

Dry Powder Mixer Laboratory Mixing Equipment For Granules

Item Number: JL12



Introduction

High efficiency dry powder mixer and laboratory mixing equipment for uniform granule blending, stainless steel cleaning, flexible loading, and reliable processing across pharmaceutical, chemical, food, ceramic, metallurgical, and feed applications with practical operation and efficient material turnover

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Application	Description	Key Benefit
Pharmaceutical Powder Blending	Mix dry pharmaceutical powders or granular ingredients before downstream processing, filling, or formulation evaluation.	Promotes uniform material distribution and supports repeatable laboratory batches.
Chemical Material Processing	Blend dry chemical powders and granular raw materials during research, development, or small-scale production.	Provides controlled mechanical turnover with flexible manual or vacuum feeding.
Food Ingredient Mixing	Combine dry food powders or granular ingredients where hygienic handling and efficient cleaning are important.	Stainless steel construction and a smooth internal wall simplify cleaning between batches.
Feed Premix Preparation	Mix dry feed materials and granular components for laboratory evaluation or controlled premix preparation.	Supports consistent blending across small working volumes.
Ceramic Powder Preparation	Homogenize ceramic powders and granular material before forming, pressing, or other shaping processes.	Helps reduce concentration differences and improves feedstock uniformity.
Metallurgical Powder Processing	Blend metallic powders or granular materials during materials research and process development.	Delivers effective material movement in a compact laboratory-scale mixer.
Research and Quality Control	Prepare representative dry material blends for laboratory testing, formulation comparison, and quality checks.	Offers practical capacity choices and straightforward operation for repeated testing.

Parameter	JL12 20 Litre Variant	JL12 30 Litre Variant
Vessel capacity	20 L	30 L
Working volume	8 L	12 L
Motor power	0.55 kW	0.75 kW
Mixing speed	20 r/min	20 r/min
Overall dimensions length width height	1195 × 350 × 885 mm	1170 × 370 × 1045 mm
Recommended load	10 kg	10 kg
Equipment weight	120 kg	125 kg
Material type	Dry powders and granular materials	Dry powders and granular materials
Vessel configuration	V type asymmetric cylindrical vessel	V type asymmetric cylindrical vessel
Feeding method	Manual feeding or vacuum suction	Manual feeding or vacuum suction
Vessel material	Stainless steel	Stainless steel
Internal wall finish	Smooth interior for convenient cleaning	Smooth interior for convenient cleaning

Parameter	JL12 20 Litre Variant	JL12 30 Litre Variant
Mixing principle	Mechanical transmission drives reciprocating movement between two cylindrical chambers at different heights	Mechanical transmission drives reciprocating movement between two cylindrical chambers at different heights
Intended industries	Pharmaceutical, chemical, food, feed, ceramic, and metallurgical industries	Pharmaceutical, chemical, food, feed, ceramic, and metallurgical industries