

miho

HSP

High Speed Pusher



The miho **HSP** is a reject system that pneumatically rejects containers from the production process. It can be used for the rejection of cans and glass or PET bottles. In each of these cases the pusher is used with exactly the right lift and has a specially designed reject block so as to ensure the maximum level of reject precision.

The simple, cost-efficient construction principle of the miho **HSP** has been optimized through intelligent details so that the different reject requirements are fulfilled on an optimum basis (see page 2). Several thousand installations worldwide fulfill their requirements every day: reliably, almost free of wear and tear and with a high level of continuity.

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HSP

Technology and area of use

Functional principle

The miho **HSP** is a pneumatic system where containers can be rejected by using a pneumatic cylinder. It has been possible to improve the precision of the reject process in comparison to traditional pneumatic reject systems through the use of many different constructional details:

Motion path of the reject block

The reject block of the miho **HSP** moves by sloping downwards. It therefore has in addition to the horizontal motion (C), that pushes the container out of the production line, a downwards vertical movement (B). This means that an additional force (B) is present at the bottom of the container being rejected whilst it is in contact with the reject block. This significantly improves the stability of the container during the reject process.

Defined contact surface of the reject block

The height (H) of the point of contact between the reject block and the container affects the stability during the reject process. The miho **HSP** enables the point of contact to match the height of the container as best as possible vertically. This means that in contrast to

reject blocks with a large surface the height at which the reject force is transferred can be adjusted for slanting or irregular containers.

Horizontal adjustment of the reject block

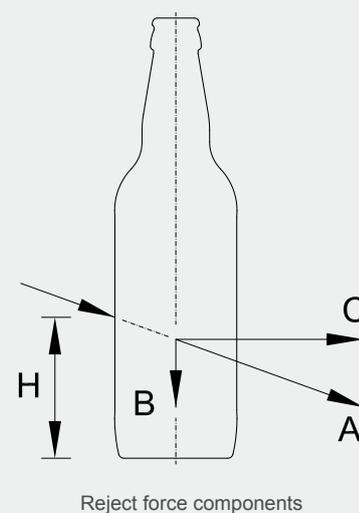
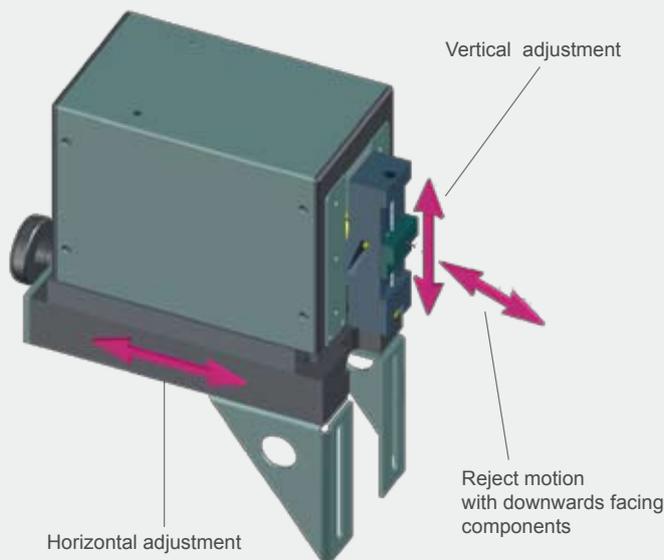
If several container types with different diameters are filled on one production line then it may be wise to adjust the main position of the reject block horizontally. The miho **HSP** therefore offers the option of a horizontal adjustment unit. One important detail here is that the conveyor railings are also automatically adjusted using an adapter.

Area of use

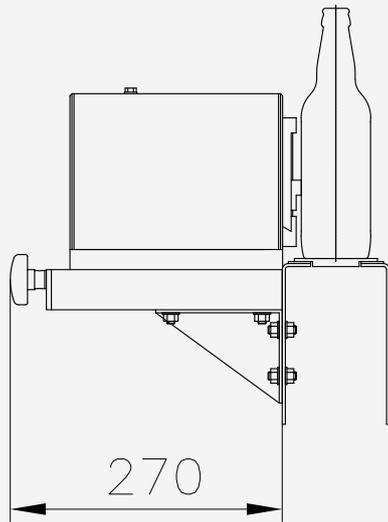
The miho **HSP** can in addition to being used for the rejection of glass bottles also be used for the rejection of cans and PET bottles. It is equipped with specially designed reject blocks.

The output for production lines can be up to 120 000 containers/hour.

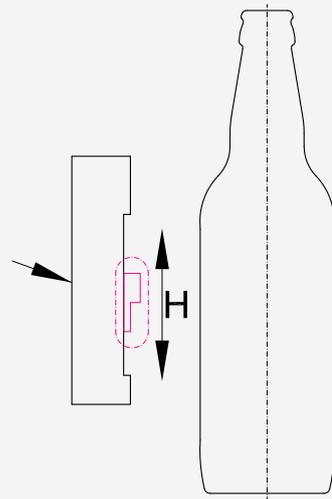
The miho **HSP** can be controlled from all miho machines and from external machines using a suitable interface.



HSP: Mechanical drawings



Side view



Detail: Vertical adjustment

Installation example:

