

Press Release



Baumer Inspection presents the latest technology for modern flooring production as well as ColourBrain® Panel 4.0, an optimal product supplement for the coating line.

Do you have a really good overview of the quality in your production? Can you automatically detect the defects in your production and assign them to the cause in the process? This is exactly where the solutions from Baumer Inspection come in. By using automatic, optical inspection systems, qualitative production deviations become visible and with the help of evaluation statistics, well-founded decisions can be made for process optimization.

***ColourBrain® Flooring 4.0* - Latest technology for modern flooring production**

With the ***ColourBrain® Flooring 4.0*** inspection system, Baumer Inspection has reconsidered flooring inspection and is once again setting standards in the inspection of melamine-coated floorboards or LVT, SPC and other materials. The latest, innovative camera and lighting technologies are used, which provide impressive inspection results, including deep surface structures, edge chipping and overlay defects. This means that even the smallest defects are detected objectively, almost independently of



decor and structure. Another new feature is the «smart grading», an improved detection of e.g. overlying particles, loose milling residues and their corresponding tolerance. A new, intuitive user interface via touch screen rounds off the new complete package. With the help of standardized interfaces, the powerful ***ColourBrain® Flooring 4.0*** inspection system can be easily and quickly integrated into commercially available

line control systems and ensures the highest inspection performance even at the highest transport speeds and under harsh environmental conditions. The slim design as well as the concept of the «self-sufficient unit» lead to a significantly reduced space requirement in the production environment.

It is ideally complemented by the **ColourBrain® V-Shape 4.0** systems for checking the bevel coating of the V-joint directly after varnish application in the profiling line and **ColourBrain® Clip** for checking correct clip insertion directly after clip assembly.

ColourBrain® Panel 4.0 - compact, simple & intuitive for the coating line

The **ColourBrain® Panel 4.0** inspection system is the technologically leading, smart version in the inspection of both sides of uncoated and melaminepaper-coated fiberboards (e.g. particleboard, MDF, HDF) after pressing and edge trimming. The components are inspected on both sides for decorative defects and damages - a distinction can be made between process-related and sporadic defects. The results of the inspection are impressive: Surface defects such as bubbles, dents, fine cracks or heat streaks are precisely detected in the smallest degree - whether diagonally or transversely to the feed direction and completely independent of the decor. In addition, the inspection of the synchronous pore is already integrated in the standard configuration - the offset between the decor and the embossing structure can be determined and an alarm is triggered if the offset is intolerable.



Due to the innovative **FlashingSky®** technology, a precise evaluation is possible - regardless of which conveyor belt is in use, therefore a vacuum transport can usually be dispensed with. Since the system automatically classifies and tolerates any particles lying on top, no time-consuming cleaning is necessary. The even slimmer size and the fact that no special transport and cleaning technology is required guarantee a low space requirement in the throughput direction and therefore even easier integration into existing production lines. The system availability is maximized due to the ease of maintenance.

Further information: www.baumerinspection.com

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Baumer Inspection

For over 35 years, Baumer Inspection has specialized in maximum precision in the inspection and quality assurance of surfaces. With more than 900 installed systems, Baumer is the global partner for automatic, optical inspection systems for process control and defect detection. Baumer Inspection scanners inspect furniture panels, decorative papers, foils, floor boards and surfaces or edges of furniture parts worldwide.

Customers benefit on an international level from a broad portfolio of standard products, holistic advice and reliable service around the clock.

In addition to the automatic and reliable detection of the smallest defects at high throughput speeds, Baumer Inspection's developments in recent years have increasingly focused on optimizing its customers' production. Thus, the smallest deviations are analyzed with regard to the defect pattern and assigned to the cause in the production process accordingly. Anticipatory and timely measures can be taken to optimize quality and maximize output.

Baumer Inspection is integrated into the Swiss Baumer Group, a global family-owned company for high-quality sensors and systems for factory automation... www.baumerinspection.com.

Baumer Inspection GmbH

Phone +49 (0)7531 99 43 0

Fax +49 (0)7531 99 43 44

marketing@baumerinspection.com

www.baumerinspection.com

Press contact:

Jessica Rominger

Marketing

Phone +49 (0)7531 99 43 13

Fax +49 (0)7531 99 43 44

marketing@baumerinspection.com