

MSK bottle conveyor systems

Intelligent bottle flow from the lehrs to the palletizer



Clean Design: Stainless steel body and premium components

Flexibility ensured through a modular system with expansion options to accommodate future requirements



Low energy consumption and low wear



Interfacing to inspection equipment

Easy parametrization

Dynamic control

Automatic glass container transportation ▶

MSK bottle conveyors are adaptable to different demands, depending on the kind of glass to be transported.



▲ **Premium components for long-lasting use**

MSK employs premium parts for its bottle lines. The stainless-steel conveyor profile considerably reduces wear and ensures that operation is continuous. Special MSK technology for chain recirculation reduces material stress to a considerable degree and avoids costly malfunctions. Plastic inserts are used for straight conveyors. Curve conveyors use self-lubricating UHMWPE plastic.



▲ **A modular system for a high degree of flexibility**

The modular construction of MSK bottle conveying with adjustable guard rails allows for a high degree of flexibility, the fully automatic flow of your bottle transport and the best possible layer preforming. The conveyors are available in clean design as well as in HACCP conform design for all parts.



◀ **Bottle accumulation tables**

Accumulation of bottles after the lehr or within the bottle flow is designed by accumulation tables, inspection tables or merry-go-round tables.



▲ **Efficient bottle aligning**

MSK bottle conveyor systems take charge of your glass containers following the lehr and ensure that an optimum bottle flow is maintained through efficient aligners.



▲ **Standardized connection to inspection machines**

MSK bottle conveying lines include standardized interfacing with all major inspection machine types.

Hygienic transport of your products ▶

To ensure hygienic conveying of the bottles, MSK optionally offers metal covering for your products. All drives use food grade oil.



▲ **Vertical side grip conveyors**

For space saving or special logistical requirements, MSK offers bottle conveyors with side grip technology such as vertical conveyors, omega conveyors, bottle bridges and bottle elevators. The vertical side grip conveyors can be equipped with bottle blowout and vibration facilities.



▲ **Bottle elevator**

Once the bottles reach the gripper chains, they are taken off the conveyor and led along the guides. The bottle elevator conveys to another floor level.



◀ **Omega conveyor**

MSK omega conveyors are used for passages as well as for turning and cleaning the bottles with an air blow.



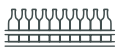
◀ **Bottle dividing tables**

When it comes to standard container shapes, MSK employs bottle dividing tables for multiplying bottle rows.



◀ **Servo divider units**

MSK conveys glass containers individually and automatically through the use of divider units.



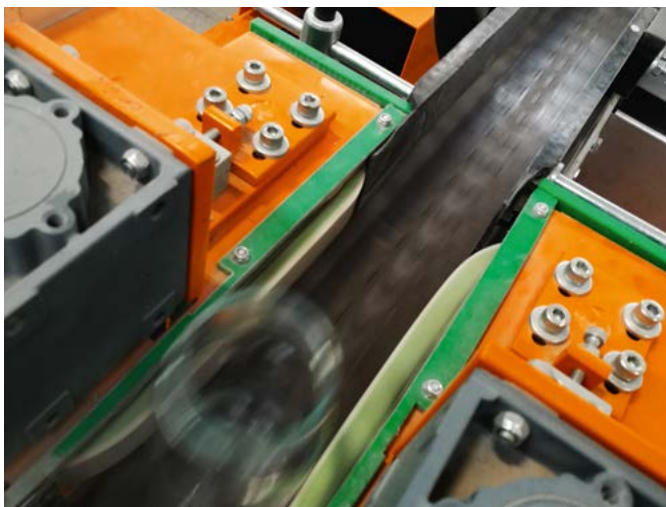
Dynamic divider

For special container shapes, the dynamic divider is the most reliable solution, with a conveying speed of up to 300 bottles per minute, depending on the bottle size.



Continuous Motion Divider

The Continuous Motion Divider distributes the glass containers to four or more lines without pressure. No empty spaces occur between the individual glass containers.



Spacer

The MSK spacer serves the glass containers on to an inspection machine at evenly spaced distances.



◀ **Bottle ejector and cullet conveyor**

The bottles produced are returned to the cullet processing system via the bottle ejector. The cullet conveyor transports the disposed bottles to the cullet processing plant.



◀ **Backlight screen**

MSK offers backlight screens for visual control of the bottles.



◀ **Equipped to meet future requirements**

MSK bottle conveyors are designed to accommodate tomorrow's requirements and can be expanded easily. A particular advantage is the equipping of the sides with fixtures for sensors, marking systems and other accessories as a standard feature. Additional components can therefore be fitted quickly and without complications during active operation.

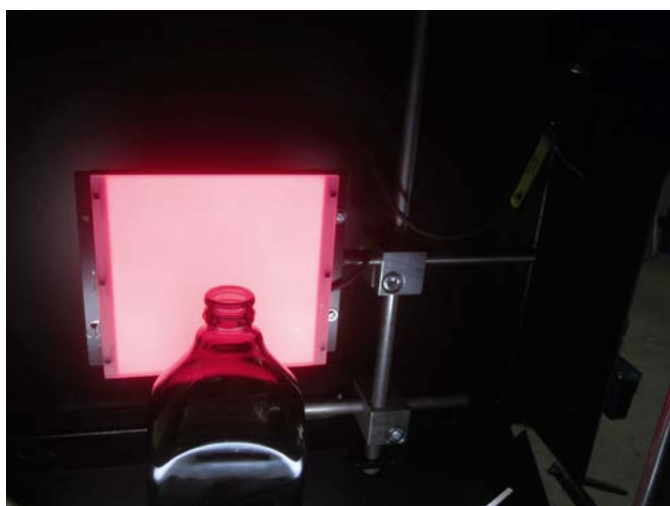
▼ **Compact MSK bottle orientor**

The increase in special shapes in glass container production requires high flexibility of the Cold End with low space consumption. MSK offers a bottle orientor that is characterized by an extremely compact size.



Flexibility by design

The MSK bottle orientor is set up on a mobile frame. It can be docked laterally without mechanical changes to different bottle conveyor lines. This simple flexible integration enables use of the MSK bottle orientor on several bottle lines.



▲ Bottle specifications

The aligning capacity in the standard version is 150 bottles per minute for bottle heights of min. 80 mm, max. 400 mm and bottle diameters of max. 130 mm. Higher capacities, as well as other specifications, can be provided upon request.



▲ Quick and simple control system

Connection to the bottle conveyor line's control is easily done using industrial plugs making it particularly user-friendly. The MSK EMSY enables automatic recognition of the MSK bottle orientor's visualization and HMI. The bottle line's bottle parameters are easily transferred to the bottle orientor through the HMI.

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