



青岛创梦仪器有限公司

Qingdao ChuangMeng Instrument Co., Ltd.

滚子加热炉

Portable Roller Oven

Model: 1500

使用手册

Instruction Manual

版本 1.0

Version 1.0

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请你仔细阅读《使用手册》，正确掌握本产品的安装和使用方法。阅读后请将本《使用手册》妥善保管，以备今后进行检修和维护时使用。

Carefully read this User Manual to learn how to install and use the product correctly. After reading, properly keep the User Manual as a reference for future maintenance and repair.

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一、概述

创梦仪器生产的便携式滚子加热炉配以进口精密控制器，采用最新的微机智能控制技术，直接设定，数字显示，并可进行偏差指示。该机运转平稳、噪音小、精度高、工作范围大、自动化程度高、操作简单、坚固耐用、维修保养方便。

The portable roller heating furnace produced by Chuangmeng Instrument is equipped with an imported precision controller and adopts the latest microcomputer intelligent control technology. It is directly set, digitally displayed, and can provide deviation indication. The machine runs smoothly, with low noise, high precision, wide working range, high degree of automation, simple operation, sturdy and durable, and easy maintenance.

二、型号及规格 Model and specifications

型号 Model	名称 Name	配置 Configuration
1500	便携式滚子加热炉 Portable Roller Oven	陈化釜 Aging cell



三、技术参数 Parameter

名称 Name	技术参数 Parameter
电源 Power Supply	220V ±10% 50/60Hz
输入功率 Input Power	700W
加热功率 Heating Power	500W
温度范围 Temperature Range	50~180℃
滚子转速 Roller Speed	92 ±5r/min
工作面积 Working Area	300×260×220mm
外形尺寸 External Dimensions	530×340×480mm

四、结构与原理 Structure and Principle

(一) 组成

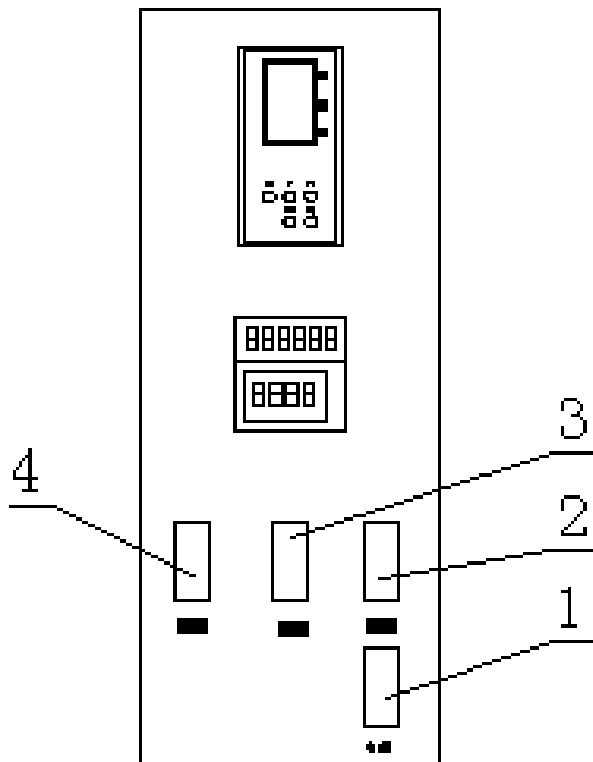
- 1、箱体：采用钢架结构、硅酸铝保温层、不锈钢外壳，坚固耐用。
- 2、滚筒：采用优质金属材料滚筒和框架，重量轻、转动平稳。
- 3、加热控制：采用PID智能控制。可设定试验时间，自动报警。
- 4、动力系统：由减速电机输出，由链轮带动三根滚子转动。传动平稳可靠。

1. Box body: Made of steel frame structure, aluminum silicate insulation layer, stainless steel shell, sturdy and durable.

2. Drum: Made of high-quality metal material drum and frame, it is lightweight and rotates smoothly.

3. Heating control: PID intelligent control is adopted. The test time can be set and an automatic alarm can be triggered.

4. Power system: It is output by a reduction motor and driven by a sprocket to rotate three rollers. The transmission is smooth and reliable.



电器控制面版示意图

序号	名称 Name	序号	名称 Name
1	电源开关 Power Switch	3	加热开关 Heating Switch
2	计时开关 Time Switch	4	电机开关 Motor Switch

(二) 工作原理 Principle

工作原理和性能完全根据美国 API 标准设计。模拟钻井液在井下环行空间内缓慢循环的速度，研究其加热滚动中的特性。

The working principle and performance are fully designed according to American API standards. Simulate the slow circulation speed of drilling fluid in the downhole circulation space and study its heating and rolling characteristics.



五、仪器的操作

1、确认电压相符，电源可靠接地。

2、接通电源，打开电源开关。温控器显示窗上方显示当前加热炉内温度，下方为设置温度。启动电机开关，电机带动炉内滚筒转动，可进行样品的搅拌。使电机空转数分钟，声音、转速正常。准备工作结束，即可进行正常工作。

3、温度设定：打开加热键，窗口上方显示滚子炉内实际温度。按动温控器的“∧、∨”键，设定窗口下方所需的控制温度。滚子炉最高工作温度为 180℃。当温度接近设定温度时，系统进入自动恒温控制状态。

警告：设置键“<<PF”“○”“□”非本厂技术人员严禁触碰。

4、定时设定：打开计时器下方盖子，按动键“+”或“-”设置定时时间（“H”为小时、“M”为分钟、“S”为秒），启动定时开关，到达设置时间机器自动停止加热。

1. Confirm that the voltage matches and the power supply is reliably grounded.

2. Connect the power and turn on the power switch. The current temperature inside the heating furnace is displayed above the temperature controller display window, and the set temperature is displayed below. Start the motor switch, and the motor drives the drum inside the furnace to rotate, allowing for sample mixing. Make the motor idle for minutes, and the sound and speed are normal. After the preparation work is completed, normal work can proceed.

3. Temperature setting: Turn on the heating button, and the actual temperature inside the roller furnace will be displayed above the window.



Press the "∧, ∨" keys on the thermostat to set the desired control temperature at the bottom of the window. The maximum working temperature of the roller furnace is 180 °C. When the temperature approaches the set temperature, the system enters the automatic constant temperature control state.

Warning: Setting keys "<<PF" "" "" are strictly prohibited for non factory technicians to touch.

4. Timer setting: Open the cover under the timer, press the "+" or "-" keys to set the timer time ("H" for hours, "M" for minutes, "S" for seconds), start the timer switch, and the machine will automatically stop heating when the set time is reached.

六、维护与保养 Maintenance and upkeep

1、移动或保养仪器时。要轻拿、轻放，以免造成部件变形影响精度和使用。

2、每次使用完毕后，应及时清理滚子炉内腔，放置干燥环境内。

3、定期给链轮、链条加润滑油。

1. When moving or maintaining instruments. Handle with care to avoid deformation of components that may affect accuracy and usability.

2. After each use, the inner cavity of the roller furnace should be cleaned promptly and placed in a dry environment.

3. Regularly lubricate the sprocket and chain.



七、故障的判定与排除 Determination and elimination of faults

故障 Fault	原因 Reason	维修方法 Maintenance Method
接通电源，电机转动，滚筒不转 Connect the power, the motor rotates, but the drum does not rotate	①链轮与轴连接的紧定螺钉松动 ②链条与链轮脱开 ① The fastening screw connecting the sprocket and shaft is loose ② Chain and sprocket disconnect	①将所有链轮与轴连接的紧定螺钉拧紧 ②将脱开的链条重新按装于链轮上 ① Tighten all the fastening screws connecting the sprockets to the shaft ② Reinstall the detached chain onto the sprocket
接通电源，仪器无电 Connect the power supply, but the instrument has no power	1、电源插头接触不良 2、保险故障 1. Poor contact of power plug 2. Insurance malfunction	①检查电源插头是否牢固 ② 更换保险 1、Check if the power plug is secure 2、Replace insurance

八、一年备件（选购）One year spare parts (optional)

编号	名称	单位	数量	备注
1	链条 chain	个	3	
2	链轮 chain	个	10	
3	石墨轴承 Graphite bearings	个	20	



青岛创梦仪器有限公司 装箱单

Qingdao Chuangmeng Instrument Co., Ltd. Packing list

生产企业：青岛创梦仪器有限公司

Manufacturing enterprise: Qingdao Chuangmeng Instrument Co.,Ltd.

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Production address: No. 3 Xinghai Road, Liuting Street, Chengyang District, Qingdao

主机型号：

Model :

出厂编号：

Manufacturing No:

序号 No	编号	名称及规格 Name and specification	数量 Quantity	备注 Remarks
1		主机 Main engine	1	
2		电源线 Power cord	1	
3		使用手册 Instruction Manual	1	
4		合格证 Certificate	1	



产品合格证

Product Quality Certificate

出厂编号:

Manufacturing No:

产品名称: Description:	
产品型号: Model:	
检验标准: Standard:	
生产日期: Date of Manufacture:	
产品编号: Product Code:	
<p>结论: Conclusion:</p> <p>经检验, 青岛创梦仪器有限公司生产的产品符合上述标准的要求。准予出厂。 After inspection, Qingdao Chuangmeng Instrument Co., Ltd The products produced meet the requirements of the above standards. Approved for delivery.</p>	
<p>本企业通过: IS0014004 环境管理体系认证; IS09001:2015 质量管理体系认证; IS018000 职业健康安全管理体系认证质检科;</p> <p style="text-align: right;">QC Department:</p>	