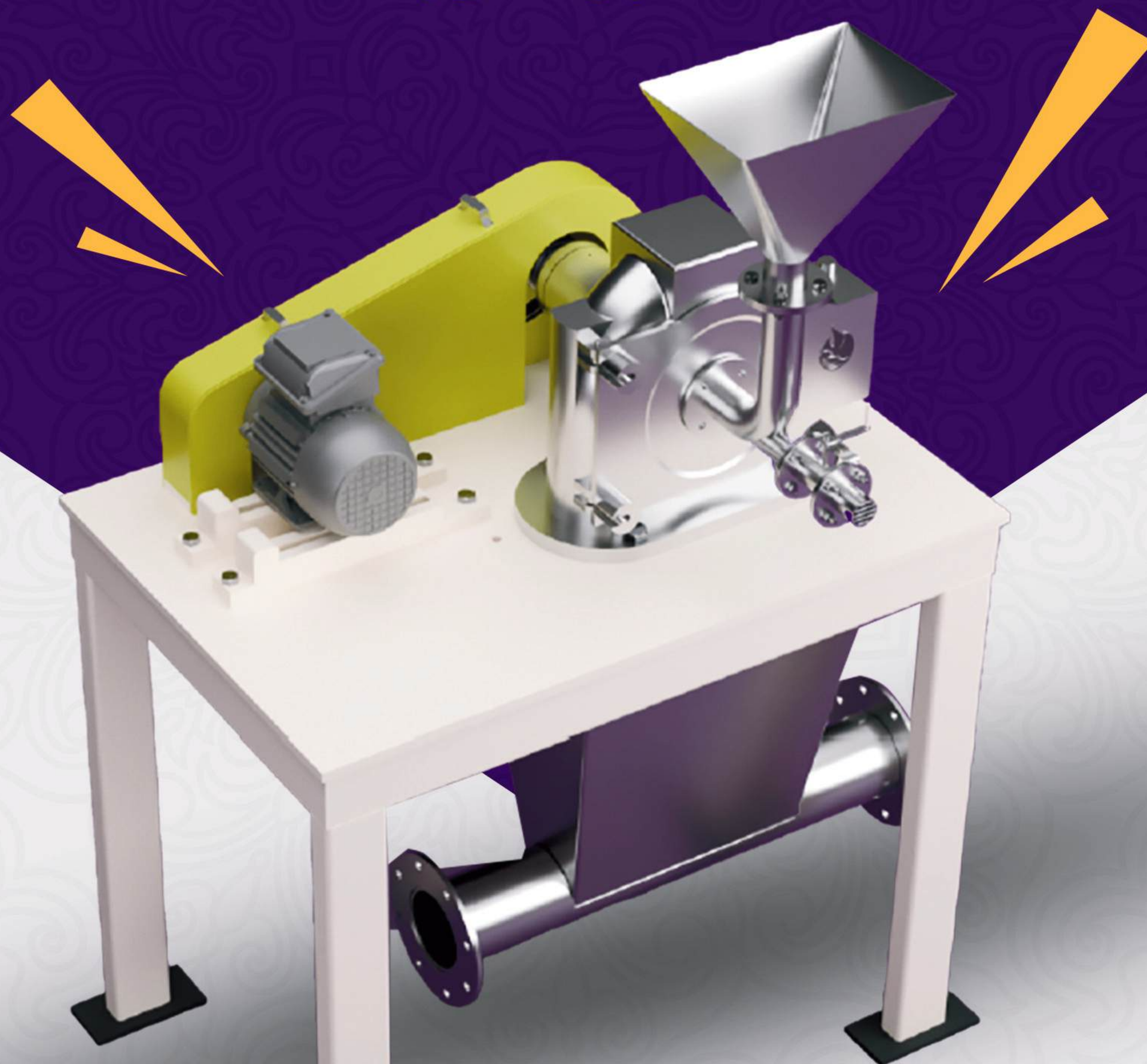




UNIVERSAL MILL

Multi-Product Fine Grinding with
Configurable Rotor Options



Universal Mill Manufacturer & Supplier | India

ENGINEERING THE FUTURE OF PROCESSING

www.millnest.com

PRODUCT OVERVIEW

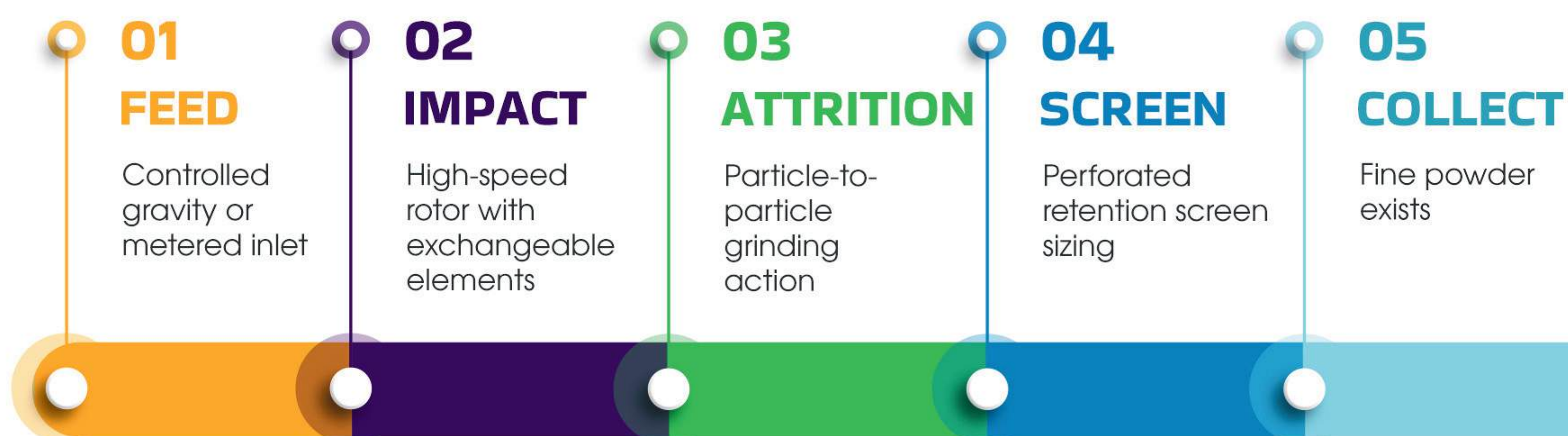


What is a Universal Mill?

A versatile high-speed impact mill designed for fine grinding of dry, crystalline, and moderately fibrous materials. Interchangeable rotor configurations (pin, beater, blade, turbo) allow the grinding mechanism to be matched to the material's behaviour, supporting multi-product plants that want flexibility without maintaining separate mills for each application. Output performance depends on rotor selection, screen aperture, speed setting, and feed stability.



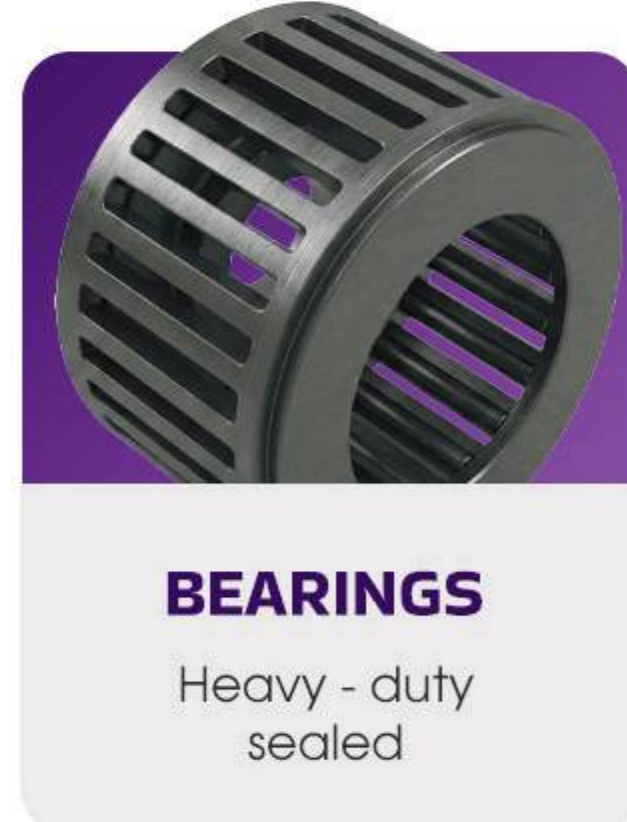
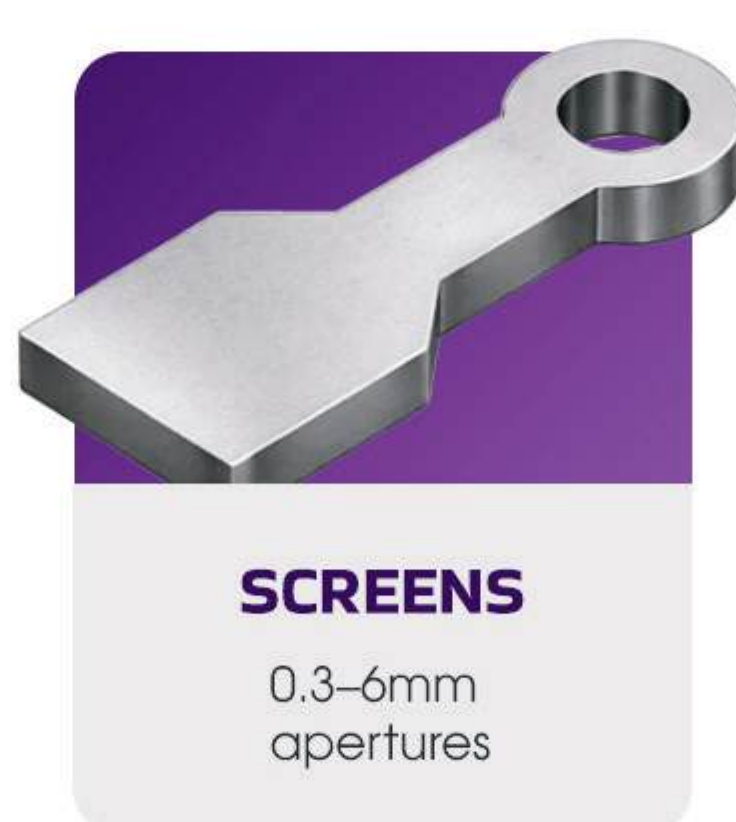
How It Works



Key Advantage: Interchangeable rotors adapt grinding action to material characteristics — one machine, multiple applications.

Original Line Components

Recommended wear & service components:



Fast-moving critical spares supported



Genuine parts help maintain mixing behaviour and reliability

Particle Size Capability

STANDARD

FINE



Screen-based control | Variable speed adjustment | Multiple rotor options



SPECIFICATIONS & APPLICATIONS



Technical Specifications — MUNI Series

Model	Capacity (kg/hr)	Motor (kW)	Speed Range (RPM)	Footprint L x W x H (m)
MUNI-150	20–80 kg/hr	2.2–3.7 kW	4000–10000 RPM	0.6 x 0.5 x 0.9 m
MHAM-200	50–150 kg/hr	3.7–7.5 kW	3000–8000 RPM	0.7 x 0.6 x 1.0 m
MHAM-300	150–350 kg/hr	11–18.5 kW	2500–6000 RPM	0.9 x 0.7 x 1.2 m
MHAM-400	350–700 kg/hr	22–37 kW	2000–5000 RPM	1.1 x 0.9 x 1.4 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.



Capacity varies with **material type, feed size, screen selection, and target fineness**



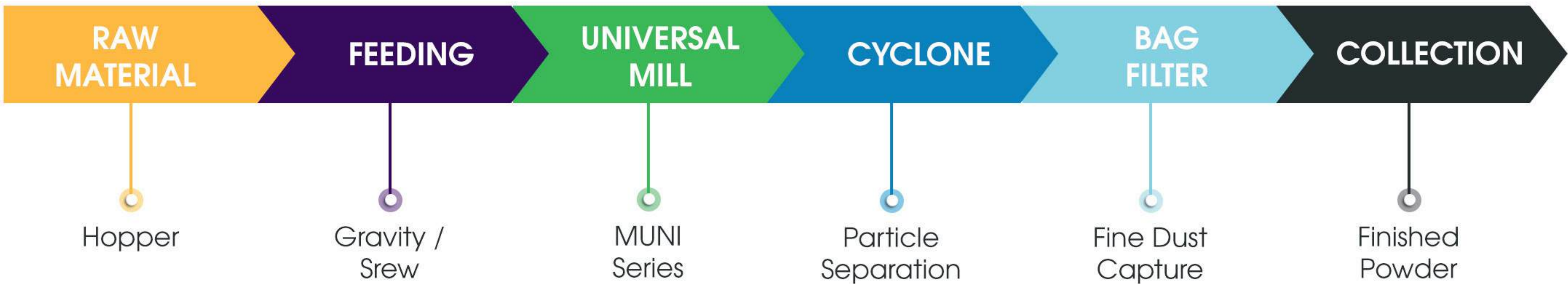
Rotor Options:
Pin / Beater / Blade / Turbo configurations



Construction:
SS 304 / SS 316 / cGMP-compliant designs



Integrated Grinding System



Turnkey Solutions Available — Process engineering to commissioning



Applications

 SPICES	 PHARMA / WELLNESS	 FOOD	 INDUSTRIAL
Pepper	Herbal powders	Sugar	Resins
Cinnamon	Excipients	Salt	Polymers
Cardamom	Ayurvedic ingredients	Starch	Pigments
Coriander	Nutraceutical powders	Dried fruits	Detergents
Dried herbs	Tablet-related powders	Food premixes	Soft minerals
Seasonings	Dry intermediates	Ingredient blends	Powder Processing



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 maintenance plans and inspection checkpoints to help maintain stable output

MillNest Academy

Process Intelligence That Strengthens Processing

Structured resources and application guidance to help teams run consistent cutting outcomes: blade selection logic, clearance 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.



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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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