



## Lifting Furnace



Furnace and heating process equipment  
widely using at

Institutions of higher learning  
scientific research institutions  
experimental laboratory

industrial and mining enterprises

The equipment designed for pyrolysis, melting, analysis and production ceramics, metallurgy, electronics, machinery, chemical, glass, refractories, for develop new material, special materials, construction materials, the equipment is suitable for institutions of higher learning and laboratory of scientific research institute and industrial and mining enterprises.

**[www.gwdl.net](http://www.gwdl.net)**

 Made In China



### **China Made**

Guoju with 200 employees have been developing and producing industrial furnaces for many different applications for over 10 years. As a furnace manufacturer, Guoju offers the widest and deepest range of furnaces. Around 1000 satisfied customers in more than 34 Provinces offer proof of our commitment to excellent design, quality and cost efficiency. Short delivery times are ensured due to our complete inhouse production and our wide variety of standard furnaces.

### **Excellent Quality、High Reputation**

product has the advantages of automatic control, fast heat, energy saving, simple operation, programmable microcomputer control, automatic temperature control, temperature control precision and high precision of constant temperature, the furnace shell temperature is close to indoor temperature etc., we got excellent feedback from our customers! After years of development the company has a maturity high temperature kiln production line, and also has a Middle or high scientific research team, it is a specializes in the research and production and marketing integrated private enterprise. Our company based on the principle of seeking truth from facts innovation first and user foremost, keep introduced advanced technology and modern management experience from domestic and international, and also made the rigorous process standard and strict quality control system and testing method.

### **Sales and Service Network - Close to you**

All type furnace and kiln have the high level of automation, are of domestic leading position, sold to 20 provinces, cities, autonomous regions, special economic regions, state major university, state major laboratory, institute of Chinese academy of sciences, Chinese institutions of higher learning, which has been exported to North America, Russia, Philippines, Japan and other countries. Also have the high reputation in the same industry.

### **Customer Service and Spare Parts**

The staff of our company's customer service department will be eager to answer all the questions which you ask. Due to our complete inhouse production, we can dispatch most spare parts from stock over night or produce with short delivery time.

## High Temperature Miniature Lift Experimental Furnace (GWL-TSC)



### **GWL Series 1200°C-1800°C High Temperature Miniature Lift Experimental Furnace**

The equipment designed for pyrolysis, melting, analysis and production ceramics, metallurgy, electronics, machinery, chemical, glass, refractories, for develop new material, special materials, construction materials, the equipment is suitable for institutions of higher learning and laboratory of scientific research institute and industrial and mining enterprises.

The control panel equipped with the intelligent adjustment device, power control switch, main working/stop button, voltmeter, ammeter, Computer interface, Observe port / Air inlet port, for convenience to observe the furnace working status, the product using reliable integrated circuit, excellent working environment, anti-interference, the highest temperature of furnace shell temperature is less than 45 can greatly improve the working environment, micro computer program control, programmable setting temperature rise curve, Fully automatic temperature rise / cooling, Temperature control parameters and programs can be modified during operation, which is flexible, convenient and simple in operation.

Temperature Control Accuracy:  $\pm 1^{\circ}\text{C}$ , Temperature Constant Accuracy:  $\pm 1^{\circ}\text{C}$ . Fast Temperature rise rate, Maximum heating rate  $\leq 30^{\circ}\text{C}/\text{min}$ . Furnace hearth materials made up by vacuum forming high purity alumina light materials (Will be changing due to the temperature required), High temperature for use, Less heat storage amount, Tolerance the extremely heating and cold, no crack, No dregs, Excellent thermal insulation performance (the energy saving effect is over 60% of the traditional furnace). Reasonable structure, Double layer furnace cover, Air cooling, Greatly shortening the experimental period.



Model	GWL-TSC				
Working Temperature	1200°C	1400°C	1600°C	1700°C	1800°C
Maximum Temperature	1250°C	1450°C	1650°C	1750°C	1820°C
Heating Element	Silicon Carbide Rod		Silicon Molybdenum Rod		
Diameter Of Furnace Hearth	100 MM   120 MM   250 MM				
Height Of Furnace Hearth	100 MM   120 MM   300 MM				
Loading Platform Lift Method	Screw Mandrel Lift (Lifting Speed Adjustable)				
Temperature Rise Rate	Temperature Rise Rate Can Be Modify ( 30°C/min   1°C/h ) , Company Suggest 10-20°C/min.				
Refractories Of Loading Platform	Import High Temperature light heat insulation material				
Loading platform capacity	1-2Kg				
Rated Voltage	220V/380V				
Temperature Uniformity	±1°C				
Temperature Control Accuracy	±1°C				
Standard Accessories	Heating Elements, Specification Certificate, Heat Insulation Brick, Crucible Pliers, High Temperature Gloves.				
<b>Characteristic:</b>					
<b>Open Model: Bottom Open;</b>					
<ol style="list-style-type: none"> <li>1. Temperature accuracy: ±1°C ; Constant temperature: ±1°C(Base on Heating zone size ) 。</li> <li>2. Simplicity for operation, programmable, PID automatic modify, automatic temperature rise, automatic temperature retaining , automatic cooling, unattended operation</li> <li>3. Cooling structure: Double Layer Furnace Shell, Air Cooling.</li> <li>4. Furnace surface temperature approach the indoor temperature.</li> <li>5. double layer loop protection. (over temperature protection, over pressure protection, over current protection, thermocouple protection, Power supply protection and so on)</li> <li>6. Importing refractory, excellent temperature retaining effect, high temperature resistance, Tolerance the extreme heat and cold</li> <li>7. Furnace hearth materials: 1200°C: High Purity Alumina Fiber Board; 1400°C: High purity alumina (Contain zirconium) fiberboard; 1600°C: Import High Purity Alumina Fiber Board; 1700°C-1800°C: High Purity alumina polymer fiber board.</li> </ol>					
Furnace Hearth Can Be Customized, More Details Please Contact Us					

## High Temperature Lift Experimental Furnace (GWL-SL)



### GWL Series 1200°C-1800°C High Temperature Lift Experimental Furnace

The equipment designed for pyrolysis, melting, analysis and production ceramics, metallurgy, electronics, machinery, chemical, glass, refractories, for develop new material, special materials, construction materials, the equipment is suitable for institutions of higher learning and laboratory of scientific research institute and industrial and mining enterprises.

The control panel equipped with the intelligent adjustment device, power control switch, main working/stop button, voltmeter, ammeter, Computer interface, Observe port / Air inlet port, for convenience to observe the furnace working status, the product using reliable integrated circuit, excellent working environment, anti-interference, the highest temperature of furnace shell temperature is less than 45 can greatly improve the working environment, micro computer program control, programmable setting temperature rise curve, Fully automatic temperature rise / cooling, Temperature control parameters and programs can be modified during operation, which is flexible, convenient and simple in operation.

Temperature Control Accuracy:  $\pm 1^{\circ}\text{C}$ , Temperature Constant Accuracy:  $\pm 1^{\circ}\text{C}$ . Fast Temperature rise rate, Maximum heating rate  $\leq 30^{\circ}\text{C}/\text{min}$ . Furnace hearth materials made up by vacuum forming high purity alumina light materials (Will be changing due to the temperature required), High temperature for use, Less heat storage amount, Tolerance the extremely heating and cold, no crack, No dregs, Excellent thermal insulation performance (the energy saving effect is over 60% of the traditional furnace). Reasonable structure, Double layer furnace cover, Air cooling, Greatly shortening the experimental period.



Model	GWL-SL				
Working Temperature	1200°C	1400°C	1600°C	1700°C	1800°C
Maximum Temperature	1250°C	1450°C	1650°C	1750°C	1820°C
Heating Element	Silicon Carbide Rod		Silicon molybdenum rod		
Diameter Of Furnace Hearth	200 MM   250 MM   300 MM  500 MM				
Height Of Furnace Hearth	300 MM  500 MM   800 MM				
Loading Platform Lift Method	Screw Mandrel Lift (Lifting Speed Adjustable 5s to 1min)				
Temperature Rise Rate	Temperature Rise Rate Can Be Modify ( 30°C/min   1°C/h ) , Company Suggest 10-20°C/min.				
Refractories Of Loading Platform	Import High Temperature light heat insulation material				
Loading platform capacity	1-10 Ton				
Rated Voltage	220V/380V				
Temperature Uniformity	±1°C				
Temperature Control Accuracy	±1°C				
Standard Accessories	Heating Elements, Specification Certificate, Heat Insulation Brick, Crucible Pliers, High Temperature Gloves.				

**Characteristic:****Open Model: Bottom Open;**

1. Temperature accuracy:  $\pm 1^{\circ}\text{C}$  ; Constant temperature:  $\pm 1^{\circ}\text{C}$ (Base on Heating zone size ) 。
2. Simplicity for operation, programmable, PID automatic modify, automatic temperature rise, automatic temperature retaining , automatic cooling, unattended operation
3. Cooling structure: Double Layer Furnace Shell, Air Cooling.
4. Furnace surface temperature approach the indoor temperature.
5. double layer loop protection. (over temperature protection, over pressure protection, over current protection, thermocouple protection, Power supply protection and so on)
6. Importing refractory, excellent temperature retaining effect, high temperature resistance, Tolerance the extreme heat and cold
7. Furnace hearth materials: 1200°C: High Purity Alumina Fiber Board; 1400°C: High purity alumina (Contain zirconium) fiberboard; 1600°C: Import High Purity Alumina Fiber Board; 1700°C-1800°C: High Purity alumina polymer fiber board.

Furnace Hearth Can Be Customized, More Details Please Contact Us



## High Temperature Experimental Lift Furnace (GWL-TS-1)



### GWL Series 1200°C-1800°C High Temperature Experimental Lift Furnace

The equipment designed for pyrolysis, melting, analysis and production ceramics, metallurgy, electronics, machinery, chemical, glass, refractories, for develop new material, special materials, construction materials, the equipment is suitable for institutions of higher learning and laboratory of scientific research institute and industrial and mining enterprises.

The control panel equipped with the intelligent adjustment device, power control switch, main working/stop button, voltmeter, ammeter, Computer interface, Observe port / Air inlet port, for convenience to observe the furnace working status, the product using reliable integrated circuit, excellent working environment, anti-interference, the highest temperature of furnace shell temperature is less than 45 can greatly improve the working environment, micro computer program control, programmable setting temperature rise curve, Fully automatic temperature rise / cooling, Temperature control parameters and programs can be modified during operation, which is flexible, convenient and simple in operation.

Temperature Control Accuracy:  $\pm 1^{\circ}\text{C}$ , Temperature Constant Accuracy:  $\pm 1^{\circ}\text{C}$ . Fast Temperature rise rate, Maximum heating rate  $\leq 30^{\circ}\text{C}/\text{min}$ . Furnace hearth materials made up by vacuum forming high purity alumina light materials (Will be changing due to the temperature required), High temperature for use, Less heat storage amount, Tolerance the extremely heating and cold, no crack, No dregs, Excellent thermal insulation performance (the energy saving effect is over 60% of the traditional furnace). Reasonable structure, Double layer furnace cover, Air cooling, Greatly shortening the experimental period.



Model	GWL-TS-1				
Working Temperature	1200°C	1400°C	1600°C	1700°C	1800°C
Maximum Temperature	1250°C	1450°C	1650°C	1750°C	1820°C
Heating Element	Silicon Carbide Rod		Silicon molybdenum rod		
Dimension Of Furnace Hearth	200*200*200 MM   300*300*300 MM   500*500*500 MM				
Loading Platform Lift Method	Manual hydraulic				
Temperature Rise Rate	Temperature Rise Rate Can Be Modify ( 30°C/min   1°C/h ) , Company Suggest 10-20°C/min.				
Refractories Of Loading Platform	Import High Temperature light heat insulation material				
Loading platform capacity	300-500 Kg				
Rated Voltage	380V				
Temperature Uniformity	±1°C				
Temperature Control Accuracy	±1°C				
Standard Accessories	Heating Elements, Specification Certificate, Heat Insulation Brick, Crucible Pliers, High Temperature Gloves.				
<p><b>Characteristic:</b></p> <p><b>Open Model: Bottom Open;</b></p> <ol style="list-style-type: none"> <li>Temperature accuracy: ±1°C ; Constant temperature: ±1°C(Base on Heating zone size ) 。</li> <li>Simplicity for operation, programmable, PID automatic modify, automatic temperature rise, automatic temperature retaining , automatic cooling, unattended operation</li> <li>Cooling structure: Double Layer Furnace Shell, Air Cooling.</li> <li>Furnace surface temperature approach the indoor temperature.</li> <li>double layer loop protection. (over temperature protection, over pressure protection, over current protection, thermocouple protection, Power supply protection and so on)</li> <li>Importing refractory, excellent temperature retaining effect, high temperature resistance, Tolerance the extreme heat and cold</li> <li>Furnace hearth materials: 1200°C: High Purity Alumina Fiber Board; 1400°C: High purity alumina (Contain zirconium) fiberboard; 1600°C: Import High Purity Alumina Fiber Board; 1700°C-1800°C: High Purity alumina polymer fiber board.</li> </ol>					
Furnace Hearth Can Be Customized, More Details Please Contact Us					



## High Temperature Pusher Lift Furnace (GWL-TS-2)



### GWL Series 1200°C-1800°C High Temperature Pusher Lift Furnace

The equipment designed for pyrolysis, melting, analysis and production ceramics, metallurgy, electronics, machinery, chemical, glass, refractories, for develop new material, special materials, construction materials, the equipment is suitable for institutions of higher learning and laboratory of scientific research institute and industrial and mining enterprises.

The control panel equipped with the intelligent adjustment device, power control switch, main working/stop button, voltmeter, ammeter, Computer interface, Observe port / Air inlet port, for convenience to observe the furnace working status, the product using reliable integrated circuit, excellent working environment, anti-interference, the highest temperature of furnace shell temperature is less than 45 can greatly improve the working environment, micro computer program control, programmable setting temperature rise curve, Fully automatic temperature rise / cooling, Temperature control parameters and programs can be modified during operation, which is flexible, convenient and simple in operation.

Temperature Control Accuracy:  $\pm 1^{\circ}\text{C}$ , Temperature Constant Accuracy:  $\pm 1^{\circ}\text{C}$ . Fast Temperature rise rate, Maximum heating rate  $\leq 30^{\circ}\text{C}/\text{min}$ . Furnace hearth materials made up by vacuum forming high purity alumina light materials (Will be changing due to the temperature required), High temperature for use, Less heat storage amount, Tolerance the extremely heating and cold, no crack, No dregs, Excellent thermal insulation performance (the energy saving effect is over 60% of the traditional furnace). Reasonable structure, Double layer furnace cover, Air cooling, Greatly shortening the experimental period.



Model	GWL-TS-2				
Working Temperature	1200°C	1400°C	1600°C	1700°C	1800°C
Maximum Temperature	1250°C	1450°C	1650°C	1750°C	1820°C
Heating Element	Silicon Carbide Rod		Silicon Molybdenum Rod		
Dimension Of Furnace Hearth	200*200*200 MM   300*300*300 MM   500*500*500 MM				
Loading Platform Lift Method	Manual hydraulic				
Loading Platform Passes In And Out	Manual or Electric (Can be Customized)				
Temperature Rise Rate	Temperature Rise Rate Can Be Modify (30°C/min   1°C/h) , Company Suggest 10-20°C/min.				
Refractories Of Loading Platform	Import High Temperature light heat insulation material				
Loading platform capacity	300-500 Kg				
Rated Voltage	380V				
Temperature Uniformity	±1°C				
Temperature Control Accuracy	±1°C				
Standard Accessories	Heating Elements, Specification Certificate, Heat Insulation Brick, Crucible Pliers, High Temperature Gloves.				
<b>Characteristic:</b> <b>Open Model: Bottom Open;</b> 1. Temperature accuracy: ±1°C ; Constant temperature: ±1°C(Base on Heating zone size) 。 2. Simplicity for operation, programmable, PID automatic modify, automatic temperature rise, automatic temperature retaining , automatic cooling, unattended operation 3. Cooling structure: Double Layer Furnace Shell, Air Cooling. 4. Furnace surface temperature approach the indoor temperature. 5. double layer loop protection. (over temperature protection, over pressure protection, over current protection, thermocouple protection, Power supply protection and so on) 6. Importing refractory, excellent temperature retaining effect, high temperature resistance, Tolerance the extreme heat and cold 7. Furnace hearth materials: 1200°C: High Purity Alumina Fiber Board; 1400°C: High purity alumina (Contain zirconium) fiberboard; 1600°C: Import High Purity Alumina Fiber Board; 1700°C-1800°C: High Purity alumina polymer fiber board.  Furnace Hearth Can Be Customized, More Details Please Contact Us					

## High Temperature Pusher Lift Furnace (GWL-FSS)



### GWL Series 1200°C-1800°C High Temperature Pusher Lift Furnace

The equipment designed for pyrolysis, melting, analysis and production ceramics, metallurgy, electronics, machinery, chemical, glass, refractories, for develop new material, special materials, construction materials, the equipment is suitable for institutions of higher learning and laboratory of scientific research institute and industrial and mining enterprises.

The control panel equipped with the intelligent adjustment device, power control switch, main working/stop button, voltmeter, ammeter, Computer interface, Observe port / Air inlet port, for convenience to observe the furnace working status, the product using reliable integrated circuit, excellent working environment, anti-interference, the highest temperature of furnace shell temperature is less than 45 can greatly improve the working environment, micro computer program control, programmable setting temperature rise curve, Fully automatic temperature rise / cooling, Temperature control parameters and programs can be modified during operation, which is flexible, convenient and simple in operation.

Temperature Control Accuracy:  $\pm 1^{\circ}\text{C}$ , Temperature Constant Accuracy:  $\pm 1^{\circ}\text{C}$ . Fast Temperature rise rate, Maximum heating rate  $\leq 30^{\circ}\text{C}/\text{min}$ . Furnace hearth materials made up by vacuum forming high purity alumina light materials (Will be changing due to the temperature required), High temperature for use, Less heat storage amount, Tolerance the extremely heating and cold, no crack, No dregs, Excellent thermal insulation performance (the energy saving effect is over 60% of the traditional furnace). Reasonable structure, Double layer furnace cover, Air cooling, Greatly shortening the experimental period.



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Model	GWL-FSS				
Working Temperature	1200°C	1400°C	1600°C	1700°C	1800°C
Maximum Temperature	1250°C	1450°C	1650°C	1750°C	1820°C
Heating Element	Silicon Carbide Rod		Silicon molybdenum rod		
Dimension Of Furnace Hearth	800*500*500 MM   1200*600*600 MM   2000*700*800 MM				
Loading Platform Lift Method	Screw Mandrel				
Temperature Rise Rate	Temperature Rise Rate Can Be Modify (30°C/min   1°C/h) , Company Suggest 10-20°C/min.				
Refractories Of Loading Platform	Import High Temperature light heat insulation material				
Loading platform capacity	300-500 Kg				
Rated Voltage	380V				
Temperature Uniformity	±1°C				
Temperature Control Accuracy	±1°C				
Standard Accessories	Heating Elements, Specification Certificate, Heat Insulation Brick, Crucible Pliers, High Temperature Gloves.				
<b>Characteristic:</b>					
<b>Open Model: Bottom Open;</b>					
<ol style="list-style-type: none"> <li>1. Temperature accuracy: ±1°C ; Constant temperature: ±1°C(Base on Heating zone size ) 。</li> <li>2. Simplicity for operation, programmable, PID automatic modify, automatic temperature rise, automatic temperature retaining , automatic cooling, unattended operation</li> <li>3. Cooling structure: Double Layer Furnace Shell, Air Cooling.</li> <li>4. Furnace surface temperature approach the indoor temperature.</li> <li>5. double layer loop protection. (over temperature protection, over pressure protection, over current protection, thermocouple protection, Power supply protection and so on)</li> <li>6. Importing refractory, excellent temperature retaining effect, high temperature resistance, Tolerance the extreme heat and cold</li> <li>7. Furnace hearth materials: 1200°C: High Purity Alumina Fiber Board; 1400°C: High purity alumina (Contain zirconium) fiberboard; 1600°C: Import High Purity Alumina Fiber Board; 1700°C-1800°C: High Purity alumina polymer fiber board.</li> </ol>					
Furnace Hearth Can Be Customized, More Details Please Contact Us					

## Large Scale Screw Mandrel Lift Furnace With Touch Screen Control System (GWL-SS)



### GWL Series 1200°C-1800°C High Temperature Large Scale Screw Mandrel Lift Furnace With Touch Screen Control System

The equipment designed for pyrolysis, melting, analysis and production ceramics, metallurgy, electronics, machinery, chemical, glass, refractories, for develop new material, special materials, construction materials, the equipment is suitable for institutions of higher learning and laboratory of scientific research institute and industrial and mining enterprises.

The control panel equipped with the intelligent adjustment device, power control switch, main working/stop button, voltmeter, ammeter, Computer interface, Observe port / Air inlet port, for convenience to observe the furnace working status, the product using reliable integrated circuit, excellent working environment, anti-interference, the highest temperature of furnace shell temperature is less than 45 can greatly improve the working environment, micro computer program control, programmable setting temperature rise curve, Fully automatic temperature rise / cooling, Temperature control parameters and programs can be modified during operation, which is flexible, convenient and simple in operation.

Temperature Control Accuracy:  $\pm 1^{\circ}\text{C}$ , Temperature Constant Accuracy:  $\pm 1^{\circ}\text{C}$ . Fast Temperature rise rate, Maximum heating rate  $\leq 30^{\circ}\text{C}/\text{min}$ . Furnace hearth materials made up by vacuum forming high purity alumina light materials (Will be changing due to the temperature required), High temperature for use, Less heat storage amount, Tolerance the extremely heating and cold, no crack, No dregs, Excellent thermal insulation performance (the energy saving effect is over 60% of the traditional furnace). Reasonable structure, Double layer furnace cover, Air cooling, Greatly shortening the experimental period.



Model	GWL-SS				
Working Temperature	1200°C	1400°C	1600°C	1700°C	1800°C
Maximum Temperature	1250°C	1450°C	1650°C	1750°C	1820°C
Heating Element	Silicon Carbide Rod		Silicon molybdenum rod		
Dimension Of Furnace Hearth	500*500*500 MM  800*500*500 MM   800*800*800 MM   1200*750*600 MM  1300*600*600 MM				
Loading Platform Lift Method	Screw Mandrel				
Loading platform passes in and out	Electric screw mechanical Drive (Pass in and out speed adjustable)				
Quantity Of Loading Platform	1 to 3 (Can Be Customized)				
Temperature Rise Rate	Temperature Rise Rate Can Be Modify ( 30°C/min   1°C/h ) , Company Suggest 10-20°C/min.				
Refractories Of Loading Platform	Import High Temperature light heat insulation material				
Loading platform capacity	1000 Kg( Can be customized)				
Rated Voltage	380V				
Temperature Uniformity	±1°C				
Temperature Control Accuracy	±1°C				
Standard Accessories	Heating Elements, Specification Certificate, Heat Insulation Brick, Crucible Pliers, High Temperature Gloves.				

**Characteristic:****Open Model: Bottom Open;**

1. Temperature accuracy:  $\pm 1^{\circ}\text{C}$  ; Constant temperature:  $\pm 1^{\circ}\text{C}$ (Base on Heating zone size ) 。
2. Simplicity for operation, programmable. PID automatic modify, automatic temperature rise, automatic temperature retaining , automatic cooling, unattended operation
3. Cooling structure: Double Layer Furnace Shell, Air Cooling.
4. Furnace surface temperature approach the indoor temperature.
5. double layer loop protection. (over temperature protection, over pressure protection, over current protection, thermocouple protection, Power supply protection and so on)
6. Importing refractory, excellent temperature retaining effect, high temperature resistance, Tolerance the extreme heat and cold
7. Furnace hearth materials: 1200°C: High Purity Alumina Fiber Board; 1400°C: High purity alumina (Contain zirconium) fiberboard; 1600°C: Import High Purity Alumina Fiber Board; 1700°C-1800°C: High Purity alumina polymer fiber board.



Touch screen control	
Screen Dimension	7inch; 10inch; 14inch TFT True Color
Appearance Dimension	206W*156H*50D(mm) , 280W*200H*50D(mm)
Display Resolution	800*480
Background Light	LED
Power Rating	5W
Weight	1KG
Operation Language	Chinese/English (Switch freely)
Screen Display And Operation	Dashboard, Photo Column, Historical Trend, Data Report, Alarm Information, Data Export, Process Flow, System Management, etc.
Control Objective	Temperature, Pressure, Flux And Liquid Level and so on
Temperature Control	Touch Screen & High Precision Integrated Module
Start Temperature Rise	Touch operation
Pause Temperature Rise	
Stop Temperature Rise	
Loading Platform Passed In And Out	
Loading Platform Raise And Fall	
Start、Pause、Stop、Program	
Flow Chart	Base on furnace structure or process flow
Temperature Curve Formulation	Touch to operation, 30 segments of each curve
Storage Quantity Of Temperature Curve	Unlimited (each curve can be named in English or Chinese)
Real-time Display	Name of operation curve, Operation Code, Segment time, Segment running time、digital temperature、real-time curve、power output 100%
Selection Segment No. To Start Segment (Cross Segment Start)	Touch to Operation
Curve range	Can Be Modify
Curve Record	Storage Around 20 Month
Data Report (EXCEL)	Multipoint simultaneous display (USB Extension Support)
History curve, Report record (save) time interval	1s-3600s Can be modify, Multi point simultaneous display (Usb Extension Support)
Alarm Instructions	Color Change(Red)
Alarm Information Language	Chinese Display (Alarm Description and time)
Data Output Port	USB
Printer Interface	Parallel Port
Touch Screen Safety Protection	Password Control (Without password cannot doing operation)
Communication Interface	RS485
Furnace Hearth Can Be Customized, More Details Please Contact Us	

## High Temperature Pusher Lift Furnace (GWL-YS-1)



### GWL Series 1200°C-1800°C High Temperature Pusher Lift Furnace

The equipment designed for pyrolysis, melting, analysis and production ceramics, metallurgy, electronics, machinery, chemical, glass, refractories, for develop new material, special materials, construction materials, the equipment is suitable for institutions of higher learning and laboratory of scientific research institute and industrial and mining enterprises.

The control panel equipped with the intelligent adjustment device, power control switch, main working/stop button, voltmeter, ammeter, Computer interface, Observe port / Air inlet port, for convenience to observe the furnace working status, the product using reliable integrated circuit, excellent working environment, anti-interference, the highest temperature of furnace shell temperature is less than 45 can greatly improve the working environment, micro computer program control, programmable setting temperature rise curve. Fully automatic temperature rise / cooling, Temperature control parameters and programs can be modified during operation, which is flexible, convenient and simple in operation.

Temperature Control Accuracy:  $\pm 1^{\circ}\text{C}$ , Temperature Constant Accuracy:  $\pm 1^{\circ}\text{C}$ . Fast Temperature rise rate, Maximum heating rate  $\leq 30^{\circ}\text{C}/\text{min}$ . Furnace hearth materials made up by vacuum forming high purity alumina light materials (Will be changing due to the temperature required), High temperature for use, Less heat storage amount, Tolerance the extremely heating and cold, no crack, No dregs, Excellent thermal insulation performance (the energy saving effect is over 60% of the traditional furnace). Reasonable structure, Double layer furnace cover, Air cooling, Greatly shortening the experimental period.





Model	GWL-YS-1				
Working Temperature	1200°C	1400°C	1600°C	1700°C	1800°C
Maximum Temperature	1250°C	1450°C	1650°C	1750°C	1820°C
Heating Element	Silicon Carbide Rod		Silicon molybdenum rod		
Dimension Of Furnace Hearth	800*500*500 MM   1200*600*600 MM   2000*700*800 MM				
Loading Platform Lift Method	Manual hydraulic				
Loading Platform Passes In And Out	Manual or Electric (Can be Customized)				
Temperature Rise Rate	Temperature Rise Rate Can Be Modify (30°C/min   1°C/h) , Company Suggest 10-20°C/min.				
Refractories Of Loading Platform	Import High Temperature light heat insulation material				
Loading platform capacity	300-500 Kg				
Rated Voltage	380V				
Temperature Uniformity	±1°C				
Temperature Control Accuracy	±1°C				
Standard Accessories	Heating Elements, Specification Certificate, Heat Insulation Brick, Crucible Pliers, High Temperature Gloves.				
<b>Characteristic:</b>					
<b>Open Model: Bottom Open;</b>					
8. Temperature accuracy: ±1°C ; Constant temperature: ±1°C(Base on Heating zone size) 。					
9. Simplicity for operation, programmable, PID automatic modify, automatic temperature rise, automatic temperature retaining , automatic cooling, unattended operation					
10. Cooling structure: Double Layer Furnace Shell, Air Cooling.					
11. Furnace surface temperature approach the indoor temperature.					
12. double layer loop protection. (over temperature protection, over pressure protection, over current protection, thermocouple protection, Power supply protection and so on)					
13. Importing refractory, excellent temperature retaining effect, high temperature resistance, Tolerance the extreme heat and cold					
14. Furnace hearth materials: 1200°C: High Purity Alumina Fiber Board; 1400°C: High purity alumina (Contain zirconium) fiberboard; 1600°C: Import High Purity Alumina Fiber Board; 1700°C-1800°C: High Purity alumina polymer fiber board.					
Furnace Hearth Can Be Customized, More Details Please Contact Us					

## High Temperature Pusher Lift Furnace (GWL-AJST)



### GWL Series 1200°C-1800°C High Temperature Pusher Lift Furnace

The equipment designed for pyrolysis, melting, analysis and production ceramics, metallurgy, electronics, machinery, chemical, glass, refractories, for develop new material, special materials, construction materials, the equipment is suitable for institutions of higher learning and laboratory of scientific research institute and industrial and mining enterprises.

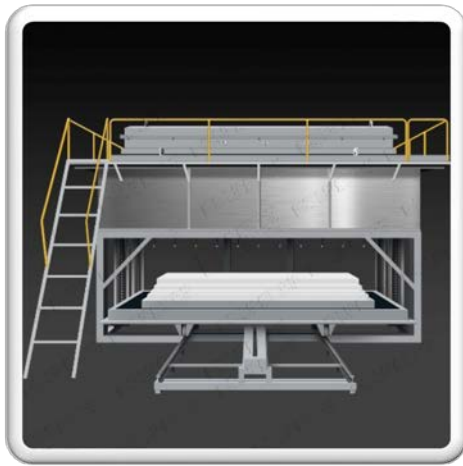
The control panel equipped with the intelligent adjustment device, power control switch, main working/stop button, voltmeter, ammeter, Computer interface, Observe port / Air inlet port, for convenience to observe the furnace working status, the product using reliable integrated circuit, excellent working environment, anti-interference, the highest temperature of furnace shell temperature is less than 45 can greatly improve the working environment, micro computer program control, programmable setting temperature rise curve. Fully automatic temperature rise / cooling, Temperature control parameters and programs can be modified during operation, which is flexible, convenient and simple in operation.

Temperature Control Accuracy:  $\pm 1^{\circ}\text{C}$ , Temperature Constant Accuracy:  $\pm 1^{\circ}\text{C}$ . Fast Temperature rise rate, Maximum heating rate  $\leq 30^{\circ}\text{C}/\text{min}$ . Furnace hearth materials made up by vacuum forming high purity alumina light materials (Will be changing due to the temperature required), High temperature for use, Less heat storage amount, Tolerance the extremely heating and cold, no crack, No dregs, Excellent thermal insulation performance (the energy saving effect is over 60% of the traditional furnace). Reasonable structure, Double layer furnace cover, Air cooling, Greatly shortening the experimental period.



Model	GWL-AJST				
Working Temperature	1200°C	1400°C	1600°C	1700°C	1800°C
Maximum Temperature	1250°C	1450°C	1650°C	1750°C	1820°C
Heating Element	Silicon Carbide Rod		Silicon molybdenum rod		
Dimension Of Furnace Hearth	800*500*500 MM   1200*600*600 MM   2000*700*800 MM				
Loading Platform Lift Method	Manual hydraulic   Electric Screw Mandrel (Can be customized)				
Loading Platform Passes In And Out	Manual or Electric (Can be Customized)				
Temperature Rise Rate	Temperature Rise Rate Can Be Modify (30°C/min   1°C/h) , Company Suggest 10-20°C/min.				
Refractories Of Loading Platform	Import High Temperature Light heat insulation material				
Loading platform capacity	300-500 Kg				
Rated Voltage	380V				
Temperature Uniformity	±1°C				
Temperature Control Accuracy	±1°C				
Standard Accessories	Heating Elements, Specification Certificate, Heat Insulation Brick, Crucible Pliers, High Temperature Gloves.				
<b>Characteristic:</b>					
<b>Open Model: Bottom Open;</b>					
<ol style="list-style-type: none"> <li>1. Temperature accuracy: ±1°C ; Constant temperature: ±1°C(Base on Heating zone size ) 。</li> <li>2. Simplicity for operation, programmable, PID automatic modify, automatic temperature rise, automatic temperature retaining , automatic cooling, unattended operation</li> <li>3. Cooling structure: Double Layer Furnace Shell, Air Cooling.</li> <li>4. Furnace surface temperature approach the indoor temperature.</li> <li>5. double layer loop protection. (over temperature protection, over pressure protection, over current protection, thermocouple protection, Power supply protection and so on)</li> <li>6. Importing refractory, excellent temperature retaining effect, high temperature resistance, Tolerance the extreme heat and cold</li> <li>7. Furnace hearth materials: 1200°C: High Purity Alumina Fiber Board; 1400°C: High purity alumina (Contain zirconium) fiberboard; 1600°C: Import High Purity Alumina Fiber Board; 1700°C-1800°C: High Purity alumina polymer fiber board.</li> </ol>					
Furnace Hearth Can Be Customized, More Details Please Contact Us					

## Vacuum Atmosphere Screw Mandrel Lift Furnace (GWL-ZKSS)



### **GWL Series 1200°C-1800°C High Temperature Vacuum Atmosphere Screw Mandrel Lift Furnace**

The equipment designed for pyrolysis, melting, analysis and production ceramics, metallurgy, electronics, machinery, chemical, glass, refractories, for develop new material, special materials, construction materials, the equipment is suitable for institutions of higher learning and laboratory of scientific research institute and industrial and mining enterprises.

The control panel equipped with the intelligent adjustment device, power control switch, main working/stop button, voltmeter, ammeter, Computer interface, Observe port / Air inlet port, for convenience to observe the furnace working status, the product using reliable integrated circuit, excellent working environment, anti-interference, the highest temperature of furnace shell temperature is less than 45 can greatly improve the working environment, micro computer program control, programmable setting temperature rise curve, Fully automatic temperature rise / cooling, Temperature control parameters and programs can be modified during operation, which is flexible, convenient and simple in operation.

Temperature Control Accuracy:  $\pm 1^{\circ}\text{C}$ , Temperature Constant Accuracy:  $\pm 1^{\circ}\text{C}$ . Fast Temperature rise rate, Maximum heating rate  $\leq 30^{\circ}\text{C}/\text{min}$ . Furnace hearth materials made up by vacuum forming high purity alumina light materials (Will be changing due to the temperature required), High temperature for use, Less heat storage amount, Tolerance the extremely heating and cold, no crack, No dregs, Excellent thermal insulation performance (the energy saving effect is over 60% of the traditional furnace). Reasonable structure, Double layer furnace cover, Air cooling, Greatly shortening the experimental period.



Model	GWL-ZKSS				
Working Temperature	1200°C	1400°C	1600°C	1700°C	1800°C
Maximum Temperature	1250°C	1450°C	1650°C	1750°C	1820°C
Heating Element	Silicon Carbide Rod		Silicon Molybdenum Rod		
Dimension Of Furnace Hearth	800*500*500 MM   800*800*800 MM  1300*600*600 MM  1300*750*600 MM 1500*800*800 MM				
Loading Platform Lift Method	Screw Mandrel Lift (Lifting speed adjustable)				
Vacuum Degree	-0.1MPa				
Temperature Rise Rate	Temperature Rise Rate Can Be Modify (30°C/min   1°C/h) , Company Suggest 10-20°C/min.				
Water cooling	Equip circulating water pump and tank				
Refractories Of Loading Platform	Vacuum forming high purity alumina light material and hollow ball material, to ensure the heat preservation and bearing capacity				
Loading platform passes in and out	Electric screw mechanical drive(Pass in and out speed adjustable)				
Protection	The system is specially made to prevent the danger of closure of the exhaust port, the blockage of the exhaust port and the excessive pressure of the furnace tube. The signal is obtained by the electric contact pressure meter or pressure sensor then the drive control module will close the electromagnetic inlet valve and starts the electromagnetic exhaust valve and the alarm. to ensure the furnace can be used properly and safely.				
Rated Voltage	380V				
Temperature Uniformity	±1°C				
Temperature Control Accuracy	±1°C				
Standard Accessories	Heating Elements, Specification Certificate, Heat Insulation Brick, Crucible Pliers, High Temperature Gloves.				

**Characteristic:****Operational Simplicity, Screw mandrel lift, Excellent precision.**

1. Temperature accuracy: ±1°C ; Constant temperature: ±1°C(Base on Heating zone size ) .
2. Simplicity for operation, programmable, PID automatic modify, automatic temperature rise, automatic temperature retaining , automatic cooling, unattended operation
3. Cooling structure: Air + Water Cooling.
4. Furnace surface temperature approach the indoor temperature.
5. double layer loop protection. (over temperature protection, over pressure protection, over current protection, thermocouple protection, Power supply protection and so on)
6. Importing refractory, excellent temperature retaining effect, high temperature resistance, Tolerance the extreme heat and cold
7. More gas options (Oxygen、Nitrogen、Argon、hydrogen and so on)
8. Furnace hearth materials: 1200°C: High Purity Alumina Fiber Board; 1400°C: High purity alumina (Contain zirconium) fiberboard; 1600°C: Import High Purity Alumina Fiber Board; 1700°C-1800°C: High Purity alumina polymer fiber board.
9. 2 of Loading Platforms Can be customized. (More efficient and energy-efficient)

Furnace Hearth, Vacuum Degree Can Be Customized, More Details Please Contact Us

## Vacuum Atmosphere Lift (Screw Mandrel) Furnace (GWL-ZQSS)



### **GWL Series 1200°C-1800°C Vacuum Atmosphere Lift (Screw Mandrel) Furnace**

The equipment designed for pyrolysis, melting, analysis and production ceramics, metallurgy, electronics, machinery, chemical, glass, refractories, for develop new material, special materials, construction materials, the equipment is suitable for institutions of higher learning and laboratory of scientific research institute and industrial and mining enterprises.

The control panel equipped with the intelligent adjustment device, power control switch, main working/stop button, voltmeter, ammeter, Computer interface, Observe port / Air inlet port, for convenience to observe the furnace working status, the product using reliable integrated circuit, excellent working environment, anti-interference, the highest temperature of furnace shell temperature is less than 45 can greatly improve the working environment, micro computer program control, programmable setting temperature rise curve, Fully automatic temperature rise / cooling, Temperature control parameters and programs can be modified during operation, which is flexible, convenient and simple in operation.

Temperature Control Accuracy:  $\pm 1^{\circ}\text{C}$ , Temperature Constant Accuracy:  $\pm 1^{\circ}\text{C}$ . Fast Temperature rise rate, Maximum heating rate  $\leq 30^{\circ}\text{C}/\text{min}$ . Furnace hearth materials made up by vacuum forming high purity alumina light materials (Will be changing due to the temperature required), High temperature for use, Less heat storage amount, Tolerance the extremely heating and cold, no crack, No dregs, Excellent thermal insulation performance (the energy saving effect is over 60% of the traditional furnace). Reasonable structure, Double layer furnace cover, Air cooling, Greatly shortening the experimental period.



Model	GWL-ZQSS				
Working Temperature	1200°C	1400°C	1600°C	1700°C	1800°C
Maximum Temperature	1250°C	1450°C	1650°C	1750°C	1820°C
Heating Element	Silicon Carbide Rod		Silicon molybdenum rod		
Dimension Of Furnace Hearth	200*150*150 MM 300*200*200 MM  400*200*200 MM 500*300*200 MM 500*300*300 MM				
Vacuum Degree	-0.1MPa				
Temperature Rise Rate	Temperature Rise Rate Can Be Modify (30°C/min   1°C/h) , Company Suggest 10-20°C/min.				
Water cooling	Equip circulating water pump and tank (300L)				
Loading Platform Lift Method	Screw Mandrel Lift (Lifting speed adjustable)				
Loading platform passes in and out	Hydraulic / Mechanical				
Loading Capacity	1-3 Ton				
Rated Voltage	380V				
Temperature Uniformity	±1°C				
Temperature Control Accuracy	±1°C				
Standard Accessories	Heating Elements, Specification Certificate, Heat Insulation Brick, Crucible Pliers, High Temperature Gloves.				

**Characteristic:****Operational Simplicity, Screw mandrel lift, Excellent precision.**

1. Temperature accuracy: ±1°C ; Constant temperature: ±1°C(Base on Heating zone size) 。
2. Simplicity for operation, programmable, PID automatic modify, automatic temperature rise, automatic temperature retaining , automatic cooling, unattended operation
3. Cooling structure: Air + Water Cooling.
4. Furnace surface temperature approach the indoor temperature.
5. double layer loop protection. (over temperature protection, over pressure protection, over current protection, thermocouple protection, Power supply protection and so on)
6. Importing refractory, excellent temperature retaining effect, high temperature resistance, Tolerance the extreme heat and cold
7. More gas options (Oxygen、Nitrogen、Argon、hydrogen and so on)
8. Furnace lining materials: 1200°C: High purity alumina fiber board; 1400°C: High purity alumina contains zirconium fiber board; 1600°C:Import high purity alumina fiber board; 1700-1800°C: Imported German MESCHUPP vacuum forming high purity alumina poly light material.
9. 2 of Loading Platforms Can be customized. (More efficient and energy-efficient)

Furnace Hearth, Vacuum Degree, And Lift Method Can Be Customized, More Details Please Contact Us

## Vacuum atmosphere Lift Furnace (Furnace inside with agitation) (GWL-VSF-SR)



### GWL Series 1200°C-1800°C Vacuum atmosphere Lift Furnace (Furnace inside with agitation)

The equipment designed for pyrolysis, melting, analysis and production ceramics, metallurgy, electronics, machinery, chemical, glass, refractories, for develop new material, special materials, construction materials, the equipment is suitable for institutions of higher learning and laboratory of scientific research institute and industrial and mining enterprises.

The control panel equipped with the intelligent adjustment device, power control switch, main working/stop button, voltmeter, ammeter, Computer interface, Observe port / Air inlet port, for convenience to observe the furnace working status, the product using reliable integrated circuit, excellent working environment, anti-interference, the highest temperature of furnace shell temperature is less than 45 can greatly improve the working environment, micro computer program control, programmable setting temperature rise curve, Fully automatic temperature rise / cooling, Temperature control parameters and programs can be modified during operation, which is flexible, convenient and simple in operation.

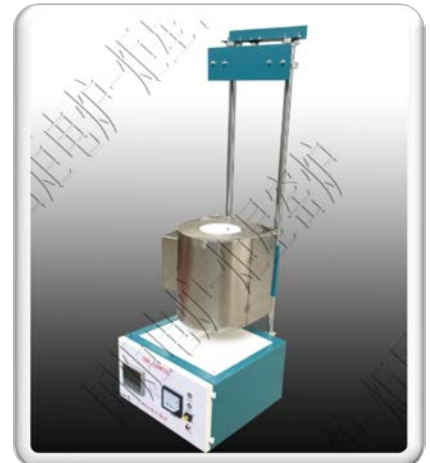
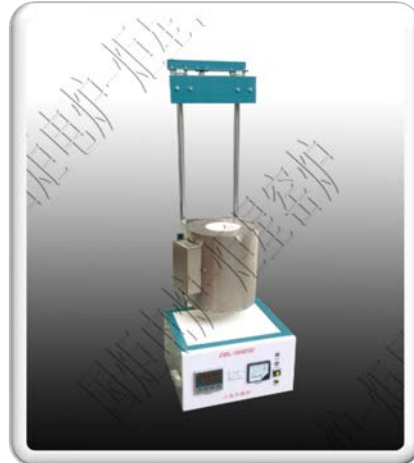
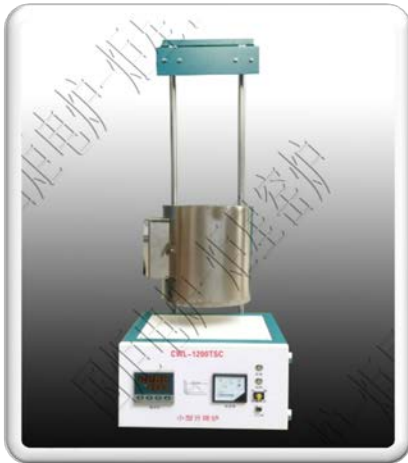
Temperature Control Accuracy:  $\pm 1^{\circ}\text{C}$ , Temperature Constant Accuracy:  $\pm 1^{\circ}\text{C}$ . Fast Temperature rise rate, Maximum heating rate  $\leq 30^{\circ}\text{C}/\text{min}$ . Furnace hearth materials made up by vacuum forming high purity alumina light materials (Will be changing due to the temperature required), High temperature for use, Less heat storage amount, Tolerance the extremely heating and cold, no crack, No dregs, Excellent thermal insulation performance (the energy saving effect is over 60% of the traditional furnace). Reasonable structure, Double layer furnace cover, Air cooling, Greatly shortening the experimental period.





Model	GWL-VSF-SR				
Working Temperature	1200°C	1400°C	1600°C	1700°C	1800°C
Maximum Temperature	1250°C	1450°C	1650°C	1750°C	1820°C
Heating Element	U Type Silicon Carbide Rod		U Type Silicon molybdenum rod		
Diameter Of Furnace Hearth	200 mm   300mm   500mm  800mm				
Height Of Furnace Hearth	300mm   500mm   800mm  1000mm				
Lift Method	Screw Mandrel				
Temperature Rise Rate	Temperature Rise Rate Can Be Modify (30°C/min   1°C/h) Company Suggest 10-20°C/min.				
Vacuum Degree	-0.1Mpa (Can Customize As 1Pa, -1Pa, -0.01Pa and so on)				
Rated Voltage	380V				
Temperature Uniformity	±1°C				
Temperature Control Accuracy	±1°C				
Furnace Lining Materials	High Purity Alumina Fiber Board	Import Morgan Light Material	Import High Purity Morgan Light Material		
Rotation Speed	1-50r/min				
Standard Accessories	Heating Elements 2 Pieces, Specification Certificate, One Piece Heat Insulation Brick, A Pair Crucible Pliers, One Pair Of High Temperature Gloves. One-piece special crucible for tube furnace, Two-piece seal rings				
<b>Characteristic:</b>					
<b>Furnace hearth with agitation; High Temperature uniformity.</b>					
1. Temperature accuracy: ±1°C ; Constant temperature: ±1°C(Base on Heating zone size ) .					
2. Simplicity for operation, programmable, PID automatic modify, automatic temperature rise, automatic temperature retaining, automatic cooling, unattended operation					
3. Cooling structure: Double layer furnace shell, air cooling and water cooling					
4. Furnace surface temperature approach the indoor temperature.					
5. double layer loop protection. (over temperature protection, over pressure protection, over current protection, thermocouple protection, Power supply protection and so on)					
6. Importing refractory, excellent temperature retaining effect, high temperature resistance, Tolerance the extreme heat and cold					
7. More gas options (Oxygen、Nitrogen、Argon、hydrogen and so on)					
Furnace Hearth And Atmosphere Can Be Customized, More Details Please Contact Us					

## Lift Tube Furnace (GWL-GAS)



### GWL Series 1200°C-1800°C Lift Tube Furnace

The equipment designed for pyrolysis, melting, analysis and production ceramics, metallurgy, electronics, machinery, chemical, glass, refractories, for develop new material, special materials, construction materials, the equipment is suitable for institutions of higher learning and laboratory of scientific research institute and industrial and mining enterprises.

The control panel equipped with the intelligent adjustment device, power control switch, main working/stop button, voltmeter, ammeter, Computer interface, Observe port / Air inlet port, for convenience to observe the furnace working status, the product using reliable integrated circuit, excellent working environment, anti-interference, the highest temperature of furnace shell temperature is less than 45 can greatly improve the working environment, micro computer program control, programmable setting temperature rise curve, Fully automatic temperature rise / cooling, Temperature control parameters and programs can be modified during operation, which is flexible, convenient and simple in operation.

Temperature Control Accuracy:  $\pm 1^{\circ}\text{C}$ , Temperature Constant Accuracy:  $\pm 1^{\circ}\text{C}$ . Fast Temperature rise rate, Maximum heating rate  $\leq 30^{\circ}\text{C}/\text{min}$ . Furnace hearth materials made up by vacuum forming high purity alumina light materials (Will be changing due to the temperature required), High temperature for use, Less heat storage amount, Tolerance the extremely heating and cold, no crack, No dregs, Excellent thermal insulation performance (the energy saving effect is over 60% of the traditional furnace). Reasonable structure, Double layer furnace cover, Air cooling, Greatly shortening the experimental period.



Model	GWL-GAS				
Working Temperature	1200°C	1400°C	1600°C	1700°C	1800°C
Maximum Temperature	1250°C	1450°C	1650°C	1750°C	1820°C
Heating Element	Silicon Carbide Rod		Silicon molybdenum rod		
Diameter Of Tube	30mm  50mm  60mm  80mm  90mm  100mm  110mm  150mm (Can be Customized)				
Length Of Heating Zone	150mm  250mm  300mm  400mm  500mm  600mm   700mm  1000mm  1200mm ( Can be Customized )				
Tube Materials	Below 1400°C: Stainless Steel Tube /quartz glass tube / corundum tube Above 1400°C: Corundum tube				
Lift Method	Electric Machinery Lift (Lift Speed adjustable)				
Temperature Rise Rate	Temperature Rise Rate Can Be Modify ( 30°C/min   1°C/h ) Company Suggest 10-20°C/min.				
Vacuum Degree	-0.1Mpa ( Can Customize As 1Pa, -1Pa, -0.01Pa and so on )				
Rated Voltage	380V				
Temperature Uniformity	±1°C				
Temperature Control Accuracy	±1°C				
Standard Accessories	Heating Elements, Specification Certificate, Heat Insulation Brick, Crucible Pliers, High Temperature Gloves. Special crucible for tube furnace, seal rings				
<b>Characteristic:</b>					
<ol style="list-style-type: none"> <li>1. Temperature accuracy: ±1°C ; Constant temperature: ±1°C(Base on Heating zone size ) 。</li> <li>2. Simplicity for operation, programmable , PID automatic modify, automatic temperature rise, automatic temperature retaining, automatic cooling, unattended operation</li> <li>3. Cooling structure: Double layer furnace shell, air cooling and water cooling</li> <li>4. Furnace surface temperature approach the indoor temperature.</li> <li>5. double layer loop protection. (over temperature protection, over pressure protection, over current protection, thermocouple protection, Power supply protection and so on)</li> <li>6. Importing refractory, excellent temperature retaining effect, high temperature resistance, Tolerance the extreme heat and cold</li> <li>7. More gas options (Oxygen、Nitrogen、Argon、hydrogen and so on)</li> <li>8. Furnace hearth materials: 1200°C: High Purity Alumina Fiber Board; 1400°C: High purity alumina (Contain zirconium) fiberboard; 1600°C: Import High Purity Alumina Fiber Board; 1700°C-1800°C: High Purity alumina polymer fiber board.</li> </ol>					
Tube Dimension Can Be Customize , More Details Please Contact Us.					

## High Temperature Automatic Lift Glass Softening Furnace (GWL-SS)



### **GWL Series 1200°C-1800°C High Temperature Automatic Lift Glass Softening Furnace**

The equipment designed for pyrolysis, melting, analysis and production ceramics, metallurgy, electronics, machinery, chemical, glass, refractories, for develop new material, special materials, construction materials, the equipment is suitable for institutions of higher learning and laboratory of scientific research institute and industrial and mining enterprises.

The control panel equipped with the intelligent adjustment device, power control switch, main working/stop button, voltmeter, ammeter, Computer interface, Observe port / Air inlet port, for convenience to observe the furnace working status, the product using reliable integrated circuit, excellent working environment, anti-interference, the highest temperature of furnace shell temperature is less than 45 can greatly improve the working environment, micro computer program control, programmable setting temperature rise curve, Fully automatic temperature rise / cooling, Temperature control parameters and programs can be modified during operation, which is flexible, convenient and simple in operation.

Temperature Control Accuracy:  $\pm 1^{\circ}\text{C}$ , Temperature Constant Accuracy:  $\pm 1^{\circ}\text{C}$ . Fast Temperature rise rate, Maximum heating rate  $\leq 30^{\circ}\text{C}/\text{min}$ . Furnace hearth materials made up by vacuum forming high purity alumina light materials (Will be changing due to the temperature required), High temperature for use, Less heat storage amount, Tolerance the extremely heating and cold, no crack, No dregs, Excellent thermal insulation performance (the energy saving effect is over 60% of the traditional furnace). Reasonable structure, Double layer furnace cover, Air cooling, Greatly shortening the experimental period.



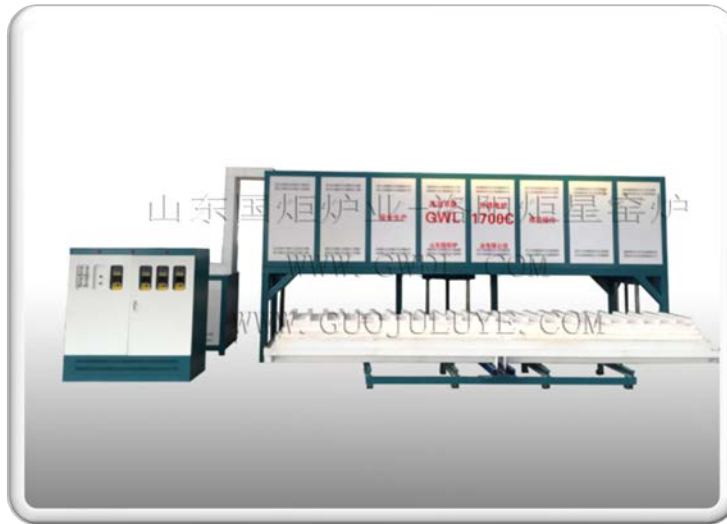
Model	GWL-SS				
Working Temperature	1200°C	1400°C	1600°C	1700°C	1800°C
Maximum Temperature	1250°C	1450°C	1650°C	1750°C	1820°C
Heating Element	Silicon Carbide Rod		Silicon molybdenum rod		
Cubage Of Crucible	1.6L/3L/5L/10L/17L				
Quantity Of Loading Platform	Can be customized				
Loading Platform Capacity	1-50KG				
Lift Method	Electric Machinery Lift (Lift Speed adjustable)				
Temperature Rise Rate	Temperature Rise Rate Can Be Modify (30°C/min   1°C/H) company Suggest 10-20°C/min.				
Rated Voltage	380V				
Temperature Uniformity	±1°C				
Temperature Control Accuracy	±1°C				
Optional Function	Control software and hardware; Touch Screen Control Temperature Controller; Exhaust Port or View Port, and So on.				
Standard Accessories	Heating Elements, Specification Certificate, Heat Insulation Brick, Crucible Pliers, High Temperature Gloves				

**Characteristic:**

1. Temperature accuracy: ±1°C ; Constant temperature: ±1°C(Base on Heating zone size ) 。
2. Simplicity for operation, programmable, PID automatic modify, automatic temperature rise, automatic temperature retaining, automatic cooling, unattended operation
3. Cooling structure: Double layer furnace shell, air cooling
4. Furnace surface temperature approach the indoor temperature.
5. double layer loop protection. (over temperature protection, over pressure protection, over current protection, thermocouple protection, Power supply protection and so on)
6. Importing refractory, excellent temperature retaining effect, high temperature resistance, Tolerance the extreme heat and cold
7. More gas options (Oxygen、Nitrogen、Argon、hydrogen and so on)
8. Furnace hearth materials: 1200°C: High Purity Alumina Fiber Board; 1400°C: High purity alumina (Contain zirconium) fiberboard; 1600°C: Import High Purity Alumina Fiber Board; 1700°C-1800°C: High Purity alumina polymer fiber board.

Furnace Hearth Can Be Customized, More Details Please Contact Us.

## 6 Meters Large Scale Lift Furnace (With Touch Screen Control System) (GWL-SS)



### **GWL Series 1200°C-1800°C High Temperature 6 Meters Large Scale Lift Furnace**

The equipment designed for pyrolysis, melting, analysis and production ceramics, metallurgy, electronics, machinery, chemical, glass, refractories, for develop new material, special materials, construction materials, the equipment is suitable for institutions of higher learning and laboratory of scientific research institute and industrial and mining enterprises.

The control panel equipped with the intelligent adjustment device, power control switch, main working/stop button, voltmeter, ammeter, Computer interface, Observe port / Air inlet port, for convenience to observe the furnace working status, the product using reliable integrated circuit, excellent working environment, anti-interference, the highest temperature of furnace shell temperature is less than 45 can greatly improve the working environment, micro computer program control, programmable setting temperature rise curve, Fully automatic temperature rise / cooling, Temperature control parameters and programs can be modified during operation, which is flexible, convenient and simple in operation.

Temperature Control Accuracy:  $\pm 1^{\circ}\text{C}$ , Temperature Constant Accuracy:  $\pm 1^{\circ}\text{C}$ . Fast Temperature rise rate, Maximum heating rate  $\leq 30^{\circ}\text{C}/\text{min}$ . Furnace hearth materials made up by vacuum forming high purity alumina light materials (Will be changing due to the temperature required), High temperature for use, Less heat storage amount, Tolerance the extremely heating and cold, no crack, No dregs, Excellent thermal insulation performance (the energy saving effect is over 60% of the traditional furnace). Reasonable structure, Double layer furnace cover, Air cooling, Greatly shortening the experimental period.



Model	GWL-SS				
Working Temperature	1200°C	1400°C	1600°C	1700°C	1800°C
Maximum Temperature	1250°C	1450°C	1650°C	1750°C	1820°C
Heating Element	Silicon Carbide Rod		Silicon molybdenum rod		
Furnace Hearth Dimension	1300*750*600 mm  1300*600*600 mm  1500*800*800 mm  2500*800*800mm  5000*800*600 mm				
Quantity Of Loading Platform	1 or 2				
Loading Platform Capacity	1000 KG(Can be customized)				
Lift Method	Electric Machinery Double Screw Mandrel Lift (Lift Speed adjustable)				
Temperature Rise Rate	Temperature Rise Rate Can Be Modify (30°C/min   1°C/h) Company Suggest 10-20°C/min.				
Rated Voltage	380V				
Temperature Uniformity	±1°C				
Temperature Control Accuracy	±1°C				
Optional Function	Control software and hardware; Touch Screen Control Temperature Controller; Exhaust Port or View Port, and So on.				
Standard Accessories	Heating Elements, Specification Certificate, Heat Insulation Brick, Crucible Pliers, High Temperature Gloves				

**Characteristic:**

1. Temperature accuracy: ±1°C ; Constant temperature: ±1°C(Base on Heating zone size ) 。
2. Simplicity for operation, programmable, PID automatic modify, automatic temperature rise, automatic temperature retaining, automatic cooling, unattended operation
3. Cooling structure: Double layer furnace shell, air cooling
4. Furnace surface temperature approach the indoor temperature.
5. double layer loop protection. (over temperature protection, over pressure protection, over current protection, thermocouple protection, Power supply protection and so on)
6. Importing refractory, excellent temperature retaining effect, high temperature resistance, Tolerance the extreme heat and cold
7. More gas options (Oxygen、Nitrogen、Argon、hydrogen and so on)
8. Furnace hearth materials: 1200°C: High Purity Alumina Fiber Board; 1400°C: High purity alumina (Contain zirconium) fiberboard; 1600°C: Import High Purity Alumina Fiber Board; 1700°C-1800°C: High Purity alumina polymer fiber board.

Furnace Hearth Can Be Customized, More Details Please Contact Us.



Touch screen control	
Screen Dimension	7inch; 10inch; 14inch TFT True Color
Appearance Dimension	206W*156H*50D(mm) , 280W*200H*50D(mm)
Display Resolution	800*480
Background Light	LED
Power Rating	5W
Weight	1KG
Operation Language	Chinese/English (Switch freely)
Screen Display And Operation	Dashboard, Photo Column, Historical Trend, Data Report, Alarm Information, Data Export, Process Flow, System Management, etc.
Control Objective	Temperature, Pressure, Flux And Liquid Level and so on
Temperature Control	Touch Screen & High Precision Integrated Module
Start Temperature Rise	Touch operation
Pause Temperature Rise	
Stop Temperature Rise	
Loading Platform Passed In And Out	
Loading Platform Raise And Fall	
Start, Pause, Stop, Program	
Flow Chart	Base on furnace structure or process flow
Temperature Curve Formulation	Touch to operation, 30 segments of each curve
Storage Quantity Of Temperature Curve	Unlimited (each curve can be named in English or Chinese)
Real-time Display	Name of operation curve, Operation Code, Segment time, Segment running time, digital temperature, real-time curve, power output 100%
Selection Segment No. To Start Segment (Cross Segment Start)	Touch to Operation
Curve range	Can Be Modify
Curve Record	Storage Around 20 Month
Data Report (EXCEL)	Multipoint simultaneous display (USB Extension Support)
History curve, Report record (save) time interval	1s-3600s Can be modify, Multi point simultaneous display (Usb Extension Support)
Alarm Instructions	Color Change(Red)
Alarm Information Language	Chinese Display (Alarm Description and time)
Data Output Port	USB
Printer Interface	Parallel Port
Touch Screen Safety Protection	Password Control (Without password cannot doing operation)
Communication Interface	RS485



