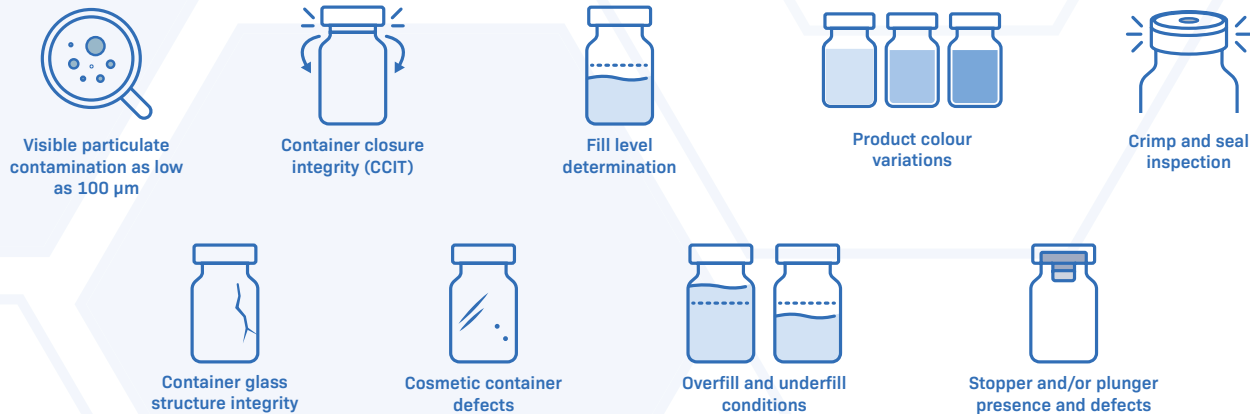
Human-like robotic handling scaled for low-volume inspection of high-value drugs and biologics in prefilled syringes, vials, and cartridges. High-accuracy inspection of containers and injectable medicines in liquid or lyophilized (lyo) form, helping detect critical defects before products reach the market.

TYPICAL RATE UP TO 20 PPM

- Single pass inspection
- Standalone or in-line
- Hardware agnostic



Built to meet stringent pharmaceutical standards, PharmaScan Echo inspects a wide range of quality attributes including:



SINGLE-PASS AUTOMATED VISUAL INSPECTION USING ATS SMARTVISION SOFTWARE PLATFORM

- Open inspection development environment for continuous detection rate improvement and support for new products
- Developed algorithms are deployable on all ATS PharmaScan platforms
- AI model usage and development available for highly variable defect conditions
- High-resolution image capture and archiving of 100% of images

WHAT CHANGES WITH ROBOTICS:

- Six-axis robotic handling approximates human-style product presentation to inspection cameras
- Easy reprogramming for product-specific movements
- AI-ready architecture for evolving defect detection
- Small footprint for standalone or secondary inspection use
- Optional automated feeding systems allow for continuous processes

AUTOMATION IS EVOLVING. INSPECTION SHOULD, TOO

Echo is the latest innovation from our vision specialists - a new member of the ATS PharmaScan Series of automated inspection platforms. Speak with an expert about flexible robotic inspection for lower-volume applications.



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