

# Lump Crusher



## LUMP CRUSHER

A Lump Crusher is a mechanical device used to break down large lumps, clumps, or agglomerates of material into smaller, more manageable pieces. It's commonly used in industries like Food Processing, Pharmaceuticals, Chemicals, Mining, Plastics, and Agriculture.

Bulk material containing lumps is fed into the lump crusher usually through a hopper or chute. Feeding can be manual, via Conveyor, or directly from a Silo or Bin. Inside the housing with combs, chopper knives break down the lumps. The units use a combination of impact, compression, and shear forces to reduce the materials size in smaller or required pieces. The reduced material pass through combs and ensure consistent output size. Crushed material discharged by Gravity, Screw Conveyor or Pneumatic System.

## FEATURES

Robust Construction Housing with Mild Steel or Stainless Steel to handle abrasive or tough materials. Designed to resist corrosion, wear, and impact. Compact and Space-Efficient design, can be installed directly under Silos, Hoppers, or Conveyors. Designed for easy integration into existing production lines. Crushing chopping knives designed with high resistance materials and withstand impact, compression, or shear forces. Combing is easily replaceable and to control output particle size. Customizable Inlet and Outlet Sizes. Low Maintenance moving parts and simple internal mechanisms reduce wear and tear. Easy access for cleaning, chopper replacement, or comb servicing. Dust-Tight & Hygienic for Food, Pharma, and Chemical Industries. Chopping knives derived by a direct geared motor or chain drive with optional variable-speed and bearing supports equipped with PTFE sealing. Designed with dampers or mounts to minimize operational noise and vibration.

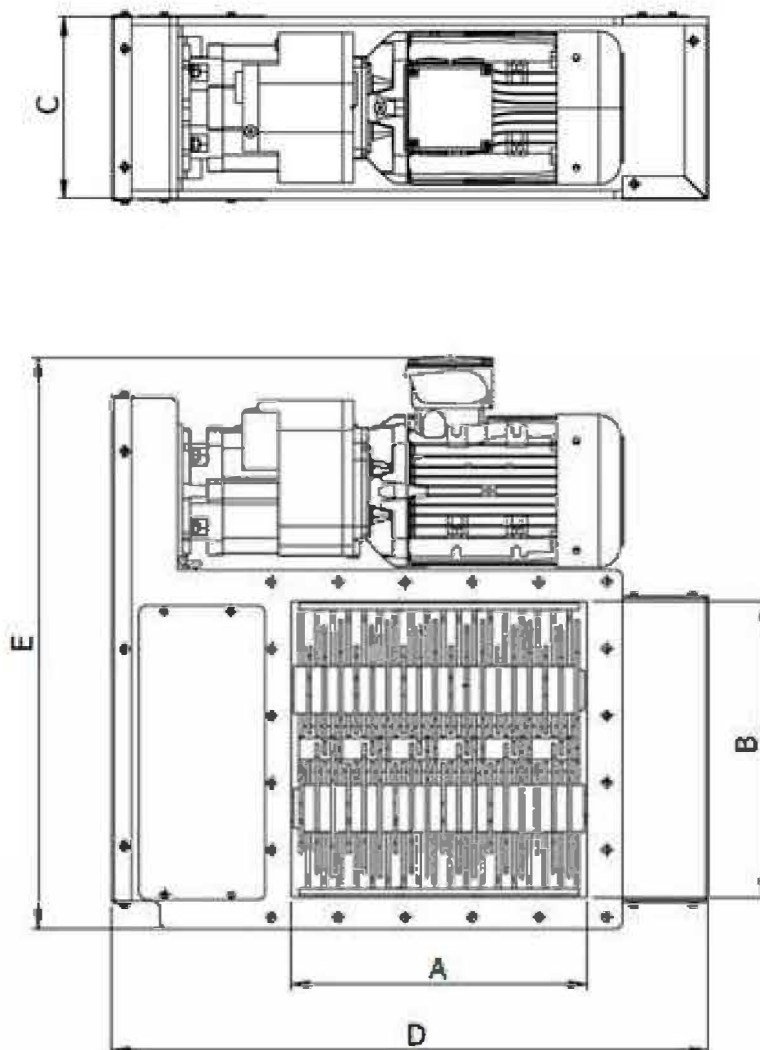
## OPTIONAL FEATURES

- Food/ Pharma-Grade Finish (Mirror Polished, Crevice-Free).
- Wear-Resistant Liners (Ceramic, Tungsten Carbide).
- Mobile/ Lab-Scale units for Testing or Small Batch Production.

## APPLICATIONS OF LUMP CRUSHER

1. **Chemical Industry** - Delumping hygroscopic materials like Chemicals Calcium Carbonate, Pigments, Detergents, Resins, Fertilizers.
2. **Food & Beverage Industry** - Breaking up lumps in Sugar, Salt, Flour, Cocoa Powder, Soup Powders, Baking Soda, Starches, Powdered Milk or Spices.
3. **Pharmaceutical Industry** - De-agglomerating active pharmaceutical ingredients like Vitamins, Excipients, Powdered Antibiotics.
4. **Construction & Cement Industry** - Crushing hardened clumps of Cement, Gypsum, or Lime.
5. **Mining & Minerals** - Size reduction of Minerals, Clays, Limestone, and Ores before further grinding or processing. Examples : Bauxite, Bentonite, Silica, Coal Lumps.
6. **Recycling & Waste Management** - Breaking down agglomerated materials in Recycled Plastics, Rubber, or Metal Waste.
7. **Agriculture & Feed** - Lump reduction in Animal Feed, Fertilizers, or Grain-based Products.

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Model	Drive Power (KW)	Shaft Speed (RPM)	Size(MM)				
			A	B	C	D	E
LCR350	3.0 - 5.5	220	375	375	250	800	750
LCR550	5.5 - 7.5	185	550	550	350	950	900
LCR750	7.5 - 11.0	175	750	750	450	1350	1300

**Manufactured By**

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