

vial.inspect



In pharmaceutical production, every detail counts. Even the smallest impurities or deviations can jeopardize patient safety.

The **vial.inspect** series of inspection systems offers a tailor-made solution for the vial filling process – reliable, efficient, and compliant with regulations.

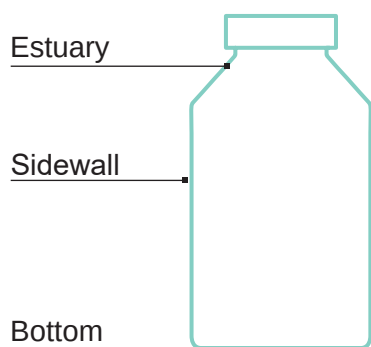
100% inspection of vials

The systems inspect vials both before filling and after filling and sealing. This allows contaminated, damaged, or incorrectly sealed vials to be reliably detected and automatically ejected. With a speed of up to 600 vials per minute, the systems are optimally tailored to modern high-performance production.

All systems are 21 CFR Part 11 and EU GMP compliant and can be seamlessly integrated. OCTUM combines precise image processing technology with robust system architecture and individual customizability.



100% inspection **before** filling vials



- ✓ ISO glass bottles with an opening of 13-32 mm
- ✓ In a stainless steel housing
- ✓ Modularly expandable
- ✓ User management and audit trails
- ✓ Up to 600 vial tests per minute
- ✓ 21 CFR Part 11 and EU-GMP compliant
- ✓ Connection to business intelligence
- ✓ Fast and flexible setup

empty glass inspection

Before filling vials with medicines and vaccines, they must be checked to ensure they are in proper condition.

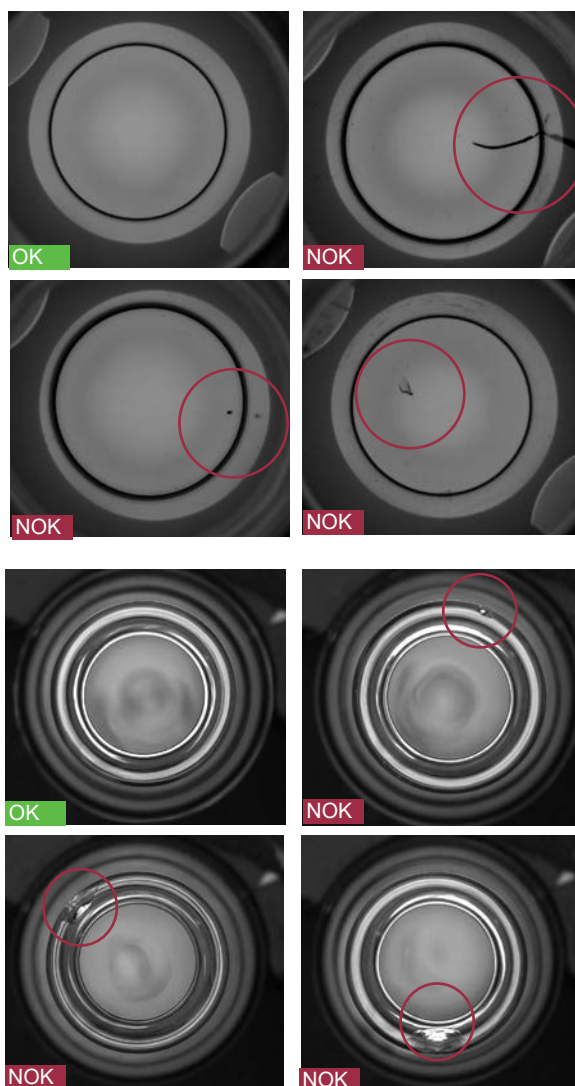
vial.inspect - systems inspect bottle bottoms and bottle necks for damage, foreign objects, and contamination.

The inspection can be integrated into both the filling system and the isolator, on the linear conveyor or on the star wheel.

*Optionally also for sloping muzzle surfaces

**Optionally also for testing UV ink

Estuary inspection*



Quality assurance **after** filling vials

To protect against contamination, it is essential to check after filling that the bottle stopper is tight and the crimp cap has been closed properly. The verification of variable print data, such as batch numbers, also enables complete identification and traceability of the drugs.

The **vial.inspect** series inspection systems check 100% of vials after filling at a machine cycle rate of up to 600 Vials per minute.

Other applications: Sidewall inspection, roundness of crimp caps, lyophilized cake, stopper detection, and much more.

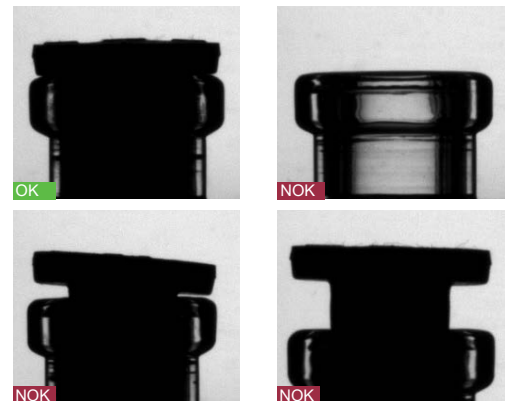
Stopper position inspection



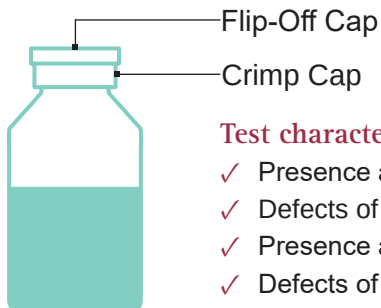
Stopper

Test characteristics

- ✓ Presence of the stopper
- ✓ Correct position of the stopper
- ✓ Gap between stopper and bottle



Crimp caps inspection

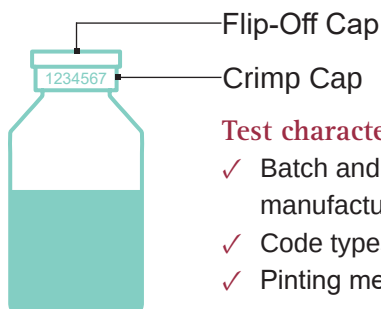


Test characteristics

- ✓ Presence and Quality of the crimping
- ✓ Defects of the crimp cap
- ✓ Presence and color of the flip-off cap
- ✓ Defects of the flip-off cap



Print Verification



Test characteristics

- ✓ Batch and serial numbers, date of manufacture and expiration date
- ✓ Code types: All common 1D and 2D codes
- ✓ Printing methods: Laser and Inkjet**





Since 1996 OCTUM GmbH has been developing and distributing system solutions for the optical quality control of products and manufacturing processes worldwide. The company produces image processing solutions for the detection and inspection of a wide variety of parts for the pharmaceutical and medical technology, packaging technology, automotive, and other target industries.

OCTUM develops and implements customized image processing solutions based on globally available and proven technologies. A competent, flexible, and dedicated team innovatively translates customer requirements into reliable solutions.

OCTUM is a reliable partner whose expertise you too can benefit from. Depending on customer requirements, we supply image processing solutions or complete solutions in collaboration with our partner companies. With more than 6,000 production-reliable, installed system solutions, OCTUM is one of the most successful providers in the industry.



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