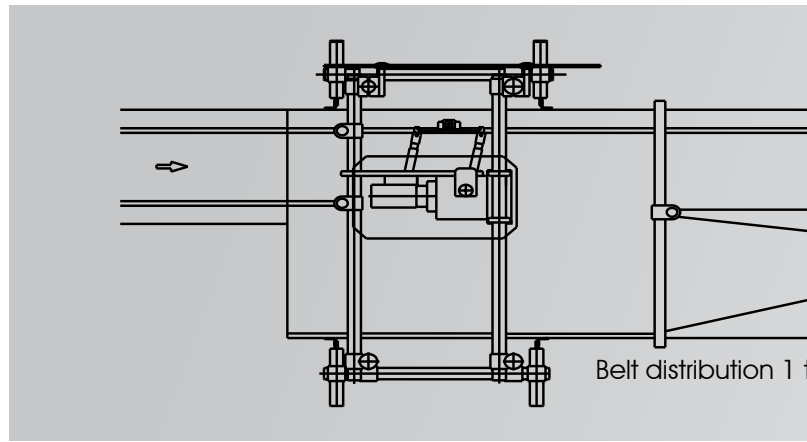


BBULL SINUS SORTER

Sorting and Distribution System
for Crates, Cartons and Trays

PRODUCT SPECIFICATIONS



General

The automation level of filling lines grows constantly in order to meet the market requirements such as cost pressure and quality awareness.

These growing demands have also changed the users' expectations in respect of the dry section.

Apart from the common crate inspection, rejection and distribution of the containers represent the main challenges for sorting systems. The filling requires a low-wear high-performance sorting system.

Our **BBULL SINUS SORTER** offers a sorting and distribution technology that meets these exceeding demands and marks a further improvement of quality and productivity in the filling industry.

Operation Mode

The **BBULL SINUS SORTER** system operates above the conveyor level and ensures a smooth transfer of full and empty containers. The containers are preferentially displaced on existing hinged slat chain conveyors. Displacement is possible to conveyors running parallel as well as to conveyors running right-angled.

The container to be rejected is accelerated proportionally in the operation process.

A constant and precisely adjustable displacement distance can be reached for full and empty containers, as the displacement energy is divided over a longer period of time and the acceleration is regulated.

System malfunctions due to any contamination are as far as possible excluded, since the system is installed above the conveyor level. The exceedingly low-wear and reliable system with a technology facilitating easy maintenance and servicing.

Upon completion of the displacement movement the displacement plate is raised pneumatically in order to make way for the next container to enter the operation area. So unnecessary big gaps between the containers in the sorting area can be avoided.

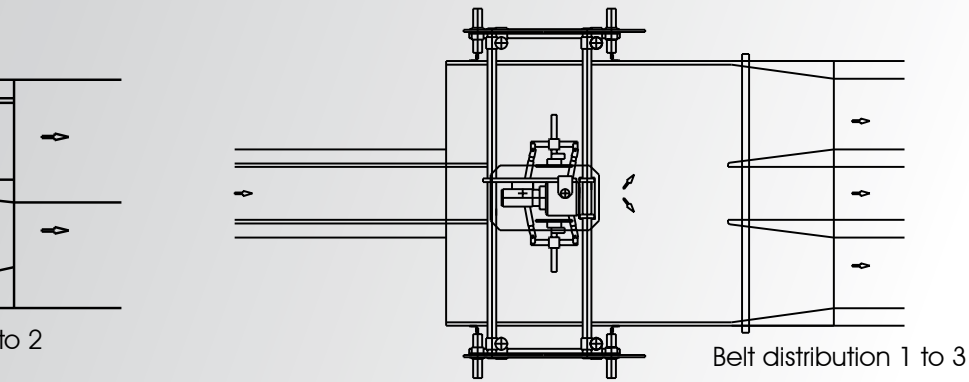
Application

Smooth transfer is a characteristic of the **BBULL SINUS SORTER** system. The system operates reliably detecting crates, cartons, trays and six-packs. The **SINUS SORTER** technology has already proved its value in numerous high-performance applications

The system is used in combination with

- crate detection
- constant distribution of the containers

It is also used for compact multi-line distribution requiring minimum space.



Main Features

- sinusoidal and therefore optimal lateral acceleration of the container
- all performance parts are mounted above the container to avoid functional impairments due to dirt
- constant displacement distance (adjustable)
- very low wear and tear technology
- superior reliability
- signal transmission via teach-in

We offer various systems to be used according to the different requested applications existing in the distribution technology.

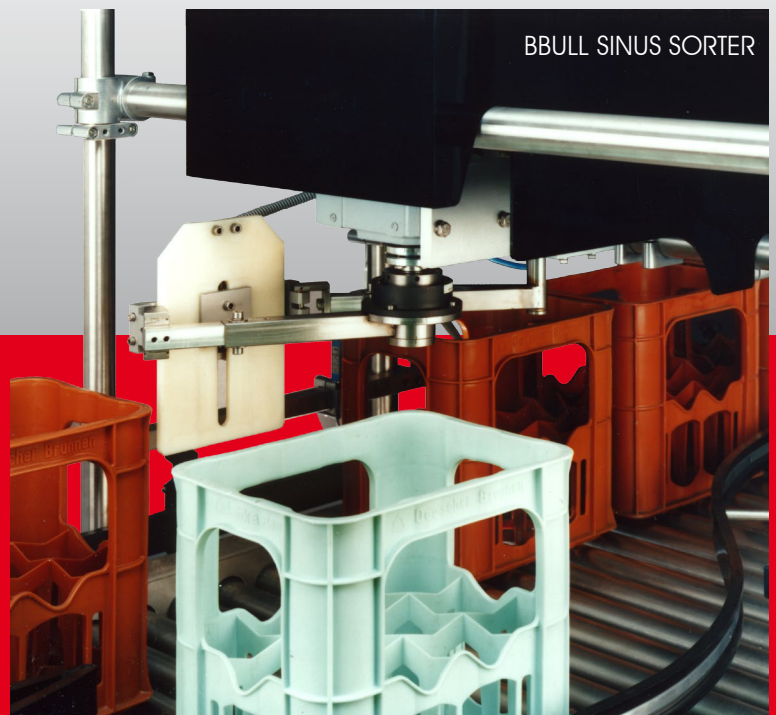
BBULL SINUS SORTER

The operation is performed by a servo drive. The upstream servo-converter guarantees best repeatability even in high performance ranges. The container to be displaced is accelerated by a sinusoidal motion and transferred to the output conveyor at a defined speed ensuring that the displacement distance remains independent from mass.

BBULL SINUS SORTER 1 to 3

(see front page)

The **BBULL SINUS SORTER 1:3** has been specially designed for sorting and distributing containers from one input conveyor to three output conveyor. The displacement elements are lowered alternately in order to displace the containers to the opposite conveyor.



Technical Data



	SINUS SORTER	SINUS SORTER 1 to 3	CRATE PUSHER pneumatic	LINEAR SORTER	DUAL SORTER
Continuous output in units per hour	up to 7.000	up to 7.000	up to 4.500	Depends on the complexity of the distribution task	up to 8.000
Short-term peak output in units per hour	up to 8.000	up to 8.000	up to 4.500	Depends on the complexity of the distribution task	up to 8.000
Maximum delivery capacity in metres per second	0,8	0,8	0,45	approx. 0,8	0,9
Compressed air supply in bar	min. 4	min. 4	min. 6	min. 6	min. 6
Overall height in mm	approx. 1.300 above belt	approx. 1.300 above belt	approx. 300 above belt	approx. 800	approx. 625
Overall width in mm	approx. 1.000	approx. 1.000	approx. 200	approx. 1.000	approx. 1.030
Overall depth in mm	approx. 600 + belt width	approx. 600 + belt width	approx. 300	approx. 1.000	approx. 450
Main power supply in V AC with neutral/Amps/Hertz	3 x 400/16/50	3 x 400/16/50	1 x 230/--/50	3 x 400/16/50	1 x 230/--/50
Internal voltage for electronics in V DC	24	24	24	24	24

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