

High Speed Laboratory Pulverizer Stainless Steel Sample Grinding Mill For Pharmaceutical Agricultural And Mining Testing

Item Number: KT-WXB



Introduction

This high-speed laboratory pulverizer features premium stainless steel blades and a specialized crushing chamber, delivering rapid, contamination-free sample preparation down to 200 mesh fineness. Ideal for agricultural, pharmaceutical, geological, coal, and industrial research applications demanding maximum analytical sample accuracy.

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Application	Description	Key Benefit
Agricultural & Soil Science	Grinding dry grains, crops, seeds, plant leaves, and dried soil specimens for nutrient and residue analysis.	Produces consistent sub-millimeter powders essential for uniform digestion and spectrographic measurement.
Pharmaceuticals & Traditional Medicine	Pulverizing bulk herbs, active pharmaceutical ingredients (APIs), excipients, and tablet formulations.	Stainless steel contact surfaces eliminate batch-to-batch cross-contamination and preserve sample purity.
Geological & Mining Exploration	Crushing rock chips, minerals, ores, quartz, and geological core samples prior to XRF or ICP analysis.	Heavy-duty steel blades handle high-hardness mineral matrices with minimal mechanical wear.
Coal & Energy Research	Homogenizing coal samples, coke, and carbonaceous materials for proximate analysis and calorific value determination.	Rapid processing prevents moisture loss and ensures representative sample splitting for combustion testing.
Food Science & Quality Control	Milling dehydrated foodstuffs, animal feed pellets, spices, and dietary supplements.	Achieves fine 40-200 mesh uniformity for accurate NIR spectroscopy and chemical composition testing.
Academic & Materials Testing	General sample preparation in university research laboratories and industrial analytical facilities.	Flexible batch sizing enables seamless scaling from quick preliminary tests to large sample runs.

Parameter	Specification
Product Line Series	KT-WXB High-Speed Pulverizer Series
Operating Voltage	AC 220V, 50Hz
Pulverizing Fineness	40 - 200 Mesh
Chamber & Blade Material	High-Grade Stainless Steel
Operation Type	High-Speed Impact & Shear Milling

Item Number	Motor Power (W)	Rotational Speed (RPM)	Crushing Chamber Dimensions (Dia. x Height, mm)	Max Batch Capacity (≤ g)	Overall Dimensions (Dia. x Height, mm)
KT-WXB-80	200 W	10,000 RPM	Φ80 × 40 mm	80 g	Φ110 × 210 mm
KT-WXB-100	650 W	25,000 RPM	Φ100 × 40 mm	100 g	Φ160 × 320 mm
KT-WXB-200	1,200 W	28,000 RPM	Φ125 × 56 mm	200 g	Φ170 × 300 mm

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KT-WXB-300	1,500 W	28,000 RPM	Φ140 × 57 mm	300 g	Φ170 × 300 mm
KT-WXB-400	1,650 W	28,000 RPM	Φ160 × 60 mm	400 g	Φ160 × 800 mm
KT-WXB-500	1,800 W	28,000 RPM	Φ175 × 90 mm	500 g	Φ175 × 420 mm
KT-WXB-800	1,900 W	28,000 RPM	Φ190 × 90 mm	800 g	Φ175 × 420 mm
KT-WXB-1000	2,000 W	25,000 RPM	Φ210 × 90 mm	1,000 g	Φ210 × 410 mm
KT-WXB-1500	2,100 W	25,000 RPM	Φ240 × 100 mm	1,500 g	Φ240 × 430 mm
KT-WXB-2000	2,200 W	25,000 RPM	Φ240 × 100 mm	2,000 g	Φ240 × 430 mm