

KWCF-20T Parchment Coffee Testing Dehuller

Precise & Damage-Free Dehulling | All-in-One Lab Testing Machine

KWCF-20T Parchment Coffee Testing Dehuller is an automated processing device built on the principle of differential-speed counter-rotating roller milling. It features a pair of rubber rollers rotating toward each other at different linear speeds, which dehull parchment coffee beans through compression and gentle friction tearing. Roller pressure is adjusted via springs, while roller clearance is controlled by push rods. Equipped with a feed hopper and blanking slide plate, it ensures even material feeding. The motor drives the dust removal fan directly via a hexagonal belt for eco-friendly operation.

Leveraging the difference in suspension velocity between hulled coffee beans and parchment husks, built-in air suction separates clean green beans from husks post-dehulling.



Seven Core Product Advantages

Advantage 1: Zero Breakage Precision Dehulling, Compatible with All Coffee Processing Methods

Soft dehulling via differential-speed rubber rollers eliminates harsh grinding with iron rollers.

- Single-pass dehulling rate: 70%–80%
- Repeated processing (2–3 passes): dehulling rate $\geq 99\%$

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- Bean breakage increase rate: $\leq 1\%$

Suitable for washed, natural/dry-process, and honey-process parchment coffee. Integrated air winnowing delivers pure, impurity-free green coffee samples.

Advantage 2: Dual Adjustable Infinite Pressure, No Parts Replacement for Raw Material Switching

Dual regulation system: spring compression force + push rod roller gap adjustment. Adapts to coffee beans of varying sizes, moisture contents and varieties. Transparent observation window enables intuitive operation for novice users; no consumable replacement required when switching raw materials.

Advantage 3: Integrated Built-In Dust Extraction, Dust-Free Eco-Friendly Operation

All-in-one dust removal ductwork confines dust at the source, complying with environmental protection standards. Supports connection to centralized external dust collection, reducing abrasive dust wear on rubber rollers and transmission components to cut maintenance frequency.

Advantage 4: Lightweight Compact Frame, Portable for On-Site Sampling

Net weight only 50 kg, overall dimensions 710×360×690 mm — fits easily in car trunks. Minimal floor footprint; single-person quick assembly and commissioning, ideal for Coffee Plantation and laboratory settings.

Advantage 5: Modular Open Structure for Easy Maintenance & Cleaning

Four independent detachable modules: feeding unit, dehulling roller assembly, fan unit and discharge unit. Quick disassembly of wear parts (rubber rollers, fans); simplified daily cleaning and troubleshooting to lower long-term operation & maintenance costs.

Advantage 6: Fully Automatic Closed-Loop Processing, Energy-Saving & Labor-Free

Fully automated continuous workflow: feeding → dehulling → air separation → split discharge. Hourly capacity of 20 kg; single batch capacity 50–500 g, optimized for high-frequency laboratory testing. Low-consumption 0.37 kW single-phase 220V motor minimizes long-term electricity expenditure.

Advantage 7: Dual-Purpose Design, Universal for Full-Sector Coffee Testing

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Dual functionality for green coffee yield testing and small-batch laboratory processing. Widely adopted by coffee inspection institutions, processing plant labs, agricultural & forestry universities, and raw coffee procurement quality inspection stations.

Supplementary Section 1: Streamlined Working Flow

1. Even Feeding: Load 50–500 g parchment coffee beans; consistent feeding without blockages
2. Roller Dehulling: Differential-speed rubber rollers gently compress and tear to fully strip parchment husks
3. Air Winnowing: Light husks and defective shriveled beans are extracted by airflow; intact dense green beans fall by gravity
4. Classified Collection: Separate discharge channels for clean green beans, husks and foreign impurities

Supplementary Section 2: Core Technical Specifications

Item	Specification
Model	KWCF-20T
Overall Dimension (mm)	710×360×690
Net Weight (Kg)	50kg
Power Supply(AC V) & Motor Rating (Kw)	Single-phase 220V / 0.37 kW
Processing Capacity	20 KG/H; single batch: 50 - 500 g
Dehulling Performance	Single pass: 70% - 80%; 2 - 3 passes: ≥99%
Adding Broken Rate	≤1%