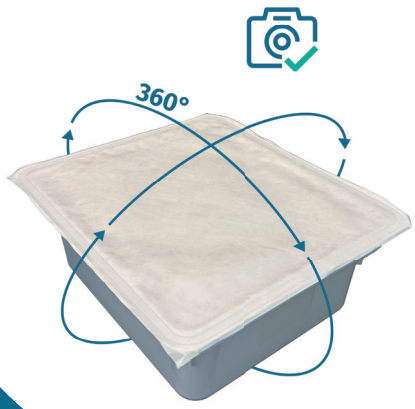
STERISYS
Engineering for Life

FlexyBot Tub Inspection

ensures the 360° integrity of tubs.



At **STERISYS**, we recognize the importance of **visual inspection** in upholding stringent quality standards in pharmaceutical technology. Our automated systems ensure the **integrity of tubs with Tyvek® lids**, helping clients maintain seamless production and comply with regulations.

FlexyBot Tub Inspection is an advanced system designed to guarantee top-quality pharmaceutical production. Using **state-of-the-art hardware and software**, it delivers **precise and reliable test results**.

EFFICIENCY

Faster and more consistent inspection and measurement **reduce human errors**. They also **minimize resource usage** and **enhance operational efficiency**.

Additionally, minimizing product waste helps lower overall production costs. Streamlined testing processes accelerate production cycles. This results in **higher output and more reliable production**.

QUALITY

Advanced image processing algorithms and real-time monitoring **minimize damages** and **enhance reliability**.

Maintaining the integrity of Tyvek® lids and the condition of tubs upholds **high production standards**. This further ensures the **highest product quality**.

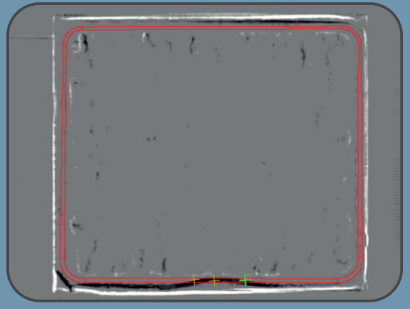
COMPLIANCE

Reliable documentation provides tracebility, ensuring **detailed monitoring and recording** of automated handling processes.

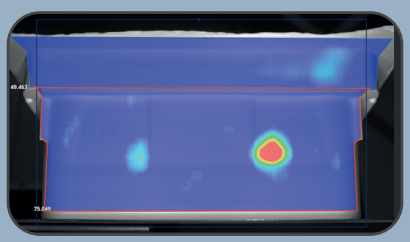
This approach ensures **regulatory compliance**, while meeting quality standards and guidelines, such as EU GMP Annex 1.

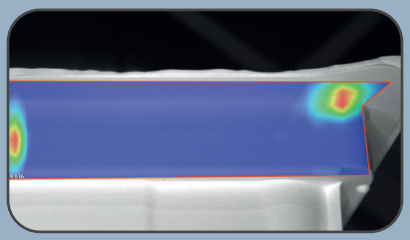
EXAMPLES

Faults detected in the sealing

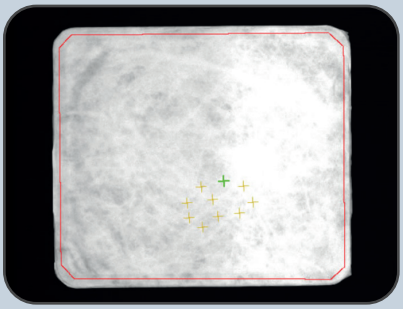


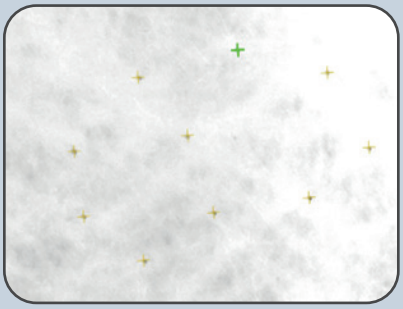
Damages detected on the sides





Holes detected in the Tyvek® lid





THE FLEXYBOT TUB INSPECTION SYSTEM IS COMPOSED BY:

HIGH RESOLUTION CAMERAS

- **1x 21 Mega-pixel camera** with an in-house camera control system for detecting potential defects, such as holes or scratches, on the top of the tubs (Tyvek® lid).
- **5x 15 Mega-pixel smart camera systems** to inspect potential defects, such as cracks on the sides and bottom of the tubs.

ADVANCED SOFTWARE

- **Customizable User Interface:** Customize the software interface to specific user needs and preferences, enhancing operational efficiency.
- **Real-Time Monitoring:** Continuous inspection with instant feedback to ensure immediate detection and resolution of issues.
- **Detailed Reporting:** Comprehensive documentation and traceability of all inspection processes, ensuring regulatory compliance.
- **Integration Capabilities:** Seamlessly integrate with existing production systems and databases for streamlined operations.

SPECIFICATIONS

- Throughput up to 6 tubs/min
- Inline visual test
- Adjustable production parameters
- Multiple recipes for different tub types
- CE marked
- Adjustable gripping solution (optional)
- 360° inspection
- Nondestructive process
- Quantitative results
- Compatible with most cleaning agents
- Audit trail CFR 21 part 11 (optional)
- Data export on server (optional)

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