

Sealed Continuous Sample Preparation Pulverizer With Continuous Feeding And Discharging System

Item Number: KT-LX



Introduction

Engineered for demanding mineral laboratories, this sealed continuous sample preparation pulverizer features automated feeding, inline sample division, and direct discharging. Achieve fine grinding under 0.2 mm with 99.98% sieve compliance, complete dust containment, zero cross-contamination, and unmatched operational efficiency.

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Application	Description	Key Benefit
Coal Mining & Washery Quality Control	Continuous milling of raw coal, washed coal, and middlings for proximate, ash, and calorific value testing.	High throughput handles large sample batches rapidly without moisture loss or coal dust release.
Thermal Power Generation Fuel Testing	Rapid sample pulverizing of pulverized fuel feeds and boiler slag to assess combustion efficiency and sulfur content.	Automated dividing delivers ready-to-analyze sample splits directly into sealed containers for instant testing.
Metallurgical Smelting & Blast Furnace Operations	Pulverizing iron ores, sinter, coke, limestone, and alloy precursors to analytical fineness for spectroscopic monitoring.	Heavy-duty construction handles abrasive minerals while 304 stainless surfaces eliminate iron contamination.
Commercial Inspection & Third-Party Assaying	Multi-client commodity inspection of bulk imported/exported mineral cargoes under strict turnaround deadlines.	Continuous flow speeds up sample processing while automated air purging prevents inter-sample cross-contamination.
Geological Exploration & Ore Extraction	Grinding core samples, geological rock chips, and survey trench materials for precious and base metal assaying.	Achieves <0.2 mm particle sizing with 99.98% sieving consistency for highly reproducible chemical digestion.
Solid Waste & Environmental Ash Characterization	Preparation of industrial fly ash, slag by-products, and incinerator residues for leaching and heavy-metal screening.	Hermetically sealed negative-pressure grinding protects testing operators from hazardous fine dust inhalation.
New Energy & Battery Mineral Processing	Grinding graphite ores, synthetic carbon, and lithium ore concentrates into uniform micro-particulate powders.	Consistent particle distribution and contamination-free stainless pathways maintain chemical precursor purity.

Parameter	KT-LX-100A	KT-LX-2X100A
Equipment Architecture	Single-Bowl Continuous Pulverizer	Dual-Bowl High-Capacity Continuous Pulverizer
Number of Grinding Bowls	1	2
Feeding Method	Automated Continuous In-Line Feeding	Automated Continuous In-Line Feeding
Maximum Feed Particle Size	≤15 mm	≤15 mm
Final Discharge Particle Size	≤80–200 mesh (<0.2 mm)	≤80–200 mesh (<0.2 mm)
Sieving Pass Rate	≥99.98%	≥99.98%
Grinding Capacity	150 g/min	300 g/min (150 g/min × 2)
Receiver Container Volume	5 kg	10 kg (5 kg × 2 containers)
Main Drive & Sub-Motor Power	1.5 kW + 0.75 kW	1.5 kW + 0.55 kW
Material Contact Metallurgy	Certified AISI 304 Stainless Steel	Certified AISI 304 Stainless Steel

Parameter	KT-LX-100A	KT-LX-2X100A
Pneumatic / Draft Evacuation System	Variable Frequency Drive (VFD) Controlled	Variable Frequency Drive (VFD) Controlled
Operating Power Supply	380 V AC, 3-Phase, 5-Wire, 50/60 Hz	380 V AC, 3-Phase, 5-Wire, 50/60 Hz
Equipment Weight	280 kg	390 kg
Overall External Dimensions (W × D × H)	860 mm × 820 mm × 900 mm	1080 mm × 900 mm × 950 mm