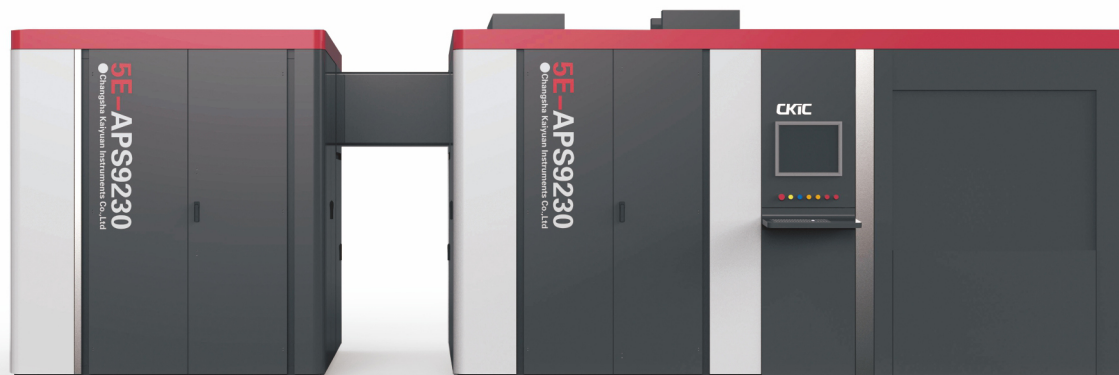


5E-APS9230 Pre-sale

Automatic Sample Preparation System



Application

5E-APS9230 Automatic Sample Preparation System is designed to produce specified coal samples automatically with unattended operation. Equipped with functions including automatic sample feeding, weighing, conveying, iron removal, crushing, division, drying, pulverizing, temporary storage of rejects, recycle, stored sample transportation, packing, and automatic cleaning, 5E-APS9230 will finally prepared 6mm total moisture sample, 3mm reserved sample, 0.2mm coal sample, and 0.2mm reserved sample, 1 portion for each sample. User may also customize as needed.

Features

Splendid Representativeness

1. 6mm Crushing Unit: Vibrating sieve plate structure leads to high moisture adaptability.
2. 3mm Crushing Unit: Double roller crusher for primary crushing; Hammer crusher with sieve for secondary crushing, unique structure ensures 100% sieving rate without overcrushing.
3. 0.2mm Milling Unit: Adopt cutting mill with sieving plate for 0.2mm milling unit to ensure 100% sieving rate without overcrushing.
4. Multistage division design. The division ratio at each stage is allocated reasonably and no more than 1/15, ensuring optimal division parameters.
5. Adopt low temperature rapid drying. Distributes coal samples in several layer, and dry them quickly without influence on coal quality.

High Stability

1. Use 4-axis robotic packing machine to complete bottle filling and sealing, which reliably achieves precise positioning.
2. Equipped with iron removal device before crushing to preventing damage to crusher.
3. Adopt independent frame for crusher with vibration and noise reduction design, keeping steady operation.
4. Able to monitor the operation parameters of key parts in real time, record sample loss automatically, and conduct fault diagnose to help user.

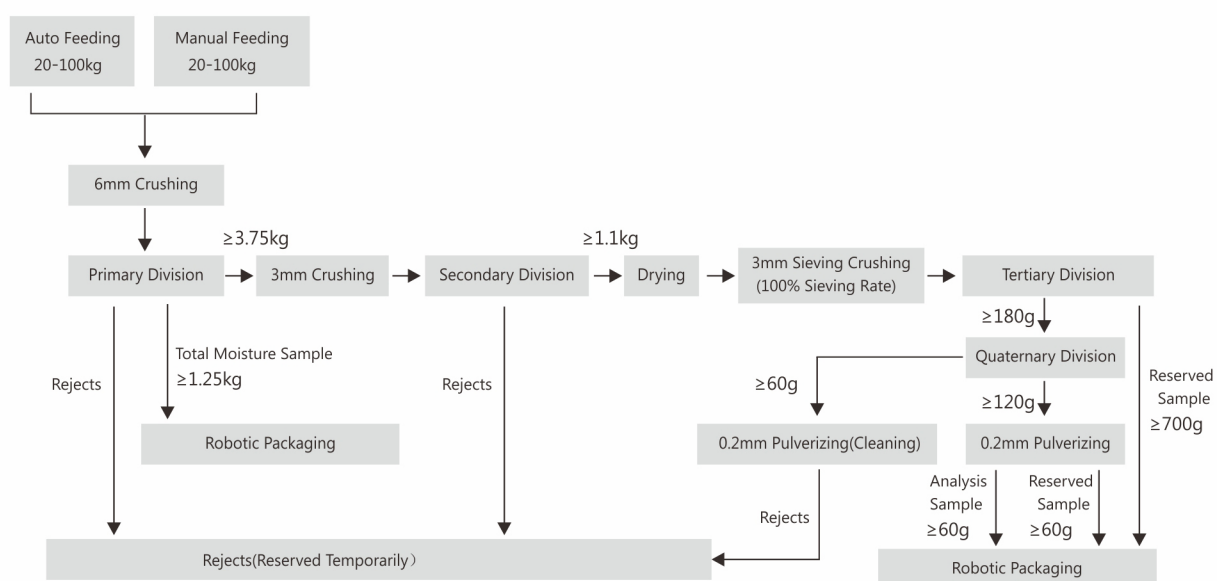
High Efficiency

1. Feeding interval of continuous sample preparation is less than 15min, and discharging interval is less than 15min.
2. Drying time of single coal sample is less than 30min. Allocate samples in multiple layers, enriching the contact area between hot air and samples to achieve rapid drying.
3. Equipped with efficient cutting type pulverizer. Pulverizing time of single coal sample is less than 10min.

Convenient Maintenance

1. Modular design, whose dimension is relatively small. It is of high adaptability on site, and can be installed rapidly.
2. Easy accessible maintenance doors are set around the module

Working Process



Specification

Model	Parameters	Remarks
Automatic Feeding	20kg-100kg Particle Size≤13mm	
Manual Feeding	20kg-100kg Particle Size≤50mm	
Primary Crushing Particle Size	≤6mm	Sieving Rate≥95%
Secondary Crushing Particle Size	≤3mm	Sieving Rate≥95%
Tertiary Crushing Particle Size	≤3mm	Sieving Rate 100%
Quaternary Crushing Particle Size	≤0.2mm	Sieving Rate 100%
Division Ratio	Five Levels, Each Level≤1/15	Automatic Regulation
Drying Temp.	< 50°C	Adjustable
Sample Weight and Particle Size	6 mm Total Moisture Sample: ≥1.25kg	One Portion
	3 mm Reserved Sample: ≥700g	One Portion
	0.2 mm Coal Sample: ≥100g	Two Portion
Discharging Interval	≤ 15min	
Power Supply	AC380V 50Hz 45kW	
Dimension(m)	7m×2.2m×2.2m	