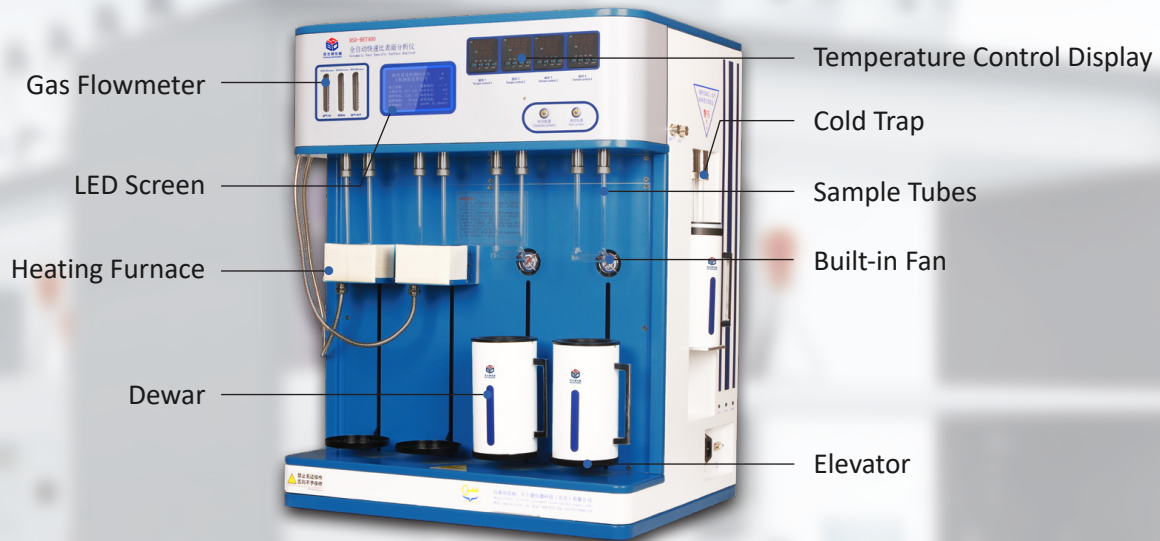


BSD-BET400

Auto Fast Specific Surface Area Analyzer



BSD INSTRUMENT
FOCUS ON SORPTION



Fast Surface Area Analysis for Battery Industry

Production Line Quality Control

Application: battery materials, metal and organic powders etc;

Feature

- ◆ High Precision: Above $0.01\text{m}^2/\text{g}$ of small surface area with relative error $\pm 1\%$;
- ◆ High Efficiency: 4 in-situ degassing and analysis stations;
- ◆ Analysis Principle: Dynamic Chromatographic Analysis (BET Single point);
- ◆ Efficiency: 4 samples analysis in ten minutes. High efficiency working with AD8 Pre-treatment Station;
- ◆ Free of standard reference sample;
- ◆ High Stability: high sensitivity of TCD with isothermal environment;

Patent Design

- ◆ **Thermostatic Quantitative Tube:** replace standard sample reference, and set in isothermal environment, providing stable reference testing data.
- ◆ **LN2 Temperature Monitor:** by monitoring LN2 temperature, system will eliminate the LN2 impurity influence
- ◆ **Purging and Heating Degassing:** in-situ heating degassing with N2 purging.
- ◆ **Unique Gas Pipeline Design:** Unique pipeline design achieving the same testing environment for samples, decrease background interference
- ◆ **Heating assisted desorption :** Reduce background error, ensure rapid desorption and achieve sharp peaks;
- ◆ **Thermostatic Design:** Zero drift inhibition with stable thermostatic environment for TCD signal, achieving less than 0.1mV in 10mins.
- ◆ **Cold Trap:** improve purity of gas.
- ◆ **Patent Sample Tube:** easy-loading sample tube design with high accuracy, limit-free from powder testing

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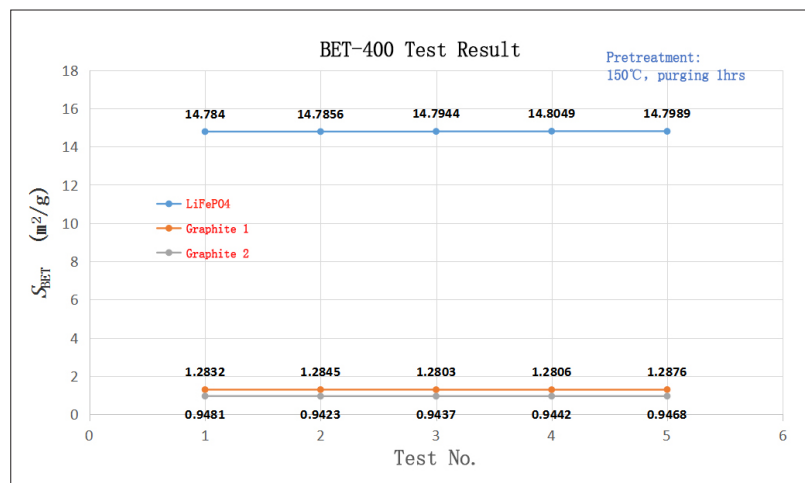
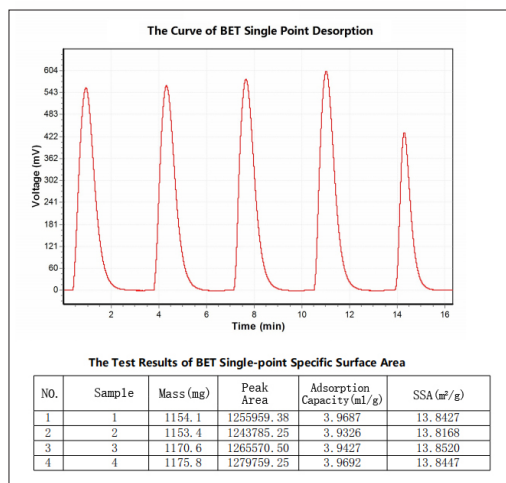


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Specifications

Model	BSD-BET400
Testing Theory	Low-temperature nitrogen adsorption in dynamic chromatography
Testing Method	BET Single point SSA
Analysis Station	4 samples concurrent analysis
Testing Gas	High-purity (99.999%) nitrogen-helium gas mixture 2:8
Recommend materials	lithium iron phosphate, ternary, graphite, lithium cobalt, oxide, lithium manganese oxide, etc.

Test report



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