



We keep an eye on your quality

Coating Master - quality control for coated sheets

100% quality control for coated sheets

Inspection - simple and reliable

ibea provides inspection systems to secure the highest product quality for your lines – built up modular, future safe and flexible. ibea has always taken a strong focus on stable and maintenance-free systems to assure a smooth and reliable around-the-clock production.

As a system integrator we have a professional full service including consultancy, training and remote support.

We value the highest quality requirements to our systems which assure you a well functioning production. To accomplish this we make sure that our components comply with the highest industry standards and secure system stability in harsh production environments.

ibea inspection systems differ in comparison to those of others in that they are extremely customer- and product oriented in their hard- and software design.

We focus on:

- Highest quality standards
- Easy handling
- Automatic setup
- Worldwide remote support
- Free software updates
- Fast spare parts service
- Quick response time and local support



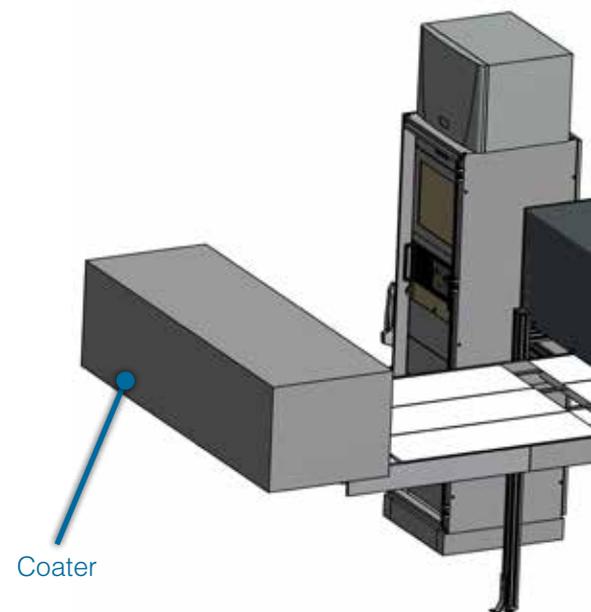
Coating master in production

Coating Master

ibea's new coating master is a huge step for your coating line to optimize the coating process. The idea of the coating and margin inspection is simple and contains just a monitoring that the margins are clean, in the right position and in the right size. The coating master will be installed on the conveyor directly after the coater. The housing is securely sealed to prevent explosion risk in such an environment. During production, running sheets will be scanned continuously and defective ones will be rejected.

Detection capabilities

- Margin size
- Register offset
- Margin contamination
- Coating defects like dry sheet, contamination and pinholes

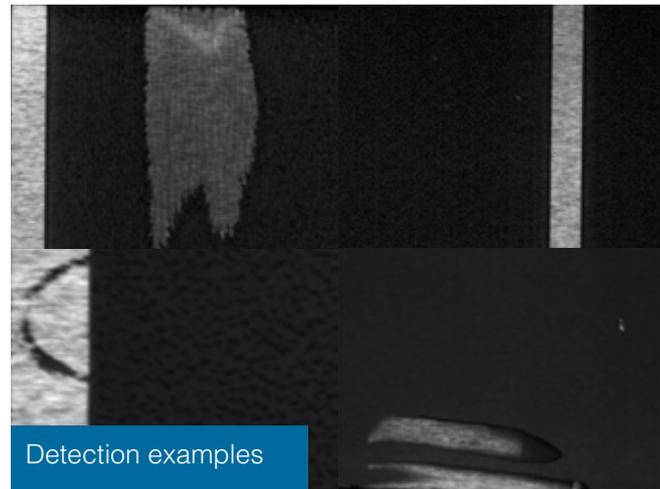
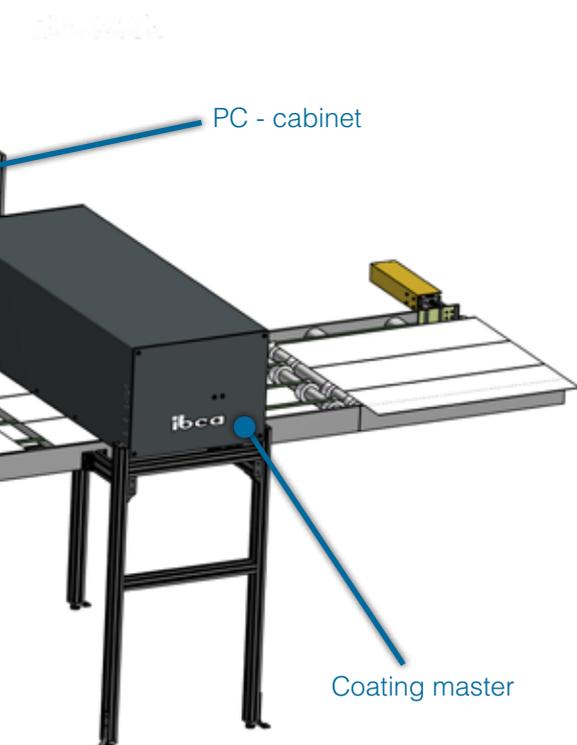


Technical drawing of the coating master

Significant waste and cost reduction

The operator is able to set the failure size and contrast for two types of flaws: margin (number, position, register and width) and coating defects (dry sheet, pinholes and contamination). The system offers easy supervision of all 8 margins (multiscan). Further on, the system searches for inhomogeneous areas in the coating itself to prevent dry or contaminated sheets passing the oven. Because the system signals if any intervention is needed, you have no need to take any sample sheets for margin measurement or register control anymore. So the coating master reduces waste and sorting costs significantly (ROI approximately in less than 12 months) and minimizes the risk of HFIs.

The system comes with a resolution of 8.000 pixel in width for a detailed inspection of the full sheet. All sheet types can be stored in the system and easily selected from a list and the system is ready to go without any change over time. On top of the measurement table an additional monitor can be added to simplify the register adjustments using the data the coating master provides.



Detection examples

Features

- 9000 sheets per hour
- Maintenance free & long life-time
- Individual produced systems according to client requirements
- Large number of production statistics
- Line PLC interaction
- Easy-to-use interface
- Remote control & support
- Ultra bright flash LED illumination with 1350 mm width



Inspected sheets to be transferred to oven

ibea - product quality systems

Testing methods applied by ibea systems

- Standard image processing applications:
inspection by camera of surface, texture, geometry, shape and dimensional accuracy, color, 2D and 3D measurement, holographic imaging, roughness, measurement of position and torsion, leak tightness
- Image processing, special applications:
Heat-flow thermography by direct application of heat or ultrasonic initiation for structure checks, crack detection or the detection of other anomalies; UV light for fluxing agents or coating checks — crack detection, X-Ray
- Acoustic inspection:
initiation by a hammer system
- Eddy current measurement:
castings

What ibea systems inspect

- Ceramic tubes, ceramic insulators
- NoX sensors
- Sprinkler glasses, sprinkler bodies
- Glass ampoules, plastic ampoules
- Syringes, syringe parts
- Laparoscopes, biopsy forceps
- Catheter, artery tubes
- Toothpaste caps or shoulders
- Blister packaging, before sealing:
two-sided and for filling
- Tablets - color, cracks, size
- Silicone sealings and plastic sealings
- Metal packaging
- Plastic packaging
- Heavy ceramics and fine ceramics

Put our know-how to the test

Feel free to send us samples of your faulty products that need inspection. Please give us a short description of your conveying system, possibly including photographs. Please also include conveyor speed and part rate. We will prepare a comprehensive offer specified to your needs, including needed accessories — all for an attractive price!

About ibea

ibea develops and implements inspection systems for a perfect quality check — modular, future-proof, and flexible. It is our aim to ensure a trouble-free production around the clock. Our focus is on producing systems, which are stable and maintenance-free. As a systems integrator we offer you comprehensive professional service from consulting to implementation.