KINTEK
Solution for researching

KINTEK SOLUTION

Atmosphere 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.

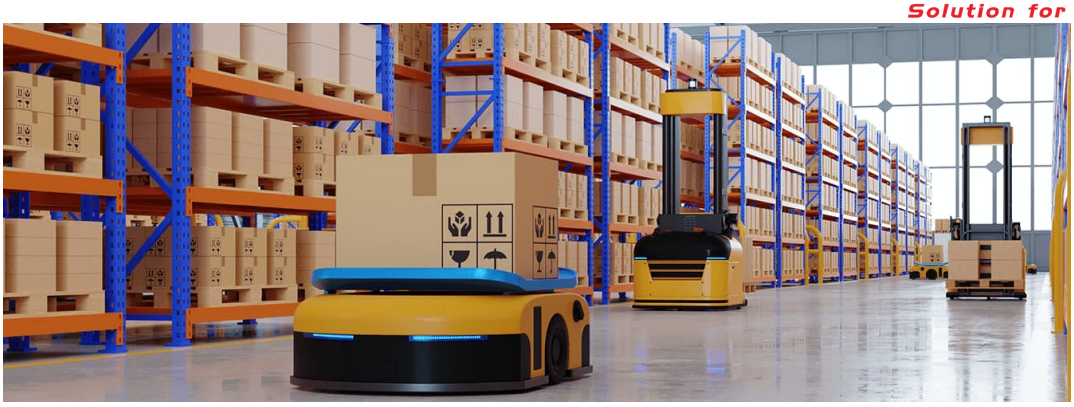
5. Internal optimization

- 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 Controlled Atmosphere Furnace

Item Number: KT-12A

Introduction

Discover our KT-12A Pro Controlled atmosphere furnace - high precision, heavy duty vacuum chamber, versatile smart touch screen controller, and excellent temperature uniformity up to 1200C. Ideal for both laboratory and industrial application.

Learn More

Furnace model	KT-12A
Max. temperature	1200℃
Constant work temperature	1100℃
Vacuum pressure	0.1Mpa
Vacuum valve	Needle valve
Furnace tube material	High purity quartz
Chamber material	Japan alumina fiber
Heating element	Cr2Al2Mo2 wire coil
Heating rate	0-30℃/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

Standard Chamber Sizes Stocks			
Chamber size (mm)	**Effective volume (L)**	**Chamber size (mm)**	**Effective volume (L)**
100x100x100	1	300x300x400	36
150x150x150	3.4	400x400x400	64
150x150x200	4.5	500x500x500	125
200x200x200	8	600x600x600	216
200x200x300	12	800x800x800	512

Customer design sizes and volume is accepted

No.	Description	Quantity
1	Furnace	1
2	Thermal block	1
3	Crucible tong	1

4	Heat resistant glove	1
5	Operation manual	1

1400°C Controlled Atmosphere Furnace

Item Number: KT-14A

Introduction

Achieve precise heat treatment with KT-14A controlled atmosphere furnace. Vacuum sealed with a smart controller, it's ideal for lab and industrial use up to 1400℃.

Learn More

Furnace model	KT-14A
Max. temperature	1400℃
Constant work temperature	1300℃
Vacuum pressure	0.1Mpa
Vacuum valve	Needle valve
Chamber material	Japan alumina fiber
Heating element	Silicon Carbide
Heating rate	0-20℃/min
Temperature sensor	S 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

Standard Chamber Sizes Stocks			
Chamber size (mm)	**Effective volume (L)**	**Chamber size (mm)**	**Effective volume (L)**
100x100x100	1	300x300x400	36
150x150x150	3.4	400x400x400	64
150x150x200	4.5	500x500x500	125
200x200x200	8	600x600x600	216
200x200x300	12	800x800x800	512
Customer design sizes and volume is accepted			

No.	Description	Quantity
1	Furnace	1
2	Thermal block	1
3	Crucible tong	1
4	Heat resistant glove	1

1700°C Controlled Atmosphere Furnace

Item Number: KT-17A

Introduction

KT-17A Controlled atmosphere furnace: 1700℃ heating, vacuum sealing technology, PID temperature control, and versatile TFT smart touch screen controller for laboratory and industrial use.

Learn More

Furnace model	KT-17A
Max. temperature	1700℃
Constant work temperature	1600℃
Vacuum pressure	0.1Mpa
Vacuum valve	Needle valve
Chamber material	Japan alumina fiber
Heating element	Molybdenum Disilicide
Heating rate	0-20℃/min
Temperature sensor	B 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

Standard Chamber Sizes Stocks			
Chamber size (mm)	**Effective volume (L)**	**Chamber size (mm)**	**Effective volume (L)**
100x100x100	1	300x300x400	36
120x120x130	2	400x400x400	64
150x150x200	4.5	500x500x500	125
200x200x200	8	600x600x600	216
200x200x300	12	800x800x800	512
Customer design sizes and volume is accepted			

No.	Description	Quantity
1	Furnace	1
2	Thermal block	1
3	Crucible tong	1
4	Heat resistant glove	1

Hydrogen Atmosphere Furnace

Item Number: KT-16AH

Introduction

KT-AH Hydrogen atmosphere furnace - induction gas furnace for sintering/annealing with built-in safety features, dual housing design, and energy-saving efficiency. Ideal for lab and industrial use.

Learn More

Furnace model	KT-16AH
Max. temperature	1600℃
Constant work temperature	1500℃
Vacuum pressure	0.1Mpa
Vacuum valve	Needle valve
Chamber material	Japan alumina fiber
Heating element	Molybdenum wire
Heating rate	0-20℃/min
Temperature sensor	B type thermal couple
Temperature controller	Touch screen PID controller
Temperature control accuracy	±1℃
Temperature uniformity	±5℃
Electric power supply	AC110-220V,50/60HZ

Standard Chamber Sizes Stocks

Chamber size (mm)	Effective volume (L)	Chamber size (mm)	Effective volume (L)
150x150x200	4.5	300x300x400	36
200x200x300	12	400x400x400	64

Customer design sizes and volume is accepted

Standard Temperature controlling	• PID automatic control via SCR (Silicon Controlled Rectifier) power control with phase angle fired, current limiting resistor. • 51 programmable segments for precise control of heating rate, cooling rate and dwell time. • Built in PID Auto-Tune function with overheating & broken Thermocouple broken protection. • Over temperature protection and alarm allows for operation without attendant
Optional of Temperature controlling	• Software (Furnace can be operated by PC by installing a control software) • Touch screen temperature controller
Furnace structure	Double layer steel casing with dual cooling fan, surface temperature below 60℃

Furnace door	• Power cutting off when furnace door open
Warranty	• For this hydrogen furnace, One year limited warranty with life time support. (Consumable parts such as heating elements and crucibles are not covered by the warranty, please order the replacement at related products) • ATTENTION: Any damages caused by the use of corrosive and acidic gases are not under the coverage of One Year Limited Warranty.
Hydrogen Furnace Using Attentions	• Cooling rate shall also not exceed 10℃/min. • Toxic or explosive gases are not recommended for use with this furnace without necessary safety controls and supervision. • Small cracks may appear on the surface of the refractory ceramics over extended use. This is a normal occurrence and the cracks may be repaired with alumina coating. • Refractory door block must be inserted before closing door.

Mesh Belt Controlled Atmosphere Furnace

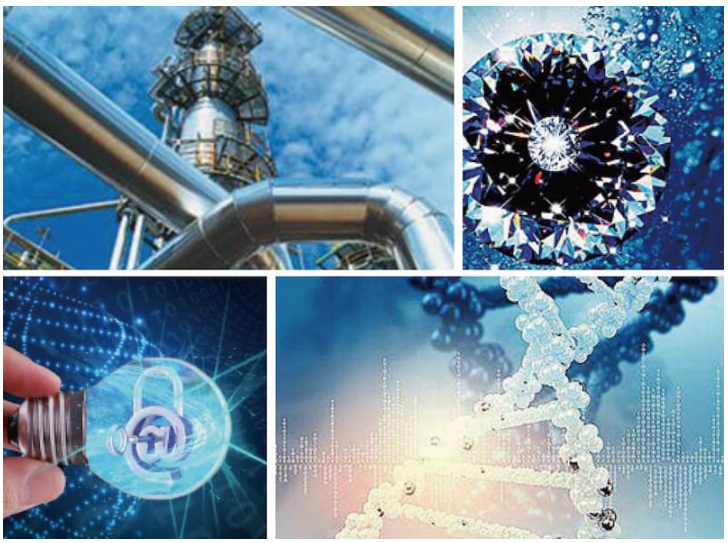
Item Number: KT-MB

Introduction

Discover our KT-MB mesh belt sintering furnace - perfect for high-temperature sintering of electronic components & glass insulators. Available for open air or controlled atmosphere environments.

Learn More

Model	KT-MB20	KT-MB30	KT-MB35	KT-MB60	KT-MB65
Working temperature	RT-1000℃				
Control accuracy	±1℃				
Heating element	FEC heater				
Mesh belt width	200mm	300mm	350mm	600mm	650mm
Effective height	50mm	60mm	80mm	80mm	80mm
Hot zone quantity	7	7	8	9	12
Overall length	7200mm	7200mm	7200mm	7650mm	13380mm
Customer design sizes and requirement is accepted					



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