



KINTEK SOLUTION

## Rotary 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

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!



# 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°C max temperature with accurate MFC mass flowmeter control.

[Learn More](#)

Furnace model	KT-CTF12-60
Max. temperature	1200°C
Constant work temperature	1100°C
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°C/min
Thermal couple	Build in K type
Temperature controller	Digital PID controller/Touch screen PID controller
Temperature control accuracy	±1°C
Sliding distance	600mm
<b>Gas precise control unit</b>	
Flow meter	MFC mass flow meter
Gas channels	4 channels
Flow rate	MFC1: 0-5SCCM O2 MFC2: 0-20SCCMCH4 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
<b>Standard vacuum unit (Optional)</b>	
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 <sup>-5</sup> Pa

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

# 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](#)

<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.

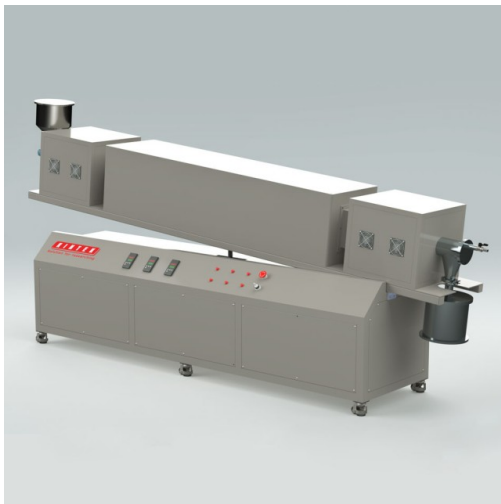
[Learn More](#)

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	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°C		
Electric power supply	AC110-220V,50/60HZ		
Different tube material and size and heating zone length can be customized			



# Electric Activated Carbon Regeneration Furnace

Item Number: KT-CRF



## Introduction

Revitalize your activated carbon with KinTek's Electric Regeneration Furnace. Achieve efficient and cost-effective regeneration with our highly automated rotary kiln and intelligent thermal controller.

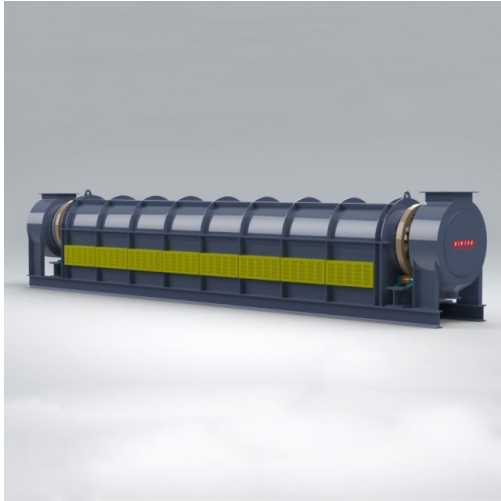
[Learn More](#)

Constant work temperature	
Rotary drum speed	0-5rpm
Rotary drum angle	0-6 degree
Chamber insulation material	Polycrystalline ceramic fiber
Temperature controller	Touch screen PID controller
Heating element	Silicon Carbide (SiC)
Temperature sensor	Armed K type thermal couple
Electric power supply	AC220-440V,50/60HZ

Model	Capacity (kg/h)	Rated power (kw)	Dimension (m)
KT-CRF60	60	63	7.0*1.6*2.2
KT-CRF100	100	103	7.0*1.6*2.2
KT-CRF200	200	205.5	8.0*1.8*2.2
KT-CRF300	300	305.5	8.0*1.8*2.2
KT-CRF500	500	507.5	9.0*2.0*2.2
KT-CRF800	800	811	10.0*2.2*2.6
KT-CRF1000	1000	1011	11.0*2.2*2.6

# Electric Rotary Kiln Pyrolysis Furnace Plant Pyrolysis Machine Electric Rotary Calciner

Item Number: KT-RKTF



## Introduction

Electric rotary kiln - precisely controlled, it's ideal for calcination and drying of materials like lithium cobalate, rare earths, and non-ferrous metals.

[Learn More](#)

Model	KT-RKTF60	KT-RKTF80	KT-RKTF100	KT-RKTF120
Tube diameter	0.6m	0.8m	1m	1.2m
Tube length	7m	9m	10m	12m
Tube material	Nickel based alloy			
Heating zones	4 independent hot zones			
Work temperature	< 1100°C			
Rotary drum angle	0-3 degree			
Insulation material	Polycrystalline ceramic fiber			
Temperature controller	Touch screen PID controller with PLC			
Heating element	Silicon Carbide (SiC)			
Temperature sensor	Armed K type thermal couple			
Electric power supply	AC220-440V,50/60HZ			

# Continuous Working Electric Heating Pyrolysis Furnace Plant

Item Number: KT-RFTF



## Introduction

Efficiently calcine and dry bulk powder and lump fluid materials with an electric heating rotary furnace. Ideal for processing lithium ion battery materials and more.

[Learn More](#)

Model	Furnace size	Temperature	Heat zones	Power
KT-RFTF2020	Φ200×2000mm	950°C	3	30kw
KT-RFTF3030	Φ300×3000mm	950°C	6	54kw
KT-RFTF4050	Φ400×5000mm	950°C	6	96kw
KT-RFTF5060	Φ500×6000mm	950°C	6	168kw
KT-RFTF6080	Φ600×8000mm	950°C	9	234kw
KT-RFTF8090	Φ800×9000mm	950°C	9	342kw
KT-RFTF1211	Φ1200×11000	950°C	9	648kw

# Rotary Biomass Pyrolysis Furnace Plant

Item Number: RBPF



## Introduction

Learn about Rotary Biomass Pyrolysis Furnaces & how they decompose organic material at high temps without oxygen. Use for biofuels, waste processing, chemicals & more.

[Learn More](#)



## Kintek Solution

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