New Material Development Equipment

AdvanHeat®

Series / Equipment Name * Click for details (PDF)	Features	Max. Operating Temperature
Batch Furnace	Our technologies are well suited to use in small-volume, multi-model heating and heat-treating applications, and they can be adjusted to suit a range of production volumes. We supply batch furnaces in a range of sizes, from compact R&D units to large, high-performance models designed for use in manufacturing applications.	
> Ultrafast Heating Electric Furnace (SF) *	Optional: 1,800°C Specifications A compact R&D experimental furnace that can raise the temperature quickly in the atmosphere and operate efficiently.	1,700°C
> Large-Scale Fast Heating Electric Furnace (HLF)*	Optional: 1,800°C specifications A large-scale R&D and production furnace with good temperature distribution in the atmosphere.	1,700°C
> Ultra-High-Speed, High-Temperature Melting Furnace (RMF) *	A convenient tabletop R&D furnace of elevator type, capable of introducing inert gas, and ideal for melting glass and metal.	1,650°C
> High-Speed Heating Furnace (HAF) *	Optional: 1,800°C specifications The HAF Series includes an R&D and production furnace and large-scale furnace, in which various atmospheres can be easily obtained.	1,700°C
> Large-Scale Elevator-Type Electric Furnace (HPF) *	An elevator-type electric furnace developed to increase the size and soaking. This furnace provides uniform soaking for a large amount of sintering at high temperatures and demonstrates excellent performance for research and production.	1,700°C
> Multipurpose Atmosphere Furnace (PVF) *	A versatile atmosphere furnace of completely sealed type using a muffle, and providing a vacuum, oxidizing or reducing atmosphere, and inert gas atmosphere.	1,150°C
> High-Temperature Vacuum Atmosphere Furnace (SVF) *	An R&D and production furnace that employs a metal heater and can perform heat treatment in a vacuum, reducing atmosphere, and inert gas atmosphere.	2,200°C
> High-Temperature Vacuum Atmosphere Furnace (CVF) *	An R&D and production furnace that employs a carbon heater and performs heat treatment in a vacuum, reducing atmosphere, and inert gas atmosphere.	2,200°C
> Atmosphere Hot Press Furnace (AHP) *	An R & D and production furnace that employs a carbon heater and used for pressing at high temperatures in a vacuum, reduction atmosphere, and inert gas atmosphere.	2,300°C
> Pressure Sintering Furnace (CMO) *	A sintering furnace that can be used under pressurized atmospheres in a wide range of conditions, including oxidizing and reducing atmospheres. Larger sizes are available.	1,700°C
> Batch-type Rotary Tube Furnace (B-RTF) *	Various powders, such as metal and ceramic powders, can be fired for a long time in an oxidizing atmosphere, reducing atmosphere, and inert gas atmosphere.	1,000°C
> Condensing Furnace (OHS)*	Incorporating a reflection module and halogen heater to achieve rapid heating and cooling.	1,100°C
Continuous Furnace	These continuous furnaces keep production running by avoiding the need to stop equipment. HIROCHIKU continuous furnaces help keep manufacturing lines running efficiency with an extensive range of heat treatment methods, including conveyor, tri-batch, rotary hearth, and rotary tube variants.	
> Rotary Tube Furnace (RTF) *	A continuous furnace that is optimal for the heat treatment of powder, used to save heat treatment time, and ideal for the pilot and full-fledged production of various powders.	1,600°C
> Atmosphere Rotary Tube Furnace (A-RTF) *	Making it possible to heat process various types of powders uniformly and continuously in H_2 and N_2 gas atmospheres.	1,600°C
> Walking Beam Furnace (WBF)	A walking beam furnace of the electric heating type, with technology introduced from Klemmer (Germany), boasting abundant delivery records all over the world.	1,800°C

> Roller Hearth Furnace (RHF) *	Consisting of an inlet replacement, followed by heating, slow cooling, and cooling chambers, outlet replacement chamber, and return table, making firing possible in high-temperature atmospheres.	1,500°C
> Rotary Hearth Furnace (RF) *	A continuous furnace of the rotary hearth type, incorporating an industrial robot, achieving environmental, labor-saving, and accuracy improvements in melting work for Dray analysis.	1,250°C
> Pusher Furnace (PF) *	A pusher-type continuous furnace with tray batch automatic transfer suitable for unmanned continuous binder removal and sintering applications.	1,500°C