

Laboratory Vacuum Tilt Rotary Tube Furnace Rotating 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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| 1650*760*1720mm / Weight 300KG | The furnace due is indue of 3103 hear-resistances stated. 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 0.01MPa to prevent equipment damage caused by excessive pressure; |
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| 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 | 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 | | | | |
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Different tube material and size and heating zone length can be customized