

Conical Barrel Mixer For Dry Powder And Granule Blending

Item Number: JL14



Introduction

Conical barrel mixer for pharmaceutical chemical food feed ceramic and metallurgical dry powders and granules with enclosed stainless steel mixing reliable uniform results adjustable speed timed operation easy cleaning and efficient dead zone free blending for laboratory and production workflows

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Application	Description	Key Benefit
Pharmaceutical powder blending	Mixes dry pharmaceutical powders during formulation development, small-batch preparation, and process evaluation.	Enclosed stainless steel construction and smooth internal surfaces support controlled handling and easier cleaning between batches.
Chemical material preparation	Blends dry chemical powders or granular feedstocks before downstream processing, testing, or formulation work.	Adjustable speed helps operators establish a repeatable mixing condition for different material combinations.
Food ingredient mixing	Combines dry food ingredients in laboratory, development, or small-batch processing workflows.	The stainless steel material-contact barrel provides a smooth, cleanable surface for routine use.
Feed formulation	Mixes dry feed components and granular materials to support formulation trials and batch preparation.	The 7.5 L working volume and 5 kg loading capacity are practical for controlled small-batch work.
Ceramic powder preparation	Blends ceramic powders or granules before pressing, shaping, firing, or material evaluation.	Conical mixing action supports uniform distribution of dry constituents across the batch.
Metallurgical material processing	Mixes dry metallurgical powders and granular materials for laboratory research and process preparation.	The enclosed configuration helps contain materials while the adjustable speed supports process control.
Academic and advanced materials research	Supports repeatable dry-material blending for research projects involving powder and granular material systems.	Compact dimensions, timed operation, and straightforward adjustment make the unit practical for shared laboratory environments.

Parameter	Specification
Product Item Number	JL14
Barrel volume	15 L
Working volume	7.5 L
Loading capacity	5 kg
Mixing time	6-8 min
Motor power	0.06 kW
Mixing speed	0-34 r/min
Overall dimensions	480 × 380 × 680 mm
Complete machine weight	19 kg
Suitable materials	Dry powders and granular materials
Suitable industries	Pharmaceutical, chemical, food, feed, ceramic, and metallurgical industries
Barrel material	Stainless steel
Barrel characteristics	Good sealing performance; smooth internal wall; easy to clean

Parameter	Specification
Mixing configuration	Conical barrel mixing with no dead zones and high mixing uniformity