

Mobile Lump Breaker Station

For mobile applications

Reliable crushing of lumps

Sturdy, compact design

Wear resistant and energy saving

The task

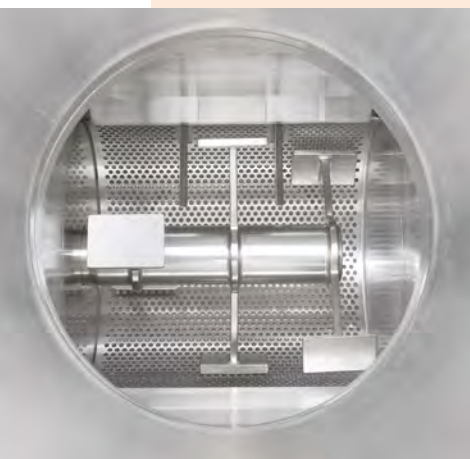
In the foodstuffs, pharmaceuticals, chemical and plastics industry, raw materials delivered in sacks frequently tend to form agglomerates, accumulations and lumps. As these raw materials often have to be charged at different locations, a mobile station is necessary.

The solution

In order to overcome this task, AZO developed a combined filling and lump breaker station. An AZO lump breaker, type KB 300 Q, was equipped with an inlet funnel and integrated into a mobile unit. Thanks to a special docking device, dust-free filling of the customer's container via

a cover with inflatable seal is possible anywhere and at any time. Cleaning in place (CIP) is performed in several steps. The station is operated via the attached switch cabinet with integral operating elements.

SYSTEMS



The benefits

- Mobile lump breaker system can be employed anywhere in the production facility
- Reliable crushing of agglomerates, accumulations and lumps
- Dust-free filling of the containers
- Station can be dismantled for cleaning completely without the use of tools
- Simple cleaning using the CIP process
- Quick inspection thanks to extraction devices
- Operator protection with approved safety devices

How it works

Bulk materials with agglomerates, accumulations and lumps are charged into the AZO lump breaker via the inlet funnel that is equipped with a safety switch. The product enters the crushing unit where it is crushed and discharged through the sieving screen into the container below. A given maximum grain size can be assured by means of the

mesh width of the sieving screen. An inflatable seal ensures a dust-tight connection between lump breaker outlet and collecting container. For transport without collecting container, the lump breaker outlet can be closed off using a trickle guard slide.

CIP – Cleaning

For cleaning of the lump breaker station, a spray lance is installed in the cover of the inlet funnel. The CIP tank with spray lance is then positioned under the lump breaker outlet. The gap between tank and lump breaker outlet is closed off by means of an inflatable seal. Before cleaning, all breaker rails and the screen must be removed. The screen is

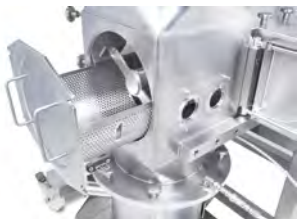
replaced with a dummy cover. Cleaning is performed in several steps; the sequence can be determined by the customer.



Lump breaker station with collecting container



Lump breaker station with spray lance and CIP tank



Lump breaker station with removable sieving screen



Cover of the inlet funnel with quick-release fasteners and safety switch



CIP tank for cleaning of the lump breaker station