



HIGH-TEMPERATURE ELECTRIC FURNACES

PRECISE & ENERGY CONSERVATION

精密高温节能电炉

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洛阳炬星窑炉有限公司

LUOYANG JUXING KILN CO., LTD.

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Add: No. 1, Xingye 1st Road, Science and Technology Industrial Park, Jianxi District, Luoyang City, Henan Province .

工矿企业产品设备报价单

Quotation sheet for Products and Equipment of Industrial and Mining enterprises
产品名称、商标、型号、厂家、数量、金额、供货时间及数量。

Product name, trademark, model, manufacturer, quantity, amount, supply time and quantity.

产品名称 Product Name	型号 Model	SIZE (mm) L*W*H	Unit	数量 Quantity	交（提）货时间及数量 Estimated completion time of the goods
升降电炉 Lifting electric furnace	GWDL-1600YS	4000*800*800	unit	1	The goods will be dispatched within 40 working days after payment is received

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类别	1600 degrees
参数	
可长期使用温度 Long-term usable temperature	长期使用温度≤1550 度 The long-term operating temperature is ≤1550 degrees
控制范围 Control range	80 至 1700 度 80 to 1700 degrees
炉膛尺寸 Furnace chamber dimensions	4000*800*800 (mm)
装料台 Loading platform	Two
测温元件 Temperature measurement element	热电偶分度号 B, 测温范围 200-1700 度 Thermocouple classification number B, temperature measurement range 200-1700 degrees
控温点 Temperature control point	三个控温点 (左、中、右) Three temperature control points (left, middle, and right)
功率 kw	3 5 0 K W
发热元件装位置 Installation position of the heating element	四周 Around the furnace chamber
控温精度 Temperature control accuracy	±1 度 (集成化电路控制, 无超调现象) ±1 degree (Integrated circuit control, no overshoot phenomenon)
炉温均匀性 Uniformity of furnace temperature	±15 度 (根据炉膛尺寸大小而定) ±15 degrees (depending on the size of the furnace chamber)
升温速率 Heating rate	升温速率可自由调节, 调节范围: 1400 度以下最快升温速率每分钟 10 度以内、 1400 度以上最快升温速率每分钟 5 度以内、 最慢升温速率每小时 1 度 The heating rate can be freely adjusted. The adjustment range is: The fastest heating rate below 1400 degrees is within 10 degrees

	<p>per minute.</p> <p>The fastest heating rate above 1400 degrees is within 5 degrees per minute.</p> <p>The slowest heating rate is 1 degree per hour</p>
<p>发热元件</p> <p>Heating element</p>	<p>四周安装1700 型硅钼棒</p> <p>1700-type silicon-molybdenum rods are installed around</p>
<p>排气口</p> <p>Exhaust port</p>	<p>炉顶中间 3 个直径 60mm 的排气口 (炉顶平均分布) 排气管道刚玉管</p> <p>There are 3 exhaust ports with a diameter of 60mm in the middle of the furnace top (evenly distributed on the furnace top), and the exhaust pipes are corundum pipes</p>
<p>装料台</p> <p>Loading platform</p>	<p>装料台电动进出, 液压升降</p> <p>The loading platform is electrically operated for entry and exit and hydraulically lifted</p>
<p>保温材料</p> <p>Thermal insulation material</p>	<p>四周保温层分别:</p> <p>第一层 : 1700 型轻质节能微孔泡沫陶瓷高温绝热材料厚 120mm</p> <p>第二层: 1500 型氧化铝纤维板厚度 50mm (炬星)</p> <p>第三层: 1400 型氧化铝纤维板厚度 50mm</p> <p>第四层: 1400 型氧化铝纤维板厚度50mm</p> <p>第五层: 含锆保温棉 100mm</p> <p>炉顶设计三块拱顶材料分别 :</p> <p>第一层: 1700 型轻质节能微孔泡沫陶瓷高温绝热材料 120mm</p> <p>第二层: 1600 型氧化铝纤维板厚度 50mm</p> <p>第三层: 最上面一层陶瓷纤维毯 100mm</p> <p>The insulation layers around are respectively:</p> <p>First layer: 1700-type lightweight energy-saving micro-porous foam ceramic high-temperature insulation material, 120mm thick. Second layer: 1500-type alumina fiber board, 50mm thick (Juxing)</p> <p>The third layer: 1400 type alumina fiber board with a thickness of 50mm</p> <p>The fourth layer: 1400 type alumina fiber board with a thickness of 50mm</p>



	<p>The fifth layer: 100mm zirconium-containing insulation cotton</p> <p>The materials of the three arches designed for the furnace top are respectively:</p> <p>The first layer: 1700-type lightweight energy-saving micro-porous foam ceramic high-temperature insulation material, 120mm. The second layer: 1600-type alumina fiber board, 50mm thick</p> <p>The third layer: The top layer is a 100mm ceramic fiber blanket</p>
<p>炉口耐材 Furnace mouth refractory materials</p>	<p>炉口共 4 个交叉台阶分别:</p> <p>第一层: 1700 型氧化铝空心球砖</p> <p>第二层: 1700 型氧化铝空心球砖</p> <p>第三层: 1500型 M28 砖</p> <p>第四层: 1500 型M28 砖</p> <p>There are a total of 4 crossed steps at the furnace mouth, namely:</p> <p>The first layer: 1700-type alumina hollow sphere bricks</p> <p>The second layer: 1700-type alumina hollow sphere bricks</p> <p>The third layer: 1500 type M28 bricks</p> <p>The fourth floor: 1500 type M28 bricks</p>
<p>装料台耐材 Refractory materials for loading table</p>	<p>装料台共 4 个交叉台阶分别:</p> <p>第一层: 1700 型氧化铝空心球砖</p> <p>第二层: 1700 型氧化铝空心球砖</p> <p>第三层: 1500 型 M28 砖</p> <p>第四层: 1500 型 M28 砖</p> <p>The loading platform has a total of 4 crossed steps, namely:</p> <p>The first layer: 1700-type alumina hollow sphere bricks</p> <p>The second layer: 1700-type alumina hollow sphere bricks</p> <p>The third layer: 1500 type M28 bricks</p>



	The fourth floor: 1500 type M28 bricks
炉体外壳温度 The temperature of the furnace shell	长期使用不停炉， 外壳温度小于室温+ 35 度 After long-term use without stopping the furnace, the shell temperature should be less than + 35 degrees below the room temperature
保护 Protection	采用集成化模块控制单元， 控制精度准确， 并设计了双回路控制和双回路保护， 具备了过冲、超调、欠调、段偶、缺相、超压、超流、超温、电流反馈、软启动等保护 It adopts an integrated module control unit, ensuring precise control. It is also designed with dual-loop control and dual-loop protection, featuring overshoot, overshoot, undershoot, segment couple, phase loss, overvoltage, overcurrent, over-temperature, current feedback, and soft start protection
控制 Control	采用闭环技术可控硅模块触发控制， 移相触发控制或者过零触发方式，输出电压、电流或功率连续可调，具有恒电压、恒电流或恒功率的特性；电流环为内环， 电压环为外环， 在突加负载或负载电流超过限流值时，限制调压器的输出电流在额定电流范围内， 确保输出和调压器正常工作； 同时电压环也参与调节， 使调压器的输出电流被限制在额定电流范围内，在有充分调节余量的前提下维持输出电流及电压的恒定； 从而达到保护发热元件避免过大电流、电压的冲击， 达到安全可靠的控制效果及控制精度。 It adopts closed-loop technology thyristor module trigger control, phase-shift trigger control or zero-crossing trigger mode. The output voltage, current or power is continuously adjustable, and it has the characteristics of constant voltage, constant current or constant power. The current loop is the inner loop and the voltage loop is the outer loop. When a sudden load is added or the load current exceeds the current limit value, the output current of the voltage regulator is restricted within the rated current range to ensure the normal operation of the output and the voltage regulator. At the same time, the voltage loop also participates in the regulation, confining the output current of the voltage regulator within the rated current range, and maintaining the



	constant output current and voltage under the premise of having sufficient adjustment margin. So as to protect the heat-generating elements from the impact of excessive current and voltage, achieving a safe and reliable control effect and control accuracy.
触摸屏 Touch screen	7 寸触摸屏集体控制, 可显示实时电压, 电流, 功率。中文菜单、温度、温度段号、段时间、剩余时间、输出功率百分比, 多条升温工艺曲线储存、储存历史曲线和数据报表等 The 7-inch touch screen collective control can display real-time voltage, current and power. Chinese menu, temperature, temperature segment number, period of time, remaining time, output power percentage, multiple heating process curve storage, storage of historical curves and data reports, etc
随机配件 Random accessories	发热原件两支、棒具两套, 坩埚钳一把, 高温手套一副。 Two heating elements, two sets of rods, one crucible tongs and one pair of high-temperature gloves.
保修范围及期限 Warranty scope and period	电炉免费保修一年, 发热元件不保修 The electric furnace is covered by a one-year free warranty, but the heating elements are not covered by the warranty
注意事项 Precautions	<p>1、为两不影响电炉的使用寿命, 我们建议最大升温速率小于 15 °C/min, (高温下升温过快发热元件寿命会缩短)</p> <p>2、此升降炉没用真空密封结构, 所以不可通入易燃易爆气体</p> <p>3、此升降炉使用一段时间后, 炉膛会出现微小的裂纹, 这属于正常现象, 不会影响使用, 同时可以用氧化铝涂层进行修补</p> <p>4、不建议通入腐蚀性气体, 如果要通入强腐蚀性气体如 S、Na 等, 请提前告知, 我们将对炉膛进行特殊处理</p> <p>5、不能将高温溶液漏到炉底上, 避免方案可采用垫板或者氧化铝粉隔离</p> <p>仪器应放置在空气流通, 不潮湿的地方。</p> <p>1、To avoid affecting the service life of the electric furnace, we recommend that the maximum heating rate be less than 15 °C/ min. (If the heating rises too quickly at high temperatures, the lifespan of the heating components will be shortened.)</p>



	<p>2. This lifting furnace does not have a vacuum sealing structure, so flammable and explosive gases must not be introduced</p> <p>3. After this lifting furnace has been in use for a period of time, tiny cracks may appear in the furnace chamber. This is a normal phenomenon and will not affect its use. At the same time, it can be repaired with an alumina coating</p> <p>4. It is not recommended to introduce corrosive gases. If strong corrosive gases such as S and Na need to be introduced, please inform us in advance and we will carry out special treatment on the furnace chamber</p> <p>5. High-temperature solutions must not leak onto the bottom of the furnace. To avoid this, a pad or alumina powder can be used for isolation</p> <p>6. The instrument should be placed in a well-ventilated and non-damp area.</p>
<p>发货事项 Shipping matters</p>	<p>1、电炉的包装为三层包装，海绵纸包裹后再用塑料薄膜缠绕</p> <p>2、国内免费送货上门（市区内免费送货）</p> <p>3、在电炉运输过程中出现的任何损坏有我方承担</p> <p>物流方式：汽车、铁路、轮船（外贸出口）、空运（外贸出口）运输，距离较近的我公司委派专车运输（包装为木托加纸箱）。</p> <p>1、The packaging of the electric furnace is in three layers. It is wrapped with sponge paper and then wrapped with plastic film</p> <p>2. Free domestic door-to-door delivery (free delivery within urban</p>



	<p>areas)</p> <p>3. Any damage that occurs during the transportation of the electric furnace shall be borne by us</p> <p>4. Logistics methods: Road, railway, ship (for foreign trade export), air (for foreign trade export) transportation. For shorter distances, our company will assign a dedicated vehicle for transportation (packaging is wooden pallets and cartons).</p>
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