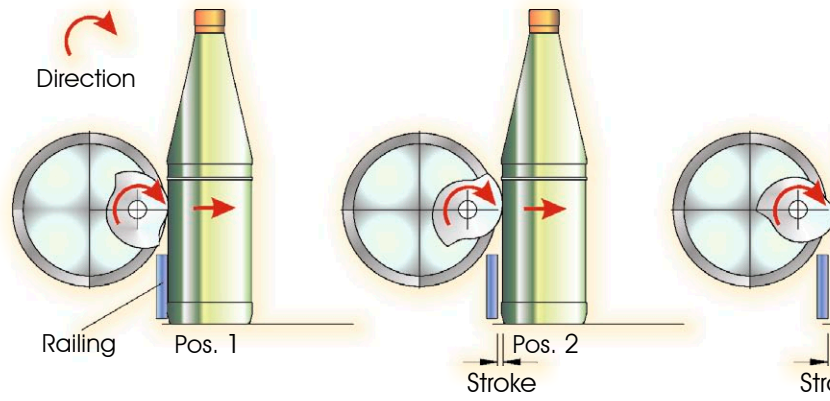


## BBULL BRUSH OFF

Rejection and Distribution System  
for Bottles and Cans

# PRODUCT SPECIFICATION



## General

As a result of the permanent increase of the containers' complexity and diversity high-quality sorting and distribution systems are necessary for a successful assurance of quality. Working precise, reliable and fast they enable a maximum product quality and there is no subsequent processing of defective goods. With its **BBULL BRUSH OFF** the **BBULL TECHNOLOGY** is a well-know specialist in the beverage and packaging industry.

All glass containers are reliably handled by this high-quality and robust system. So the BRUSH OFF will handle complicated containers under the most difficult conditions. Based on such an improvement you can organize your work flow more efficiently. Consequently your staff can focus on the really important work. Additionally all production processes can be optimized.

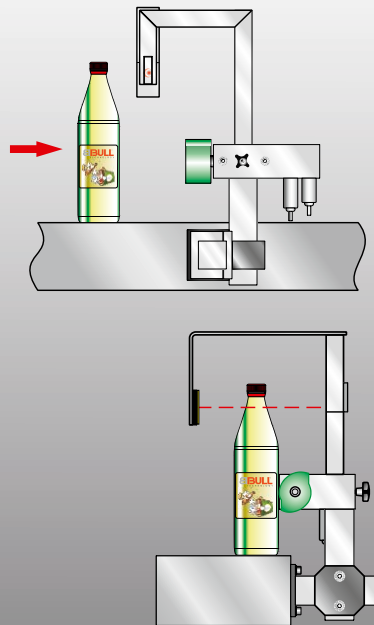
Using the **BBULL TECHNOLOGY** systems demonstrates a sustained and high awareness of quality. Doubtlessly the top quality of your products is the best sales argument towards your clients.

According to variable applications **BBULL TECHNOLOGY** offers different systems that are used depending on the requirements on the rejection systems.

## Operation Mode

The **Brush Off** System contains a rotating displacement body that was designed according to scientific findings. The rotational solid relates a well defined speed to the container to be sorted out. The displacement distance is equal independent on the containers being full or empty or on the conveyor speed being high or low.

When the current sorting is finalized the system is immediately ready for the next operation. Therefore the containers can be sorted and distributed at highest speeds and without gaps between the containers.



## Application

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

**BBULL BRUSH OFF** provides effective rejection for all round glass packages at all conveyer speeds. In areas of high performance, **BBULL BRUSH OFF** has been well proven in numerous applications and has low wear and tear in spite of high functional stability.

The system is recommended in combination with

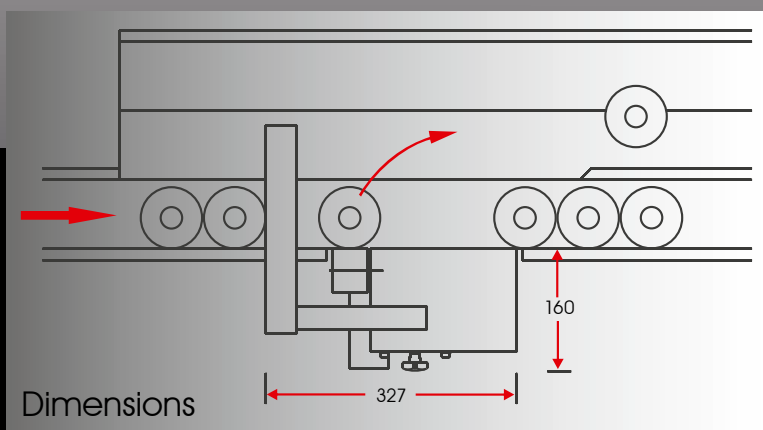
- the empty bottle inspector
- the sorting of bottles
- the filler management system

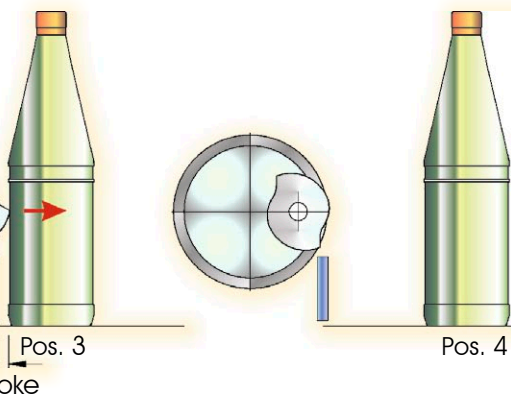
as well as for

- multy-lane distribution with a minimum amount of space
- a defined division of the bottle stream

## Application BOS

The system is suitable for distribution and sorting tasks in high-performance applications. Due to the compact and robust design it is especially qualified for high-speed multilane applications.





## Technical Principle

## BBULL BRUSH OFF Electronic

During the construction of this system, much attention was paid to the design that considers the standards of hygiene. The displacement unit is powered by a regulated DC motor. The system works without additional air supply as there is an electro magnetic power transmission.

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 standing rejection can be guaranteed not depending on the containers' mass.



**BBULL**<sup>®</sup>  
TECHNOLOGY

## Most Important Features

- guaranteed standing rejection and distribution of glass bottles and steel cans
- synchronisation of varying conveyor speeds
- exact regulation of displacement power
- defined distance of displacement independent of the container's fill level
- reliable rejection and distribution even if there is no gap between the containers
- very low wear and tear
- high performance stability
- integrated self-diagnosis
- TEACH IN procedure for signal interface

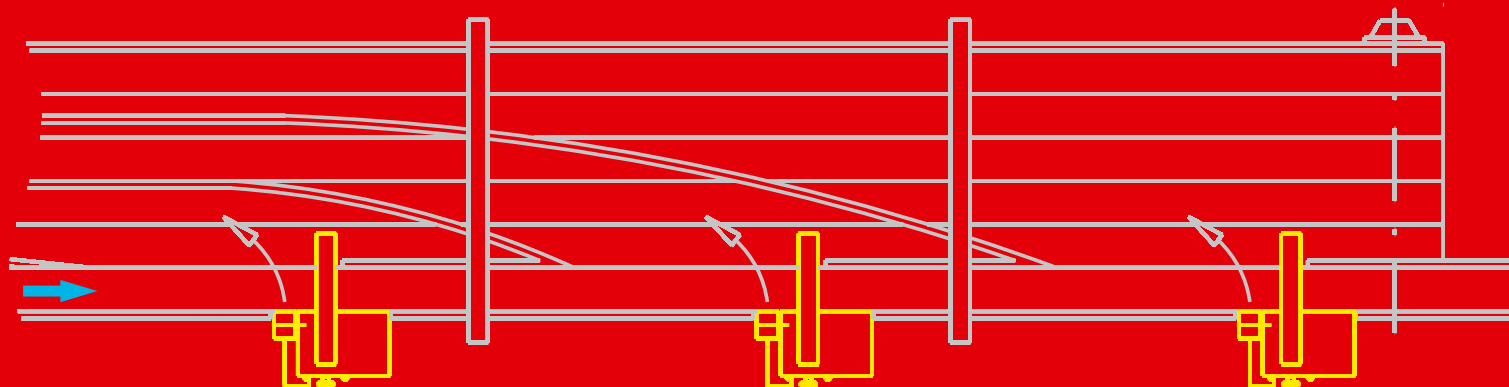
## BBULL BRUSH OFF Servo

(picture at front page)

The **BRUSH OFF Servo** is a further development of the well-established BRUSH Off Technology that meets all requirements of the medium and high level companies. The system is based on a regulated servo drive that defines

accelerating and positioning of the rotational solid in any situation. During this course of motion the containers to be rejected get a controlled displacement.

Compared with other expensive rejectors the modular design of the Brush Off Servo system will give you a quick possibility to exchange the components avoiding long shut down times. BRUSH Off Servo, developed on practical work, is a system with minimum wear and tear. The adaption of the system to the particular environment can be done with a software tool based on Microsoft Windows.



## Technical Data

	BRUSH Off Electronic	BRUSH Off Servo
Maximal output units per hour	up to 90.000	up to 60.000
Continuous output in units per hour	up to 80.000	up to 60.000
Maximal conveyor speed units per second	2,0	1,3
Maximal weight of the unit in kg	2,0	2,5
Overall height in mm	approx. 750 above belt	approx. 160 above belt
Overall width in mm	approx. 630	approx. 330
Overall depth in mm	approx. 540	approx. 500
Main power supply in V/AC/Hertz	230/50	230/50

## Product Range

Maximum performance in containers per hour	Sorting and Distribution								
	Sampling/Pulk			Single rejection (standing)			Fault rejection (non-standing)		
	Glass	Cans	PET	Glass	Cans	PET	Glass	Cans	PET
BRUSH OFF SERVO	80.000	80.000		90.000	90.000				
BRUSH OFF Electronic									
BINPUSH								120.000	120.000
SOFTPUSH				60.000			60.000		
SAMPUSH		100.000							
TRANSLINER Pneumatic	30.000	30.000		40.000	40.000*				
FLEX	60.000		50.000	70.000	70.000				
SNAKE	60.000	60.000	60.000	70.000	70.000	70.000			
SYNCHRON	60.000	50.000	50.000						

\*Minimum 20 mm residual liquid  
Higher performance on request

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