

哈珀是额定温度达 3000°C 的 UHT（超高温）连续加热炉系统的世界领先供应商，其产品用于生产多种粉末金属材料和高模量碳纤维，主要用于要求高刚度的应用。

哈珀的工程专家团队利用创新设计技术解决了开发必须长时间在此类高温条件下工作的系统时遇到的难题。曝露在如此高温的条件下，制造加热炉所用的大多数材料（例如，加热元件和隔热材料）都将在反应中消耗掉。哈珀利用其多年的丰富经验以及多种专有特性，实现了能够在这些高温条件下长时间可靠工作的系统。

哈珀开发出了各种尺寸的超高温炉，最小的系统仅 65 毫米宽，不同系统的年产率从 10 吨到 400 吨及以上不等。与其他所有设计一样，我们能够根据每位客户的处理需要量身定制最先进的解决方案，请[立即联系我们](#)了解更多信息。

了解更多.....

- 创新行动 – 利用我们的[专利](#)开发创造性解决方案
- 成功扩大规模 – 哈珀的 [Ignite™ 计划](#)
- 发掘我们的专业知识 – [资源中心](#)

## UHT Graphitization Furnace

### Features

- Patented atmospheric seal + liquid seal to reduce Nitrogen and Aragon gas consumption of 50% (both in Horizontal and Vertical design)
- Patented Nitrogen and Aragon retention and supply system to conserve gas consumption of 50%
- Patented fast pre-vacuum-heating design that reduce start-up time more than 300% of existing furnace in the market (under industry standard of oxygen concentration level)
- Patented Fast Cooling design to reduce cooling time from 5 days to 5 hours without damaging interior graphite heater
- Continuous monitoring of Oxygen, Nitrogen, Aragon and exhaust flow rates and concentration
- Special Design for quick access to muffle interior and easy maintenance from furnace exterior without disassembling muffle
- Energy efficient design – reusable heat to reduce energy consumption of 30~40%
- Patented Cooling system to prevent heat lost
- Choose option between Patented Leak-free water cooling system for cooling, or

Thermal Insulation cooling system to reduce energy consumption of 30~40%

- Muffle Height design take fiber drape, heat expansion into account without harming fiber

### Applications

- Use in max production of 1500 ton/year (design upon request)
- Use in Carbon Fiber bundle: 3K ~ 24K
- Option Items        Pre-heating Furnace for anti-condensation

### Specifications

- Operation Temperature Max 3000°C
- Retention Time: According to customer' s specification
- Option Items:        Anti-condensation design for exhausted pipeline and two end of furnace



