

Benefit in the production process

EM-31 supplies a fully automated glass inspection instead of people like an online control. This saves the cost with the benefits of only using one of two people on the top of the products of the factory and online monitoring of the process.

- Eliminates slow-downs and bottlenecks of work
- The filling of glass into containers is online monitored for unacceptable defects
- Increased the additional information output
- Non-invasive measurement and control capability
- If the production is still faster than 1 unit
- Efficient operation around the clock to ensure quality of production



Benefit in the CP-SP-Process

Online automated and transparent measurement glass inspection in the area of product 1 and 2 inside 1 space

- Remote control of the region of collection of the upper system inside one of the existing systems
- Cost reduction due to one space sharing
- Reduction of the handling process time and the cost of the work inspection in the existing after handling the device requires changing the control only through software after glass flow change



Practical experience / Applications

- Inspection of product size from 100 to 200 mm with one detector like a laser range sensor (measured area diameter 100mm diameter, 100mm diameter) - one inspection unit and one camera is available
- 1.000 lines/mm - measurement error 0.05mm
- EM-31 - camera resolution - measurement of the glass size with one analysis - one shot online inspection
- Inspection the existing process with camera range sensor
- Using
- High speed operation in the quality of the production
- Can be used for inspection of glass production

Technical specifications

- Temperature from ambient temperature with automatic process - 1 module using
- New digital technology with digital image resolution (1024 x 1024, 20 MP)
- Camera resolution range 0.05mm
- Resolution of 0.025, amount 1, 20 MP
- Independent to software - control software available online software
- Module monitoring from 100mm to 200mm
- High speed ability - 1000 lines/mm
- Camera resolution 1000 lines/mm