Since 1982, we've provided laboratory and production equipment to organizations spanning material science and engineering, mechanical and chemical engineering, extraction and processing, biotechnology, heavy industry, education, government, and healthcare.



Introducing the SH Scientific Cart Furnace: Thermal Treatment at Scale

Muffle furnaces are versatile and effective, but their limited capacity is often a bottleneck.

Our **cart furnace** enables **more efficient thermal treatment of** large samples and bulk quantities.

- Extremely large capacity of 1,175 liters or more
- Up to 1600°C max operating temperature
- Programmable digital controller
- Powder-coated steel case and frame
- Ceramic interior with 45 kW Kanthal® or other high-temperature heating elements

6.

- Internal dimensions of 750 mm (w) x 1650 mm (d) x 950 mm (h) or larger
- External dimensions of 1660 mm (w) x 4200 mm (d) x 1954 mm (h) or larger

## **How Are Our Cart Furnaces Used?**

Cart furnaces make sense when a muffle furnace is technically appropriate but lacks capacity. They're optimal for large-scale heat treatment, most often in applications like:

# **Battery R&D**

Stay competitive in this rapidly expanding market with uncompromising sintering, annealing, and even chemical vapor deposition.

# **Ceramic debinding & sintering**

Remove binders at 200°C to 550°C and seamless transition into sintering at higher temperatures.

# Release agent removal

Quickly and efficiently remove release agents such as waxes, fatty esters, silicones, and metallic soaps from your molds. If your facility is responsible for cleaning numerous molds of different sizes, our cart furnace will bring dramatic time and labor savings.

# **Bulk pyrolysis**

Save time and space while processing larger samples for biomass decomposition and other forms of bulk pyrolysis.



# WHY SH SCIENTIFIC?

Like our entire line, every cart furnace is **built in South Korea** and **supported from our US sales office.** 

They're already indispensable to many of our industrial customers overseas, so we're proud to introduce an option for the North American market.

Does your facility have more unique needs?

Inquire about our ODM/OEM services, in-house R&D, and custom manufacturing capabilities.





#### A BRIFF HISTORY OF

# **SH SCIENTIFIC**



## Call Us

+1503-850-8670



### **Email**

jbang@labandfurnace.com



## **U.S. Headquarter**

12725 SW Millikan Way Beaverton, OR 97005

## Serving North America Since 2013

In 2018, after particularly rapid growth in the American education and public sectors, we founded a US head office in Portland, Oregon. Whether you're visiting us on behalf of a major institution, a small lab, or anything in between, we're honored that you're considering SH Scientific as a potential partner. We look forward to a lasting relationship in support of your innovation and discovery.

#### 1982

SH Scientific Co Ltd, Korea was established.

#### 2006

ISO 9001, KS A9001 acquired.

## 2007

CE certified for all drying ovens, vacuum drying ovens, limate chambers incubators, clean benches, circulating water baths.

#### 2009

Patent registered for vacuum drying ovens.

#### 2010

Design registered for drying ovens and climate chambers.

#### 2012

Transferred HQ and factory
to Sejong city, Korea.
Utility model registered for
drying ovens.
Patent registered for
vacuum drying ovens.
Venture Enterprise certified.

## 2013

Patent registered for vacuum drying ovens. Started overseas sales including North America.

#### 2018

Established SH Scientific USA (sales office) in Oregon, US

#### 2021

Started supplying laboratory and industrial furnaces to colleges, universities, county and federal entities.

#### 2022

UEI Registered for the U.S. government projects.