

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"> • 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;
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Stainless steel auger

<p>Control System</p>		<ul style="list-style-type: none"> • 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.
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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°C .

Furnace model	KT-RTF12	KT-RTF14	KT-RTF16
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	High purity quartz	Al ₂ O ₃ /Si ₃ N ₄	
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 ₂ Al ₂ Mo ₂ wire coil	SiC	MoSi ₂
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			