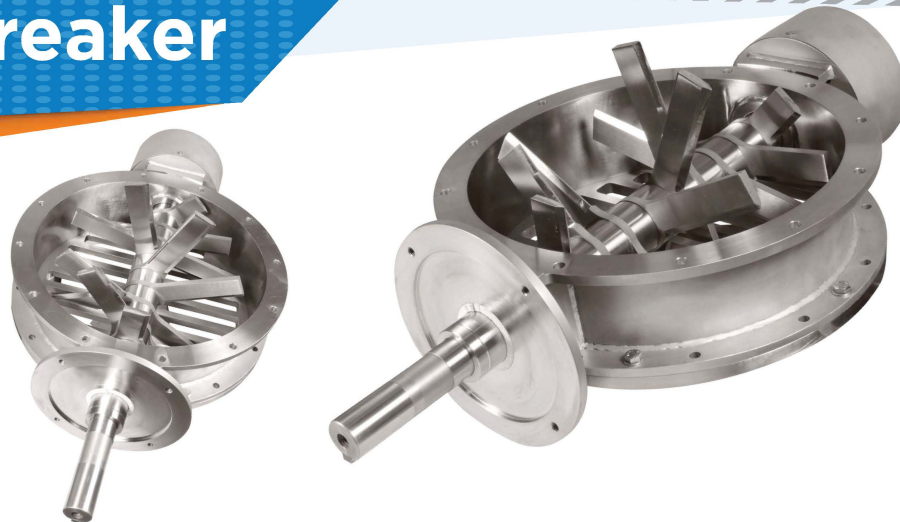


Lump Breaker



LUMP BREAKER

Lump Breakers are used across many industries to reduce agglomerated, compacted, or oversized materials into smaller or uniform pieces. Their main function is to improve product flow, prevent equipment clogging, and ensure consistent processing.

To achieve uniform product transfer from Bag Dumping Station, Storage Bin, Hopper, Silo, Big Bag Discharge Station, the breaking chopper knives crush the lumps against stationary combs. The material is reduced to smaller or required pieces. The crushed materials discharge or moves to downstream equipments like Feeders, Mills, Mixers, Filling Equipment, Process Equipment and Conveyors.

FEATURES

1. Robust construction heavy-duty housing in Mild Steel or Stainless Steel (SS304/316). Designed to handle tough, abrasive, or dense materials.
2. Chopping Knives made of hardened material withstand high torque and aligned to minimize clearance for efficient lump breaking.
3. Stationary Comb plates to control particle size with optional easily removable comb for custom output sizing.
4. Sealed housings to prevent dust leakage.
5. Customizable inlet/outlet flanges for process integration.
6. Variable Speed Drive (VFD) -Adjustable rotor speed to handle different material types and flow rates.
7. Low Headroom Design-Compact footprint allows installation in tight spaces or retrofits.

OPTIONAL FEATURES

- Food/Pharma-Grade Finish (Mirror Polished, Crevice-Free).
- Cooling Jackets for Heat-Sensitive products.
- Wear-Resistant Liners (Ceramic, Tungsten Carbide).
- Mobile/Lab-Scale units for testing or small batch production.

APPLICATIONS OF LUMP BREAKER

1. **Chemical Industry** - Breaking down hygroscopic or heat-sensitive chemical lumps formed during storage.
2. **Food & Beverage** - Crushing lumpy ingredients like Sugar, Salt, Flour, Spices, Cocoa Powder, or Milk Powder.
3. **Pharmaceutical Industry** - Ensuring smooth flow of Active Pharmaceutical Ingredients (API) and Excipients.
4. **Mining & Minerals** - Reducing size of compacted Minerals, Lime, or Gypsum.
5. **Cement & Building Materials** - Breaking hardened Cement, Clinker, or Lime prior to Conveying or Milling.
6. **Plastics & Polymers** - Handling Resin clumps or Polymer chunks before extrusion or Molding.
7. **Fertilizer & Agriculture** - Crushing caked fertilizer granules to prevent bridging in Silos or Hoppers.

Lump Breaker

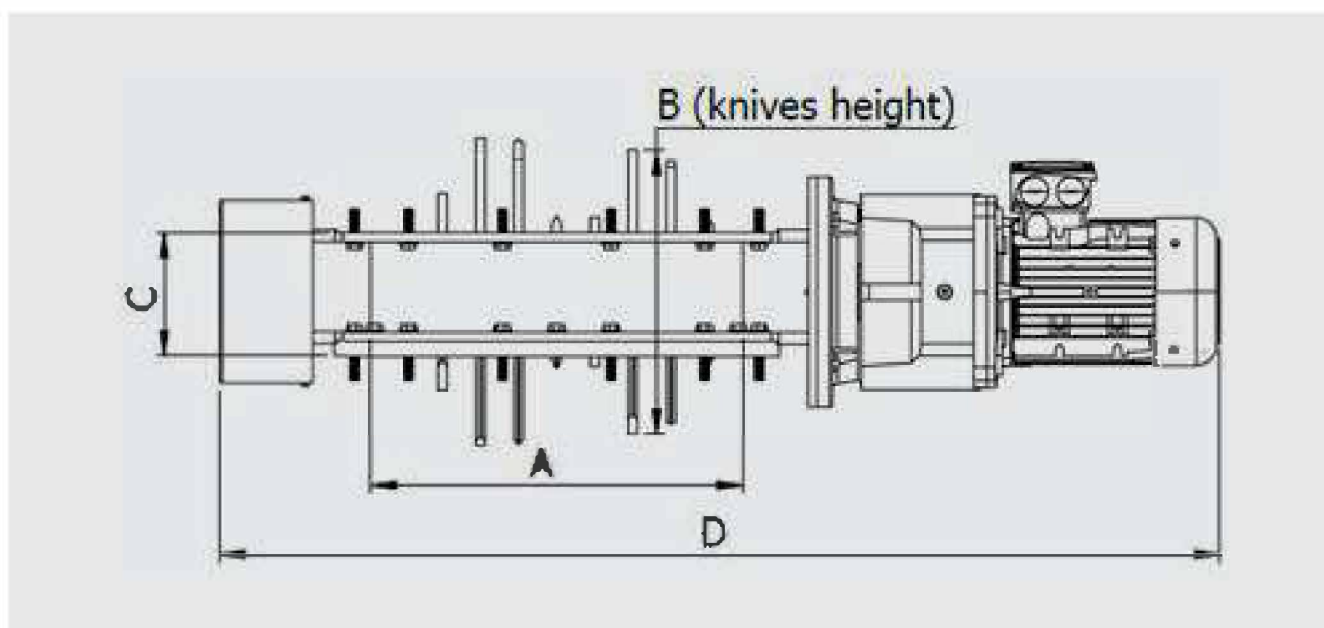
Why Use a Lump Breaker?

Problem

- Bridging or Rat-Holing in Silos
- Uneven ingredient mixing
- Blockage in Pneumatic Conveyors
- Damage to downstream equipment

How a Lump Breaker Helps

- Breaks down clumps to restore material flow
- Ensures consistent particle size
- Prevents clumps from clogging pipelines
- Protects Mills, Feeders, and Packaging Machines



Model	Size(MM)				Drive Power(KW)
	A	B (Knives Height)	C	D	
LBR150	150	150	125	850	0.5 - 1.0
LBR200	200	200	125	900	0.75 - 1.5
LBR250	250	250	150	950	1.0 - 3.0
LBR300	300	300	150	1050	1.5 - 4.0
LBR400	400	400	175	1150	2.2 - 7.5
LBR500	500	500	175	1250	3.0 - 11.0

Manufactured By

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