

Glass Inspect



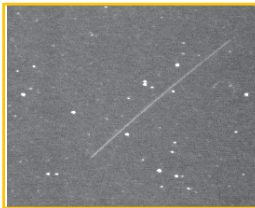
Modular Inspection and Measurement Solution for Display Glass



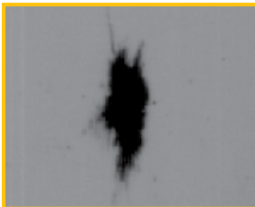
GlassInspect for display glass is capable of inspecting all glass types involved in the manufacturing and processing of flat panel glass, including raw glass (float or down draw glass), bare glass sheets and coated display glass. This makes GlassInspect the optimal inspection solution for all manufacturers and processors of TFT, LCD and PDP glass.

GlassInspect is a modular optical system with high-resolution line scan cameras. A variety of resolution ranges is provided in order to accommodate customer specific manufacturing and inspection requirements.

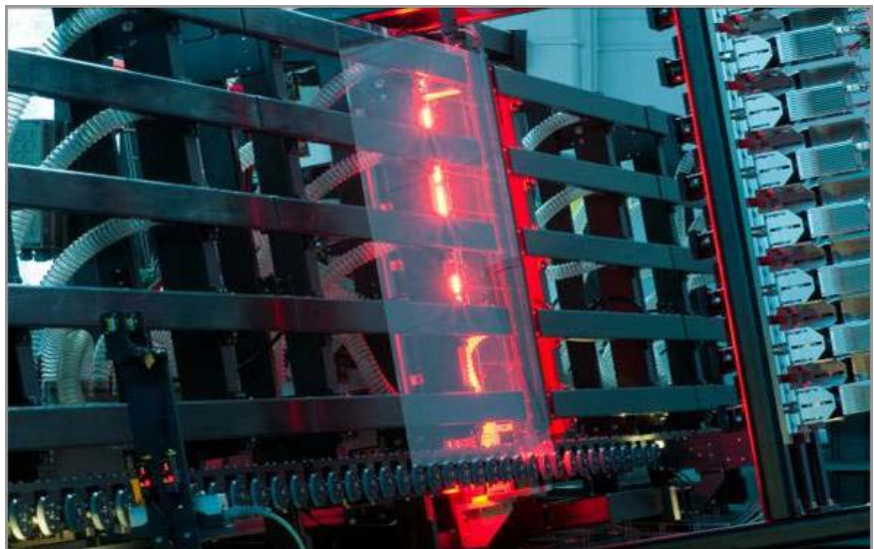
Typical Defects in the Production of Display Glass



Scratch



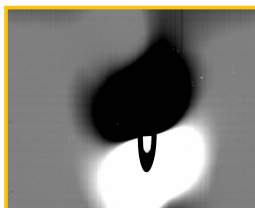
Inclusion



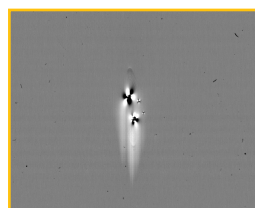
Vertical Inspection Line with Air Cushion



Glass Chip



Bubble

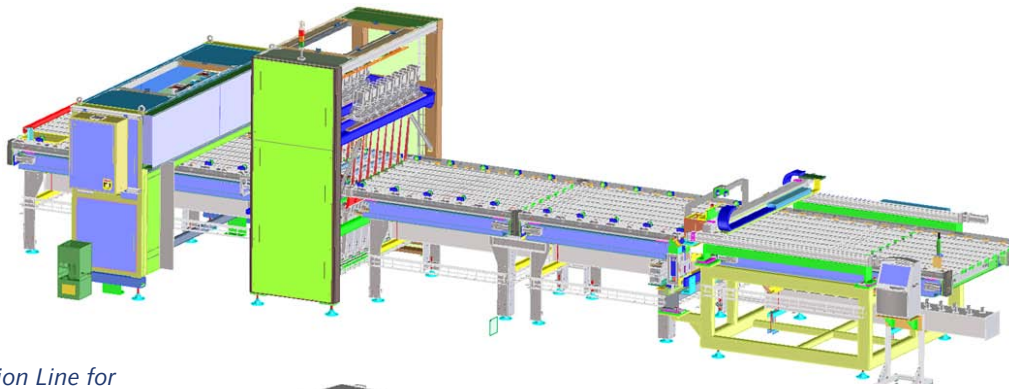


Stone



ITO-Burn

Display Glass



Inspection Line for Display Glass (Top) and Inspection Line in Clean Room Setting (Bottom)



KEY FEATURES

- High-speed camera with up to 320 MHz and 70.000 Hz line frequency and dual-line CMOS sensor (TDI); highly dynamic grey scale image @ 4096 grey level (12 bit)
- Twin-line illuminations to switch between different wavelengths (red, blue, white, infrared etc.) and optical setups
- Highest resolution - up to 10 μm
- Superior differentiation between glass defects and surface contaminations ("pseudo defects")
- Inspection of glass sheet edges, including measurement of edge conditions and corner cut dimensions
- Defect Depth Location Measurement - a special optical set-up with two channels determines a defect's position on the bottom, top side or inside of the glass



About Dr. Schenk

Dr. Schenk GmbH, established in 1985, is a globally active, innovative high-tech company based in Munich, Germany. For the third decade now Dr. Schenk offers comprehensive solutions for automated quality assurance and production process monitoring for the solar, flat glass, film and foil, converting, optical media and semiconductor industries.

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