



## BBULL CCI

Pressure and Vacuum Inspection by  
proximity Sensor performing up to 60.000 c/h

# PRODUCT SPECIFICATION

## General Introduction

**BBULL CCI** is a highly precise detection system inspecting caps and food cans. Based on longtime experience in developing sensory measuring systems we are now able to offer a new type of inspection system especially designed to meet your requirements.

The system consists of an inspection bridge that scans the containers without contact up to a conveying capacity of 60,000 units per hour. The evaluation and processing occurs via a high-quality industrial control with flexible communicative integration options to existing systems. For that purpose there is an extensive software package with database connection and statistical evaluation.

## Important Features

The system can be used for:

- jars with twist-off caps
- bottles with crown caps and other caps
- food and drink cans

and detects the following characteristics:

- missing caps
- defective, deformed and asymmetrically attached caps
- missing vacuum or internal pressure (indirectly by inspecting the deflection)

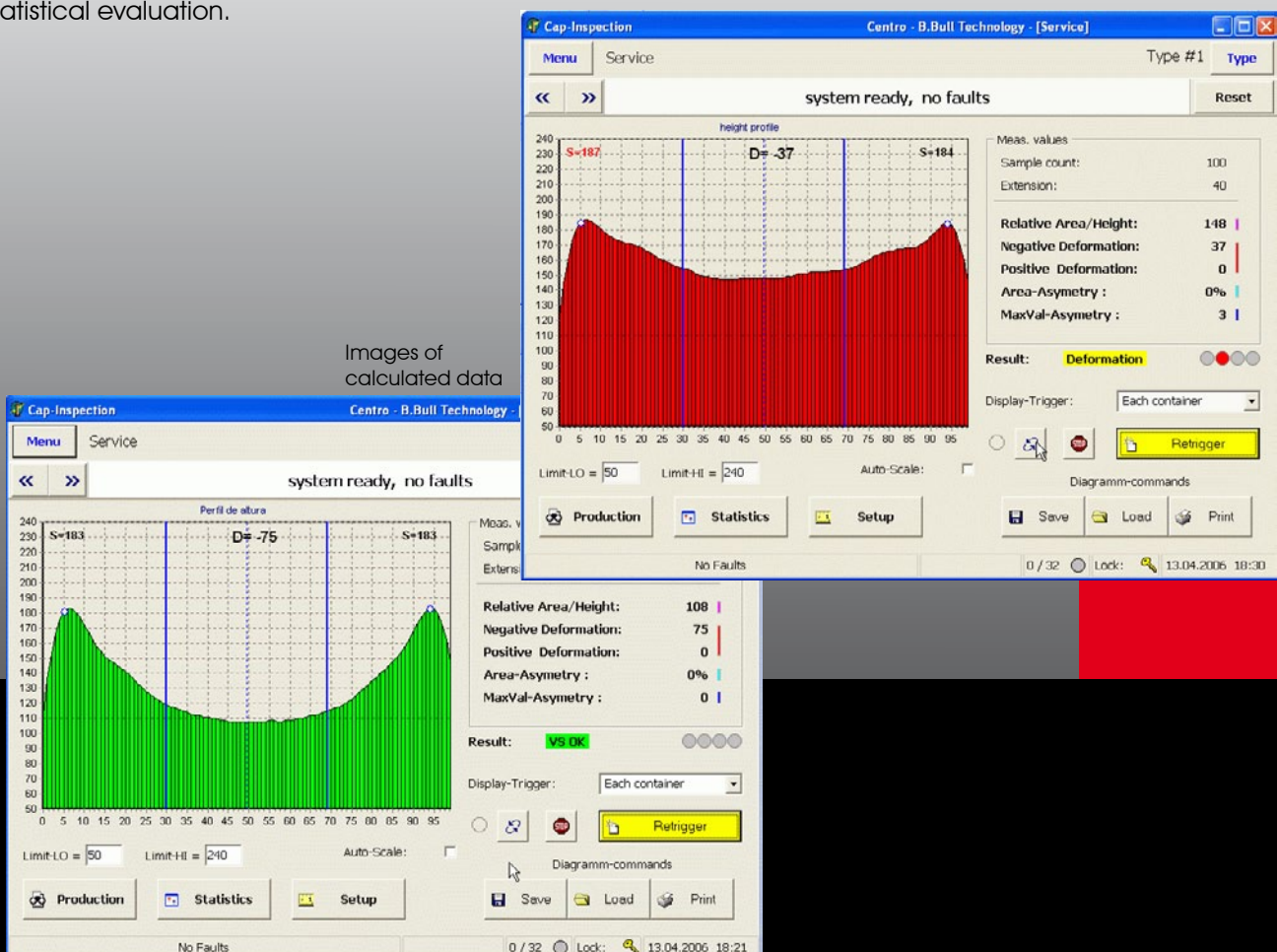
## Mode of Operation

The **BBULL CCI** system operates based on a specially developed scanning sensor (electromagnetic or with laser) that detects the containers above the conveyor belt in continuous free running.

During measurement the surface of the container is scanned using up to 128 measuring points (depending on size). Subsequently these data are saved digitally in the memory and an outline is generated accordingly.

Using complex algorithms the profile created this way is compared with stored setpoint values concerning shape and symmetry.

Images of calculated data



# Statistics / Database Connection



The optimum evaluation and further processing of measured production data is the essential requirement for efficient and cost-saving production.

The **BBULL CCI** software module provides tools that support the user during the entire process chain from measuring and setup through to production monitoring, including statistical evaluation and documentation.

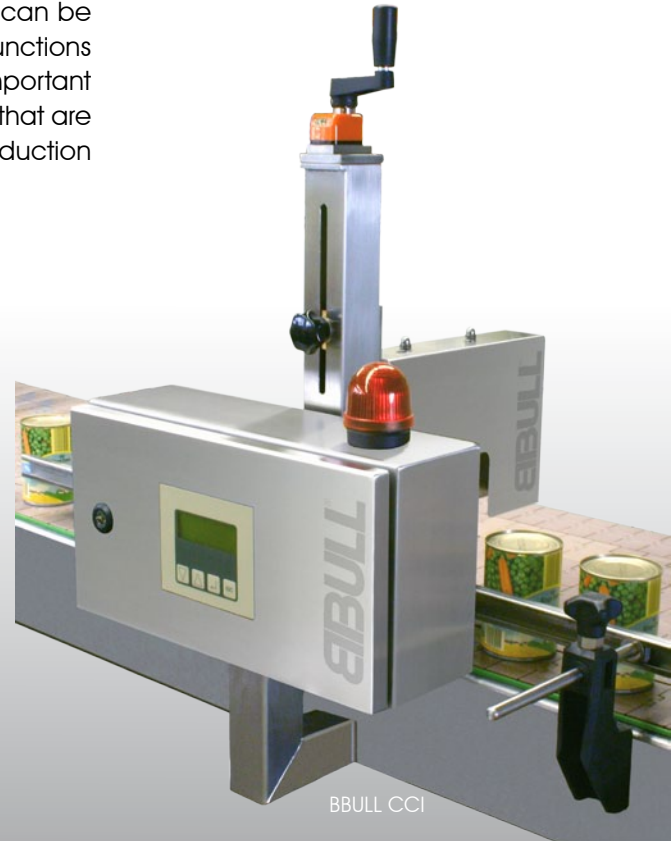
The basic system consists of a sensor bridge and a „Black Box“ with a LCD display and a 4 button control unit. This „Black Box“ can be connected with the control unit by a network interface.

The software module runs on standard desktop PCs or laptops equipped with Windows XP and Windows 2000 to simplify the use.

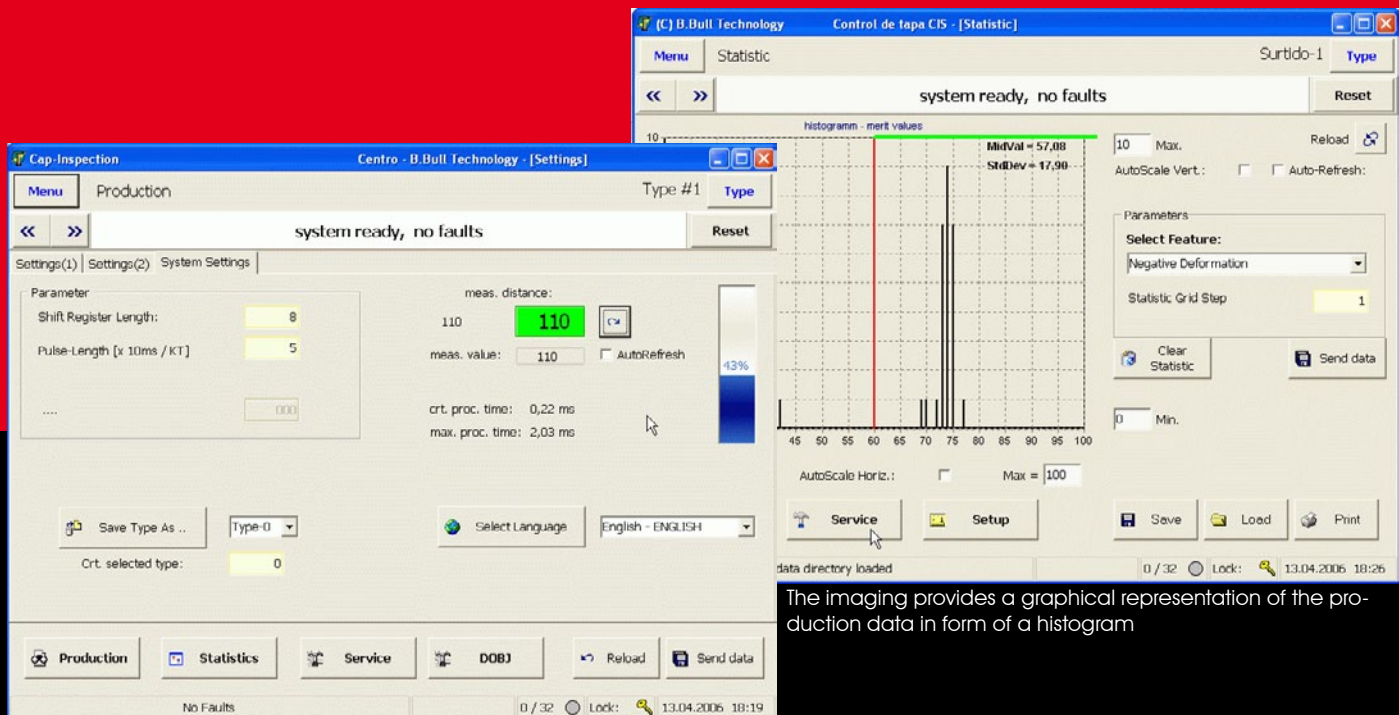
Combined with the local control the software forms an extensive optimization and supports networking of several individual local systems. The networking capability of the integral statistical tool provides production data where it is needed, e.g. in production planning

and control or in quality assurance.

The statistics compiled allow to detect and thus eliminate weak points in production. So, for example, the percentage of faulty products can be determined. The monitoring functions used in production provide important info concerning rejection rates that are too high. The traceability of production batches is also ensured.



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The imaging provides a graphical representation of the production data in form of a histogram

## Technical Data

Operating performance in  
containers per hour: \_\_\_\_\_ max. 60.000

Measuring principle: \_\_\_\_\_ inductive / optical  
according to the  
respective specification

Dimensions (WxHxD)  
in millimetre: \_\_\_\_\_ 380x750x460

Power supply in  
volt/hertz/ampere: \_\_\_\_\_ 230/50/2,5±10%

Weight in kilogramme: \_\_\_\_\_ approx. 3

Ambient air temperature  
in degree celsius: \_\_\_\_\_ 0 - 40

Signal output with pusher tracking

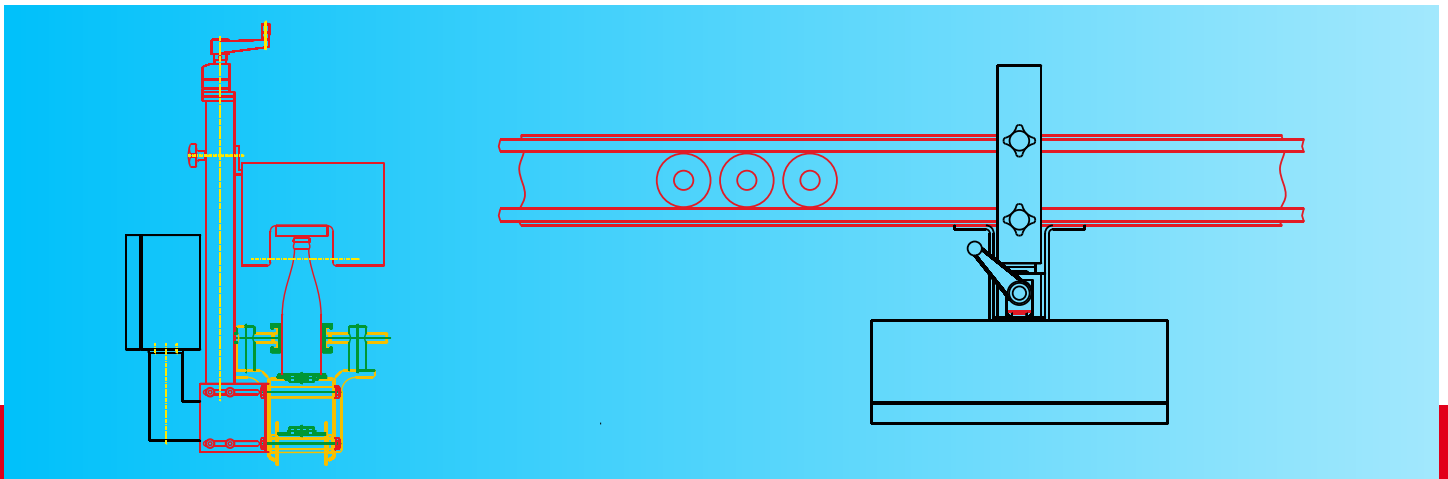
Local operating unit

Networking of local systems via CAN bus

Software module linking via TCP/IP

Height adjustment to different product formats

## Installation Drawing



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](http://www.bbull.com)