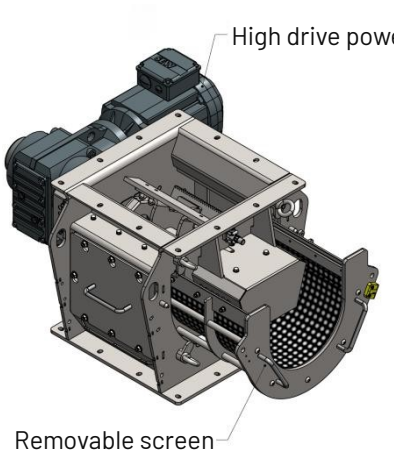
LUMP BREAKER

LBS



DESCRIPTION

The unit breaks up agglomerates and lumps in bulk materials prone to caking.

The LBS lump breaker consists of a rigid housing with inlet and outlet flanges, a crushing rotor and a geared motor.

The unit is intended primarily for the food and pharmaceutical industries and therefore meets the highest standards of hygiene and ease of cleaning. The screen can be removed without tools, and the crushing rotor and its replaceable blades are easily accessible. The lump breaker can be made of 1.4301 (AISI 304) or 1.4404 (AISI 316L) steel with various surface finishes, including ground and electropolished.

SPECIFICATION

- Three models: LBS2020, LBS3030 and LBS3050
- SEW geared motor 3 × 400 V AC
- Replaceable screens with 1–25 mm apertures, made of perforated plate or woven steel mesh
- Replaceable blades on the crushing rotor
- Air-purged seal
- Optional tool-free screen removal with opening sensor

DESIGN

- AISI 304 stainless steel (glass-bead blasted or electropolished)
- AISI 316L acid-resistant stainless steel (glass-bead blasted or electropolished)
- Optional Ex version for hazardous areas
- Optional hygienic design with ground internal surfaces

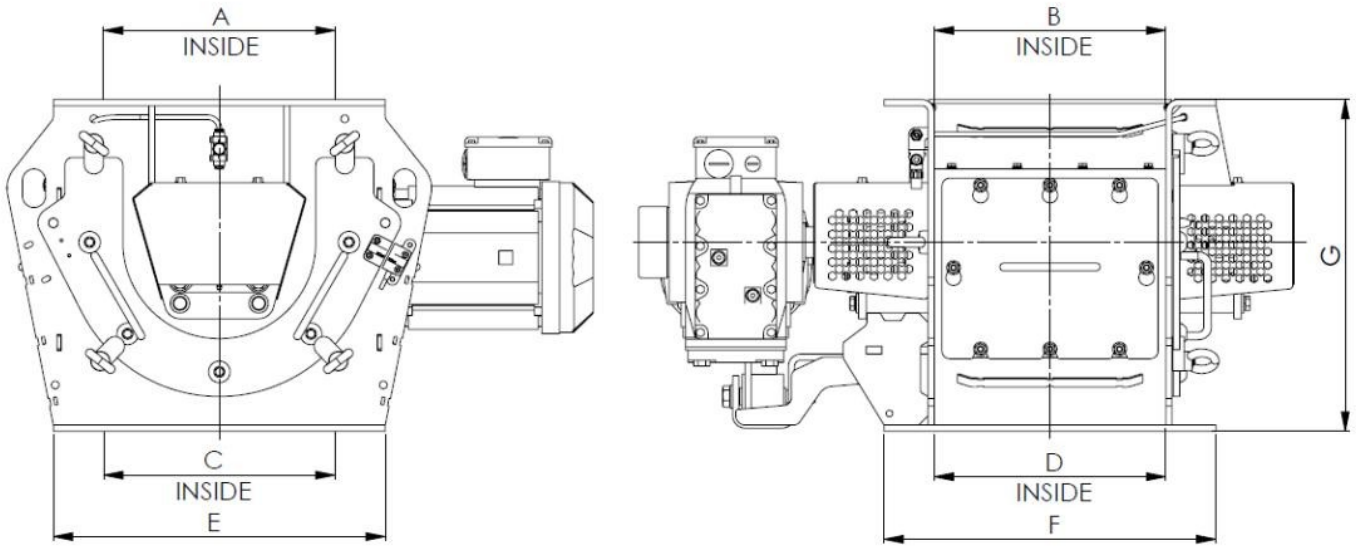
APPLICATIONS

- After storage of bulk material in a silo
- Below a BIG-BAG discharge station or bag dump station
- After drying or mixing of bulk products
- After screening of material
- Upstream of a pneumatic conveying system
- Upstream of a process requiring a specific particle size

HOW IT WORKS

Bulk materials containing agglomerates, clumps or lumps are fed into the LBS lump breaker. The crushing rotor breaks up the product, which then passes through the screen to the next stage of the production process. The crushing rotor consists of replaceable blades mounted on a low-speed shaft. Crushing is by breaking and cutting, not grinding. The maximum particle size is determined by the screen aperture.

DIMENSIONAL DRAWINGS



Model	Inlet dimension A [mm]	Inlet dimension B [mm]	Outlet dimension C [mm]	Outlet dimension D [mm]	Dimension E [mm]	Dimension F [mm]	Height G [mm]	Nominal drive power [kW]	Maximum capacity [m^3/h]
LBS2020	200	200	200	200	330	330	330	1,1	1,5
LBS3030	300	300	300	300	430	430	430	2,2	6
LBS3050	300	500	300	500	430	630	430	4	11

