Quality Inspection of Flat Glass

Two new measuring stations from Micro-Epsilon are being used to inspect the dimensional accuracy and edge quality of flat glass at Schott based in Jena. Dimensional accuracy is a critical factor in industrial glass, which is used for demanding technical tasks. An example of this is glass used in the production of photovoltaic modules. Even a small deviation from the required geometry or thickness of the glass can adversely affect the function of the glass at a later date. In the production line, a robot places the pane on a transport system, which feeds the pane into the measuring station. Six optoNCDT 2401 confocal chromatic sensors are located on a traversing beam directly above the pane, which measure the thickness and planarity in six tracks. The desired distance or thickness information for the confocal principle is obtained from polychromatic white light.

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- Firmen Homepage