

ColourBrain[®] Edge

Automatic optical inspection
of edges and process monitoring



Highlights

- 100% control at batchsize one
- Scanning the whole edge
- Small and compact camera modules for all edgebanders
- Process control and standardized grading rules

ColourBrain® Edge – Focus on the edge

Automatic optical inspection and process control

Your benefits

In the production line the edges of all furniture elements are checked in-line for smallest defects, any shape and scanning from topside around the whole edge.

During batch size one production the *ColourBrain*® camera systems inspects every edge and notifies the production control immediately, if a defect was detected so the damaged part can automatically be reproduced without delaying the delivery time. The sorting is done automatically according to standard grading rules, to avoid over sorting but also without overlooking any defect. And that with a speed up to 150m/min.

Baumer systems help optimizing production by permanently analyzing the inspection data. The systems are linked to each other and protocol the quality of each shift, each product and each production volume 24 hours a day and 7 days a week.

Application

ColourBrain® Edge cameras are designed to be integrated in single or double sided edge banding lines, with interfaces to any kind of production control. With its optimized software modules, the *ColourBrain*® Edge cameras automatically inspect edges of various designs and decors.

In batch size one production lines the defects, including their pictures and relevant production barcodes, are being stored. At an extra repair station this information can be retrieved and then decided, if the piece will be repaired or if it has to be reproduced.

On the fly for lot size one: Within milliseconds the production control provides the camera system with relevant production data and loads the specific settings for the next furniture element "on the fly".

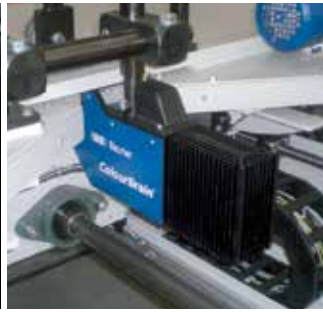


ColourBrain® Edge

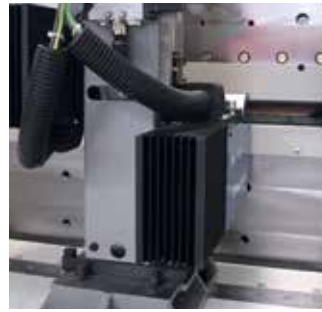
Keeps your process under control



Inspection heads in the edge bander.



Inspection foil encapsulated edges including check of foil joints.



Installation in a batch size one line.



Display of a defect part at the repair station.

ColourBrain® Edge

Small and compact inspection modules with integrated camera and illumination check edge band, veneered or laminated edges.

With a field of view scanning from topside around the whole edge all furniture elements are checked in-line for smallest defects.

Batch size 1

Automated teach-in process and automated decor change allows a serial production and a production with batch size one.

The reproduction of a damaged part can be commissioned immediately without any elaborate manual single piece production.

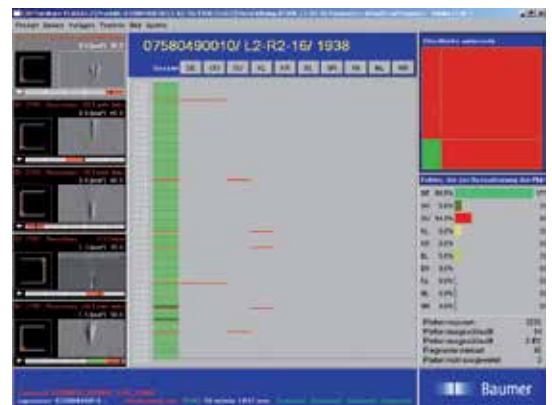
With the statistic module *Q-live*® it is possible, to classify and analyse the defects.



ColourBrain® Technology

The patented *ColourBrain*® technology imitates human perception for checking decorated surfaces. It learns to differentiate between GOOD and BAD based on few samples. Even in case of smallest production volumes and frequent changes down to lot size one, the system immediately adapts to the new product.

The user deploys an intuitive user interface that is easy to understand with clearly structured graphical menus in order to teach in new products, set tolerances and analyze the frequency and cause of defects with statistics and defect images.



ColourBrain® Edge

Inspection modules for defect detection and process control

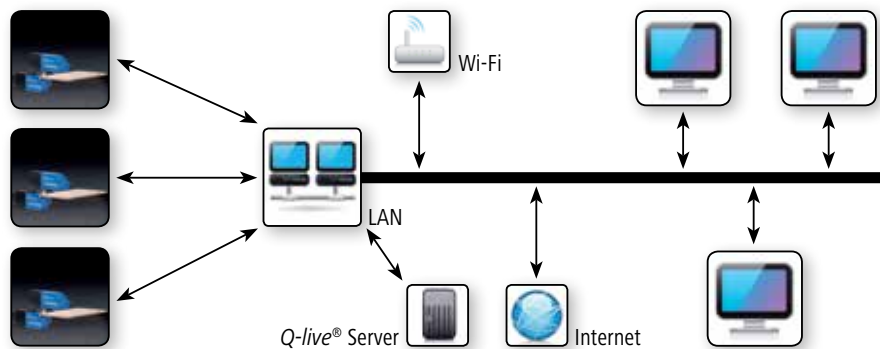
ColourBrain® Edge



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single or double sided edge banding lines, with interfaces to any kind of production control.

Q-live® – Process control



Direct data access to every inspection system on all lines. Surveillance of production in real time from your office desk, minute for minute for every line in every plant

Increase productivity by tracking down weak spots and bottlenecks and by intervening as soon as possible in the production of mass defects. Automatically create shift and order protocols.

Prevention of labour intensive reproduction of parts.



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