

BULL[®] TECHNOLOGY

CENTRO BRUSH OFF

Rejection and Distribution System
for Bottles and Cans

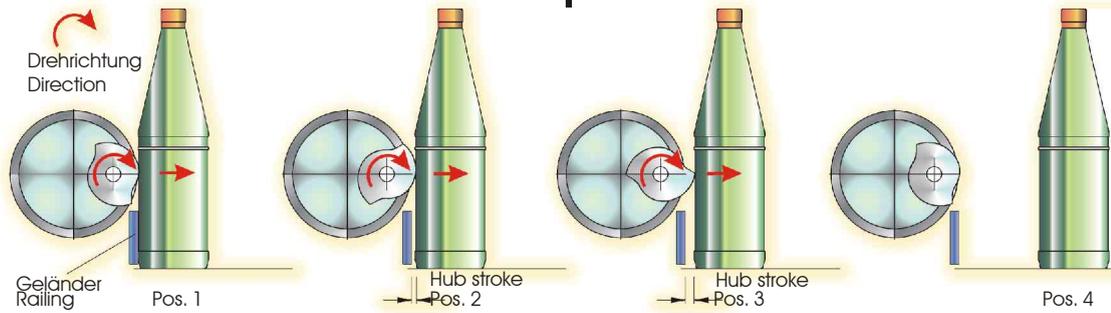


B BULL
INFORMATIK & INDUSTRIE
ELEKTRONIK

CENTRO
KONTROLLSYSTEME

STRATEC
CONTROL-SYSTEMS

Technical Principle



General Introduction

With a growing consciousness in quality, the demand for automation of the filling line is continually increasing. Therefore, the requirements of the market must be met whilst keeping costs down. The growing consciousness in quality means that the customers' requirements on inspection equipment have changed.

As well as the simple fault detection, the biggest challenge for inspection technology is the rejection of the faulty container.

With **CENTRO BRUSH OFF SYSTEM B.BULL TECHNOLOGIE** offers a rejection and distribution system that fulfils these requirements, providing progress in quality assurance and improvements in productivity within the beverage industry.

Depending on practical application **B.BULL TECHNOLOGIE** offers several systems which can be used according to the demands on the rejection system.

Technical Principle

CENTRO BRUSH OFF is using a rotoring dispenser. The cam has been designed according to scientific principals, to give a defined speed to the container to be rejected. Independent if the bottle is full or empty the shoving distance is always the same.

Additionally the system will be synchronised with the conveyor speed, in order to suit varying conditions.

The **CENTRO BRUSH OFF** is suitable for highest conveyor speeds, as the rejection device is ready for the next process, immediately after the conclusion of the previous rejection.

Application

CENTRO BRUSH OFF is an intelligent rejection and distribution system for a guaranteed standing rejection of the container.

CENTRO BRUSH OFF provides effective rejection for all round glass packages with all conveyor speeds. In areas of high performance, **CENTRO BRUSH OFF** has been proven in a huge number of applications and is wear-resistant with high functional stability.

The system is recommended in combination with

- the empty bottle inspector
- the sorting of bottles
- the filler management system as well as for
- multi-lane distribution with a minimum amount of space.
- a defined division of the bottle stream.

Most Important Features

- guaranteed standing rejection and distribution of glass bottles and steel cans
- synchronisation to varying conveyor speeds
- exact regulation of displacement power
- defined distance of displacement independent of the fill level of the container
- reliable rejection and distribution even with a transportation of the containers without a gap
- extremely wear-resistant
- high performance stability
- integrated self-diagnosis
- TEACH IN procedure for signal interface

CENTRO BRUSH OFF

(without illustration)

The displacement unit is driven by a regulated DC-motor. When starting the distribution procedure, the rotating displacer is moved by a **pneumatic** coupling. The container to be rejected is accelerated along a defined rejection curve and is handed over to the rejection conveyor with a defined speed. Therefore constant displacing distance and a standing rejection, independent of the mass of the container, can be guaranteed.

CENTRO BRUSH OFF electronic

(←illustration)

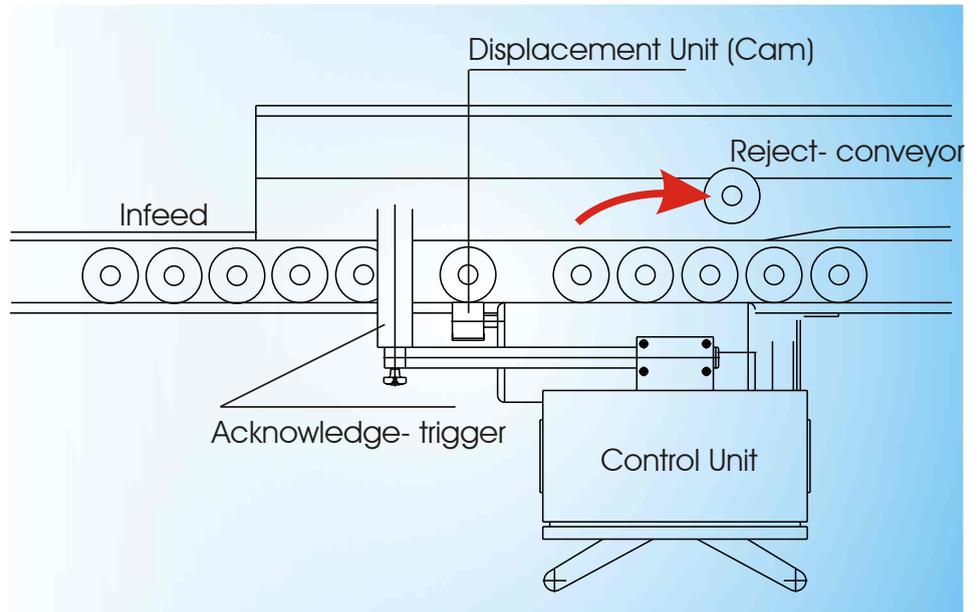
During the construction of this system, much consideration was given to the design which considers the rules of hygiene. The displacement unit is moved by a regulated DC- motor. The power transmission is done electromagnetically, thus the system works without additional air supply.

The container to be rejected is accelerated along a defined rejection curve and is handed over to the rejection conveyor with a defined speed. Therefore, constant displacing distance and a standing rejection can be guaranteed, independent of the mass of the container.

CENTRO BRUSH OFF pneumatic

The displacement unit is moved by a pneumatic rotating- cylinder. The speed of rotation and consequently the displacing distance is adjusted by the air-level.

The container to be rejected is accelerated along a defined rejection curve and is handed over to the rejection conveyor with a defined speed. Therefore, constant displacing distance and a standing rejection can be guaranteed, independent of the mass of the container.



Technical Data

	Brush Off	Brush Off electronic	Brush Off electronic	Brush Off pneumatic
Max. output units per hour	up to 100.000	up to 80.000	up to 60.000	up to 40.000
Continuous output in units per hour	up to 90.000	up to 72.000	up to 50.000	up to 24.000
Maximal conveyor speed units per second	2,0	2,0	2,0	1,2
maximal weight of the unit in kg	2,0	2,0	1,5	1,2
Compressed air supply in bar	min. 2,5			min. 6
Overall height in mm	approx. 600 above belt	approx. 750 above belt	approx. 750 above belt	approx. 500 above belt
Overall width in mm	approx. 400	approx. 630	approx. 630	approx. 400
Overall depth in mm	approx. 400	approx. 540	approx. 540	420
Main power supply in V/AC/Herz	230/50 Hz	230/50 Hz	230/50 Hz	230/50 Hz

Product Range

Maximal speed in units / hour	Standing rejection of fault bottles			Container rejection
	Glass and Cans	Sampling	PET	
BRUSH OFF pneumatic	40.000			
BRUSH OFF 60 electronic	60.000	50.000		
BRUSH OFF 90 electronic	80.000	72.000		
BRUSH OFF	100.000	90.000		
TRANSLINER	30.000	24.000		
TRANSLINER pneumatic	40.000 ¹⁾	24.000	40.000 ¹⁾	
SYNCHRON	50.000	50.000	50.000	
SOFTPUSH				60.000
BINPUSH				120.000

Higher speed on request

1) Min. 20 mm residual liquid

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INFORMATIK & INDUSTRIE
ELEKTRONIK

BERNHARD BULL COMPUTER GmbH
Ankerstrasse 73
75203 Königsbach-Stein/Germany
Telefon (+49) 72 32-40 06-0
Telefax (+49) 72 32-40 06-25
E-mai: info@bbull.de
<http://www.bbull.de>

CENTRO

KONTROLLSYSTEME

CENTRO KONTROLLSYSTEME GmbH
Hagener Strasse 75
57072 Siegen/Germany
Telefon (+49) 2 71-48 96 3-6
Telefax (+49) 2 71-48 96 3-74
E-mail: info@centrok.de
<http://www.centrok.de>

STRATEC

CONTROL-SYSTEMS

STRATEC CONTROL-SYSTEMS GmbH
Ankerstrasse 73
75203 Königsbach-Stein/Germany
Telefon (+49) 72 32-40 06-0
Telefax (+49) 72 32-40 06-25
E-mail: info@stratec-control.de
<http://www.stratec-control.de>