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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!



## 1. Melting point Apparatus

### 1.1 Smart Series - Automatic melting point Apparatus



#### Brief Introduction

Melting point meter is an instrument for measuring the melting point of a substance. The melting point of a substance refers to the temperature at which the substance changes from solid to liquid. In the field of organic chemistry, the determination of the melting point is the basic means to identify the nature of a substance, and also one of the important methods for the determination of purity.

Shanghai Yuke automatic melting point instrument series perfectly combine high-precision temperature control technology and high-definition video camera technology, not only to provide users with accurate, stable and reliable test results, but also to bring users efficient and convenient test experience. High-definition video can easily and clearly see the whole process of sample melting, automatic detection real-time Tupu display, convenient for users to accurately measure the sample melting point and melt distance.

#### Fields of use

1. Melting point meter plays an important role in chemical industry and medical research. It is a necessary instrument for the production of drugs, spices, dyes and other organic crystal substances. Corresponding enterprises (pharmaceutical related enterprises, chemical enterprises)
2. Universities and Research Institutes (chemical and pharmaceutical related schools and research institutes)
3. Government supervision departments (Entry-Exit Inspection and Quarantine Food and Drug Administration, Grain Administration, etc.)

#### The main features

1. HD recording function, easy to observe and look back.
2. Large temperature range from room temperature to 420°C.
3. The heating rate is adjustable from 0.1°C/Min to 20°C/Min without pole.
4. Enlarge HD color screen window.
5. Four samples can be determined simultaneously.
6. Printer can be connected to realize real-time data printing and historical data printing.
7. Comply with Pharmacopoeia test methods, including European Pharmacopoeia, United States Pharmacopoeia and Chinese Pharmacopoeia.
8. Compliance with 21CFR Part 1, audit trail, pharmacopoeia and electronic signature.



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### Technical parameters

Model	Smart-M30	Smart-M50	Smart-M70	Smart-M80	Smart-M90	Smart-M130
Temperature range	RT -360℃	RT -420℃	RT -360℃	RT -400℃	RT -420℃	RT -420℃
Detection method	Semi-automatic	Semi-automatic	Automatic with manual	Automatic with manual	Automatic with manual	Automatic with manual
Processing capacity	4 pcs per batch					
Test mode	Melting point	Melting point	Melting point	Melting point	Melting point	Melting / boiling / cloud / slip point
Temperature resolution	0.01℃					
Heating rate	0.1℃--20℃ (200 gears, steplessly adjustable)					
Temperature control mode	PID precise temperature control, fully enclosed design of the furnace body					
Accuracy	±0.3℃ (<250℃) ±0.5℃ (>250℃)	±0.2℃ (<250℃) ±0.4℃ (>250℃)	±0.3℃ (<250℃) ±0.5℃ (>250℃)	±0.2℃ (<250℃) ±0.4℃ (>250℃)	±0.2℃ (<250℃) ±0.4℃ (>250℃)	±0.2℃ (<250℃) ±0.4℃ (>250℃)
Repeatability	Melting point repeatability was ±0.1℃ at 0.1℃/Min					
Magnification	9 times					
Display method	10.4 inch FTF color touch color screen					
Data storage	32G	64G	32G	64G	128G	128G
Graph save	200 units	400 units	200 units	400 units	600 units	600 units
Map	-	-	Any zoom	Any zoom	Any zoom	Any zoom
User management	YES / Level 4 authority					
Audit trails	YES					
21 CFR part 11	YES					
Custom method libraries	YES					
Export file verification MD5	YES					
Printing	WIFI , serial port					
Export format	PDF & EXCEL					
Data interface	USB ,RS232, SD,Wi-Fi、 RJ45、 U disk					
Small capillary size	OD: Φ1.3mm ID:Φ1.1mm					
Large capillary size	-	-	-	-	-	OD: Φ4.2mm ID:Φ3.8mm
Packing Size	430*320*370mm					
Power supply	110-230V,50/60Hz,120W					
Gross Weight	6.5kg					

## 1.2 YK Series - Melting point Apparatus



Model	YK30	YK40	YK50	YK60	YK70	YK80	YK90
Temperature range	RT -350°C	RT -350°C	RT -400°C	RT -400°C	RT -350°C	RT -400°C	RT -420°C
Detection method	Manual	Automatic & Manual	Manual	Automatic & Manual	Automatic & Manual	Automatic & Manual	Automatic & Manual
Processing capacity	4 pcs per batch						
Test mode	Melting point						
Temperature resolution	0.1°C						
Heating rate	0.1°C--20°C , (200 gears, steplessly adjustable)						
Accuracy	±0.3°C (<250°C) ±0.5°C (>250°C)						
Repeatability	Melting point repeatability was ±0.1°C at 0.1°C/Min						
Exploration mode	NO	NO	NO	YES	NO	YES	YES
Video function	NO	NO	video, graph	NO	video, graph	video, graph	video, graph
Video playback	NO	NO	YES	NO	NO	YES	YES
Magnification	7 times						
Display method	TFT HD color screen						
Data storage	8G	-	8G	-	8G	16G	32G
Graph save	-	10 units	-	10 units	10 units	20 units	80 units
User management	NO	YES, 4units	YES, 8 units	YES, 8 units	YES, 8 units	YES, 10 units	YES, 20 units
Data saving	200 units	200 units	400 units	400 units	400 units	600 units	1000 units
Experimental scheme	-	-	-	-	-	40 units	100 units
<b>21 CFR part 11</b>	<b>NO</b>						
Data interface	USB , RS232, RJ45						
Capillary size	OD: Φ1.4mm ID: Φ1.2mm				OD: Φ1.4mm ID: Φ1.0mm		
Packing Size	430*320*370mm						
Power supply	110-230V,50/60Hz,120W						
Gross Weight	6.5 kg						

### 1.3 Smart-MY series & YKY Series - Grease/Oil melting point apparatus (for block and paste)



#### Brief Introduction

Automatic grease melting point meter can quickly and accurately determine the melting point of various block and paste samples. 3 samples can be measured simultaneously. Through the digital optical sensor, the whole experiment process is digitized and transmitted to the computer, the intelligent software can automatically judge the melting point of oil, eliminate the subjective error of judging the melting point, and reduce the labor intensity of the experimenter. The instrument has its own heating system, which can ensure a stable heating rate. The platinum temperature sensor has the advantages of fast response and high accuracy compared with the traditional method of using mercury thermometer.

#### Stander

In line with SNT0801.5-2015, GB/T24892-2010, GBT127662008 standards

#### The main features

- 1: With refrigeration system, 3 samples can be processed at a time;
- 2: One-key automatic detection function, effectively avoid human error;
- 3: PID precise temperature control;
- 4: Can record and playback the experiment process, not missing every detail;
- 5: In full compliance with the national standard and ISO oil melting point determination method

#### Technical parameters

Model	YKY30	YKY50	YKY80	YKY90
Temperature display range	0-350℃	0-100℃	0-400℃	0-100℃
Temperature control range	RT-350℃	(RT -20)-100℃	RT-400℃	(RT -20)-100℃
Temperature resolution	0.1℃			
Heating gradient	0.1℃-20℃/ minutes	0.1℃-10℃/ minutes	0.1℃-20℃/ minutes	0.1℃-10℃/ minutes
Cooling rate	Wind cooling	Semiconductor cooling	Wind cooling	Semiconductor cooling
Temperature accuracy	±0.3℃ (<100℃) ±0.5℃ (>100℃)	±0.3℃ (<100℃)	±0.2℃ (<100℃) ±0.4℃ (>100℃)	±0.2℃ (<100℃)
Repeatability	Melting point repeatability was ±0.1℃ at 0.1℃/Min			



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Detection method	Manual	Semi-automatic	Fully automatic (compatible with manual)	Fully automatic (compatible with manual)
Video function	Photo	Photo and video	Photo and video	Photo and video
Data preservation	200	400	600	1000
Storage	16G	32G	16G	32G
Display method	TFT high-definition true color screen			
Computer interface	USB, RS232, network port			
Capillary	OD:1.3mm,ID:1.1mm,Length:100mm (Single and double opening) OD:4.0mm,ID:3.8mm,Length:800mm (Large capillary)			
Processing capacity	3 pcs per batch			
Number of user management	-	8	10	200
Video playback	-	YES	YES	YES
User Management	-	YES	YES	YES
Power supply	AC 220V 50/60Hz 120W			
Packing size	430*320*370mm			
Gross weight	6.5kg			

**Mark:**

1. The Specification data are same for Smart-MY series with YKY series .
2. Smart-MY series comply with 21 CFR PART 11 but YKY series Not .
3. Smart-MY series with 10.4 inch FTF color touch color screen, YKY series use TFT HD color screen.

## 1.4 YKX Series - Micro Melting point Apparatus



Model	YKX-4 Plus	YKX-4
Temperature Range	Room Temperature to 400°C	Room Temperature to 350°C
Cooling Function	Built-in cooling fan	NO
Resolution	0.1°C	
Temperature Increase Speed	0.1°C-10°C (100 temperature point infinitely adjustable)	
Temperature Control Method	PID control temperature, fully closed design of furnace body	
Accuracy	±0.4°C (<250°C) , ±0.7°C (>250°C)	
Repeatability	When 0.1°C/Min, repeatability ±0.3°C	
Display	FTF High Solution Color Touch Screen	
Output	RS232 interface	
Sample Tube	external diameter $\phi$ 1.6mm, internal diameter : $\phi$ 1.2mm	
Voltage	100V-240V 50HZ-60HZ	
Power	100W	
Size	250mm*250mm*150mm	
Weight	1.2kg	



Model	YKX-5 Plus	YKX-5
Temperature Range	Room Temperature to 400°C	Room Temperature to 350°C
Cooling Function	Built-in cooling fan	No
PC Software	Include PC software	
Magnification	support digital 10-200 times magnification	
Resolution	0.1°C	
Temperature Increase Speed	0.1°C-10°C (100 temperature point infinitely adjustable)	
Temperature Control Method	PID control temperature, fully closed design of furnace body	
Accuracy	±0.4°C (<250°C) , ±0.7°C (>250°C)	
Repeatability	When 0.1°C/Min, repeatability ±0.3°C	
Display	FTF High Solution Color Touch Screen	
Output	RS232 interface	
Sample Tube	external diameter φ1.6mm, internal diameter : φ1.2mm	
Voltage	100V-240V 50HZ-60HZ	
Power	100W	
Size	250mm*250mm*150mm	
Weight	2.3kg	