



ColourBrain®

Automatic optical surface inspection, control of edges, measurement and process monitoring

ColourBrain®

Automatic inspection in the furniture industry



Highlights:

- Double-sided inspection of surfaces
- Complete scanning of edges
- In-line measurement of dimensions
- Standardized quality of sorting

Your benefit

In the production line, all furniture elements are checked in-line for smallest defects, any edge shapes are scanned and dimensions as well as angle accuracy are measured.

The sorting process is performed automatically and according to standardized quality rules, without excessive sorting and without missing defects.

The camera systems continuously monitor the quality of products, detect variations and trigger alarms when an increase in the number of defects is detected.

The inspection system automatically adapts the quality and decor parameters in case of a production change. It also protocols the quality of each shift, each product and each production volume 24 hours a day and 7 days a week.



Application

The automatic optical inspection systems are integrated in production lines for furniture and kitchen elements.

With the help of different camera and light modules, the systems can be adapted to any surface or edge lamination. Variations and defects are automatically detected; defective elements are then marked and sorted out.

The systems are connected to each other so that the quality of products can be analyzed at any time by the quality control or production management department which can then take measures to optimize the production when the number of defects increases.

ColourBrain® inspection modules for the defect detection and process monitoring

ColourBrain® Furniture

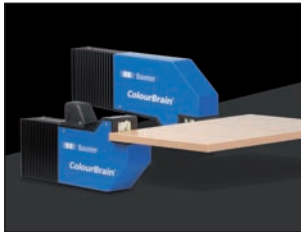
Automatic inspection of furniture elements, lamination and varnishing.

One- or double-sided inspection of surfaces.

Camera modules for the detection of defective or damaged areas in lamination.

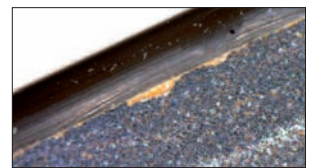


ColourBrain® Edge

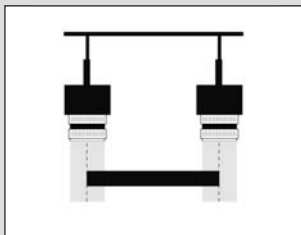


Cameras with integrated illumination for the inspection of edges.

Automatic check of edgeband and softforming edges, veneered or laminated edges.



ColourBrain® OutLine



Measurement of dimensions.

Measurement of width and length with a precision of ± 0.2 mm.

Measurement of orthogonality with a precision of ± 0.2 mm.

Measuring accuracy is independent of the board's format, thickness or decor.



More information on www.baumerinspection.com

Baumer

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