

5 steps to your individual symmetrical side wall inspection system

1. Material inspection

Sighting and assessment of your glass containers to be inspected

2. Defects specification

Determination of the type and size of the defects to be detected

3. Configuration of your side wall inspection system

Compilation of your system with respect to your requirements (container size, amount of cameras etc.)

4. Installation

Easy installation to an existing conveying belt in your product line within one hour

5. Commissioning

Setting of all parameters to your first article

On request you can rent our KSWI-18C and test it in your running production.

Container shapes, container sizes and glass colours

The KSWI-18C has been developed for the automatic optical inspection and sorting of round and moulded articles made of clear glass and coloured glass.

The shape or size of your container is not listed?
Simply contact us. We will find a solution. Telephone: +49 (0)3764 7791870



KSWI-18C Automatic inspection and sorting of container glass

Symmetrical 18-camera side wall inspection system

for the inspection of containers made of clear glass and coloured glass
for the inspection of round articles and moulded articles
with an inspection speed of up to 350 containers per minute

On-site installation, operation, service:

- Simple connection to an existing conveying belt within only one hour
- Supply also with own conveying belt and discharge unit
- Connection to different line control systems and different data acquisition systems possible
- Self-test functions are installed
- Image evaluation with commercially available hardware



Technical data:

- Individual door design for an adaptation to the space conditions
Swing doors, horizontal sliding doors, vertical sliding doors
- Machine dimensions: 2,100 x 1,050 x 1,900 mm (W x D x H)



Lauenhainer Weg 3
D-08393 Meerane
Germany

Tel: +49 (0)3764 7791870
Fax: +49 (0)3764 7791899
Web: www.optical-inspections.com
Mail: info@optical-inspections.com

KSWI-18C Automatic inspection and sorting of container glass

Optical inspection of side wall and mouth rim area

independent from changing light conditions and glass colours and
independent from the rotation position of the objects to be inspected



- + Detection of all known side wall defects using the shine through method
- + Detection of stress defects using polarised light
- + Detection of additional defects in the shoulder and mouth rim area
- + Measuring of height, diameter and axis deviation

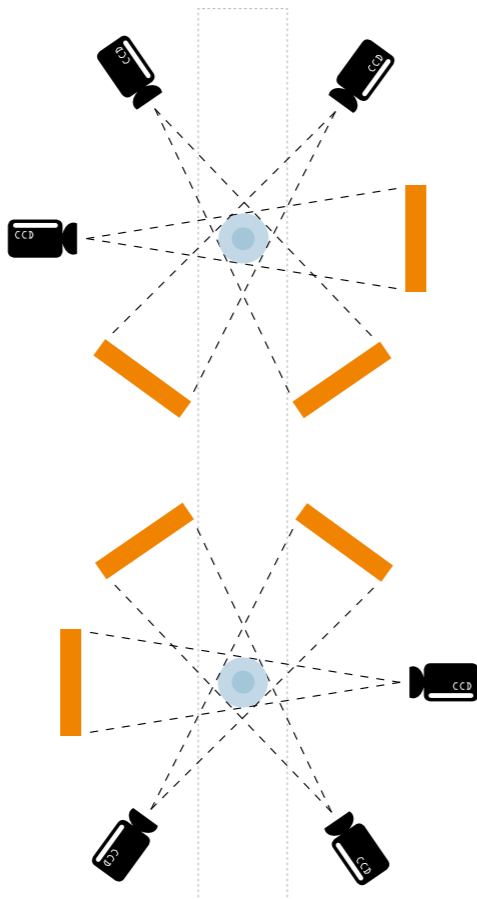
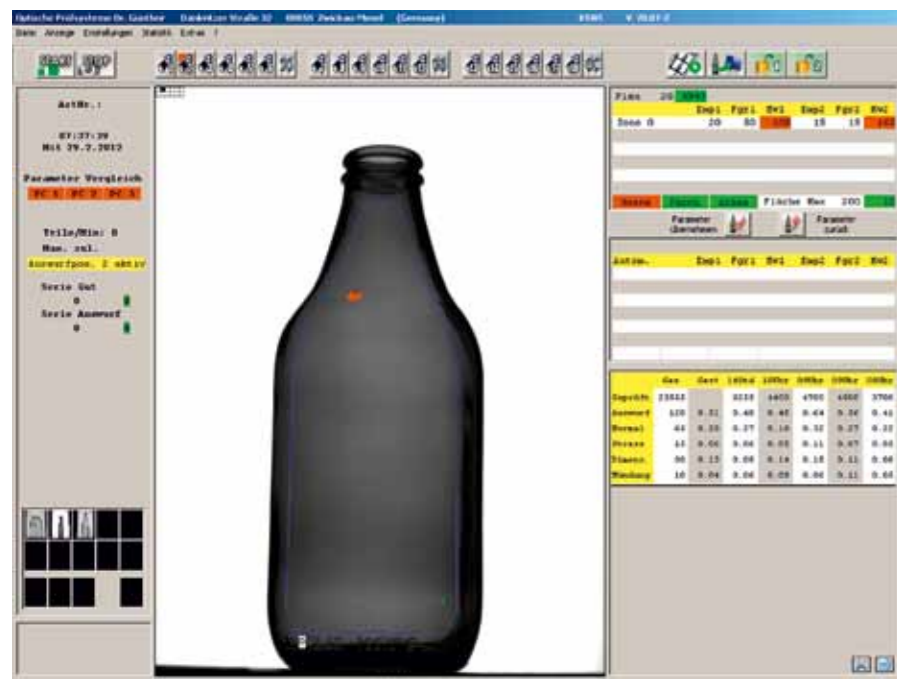
Symmetrical optical conditions
guarantee best sorting results



Optische Prüfsysteme
Dr. Günther

18-camera side wall inspection system

allows reproducible measuring results due to a symmetrical structure



The symmetrical structure generates identical illumination conditions for each camera and allows reproducible measurements independent from the rotation situation of the container to be inspected. Identical defects are always evaluated in the same way. This guarantees best sorting results.

Optical features:

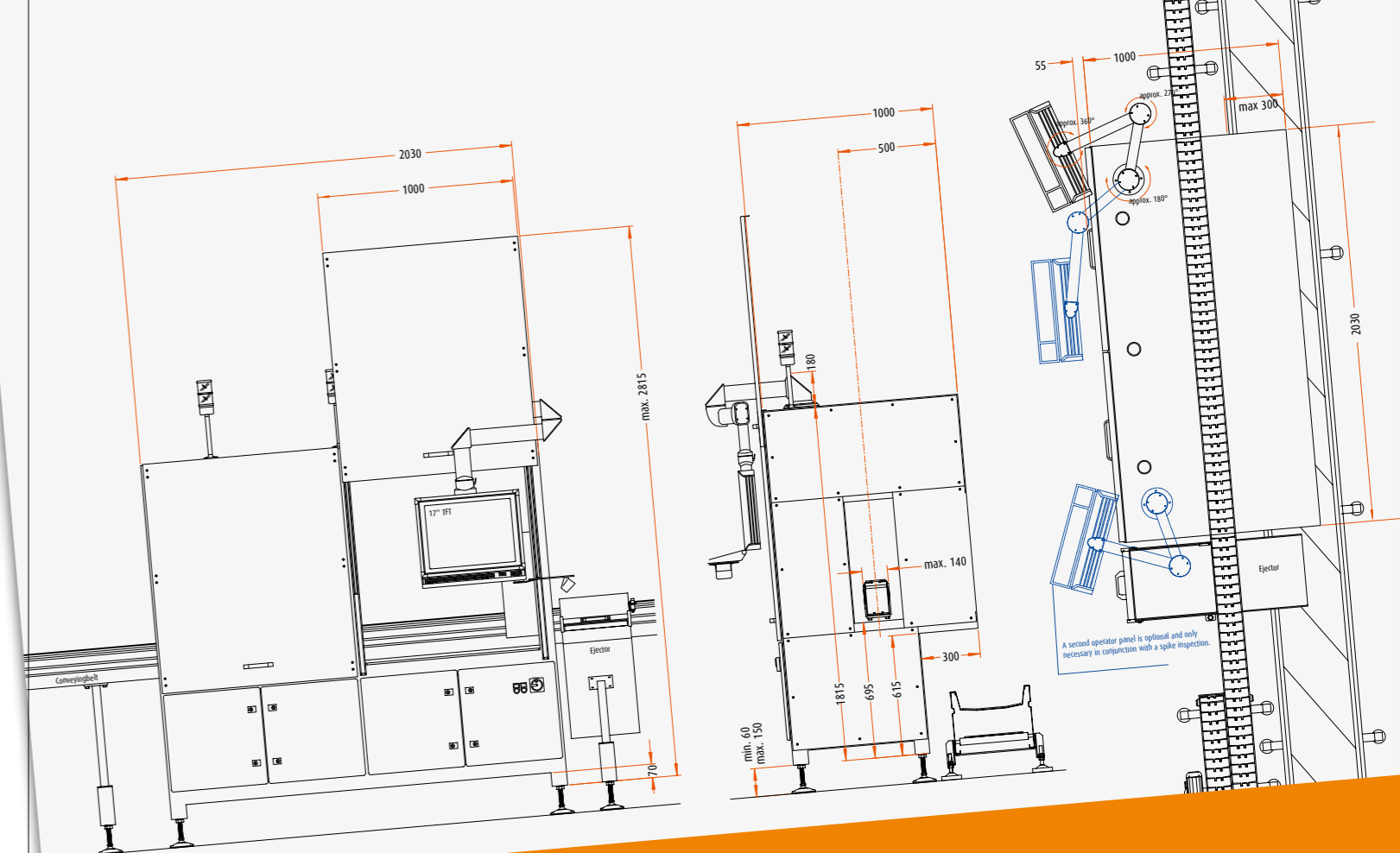
- identical optical conditions for each camera due to the symmetrical structure
- Available with 3, 4, 6, 8, 12, or 18 industrial CCD cameras
- High light output, low energy consumption, long lifetime, no incident light effects and best optical conditions due to LED flash illumination
- Full image matrix

Inspections characteristics:

- Minimum detectable defect size down to 0.2 mm depending on article size
- Differentiation between mould seams and real defects
- Differentiation between shadows and real defects
- Inspection independent from changing light conditions and glass colours

Operation and evaluation:

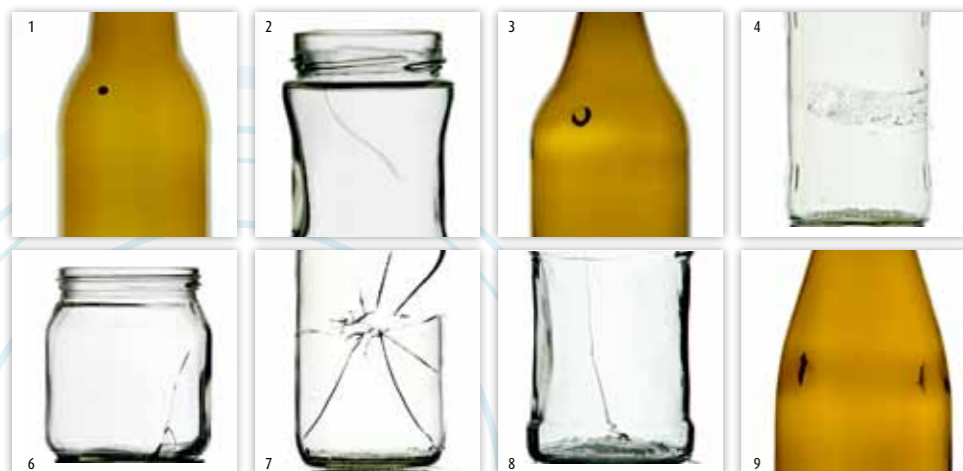
- The defect size can be set via parameters for OK-NOK-determination
- Inspection parameters can be changed during running automatic mode
- The operator can individually set all parameters
- Several zones with different inspection criteria can be set for the side wall area
- The tolerance limits can be set for dimension measuring
- Multiple statistic evaluations available
- Settings to each article can be saved individually



On-site installation:
Simple connection to an existing conveying belt within only one hour, supply also with own conveying belt and ejection unit

Detection of all known side wall defects

using the shine through method



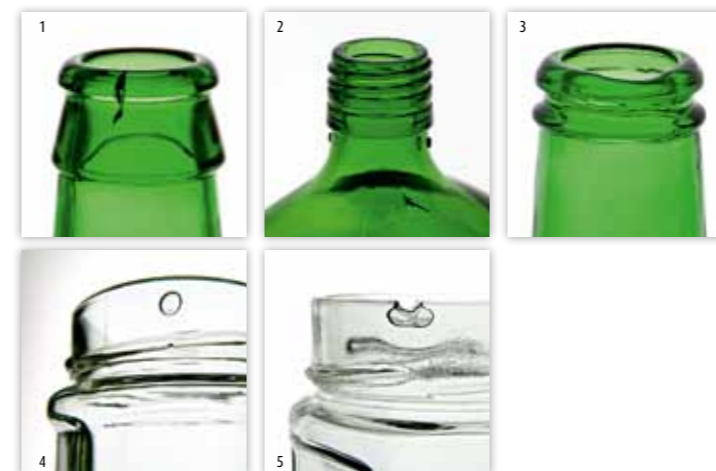
- 1 Inclusion of foreign materials
- 2 Folds
- 3 Stones
- 4 Contamination
- 5 Bubbles
- 6 Cracks
- 7 Broken glass
- 8 Spikes
- 9 Bird swings
- 10 Glass splinters

Detection of stress defects

using polarised light

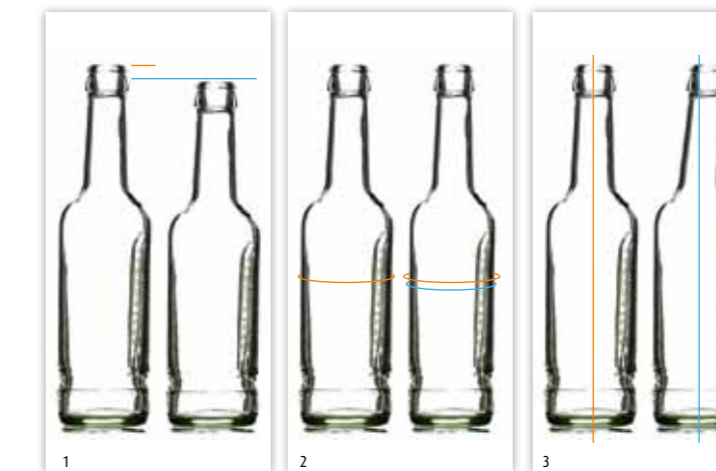


Detection of additional defects in the shoulder and mouth rim area



- 1 Cracks
- 2 Inclusions
- 3 Unfilled rim
- 4 Bubbles
- 5 Break-outs

Measuring of height, diameter and axis deviation



- 1 Height (+/-0.1 mm)
- 2 Diameter (+/-0.1 mm)
- 3 Axis deviation (+/-0.25 mm)