

Laboratory Micro Pulverizer High Speed Mini Mill Grinder For Fine Dry Material Grinding

Item Number: PSFS



Introduction

High-performance laboratory micro pulverizer designed for rapid dry material grinding. Achieves 40-200 mesh fineness in just 0.5 to 5 minutes with ultra-high motor speeds up to 28,000 RPM. Ideal for analytical labs, quality control, and R&D testing applications.

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Application	Description	Key Benefit
Chemical Quality Assurance	Rapid pulverization of dry chemical compounds, crystalline solids, and synthetic salts prior to spectroscopic analysis.	Assures homogeneous sample blending and prevents particle segregation during chemical assay testing.
Pharmaceutical & Botanicals	Grinding dried botanical specimens, herbs, active ingredients, and tablet formulations into uniform powders.	Preserves active ingredient consistency with rapid processing times that limit thermal exposure.
Food Quality & Agricultural Testing	Pulverizing dried grains, seeds, agricultural products, and animal feed for moisture, protein, and fat analysis.	Delivers rapid 40-200 mesh consistency for accurate, reproducible composition extraction.
Geological & Mineral Analysis	Crushing and fine-milling dried soil samples, minerals, rock specimens, and ceramic precursors.	High-speed impact energy breaks down hard dry minerals quickly with minimal tool wear.
Environmental Sample Prep	Processing dried sludge, solid wastes, and environmental filter residues for heavy metal and trace contaminant testing.	Enables precise sample homogenization required for compliance with strict environmental standards.
Polymer & Advanced Materials	Reducing dry polymer pellets, resins, and advanced composite precursors for thermal and physical property evaluations.	Provides high-speed impact pulverization, producing uniform micro-particles for material R&D.

Model Identifier	Processing Batch Capacity (g)	Input Voltage (V)	Motor Power Rating (W)	Motor Speed (r/min)	Pulverizing Fineness (Mesh)	Standard Processing Time
PSYF-50	50	220	300	25,000	40 - 200	0.5 - 5 min
PSYF-100	100	220	650	28,000	40 - 200	0.5 - 5 min
PSYF-200	200	220	1200	28,000	40 - 200	0.5 - 5 min
PSYF-400	400	220	1800	28,000	40 - 200	0.5 - 5 min
PSYF-500	500	220	1800	28,000	40 - 200	0.5 - 5 min
PSYF-1000	1000	220	2000	28,000	40 - 200	0.5 - 5 min