

GOLD MELTING FURNACE



KEY FEATURES

Outer Body

- Made of sturdy Mild steel for durability.
- Often coated with heat-resistant paint
- Comprises with the control panel

Insulation Layer

- Made of high-quality refractory materials such as ceramic fiber or fire bricks.
- **Purpose:**
 - Minimizes heat loss.
 - Ensures uniform temperature inside the furnace.
 - Protects the outer casing from extreme heat.

Heating Chamber

- Constructed using high-temperature resistant materials (ceramic).
- Designed to handle temperatures up to 1200°C for different metals.
- Equipped with temperature sensors for precise control

Crucible

- The container that holds the metal to be melted.
- Material options:
 - **Graphite crucibles:** Excellent heat conductivity, ideal for gold.(Optional on extra cost)
 - **Ceramic crucibles:** Resistant to chemical reactions, suitable for multiple metals. Optional on extra cost)

Heating System.

- **Resistance Elements**
 - Silicon Carbide Rods embedded in the chamber walls.
 - Converts electrical energy into heat.

Temperature Control System

- PID digital controller connected to thermocouples.
- Allows precise setting of melting temperatures.
- Ensures consistent heating and prevents overheating.

Safety Features

- Overheat protection.
- Overcurrent and overvoltage safeguards.
- Emergency shut-off systems.
- Protective handles and tilting mechanisms for safe pouring.

Control Panel

- Digital interface having LED/LCD display
- Temperature Increasing / Decreasing buttons
- Load Indicator
- Timer Buttons
- Error/safety alerts
- Allows programmable operation for repeated tasks.

Model	GMF PTE 560 A	GMF PTE 560 B	GMF PTE 560 C	GMF PTE 560 D	GMF PTE 560 E	GMF PTE 560 F	GMF PTE 560 G	GMF PTE 560 H
Capacity	250 gm	500gm	750 gm	1 kg	2 kg	3 kg	4 kg	5 kg
Load	1.5 KW	1 .5KW	1.5KW	2KW	2.5KW	4 KW	4.5KW	7-8 KW
Supply	Single Ph	Single Ph	Single Ph	Single Ph	Three Ph	Three Ph	Three Ph	Three Ph