

Laboratory Micro Pulverizer High Speed Dry Sample Grinding Machine Benchtop Lab Pulverizer Mill

Item Number: KT-WXA



Introduction

This high speed laboratory micro pulverizer enables rapid dry sample grinding from 40 to 200 mesh in under five minutes. Featuring a compact benchtop footprint, powerful motor performance, and a sealed chamber, it optimizes daily sample preparation across analytical laboratories.

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Application	Description	Key Benefit
Pharmaceutical Formulations	Rapid milling of active pharmaceutical ingredients (APIs), excipients, and compressed tablets into micro-fine powders for assay testing and dissolution studies.	Ensures homogeneous sample mixing with zero cross-contamination risks and minimal material loss.
Chemical Sample Preparation	Pulverizing raw chemical crystalline compounds, synthetic resins, and dry catalysts prior to XRF, FTIR, or mass spectrometry analysis.	Reduces particle size to under 200 mesh rapidly, accelerating chemical digestion and analytical response times.
Agricultural & Botanical Research	Processing dried plant tissue, grain kernels, seeds, and soil samples for nutrient analysis, moisture content evaluation, and pesticide residue testing.	Fast 0.5 to 5-minute cycle time prevents thermal degradation of heat-sensitive organic target compounds.
Food Quality Control	Grinding dehydrated food products, spices, freeze-dried extracts, and agricultural produce into consistent powders for nutritional labeling and quality control.	Maintains strict sample cleanliness while delivering predictable particle size distributions.
Geological & Mining Assays	Crushing small mineral rock chips, dried clay, and non-metallic ore samples into fine powders suitable for elemental assaying and spectrographic analysis.	High-speed rotation easily handles tough, brittle mineral aggregates without motor stall.
Polymer & Advanced Materials	Pulverizing dry polymer pellets, composite powders, and ceramic precursors for laboratory-scale compounding trials and material testing.	Avoids outsourcing sample prep, enabling rapid iterative testing and reduced development costs.

Model Identifier	Power (W)	Speed (RPM)	Max Batch Capacity (g)	Chamber Dimensions (Dia x H mm)	Overall Dimensions (Dia x H mm)	Voltage	Output Fineness (Mesh)
KT-WXA-80	200 W	10,000 RPM	≤ 80 g	Φ 80 x 40 mm	Φ 110 x 210 mm	AC 220V 50Hz	40-200 Mesh
KT-WXA-100	650 W	25,000 RPM	≤ 100 g	Φ 100 x 40 mm	Φ 160 x 320 mm	AC 220V 50Hz	40-200 Mesh
KT-WXA-200	1200 W	28,000 RPM	≤ 200 g	Φ 125 x 56 mm	Φ 170 x 300 mm	AC 220V 50Hz	40-200 Mesh
KT-WXA-300	1500 W	28,000 RPM	≤ 300 g	Φ 140 x 57 mm	Φ 170 x 300 mm	AC 220V 50Hz	40-200 Mesh
KT-WXA-400	1650 W	28,000 RPM	≤ 400 g	Φ 160 x 60 mm	Φ 160 x 800 mm	AC 220V 50Hz	40-200 Mesh
KT-WXA-500	1800 W	28,000 RPM	≤ 500 g	Φ 175 x 90 mm	Φ 175 x 1200 mm	AC 220V 50Hz	40-200 Mesh
KT-WXA-800	1900 W	28,000 RPM	≤ 800 g	Φ 190 x 90 mm	Φ 175 x 1200 mm	AC 220V 50Hz	40-200 Mesh
KT-WXA-1000	2000 W	25,000 RPM	≤ 1000 g	Φ 210 x 90 mm	Φ 210 x 1100 mm	AC 220V 50Hz	40-200 Mesh

Model Identifier	Power (W)	Speed (RPM)	Max BatchCapacity (g)	Chamber Dimensions (Dia x H mm)	Overall Dimensions (Dia xH mm)	Voltage	Output Fineness (Mesh)
KT-WXA-1500	2100 W	25,000 RPM	≤ 1500 g	Φ 240 x 100 mm	Φ 240 x 1300 mm	AC 220V 50Hz	40-200 Mesh
KT-WXA-2000	2200 W	25,000 RPM	≤ 2000 g	Φ 240 x 100 mm	Φ 240 x 1300 mm	AC 220V 50Hz	40-200 Mesh