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Product Guide

for
- Mechnical Sampler
- Sample Preparation Equipments
- Analytical Instruments









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Crucibles
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Benzoic Acid
O-ring kit
Tool kit

Optional Configuration
Lens paper
Pellet press
Halogen Resistant Oxygen Vessel
Computer

5E-C5808
Automatic Calorimeter

Standard Configuration
Main analyzer
Standard CV bomb -1 Unit
Crucibles
Ignition Wire
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Tool kit

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Computer

Pioneering Laser Ignition Design
Define the New Generation of Calorimeter

* Available in C5808J

Application

5E-C5808/5E-C5808J is new generation calorimeter which is used to determine the calorific value of solid and liquid combustibles including oil, coal, coke, foodstuffs and biomass products. The calorific value is a crucial characteristic for each substance, also the key point to calculate the price of coal, so it will directly affect the economic benefits of the customers. This technique is widely applied in power plants, coal mines, metallurgy, chemical industry, commercial inspection, scientific research, etc.

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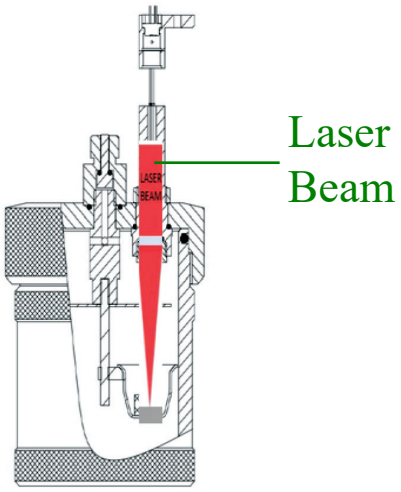
Features

1. Patented laser ignition technology (available in C5808J model) allowing easier and faster sample preparation, no ignition wire or cotton thread is needed
2. 8min fast analysis for one sample
3. Automatic oxygen vessel lifting
4. Automatic oxygen charging and venting
5. Intelligent temperature control of the jacket and the water tank, the water constant temperature stability of the jacket reaches to 0.02℃
6. Available in PC or easy and convenient touch screen operation
7. Small space occupied with compact design
8. Intelligent diagnosis and safety protection function



Specification*

Model	5E-C5808J	5E-C5808
Conforms to Method	AS 1038.5, ASTM D5865, ASTM D4809, ASTM E711, BIS 1350, BS EN 15400, GB/T 213, GB/T 30727, ISO 1928, ISO 9831,ISO 18125, ASTM D240	
Precision (1g Benzoic Acid)	≤0.10% RSD	
Measuring Range	Up to 50000J	
Temp. Resolution	0.0001°C	
Control Ability	2 Units / 1 PC available	
Analysis Time per Sample	8mins	
Jacket Type	Isoperibol	
Ignition Method	Laser Ignition	Ignition Wire
Vessel Identification	Yes	
Heat Capacity Stability	≤0.2% within one year	
Balance Connection	Available	
Network Connection	Available	
Bucket Filling	Automatic	
Oxygen Filling	Automatic	
Structure	Benchtop	
Bomb Vessel Lifting	Automatic	
Power Supply	Single phase, AC220±10%, 50/60Hz, ≤500W	
Net Weight	75kg	
Dimensions (L×W×H)	705×520×595mm	

*continous product improvement may necessitate changes in specifications

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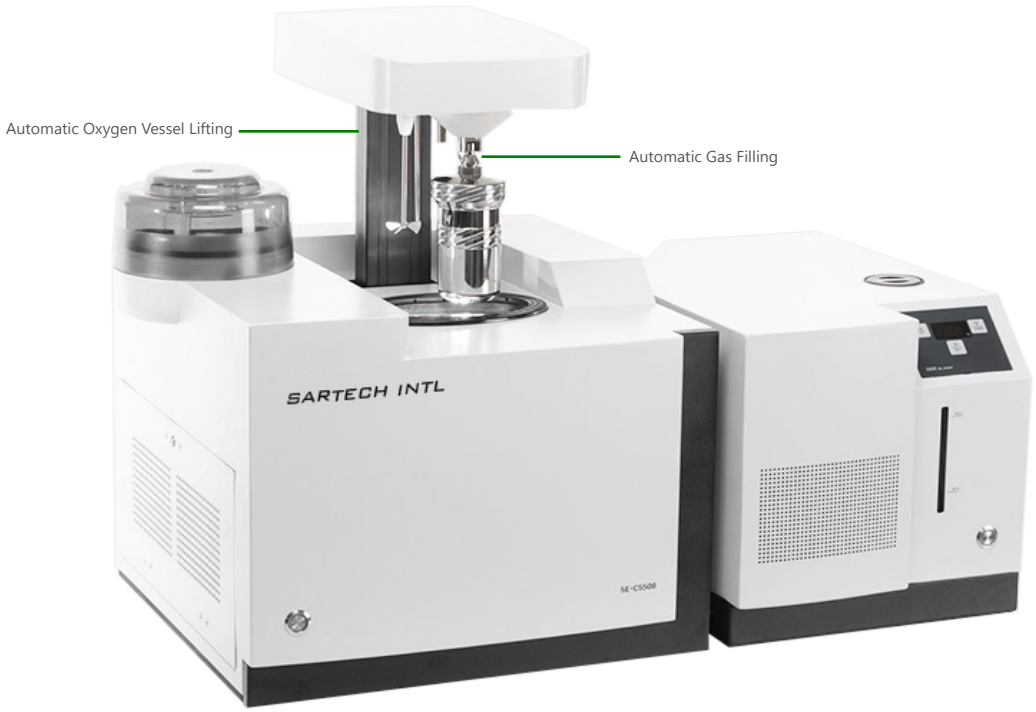
5E-C5508
Automatic Calorimeter

Standard Configuration

Main analyzer: Controlling Unit and Chiller
Standard CV bomb
Computer
Handle Oxygen Charger
Crucibles
Ignition Wire
Benzoic Acid
O-ring kit
Tool kit

Optional Configuration

Lens paper
Pellet press
Halogen Resistant Oxygen Vessel



Features

With all 5E-C5500 features, additionally:

Fully Automatic Oxygen Charging System

Integrated oxygen charging system, straight connection to oxygen cylinder via regulator, controlled by solenoid valve, 5E-C5508 is available for oxygen charging automatically.

Fully Automatic Oxygen Vessel Lifting System

Convenient operation compared with manual filling, in case of any slipping off.
Water filling and draining during lifting, minimize the time for analysis and preparation.

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5E-C5500
Automatic Calorimeter

Standard Configuration

Main analyzer: Controlling Unit and Chiller
Standard CV bomb
Computer
Handle Oxygen Charger
Crucibles
Ignition Wire
Benzoic Acid
O-ring kit
Tool kit

Optional Configuration

Lens paper
Pellet press
Bench-top oxygen charger
Halogen Resistant Oxygen Vessel

Features

True Isoperibol Calorimeter

The jacket surrounding the vessel is kept at constant temperature with an accuracy to 0.1°C during analysis. Supports for the vessel are made of a very low thermal conductivity plastic. To minimize heat convection, water is added on the sides, top and bottom of the bucket.

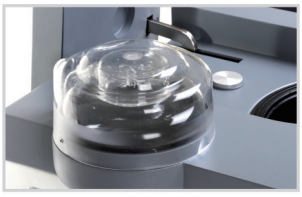

Superior Oxygen Vessel Design

High Automation and Efficiency

1. Dynamic method is available, without compromising accuracy or precision.
2. Second oxygen vessel and sample can be prepared while the current sample is being analyzed.
3. Two calorimeters can be controlled by one PC. Sample mass can be transferred to PC directly.

Optimized Design for Reliable Test Result

1. A reliable quantitative measuring cup ensures stable water volume of the bucket.
2. Closed-loop water circulation assures the purity of water system without any additional solution.
3. Filter in the bucket purify the water in circulation system.
4. Visible water level indicates the water volume, making it easy to feed sufficient water anytime to minimize the influence of water loss.


Quantitative Measuring Cup

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Test Data

Calibrate Mass, g	Temperature Rise	°C or °F	as-determined Heat Capacity	units
0.8207	2.1783	°C	9885	J/K
0.8115	2.1811	°C	9887	J/K
0.8881	2.3862	°C	9888	J/K
0.9111	2.4498	°C	9880	J/K
0.9746	2.6188	°C	9885	J/K
0.9965	2.6735	°C	9878	J/K
1.0957	2.9393	°C	9879	J/K
1.2052	3.2391	°C	9880	J/K
1.1251	3.0238	°C	9889	J/K
1.2214	3.2827	°C	9879	J/K
Average: 9883J/K			RSD:0.043%	

Remarks: As per ASTM-D5865, the precision of ten acceptable calibration test runs shall have a relative standard deviation (RSD) no greater than 0.17%. Model 5E-C5500 specification is ≤0.10% RSD.

Conclusion: 5E-C5500 Automatic Calorimeter exceeds the ASTM Precision Requirement.

Specification*

Model	5E-C5508	5E-C5500
Conforms to Method	AS 1038.5, ASTM D5865, ASTM D4809, ASTM E711, BIS 1350, BS EN 15400, GB/T 213, GB/T 30727, ISO 1928, ISO 9831,ISO 18125, ASTM D240	
Measuring Range	Up to 50000J	
Temp. Resolution	0.0001°C	
Control Ability	2 Units / 1 PC available	
Analysis Time per Sample	within 6 to 10mins	
Jacket Type	Isoperibol	
Ignition Method	Ignition Wire	
Vessel Identification	Yes	
Heat Capacity Stability	≤0.2% within one year	
Balance Connection	Available	
Network Connection	Available	
Bucket Filling	Automatic	
Oxygen Filling	Automatic	Semi-Automatic
Structure	Benchtop	Benchtop/Vertical
Bomb Vessel Lifting	Automatic	Manual
Power Supply	Single phase, AC220±10%, 50/60Hz, ≤500W	
Net Weight	80kg	Bench top: 75kg Vertical type: 103kg
Dimensions (L×W×H)	Analysis unit: 580×550×550mm Temp. control unit: 370×540×400mm	Bench top: 480×500×420mm (Analysis Unit) 370×500×420mm (Temp. Control Unit) Vertical: 480×400×940mm

*continous product improvement may necessitate changes in specifications

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5E-MAG6700

Automatic Proximate Analyzer-TGA

Standard Configuration

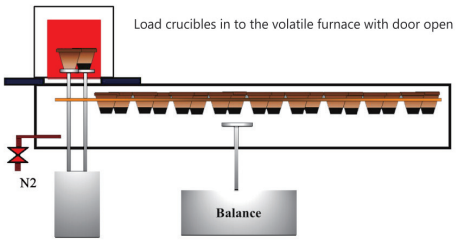
Computer
Main analyzer: Part I and Part II
Air compressor
Volatile matter crucibles
Ash Crucible
Weighing rod base
Weighing rod
Three-core power socket and plug/20A
Crucible lid for volatile matter
Glass spoon (small size)
Standard Reference Material (GBW)
Tool kit

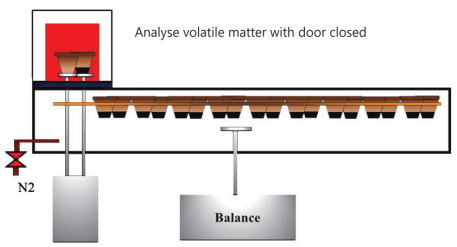
5E-MVC6700

Automatic Volatile Matter Analyzer

Application

5E-MAG6700 Automatic Proximate Analyzer (also called Thermogravimetric Analyzer), is used to determine the moisture, ash, volatile matter in coal, coke, biomass, limestone and iron ore, food and feedstuffs by thermogravimetric method while 5E-MVC6700 only available in volatile matter determination. It can also determine residual ash and slag combustibles in accordance with ASTM, which is widely applied in power plants, coal mines, metallurgy, food industry, chemical industry, commercial inspection, scientific research, education, etc.





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Features

High Stability and Reliability

1. Patented technology of heat-resistant to ensure stability and reliability.
2. Built-in balance ensures unbeatable accuracy, comply with thermogravimetric method.
3. Unique design to ensure the stability of heating efficiency.
4. Using blank crucible to calibrate the influence of the thermal buoyancy.

Convenient Operation

1. The operator is limited to just adding sample to a crucible.
2. Reference method and customized method available.
3. Capable to load sample continuously and singly.
4. Real time display of balance reading, which makes it convenient to control the precision of sample weight.

Cost Saving

Available for analysis without oxygen and nitrogen by configured air pump, except for lignite.

Additional Features for 5E-MAG6700

The dual furnace could work both simultaneously and independently. Unique isolation board to ensure accurate result of volatile matter.
Automatically heating off when open the ash furnace cover.

Test Data

Sample Name	M_{ad}(%)	A_d(%)	V_d(%)
GBW11109f-1	3.13	30.91	19.16
GBW11109f-2	3.13	30.93	19.26
Average	3.13	30.92	19.21
Certified Value	-	30.97	19.09
ASTM D7582 Repeatability Limit (r)	0.24	0.69	0.56
ASTM D7582 Reproducibility Limit (R)	-	0.85	1.52
Repeatability	0.00	0.02	0.10

Precision Verification by using ASTM Method (950°C for 7 minutes Volatile Matter)
Conclusion: This 5E-MAG6700 Automatic Proximate Analyzer passed the manufacturer's specification.

Specification

Model	5E-MAG6700	5E-MVC6700
Conforms to Method	ASTM D7582, ISO 17246, GB/T 30732, GB/T 212, ISO 18123/18122/18134, ISO 11722, ISO 1171	ASTM D7582, ASTM D5142, ISO 18123
Max. Sample Loading	19	
Furnace	Dual furnace	Single Furnace
Analysis Time	≤120mins for 19 samples	
Sample Mass	0.8-1.2g recommended / up to 5g	
Temp. Range	Up to 1000°C	Up to 950°C
Temp. Control Precision	± 2 °C	
Balance Precision	0.0001g	
Power Supply	Single phase, AC220±10%, 50/60Hz Part I: ≤ 4kW Part II: ≤ 5kW	Single phase, AC220±10%, 50/60Hz, ≤ 4kW
Net Weight	Part I: 80kg Part II: 50kg	80kg
Dimensions (L×W×H)	Part I: 550mm×580mm×890mm Part II: 550mm×580mm×530mm	550mm×580mm×890mm

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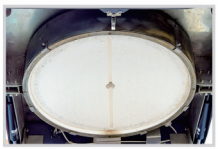
5E-MAC6710 5E-MACIV

Proximate Analyzer - TGA

Standard Configuration

Computer
Main analyzer
Air compressor
Crucibles
Weighing rod base
Tool kit
Weighing road
Three-core power socket and plug/20A
Crucible lid for volatile matter
Glass spoon(small size)
Standard Reference Material(GBW)



Embedded Furnace Wire

Automatic Cover
Open & Close Button
(*Only available in MAC6710)

Features

High Efficiency

1. Up to 19 samples can be determined within 2 hours for moisture, ash, volatile matter analysis and to calculate the fixed carbon.
2. Embedded furnace wire is adopted, which makes the operation more safer with more uniform furnace temperature.
3. Double control (One PC controls two furnaces) is available.

High Accuracy

1. Thermogravimetric technology with blank crucible calibration in the same atmosphere to ensure weighing accuracy.
2. Adjustable ramp rate and real-time display for thermal weight curve, manage data and graph seamlessly.

Easy Operation

1. Real time display of balance reading, which makes it convenient to control the precision of sample weight.
2. Wide application for limestone, cement, iron ore.

Additional Features for MAC6710

1. 5E-MAC6710 uses sheathed thermocouple, which has strong corrosion resistance and longer service life.
2. Furnace cover can be opened and closed automatically by pneumatic system, no heat hazard and labor saving.

Specification

Model	5E-MAC6710	5E-MACIV
Comforms to Method	ASTM D7582, ASTM D5142, ISO 17246, GB/T 30732, ASTM D3175	
Control Ability	2 units/1 PC available	
Maximum Ramp Speed	50°C/min	
Analysis Time	≤120mins for 19 samples of three parameters ≤120mins for 38 samples of three parameters (Double Control)	
Sample Mass	0.8-1.2g recommended / up to 5g	
Temp. Range	Up to 1000°C	
Temp. Control Precision	±2°C	
Power Supply	Single phase, AC220±10%, 50/60Hz, ≤5kW	
Net weight	50kg	
Dimensions(L×W×H)	550mm×580mm×530mm	

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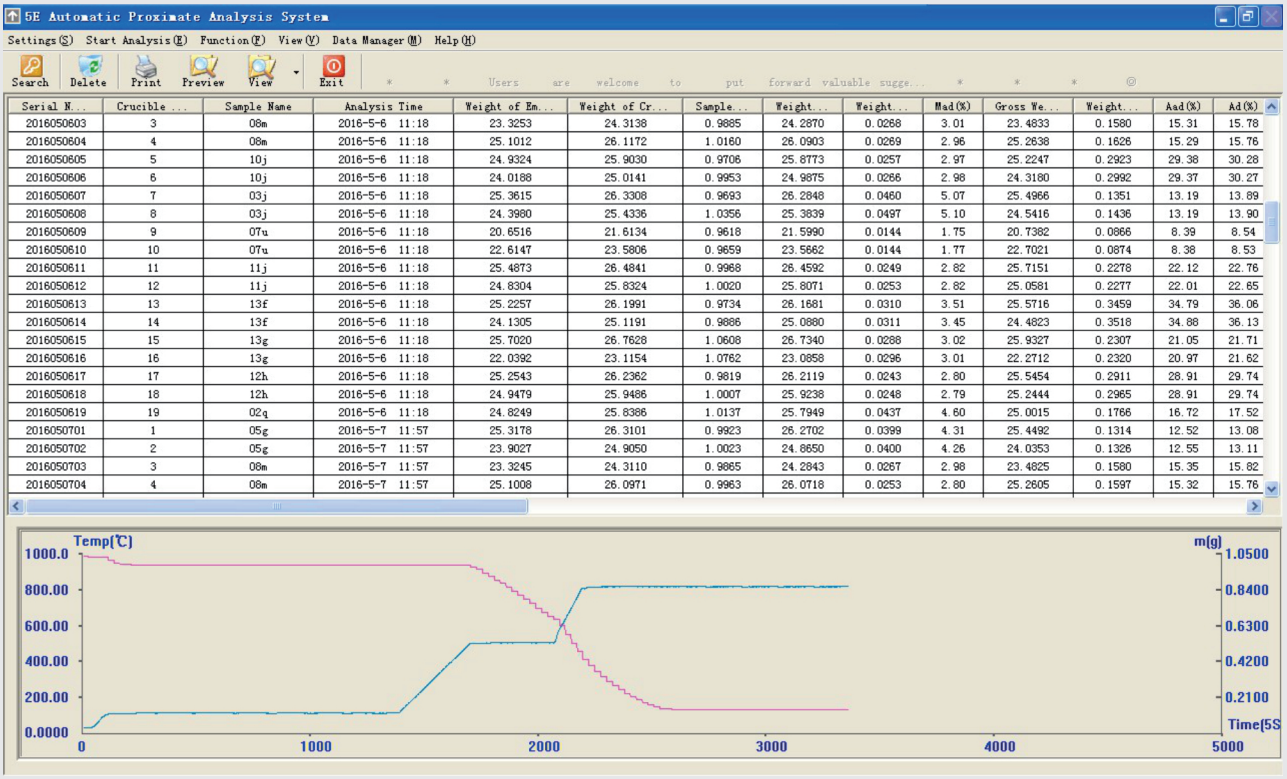
Adjustable Ramp Rate and Real-time Display for Thermal Weight Curve

The heating rate can be set according to the requirements of ASTM, ISO and CEN standard for the coal sample and biomass sample analysis. Thermal weight curve (temperature -mass changes curve) can be drawn. The data can be exported to Excel.



Serial N...	Crucible ...	Sample Name	Analysis Time	Weight of Em...	Weight of Cr...	Sample...	Weight...	Weight...	Mad(%)	Gross We...	Weight...	Aad(%)	Ad(%)
2016050603	3	08m	2016-5-6 11:18	23.3253	24.3138	0.9885	24.2870	0.0268	3.01	23.4833	0.1580	15.31	15.78
2016050604	4	08m	2016-5-6 11:18	25.1012	26.1172	1.0160	26.0903	0.0269	2.96	25.2638	0.1626	15.29	15.76
2016050605	5	10j	2016-5-6 11:18	24.9324	25.9030	0.9706	25.8773	0.0257	2.97	25.2247	0.2923	29.38	30.28
2016050606	6	10j	2016-5-6 11:18	24.0188	25.0141	0.9953	24.9875	0.0266	2.98	24.3180	0.2992	29.37	30.27
2016050607	7	03j	2016-5-6 11:18	25.3615	26.3308	0.9693	26.2848	0.0460	5.07	25.4966	0.1351	13.19	13.89
2016050608	8	03j	2016-5-6 11:18	24.3980	25.4336	1.0356	25.3839	0.0497	5.10	24.5416	0.1436	13.19	13.90
2016050609	9	07u	2016-5-6 11:18	20.6516	21.6134	0.9618	21.5990	0.0144	1.75	20.7382	0.0866	8.39	8.54
2016050610	10	07u	2016-5-6 11:18	22.6147	23.5806	0.9659	23.5662	0.0144	1.77	22.7021	0.0874	8.38	8.53
2016050611	11	11j	2016-5-6 11:18	25.4873	26.4841	0.9968	26.4592	0.0249	2.82	25.7151	0.2278	22.12	22.76
2016050612	12	11j	2016-5-6 11:18	24.8304	25.8324	1.0020	25.8071	0.0253	2.82	25.0581	0.2277	22.01	22.65
2016050613	13	13f	2016-5-6 11:18	25.2257	26.1991	0.9734	26.1681	0.0310	3.51	25.5716	0.3459	34.79	36.06
2016050614	14	13f	2016-5-6 11:18	24.1305	25.1191	0.9886	25.0880	0.0311	3.45	24.4823	0.3518	34.88	36.13
2016050615	15	13g	2016-5-6 11:18	25.7020	26.7628	1.0608	26.7340	0.0288	3.02	25.9327	0.2307	21.05	21.71
2016050616	16	13g	2016-5-6 11:18	22.0392	23.1154	1.0762	23.0858	0.0296	3.01	22.2712	0.2320	20.97	21.62
2016050617	17	12h	2016-5-6 11:18	25.2543	26.2362	0.9819	26.2119	0.0243	2.80	25.5454	0.2911	28.91	29.74
2016050618	18	12h	2016-5-6 11:18	24.9479	25.9486	1.0007	25.9238	0.0248	2.79	25.2444	0.2965	28.91	29.74
2016050619	19	02q	2016-5-6 11:18	24.8249	25.8386	1.0137	25.7949	0.0437	4.60	25.0015	0.1766	16.72	17.52
2016050701	1	05g	2016-5-7 11:57	25.3178	26.3101	0.9923	26.2702	0.0399	4.31	25.4492	0.1314	12.52	13.08
2016050702	2	05g	2016-5-7 11:57	23.9027	24.9050	1.0023	24.8650	0.0400	4.26	24.0353	0.1326	12.55	13.11
2016050703	3	08m	2016-5-7 11:57	23.3245	24.3110	0.9865	24.2843	0.0267	2.98	23.4825	0.1580	15.35	15.82
2016050704	4	08m	2016-5-7 11:57	25.1008	26.0971	0.9963	26.0718	0.0253	2.80	25.2605	0.1597	15.32	15.76

New Analysis Procedure

MAC6710 adopted new analysis process of volatile, ash content and the temp. controlling timing, which has increased the analysis precision of ash and volatile content to satisfy the precision requirements of ASTM. The ash analysis result can meet the demand without calibration, and the volatile analysis result can satisfy the requirements after calibration.

Name	A_d	$A_{d.sv}$*	A_d-$A_{d.sv}$	Uncertainty	V_d	$V_{d.sv}$*	V_d-$V_{d.sv}$	Uncertainty
AR1722	22.48	22.42	0.06	0.2	21.06	21.6	-0.54	0.6
AR1722	22.48	22.42	0.06	0.2	21.13	21.6	-0.47	0.6
AR2773	4.81	5.03	-0.22	0.24	28.91	29.48	-0.57	0.98
AR2773	4.89	5.03	-0.14	0.24	29.21	29.48	-0.27	0.98
AR2776	22.54	22.42	0.12	0.39	21.13	21.6	-0.47	1.2
AR2776	22.42	22.42	0	0.39	21.16	21.6	-0.44	1.2
AR2778	28.8	28.67	0.13	0.14	20.32	20.14	0.18	0.5
AR2778	28.8	28.67	0.13	0.14	20.32	20.14	0.18	0.5
AR2782	12.4	12.53	-0.13	0.11	37.97	38.96	-0.99	1.73
AR2782	12.47	12.53	-0.06	0.11	38.02	38.96	-0.94	1.73
AR2783	17.44	17.58	-0.14	0.14	6.32	6.08	0.24	0.3
AR2783	17.47	17.58	-0.11	0.14	6.23	6.08	0.15	0.3

*$A_{d.sv}$ stands for A_d Standard Value, $V_{d.sv}$ stands for V_d Standard Value

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5E-MA2715 / MA2735

Automatic Moisture and Ash Analyzer

5g and 30g Crucible

Applications

Automatic analysis of moisture, ash and volatile matter in solid samples.

- Grain
- Medicine
- Feed material
- Dairy product
- Polymer
- Plastics
- Coal
- Petroleum
- Mineral
- Wheat
- Flour
- Health product

Features

Small in size and big in capacity

For 5E-MA2735 sample mass range is 0-5g while the range of MA2715 is 0-30g. 5E-MA2735 can be applied to test a variety of samples.

Easy operation

1. The sample loader of a proper height and large touch screen make operation easier and more convenient.
2. Equipped with additional functions such as Restoration after Power Failure, Data Analysis, Weight Range Determination and Problem Diagnosis.

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High Automation and efficiency

1. After loading, the procedure will carry on as required to control temperature change, weigh sample, calculate constant weight and test result. Operator can walk away and control more than one equipment simultaneously.
2. The cooling module will automatically make temperature drop to improve test efficiency.
3. Analysis time is shortened and energy saved up to 60%. One 5E-MA2735 equals 4 muffle furnaces plus 2 drying ovens.

Smart in technology

1. Built-in balance, can weigh samples continuously. Quick and stable weighing with electromagnetic induction positioning technology. External balance is available for option as well.
2. There are 20 stages in temperature control. In each stage, it is allowed to set according to different conditions and special requirements temperature at beginning, temperature rising speed, temperature in the end, gas supplied, gas glow, display and report.

Safe and reliable

It is safer when there is no need for operator to place and take crucible in high temperature. It is more reliable in that the electric heating wire is buried inside furnace wall with two thermocouples to prevent overheating.

Accurate and precise

Avoid human mistakes of traditional method in weighing, transmission and calculation through self-inspection, the analyzer guarantees a more accurate and precise test result.

Specification

Models	5E-MA2715	5E-MA2735
Max. Sample Loading	14	35
Sample Mass	0-30g	0-5g
Balance Resolution	0.0001g	
Temp. Range	0-1000°C	0-800°C
Temp. Control Precision	±2°C	
Temp. Ramp Rate	0-50°C/min	
Temp. Control Stage	20	
Gas Supplied	Air/nitrogen/oxygen	
Gas Flow	0-20L/min	
Automatic Cooling	Yes	
Overheating Protection	Double thermocouples	
Power Supply	Single phase, AC220±10%, 50/60Hz, ≤ 6kW	
Net Weight	70kg	
Dimensions (L×W×H)	705×685×550mm	

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5E-MW6513

Automatic Moisture Analyzer

Features

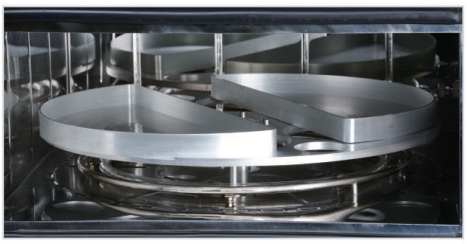
For 5E-MW6513

1. Capable of drying with nitrogen for arbitration purposes.
2. Built-in balance for real-time display, which makes it convenient to control the precision of sample weight.
3. Equipped with the functions of power-off protection.
4. Auto-alarm of sample mass limit and out-of-tolerance results.

Specification

Model	5E-MW6513
Sample Type	13mm,6mm Total Moisture Sample
Sample Mass	2 of 500g(13mm) Total Moisture Sample 6 of 100g(6mm) Total Moisture Sample
Analysis Method	Nitrogen Charging or Air Drying
Coal Type	Anthracite, Bituminous, Lignite and Coke
Temp. Control Range	Room Temperature-150°C
Temp. Control Precision	±2°C
Weighing Method	Built-in Balance, Real-time Weighing
Power Supply	Single phase, AC220±10%, 50/60Hz, ≤2.5kW
Net Weight	60kg
Dimensions (L×W×H)	700mm×650mm×625mm

5E-MW6513 Internal View



2 of 500g (13mm) Total Moisture Samples

6 of 100g (6mm) Total Moisture Samples

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5E-IRSII

Automatic Infrared Sulfur Analyzer

Standard Configuration

Computer	A/C adapter	Crucibles	Boat stop
Tool kit	H_2O sorb reagent	Outer combustion tube	O-ring kit
Main analyzer	Silica wool	Inner combustion tube	Standard Reference Material(GBW)

Application

5E-IRSII Infrared Sulfur Analyzer is used to determine the total sulfur content in coal, coke by infrared absorption, which is widely applied in power plants, coal mines, metallurgy, chemical industry, commercial inspection, scientific research, etc.

Features

Stability and Accuracy

1. Top quality ultra-low drift infrared cell to ensure stability, precision and accuracy.
2. Reliable single Si-C spiral tube heating components.
3. Unique gas tightness structure to avoid the effect of SO_2 in air.

Easy Operation

1. The sample mass can be automatically sent to the computer by balance connection.
2. Upgraded gas circuit design and reliable components to minimize the maintenance work.
3. Unique "Quick Start" Button to simplify the operation.

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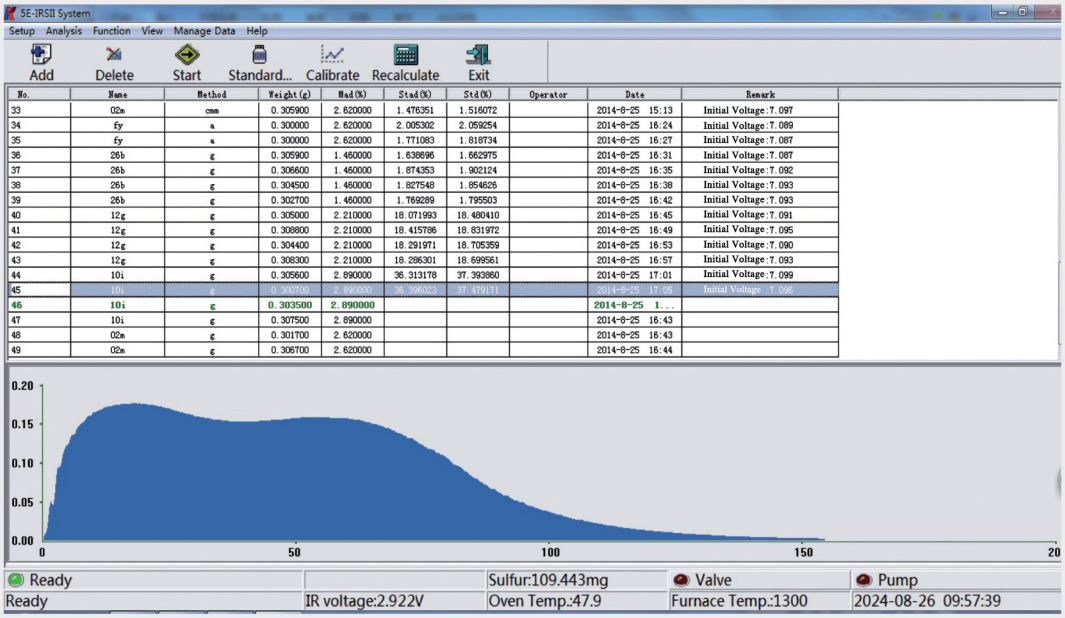
Intelligent Software System



Test Data

Sample Name	Sample Weight	Mad (%)	Stad (%)	Std (%)	
Control 6H0160-1	0.3092	5.16	2.482	2.617	
Control 6H0160-2	0.3077	5.16	2.496	2.632	
Average				2.624	
Reference Value				2.625	(+/- 0.066)
ASTM D4239-10 Repeatability Limit (r)				0.099	
ASTM D4239-10 Reproducibility Limit (R)				0.256	
Repeatability				0.015	
Reproducibility				0.001	

Conclusion: 5E-IRSII Infrared Sulfur Analyzer exceeds the ASTM precision requirement

Specification

Model	5E-IRSII
Conforms to Method	AS 1038.6.3.3, ASTM D1552, ASTM D3177, ASTM D4239, ASTM D5016, ISO19579, GB/T 214, GB/T 25214, GB/T 28732, BS 1016
Max. Sample Loading	1 sample per batch manually
Analysis Method	Infrared absorption
Analysis Resolution	0.01% or 100ppm
Sulfur Range	0.1%-30% customized range available
Analysis Time per Sample	≤150s
Analysis Temp	1300°C
Temp. Control Precision*	± 1°C *
Sample Mass	200mg-400mg depending on sample condition
Power Supply	Single phases, AC220±10%, 50/60Hz, ≤4kW
Net Weight	60kg
Dimensions (L×W×H)	540mmx700mmx610mm

* Varies with age of heating element

SARTECH INTL

5E-CS3800

Infrared Carbon Sulfur Analyzer

Standard Configuration

Computer	Crucibles
Main analyzer	Outer combustion tube
A/C adapter	Inner combustion tube
Anhydrone	Boat stop
Silica wool	O-ring kit
Tool kit	Standard Reference Material(GBW)

Application

5E-CS3800 Infrared Sulfur Carbon Analyzer is developed on the basis of 5E-IRS3600, which is used to determine the carbon and sulfur content in coal, coke, biomass, SRF and other organic combustibles. With the pioneering technology of auto loading and combustion, it can realize automatic analysis for large quantity samples with accurate results, which helps to minimize the manual operation and make the analysis easier.

Features

High Automation and Efficiency

1. Unique dual oxygen lance to increase the combustion efficiency
2. Maximum throughput with auto-loader, available for 60 samples per batch and easy to add or reduce sample quantity during analysis.
3. Patented sample delivering system realizes smooth work flow of pulling and discharging samples.
4. The sample mass can be automatically sent to the computer by balance connection.
5. Available for unattended operation by intelligent sensor.
6. Auto self-diagnosis and language alert.

Accuracy and Stability

1. Top quality ultra-low drift infrared cell to ensure stability of the testing results.
2. Reliable single Si-C spiral tube heating components.
3. Unique gas tightness structure to avoid the effect of SO_2 in air.

Easy Operation

1. Optimized gas circuit to minimize maintenance time.
2. Flow meter display the gas flow in real time.

Specification

Model	5E-CS3800
Analysis Content	Carbon, Sulfur
Conforms to Method	GB/T 25214, GB/T 30733,DL/T 568, ASTM D4239,AS 1038.6.3.3, ASTM D1552, ASTM D3177, ASTM D4239, ASTM D5016, ISO19579, GB/T 214, GB/T 25214, GB/T 28732, BS 1016
Analysis Range	Sulfur: 0.1%-30% Carbon: 0.5%-100%
Max. Sample Loading	Up to 60 samples per batch automatically (able to add in cycle)
Analysis Method	Infrared absorption
Analysis Resolution	Sulfur: 0.01% or 100ppm Carbon: 0.05% or 500ppm
Analysis Time per Sample	≤120s
Sample Mass	100mg-400mg depending on sample condition
Power Supply	Single phases, AC220±10%, 50/60Hz, ≤4kW
Net Weight	70kg
Dimensions(L×W×H)	980mm×615mm×680mm

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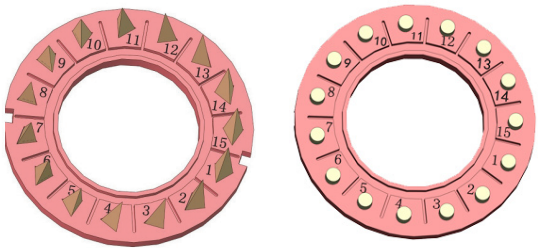
5E-AF42 Series

Ash Fusion Determinator

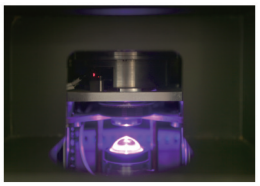
Standard Configuration

Computer	Dextrine
Main analyzer	Magnesia
A/C adapter	Combustion cup
Ash cone plate	Duab kit
Activated carbon	Ash cone module
Graphite	Gasket kit
Tool kit	

Standard Reference Material (GBW)



Ash cone & cylinder images can be recognized from room temperature



Automatically monitor analysis process and provide high-definition image of experiment by industrial camera.

Application

5E Series Ash Fusion Determinator automatically monitors ash cone deformation temperatures in coal ash, coke ash, biomass ash and mold powders automatically, which are critical to proper boiler functioning and to avoid slagging and fouling.

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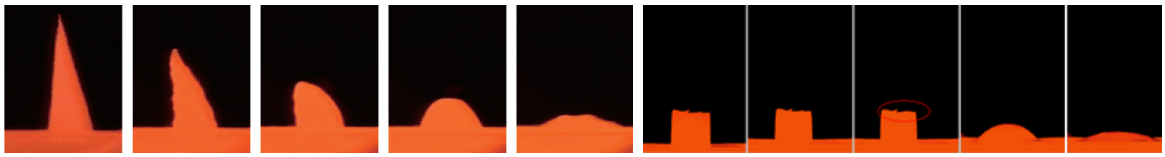

Automatically monitor analysis process and provide high-definition image of experiment by industrial camera

Features

Unique Structure for easy upgrade

5-15 samples per batch accordingly to different models, capable of further expansion of sample quantity.

High Automation

1. Optimized sample-loader with high reliability.
2. Auto power-off after analysis, shorten operator's stand-by time and prolong service life of high temperature parts.
3. Patented positive pressure dust removal device ensure zero maintenance of heat insulation glass.
4. Optional Analysis Atmosphere: CO and CO_2 or H_2 and CO_2 mixed gas, or carbon envelope method can be selected for weak oxidizing atmosphere, strong oxidizing atmosphere, and weak reducing atmosphere.
5. Friendly human-computer interaction interface and multi-point capacitive touch technology provide user an excellent experience.

High Precision

1. 1.3 Mega-pixel professional camera and self-developed intelligent image recognition algorithm can automatically recognize DT, ST, HT, and FT with reliable and accurate analysis result.
2. 5E-AF42 Series Ash Fusion Determinator owns 4 Spectrum Lighting Analysis Technologies, being in the leading position of the industry, which can identify the characteristics of the ash cone from normal temperature to the maximum temperature.

High Safety

1. Patented furnace design with hermetic structure, quantitative gas tightness test could be performed inside chamber.
2. Automatically check the gas leakage with auditory alarm and gas flow terminated if triggered.
3. Real-time monitor the exhaust discharging to improve the working efficiency of fan.

Specification

Model	5E-AF4215	5E-AF4210	5E-AF3000
Conforms to Method	ASTM D1857, UNI CEN/TS 15370, ISO 540, GB/T 219, PD CEN/TR 15404, ISO21404		ASTM D1857, ISO 540, GB/T 219
Max. Sample Loading	15 samples	10 samples	5 samples for GB/ASTM, 7 samples for ISO
Max. Temp	Up to 1600°C		
Temp. Control Precision	±1°C		
Image Frame	1 frame per 2°C		
Temp. Ramp Rate	4°C/min - 20°C/min adjustable according to standard requirement		
Analysis Atmosphere	Oxidizing atmosphere / Reducing atmosphere		
Power Supply	Single phase, AC220±10%, 50/60Hz, ≤3.8kW		Single phase, AC220±10%, 50/60Hz, ≤3.5kW
Net Weight	125kg		65kg
Dimensions(L×W×H)	520mm×627mm×1002mm		480mm×470mm×740mm

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5E Series C/H/N
Elemental Analyzer

Models Available

◎ 5E-CHN2200 to test Carbon, Hydrogen, Nitrogen content
◎ 5E-CH2200 to test Carbon, Hydrogen content
◎ 5E-TCN2200 to test Nitrogen/Protein content
◎ 5E-IRH2200 to test Hydrogen content

Standard Configuration

Computer
Main analyzer
2 layers carousels
Furnace reagent
High purity copper
N-Catalyst
H_2O sorb reagent
Standard Reference Materials (GBW)
CO_2 sorb reagent
Silica wool
Lower Crucibles
Upper Crucible
O-ring kit
Tool kit

Optional Configuration

Up to 4 layers carousels
4cm×4cm size tin-foil cup
Bigger size hole carousel

Up to 140 samples
Stackable auto loader
to 4 layers

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Application

5E Series C/H/N Elemental Analyzer is used to determine carbon, hydrogen, nitrogen/protein content in solid and liquid material, such as coal, coke, oil, petroleum, biomass, fertilizer, plastic, food, hydrocarbons, plant tissue, leaves and tobacco, which is widely applied in power plants, coal mines, metallurgy, chemical industry, commercial inspection, scientific research, food industry, education etc.

Features

Maximum Efficiency

1. High throughput: standard auto loader for 35 samples per layer, stackable to 4 layers available.
2. Dual-stage furnace system with pure oxygen flow to ensure the complete combustion of all samples.

Good Environment Adaptability

1. Optimum gas circuit provides good gas tightness of the system.
2. O-ring free from heat resource.

Minimum Consumption

1. Independent detectors to determine C, H, N respectively (IR for C, H, TCD for N). Analysis of CH mode and CHN mode can be chosen on software. (For 5E-CHN2200)
2. Saving time, gas and reagent: only 5.5ml blended gas needed to be analyzed.

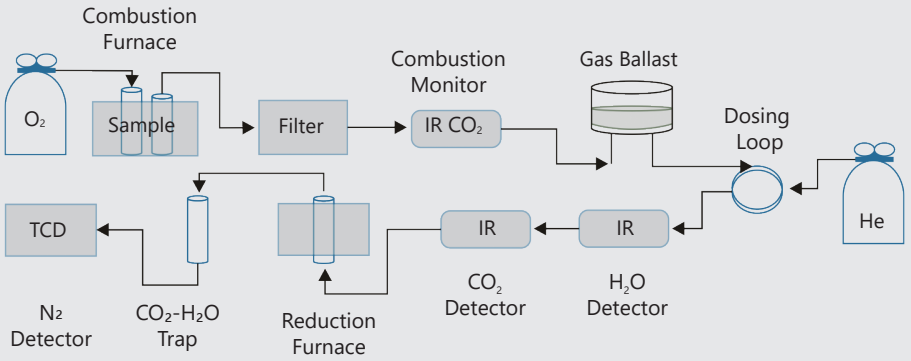
Unattended Operation

The operator is limited to just adding sample to auto sample loader. Then the instrument will finish the test, cool down and shut off automatically.

Working Principle

An encapsulated sample is placed into the loading head of the CHN2200, which is sealed and purged. The sample is then dropped into a hot furnace which contains high pressure pure oxygen, for very rapid combustion. Dust and ash are filtered before collection in the gas ballast. These collected gases are mixed, and then an aliquot dose is analyzed with IR detectors to give Hydrogen and Carbon value. All the gases pass through a reduction catalyst in order to form molecular nitrogen. Then CO_2 and H_2O trap ensure that only N_2 goes inside the TCD to be detected. The system is controlled by external PC using Windows based operating software.

Simplified Flow Diagram



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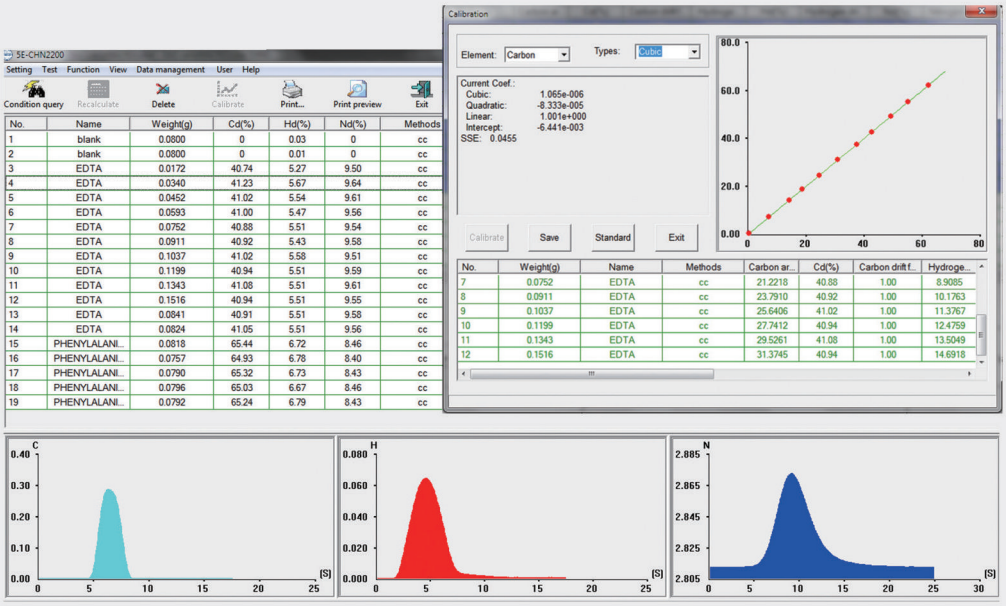
Custom Configuration, Maximum Flexibility

	Carbon-IR	Hydrogen-IR	Nitrogen-TCD
CHN	✓	✓	✓
CH	✓	✓	
CN	✓		✓
H		✓	

Intelligent Software System



Specification

Model	**5E-CHN2200**		
Conforms to Method	AS 1038.6.4, ASTM D5373, ASTM D5291, ISO 16634, ISO 16948, ISO 29541, EN 15407,EN ISO 16948:2015-0, GB/T 30728, GB/T 30733, UNI 15104, UNI CEN/TS 15407		
Analysis Time	7mins, depending on sample combustion conditions		
Sample Loader	Stackable auto loader, up to 140 samples by 4 layers		
Repeatability	Carbon(C_{ad})≤0.5%, Hydrogen(H_{ad})≤0.15%, Nitrogen(N_{ad})≤ 0.08%		
Sample Mass	Up to 1000mg, depending on sample matrix		
Temp. Resolution	1°C		
Gas Required*	Helium, 99.99%, 0.25 ± 0.01 Mpa		
	Oxygen, 99.99%, 0.25 ± 0.01 Mpa*		
	Nitrogen or compressed air, 0.25 ± 0.01 Mpa		
Measurement Range	Carbon: 0.02mg-150mg	Hydrogen: 0.1mg-12mg	Nitrogen: 0.04mg-50mg
Furnace Type	Resistance furnace (main furnace and furnace rear), max. temp 1050 °C		
Power Supply	Single phase, AC220 ±10% , 50/60Hz, 5.5kW		
Net Weight	110kg		
Dimensions(L×W×H)	690mm×750mm×720mm		

*Test Condition:
If N≤0.8%, 99.999% high purity oxygen is required.

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5E-DMA Series

Direct Mercury Analyzer

Standard Configuration

Sample Boat
Sample Holder
Low Pressure Mercury Lamp
Integrated Catalytic Amalgamation Tube
Amalgamation Tube Resistance Wire

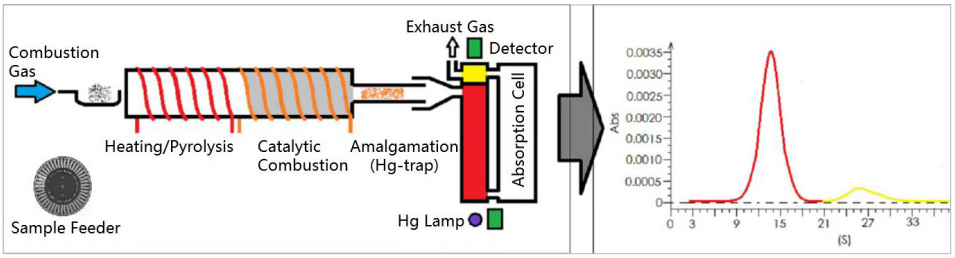
Optional Configuration

Nickle Sample Boat

Application

5E-DMA Series Direct Mercury Analyzer is used to determine mercury content in soil, sludge, waste water, food, produce, cosmetics, feed, fertilizer, coal, cooper concentrate, etc. It is able to directly measure the total mercury in solid and liquid samples without the need of complex sample pretreatment, effectively avoiding the loss of mercury in the pretreatment process, cross contamination and experimental environmental pollution, and ensuring the accuracy of the analysis data. Compared with the traditional chemical vapor generation- atomic fluorescence spectrometry method, the pyrolysis method is more efficient, accurate, stable and reliable in measuring mercury, which can greatly reduce labor intensity, and save 70% of analysis time and cost.

Principle



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Features

Wide Applicability

Suitable for solid and liquid samples, Able to detect samples in 6 different levels, 0.005ng-1500ng.

High Efficiency

Single test only takes 2-4mins, one batch includes 45 samples, and able to add sample in cycle at any time.

Easy Operation

Weigh sample and place it on auto feeder without digestion. Complete analysis with just one click on Start key.

Excellent Repeatability & Accuracy

Integrated catalytic-amalgamation tube ensures measurement repeatability; composite catalytic agent of high efficiency guarantees the accuracy of test results.

Low Cost

No need for dehydration consumables, consumable cost is 70% lower than the traditional method.

Eco Friendliness

No harmful chemicals are used in the whole analysis process. The exhaust gas produced by the analysis is effectively absorbed.

Precision of test methods (n=6)

Sample	Certified Material No.	Reference Value(mg/kg)	DMA3000Test Value(mg/kg)
Rice	GBW(E)100362	(0.0017)	0.0016±0.0002
Citrus leaf	GBW10020	0.150±0.020	0.149±0.003
Celery	GBW10048	0.0146±0.0024	0.0145±0.0005
Chicken	GBW10018	0.0036±0.0015	0.0033±0.0001
Soil	GSS-2	0.015±0.003	0.014±0.001
Soil	GSS-5	0.29±0.03	0.30±0.01
Coal	GBW10060	0.096±0.06	0.092±0.003
Coal of South Africa	SARM20	0.25±0.03	0.25±0.01

Specification

Model	5E-DMA3000	5E-DMA1000
Conforms to Method	EPA 7473, ASTM D6722, ASTM D7623, GB/T 5009.17, GB/T 31947, HJ923	
Principle	Pyrolysis-Mercury Amalgamation-Cold Atomic Absorption	
Sample Mass	1500mg(Solid) 1500μL(Liquid)	
Max. Sample Loading	45	20
Optical Source	Low-pressure Mercury Lamp	
Wave Length	253.7nm	
Detector	Double UV Photodetector	
Repeatability	RSD<1% @1ng Hg	
Analysis Time	2-4mins(depends on samples)	
Detection Limit	0.001ng	0.002ng
Working Range	0.005ng-1500ng	
Analysis Method	Adjustable according to samples	
Carrier Gas	Oxygen(>99.5%) or compressed air	
Energy Consumption	Peak<2200W, standby<100W	
Calibration	Standard Solution or CRM	
Net Weight	40kg	
Dimension(L×W×H)	590×460×330mm	
Power Supply	AC110/220V, 50/60Hz	

SARTECH INTL

5E Series
Fluorine / Chlorine Analyzer

Models Available

◎ 5E-FT2301 to test Fluorine content
◎ 5E-CLT2311 to test Chlorine content
◎ 5E-FL2350 to test Fluorine & Chlorine contents

Application

5E Series Fluorine / Chlorine Analyzer is used to determine the fluorine and chlorine in coal or other combustibles by combustion hydrolysis method (Ion selective electrode method for F and potentiometric titration method for Cl), which is widely applied in coal-fired plants, coal mines, steel plants, petrochemical industry, etc.

Features

High Automation
Automatic analysis process available after sample loading.

High Efficiency
Two sample analysis for each batch and continuous analysis available.

High Safety Assurance
Unattended operation with the protection of lack or overflow of water level.

Flexible Layout
No water tap is required around the instrument as it is equipped with water tank

Specification

Model	5E-FL2350	
	5E-FT2301	5E-CLT2311
Conforms to Method	Fluorine: GB/T 4633, ISO11724, AS 1038.10.4 Chlorine: GB/T 3558, ASTM D6721, ISO587, SN/T 3596	
Measuring Range	Fluorine: 20-2000μg/g	Chlorine: 0.003-0.4%
Sample Mass	0.5g	
High Temp. Furnace Precision	1100 ±10℃	
Analysis Time	1. Decomposition	35mins
	2. Calibration of electrode parameters	available to calibrate when decomposing the first batch of samples and not calculated to total analysis time
	3. Titration	Fluorine: 20mins / Chlorine: 20mins
	For dual sample analysis: 75mins For continuous analysis : 20min/ sample (average)	
Sensitivity of Electrode Potential	0.1mV	
Minimum Filling of Injection Pump	50μL	
Accuracy	Within uncertainty range of standard sample	
Repeatability	15 μg/g (F_{ad}≤150μg/g), 10% (F_{ad}>150μg/g), 0.010% (CL_{ad})	
Power Supply	Single phase, AC220±10%, 50/60Hz, ≤3.5kW	
Net Weight	Analysis Unit:130kg, Reservoir: 30kg	
Dimension (L×W×H)	Analysis Unit: 1400mm×600mm×610mm Reservoir: 900mm×500mm×510mm	

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SARTECH INTL

5E-HA0711

Hardgrove Grindability Index Tester

Standard Configuration

Main analyzer
Grinding bowl
Grinding balls
Sample loading assisting tools
Weights
Sieves (Available for ASTM/GB/ISO standard)
Standard Reference Material

Application

5E-HA0711 Hardgrove Grindability Index Tester is designed to measure the grindability of coal, which is widely applied in coal industry, power plant, metallurgy and chemical industry.

Features

High Automation

1. Auto-lifting of grinding bowl, auto-loading weights, auto-counting of revolution.
2. The operation is limited to only put the sample into the bowl for grinding, screen out the samples before grinding and after grinding, and enter the mass of two screen residues, then the HGI value will be calculated and printed out automatically.

Compact Structure

1. Built-in motor ensures the safety of operators, provides low noise environments.
2. Small space occupied and no moving parts exposed by integrated structure.

Intelligent Control

1. Real time displaying of working status and working process with intelligent control.
2. Built-in program of linear calibration curve, realizes automatic calculation.

Specification

Model	5E-HA0711
Comforms to Method	ASTM D409/409M, ISO 5074, GB/T 2565
Spindle Speed of Determinator	20±1r/min
Revolution of Determinator	60r
Mass of Test Sample	50g
Vertical Pressure of Grinding	284±2N
Diameter of Grinding Steel Ball	Φ25.4mm
Working Noise	<65dB
Sample Size	0.63mm-1.25mm
Power Supply	Single phase, AC220±10%, 50/60Hz, 225W
Net Weight	85kg
Dimensions (L×W×H)	385mm×435mm×695mm
Additional Tools Required: Sieves according to relative standards, Sieving Shaker and Crusher.	

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5E-HCB Series
Hammer Crusher

Application

5E-HCB Series Hammer Crusher is used for sample preparation of graininess material such as coal, limestone, mineral waste residue, oil shale etc.

Features

1. Hermetic structure for improving the operation environment and reducing sample contamination.
2. Equipped with three kinds of sieve plate. Patent for quick sieve plate replacement.
3. Unique crush chamber and fan-shape hammer design ensures the even discharging of sample.
4. Improved safety with protection shielding and emergency button.
5. Durable crushing components decrease the maintenance cost.
6. Equipped with air filter, prevent dust leakage efficiency.

Specification

Model	5E-HCB180×150	5E-HCB250×360
Feed Size	≤50mm	≤150mm
Discharge Size	≤1mm / ≤3mm / ≤6mm	≤3mm / ≤6mm / ≤13mm
	Customized Sieve Hole Size Available	
Moisture Adaptability	≤12%	
Approx. Hardness of Feeding Sample	HRC45-52	
Throughput	300-600kg/h	1200-1800kg/h
Diameter of Crusher Chamber	180mm	250mm
Power Supply	3 phases, AC380V±10%, 50/60Hz , 1.5kW	3 phases, AC380V±10%, 50/60Hz , 4kW
Noise	≤85dB	≤90dB
Net Weight	150kg	300kg
Dimensions(L×W×H)	560mm×790mm×1080mm	1052mm×740mm×1129mm

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SARTECH INTL

5E-HCA400×260

Humid Coal Hammer Crusher

Application

5E-HCA400×260 Humid Coal Hammer Crusher is especially designed to crush humid coal.

Features

1. Design of vibrating sieve plate structure leads to high moisture adaptability and less moisture loss to avoid blocking.
2. Hermetic structure improving the operation environment and easy for cleaning.
3. Equipped with 13mm and 6mm sieve plate, the discharge size is even and good.
4. Good safety with the transmission protection design.
5. Durable materials for hammer decrease the maintenance cost.

Specification

Model	5E-HCA400×260
Feed Size	≤150mm
Discharge Size	≤6mm / ≤13mm Customized Sieve Hole Size Available
Moisture Adaptability	≤20%
Throughput	1200-2000kg/h
Power Supply	3 phases, AC380V±10%, 50/60Hz, 5.5kW
Noise	≤95dB
Net Weight	350kg
Dimensions(L×W×H)	730mm×1120mm×1200mm

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SARTECH INTL

5E-JCA Series

Jaw Crusher

Application

5E-JCA Series Jaw Crusher is designed for primary crushing of medium-hard, brittle and tough materials. Typical sample material includes coal, coke, limestone and so on.

Features

1. Jaw plates with BTMcr20 material are reversible for extended life.
2. Patented design for easy and quick jaw gap adjustment provides good control of product sizing while minimizing downtime and labor service requirements.
3. Hermetic structure improving the operation environment and reducing sample contamination.
4. Improved safety with protection shielding and emergency button.
5. Access to the chamber through the front door makes it convenient to clean.

Specification

Model	5E-JCA100×60	5E-JCA150×125
Size of Feed Inlet	100×60mm	150×125mm
Maximum Feed Size	≤50mm	≤100mm
Discharge Size	≤3-13mm adjustable	≤6-38mm adjustable
Moisture Adaptability	≤12%	
Approx. Hardness of Feeding Sample	HRC48-55	
Throughput	200-500kg/h	500-2000kg/h
Power Supply	3 phases, AC380V±10%, 50/60Hz , 1.5kW	3 phases, AC380V±10%, 50/60Hz , 4kW
Noise	≤85dB	≤85dB
Net Weight	220kg	378kg
Dimensions(L×W×H)	880mm×580mm×795mm	1046mm×600mm×1090mm

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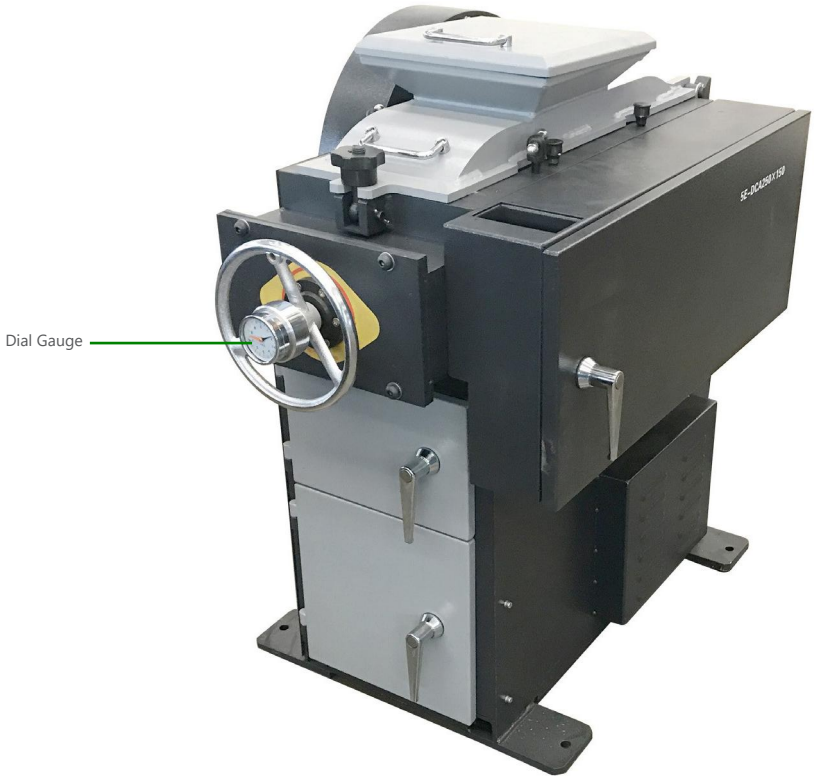
5E-DCA250×150
Double Roller Crusher



Application

5E-DCA250×150 Double Roller Crusher is used to crush medium hard material, which is widely used for the sample preparation in coal mines, power plants, metallurgy, geology, chemical industry and scientific research.

Features

1. Easy to operate, available to adjust discharge size by single-hand wheel.
2. Visible dial gauge ensures the precision of particle size.
3. Disassemble side guard with purge function, convenient to clean.
4. Hermetic structure improving the operation environment and reducing sample contamination.
5. Durable material for roller to decrease the maintenance costs.

Specification

Model	5E-DCA250×150
Roller Dimension	Φ250×150mm
Feed Size	≤13mm
Discharge Size	≤1-3mm (Adjustable)
Approx. Hardness of Feeding Sample	HRC60-65
Throughput	300-400kg/h
Power Supply	3 phases, AC380V±10%, 50/60Hz, 4kW
Noise	<82dB
Net Weight	365kg
Dimension (L×W×H)	930mm×585mm×885mm

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SARTECH INTL

5E-PCM Series

Pulverizer

Standard Configuration
Chromium Steel Grinding Bowl

Optional Configuration
Tungsten Carbide Grinding Bowl

Grinding Bowl

Application

5E-PCM Series Pulverizer is used to pulverize the sample after crushing in power plants, coal mines, chemical industry, metallurgy, building material and geology, in which an analysis sample of particulate material is prepared.

Features

1. Adopt customized vibration motor to realize a high efficiency.
2. Wear-resistant alloy steel, tungsten carbide and other materials are adopted to improve the wear resistance and prolong the service life.
3. The clamping mechanism of the bowl body adopts a rapid clamping structure.
4. Equipped with double-layer frame, multi-layer damping measures are taken to reduce the vibration energy, which overcomes the swinging and crawling.
5. It is easy to install without fixed foundations.
6. Good safety with power-off switch when open the lid.

Specification

Model	5E-PCM1×100	5E-PCM3×100
Number of Crushing Bowls	1	3
Gross Mass of Sample	1×100g	3×100g
Feed Size	≤13mm	
Discharge Size	≤0.2-0.071mm	
Approx. Hardness of Feeding Sample	HRC50-55	
Working Volume of Bowl	120-130ml	
Power Supply	3 phases, AC380V±10%, 50/60Hz, 1.5kW	
Noise	≤85dB	
Net Weight	170kg	190kg
Dimensions (L×W×H)	520mm×580mm×860mm	

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SARTECH INTL

5E Series Sample Divider

5E-MR1/8 Sample Divider

5E-MRA1/8 Rotary Sample Divider

5E-MR1/8
Sample Divider

5E-MRA1/8
Rotary Sample Divider

Application

5E Series Sample Divider is the updated motive division apparatus after simulating manual division. It is suitable for sample division in coal mine, iron ore, metallurgical coke and chemical industry.

Features

5E-MR1/8 Sample Divider

1. Dust free due to complete sealed design.
2. Easy to clean and no sample mixing.
3. Patent technology, easy to adjust the division ratio.

5E-MRA1/8 Rotary Sample Divider

1. Vibrating feeder to ensure the feed material even.
2. Rotary speed & feed location is adjustable.
3. Compact structure and easy to install and uninstall of the receiving buckets.

Specification

Model	5E-MR1/8	5E-MRA1/8
Feed Size	≤13mm	
Dividing Ratio	1/2,1/4,1/8 (Adjustable)	A (Default Option): 4 buckets (1×1/2,1×1/4, 2×1/8) B: 6 buckets (2×1/4, 4×1/8) C: 8 buckets (8×1/8)
Throughput	800kg/h	Max. 350kg/h
Moisture Adaptability	≤12%	≤12%
Power Supply	3 phases, AC380V±10%, 50/60Hz , 200W	Single phases,AC220V±10%, 50/60Hz , 250W
Noise	≤40dB	≤80dB
Total Capacity of Buckets	/	40kg
Net Weight	60kg	130kg
Dimensions(L×W×H)	720mm×660mm×750mm	855mm×560mm×1010mm

SARTECH INTL

5E-SSB200

Sieving Shaker

Additional cover ensures dust free and low noise

Application

5E-SSB200 Sieving Shaker is used for grade sieving of particulate materials, which is widely applied in power plants, coal mines, chemical industry, metallurgy, foodstuff and geology.

Features

1. Effectively reduce dust leakage with dust cover.
2. Combined sieving function of horizontal shaking and vertical vibration.
3. Easy installation of sample sieve, easy to clean and no sample mixing.
4. Excellent sieving efficiency.
5. Available to store three modes.
6. Screen display functions.

Specification

Model	5E-SSB200
Sieve Size Available	Φ200mm
Max. Sieve Layers	8
Sample Mass	200g
Sieving Particle Size	6-0.045mm
Vibration Frequency (per minute)	149
Vibration Amplitude	10mm
Shaking Frequency (per minute)	221
Power Supply	3 phases, AC380V±10%, 50/60Hz, 400W
Noise	≤90dB
Net Weight	110kg
Dimensions(L×W×H)	600mm×380mm×822mm

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