WILCOMAT® VISION
Automated Visual Inspection

WILCOMAT® VISION for cosmetic defects and particle detection in clear liquids and lyo products.

Latest camera technology combined with sophisticated image recognition and processing technology, allows for reliable particle detection and cosmetic inspection.

The WILCOMAT® VISION performs inspection of pharmaceutical containers such as vials, ampoules, cartridges and syringes.

Key Benefits

• Static optical path – No movement of lights or cameras
• Wash-down design for easy cleanability
• Image subtraction method for particle inspection – Elimination of static disturbance
• High detection rates at inspection speeds of up to 600 samples per minute
• Automatic re-inspection of parameter driven defects to reduce false rejects

Additional important Features

• 8 inspection stations using latest camera technology
• Multiple camera stations and spinning profiles for different particle characteristics
• Smooth and gentle product handling to reduce surface contact and bubble generation
• Reduced number of guiding elements and change parts allowing for quick changeover
• Compact design with excellent accessibility
• USB and Ethernet connections (data export, printer)
• Complete validation documentation available
• Separation of good product, sampling and reject groups
• Recognition/verification of printing and coding (OCR/OCV)
• Combination possibilities with other inspection technologies such as head space analysis (HSA) and leak detection.
Example of Particulates Detection

Particle Inspection in Syringes
Zoom to Particle (Fiber 300µm)

Mode of Operation
Cosmetic inspection stations provide container rotation for 360° inspection, checking for cracks, scratches and incrustation. Particulates detection using image subtraction eliminates static disturbance. Multiple images used for particle detection by individual camera stations and spinning profiles for different particle characteristics (floating, on surface, heavy particles). Additional camera stations allow for inspection cases such as geometric measurements and detection of discoloration.

Further Applications / Technologies of WILCO Systems

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Wilco AG is an innovative and reliable partner with more than 40 years of experience in quality assurance technologies and providing a worldwide support and a distribution network.

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SWISS PRECISION

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