

# ATS Automation Lyoscan™ Inspection System



Up to 425 ppm

2-30mL glass vial sizes

40 quality inspections

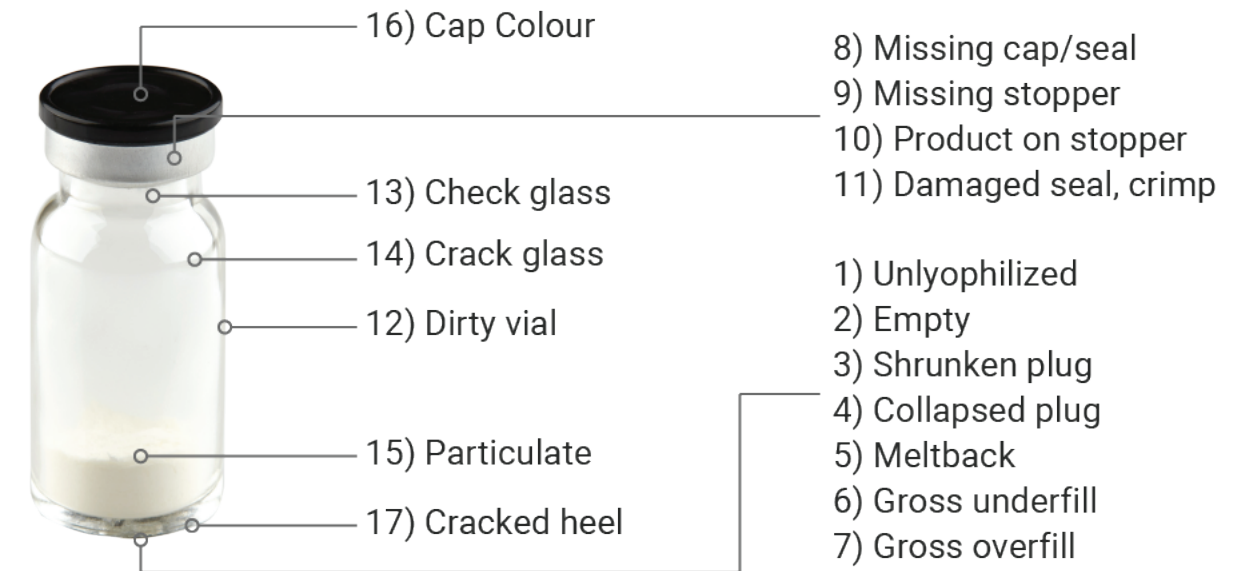
High-speed inspection of  
lyophilized products like  
vaccines



LIFE SCIENCES

## Key Features

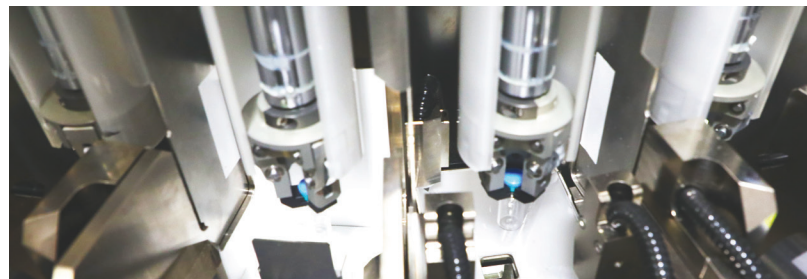
- Inspection rates up to 425 ppm
- Change tooling to accommodate different vial sizes
- Stand-alone or integrated operation capable
- Process analytics to quickly identify and trend faults
- Sorting and segregating of vials based on inspection outcomes



## Precise inspection designed specifically to minimize false reject rates while maintaining product flexibility

The appearance of freeze dried products can vary which complicates accurate inspection decisions and adversely impacts output. ATS Automation with input from industry experts has developed an inspection system to ensure that robust and comprehensive inspections are conducted with reduced false rejects.

ATS Automation's Lyoscan system executes approximately 40 vision inspections utilizing 28 cameras to appropriately assess the stopper, cap and body features of each vial, as well as the integrity of the lyophilized cake contained within the vial. Quick change tooling provides system flexibility so that glass vials from 2-30mL in size can be accommodated. Manual and automated vial infeed and outfeed options are available to suit different manufacturing needs.



## Core vision technology designed for demanding inspections

The heart of a Lyoscan system is the ATS Cortex™ vision system and the ATS SmartVision™ software. The ATS SmartVision software coordinates and controls more than 28 digital cameras and lighting systems, and is optimized to provide comprehensive and adaptive inspection of the glass vials and their lyophilized contents.

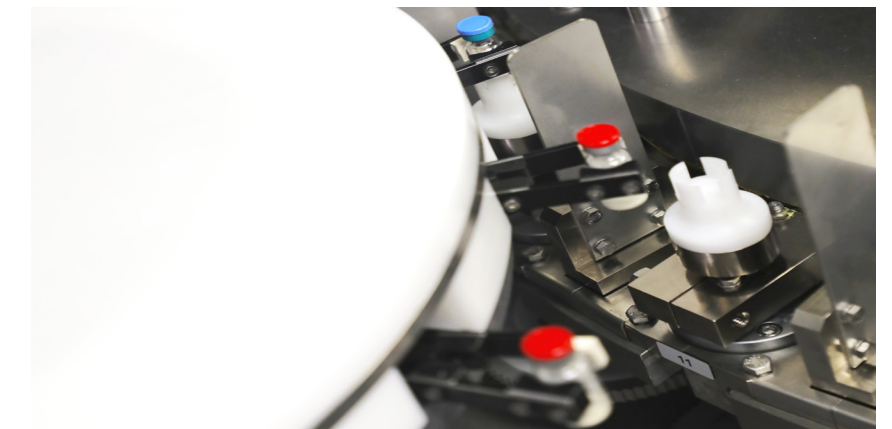
The ATS SmartVision software is open, thus allowing adjustment by the user for continuous machine inspection improvement. ATS Automation also has vision experts available to provide on-site, on-line and over-the-phone support as you refine your inspection needs in your manufacturing setting.

## Advanced technology for compliant manufacturing

Lyoscan was designed for life sciences manufacturers and their demanding regulatory environments. Each vial has a detailed and complete product image history. This allows for complete batch traceability as well as compliance to 21 CFR Part 11 for data handling and record archiving.

The cam-synchronized and controlled motion manages vial accelerations and velocities without sacrificing throughput. This helps to minimize disturbance of the lyophilized cake.

Each vial is carefully and precisely handled. This reduces the likelihood of vial damage occurring while within the Lyoscan system.



# ATS Automation's Lyoscan™ Inspection System

## Technical Specs

Length	4.2m
Width:	2.1m
Height:	2.7m
Part Rate:	Up to 425 ppm
Communication:	Ethernet/IP and TCP/IP: image transfer backbone 10Gb
Touchscreen HMI:	Large 21.5" With ATS Toolkit Reporting
Vision System:	ATS Cortex vision and SmartVision software
Vision Display:	27" 4K
Power:	208/120V 15KVA
Options:	<ul style="list-style-type: none"><li>• Change-over technology for range of vial sizes: 2mL - 30mL</li><li>• Vial infeed and outfeed solutions including accumulation tables, integrated conveyors, and more</li></ul>

From **liquids** to **solids**, from **component** to **finished product**, **inspection** and **classification** is an essential aspect of **quality control** and assurance for medical devices, diagnostics and pharmaceuticals.

For all your inspection needs, contact us at:

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

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