BBULL®
TECHNOLOGY

BBULL VK-400

Full Crate Inspection with Sensor Technology (Diffuse Reflection Sensor, Ultrasound, Initiator)

PRODUCT SPECIFICATION

BBULL® TECHNOLOGY

General

The last possible time to recognize missing bottles in order to complete or reject a crate is between the packer and the palletizer.

If an incomplete crate is stacked on a pallet missing bottles can be recognized by the customer.

The use of the BBULL Full Crate Inspection **BBULL VK-400** allows manufacturers to recognize and to sort out incomplete crates at full production speed.

BBULL VK-400 is an universal inspection device adequate for almost all current types of crates.

The system is tolerant especially to vibrating or toppling bottles.

The inspection can be carried out in a lengthwise or crosswise transport under the sensor bridge.

An extensive self-diagnosis of the sensors in combination with a malfunction text display guarantees high reliability and easy operation. **BBULL VK-400** can be easily mounted on existing installation.

Running through side by side maximum 6 bottles can be inspected. Running free of interruption is ensured even if the range of tolerance is big or if there are difficult conditions.

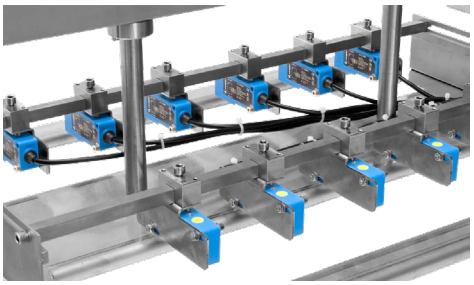
REMARK:

If there are some different crates in your bottling line or the production must be changed often from one type of crate to another, then **BBULL-400** can be upgraded with additional lines of sensors. So there is no need for the operator to rearrange the sensors manually. For switching you only need to change the format at your control device.

Application

Full crate inspection within bottling lines in the:

- Brewing industry
- Mineral water industry
- Soft drink industry
- Milk industry
- Juice industry
- Wine and champagne industry
- Tinned food industry



Mode of Operation

The system consists of a sensor bridge and a control unit **BBULL PC-400**. For different crate types within a bottling line the height of the sensor bridge can be adjusted easily.

The sensors are integrated in the sensor bridge. They are easily adapted to the bottle lines to be inspected. The crate can be transported under the sensor bridge lengthwise or crosswise.

The evaluation of the sensor signals, as well as the transfer of a faulty crate to the rejection system is performed by the control unit **BBULL PC-400.** Bottles with high tolerances or toppling bottles do not disturb the inspection process.

When the system recognizes an incomplete crate, a signal is activated to stop the conveyor, to activate an acoustic or optical alarm or to transfer the faulty crate to the rejection unit.

Technical Data

PC based System:	6,4" Touch Screen
Power supply in volt/hertz/:	230V/50-60
Environmental temperature in degree Celsius:	5- 42
Sensor bridge measurements (BxHxD) in millimeter:	830x880x460
Sensor bridge weight in kilogramme:	17,5
Control unit measurements (BxHxD) in millimeter:	400x500x280
Control unit weight in kilogramme:	42,5
Building class:	Steel cabinet, V2A / IP 55
Conveyor speed approx. in meter per second:	1,0
Interface:	Ethernet, 1x seriell / RS232 / RS422 / RS485
BDE-Interface:	upgradeable
Inputs:	16, +(8), 24V+
Outputs:	8, +(8), 24V+

STRATEC CONTROL-SYSTEMS GmbH • Ankerstrasse 73 • 75203 Königsbach-Stein
Telefon (+49) 72 32- 40 06- 0 • Telefax (+49) 72 32- 40 06- 25 www.bbull.com