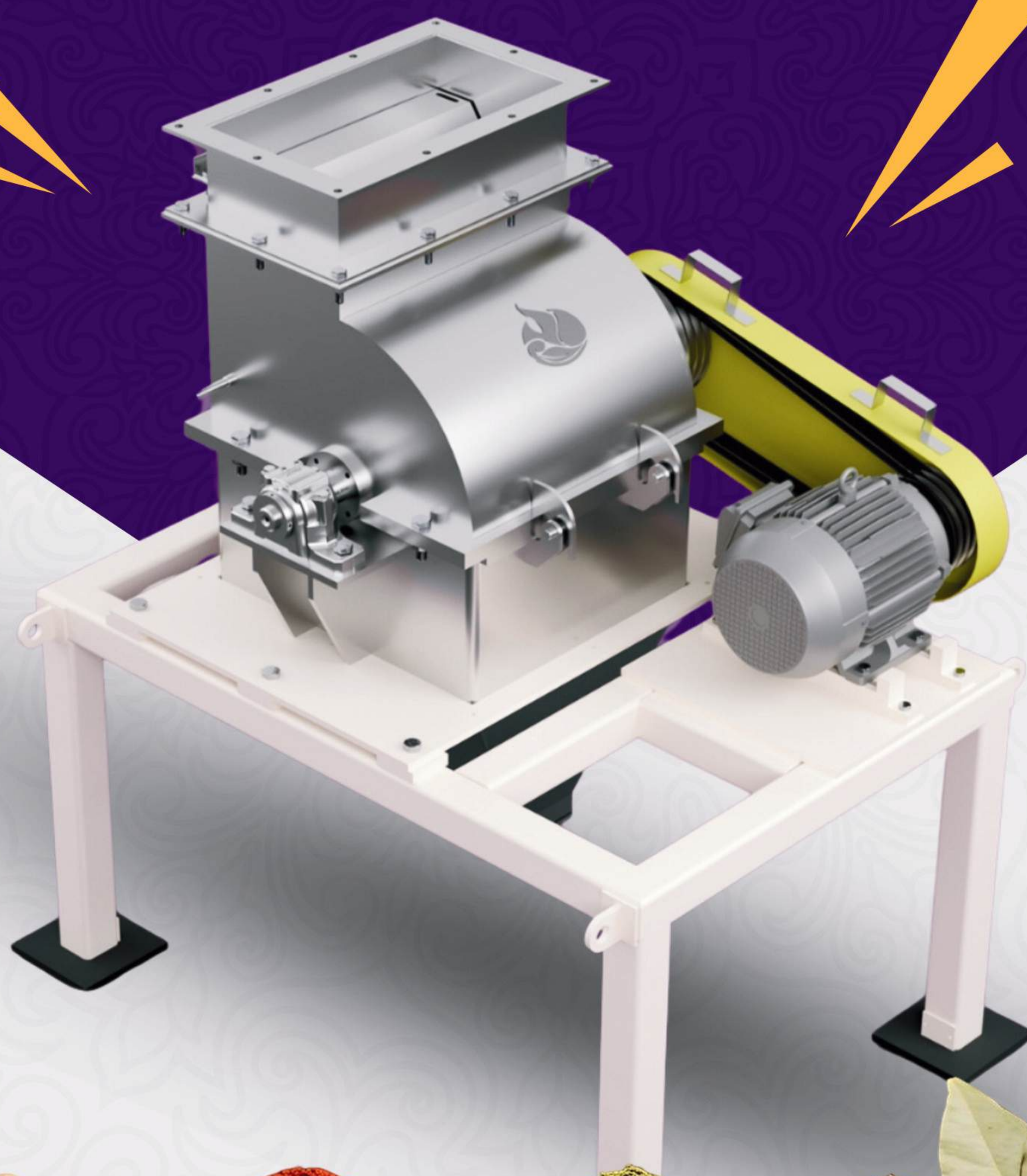




DELUMPER

Lump Breaking for Stable Powder Flow
in Food & Industrial Lines



Delumper Manufacturer & Supplier | India

ENGINEERING THE FUTURE OF PROCESSING

www.millnest.com

PRODUCT OVERVIEW

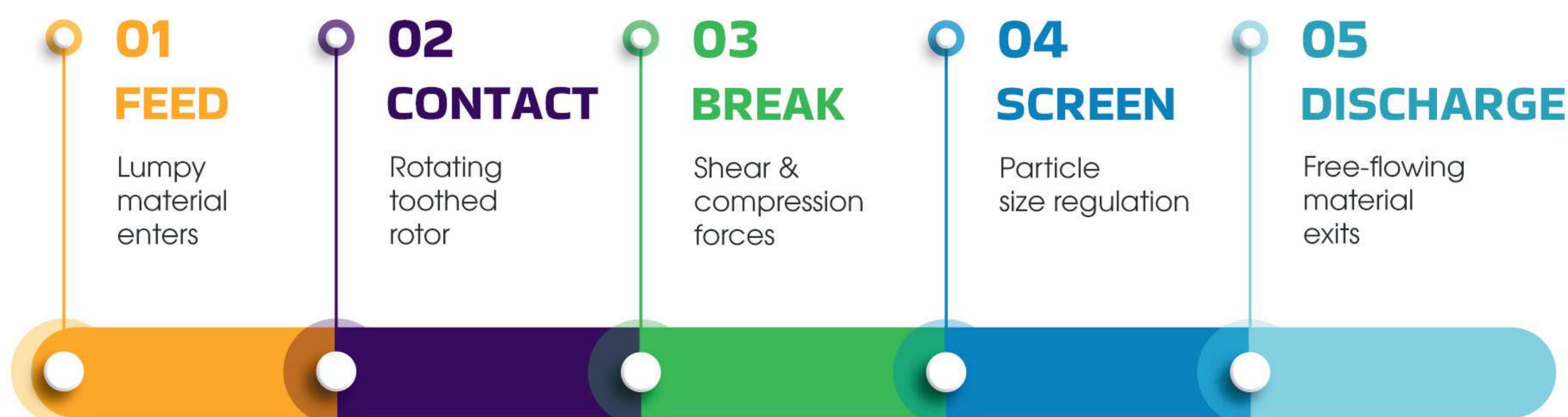


What is a Delumper?

A lump-breaking system that restores flow to caked and agglomerated powders. Controlled, low-speed rotor action helps break lumps while limiting excessive fines, supporting steady feeding to downstream equipment such as blenders, sifters, and packaging systems. Output depends on material behaviour, screen selection, and speed setting.

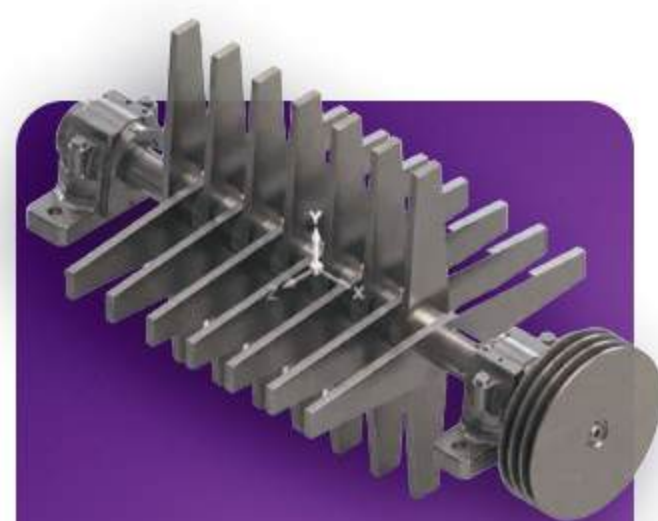


How It Works



Original Line Components

Recommended wear & service components :



ROTOR ASSEMBLY

Toothed/pin configurations



SCREENS

Fixed precision ground edges



BEARINGS

Heavy - duty sealed unit



DRIVE BELTS

Industrial grade



Fast-moving critical spares supported



Genuine parts help maintain original performance

Particle Size Capability

SOFT LUMPS

HARD AGGLOMERATES

Low Speed-
100 RPM

Medium Speed
200-300 RPM

High Speed
400-500 RPM

Maximum
600 RPM

Dairy powder

Spice Caking

Sugar Lumps

Compacted
Chemicals

Screen Range: **2-20mm adjustable** | Lump Hardness: **Soft to hard agglomerates**
Speed Control: **VFD adjustable breaking force**

Technical Specifications — MLUM Series

Model	Capacity(kg/hr)	Motor Power (kW)	Speed Range (RPM)	Footprint L x W x H (m)
MLUM-250	100–500 kg/hr	1.5–3.7 kW	100–400 RPM	0.8 x 0.6 x 0.9 m
MLUM-500	500–1500 kg/hr	3.7–7.5 kW	100–500 RPM	1.0 x 0.8 x 1.2 m
MLUM-1000	1500–3000 kg/hr	7.5–15 kW	100–600 RPM	1.3 x 1.0 x 1.5 m
MLUM-2000	3000–5000 kg/hr	15–22 kW	100–600 RPM	1.6 x 1.2 x 1.8 m

Note: Specifications are indicative and may vary with material characteristics, feed condition, target particle size, selected configuration, and the connected airflow/collection system where applicable. Footprints are approximate and can change with inlet–outlet orientation, drive arrangement, safety/accessories, and line integration; final sizing should be confirmed through application data or trials.

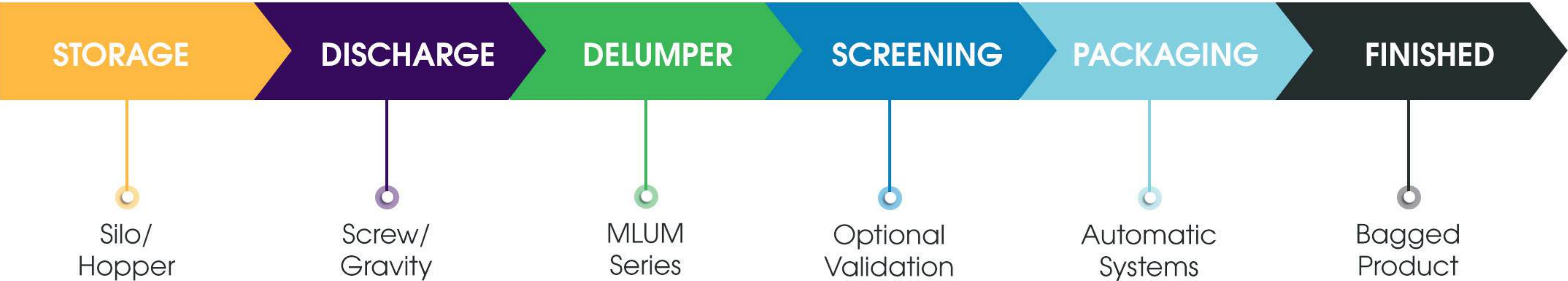
- 

Construction:
SS304/SS316L contact parts,
electropolished finish
- 

Screen Range:
2–20mm quick-change
design
- 

Feed Options:
Gravity / Screw conveyor
/ Inline mounting

Integrated Grinding System



Turnkey Solutions Available — Inline integration to downstream processing

Applications

 HYGROSCOPIC SPICES	 DAIRY & FOOD	 PHARMA	 INDUSTRIAL
Onion powder	Milk powder	APIs	Detergents
Garlic powder	Dairy ingredients	Excipients	Fertilizers
Ginger powder	Sugar	Herbal extracts	Pigments
Amchur	Salt	Vitamin premixes	Chemicals
Citric acid	Instant mixes	Mineral blends	Plastic additives
Food acidulants	Beverage powders	Nutraceuticals	Colorants



MillNest Originals

Refurbished Equipment Program

Select machines rebuilt under MillNest standards. Each unit is inspected, restored with genuine parts where required, and function-tested for dependable operation. Availability depends on incoming equipment and rebuild scope.

- ✓ Warranty as per rebuild scope
- ✓ Typically shorter lead times
- ✓ Spares and service support
- ✓ Rotor sets as per scope

Equipment Buy-Back / Trade-In Options

Upgrade Pathways for Existing Installations

MillNest evaluates eligible equipment and recommends retrofit, rebuild, or replacement routes based on condition, application needs, and logistics feasibility.

- ✓ Evaluation-led recommendation
- ✓ Trade-in or buy-back options (case dependent)
- ✓ End-to-end coordination support

Spare Parts & Maintenance

Spare Parts & Maintenance Lifecycle Support	Planned Maintenance Guidance
Recommended spares (rotor elements, screens, bearings, liners) aligned to your configuration	Preventive inspection checkpoints and replacement planning to help maintain cut quality and stable output

MillNest Academy

Process Intelligence That Strengthens Processing

Structured resources and application guidance to help teams run consistent multi-product grinding outcomes: rotor selection logic, parameter baselines, sampling checks, and changeover discipline.

- ✓ academy.millnest.com

Ready to Discuss Your Requirements?

Whether establishing a new facility, expanding capacity, or optimizing an existing line — MillNest supports equipment selection, system integration, and commissioning aligned to your product and plant reality.



Contact Us :

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Quick Decision Guide

- Need coarse to fine grinding with high throughput - **Hammer Mill (MHAM)**
- Need ultra-fine powder with tight cut control - **Air Classifying Mill (MACM)**
- Need one mill for multiple products - **Universal Mill (MUNI)**
- Need fibrous size reduction by cutting, not impact - **Cutter Mill (MCUT)**
- Need to break lumps and restore flow, not grind - **Delumper (MLUM)**
- Need uniform dry blending of free-flowing powders - **Ribbon Blender (MRBL)**
- Need fast-cycle mixing, trace ingredient distribution, or liquid addition - **Paddle Blender (MPBL)**

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