

USER MANUAL & ASSEMBLY INSTRUCTIONS

10 KG CRUCIBLE LIFTING & POURING TONG

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Short Description

This **set of lifting and pouring tongs** is a useful tool for metal **smelter**.

Lifting Tong is used to remove a crucible full of molten metal from the furnace and place it in the ring pouring Tong.

The **Pouring Tong** aids in the transfer of molten metal from the crucible to the ingot mold cavity.

This set of tongs gives you more control when handling hot liquid metal. This heavy duty tong is ideal for large graphite foundry crucibles.

Important Notes (Clay Graphite Crucible)

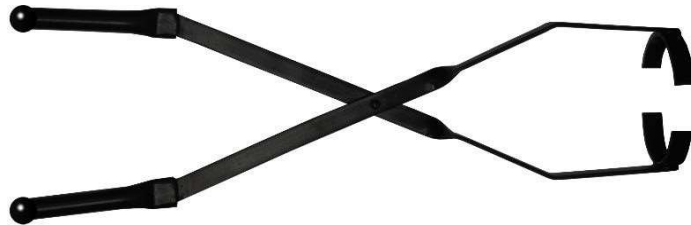
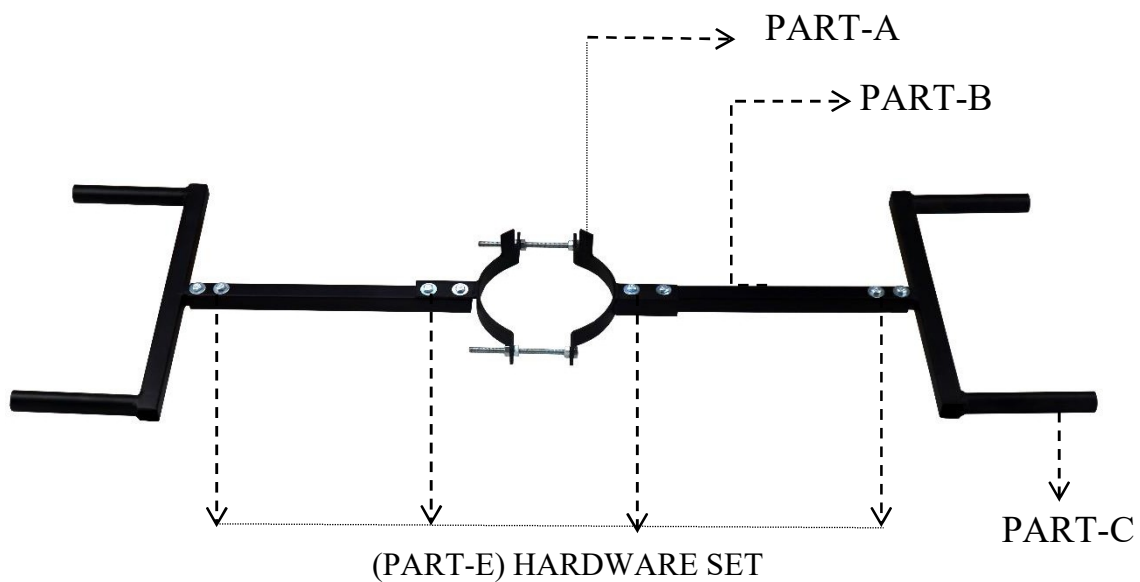
Most Clay Graphite crucibles are designated by a number (such as #1, #2, #3, #4.... #10... etc) based on the melting capacity of Brass. A 10 Kg Crucible can have different diameters and heights. It has a wide dimensional tolerance.

Here are some examples:

Identification No	Capacity	TOD (inch)	Height (Inch)
#10	10 Kg	5.5	6.9
#10	10 Kg	5.5	6.9
#6	10 Kg	6.166	7.5
#10	10 Kg	5.31	6.69
#8	10 Kg	7.5	8.75
#10	10 Kg	5.24	6.5
#8	9 Kg	5.1	6.1
#10	12.3 Kg	5.5	6.9
#10	11.5 Kg	6.3	7.7

Tong Capacity:

10 Kg Crucible minimum size is 5.1-inch x 6.1 inch & maximum size is 7.5-inch x 8.75 inch. This Tong Set is compatible with minimum to maximum range of crucible size.

Part Identification**Crucible Lifting Tong****Crucible Pouring Tong****Tools: Spanner (included)**

PART-A	Crucible Holder (Pouring Tong Ring)	1 Nos
PART -B	Pouring Handle Attachment	2 Set
PART-C	Pouring Handle	2 Nos
PART-D	Crucible Lifting Tong	1 Nos
PART-E	Hardware set (Hex Bolt Nut & Washer)	8 Set
Tools	Spanner	1 Nos

Assembly Instructions

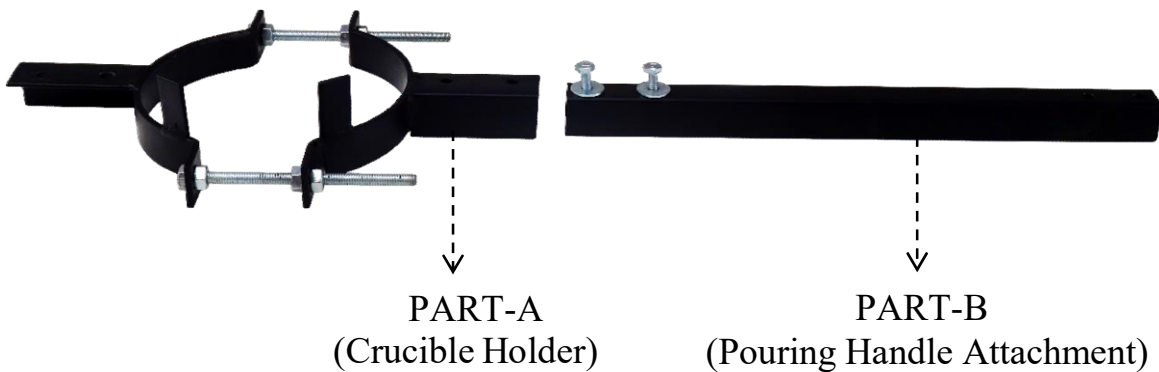
Lifting Tong is already preassembled so no need to assembled it.

Pouring Tong Assembly:

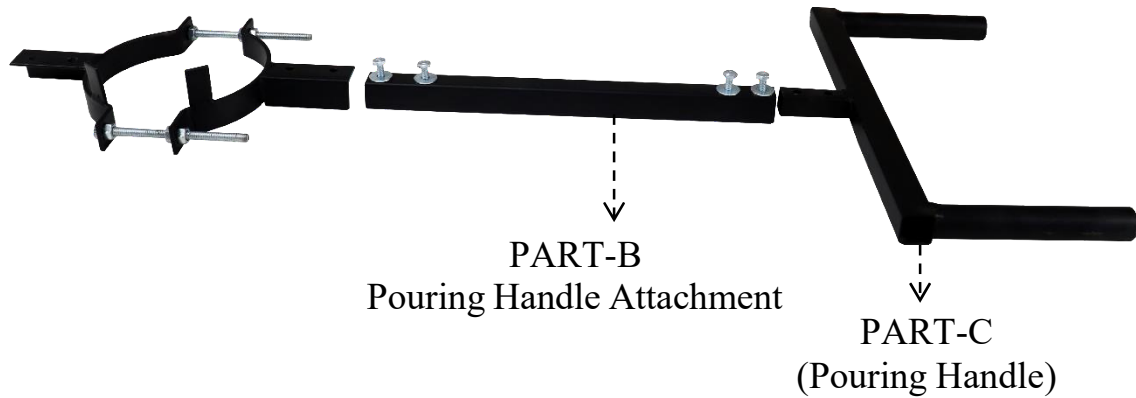
1. **PART-A: Crucible Holder (Pouring Tong Ring)**- It is preassembled part of pouring tong.



2. Connect **PART-B** (Pouring Handle Attachment) and **PART-A** (Crucible Holder) with the help of nut bolt & washer set. Details shown in fig.



3. Connect **PART-C** (Pouring Handle) with handle attachment with the help of nut bolt & washer set. Details shown in fig.



4. Do the same other side of Crucible Holder(**PART-A**)

Safety Instructions

- When using crucible tongs or working in an environment with heat and molten metal, always wear safety goggles and gloves.
- Crucible tongs should not be used for electrical applications because they are mostly made of metal and thus not shock resistant.
- Make sure the container being held by the crucible tongs is not completely full to avoid spillage.
- The force applied by the user to the crucible tongs should be adequate, that is, neither too much nor too little. This is because too much force may crack and break the container, while too little force will prevent the user from gaining a proper grip on the object.

Directions of Use

The jaw of the crucible lifting tongs is sealed with foam block when received, it is packaging material. It is necessary to remove it before use.

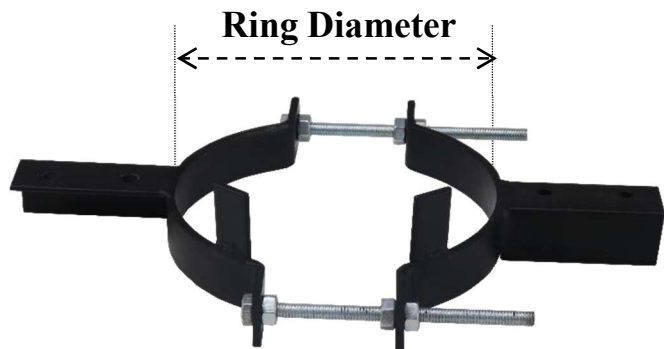
Pouring Tong Set Up Instruction:

Due to variation in crucible dimension, you may need to increase/decrease the diameter of pouring tong Crucible holder.

Place your crucible in the crucible holder of the pouring tongs before beginning the melting session. If you need to change the diameter of the crucible holder, please see the instructions below.



(STEP-1)
Measure your crucible top diameter(TOD)



(STEP-2)
Check the inner diameter of the pouring tong ring and set the diameter according to the crucible TOD. The ring diameter should be 3-5mm less than the crucible diameter. (For example, if your Crucible TOD is 154mm, the diameter of your pouring tong ring should be 150mm.)



(STEP-3)
Check your crucible in the Pouring tongs ring. After final assembly, tighten all bolts with a spanner.