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### Brand positioning:

Analytical instrument manufacturer, laboratory solution provider!

### Company introduction:

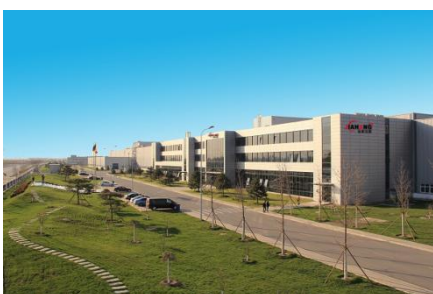
Shanghai Yuke Industry Co., Ltd. was established in 1999. It is a leading manufacturer of analytical instruments and laboratory equipment in China, and is known as a high-quality instrument manufacturer and perfect service provider. Committed to the research and innovation of scientific instruments and analytical methods in the food and pharmaceutical industries, in order to promote green food and health drugs, develop and produce analytical measuring instruments, and provide technical workers with application methods and comprehensive solutions.

Yuke professional R&D laboratory instruments include: **Thermal Analyzer (DSC/TGA/STA), Microwave Digester, Dissolution system, Melting point meter, Polarimeter, Refractometer, Density meter, Turbidity meter, Dropping point & Softening point tester, Micro heating table, Potentiometric Titration, Moisture meter, Osmometer, Viscosity meter, Hardness tester, Flash point tester ..** They are widely used in pharmaceutical and food quality control, education and research, environmental science, chemical engineering and other fields.

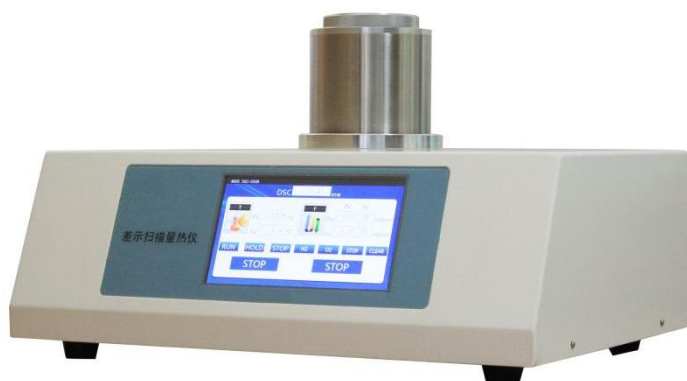
Yuke has established strict working standards and technical standards in R&D, parts procurement, standardized manufacturing, and production inspection. Yuke has obtained CE certification, TART certification, ISO quality management system certification, more than 10 software copyrights and multiple patents to ensure that each instrument has stable performance and excellent quality. Yuke headquarters was established in Shanghai, China, with 15 sales branches in China, sales agents in more than 10 overseas countries, and 2 production plants. At the same time, we have a top R&D team returned from Europe and America, cooperate with our superb manufacturing team, professional sales team and dedicated service team, working together to provide customers with high-tech, high-quality products and efficient, convenient, Comprehensive pre-sales and after-sales professional services.

At present, Yuke's products have been exported to more than 50 countries including the United States, Germany, France, Malaysia, Vietnam, India, Italy, etc. We are committed to participating in Arablab, PICCTON, Analytica Russia, Lab Africa, Analytica Germany, Analytica Latin America and other exhibitions. Open up different markets, and enjoy a good reputation with reliable quality, reasonable prices and good service to win a large market share.

Yuke is committed to providing customers with a better user experience and hopes to become a world-class scientific instrument manufacturer and laboratory solution provider!



## Differential scanning calorimeter (DSC)



### 基本介绍: Brief Introduction

DSC measures the relationship between temperature and heat flow related to the internal heat transition of materials. It has a wide range of applications, especially in the research and development, performance testing and quality control of materials. Such as material melting, glass transition temperature, crystallization and cold crystallization, phase transition, thermal stability, curing/crosslinking, oxidation rust lead period and so on. Yuke DSC in line with the national standard GB/T15065-2009, GB/T2951.42-2008, GB/T17391-1998, GB/T19466.6-2009 standard.

### 使用领域: Fields of use

It has a wide range of applications, especially in the research and development, performance testing and quality control of materials.

### 主要特点: The main features

- 1: Closed furnace structure, to ensure heating stability;
- 2: 100 for thermocouple, greatly improve temperature sensitivity and resolution;
- 3: New furnace structure, better resolution and resolution and better baseline stability;
- 4: Dual temperature probe to ensure high repeatability of sample temperature measurement;
- 5: The software ADAPTS to all brands of computers, supporting WinXP, Win7, Win8, Win10 and other operating systems;
- 6: Humanized operation interface, 8 inch LCD touch screen display, friendly interface, easy to operate.

### 主要技术指标: Technical parameters

Model	YK-DSC6	YK-DSC8
temperature range	Room temperature -600℃	Room temperature -800℃
Temperature resolution	0.01℃	0.01℃
Temperature accuracy	0.1℃	0.1℃
Temperature precision	±0.03℃	±0.03℃
DSC range	±500mW	±500mW
DSC resolution	0.001mW	0.001mW
Calorimetry accuracy	0.1%	0.1%
Heating rate	0.1~100℃ / min	0.1~100℃ / min
Cooling rate	0.1~50℃ / min	0.1~50℃ / min
Maximum data collection rate	50 pcs/ s	50 pcs/ s



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Temperature control method	Heating, constant temperature, cooling, cycle temperature control (full program automatic control)	Heating, constant temperature, cooling, cycle temperature control (full program automatic control)
Atmosphere control	Gas mass flow meter automatically switches between two gases	Gas mass flow meter automatically switches between two gases
Display method	8-inch color touch screen	8-inch color touch screen
Parameter standard	Equipped with standard samples, one-key automatic calibration, users can calibrate the temperature by themselves	Equipped with standard samples, one-key automatic calibration, users can calibrate the temperature by themselves
Data interface	USD2.0 interface, dedicated operating software	USD2.0 interface, dedicated operating software
Power supply	50Hz / 60 Hz AC220V	50Hz / 60 Hz AC220V

Model	YK-DSC6L	YK-DSC8L
DSC range	0~±500mW	0~±500mW
*temperature range	-100~600°C (liquid nitrogen refrigeration combined with Peltier refrigeration)	-100~800°C Liquid nitrogen refrigeration
Heating rate	1~80°C/min	1~80°C/min
Temperature resolution	0.1°C	0.1°C
Temperature fluctuation	±0.1°C	±0.1°C
Temperature repeatability	±0.1°C	±0.1°C
DSC noise	0.01μW	0.01μW
DSC resolution	0.01μW	0.01μW
DSC accuracy	0.1μW	0.1μW
DSC sensitivity	0.1μW	0.1μW
Temperature control method	Heating, constant temperature (full program automatic control)	Heating, constant temperature (full program automatic control)
Curve scan	Heating scan	Heating scan
Atmosphere control	Automatic switching of the instrument	Automatic switching of the instrument
Display method	24bit color, 8.1 inch LCD touch screen display	24bit color, 7-inch LCD touch screen display
Data interface	Standard USB interface	Standard USB interface
Parameter standard	Equipped with standard material (tin), users can calibrate the temperature and enthalpy by themselves	Equipped with standard material (tin), users can calibrate the temperature and enthalpy by themselves

## Differential Thermal Analyzer (DTA3320/3332)



### 基本介绍: Brief Introduction

High temperature differential thermal analyzer is a technique that measures the temperature difference and temperature relationship between a substance and a reference substance under a program-controlled temperature. The differential thermal analysis curve describes the relationship between the temperature ( $\Delta T$ ) of the sample and the reference material with temperature or time. In the DTA test, the temperature change of the sample is caused by the endothermic or exothermic effect of the phase transition or reaction. Such as: phase transformation, melting, transformation of crystalline structure, boiling, sublimation, evaporation, dehydrogenation reaction, fracture or decomposition reaction, oxidation or reduction reaction, destruction of lattice structure and other chemical reactions.





### 使用领域: Fields of use

High temperature differential thermal analyzer is a technique that measures the temperature difference and temperature relationship between a substance and a reference substance under a program-controlled temperature. The differential thermal analysis curve describes the relationship between the temperature ( $\Delta T$ ) of the sample and the reference material with temperature or time. In the DTA test, the temperature change of the sample is caused by the endothermic or exothermic effect of the phase transition or reaction. Such as: phase transformation, melting, transformation of crystalline structure, boiling, sublimation, evaporation, dehydrogenation reaction, fracture or decomposition reaction, oxidation or reduction reaction, destruction of lattice structure and other chemical reactions.

### 主要特点: The main features

The furnace body adopts an open-top structure, which replaces the traditional lifting furnace body, with high precision and easy operation.



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**主要技术指标： Technical parameters**

Model	YK-DTA3320	YK-DTA3332
temperature range	Room temperature~1150℃	Room temperature~1350℃
Measuring range	0~±2000μV	0~±2000μV
DTA accuracy	±0.1μV	±0.1μV
Heating rate	1~80℃/min	1~80℃/min
Temperature resolution	0.1℃	0.1℃
Temperature accuracy	±0.1℃	±0.1℃
Temperature repeatability	±0.1℃	±0.1℃
temperature control	Heating up: program control, parameter adjustment can be carried out according to needs;	Heating up: program control, parameter adjustment can be carried out according to needs;
	Cooling down: air cooling, program control	Cooling down: air cooling, program control
	Constant temperature: program control, constant temperature time can be set arbitrarily	Constant temperature: program control, constant temperature time can be set arbitrarily
Furnace structure	The furnace body adopts an open-top structure, which replaces the traditional lifting furnace body, with high precision and easy operation	The furnace body adopts an open-top structure, which replaces the traditional lifting furnace body, with high precision and easy operation
Atmosphere control	Automatic switching of internal programs	Automatic switching of internal programs
Data interface	Standard USB interface, supporting data cable and operating software	Standard USB interface, supporting data cable and operating software
Host display	24bit color, 7 inch LCD touch screen display	24bit color, 7 inch LCD touch screen display
Parameter standard	Equipped with standards, with one-key calibration function, users can calibrate the temperature by themselves	Equipped with standards, with one-key calibration function, users can calibrate the temperature by themselves
Baseline adjustment	Users can adjust the baseline through the slope and intercept of the baseline	Users can adjust the baseline through the slope and intercept of the baseline
Power supply	AC 220V 50Hz	AC 220V 50Hz

## Thermogravimetric Analyzer (TGA350/550)



### 基本介绍: Brief Introduction

The High-precision thermogravimetric analyzer has obtained a national patent, patent number ZL 2009 0039640.8. Thermogravimetric analysis (TG, TGA) is to observe the change of sample quality with temperature or time during the process of heating, constant temperature or cooling, and the purpose is to study the thermal stability and composition of materials. It is widely used in research and development, process optimization and quality monitoring in various fields such as plastics, rubber, coatings, pharmaceuticals, catalysts, inorganic materials, metal materials and composite materials.

### 使用领域: Fields of use

The High-precision thermogravimetric analyzer has obtained a national patent, patent number ZL 2009 0039640.8. Thermogravimetric analysis (TG, TGA) is to observe the change of sample quality with temperature or time during the process of heating, constant temperature or cooling, and the purpose is to study the thermal stability and composition of materials. It is widely used in research and development, process optimization and quality monitoring in various fields such as plastics, rubber, coatings, pharmaceuticals, catalysts, inorganic materials, metal materials and composite materials.

### 主要特点: The main features

- 1: Advanced control system. The temperature can be controlled quickly and stably;
- 2: After the sample is installed in place, the insulation door will be automatically closed;
- 3: The software has built-in test records, data processing and report formats, and automatically issues actual reports;
- 4: Built-in high temperature platinum sensor.

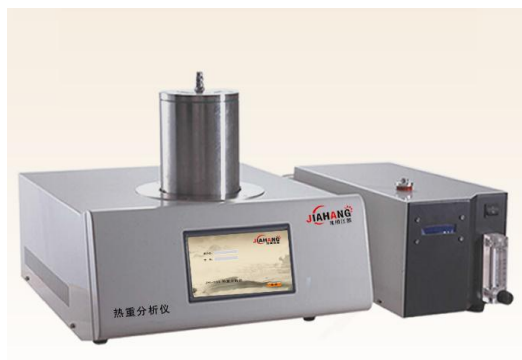


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**主要技术指标： Technical parameters**

Model	YK-TGA350	YK-TGA550
temperature range	Room temperature~1100℃	Room temperature~1400℃
Temperature resolution	0.1℃	0.1℃
Temperature fluctuation	±0.1℃	±0.1℃
Heating rate	1~80℃/min	1~80℃/min
Temperature control method	Heating, constant temperature, cooling	Heating, constant temperature, cooling
Cooling time	15min (1000℃...100℃)	15min (1000℃...100℃)
Balance measuring range	1mg~2g, can be expanded to 30g	1mg~2g, can be expanded to 30g
Resolution	0.1μg	0.1μg
Constant temperature time	0~300min arbitrarily set	0~300min arbitrarily set
Display method	Chinese characters large-screen LCD display	Chinese characters large-screen LCD display
atmosphere	Inert, oxidizing, reducing, static, dynamic	Inert, oxidizing, reducing, static, dynamic
Atmosphere device	Built-in gas flow meter, including two-way gas switching and flow rate control	Built-in gas flow meter, including two-way gas switching and flow rate control
software	Intelligent software can automatically record TG curve for data processing and print experimental reports	Intelligent software can automatically record TG curve for data processing and print experimental reports
Data interface	RSS-232 interface, dedicated software (free software upgrades from time to time)	RSS-232 interface, dedicated software (free software upgrades from time to time)
power supply	AC220V 50Hz	AC220V 50Hz

## Synchronous Thermal Analysis Equipment (STA150/350)



### 基本介绍: Brief Introduction

Synchronous thermal analysis equipment is combines thermogravimetric analysis TG with differential thermal analysis DTA or differential scanning calorimetry DSC. The same sample can be used to obtain TG and DTA or DSC information simultaneously in the same measurement.

### 使用领域: Fields of use

Synchronous thermal analysis equipment is combines thermogravimetric analysis TG with differential thermal analysis DTA or differential scanning calorimetry DSC. The same sample can be used to obtain TG and DTA or DSC information simultaneously in the same measurement.

### 主要特点: The main features

- 1: Advanced control system. The temperature can be controlled quickly and stably;
- 2: After the sample is installed in place, the insulation door will be automatically closed;
- 3: The software has built-in test records, data processing and report formats, and automatically issues actual reports;
- 4: Built-in high temperature platinum sensor.

### 主要技术指标: Technical parameters

Model	YK-STA150	YK-STA350
temperature range	Room temperature~1100℃	Room temperature~1400℃
Temperature resolution	0.1℃	0.1℃
Temperature fluctuation	±0.1℃	±0.1℃
Heating rate	1~80℃/min	1~80℃/min
Temperature control method	Heating, constant temperature, cooling	Heating, constant temperature, cooling
Cooling time:	15min (1000℃...100℃)	15min (1000℃...100℃)
Balance measuring range	1mg~2g, can be expanded to 30g	1mg~2g, can be expanded to 30g
Resolution	1μg	1μg
Constant temperature time	0~300min arbitrarily set	0~300min arbitrarily set
Display method	24bit color, 7-inch LCD touch screen display	24bit color, 7-inch LCD touch screen display
atmosphere	Inert, oxidizing, reducing, static, dynamic	Inert, oxidizing, reducing, static, dynamic
Atmosphere device	Built-in gas flow meter, including two-way gas switching and flow rate control	Built-in gas flow meter, including two-way gas switching and flow rate control
software	Intelligent software can automatically record TG curve for data processing and	Intelligent software can automatically record TG curve for data processing and





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	print experimental reports	print experimental reports
Data interface	Standard USB interface	Standard USB interface
power supply	AC220V 50Hz	AC220V 50Hz