



KINTEK SOLUTION

## Rotary Tube Furnace Catalog

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# KINTEK SOLUTION

## COMPANY PROFILE

### >>> About Us

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

In the past 20 years, we earned rich experiences in this researching equipment field, we are capable to supply both the equipment and solution according to customer's needs and realities, we have also developed lots of customer tailored equipment according to a specific working purpose, and we have lots of successful projects in many universities and institutes from different countries, like Asia, Europe, North and South America, Australia and New Zealand, Middle East, and Africa.

Profession, quick response, hard working, and sincerity is a remarkable label of our team members working attitude, which earn us a sound reputation among our clients.

We are here and ready to service our clients from different countries and regions, and share the most efficient and reliable technology together!



# 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!

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<p>1650*760*1720mm / Weight 300KG</p>	<ul style="list-style-type: none"> <li>• The furnace tube is made of 310S heat-resistant stainless steel.</li> <li>• 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;</li> <li>• Equipped with an alarm function, which can realize unattended sintering;</li> <li>• 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.</li> <li>• High-purity Al<sub>2</sub>O<sub>3</sub> fiber refractory insulation material has excellent insulation effect and effectively reduces the power consumption of equipment;</li> <li>• Adopt advanced and stable dynamic sealing system to ensure that the equipment can be used in vacuum and atmosphere;</li> <li>• The furnace body can be tilted from -14° (discharging) to 2° (feeding), which is convenient for loading and unloading operations;</li> </ul>
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Stainless steel auger

<p>Control System</p>	<ul style="list-style-type: none"> <li>• 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;</li> <li>• Sintering can be scheduled to realize unattended sintering process curve sintering;</li> <li>• Display information such as sintering power and voltage in real time and record sintering data, and can be exported to realize paperless recording;</li> <li>• It can realize remote control and observe equipment status in real time;</li> <li>• Temperature correction: the difference between the main control temperature and the sample temperature, and the nonlinear correction is carried out throughout the sintering process.</li> </ul>
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Heating element

Mo doped Fe-Cr-Al alloy

<p>gasification outlet</p>	<p>Air outlet flaring design to avoid blockage</p>
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Precautions for equipment use

- When the furnace temperature of the equipment is  $\geq 300^{\circ}\text{C}$ , 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  $600^{\circ}\text{C}$ .

<p>Furnace model</p>	<p>KT-RTF12</p>	<p>KT-RTF14</p>	<p>KT-RTF16</p>
<p>Max. temperature</p>	<p>1200°C</p>	<p>1400°C</p>	<p>1600°C</p>
<p>Constant work temperature</p>	<p>1100°C</p>	<p>1300°C</p>	<p>1500°C</p>

Heating rate	0-20°C/min	0-10°C/min
Furnace tube material	High purity quartz	Al <sub>2</sub> O <sub>3</sub> /Si <sub>3</sub> N <sub>4</sub>
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	Cr <sub>2</sub> Al <sub>2</sub> Mo <sub>2</sub> wire coil	SiC    MoSi <sub>2</sub>
Temperature sensor	K type	S type    B type
Temperature controller	Digital PID controller/Touch screen PID controller	
Temperature control accuracy	±1°C	
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°C	1400°C	1600°C
Constant work temperature	1100°C	1300°C	1500°C
Heating rate	0-20°C/min	0-10°C/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°C		
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°C	1400°C	1600°C
Constant work temperature	1100°C	1300°C	1500°C
Heating rate	0-20°C/min	0-10°C/min	
Furnace tube material	Quartz/Metal alloys	Al <sub>2</sub> O <sub>3</sub> /Si <sub>3</sub> N <sub>4</sub>	
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	Cr <sub>2</sub> Al <sub>2</sub> Mo <sub>2</sub> wire coil	SiC	MoSi <sub>2</sub>
Temperature sensor	K type	S type	B type
Temperature controller	Digital PID controller/Touch screen PID controller		
Temperature control accuracy	±1°C		
Electric power supply	AC110-220V,50/60HZ		
Different tube material and size and heating zone length can be customized			



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