



Float glass: Edge Detector

Float glass: Edge Detector

A novel development by
GRENZEBACH Algoscan.

Scope of Application:

Typical Inspection systems detect all surface defects on the glass, but ignore the edges of the material. So an additional sensor is needed to see all defects on the glass edges.

Functionality:

A. The glass runs defined on the conveyor through the Edge detector, where one or two sides of the glass are inspected.

B. A robot handles the glass and all edges are inspected.

Architecture:

A CCD- Camera with an intelligent LED- Illumination and a mirror cabinet see the edge defects. This information is processed in a high speed evaluation system for further use in the production.

Benefits of this inline application:

The automatic edge inspection is essential for each glass production, as a constant high quality is needed for a maximum yield of the production itself and for the quality of the final product.

Float glass: Edge Detector

Applications: Float glass, Solar glass, Laminated Glass, Displays, Automotive glass

Number / Kind of Inspection Edges: 1 – 4 / K- and C- Shape

Material speed: max. 60m/min

Material thickness: 1 – 16mm

Optics: CCD- Camera with LED- Illumination in Reflection

Optical resolution: 60µm

Detected defects: Edge chips, Edge cracks, Grinding defects, Scratches, Bevel defects, Misaligned laminated glass panels, Lamination defects

Defect Classification: Automatic

Sensor dimensions (LxWxH): ~450x100x80mm

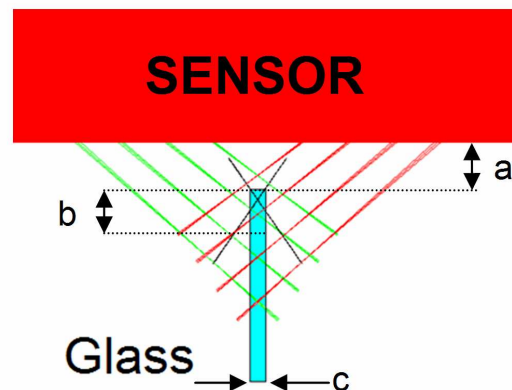
Splash prove - IP 54

Weight: 7kg

Working distance (a): 18mm See Sketch.

Inspection range (b): Up to 21mm (depends on thickness)

Glass thickness (c): 1mm – 18mm



GRENZEBACH Maschinenbau GmbH
Albanusstrasse 1 – 3, Hamlar
88663 Asbach- Bäumenheim, Germany
Phone: +49 (0)906/982-0
Fax: +49 (0)906/982-2108
e-mail: info@grenzebach.com

GRENZEBACH Algoscan GmbH
Machtlfinger Straße 21
D-81379 München
Phone: +49 (0) 89 748558-0
Fax: +49 (0) 89 748558-599
E-Mail: welcome@algoscan.com

www.grenzebach.com

Technical changes reserved