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# **PROPANE MELTING FURNACE USER MANUAL**



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### NEED HELP? CONTACT US!

Have product questions? Need technical support? Please feel free to contact us:

**[www.Lmine.com](http://www.Lmine.com) (775) 786-3003 [ss@Lmine.com](mailto:ss@Lmine.com)**

Please read all manual instructions carefully before operating.



**Important:**

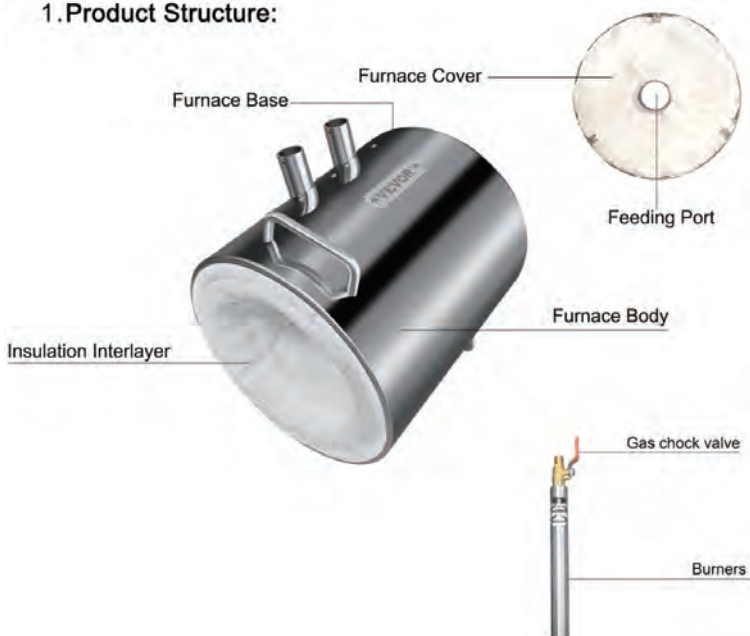
The product needs to be used in a well-ventilated condition. Read these instructions carefully before assembling the hose and regulator units. Leaking gas can be extremely dangerous.

**Note:**

It is not necessary to force these fittings to the extreme, however, it is important to use the proper wrench size when tightening the parts. Once the unit is assembled, turn the gas pressure on from the tank to the ball valve and check all joints for

## GAS MELTING FURNACE

### 1. Product Structure:



### Precautions for use

1. Please ensure the site you are using is open, ventilated, and free of flammable materials.
2. Before using this product, please wear heat-resistant gloves, fire protection masks and other labor protection supplies.
3. Keep a clear escape route in an emergency.
4. Keep the fire extinguisher at hand.
5. The whole smelting process needs to be watched.
6. Prohibit overload smelting to prevent liquid metal from flowing out.
7. Be careful when adding raw materials during the smelting process.
8. The air pipe needs to be connected to the pressure valve and pressure gauge.
9. It is forbidden to melt metals with melting points above 1350°C, such as iron and manganese, otherwise the furnace wall will melt.

10. If used for a long time, the material of the inner wall of the furnace can be replaced.
11. During the melting process, you should not observe the melting state directly, to prevent heat waves from damaging the body. Must take security measures.

## PACKING LIST

	Forge Body	1		Air Chock	1
	Gas Pressure Regulator with Manometer	1		Refractory Bricks (230mm*114mm*20mm)	1
	User Manual	1		Handle	1
	Burner	2		Tongs	1
	12# Graphite Crucible	1			
	Refractory Bricks (115mm*114mm*20mm)	1			

## MOLTEN METAL

Metal Name	Melting Point(°C)	Primary Capacity(Kg)
		12Kg
Copper	1083.4	12
Aluminum	660	3.2
Gold	1064.18	26.6
Silver	961.78	14.4
Zinc	419.53	9.8
Tin	231.89	10.0

### Troubleshooting Instructions

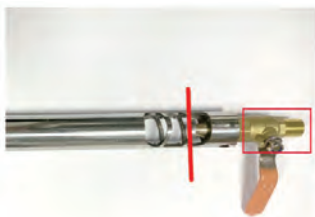
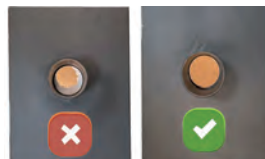
If there is a problem with your forge during operation, please check the troubleshooting table below before calling the service department.

## Troubleshooting Instructions

Fault phenomenon	Cause of issue	Solution
Can't ignite after passing gas	Copper nozzle blocked	please check if have a switch on the regulating valve. When the regulating valve is still not lit after opening the ventilation, please stop the product running. And sink the outlet copper nozzle and the bridge into the bucket, opening the propane gas tank and the regulating valve to see if there are bubbles in the water. if bubble spit out, the problem solved.



Note: Please adjust nozzle's ceramic fiber blanket as shown in the picture before use; ensure that the blanket does not block the burner's nozzle. Incorrect operation may lead to furnace damage and danger.



1. First, install the gas outlet nozzle to the burner.  
Note: Screw the nozzle to the red line. Then tighten the screws above.



2. Connect the air line to the connector and tighten the nut.



3. Connect the Regulator to the propane container.



4. Link and screw the burner into the furnace.



5. Open the gas inlet that increases gas circulation. (Make the flame stronger)



6. Put the crucible into the furnace, open the Regulator and ignite the gas.

## IMPORTANT NOTICE

1. Check if the gas regulator is open.
2. Check if the gas cylinder is enough.



Use of gold melting furnace



Use of forging furnace

## TECHNICAL PARAMETERS

Capacity	Product Size (mm)	Crucible Size (mm)	Package Dimensions (mm)
12KG	Φ270*H350	Φ154*H192	440*370*370
Melted Metal	Gold, Silver, Aluminum, Copper, Brass, Bronze, Tin K gold and other many metal (Metal with a melting point below 1350℃)		
Maximum Temperature	1482℃(2700°F)		

### Cautions and Warnings

Failure to follow the Cautions and Warnings contained in this assembly Instruction may result in serious bodily injury, death, a fire, or an explosion causing property damage.

1. **WARNING** - Improper assembly of forge may be dangerous. Follow the assembly instructions carefully.
2. **WARNING** - Do not use the forge unless all parts are in place. The forge must be properly assembled according to the assembly instructions by a qualified professional.
3. **CAUTION!!!** Never under any circumstances should the exhaust ports be closed off completely on the doors or open end ports. This could cause serious damage and body injury.
4. Avoid standing or moving to the front of openings and exhaust ports. Extremely high temperatures extend approximately two feet from any openings while in operation. When retrieving objects from a hot forge approach it from the side or bottom. A little practice will help you acquire a skill for this procedure.
5. Station the anvil approximately four to five feet to the side of the forge opening to avoid heat when the forge is in operation.
6. The unit will heat large objects to forging temperature with the door open, but it will take a little longer.
7. Never leave the line pressure on when not in use. Always cut the ball valve and tank valve off

for storage.

8. Propane gas has a strong odor. Never continue to run the unit if the smell of gas is present. Shut the unit down and check all connections with soapy water for leaks. NEVER use flame to check for gas leaks. Do not resume use until proper repairs are made by a qualified gas company or until you contact the manufacturer for assistance.

9. All valves, gauges, regulators, and hoses should be checked weekly for wear. Replace as needed. Gas equipment must be well maintained.

10. When the ceramic fiber liner becomes thinner than one inch, proper insulation is not achieved. Replacement liners can be purchased from your local dealer or the manufacturer. Be sure to give model number and style of forge when ordering. When it is time to reline your forge, you should wear gloves and a dust mask when handling the used liner. Before removal, the old liner should be wet down thoroughly with a spray bottle of water. After removal, it should be placed in a plastic bag and disposed of immediately. Complete instructions are included with the purchase of a new liner.

11. Do not allow the hose to come in contact with hot steel or flames.

12. During operation, the user should always stay in the immediate vicinity of the forge. Never leave fired forge unattended.

13. When operating your product: Keep hair and clothing away from chamber. Do not touch the furnace while in use or until sufficient cooling time has passed. The forge generates extremely high temperatures that can cause severe burns or a fire.

14. Burn Hazard: When using the forge, the surface temperatures of the forge and components will reach up to 600°F. Do not touch any part of the forge while the forge is heating up or hot. Do not place the forge near a wall or flammable material. Allow for the forge to fully cool down before handling.



### **About storage conditions and transportation**

It shall be stored on wooden, painted steel shelves or rubber pads and shall be separated from other steel to avoid dust, oil and rust corroding the stainless steel surface.

Stainless steel transportation: It is better to use transportation tools and isolation facilities to reduce the corrosion of air and dust on stainless steel products.

### **Maintenance and cleaning**

Placed in a ventilated and dry place

Do not scratch the surface with sharp and hard objects



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