

syringe.inspect



Whether for assembly, filling, sealing, or packaging processes, inspection systems from the **syringe.inspect** series are the ideal solution for automated quality assurance in syringe manufacturing. The systems are specially designed to meet the high demands of the production process and enable reliable rejection of syringes and components that do not meet the required quality standards.

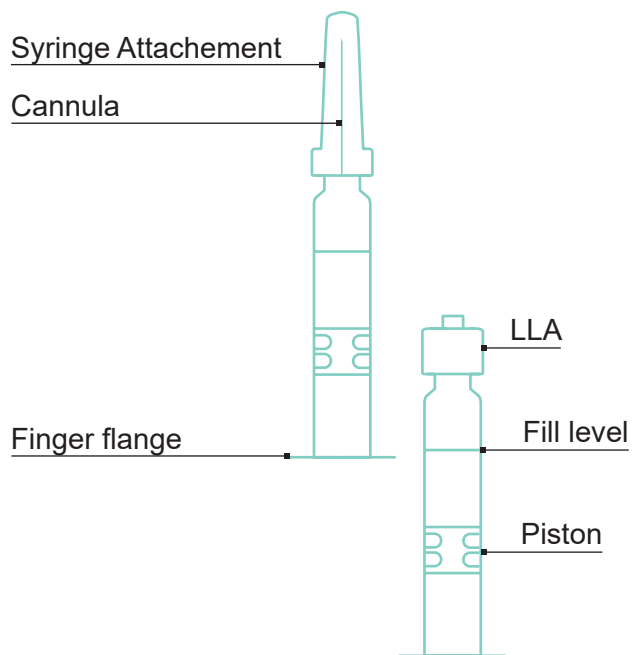
100% Inspection of Syringes

syringe.inspect - Ssystems are suitable for quality assurance in the production of glass and plastic syringes – on high-performance machines with up to 600 syringes per minute. They can be expanded with additional inspections in a modular fashion and are visualized centrally on a control and parameterization interface. Designed to comply with the legal regulations of 21 CFR Part 11 (USA) and EU-GMP (EU), **syringe.inspect** offers maximum safety for the production of syringes of the highest quality.

*also suitable for random sampling



Quality Assurance of Syringes

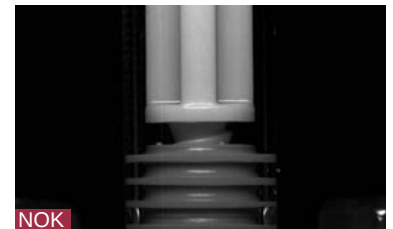
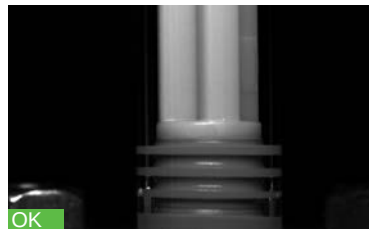


- ✓ Assembly, geometry, and surface inspection
- ✓ Completeness and printing check
- ✓ Glass and plastic syringes
- ✓ Pre-filled syringes
- ✓ Up to 600/min
- ✓ Fully automated
- ✓ Stainless steel design
- ✓ 21 CFR Part 11 and EU-GMP

Piston Rod Assembly Test

Testing Criteria

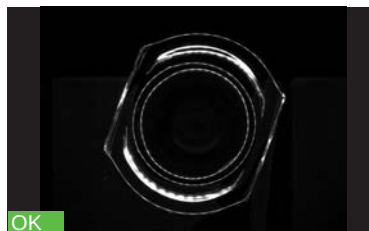
- ✓ Screw-in depth of the rod into the plug



Inspection of the Finger Flange

Test Criteria

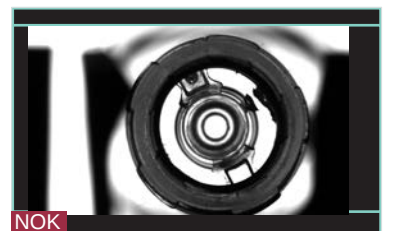
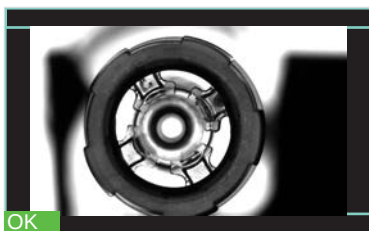
- ✓ Damages
- ✓ Chipping



LLA Wing Control

Test Criteria

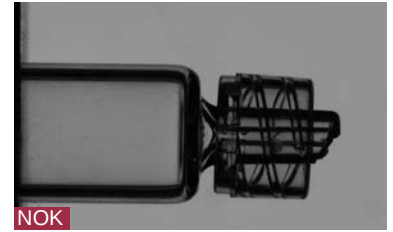
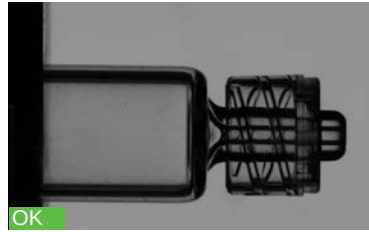
- ✓ Damage of the wings



LLA Assembly Inspection

Test Criteria

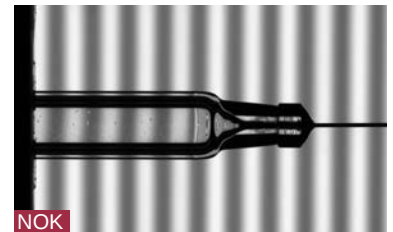
- ✓ Faulty assembly
- ✓ Orientierung,
- ✓ Breakages



Siliconisation

Testing Criteria

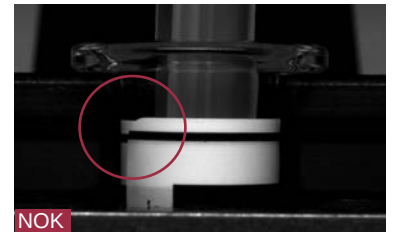
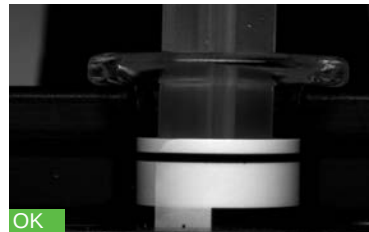
- ✓ Uniformity
- ✓ Presence



Label Position Inspection on Syringe

Testing Criteria

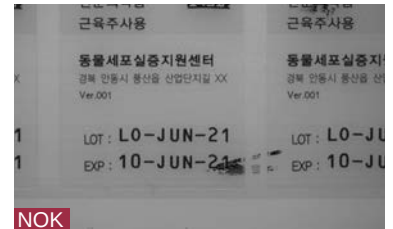
- ✓ Position
- ✓ Angle



Print Inspection on Syringe/Label

Testing Criteria

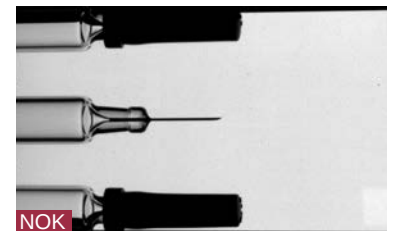
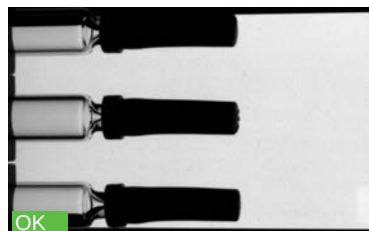
- ✓ Verification of variable Data
- ✓ Verification of codes
- ✓ Verification of plain text



Assembly Inspection

Testing Criteria

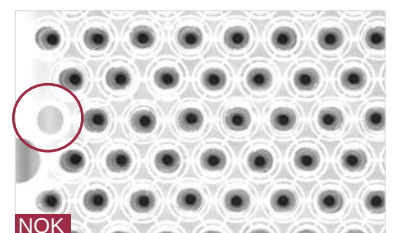
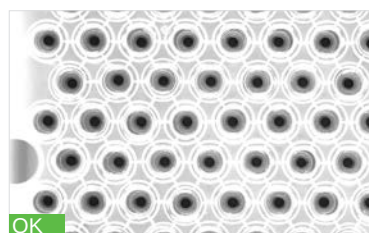
- ✓ Final inspection of the syringe attachments before packaging



Completeness Inspection

Testing Criteria

- ✓ Inspection of the correct number of syringes in the tray (nest)





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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