

5E-PL300B

Automatic Plastometric Indices Determinator

Standard Configuration

Computer	Cushions for coal cup
Printer	Filter paper for coal cup
Coal cup	Paper for steel needle
Pressure set	Displacement sensor
Thermocouple tube	Pressure sensor
Heating element set	Steel needle
Probe set	Thermocouple



Application

5E-PL300B Automatic Plastometric Indices Tester Determinator (also called Sapozhnikov Plastometer) is used to determine the plastometric indices of bituminous coal (maximum thickness of plastic layer Y, final contraction value of plastic layer X) and describe technical characteristics of coke, which helps to guide coking and coal blending. It is widely applied in coal mining, metallurgy, chemical industry and verification institution of coal quality.

Features

Full-automatic Test Process

1. Temperature controller provides temperature rise curve based on GB standard.
2. The rolling paper is automatically aligned with probe, which improves the stability and accuracy of measurement as well as ease-of-use.
3. All loading and removing of weights are controlled by the intelligent system, greatly reducing labor intensity and simplifying operation.
4. Volume sensor is automatically loaded and removed to enhance stability of a measurement.
5. The change of sample volume and plastic layer will be automatically recorded to form curve.
6. The intelligent manipulator measures the curve of upper and layer to get the maximum thickness.

Cost Saving

Integrated smoke exhaust system ensures the test is performed without external fume cupboard.

Improved Safety

1. Interlock Features. High-voltage parts are designed with isolated protection.
2. Equipped with the functions of power-off protection and monitoring.

Specification

Model	5E-PL300B
Conforms to Method	GB/T 479
Temperature Control Range	Ambient Temp. - 800°C
Temperature Control Precision	≤250°C(±5°C), 250°C-730°C(±3°C)
Heating Rate	≤250°C 8°C/min, >250°C 3°C/min
Volume Sensor Precision	0.05%
Pressure Sensor Precision	0.02%FS (full scale)
Accuracy of Displacement Sensor	0.02%
Repeatability	≤1mm if Y ≤20mm, ≤2mm if Y >20mm; X≤3mm
Working Conditions	Ambient temperature: (5-40)°C
	Relative humidity(RH):(20-85)% No strong vibration, air flow, erosive gas and EMI
Power Supply	Single phase, AC220V±10%, 50/60Hz, >5kW
Net Weight	172kg
Dimensions(LxWxH)	860mm×640mm×950mm

5E-PL360 Automatic Coal Cup Cleaner

Application

5E-PL360 Automatic Coal Cup Cleaner is specially used to clean the coke breeze inside of coal cup after the plastometric indices testing.

Specification

Model	5E-PL360
Cleaning Times	1-9 settable
Main Power Motor	120W
Max. Rev	1400/min, 220V/50Hz
Speed-down Motor Power	25W
Reduction ratio	30 Rev. 50/min 220V/50Hz
Gross Weight	100kg
Dimensions(L×W×H)	614mm×370mm×280mm

