
Release: No. 724, October 23, 2018

Contact: Britta Becker

E-Mail: bbecker@isravision.com

Phone: +49 (2366) 9300-241

Inline inspection of automotive glass achieves long-term cost benefits and saves resources

Guaranteeing maximum quality in windshields: Saving costs with automatic optical inspection

Compared to the ready-to-install product, the raw material for automotive glass is relatively low-priced. The costs associated with high quality are only incurred during bending, printing and other steps. This makes the economic damage caused when defective raw glass panes are processed all the more far-reaching. Using an innovative lighting concept, a system specifically tailored for the inspection of automotive glass reliably detects and classifies all glass defects – and recognizes even the tiniest material defects thanks to best-in-class scratch detection.

Inspection after cutting and grinding helps suppliers of vehicle glass – and windshields in particular – attain optimum quality. The POWERPLATE Inspect Automotive system from ISRA VISION is designed specifically for the high quality requirements in automotive manufacturing. The inspection solution can be used for various glass colors and types as well as all common glass forms. Moreover, because the system detects the form of the window to be inspected fully automatically, there is no longer any need for spending valuable time to set up the system.

ISRA VISION AG
Industriestraße 14
64297 Darmstadt
Germany
Tel. : +49 (6151) 948-0
Fax: +49 (6151) 948-140
info@isravision.com



Release: No. 724, October 23, 2018

Contact: Britta Becker

E-Mail: bbecker@isravision.com

Phone: +49 (2366) 9300-241

Cross dark field lighting for increased sensitivity

A combination of the cross and off-axis dark field methods enables lighting from all sides and thus the detection of scratches, small bubbles, and defects at the edges – allowing POWERPLATE Inspect Automotive to capture even the tiniest defects. The system has numerous camera modules in order to inspect the entire surface of a glass pane. Their high depth of focus gives camera-based systems a great advantage over CIS technologies. This enables the reliable detection of surface defects on the top and bottom of the pane while at the same time checking it for inclusions. Comparable CIS systems often only fulfill one of these inspection tasks.

Digital assistants for ease of use and fast effectiveness

POWERPLATE Inspect Automotive's automatic free-form recognition is easy to use without any time-consuming conversion labor. It enables fast inspection of various types of automotive glass – from windshields and sidelights to rear lights and sunroofs. The integrated classification system automatically recognizes all detected defect types and establishes the degree of severity. Using the gathered information, POWERPLATE Inspect Automotive immediately classifies the quality of the raw glass components inspected. What is more, because it uses definable parameters, users are given an objective quality criterion which is independent of individual assessments. The production analytics tool makes all the data available for analysis and process optimization measures.

ISRA offers the right inspection and measurement solution for every stage of automotive glass production. In addition to POWERPLATE In-

ISRA VISION AG
Industriestraße 14
64297 Darmstadt
Germany
Tel. : +49 (6151) 948-0
Fax: +49 (6151) 948-140
info@isravision.com



Release: No. 724, October 23, 2018

Contact: Britta Becker

E-Mail: bbecker@isravision.com

Phone: +49 (2366) 9300-241

spect Automotive, these include SCREENSCAN Reflected Distortion, which now enables completely objective 3D inline inspection of automotive glass for the first time thanks to 3D measurement of reflection optics – delivering the quality needed for new technologies such as head-up displays.

Images



724_1.jpg

Inspection after cutting and grinding helps suppliers of vehicle glass – and windshields in particular – attain optimum quality.

ISRA VISION AG
Industriestraße 14
64297 Darmstadt
Germany
Tel.: +49 (6151) 948-0
Fax: +49 (6151) 948-140
info@isravision.com

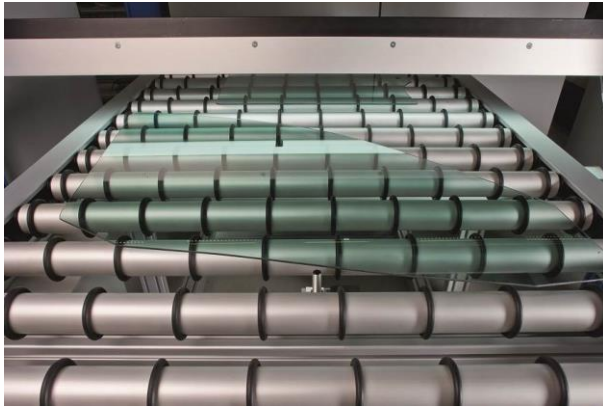


Release: No. 724, October 23, 2018

Contact: Britta Becker

E-Mail: bbecker@isravision.com

Phone: +49 (2366) 9300-241



724_2.jpg

Designed especially to meet the high quality requirements in automotive manufacturing – the **POWERPLATE Inspect Automotive** system from ISRA VISION.



724_3.jpg

Best-in-class scratch detection for even the finest material defects: A system tailored specifically for the inspection of automotive glass reliably detects and classifies all glass defects.

ISRA VISION AG
Industriestraße 14
64297 Darmstadt
Germany
Tel. : +49 (6151) 948-0
Fax: +49 (6151) 948-140
info@isravision.com