KINTEK
Solution for researching

KINTEK SOLUTION

Tube Furnace Catalog

Contact us for more catalogs of Sample Preparation, Thermal Equipment, Lab Consumables & Materials, Bio-Chem Equipment, etc.

KINTEK SOLUTION

COMPANY PROFILE

>>> About Us

Company Profile

Kintek Solution Ltd is one technology orientated organization, team members are devoted to probing the most efficicent and reliable technology and innovations in the scienticfic researching equipment, fields like biochemical reacting, new materials researching, heat treatment, vaccum creating, refrigerating, as while as pharmaceutical and petroleum extracting equipment.

Products & Services

Kintek Solution Ltd is headquartered in Zhengzhou, the capital city of Henan Province, China, and its core business includes the manufacture, distribution and sale of all types of scientific research equipment and laboratory consumables. The wide range of products and services covers the following main areas:

- **Sample Preparation Equipment:** We provide high-performance sample preparation equipment such as tablet presses, ball mills, vibrating sieves and tablet punching machines, which are capable of meeting a wide range of sample preparation needs and ensuring high quality experimental data and research results.
- **Thermal Equipment:** Our thermal equipment includes tube furnaces, sintering furnaces, vacuum furnaces, atmosphere furnaces, graphite furnaces, dental furnaces, rotary furnaces, and high-temperature furnaces (e.g., MPCVD, CVD, PECVD, electric rotary kilns). These facilities excel in high-temperature processing and materials synthesis, meeting a wide range of needs from basic research to industrial production.
- **Biochemical equipment:** We offer a wide range of biochemical laboratory equipment, including rotary evaporators, vacuum pumps, cold trap chillers,

heating circulators, reactors, short-range distillation equipment, sterilization equipment, and homogenizers. These equipments are widely used in the fields of chemical reaction, biological processing and pharmaceutical manufacturing.

- **Laboratory Consumables:** We supply a wide range of laboratory consumables such as fine ceramic products, electrochemical consumables, PTFE material products, high purity materials, battery materials, chemical vapor deposition materials, optical materials, thin film deposition components and glass materials. These consumables provide the necessary support for laboratories to ensure the smooth running of experimental processes.

Technological Advantages

Kintek Solution Ltd has significant technological strengths in the field of scientific research equipment and technical solutions, which enable us to stand out in a competitive marketplace and support our customers with cutting-edge technology. The following are our key technological strengths:

Advanced R&D capabilities

- Technological Innovation: Our R&D team is committed to exploring and developing the latest technologies to keep our equipment at the forefront of the industry through continuous technological innovation.
- Customized solutions: Based on the specific needs of our customers, we are able to develop and provide customized equipment to meet specific research requirements and application scenarios.
- Cooperative R&D: We cooperate with leading research institutes and higher education institutions around the world to carry out R&D projects on cutting-edge technologies to ensure that our technologies are always at the forefront of the industry.

High-performance equipment

- Precision design: Our equipment adopts advanced design concepts to ensure high precision, reliability and performance to meet the stringent requirements of scientific research and industrial applications.
- Advanced materials: We use high-quality materials and components to improve the durability and stability of our equipment, extend its service life and reduce maintenance costs.

Strict quality control

- Standardized production: All equipment is manufactured in accordance with international quality standards, and each production step is strictly controlled to ensure product consistency and reliability.
- Comprehensive testing: Comprehensive performance testing and quality inspection are carried out before the equipment is delivered to ensure that it meets the customer's technical specifications and operational requirements.

Comprehensive technical support

- Technical Service: Provide comprehensive technical support and after-sales service, including equipment installation, commissioning, training and maintenance, to ensure that customers can use our products efficiently.
- Rapid Response: We have established a rapid response mechanism, which can promptly solve the problems encountered by customers in the process of use and reduce equipment downtime.

Innovative technology integration

- System Integration: We integrate advanced control systems and automation technologies into our equipment to improve operational efficiency and data accuracy, and streamline operational processes.

Through these technological advantages, Kintek Solution Ltd is able to continue to provide our customers with innovative, efficient and reliable scientific research equipment and solutions to promote the continuous progress of scientific research and industrial applications.

Market position and customers

Kintek Solution Ltd is positioned in the market as a leading global provider of high-tech research equipment and solutions, specializing in biochemical reactions, new materials research, heat treatment, vacuum manufacturing, refrigeration, as well as pharmaceuticals and oil extraction. We are committed to brand leadership in research equipment by providing innovative technology and high quality equipment to meet the needs of research organizations and industrial companies in complex research and production processes.

Core Market Positioning:

- Specialization: We focus on high technology and scientific research, providing advanced equipment and solutions for specialized research institutes, laboratories and industrial applications.
- High-end customers: Our main customers include world-renowned universities, research institutes and various industrial enterprises, which usually have high requirements for equipment performance and technology.
- Technological Innovation: We are committed to technological innovation and customized solutions to ensure that our customers receive cutting-edge technical support to meet the ever-changing needs and challenges in the market.

Market Customer Groups:

- Research Institutes and Universities: including the world's leading research institutes and institutions of higher learning, who require high-performance research equipment and technical support for basic research, applied research and technology development.
- Industrial companies: covering a wide range of industries such as pharmaceuticals, oil extraction, new materials manufacturing and electronic materials production, these companies rely on reliable equipment and solutions to ensure product quality and productivity during production.
- Laboratories and test centers: organizations that provide laboratory services and quality testing, requiring accurate laboratory equipment and instruments for sample analysis and testing.
- Technology Development Companies: Companies that specialize in the development and application of new technologies and have a high demand for innovative equipment and technical solutions to support their R&D projects and technology validation.

Through clear market positioning and customer groups, we are committed to promoting scientific and technological progress, supporting the innovation and development of our global customers, and continuing to provide high-quality products and services to the market.

Team Introduction

The team at Kintek Solution Ltd is at the heart of the company's success. In order to realize our vision and maintain our leadership position in the field of high-tech research equipment, we are committed to building an exceptional team with the following attributes:

1. Professionalism

- Technical Expertise: Our team consists of technical experts and engineers in the field with deep expertise and technical backgrounds to meet complex technical challenges and innovation needs.
- Industry experience: We bring together professionals with extensive experience in the fields of research equipment, material science and engineering technology to ensure a precise grasp of market needs and technological trends.

2. Innovative Spirit

- R&D-driven: The team encourages innovative thinking and technological exploration, supports employees to participate in R&D projects on cutting-edge technologies, and continuously pushes forward the technological advancement of products and solutions.
- Flexible Adaptation: In the face of changing market environment, we have the ability to adapt quickly and flexibly to meet the changing needs of our customers.

3. Collaboration and Communication

- Cross-sectoral collaboration: The team maintains close collaboration between various departments, including R&D, production, sales and customer service, to ensure the smooth progress of projects and timely response to customer needs.
- Efficient Communication: Emphasize internal communication and information sharing, through efficient communication mechanisms and tools to ensure that all team members are consistent with the project goals and progress.

4. Customer Orientation

- Customer Service: Team members are customer-focused and committed to providing quality service and support to ensure that our customers have the best experience in using our products and solutions.

- Customized solutions: the ability to deeply understand the specific needs of customers and provide customized solutions to meet the special requirements of different customers.

5. Professional Training and Development

- Continuous Learning: We provide continuous training and learning opportunities for our team members to ensure that they are always up-to-date with the latest technology and industry knowledge.
- Career Development: We value the career development and growth of our employees, provide clear career paths and promotion opportunities, and motivate our employees to realize their personal goals and career aspirations within the company.

6. Corporate Culture

- Integrity and Responsibility: The team upholds integrity and responsibility, treats work and customers with honesty and fairness, and builds trust and long-term cooperative relationships.
- Unity and Collaboration: Focusing on the spirit of teamwork, the team emphasizes mutual support and joint efforts to achieve the company's goals and promote the overall success of the team.

By building such a highly qualified, innovation-driven and customer-oriented team, we ensure that Kintek Solution Ltd continues to lead in the field of scientific research equipment and provide excellent products and services to our customers worldwide.

At KINTEK, technology fuels our corporate spirit. This dynamic energy awaits you upon joining our team. Expect a distinctive cultural environment where our global business focus opens doors to diverse customs and traditions worldwide. Here, challenging roles promise to propel your career to new heights.

Our exceptional corporate culture sparks innovation, fosters care, and drives continuous progress among individuals and teams. Our team embodies youthfulness, positivity, enthusiasm, and a bold attitude toward challenges. Passionate about our business, our employees ardently contribute to the company's growth.

We seek individuals brave enough to embrace challenges, harbor grand ambitions, and thirst for knowledge. If you're driven by dreams and passion, and aspire to start your

entrepreneurial journey, KINTEK is the platform to actualize your career plans. We don't just offer opportunities; we pave the way for your future.

Join us at KINTEK, where innovation meets opportunity. Let's create a future that's as promising as your aspirations.

Future Plans

Kintek Solution Ltd's future plans are aimed at further strengthening our leadership position in the research equipment sector and driving the company forward in terms of technological innovation, market expansion and customer service. The following are our key future directions:

1. Technology Innovation and R&D

- Cutting-edge technology development: Continue to invest resources in the research and development of cutting-edge technologies, such as artificial intelligence, the Internet of Things and nanotechnology, in order to promote equipment intelligence and automation.
- New Product Lines: Expand existing product lines and develop equipment to meet emerging market needs, especially in the areas of biochemistry, biomedicine and high-performance materials.
- Cooperative R&D: Strengthen cooperation with international research institutes and institutions of higher learning to carry out joint R&D projects to ensure that the technology remains at the global leading level.

2. Market Expansion

- Global Market Expansion: Further expand the global market, especially in emerging markets and developing regions, establish more sales and service networks, and enhance the brand's international influence.
- Industry application: Explore and expand the application fields in other industries, such as new energy, environmental protection technology and intelligent manufacturing, to open up new business growth points.

3. Customer Service Enhancement

- Enhancement of customer support: Establish a more complete customer support system, provide 24/7 technical support and maintenance services, and ensure

the efficient experience of customers in the use of equipment.

- Customized services: Provide more customized services and solutions according to customers' individual needs to enhance customer satisfaction and loyalty.

4. Sustainable Development

- Environmentally friendly technology: Develop and adopt environmentally friendly materials and processes to reduce the environmental impact during the production and use of equipment and promote sustainable development.
- Energy saving and consumption reduction: Optimize the energy efficiency of equipment, reduce energy consumption, improve resource utilization efficiency, and support the development of green technology.

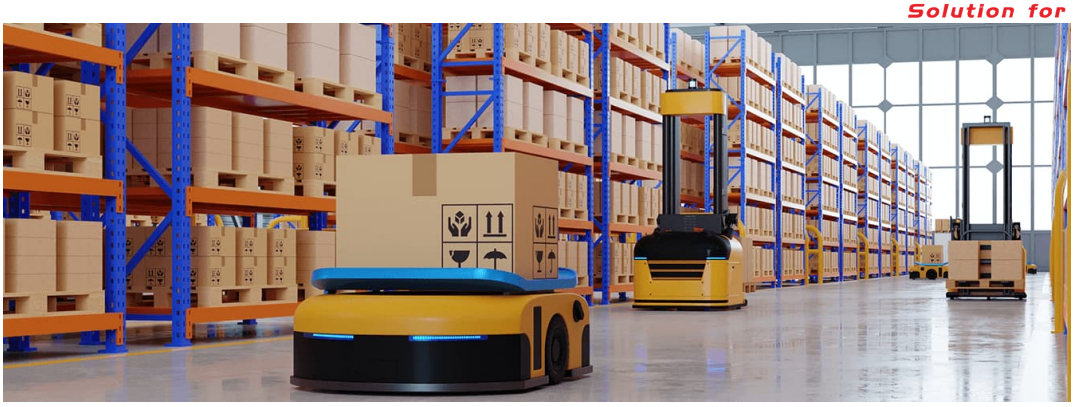
5. Internal optimization

- Intelligent management: Implement intelligent management systems and data analysis tools to improve productivity and management and reduce operating costs.
- Employee Training: Enhance employee training and skills upgrading to build a high-quality team to meet changing market demands and technological challenges.

6. Innovation ecosystem

- Establishment of innovation platform: Create innovation platforms and laboratories to support employees and partners in technological innovation and product development.
- Industry Chain Cooperation: Deepen cooperation with the upstream and downstream of the industry chain, integrate resources, and promote the development and implementation of industry technical standards and market norms.

Through these future plans, Kintek Solution Ltd will continue to lead the forefront of science and technology, provide customers with more advanced and reliable products and services, and at the same time, promote the sustainable development of the enterprise and the progress of the industry.



1200°C Split Tube Furnace With Quartz Tube

Item Number: KT-TF12

Introduction

KT-TF12 split tube furnace: high-purity insulation, embedded heating wire coils, and max. 1200C. Widely used for new materials and chemical vapour deposition.

Learn More

Furnace model	KT-TF12
Max. temperature	1200℃
Constant work temperature	1100℃
Furnace tube material	High purity quartz
Furnace tube diameter	30 / 40 / 60 / 80 / 100 / 120 /150 / 230 mm
Heating zone length	300 / 450 / 600 / 800 mm
Vacuum sealing solution	SS 304 flange with O ring
Rated vacuum pressure	0.001Pa/10E5 torr
Rated positive pressure	0.02Mpa/150 torr
Chamber material	Japan alumina fiber
Heating element	Cr2Al2Mo2 wire coil
Heating rate	0-20℃/min
Temperature sensor	Build in K type thermal couple
Temperature controller	Digital PID controller/Touch screen PID controller
Temperature control accuracy	±1℃
Temperature uniformity	±5℃
Electric power supply	AC110-220V,50/60HZ

Other quartz size and heating zone length can be customized

No.	Description	Quantity
1	Furnace	1
2	Quartz tube	1
3	Vacuum flange	2
4	Tube thermal block	2
5	Tube thermal block hook	1
6	Heat resistant glove	1
7	Operation manual	1

1400°C Tube Furnace With Alumina Tube

Item Number: KT-TF14

Introduction

Looking for a tube furnace for high-temperature applications? Our 1400℃ Tube Furnace with Alumina Tube is perfect for research and industrial use.

Learn More

Furnace model	KT-TF14	KT-TF14 Pro
Temperature controller	Digital PID controller	Touch screen PID controller
Multi program preset	no	yes
Power failure restarting	no	yes
Max. temperature	1400℃	
Constant work temperature	1300℃	
Furnace tube material	High grade Al2O3 alumina	
Furnace tube diameter	30 / 40 / 60 / 80 / 100 mm	
Heating zone length	300 / 450 / 600 / 800 mm	
Heating zone quantity	1-10 zones	
Vacuum sealing solution	SS 304 flange with O ring	
Rated vacuum pressure	0.001Pa/10E5 torr	
Rated positive pressure	0.02Mpa/150 torr	
Chamber material	Japan Al2O3 alumina fiberr	
Heating element	Cr2Al2Mo2 wire coil	
Heating rate	0-10℃/min	
Temperature sensor	S type thermal couple	
Temperature control accuracy	±1℃	
Temperature uniformity	±5℃	
Electric power supply	AC110-220V,50/60HZ	

Other Al2O3 alumina tube size and heating zone length can be customized

No.	Description	Quantity
1	Furnace	1
2	Alumina tube	1
3	Vacuum flange	2
4	Tube thermal block	2

Furnace model	KT-TF14	KT-TF14 Pro
5	Tube thermal block hook	1
6	Heat resistant glove	1
7	Operation manual	1

1700°C Tube Furnace With Alumina Tube

Item Number: KT-TF17

Introduction

Looking for a high-temperature tube furnace? Check out our 1700℃ Tube Furnace with Alumina Tube. Perfect for research and industrial applications up to 1700C.

Learn More

Furnace model	KT-TF17	KT-TF17 Pro
Temperature controller	Digital PID controller	Touch screen PID controller
Multi program preset	no	yes
Power failure restarting	no	yes
Max. temperature	1700℃	
Constant work temperature	1650℃	
Furnace tube material	High grade Al2O3 alumina	
Furnace tube diameter	30 / 40 / 60 / 80 / 100 mm	
Heating zone length	300 / 450 / 600 / 800 mm	
Heating zone quantity	1-10 zones	
Vacuum sealing solution	SS 304 flange with O ring	
Rated vacuum pressure	0.001Pa/10E5 torr	
Rated positive pressure	0.02Mpa/150 torr	
Chamber material	Japan Al2O3 alumina fiber	
Heating element	Cr2Al2Mo2 wire coil	
Heating rate	0-10℃/min	
Temperature sensor	B type Thermal couple	
Temperature control accuracy		±1℃
Temperature uniformity		±5℃
Electric power supply	AC110-220V,50/60HZ	
Other Al2O3 alumina tube size and heating zone length can be customized		

No.	Description	Quantity
1	Furnace	1
2	Alumina tube	1
3	Vacuum flange	2

4	Tube thermal block	2
5	Tube thermal block hook	1
6	Heat resistant glove	1
7	Operation manual	1

Multi Zone Tube Furnace

Item Number: KT-MTF

Introduction

Experience precise, efficient thermal testing with our Multi Zone Tube Furnace. Independent heating zones and temperature sensors allow for controlled high-temperature gradient heating fields. Order now for advanced thermal analysis!

Learn More

Furnace model	KT-MTF	KT-MTF Pro
Temperature controller	Digital PID controller	Touch screen PID controller
Multi program preset	no	yes
Power failure restarting	no	yes
Max. temperature	1700℃	
Constant work temperature	1650℃	
Furnace tube material	High grade Quartz/ Al2O3 alumina	
Furnace tube diameter	30 / 40 / 60 / 80 / 100 / 150 / 230 mm	
Heating zone length	300 / 450 / 600 / 800 mm	
Heating zone quantity	1-10 zones	
Vacuum sealing solution	SS 304 flange with O ring	
Rated vacuum pressure	0.001Pa/10E5 torr	
Rated positive pressure	0.02Mpa/150 torr	
Chamber material	Japan Al2O3 alumina fiber	
Heating element	Cr2Al2Mo2 wire coil	
Thermal couple	K /S/B type	
Temperature control accuracy	±1℃	
Temperature uniformity	±5℃	
Electric power supply	AC110-220V,50/60HZ	

Other Al2O3 alumina tube size and heating zone length can be customized

No.	Description	Quantity
1	Furnace	1
2	Alumina tube	1
3	Vacuum flange	2
4	Tube thermal block	2
5	Tube thermal block hook	1

6	Heat resistant glove	1
7	Operation manual	1

High Pressure Tube Furnace

Item Number: KT-PTF

Introduction

KT-PTF High Pressure Tube Furnace: Compact split tube furnace with strong positive pressure resistance. Working temp up to 1100°C and pressure up to 15Mpa. Also works under controller atmosphere or high vacuum.

Learn More

Furnace model	KT-PTF	KT-PTF Pro
Temperature controller	Digital PID controller	Touch screen PID controller
Multi program preset	no	yes
Power failure restarting	no	yes
Max. temperature	1100℃	
Constant work temperature	1000℃	
Furnace tube material	Super nickel based alloy	
Furnace tube diameter	50 / 60 / 80 / 100 mm	
Heating zone length	300 / 450 / 600 / 800 mm	
Heating zone quantity	1-10 zones	
Vacuum sealing solution	SS 304 flange with solid copper seal ring	
Rated vacuum pressure	0.001Pa/10E5 torr	
Rated positive pressure	15 Mpa	
Chamber material	Japan Al2O3 alumina fiber	
Heating element	Cr2Al2Mo2 wire coil	
Temperature sensor	Build in K type Thermal couple	
Temperature control accuracy	±1℃	
Temperature uniformity	±5℃	
Electric power supply	AC110-220V,50/60HZ	

Other super nickel based alloy tube size and heating zone length can be customized

No.	Description	Quantity
1	Furnace	1
2	Alumina tube	1
3	Vacuum flange	2
4	Tube thermal block	2
5	Tube thermal block hook	1

6	Heat resistant glove	1
7	Operation manual	1

Rtp Heating Tube Furnace

Item Number: KT-RTP

Introduction

Get lightning-fast heating with our RTP Rapid Heating Tube Furnace. Designed for precise, high-speed heating and cooling with convenient sliding rail and TFT touch screen controller. Order now for ideal thermal processing!

Learn More

Furnace model	KT-RTP	KT-RTP Pro
Temperature controller	Digital PID controller	Touch screen PID controller
Multi program preset	no	yes
Power failure restarting	no	yes
Max. temperature	1100℃	
Constant work temperature	1000℃	
Furnace tube material	High grade Quartz/ Al2O3 alumina	
Furnace tube diameter	50 / 60 / 80 / 100 mm	
Heating zone length	300 / 450 / 600 / 800 mm	
Vacuum sealing solution	SS 304 flange with solid copper seal ring	
Rated vacuum pressure	0.001Pa/10E5 torr	
Chamber material	Japan Al2O3 alumina fiber	
Heating element	Cr2Al2Mo2 wire coil	
Temperature sensor	Build in K type Thermal couple	
Temperature control accuracy	±1℃	
Electric power supply	AC110-220V,50/60HZ	
Other furnace tube size and heating zone length can be customized		

No.	Description	Quantity
1	Furnace	1
2	Alumina tube	1
3	Vacuum flange	2
4	Tube thermal block	2
5	Tube thermal block hook	1
6	Heat resistant glove	1
7	Operation manual	1

Vertical Tube Furnace

Item Number: KT-VTF

Introduction

Elevate your experiments with our Vertical Tube Furnace. Versatile design allows for operation under various environments and heat treatment applications. Order now for precise results!

Learn More

Furnace model	KT-VTF	KT-VTF PRO
Temperature controller	Digital PID controller	Touch screen PID controller
Multi program preset	no	yes
Power failure restarting	no	yes
Max. temperature	1800℃	
Furnace tube material	High grade Quartz/ Al2O3 alumina	
Furnace tube diameter	50 / 60 / 80 / 100 mm	
Heating zone length	300 / 450 / 600 / 800 mm	
Vacuum sealing solution	SS 304 flange with solid copper seal ring	
Rated vacuum pressure	0.001Pa/10E5 torr	
Chamber material	Japan Al2O3 alumina fiber	
Heating element	Cr2Al2Mo2 wire coil/SiC/MoSi2	
Thermal couple	K /S/B type	
Temperature control accuracy	±1℃	
Electric power supply	AC110-220V,50/60HZ	

Other furnace tube size and heating zone length can be customized

No.	Description	Quantity
1	Furnace	1
2	Alumina tube	1
3	Vacuum flange	2
4	Tube thermal block	2
5	Tube thermal block hook	1
6	Heat resistant glove	1
7	Operation manual	1

Split Chamber Cvd Tube Furnace With Vacuum Station Cvd Machine

Item Number: KT-CTF12

Introduction

Efficient split chamber CVD furnace with vacuum station for intuitive sample checking and quick cooling. Up to 1200℃ max temperature with accurate MFC mass flowmeter control.

Learn More

Furnace model	KT-CTF12-60
Max. temperature	1200℃
Constant work temperature	1100℃
Furnace tube material	High purity quartz
Furnace tube diameter	60mm
Heating zone length	1x450mm
Chamber material	Japan alumina fiber
Heating element	Cr2Al2Mo2 wire coil
Heating rate	0-20℃/min
Thermal couple	Build in K type
Temperature controller	Digital PID controller/Touch screen PID controller
Temperature control accuracy	±1℃
Sliding distance	600mm
Gas precise control unit	
Flow meter	MFC mass flow meter
Gas channels	4 channels
Flow rate	MFC1: 0-5SCCM O2 MFC2: 0-20SCMCH4 MFC3: 0- 100SCCM H2 MFC4: 0-500 SCCM N2
Linearity	±0.5% F.S.
Repeatability	±0.2% F.S.
Pipe line and valve	Stainless steel
Maximum Operating Pressure	0.45MPa
Flow meter controller	Digital Knob controller/Touch screen controller
Standard vacuum unit (Optional)	
Vacuum pump	Rotary vane vacuum pump

Pump flow rate	4L/S
Vacuum suction port	KF25
Vacuum gauge	Pirani/Resistance silicon vacuum gauge
Rated vacuum pressure	10Pa
High vacuum unit(Optional)	
Vacuum pump	Rotary vane pump+Molecular pump
Pump flow rate	4L/S+110L/S
Vacuum suction port	KF25
Vacuum gauge	Compound vacuum gauge
Rated vacuum pressure	6x10-5Pa
Above specifications and setups can be customized	

No.	Description	Quantity
1	Furnace	1
2	Quartz tube	1
3	Vacuum flange	2
4	Tube thermal block	2
5	Tube thermal block hook	1
6	Heat resistant glove	1
7	Precise gas control	1
8	Vacuum unit	1
9	Operation manual	1

Multi Heating Zones Cvd Tube Furnace Cvd Machine

Item Number: KT-CTF14

Introduction

KT-CTF14 Multi Heating Zones CVD Furnace - Precise Temperature Control and Gas Flow for Advanced Applications. Max temp up to 1200℃, 4 channels MFC mass flow meter, and 7" TFT touch screen controller.

Learn More

Furnace model	KT-CTF14-60
Max. temperature	1400℃
Constant work temperature	1300℃
Furnace tube material	High purity Al2O3 tube
Furnace tube diameter	60mm
Heating zone	2x450mm
Chamber material	Alumina polycrystalline fiber
Heating element	Silicon Carbide
Heating rate	0-10℃/min
Thermal couple	S type
Temperature controller	Digital PID controller/Touch screen PID controller
Temperature control accuracy	±1℃
Gas precise control unit	
Flow meter	MFC mass flow meter
Gas channels	4 channels
Flow rate	MFC1: 0-5SCCM O2 MFC2: 0-20SCMCH4 MFC3: 0- 100SCCM H2 MFC4: 0-500 SCCM N2
Linearity	±0.5% F.S.
Repeatability	±0.2% F.S.
Pipe line and valve	Stainless steel
Maximum Operating Pressure	0.45MPa
Flow meter controller	Digital Knob controller/Touch screen controller
Standard vacuum unit(Optional)	
Vacuum pump	Rotary vane vacuum pump
Pump flow rate	4L/S
Vacuum suction port	KF25

Vacuum gauge	Pirani/Resistance silicon vacuum gauge
Rated vacuum pressure	10Pa
High vacuum unit(Optional)	
Vacuum pump	Rotary vane pump+Molecular pump
Pump flow rate	4L/S+110L/S
Vacuum suction port	KF25
Vacuum gauge	Compound vacuum gauge
Rated vacuum pressure	6x10-5Pa

Above specifications and setups can be customized

No.	Description	Quantity
1	Furnace	1
2	Quartz tube	1
3	Vacuum flange	2
4	Tube thermal block	2
5	Tube thermal block hook	1
6	Heat resistant glove	1
7	Precise gas control	1
8	Vacuum unit	1
9	Operation manual	1

Customer Made Versatile Cvd Tube Furnace Cvd Machine

Item Number: KT-CTF16

Introduction

Get your exclusive CVD furnace with KT-CTF16 Customer Made Versatile Furnace. Customizable sliding, rotating, and tilting functions for precise reactions. Order now!

Learn More

Furnace model	KT-CTF16-60
Max. temperature	1600℃
Constant work temperature	1550℃
Furnace tube material	High purity Al2O3 tube
Furnace tube diameter	60mm
Heating zone	3x300mm
Chamber material	Alumina polycrystalline fiber
Heating element	Silicon Carbide
Heating rate	0-10℃/min
Thermal couple	S type
Temperature controller	Digital PID controller/Touch screen PID controller
Temperature control accuracy	±1℃
Gas precise control unit	
Flow meter	MFC mass flow meter
Gas channels	3 channels
Flow rate	MFC1: 0-5SCCM O2 MFC2: 0-20SCMCH4 MFC3: 0- 100SCCM H2 MFC4: 0-500 SCCM N2
Linearity	±0.5% F.S.
Repeatability	±0.2% F.S.
Pipe line and valve	Stainless steel
Maximum Operating Pressure	0.45MPa
Flow meter controller	Digital Knob controller/Touch screen controller
Standard vacuum unit(Optional)	
Vacuum pump	Rotary vane vacuum pump
Pump flow rate	4L/S
Vacuum suction port	KF25

Vacuum gauge	Pirani/Resistance silicon vacuum gauge
Rated vacuum pressure	10Pa
High vacuum unit(Optional)	
Vacuum pump	Rotary vane pump+Molecular pump
Pump flow rate	4L/S+110L/S
Vacuum suction port	KF25
Vacuum gauge	Compound vacuum gauge
Rated vacuum pressure	6x10-5Pa

Above specifications and setups can be customized

No.	Description	Quantity
1	Furnace	1
2	Quartz tube	1
3	Vacuum flange	2
4	Tube thermal block	2
5	Tube thermal block hook	1
6	Heat resistant glove	1
7	Precise gas control	1
8	Vacuum unit	1
9	Operation manual	1

Slide Pecvd Tube Furnace With Liquid Gasifier Pecvd Machine

Item Number: KT-PE12

Introduction

KT-PE12 Slide PECVD System: Wide power range, programmable temp control, fast heating/cooling with sliding system, MFC mass flow control & vacuum pump.

Learn More

Furnace model	KT-PE12-60
Max. temperature	1200℃
Constant work temperature	1100℃
Furnace tube material	High purity quartz
Furnace tube diameter	60mm
Heating zone length	1x450mm
Chamber material	Japan alumina fiber
Heating element	Cr2Al2Mo2 wire coil
Heating rate	0-20℃/min
Thermal couple	Build in K type
Temperature controller	Digital PID controller/Touch screen PID controller
Temperature control accuracy	±1℃
Sliding distance	600mm
RF Plasma unit	
Output Power	5 -500W adjustable with ± 1% stability
RF frequency	13.56 MHz ±0.005% stability
Reflection Power	350W max.
Matching	Automatic
Noise	<50 dB
Cooling	Air cooling.
Gas precise control unit	
Flow meter	MFC mass flow meter
Gas channels	4 channels
Flow rate	MFC1: 0-5SCCM O2 MFC2: 0-20SCMCH4 MFC3: 0- 100SCCM H2 MFC4: 0-500 SCCM N2
Linearity	±0.5% F.S.

Repeatability	±0.2% F.S.
Pipe line and valve	Stainless steel
Maximum Operating Pressure	0.45MPa
Flow meter controller	Digital Knob controller/Touch screen controller
Standard vacuum unit(Optional)	
Vacuum pump	Rotary vane vacuum pump
Pump flow rate	4L/S
Vacuum suction port	KF25
Vacuum gauge	Pirani/Resistance silicon vacuum gauge
Rated vacuum pressure	10Pa
High vacuum unit(Optional)	
Vacuum pump	Rotary vane pump+Molecular pump
Pump flow rate	4L/S+110L/S
Vacuum suction port	KF25
Vacuum gauge	Compound vacuum gauge
Rated vacuum pressure	6x10-5Pa
Above specifications and setups can be customized	

No.	Description	Quantity
1	Furnace	1
2	Quartz tube	1
3	Vacuum flange	2
4	Tube thermal block	2
5	Tube thermal block hook	1
6	Heat resistant glove	1
7	RF plasma source	1
8	Precise gas control	1
9	Vacuum unit	1
10	Operation manual	1

Inclined Rotary Plasma Enhanced Chemical Deposition (Pecvd) Tube Furnace Machine

Item Number: KT-PE16

Introduction

Introducing our inclined rotary PECVD furnace for precise thin film deposition. Enjoy automatic matching source, PID programmable temperature control, and high accuracy MFC mass flowmeter control. Built-in safety features for peace of mind.

Learn More

Furnace model	PE-1600-60
Max. temperature	1600℃
Constant work temperature	1550℃
Furnace tube material	High purity Al2O3 tube
Furnace tube diameter	60mm
Heating zone length	2x300mm
Chamber material	Japan alumina fiber
Heating element	Molybdenum Disilicide
Heating rate	0-10℃/min
Thermal couple	B type
Temperature controller	Digital PID controller/Touch screen PID controller
Temperature control accuracy	±1℃
RF Plasma unit	
Output Power	5 -500W adjustable with ± 1% stability
RF frequency	13.56 MHz ±0.005% stability
Reflection Power	350W max.
Matching	Automatic
Noise	<50 dB
Cooling	Air cooling.
Gas precise control unit	
Flow meter	MFC mass flow meter
Gas channels	4 channels
Flow rate	MFC1: 0-5SCCM O2 MFC2: 0-20SCMCH4 MFC3: 0- 100SCCM H2 MFC4: 0-500 SCCM N2
Linearity	±0.5% F.S.

Repeatability	±0.2% F.S.
Pipe line and valve	Stainless steel
Maximum Operating Pressure	0.45MPa
Flow meter controller	Digital Knob controller/Touch screen controller
Standard vacuum unit(Optional)	
Vacuum pump	Rotary vane vacuum pump
Pump flow rate	4L/S
Vacuum suction port	KF25
Vacuum gauge	Pirani/Resistance silicon vacuum gauge
Rated vacuum pressure	10Pa
High vacuum unit(Optional)	
Vacuum pump	Rotary vane pump+Molecular pump
Pump flow rate	4L/S+110L/S
Vacuum suction port	KF25
Vacuum gauge	Compound vacuum gauge
Rated vacuum pressure	6x10-5Pa
Above specifications and setups can be customized	

No.	Description	Quantity
1	Furnace	1
2	Quartz tube	1
3	Vacuum flange	2
4	Tube thermal block	2
5	Tube thermal block hook	1
6	Heat resistant glove	1
7	RF plasma source	1
8	Precise gas control	1
9	Vacuum unit	1
10	Operation manual	1

Laboratory Vacuum Tilt Rotary Tube Furnace

Item Number: KT-RTF

Introduction

Discover the versatility of Laboratory Rotary Furnace: Ideal for calcination, drying, sintering, and high-temperature reactions. Adjustable rotating and tilting functions for optimal heating. Suitable for vacuum and controlled atmosphere environments. Learn more now!

Learn More

1650*760*1720mm / Weight 300KG		• The furnace tube is made of 310S heat-resistant stainless steel. • PLC centralized control is adopted to simplify operation, and it is equipped with a 7-inch touch screen for real-time display of various data, which is intuitive and clear; • Equipped with an alarm function, which can realize unattended sintering; • It is equipped with a material level monitor to monitor the material condition, and is equipped with a vibrator to facilitate better introduction of materials. • High-purity Al2O3 fiber refractory insulation material has excellent insulation effect and effectively reduces the power consumption of equipment; • Adopt advanced and stable dynamic sealing system to ensure that the equipment can be used in vacuum and atmosphere; • The furnace body can be tilted from -14° (discharging) to 2° (feeding), which is convenient for loading and unloading operations;
Stainless steel auger		
Control System		• Sintering process curve setting: dynamic display of setting curves, multiple process curves can be pre-stored for equipment sintering, and each process curve can be set freely; • Sintering can be scheduled to realize unattended sintering process curve sintering; • Display information such as sintering power and voltage in real time and record sintering data, and can be exported to realize paperless recording; • It can realize remote control and observe equipment status in real time; • Temperature correction: the difference between the main control temperature and the sample temperature, and the nonlinear correction is carried out throughout the sintering process.
Heating element		Mo doped Fe-Cr-Al alloy
gasification outlet		Air outlet flaring design to avoid blockage
Precautions for equipment use		• When the furnace temperature of the equipment is ≥300°C, it is forbidden to open the furnace to avoid injury; • When the equipment is in use, the reading of the absolute pressure gauge should not exceed 0.15MPa to prevent equipment damage caused by excessive pressure; • When used under vacuum, the operating temperature of the equipment shall not exceed 600°C.

Furnace model	KT-RTF12	KT-RTF14	KT-RTF16
Max. temperature	1200℃	1400℃	1600℃
Constant work temperature	1100℃	1300℃	1500℃

Heating rate	0-20℃/min	0-10℃/min	
Furnace tube material	High purity quartz	Al2O3/Si3N4	
Rotary speed	0-20rpm		
Tilting angle	-5-30 degree		
Furnace tube diameter	30 / 40 / 60 / 80 / 100 / 120 / 150 / 230 / 280 mm		
Single heating zone length	300 / 450 / 600 / 800 mm		
Vacuum sealing solution	SS 304 flange with O ring		
Chamber material	Japan alumina fiber		
Heating element	Cr2Al2Mo2 wire coil	SiC	MoSi2
Temperature sensor	K type	S type	B type
Temperature controller	Digital PID controller/Touch screen PID controller		
Temperature control accuracy	±1℃		
Electric power supply	AC110-220V,50/60HZ		
Different tube material and size and heating zone length can be customized			

Split Multi Heating Zone Rotary Tube Furnace

Item Number: KT-MRTF

Introduction

Multi zone rotary furnace for high-precision temperature control with 2-8 independent heating zones. Ideal for lithium ion battery electrode materials and high-temperature reactions. Can work under vacuum and controlled atmosphere.

Learn More

Furnace model	KT-MRTF12	KT-MRTF14	KT-MRTF16
Max. temperature	1200℃	1400℃	1600℃
Constant work temperature	1100℃	1300℃	1500℃
Heating rate	0-20℃/min	0-10℃/min	
Furnace tube material	Quartz/Metal alloys	Al2O3/Si3N4	
Rotary speed	0-20rpm		
Tilting angle	-5-30 degree		
Furnace tube diameter	30 / 40 / 60 / 80 / 100 / 120 / 150 / 230 / 280 mm		
Single heating zone length	300 / 450 / 600 / 800 mm		
Heating zones quantity	2-8 zones		
Vacuum sealing solution	SS 304 flange with O ring		
Chamber material	Japan alumina fiber		
Heating element	Cr2Al2Mo2 wire coil	SiC	MoSi2
Temperature sensor	K type	S type	B type
Temperature controller	Digital PID controller/Touch screen PID controller		
Temperature control accuracy	±1℃		
Electric power supply	AC110-220V,50/60HZ		

Different tube material and size and heating zone length can be customized

Vacuum Sealed Continuous Working Rotary Tube Furnace

Item Number: KT-CRTF

Introduction

Experience efficient material processing with our vacuum-sealed rotary tube furnace. Perfect for experiments or industrial production, equipped with optional features for controlled feeding and optimized results. Order now.

Learn More

Furnace model	KT-CRTF12	KT-CRTF14	KT-CRTF16
Max. temperature	1200℃	1400℃	1600℃
Constant work temperature	1100℃	1300℃	1500℃
Heating rate	0-20℃/min	0-10℃/min	
Furnace tube material	Quartz/Metal alloys	Al2O3/Si3N4	
Rotary speed	0-20rpm		
Tilting angle	-5-30 degree		
Furnace tube diameter	30 / 40 / 60 / 80 / 100 / 120 / 150 / 230 / 280 mm		
Single heating zone length	300 / 450 / 600 / 800mm		
Vacuum sealing solution	SS 304 flange with O ring		
Chamber material	Japan alumina fiber		
Heating element	Cr2Al2Mo2 wire coil	SiC	MoSi2
Temperature sensor	K type	S type	B type
Temperature controller	Digital PID controller/Touch screen PID controller		
Temperature control accuracy	±1℃		
Electric power supply	AC110-220V,50/60HZ		
Different tube material and size and heating zone length can be customized			

Vacuum Tube Hot Press Furnace

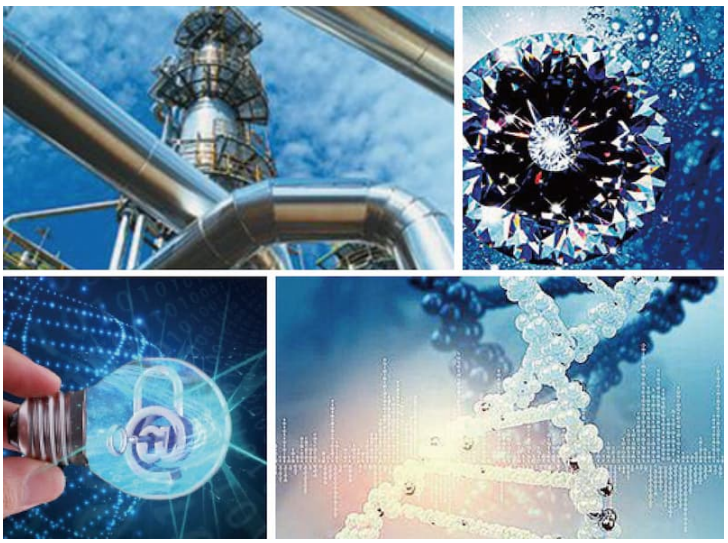
Item Number: KT-VTP

Introduction

Reduce forming pressure & shorten sintering time with Vacuum Tube Hot Press Furnace for high-density, fine-grain materials. Ideal for refractory metals.

Learn More

Hydraulic press	Working pressure: 0-30Mpa Travel distance: <50mm Pressure stability: ≤1MPa/10min Pressure meter: Digital pressure gauge Drive solution: Electric drive with standby manual drive
Vertical split furnace	Working temperature: ≤1150℃ Heating element:Ni-Cr-Al resistance wire with dipped Mo Heating speed: <15℃/min Hot zone length: 300mm Constant temperature zone: 100mm Controller: Touch screen with PID thermal controller Rated power: 2200W
Vacuum furnace tube	Tube material: Quartz tube(Optional Alumina/Nickel alloy) Tube diameter: 100mm(Optional 120/160mm) Vacuum sealing: SS flange with silicon O ring Flange cooling method: Inter layer water circulating cooling
Graphite pressing die	Die material: High purity graphite (Graphite must work under vacuum to prevent oxidation) Pressure rod diameter: 87mm Sleeve die size: 55mm OD/ 50mm Height Die inserts: OD22.8 x ID20.8 Pushing Rod: 12.7mmOD/40mm Height Other sizes die can be customer made
Vacuum pump setup	Rotary vane pump vacuum is up to 10-2 torr Turbo pump station vacuum is up to 10-4 torr
Electric power supply	AC110-220V, 50/60HZ



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