

TOAUTO TGF3000-V1.1

TOAUTO TGF3000-V1.1 Electric Gold Melting Furnace

INSTRUCTION MANUAL

1. Introduction

This manual provides essential instructions for the safe and efficient operation of your TOAUTO TGF3000-V1.1 Electric Gold Melting Furnace. Please read all instructions carefully before use to ensure proper functionality and to prevent injury or damage.



Image 1.1: The TOAUTO TGF3000-V1.1 Electric Gold Melting Furnace, shown with included crucibles, ingot mold, tongs, and gloves.

2. Safety Instructions

WARNING: Failure to follow these safety instructions may result in serious injury or property damage.

- The furnace must be used outdoors or in an open, well-ventilated environment. It is forbidden to use it in rain, snow, wet weather, or humid conditions.
- It is forbidden to use the furnace in crowded places. Keep away from people, houses, pets, and plants when operating. Minors are prohibited from using this product.
- A fire extinguisher must be present within 2 meters of the product. Irrelevant personnel are prohibited from approaching during operation.
- Check for malfunctions, rows, or cracks in the crucible before use. If any are found, stop using the unit immediately.
- The surface of the machine will reach high temperatures during operation. Take protective measures against high temperatures.
- Always wear appropriate personal protective equipment (PPE), including high-temperature gloves, safety helmets, and high-temperature masks.
- Prohibit contact with water during operation. It is forbidden to add anything to the molten metal.
- It is forbidden to cool down quickly after using the product and crucible. Allow them to cool naturally.

- Before pouring molten metal, the crucible should be preheated in advance.
- Gas is generated during the smelting process, which causes an increase in pressure and poses a danger. If the armor is full, open the lid and smelt.

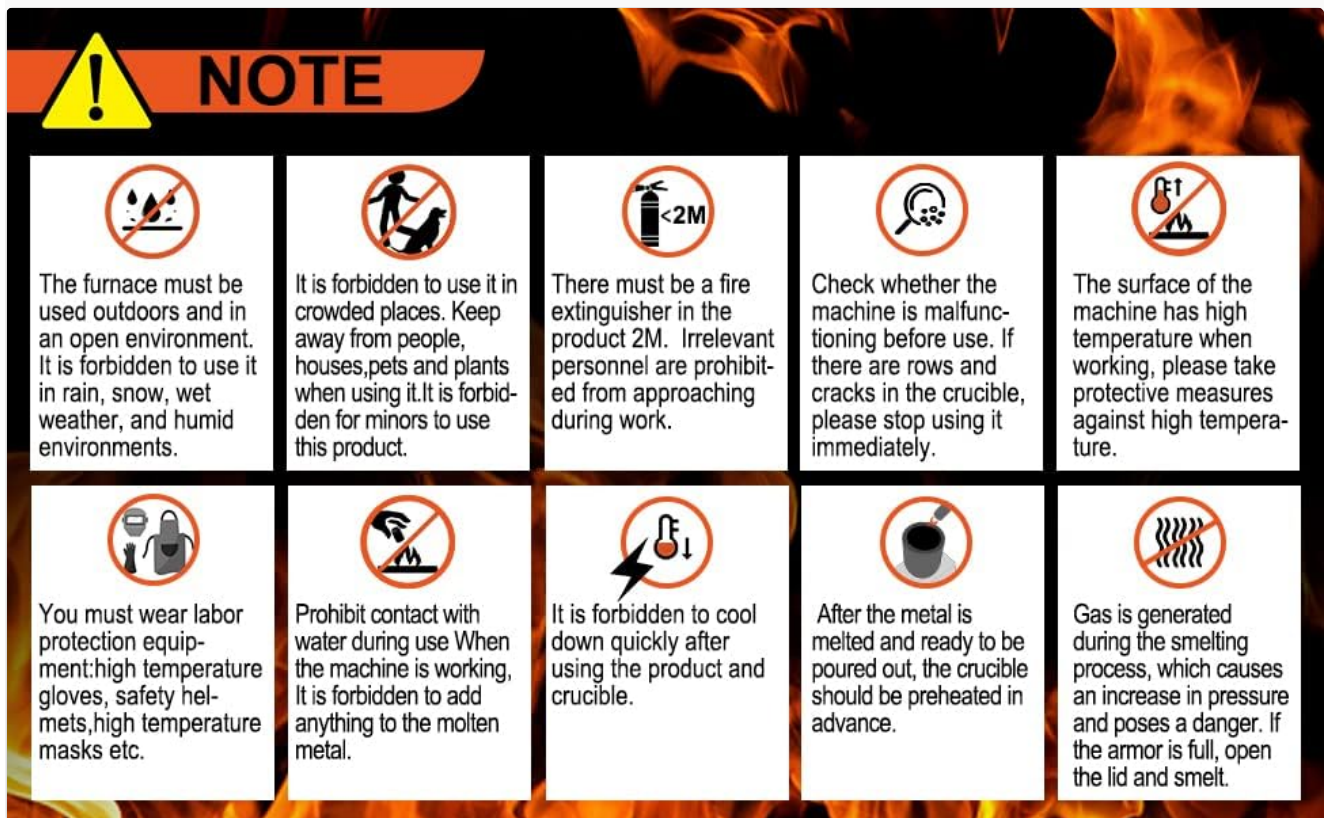


Image 2.1: Visual representation of critical safety warnings for furnace operation.

3. Package Contents

The TOAUTO TGF3000-V1.1 Electric Gold Melting Furnace kit includes the following items:

- TOAUTO TGF3000-V1.1 Gold Furnace Machine (1 unit)
- 3KG Graphite Crucible (1 unit)
- 1KG Graphite Crucible (1 unit)
- Coin Graphite Ingot Mold (1 unit)
- Crucible Forceps (1 unit)
- High-Temperature Gloves (1 pair)
- Power Cord (1 unit)
- Instruction Manual (1 unit)

Perfect 8-in-1 Melting Kit Upgraded



V1.1 gold furnace machine * 1
1KG graphite crucible * 1
Crucible forceps * 1
Power cord * 1

3KG graphite crucible * 1
Coin graphite ingot mold * 1
High-temperature gloves * 1
Instruction manual * 1

Image 3.1: All components included in the TOAUTO TGF3000-V1.1 melting kit.

4. Setup

1. **Unpack Components:** Carefully remove all items from the packaging and verify against the package contents list.
2. **Placement:** Place the furnace on a stable, non-combustible surface in a well-ventilated outdoor area, away from flammable materials and personnel.
3. **Crucible Selection:** Choose the appropriate graphite crucible (1KG or 3KG) based on the amount of metal to be melted. Refer to Image 4.1 for capacity details.
4. **Power Connection:** Ensure the furnace's power switch is in the OFF position. Connect the power cord to the furnace and then to a compatible 110V power outlet.

Temperature Adjustable

100° C-1100°C

meet different working temperature requirements

Fast Heating up

it takes only 30-45 minutes to reach the melting point 1100 °/2100 °F



Image 4.1: The furnace is designed for temperatures between 100°C and 1100°C, achieving melting point in 30-45 minutes.

RICH ACCESSORIES FOR FLEXIBILITY

3kg / 334ML

can be melted

6.4kg
gold

3.5kg
silver

3.0kg
copper

0.9kg
aluminum



1KG / 150ML

can be melted

2.5kg
gold

1.4kg
silver

1.0kg
copper

0.35kg
aluminum



72*57*12mm

casting metals capacity is an approximate number
= 1/4, 1/2, 1 oz.



Image 4.2: Details on the melting capacities of the 1KG and 3KG crucibles for various metals, and the dimensions of the coin ingot mold.

5. Operation

1. **Power On:** Flip the main power switch to the ON position. The digital display will illuminate.
2. **Set Temperature:**
 - Press the 'SET' button to enter temperature setting mode. The green display shows the set temperature value.
 - Use the numerical increase/decrease buttons to adjust the desired melting temperature.
 - Press 'SET' again to confirm the temperature. The furnace will begin heating.
3. **Loading Metal:** Carefully place the metal to be melted into the crucible. Ensure the crucible is properly seated inside the furnace.
4. **Melting Process:** The furnace will heat to the set temperature. The actual temperature will be displayed. Melting times vary by metal type and quantity (e.g., 40-55 minutes for gold, silver, copper, aluminum up to 1100°C).
5. **Pouring:** Once the metal is molten, carefully remove the lid using the provided tongs. Using the crucible forceps, securely grip the crucible and pour the molten metal into your desired mold. Always wear high-temperature gloves and other PPE during this step.
6. **Cool Down:** After pouring, return the crucible to the furnace or a safe, heat-resistant surface. Allow the furnace and crucible to cool naturally. Do not attempt to cool rapidly with water.

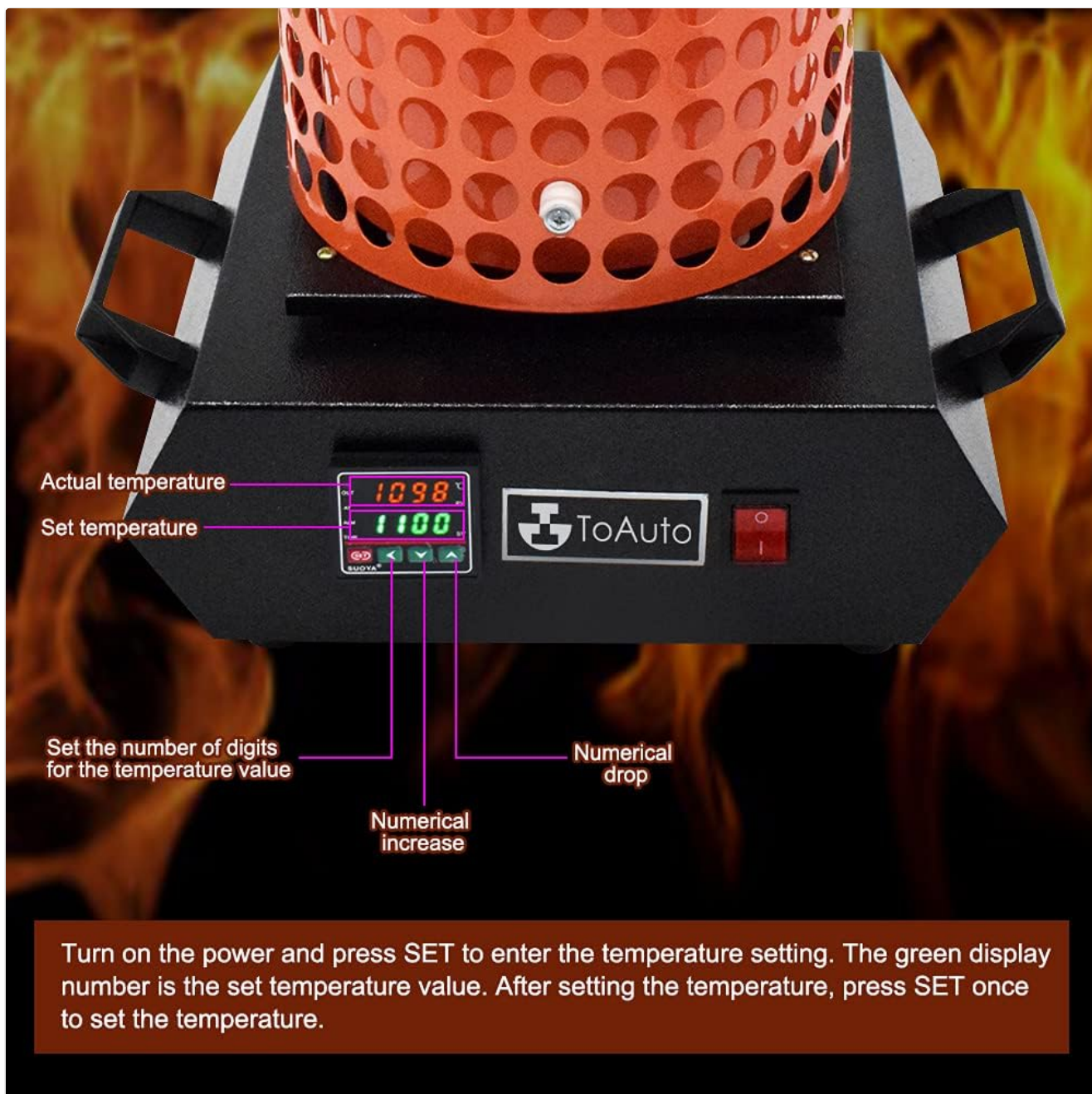


Image 5.1: Detailed view of the control panel, indicating actual temperature, set temperature, and buttons for numerical adjustment.



Image 5.2: Proper use of crucible tongs for handling the hot crucible.

6. Maintenance

- **Cleaning:** Ensure the furnace is completely cool and unplugged before cleaning. Use a dry cloth to wipe down the exterior. Do not use abrasive cleaners or immerse the unit in water.
- **Crucible Inspection:** Regularly inspect crucibles for cracks, wear, or damage. Replace damaged crucibles immediately as they are consumable items.
- **Storage:** Store the furnace and accessories in a dry, safe place when not in use.

7. Troubleshooting

If you encounter issues with your TOAUTO TGF3000-V1.1 furnace, consider the following:

- **Furnace Not Heating:** Check if the power cord is securely plugged in and the power switch is ON. Verify the circuit breaker has not tripped.
- **Temperature Inaccuracy:** Ensure the crucible is properly seated and the lid is closed during heating. If issues

persist, contact customer support.

- **Metal Not Melting:** Confirm the set temperature is appropriate for the specific metal's melting point. Ensure the metal is clean and free of impurities. For aluminum, using borax as a flux can assist melting.
- **Smoke or Unusual Odors:** Immediately power off the unit and unplug it. Allow it to cool completely and inspect for any visible damage. Do not operate if damage is found.

For complex issues or repairs, refer to the detailed repair instructions in the physical manual or contact TOAUTO customer support.

8. Specifications

Feature	Detail
Brand	TOAUTO
Model Name	TGF3000-V1.1
Power	1400W
Max Temperature	1100 °C / 2000 °F
Melting Time (approx.)	40-55 minutes (for metals below 1100°C)
Temperature Control	PID Digital Control
Voltage	110V
Material	High Quality Metal
Product Dimensions (L x W x H)	10 x 11.5 x 12 inches
Item Weight	16.5 pounds (7.5 Kilograms)

Gold



Copper



Silver



Aluminum



Wide Application







Image 8.1: The furnace is suitable for melting various precious metals including gold, copper, silver, and aluminum.






9. Warranty and Support

For warranty information, technical support, or to purchase replacement parts, please contact TOAUTO customer service directly. Refer to the contact information provided with your product packaging or visit the official TOAUTO website.

You can visit the TOAUTO store online for additional product information:[TOAUTO Official Store](#)

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Related Documents - TGF3000-V1.1

	<p>Eaton Rocker Switches: Comprehensive Product Catalog and Technical Guide</p> <p>Explore Eaton's extensive range of rocker switches, including NGR, SVR, ESPORT, EURO SR, X Series, and more. This catalog provides detailed product descriptions, technical specifications, circuit diagrams, dimensions, and ordering information for various industrial, commercial, and automotive applications.</p>
	<p>Bourns 3541H-1-XXXX Material Declaration Sheet</p> <p>Detailed material declaration for Bourns 3541H-1-XXXX sensors and controls, listing component materials, weights, and CAS numbers as per industry standards.</p>
	<p>OJ Microline® Type ETR2: Ice and Snow Melting Control System Instructions</p> <p>Comprehensive instructions for the OJ Microline® Type ETR2 thermostat, detailing its use for economical ice and snow melting on outdoor areas and in gutters, including sensor installation, wiring, and setup.</p>
	<p>tekmar WiFi Snow Melting Control 671 - Application Brochure and Specifications</p> <p>Comprehensive application brochure for the tekmar WiFi Snow Melting Control 671, detailing its features, specifications, and various system configurations including dedicated boiler, shared boiler, steam valve, electric cable, and multi-zone applications. Includes wiring diagrams and sensor compatibility.</p>
	<p>DOCSIS 3.1 OFDM Channel Configuration Guide for Cisco cBR Series Routers</p> <p>A comprehensive guide detailing the configuration of DOCSIS 3.1 OFDM channels on Cisco cBR Series Converged Broadband Routers, covering hardware compatibility, modulation profiles, channel profiles, and primary channel setup.</p>



[Eaton Cooper Power Series Terminals Catalog Data](#)

Comprehensive catalog data for Eaton's Cooper Power Series terminals, featuring aluminum and copper terminals, lugs, adapters, and related accessories for electrical connections.