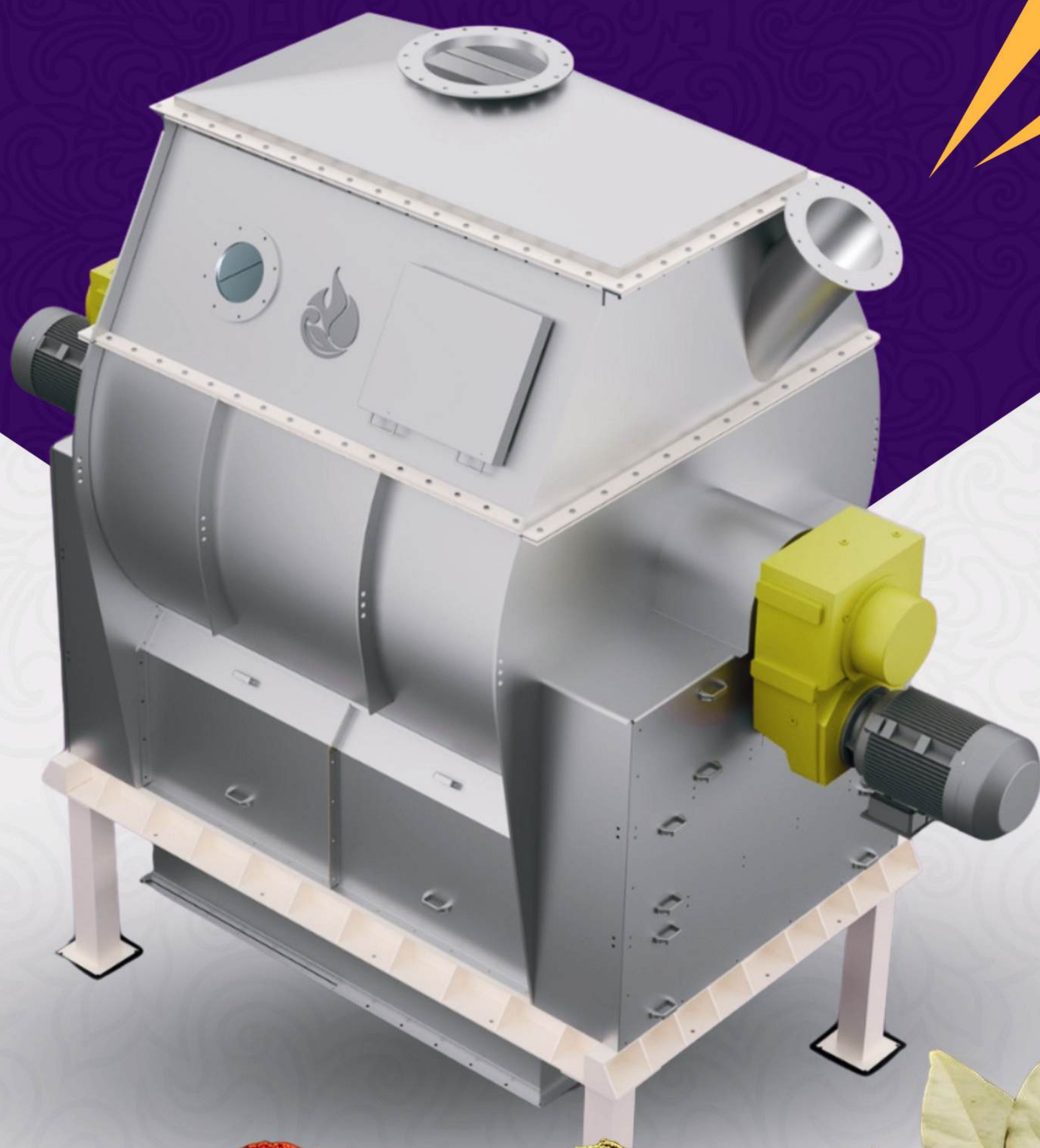




PADDLE MIXER

Uniform Blending for Powders, Granules &
Semi-Wet Mixes



Paddle Mixer Manufacturer & Supplier | India

ENGINEERING THE FUTURE OF PROCESSING

www.millnest.com

PRODUCT OVERVIEW



What is a Paddle Mixer?

A batch mixing system designed to achieve uniform blending through controlled paddle motion. Angled paddles generate radial and axial movement to distribute materials evenly while limiting unnecessary shear. It is typically selected for delicate powders, granules, and semi-wet mixes where consistent blending and predictable discharge matter. Mixing performance depends on material flow behaviour, fill level, paddle geometry, and mixing time.



How It Works



Original Line Components

Recommended wear & service components:



PADDLE ASSEMBLY

Angled blade configurations



DRIVE SHAFT

Heavy-duty construction



BEARINGS

Industrial grade sealed



Fast-moving critical spares supported



Genuine parts help maintain mixing behaviour and reliability

Material Capability

DRY POWDERS

SEMI-WET PASTES

Fine Powders

Granular Materials

Mixed Densities

Cohesive Powders

Semi-dry Pastes

Flour/ Chemicals

Feed/ Fertilizer

Multi-component

Spice blends

Dough/ Batters

Particle/Chunk Size (mm): **Application dependent** | Bulk Density (kg/L): **Application dependent**

Mixing Action: **Paddle-driven turnover with controlled shear**

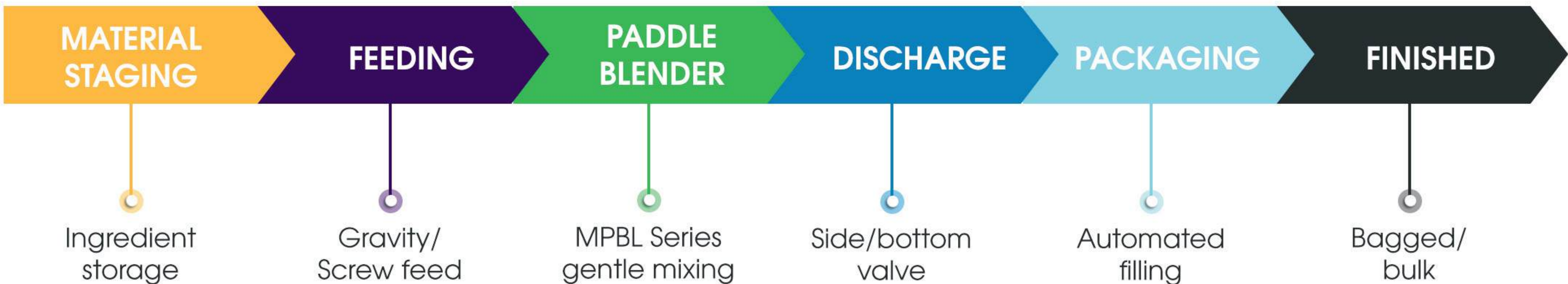
Technical Specifications — MPBL Series

Model	Working Volume (L)	Motor Power kW)	No. of Motors (No.)	Footprint L × W × H (m)
MPBL-1000	500–1000 L	11.5–18.5 kW	1	3.3 × 1.3 × 1.5 m
MPBL-2000	1000–2000 L	15–22 kW	1	3.6 × 1.6 × 1.85 m
MPBL-4000	2000–4000 L	22–37 kW	1	4.2 × 2.0 × 2.3 m
MPBL-6000	4000–6000 L	37–40 kW	2	5.5 × 2.2 × 2.7 m
MPBL-8000	6000–8000 L	90–115 kW	2	3.3 × 2.5 × 4.7 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: High-grade SS304/SS316L stainless steel
-  Speed Control: Adjustable VFD for different materials
-  Discharge: Bottom outlet or side valve for efficient flow
-  Feed Options: Gravity / Pneumatic / Screw conveyor

Integrated Blending System



Turnkey Solutions Available — Material handling to automated discharge systems

Applications

 FOOD PROCESSING	 PHARMA	 CHEMICALS	 AGRICULTURE
Flour blending	API granule mixing	Pigment mixing	Fertilizer blends
Spice mixes	Excipient blending	Polymer additives	Soil conditioners
Instant soups	Powdered drugs	Resin compounds	Animal feed
Drink powders	Tablet formulations	Fine chemicals	Nutritional supplements
Seasonings	Nutraceuticals	Powder coatings	Vitamin premixes
Dough/batters	Herbal formulations	Industrial adhesives	Grain blending

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