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automation

ASDR3

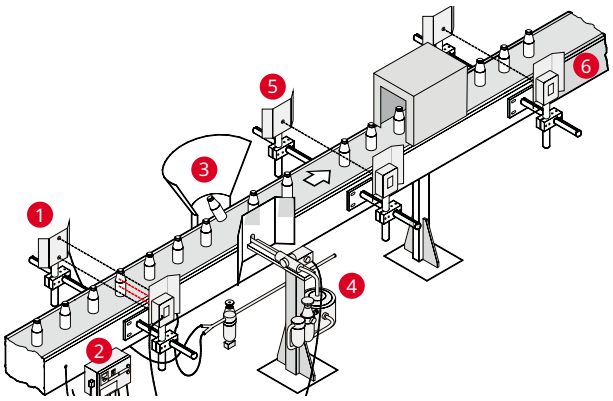
Autonomous Stuck and Down Ware Reject System



Precise and safe rejection at the hot end

Compact, small and versatile – Bucher Automation's new hot-end reject system ASDR3 detects and removes containers from the conveyor if they are smaller or larger than a freely selectable diameter, are too close together, have fallen over or are broken (cullet, fragments).

The optional IR sensors detect and reject faulty products with more than one parison (so-called double parisons). Two additional light barriers can be supplied as an option to detect congestion ahead of the hot-end coating tunnel and count the quantity of good products, for example downstream of the ware transfer. The optional IS machine control system allows faulty containers to be rejected either manually by pressing a key on the section or automatically, e.g. after lubrication.



The ASDR3 is designed to work as a standalone system and is suitable for retrofitting to almost any production line. The structure and design reflect the harsh conditions prevailing in the IS machine's environment.

1. Light barrier unit 1
Two height-adjustable light barriers and two optional IR sensors for precise detection of faulty containers.

2. Control unit
Rugged industrial design with control and display elements. Used to activate "Teach mode". No further calibration required.

3. Cullet chute
Can be mounted at any point on the conveyor.

4. Reject nozzle
Broken or out-of-tolerance containers and containers that have fallen over or stuck together are rejected here.

5. Optional light barrier unit 3
For detecting congestion at the entrance to the hot-end coating tunnel.

6. Optional light barrier unit 2
For counting the quantity of good products, e.g. downstream of the ware transfer.

Reasons for rejection

- Objects are smaller or larger than a freely selectable diameter
- Objects are stuck together
- Objects are too close together
- Objects have fallen over
- Objects are broken (cullet, fragments)

Benefits

- Quick and easy to install
- Very small footprint
- Suitable as a standalone control system
- Reject correction simply requires a reject
- signal from the IS control
- Compatible with all IS control systems

Additional functions

- Double parison reject system
- Monitoring function at the entrance to the hot-end coating tunnel (for detecting congestion); continuous reject mode is activated if necessary
- Good products counter, e.g. downstream of the ware transfer
- Advanced plant data collection with storage on a USB or PC via Ethernet

The control unit is just 380 x 380 x 210 mm in size and can also be installed underneath the conveyor without any problems to save space. All inputs and outputs are plug-gable. The system is designed for ambient temperatures up to +85°C; power is supplied from the 115 VAC / 230 VAC mains. If the power supply is interrupted, all data is stored in a non-volatile memory and can be accessed again the next time the unit is switched on.

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