



# CAST

## MASTER



GG Mini Pro – Propane Melting Furnace

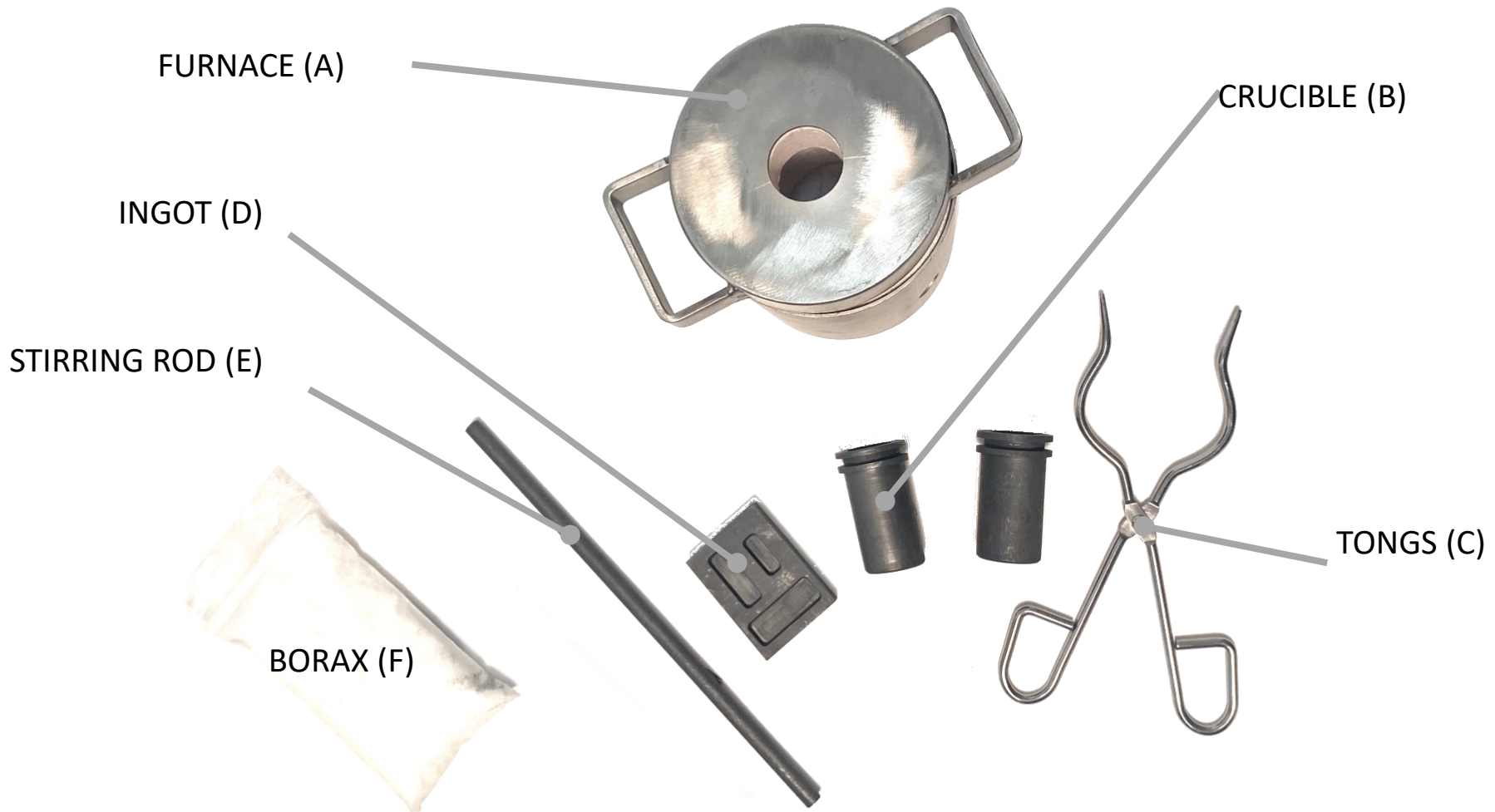
# USER MANUAL



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## PART LIST



FURNACE (A)

CRUCIBLE (B)

INGOT (D)

STIRRING ROD (E)

TONGS (C)

BORAX (F)



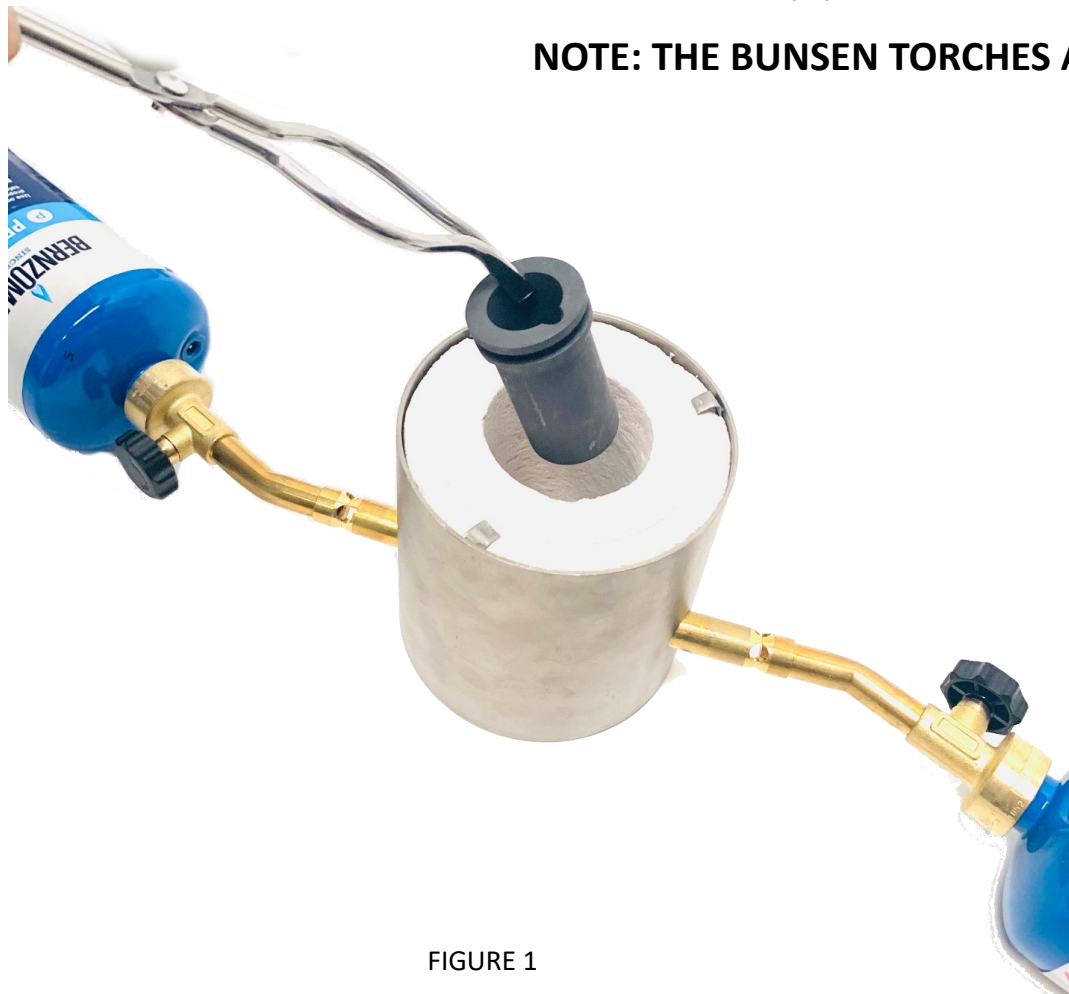
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1

INSERT A BUNSEN TORCH INTO EACH OF THE OPENINGS AT THE BOTTOM OF THE FURNACE (A)

**NOTE: THE BUNSEN TORCHES ARE NOT INCLUDED WITH THE GG MINI PRO**



2

TURN BOTH BUNSEN TORCHES ON.

3

USING THE SUPPLIED TONGS (C), PLACE THE CRUCIBLE (B) IN THE CENTER OF THE FURNACE (A).

AT THIS POINT THE FURNACE SHOULD LOOK LIKE IN FIGURE 1.

FIGURE 1



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- 4 PLACE LID OVER THE FURNACE
- 5 USING PROTECTIVE GLOVES, SLIDE THE LID TO ADJUST THE OPENING AT THE TOP OF THE FURNACE AND ADJUST THE AIR FLOW INSIDE THE FURNACE TO THE LEVEL YOU WANT.

**NOTE: THE GLOVES ARE NOT INCLUDED WITH THE GG MINI PRO.**

- 6 ONCE THE METAL INSIDE THE CRUCIBLE IS MELTED, USE THE TONGS (C) TO GRAB THE CRUCIBLE (B) OUT OF THE FURNACE (A) AND POUR THE MELTED METAL INSIDE THE INGOT (D)



FIGURE 2



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## GG Mini Pro – Disclaimer

- Make sure to allow a minimum of a foot and a half (18 inches) clearance between the furnace and any surrounding combustible items or surfaces. This space should help dissipate the heat emitted by the furnace.
- Keep the furnace away from combustible or flammable materials as the furnace may cause them to ignite.
- The GG Mini Pro is best used in an area with good ventilation to avoid hazards related to fumes released by some alloys. Check local and federal guidelines for proper ventilation.
- **We recommend that you keep the original carton and packaging material to re-use in the event the furnace must be re-turned for servicing.**
- This is not an industrial grade smelting furnace. Slight warping and discoloration of the furnace's chamber will occur over time due to the high heat of the direct flame but will not affect the functionality of your furnace.



# GG Mini Pro– Operational Safety

Your melting furnace is designed to provide safe and efficient operation. Due to the extremely high heat and molten metal involved in this process, a high degree of caution and care are critical to ensure its safe use. Please note the following the precautions before operating this furnace.

## **WARNING:**

- Always use appropriate safety equipment including:
  - Safety glasses
  - Heat resistant gloves
  - Fireproof apron
  - Leather-toed shoes

Molten metal can cause serious injury if not handled properly and carefully.

- When operating your furnace:
  - Keep hands, hair and clothing away from melting chamber
  - Do not let moisture drip into the molten metal. A violent reaction may occur
  - Do not touch the furnace while in use or until sufficient cooling time has passed
  - The furnace generates extremely high temperature that can cause severe burns or a fire
- A temperature significantly higher than the melting point of the metal you are putting inside the crucible may result in excessive boiling of the metal. This may result in molten metal popping outside of the crucible when opening the lid.

**Note:** Prior to every use, inspect your crucible for:

- Cracks
- Wear
- Deterioration

High heat may cause the walls and base of your crucible to gradually become thinner. This may result in leaking molten metal.