

New Technology Modules for Seidenader Inspection Machines

To compliment automatic inspection machines, Seidenader R&D group continuously reviews technologies which can provide additional product information at the point of final quality control. A variety of technologies can now be integrated as robust production modules into the family of Seidenader automatic inspection machines to verify product quality, container and closure integrity, and to prevent product cross contamination in one single machine.

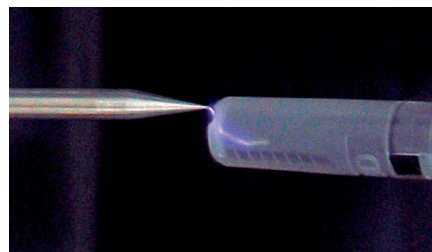
Seidenader Vial-HV

As an integrated module to ensure container integrity, the Seidenader Vial-HV module uses high voltage to detect cracks and improper closures.



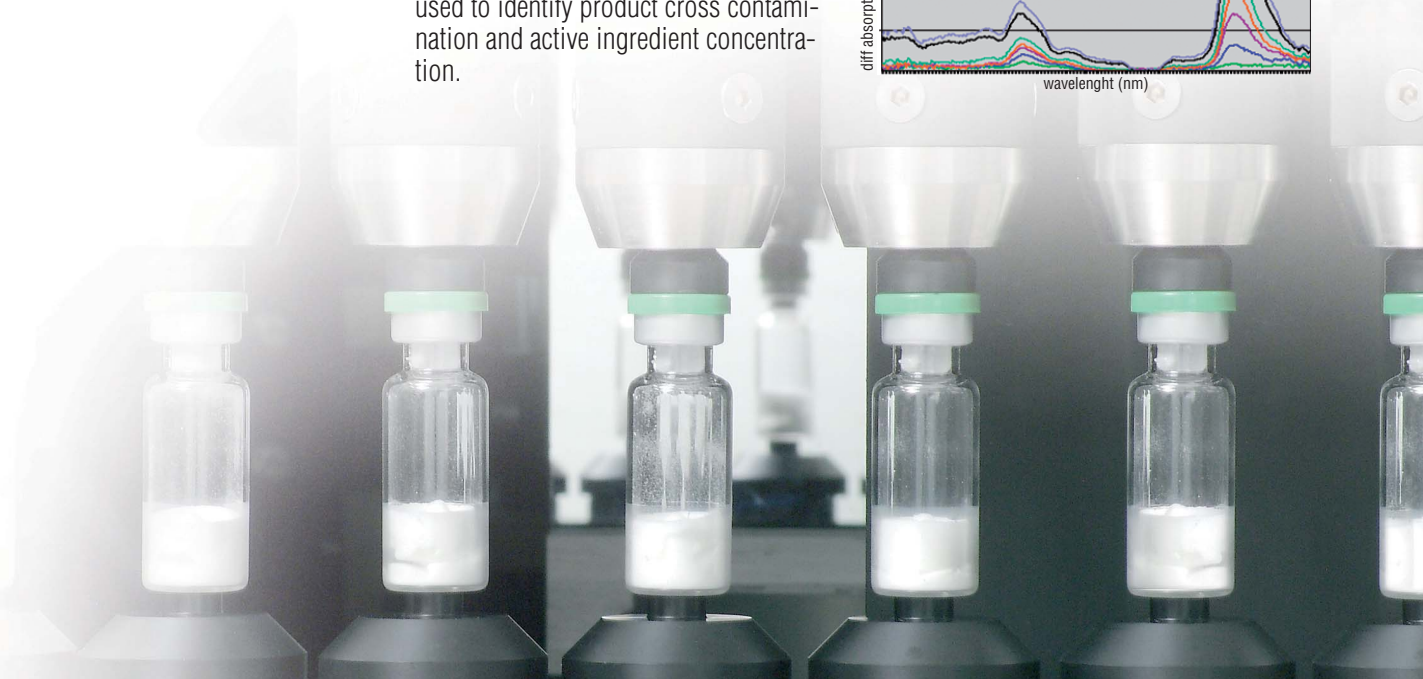
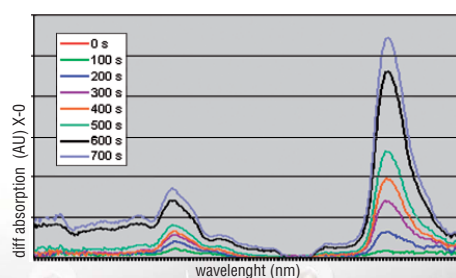
Seidenader Syringe-HV

Syringe needles penetrating their rubber shield are a danger for medical staff (risk of injury) as well as a threat to patients (lack of sterility of needle and product). The Seidenader Syringe-HV module uses high voltage technology to identify pierced needle covers even if they are not visible through a rigid plastic shield.



Seidenader S-NIR

The Seidenader S-NIR module is designed to verify the levels of residual moisture in freeze dried products using near infrared spectroscopy. It can also be used to identify product cross contamination and active ingredient concentration.





New Technology Modules

The Seidenader X-ray modules are perfectly shielded for product and operational protection. The radiation dose required

for cap / lyo / syringe inspection is typically in the range of some 10 μ Sv.

Seidenader Cap-X

The Seidenader Cap-X station verifies the proper positioning of stoppers after the crimping process. X-ray technology is used to acquire images from 2 sides to verify presence and proper seal after capping – an ideal inspection tool to comply with **Annex 1** requirements.



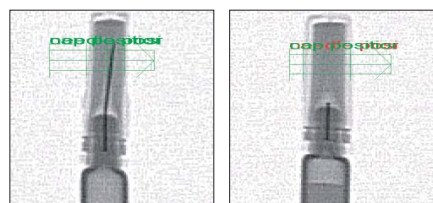
Seidenader Lyo-X

High resolution X-ray technology to detect particles inside lyophilized products. Glass fragments, metal chips and other dense materials embedded in the freeze dried cake can be detected reliably.



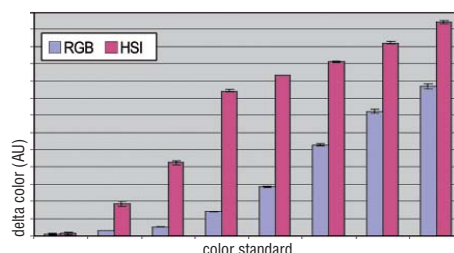
Seidenader Syringe-X

Syringe needle geometry, missing needles, bent needles or broken needles are detected by an X-ray image which verifies the needle position and shape through the rubber and plastic covers.



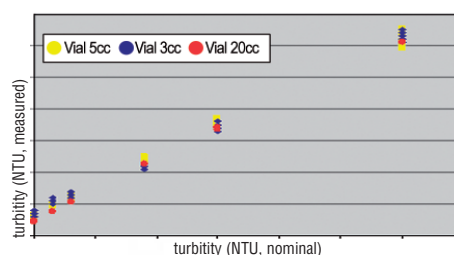
Seidenader S-Color

Product color can be a measure of product quality, an indicator for product mix-up or for process deviations. The S-Color system allows to verify product color differences beyond the human visible range.



Seidenader S-Turb

Media fills, protein based products, insulin, vaccines can be inspected for acceptable turbidity ranges using the Seidenader S-Turb module to identify product concentration or product contamination within very narrow bands, as low as 6 NTU.



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Since we are constantly working on the improvement of our high-quality machines, the texts, illustrations and figures on these pages are illustrated only and not binding.

