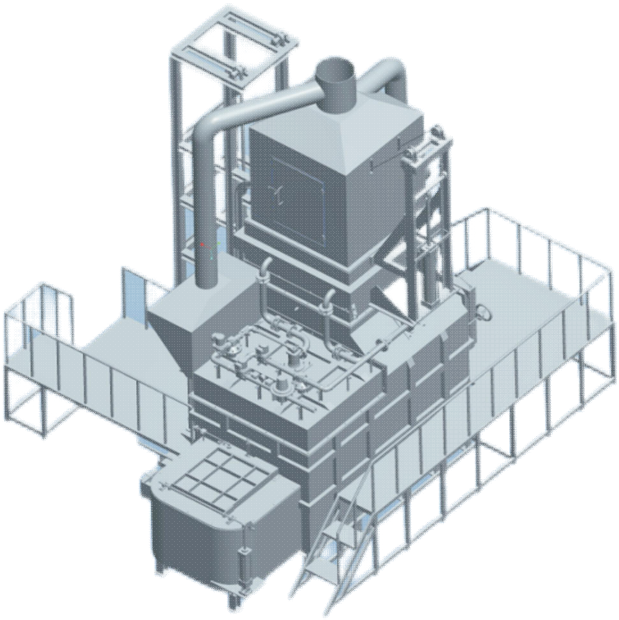
01 Centralized melting furnace

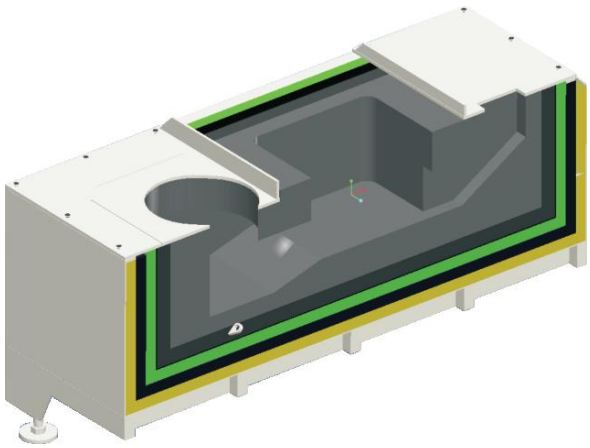


Product Features:

1. Supports multiple fuel types: natural gas, propane gas, diesel, and heavy fuel oil.
2. Low-speed burner technology reduces oxidation and ensures an average metal loss rate of less than 0.8%.
3. High energy efficiency: over 50% of the remaining energy is reused for the preheating zone.
4. Specially designed furnace body with excellent insulation ensures the outer surface temperature stays below 25°C.
5. Fully automatic feeding, furnace cover opening, and material dropping, controlled by an advanced PLC system.
6. Touchscreen control for temperature monitoring, material weight tracking, and molten metal depth measurement.

Technical Specifications Table

Model	Melting Capacity (KG/H)	Volume (KG)	Burner Power (KW)	Overall Size (mm)
RC-500	500	1200	320	5500x4500x1500
RC-800	800	1800	450	5500x4600x2000
RC-1000	1000	2300	450×2 units	5700x4800x2300
RC-1500	1500	3500	450×2 units	5700x5200x2000
RC-2000	2000	4500	630×2 units	5800x5200x2300
RC-2500	2500	5000	630×2 units	6200x6300x2300
RC-3000	3000	6000	630×2 units	6300x6300x2300



This furnace is constructed with imported high-grade refractory materials that resist aluminum adhesion, combined with low thermal conductivity insulation boards. This design minimizes radiant heat loss, keeping the outer surface temperature as low as 10-12°C. As a result, it significantly enhances energy efficiency, maintains stable molten aluminum quality, and improves working conditions. The furnace features a fully cast lining, **no need crucibles** and reducing production costs.

Features:

1. Long service life: The furnace wall uses imported casting materials that reduce aluminum adhesion, minimizing pollution and corrosion. This lowers maintenance time and costs, with a lifespan of over 5 years under normal use.
2. Simple maintenance: No issues with damaged heating elements, making repairs straightforward.
3. Reused exhaust heat: The furnace recycles gas waste heat through a secondary heat exchanger, reducing costs.
4. Stable combustion: Uses an air-gas ratio control system to ensure consistent combustion.
5. Safety features: Equipped with alarms for low gas pressure, low air pressure, flameout, and abnormal molten aluminum conditions.

Model	Volume (KG)	Outlet Size (mm)	Depth (mm)	Overall Size (mm)	Burner Power (KW)	Avg Fuel Flow (M^3/H)	Max Pour (KG)	Molten Level Drop Range (mm)
GH-500	500	400×450	500	2200×1350	60	[2.0]	230	285-155
GH-650	650	430×500	550	2300×1350	60	[2.5]	300	325-175
GH-850	850	450×550	600	2400×1500	90	[3.2]	390	375-200
GH-1000	1000	480×580	650	2450×1500	90	[3.6]	500	375-200
GH-1200	1200	500×580	700	2500×1500	120	[4.5]	600	425-250
GH-1500	1500	550×600	750	2600×1500	120	[5.5]	800	425-250
GH-2000	2000	600×650	800	3200×1800	180	[6.5]	1000	500-275
GH-3000	3000	650×700	850	3400×1800	240	[8.0]	1200	525-275
GH-5000	5000	700×800	900	4000×1800	240	[9.0]	1400	525-275

The above specifications refer to natural gas consumption.

03 Crucible type gas furance

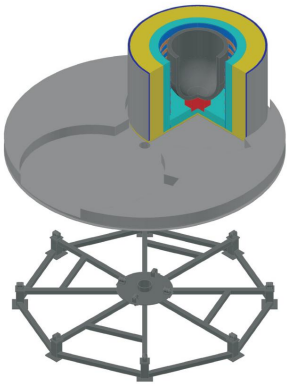
This Furnace is an upgraded version of the standard gas crucible furnace, designed to optimize the use of exhaust heat and reduce the formation of aluminum oxide on the surface of molten aluminum. It is ideal for die-casting or casting products that require high-quality molten aluminum.

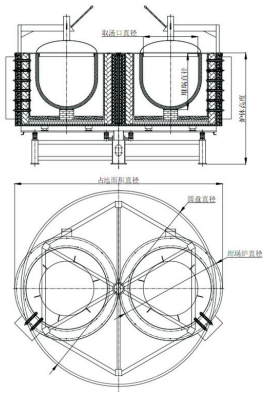
Features:

1. New heat recovery system: Significantly reduces energy consumption and minimizes the formation of aluminum oxide on the molten aluminum surface, improving overall metal quality.
2. Durable burner: Equipped with a more durable burner, offering a longer service life.
3. Excellent insulation: The furnace features excellent insulation with low heat retention, rapid heating, and a furnace wall temperature increase of less than 20°C.
4. Advanced control technology: Utilizes integrated control technologies such as variable cycle and PID, achieving temperature control accuracy within ±5°C.
5. High-quality graphite crucible: The furnace uses imported graphite crucibles known for their superior thermal conductivity, fast heating, and extended lifespan.
6. Intelligent temperature control: Includes an intelligent temperature controller and specialized thermocouples for measuring both the furnace chamber and molten aluminum, providing dual temperature control for precise regulation and reduced defect rates.

Mdel	Volume (KG)	Capacity (KG/H)	Crucible (mm)	Overall Size (mm)	Max Power ($\times 10^4$ Kcal)	Machine modle (Tons)
GC-300	300	100	500	Φ1380×1100	15	160-200
GC-350	350	100	595	Φ1480×1100	15	200-280
GC-400	400	120	595	Φ1480×1150	17	280-350
GC-500	500	150	595	Φ1580×1200	20	400-500
GC-600	600	170	675	Φ1580×1300	23	500-650
GC-800	800	200	750	Φ1680×1400	26	650-800
GC-1000	1000	250	750	Φ1680×1500	30	1000-1600

***Note: Furnace height can be customized according to customer requirements.**





This furnace is specifically designed for advanced aluminum alloy melting and holding, suitable for low-pressure casting and liquid forging processes. The base is equipped with a motor and reducer, allowing it to rotate 180 degrees to the desired position for robotic arms.

Features:

1. The furnace produces high-quality molten aluminum ingot for superior casting, with precise temperature control and uniform composition. While one furnace is melting aluminum, the other maintains the molten state, enabling simultaneous composition testing and record-keeping.
2. It minimizes burn loss and includes a comprehensive alarm and protection system. The heating elements have a long lifespan, and the furnace wall temperature increase is limited to no more than 15°C above the ambient temperature. Each crucible operates with independent electrical and heating systems, significantly reducing the risk of production halts due to equipment failure.
3. The furnace uses well-known brand graphite crucibles, which offer a long service life, excellent thermal conductivity, high thermal efficiency, and low energy consumption.

Model	Volume (KG)	Capacity KG/H	Crucible Dia. mm	Height mm	Size mm	104 Kcal Max.Power	Machines Ton
CR-300	600	160	500	1300	3900X2900	120	500-650
CR-500	1000	250	675	1400	4400X3400	180	800-1000
CR-600	1200	300	675	1500	4400X3400	220	1000-1250
CR-800	1600	380	750	1600	4500X3500	270	1250-1 650
CR-1000	2000	450	750	1700	4500X3500	320	1650-2000
CR-1200	2400	500	750	1900	4500X3500	360	2000-2500

*Note: Furnace height can be customized according to customer requirements.