

ColourBrain® Edge 3D – Edge Inspection reconsidered.



Compact, robust and quickly integrated.

360° Inspection – Focus on the edge.

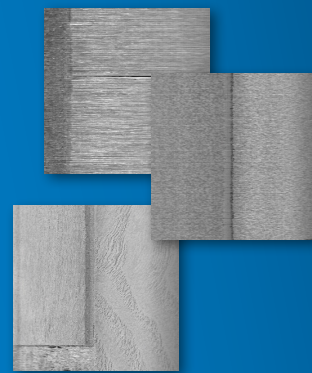
The *ColourBrain® Edge 3D* is a revised system for the inspection of glued and lasered edge bands on furniture parts. For example, too high edge bands are detected or even geometric features such as grooves and drill holes are recognized as such and distinguished from defects. In addition, defects such as edge breakouts on veneered edges or on real wood are visible. The *ColourBrain® Edge 3D* system can be used in both, series pro-

duction and batch-1 production for defect detection and process optimization, complementing the *ColourBrain® Furniture 4.0* system in a perfect way. As part of the product care, the heat dissipation has also been optimized so that the size of the system is more compact. The outstanding strength of the *ColourBrain® Edge 3D* lies in the detection of topographic defects. For this purpose directed line lasers are used.

Our defect detection, optimizes your production.

Your benefits at a glance:

- Reliable detection of topographic defects, such as too high edge bands.
- Defect detection of veneer and real wood edges.
- Grooves and drill holes are detected and distinguished from defects.
- *Q-Brain®* defect classification and assignment in the production process.
- The system is suitable for both, series and batch-1 operation.



Product data *ColourBrain® Edge 3D*

Inspection objects	Glued and lasered edge bands, veneer ribbon, real wood edges on furniture parts
Component widths/lengths	100-5.000 mm
Components heights	6-60 mm
Production speed	0-100 m/min
Material flow types	Series, batch-1

Fast Installation & Easy to Maintain.

- The delivery of a pre-set system ensures a short installation & commissioning.

Planning and Investment Security.

- Should your requirements change, thanks to our modular system design, extensions are possible at any time - hardware as well as software side.

Easily Integrated into your Edge Bander.

- The compact design allows fast installation into your edge banding machine.

Flexible Connectivity.

- High flexibility through predefined interface protocols for machine-to-machine communication.

Innovative 3D technology with directed line lasers enable to detect further defects.



Your Production efficiently designed.

The *ColourBrain® ReworkStation* is the cornerstone of an efficient batch-1 manufacturing. After scanning, all inspected components are provided with a barcode and the underlying defect logs are stored in a *Q-Live®* database. Defective components are ejected at a defined location by means of I/O signals and the defects are interrogated using the barcode. The quality responsible is now directly shown on the user interface the defect type and the position. A quick assessment of whether reworking is possible or must be directly re-produced can be done. A merger of several production lines in one rework station is possible.

The advantages are obvious:

■ Process Security

The direct and immediate intervention in the production allows for the rapid and efficient reduction of residues and accelerates your Supply Chain.

■ Process Optimization

The surface & edge inspection guides you in optimizing your production. The *ColourBrain® ReworkStation* is a helpful extension to optimize your batch-1 production.



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