



We keep an eye on your quality

clever+smart – The fully automatic inspection system

ibea[®]
we keep an eye on your quality

CS - clever+smart

Inspection - simple and safe

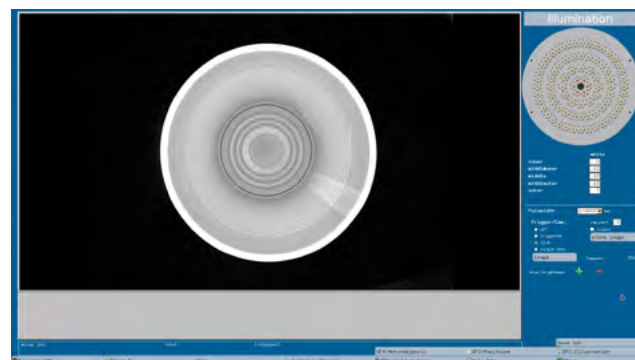
The single-line inspection system CS is the perfect basic solution in the metal packaging sector. With it, we have been able to reduce the size of our compact optical inspection system CUBE even further. The new CS system thus only consists of the imager, rotary encoder, light barrier and an ejector. It is therefore particularly easy to integrate into existing production lines and requires only a very small mounting area.

The system can inspect up to 800 parts per minute. The proven inspection software enables the inspection of round or square metal packaging with diameters of up to 190 mm and heights of max. 300 mm.

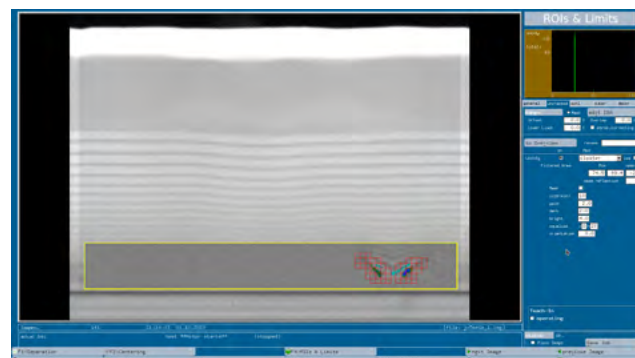
The highlight is the automatic set-up, which allows complete adaptation for standard products (cans, lids, closures) with just one click.



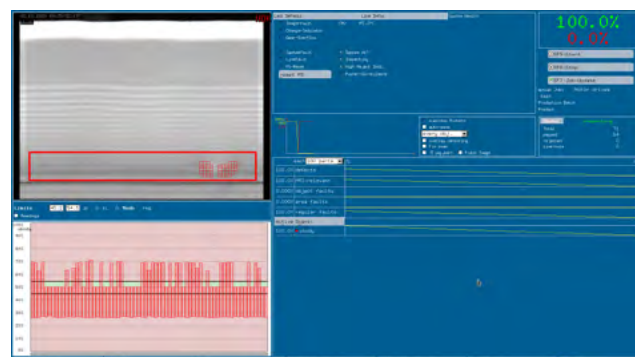
CS for lids or cans



Illumination



Unwrapped view of inside can wall



Inspection menu

CS - clever+smart

The CS system is extremely compact. All components such as lighting, camera and computer unit are permanently installed in the imager housing. An encoder-controlled Real Time System (RTS) regulates the timing for image acquisition, lighting and ejector. The scope of delivery includes basic software for standard metal packaging.



Thanks to its network capability, the system can be configured and monitored via the Internet.

The operating menu is self-explanatory, very clear and can be learned without training. Intelligent features such as the indicator browser for the subsequent inspection of defect images or the improved automatic mode prove ibea's long-standing know-how in the development of quality assurance systems.

All ibea system components comply with high industrial standards and thus ensure stability in rough production environments for a long lasting, maintenance-free 24-hour operation. As image processing components we only use high-quality cameras, lenses and lighting groups.

Features

- Single-line system
- Rate: 800 parts/min.
- B/W- or color camera with 800x800 px
- White LED illumination with diffusor
- Remote access via intranet or internet
- User friendly software with Indicator Browser for intuitive defect evaluation

Options:

- Operator unit (monitor, keyboard, Mouse and flexible mounting)
- System mounting
- Motorized lift for different can heights



High power LED light plate

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
Tablets - color, cracks, size
- Silicone sealings and plastic sealings
- Metal packaging
- Plastic packaging
- Heavy ceramics and fine ceramics
- Concrete stones and boards
- Endless materials

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 for your needs including accessories needed — all this at a very 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.