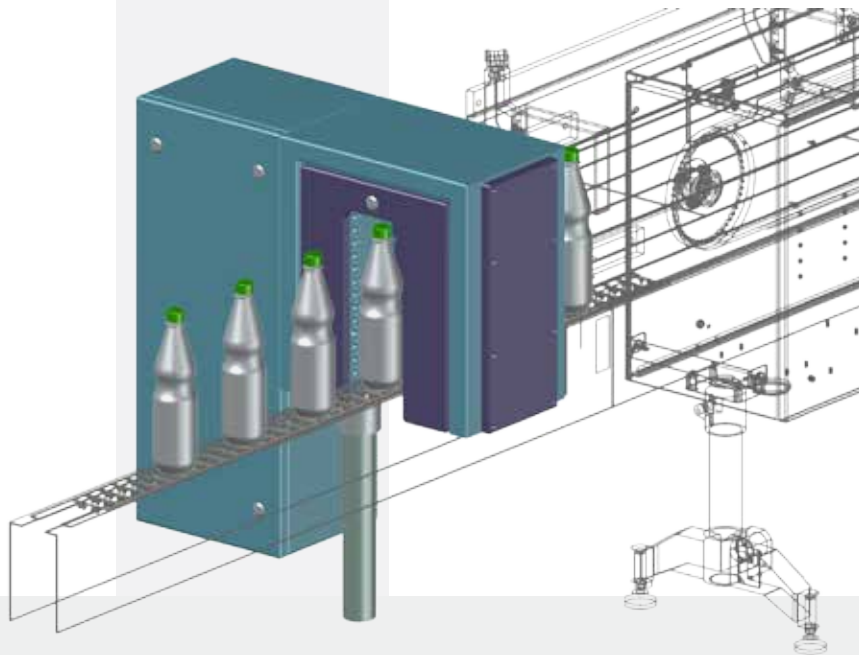




Multicon 3

Bottle Sorting System



The miho **Multicon 3** is an **accurate bottle sorting system** with a detection facility for **all optical features** of the bottle. Any differences in **bottle-shape, colour and size** can be detected and the system is able to make a **fine distinction**, so that only bottles of the required bottle-type enter the filling process. The miho **Multicon 3** can also sort the remaining bottles in accordance with the criteria set by the user and divert these bottles onto different conveyors.

One of the strong points of the miho **Multicon 3** is the **compensation of different „classic“ disruptive factors** which up until now have led to incorrect sorting. The miho **Multicon 3**, for example, allocates bottles with **loosely hanging labels** or **PET bottles** that are deformed by underpressure to the right bottle-type despite these deviations and ensures that they are forwarded or diverted accordingly.

The **technical basis** for this special performance is mainly a complex camera mirror system and a modern image-processing system with the new platform miho **VIDIOS®** (**V**ersatile **I**mproved **D**istributed **I**maging **O**peration **S**ystem / **R**eal Time). miho **VIDIOS®** has been designed specifically by miho for inspection tasks.

List of features

Functions and performance

- Inspection of the bottle shape and height.
- Inspection of the bottle colour and brightness.
- Colour evaluation of the entire bottle and therefore no influence of residual liquids or labels.
- Compensation of disturbance variables such as loose labels, snap rings, or drinking straws.
- Simultaneous sorting according to different sorting criteria to different reject channels. Sorting of multiple types with one setting. No height adjustment of the inspection head is necessary.
- Optional: detection of glass with UV-filtering.
- Optional: distinction between glass and PET bottles.
- Optional: differentiation of different bottle finishes and cap shapes.
- Optional: compensation of PET bottles deformed by a vacuum.
- Sorting capacity up to 72 000 bottles / hour.

Technology

- **New platform miho VIDIOS® (Versatile Improved Distributed Imaging Operation System / Real Time)** for high quality image-processing. miho VIDIOS® is a registered trademark of miho for its own specially developed software program structure for image-processing. It is possible to carry out improvements to algorithm through the exact knowledge of source codes both better and faster

in accordance with the requirements of inspection technology in the beverage industry. Thanks to miho VIDIOS®, miho is independent from external software manufacturers and can react more quickly to customer needs.

- Maintenance-free lighting systems with durable LEDs.

Operation

- Colour display with touch screen. Intuitively controllable user interface in local languages.
- High level of operational safety through individual password protection.
- Optional: Access protection by means of transponders.

Prepared for

- Remote maintenance via Internet.
- Operating data collection (for example, Weihenstephan standard version). Built-in network interface (Ethernet, TCP / IP).

Rejection

- Pneumatically operated standard Reject System miho **HSP**.
- Servo motor-driven eccentric Reject System miho **ESF 2**.
- Linear Reject System miho **Leonardo M**.
- Various reject signals for existing reject systems.

