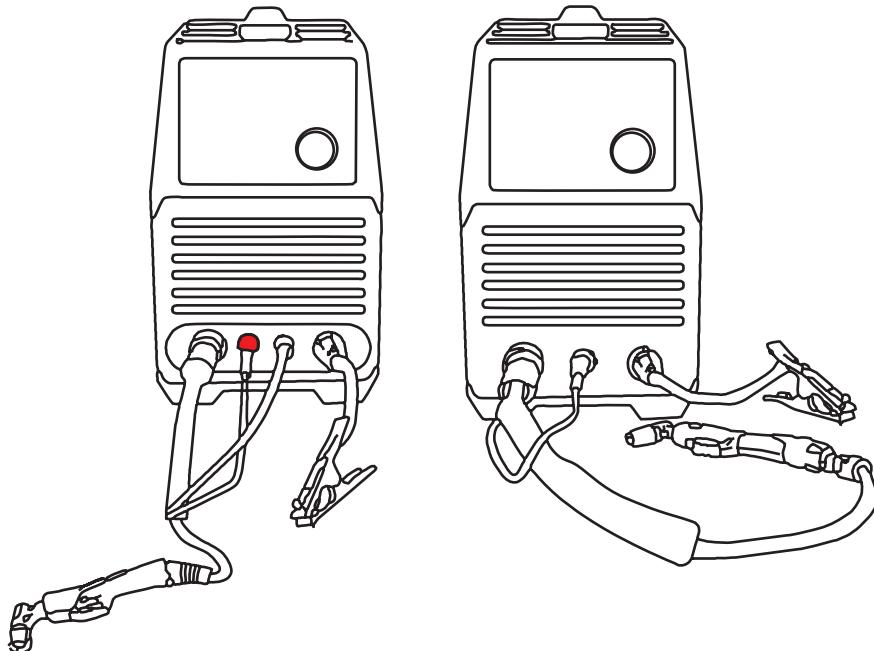




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## Plasma Cutter Operation Manual

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**RBC6000/RBC6000D/RBC6000 PRO/RBC6000D PRO  
RBC6000L/RBC6000DL/RBC6000L PRO/RBC6000DL PRO  
RBC4000LF/RBC6000DLF**



Just weld and cut



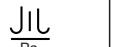
### VIP-WELDER SERVICE CENTER

 E-Mail	Europe and UK:Service-eu@mirthtek.com North America:Service@mirthtek.com South America and others:nancy@weldvip-service.com
 Mobile	+86 18938887689
 Wechat	+86 18938887689
 WhatsApp	+86 18938887689
 Facebook	Reboot Welding Solutions
 Ins	weldflowhub

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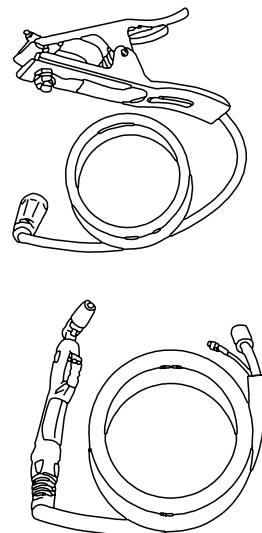
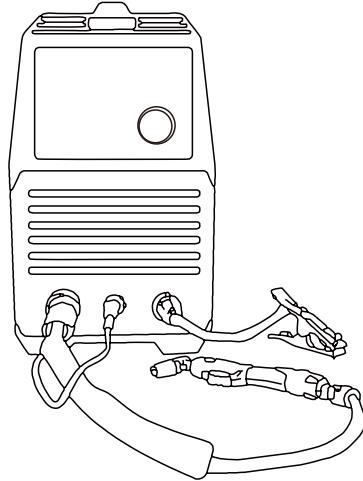
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# 1. Product Brief Introduction

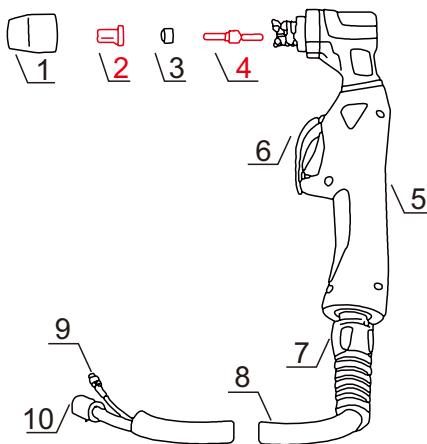
 Model	RBC6000DLF RBC6000D RBC6000DL RBC6000D PRO RBC6000DL PRO	 Input Voltage	AC120 50-60Hz AC240 50-60Hz	 Circuit Breaker	120V:55A 240V:40A
	RBC4000LF RBC6000 RBC6000L RBC6000 PRO RBC6000L PRO		AC240V 50-60Hz		240V:40A
 Duty Cycle	20%	 Current Range	15-40A 15-60A	 Voltage Range	86-96V 86-104V
 Efficiency	75%	 Protection Class	IP21S	 Power Factor	0.85
 No-Load Voltage	325V	 Rated Power	7KVA	 Weight (Kg)	7KG
 Insulation Class	H	 Size (mm)	440*245*265mm	 Air flow	180~200 l/min 6.4~7.1 CFM
 1.0mm	 120V-35A			 240V-60A/40A(LF)	
 J1L Pa	 δClear	 δmax	 J1L Pa	 δClear	 δmax
 Fe	70psi	8mm	12mm	75psi	12mm
 Ss	70psi	8mm	12mm	75psi	12mm
 A1	70psi	2mm	4mm	75psi	3mm
 Cu	70psi	2mm	3mm	75psi	3mm
					6mm
					5mm

## 2. Accessories list

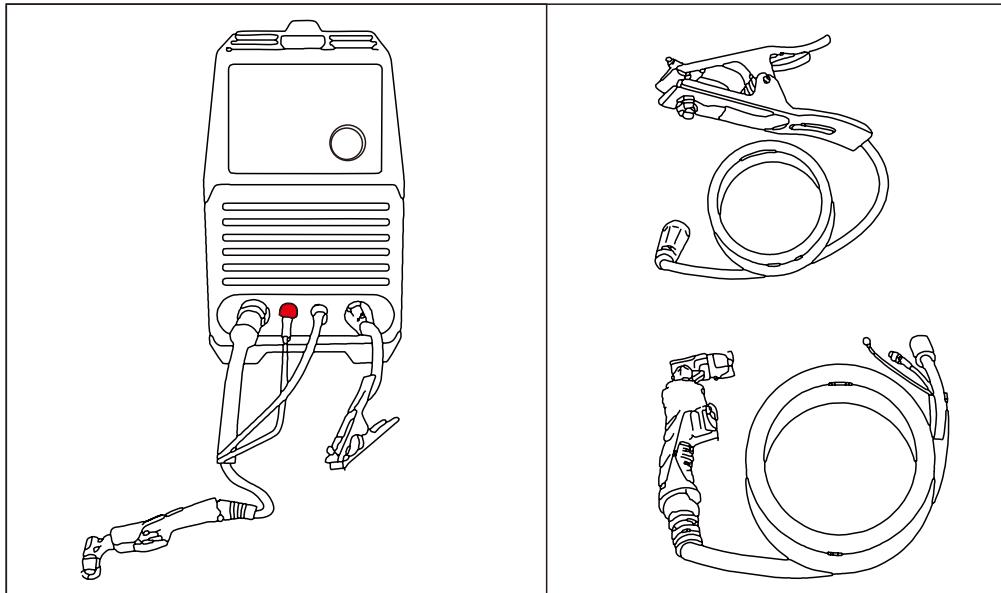
### 2.1 Touch Arc RBC6000、RBC6000 PRO、RBC6000D、RBC6000D PRO



**PT31 Gun**  
Replace Parts:2,4

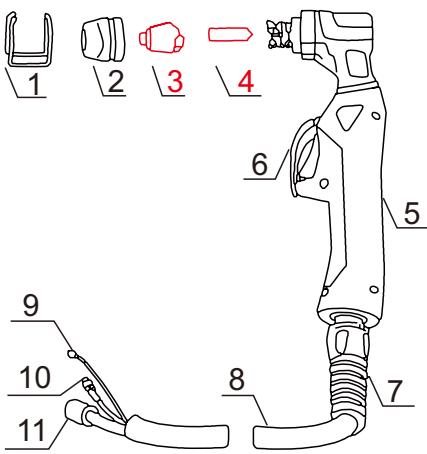


## 2.2 Pilot Arc RBC6000L, RBC6000DL, RBC6000L PRO, RBC6000DL PRO

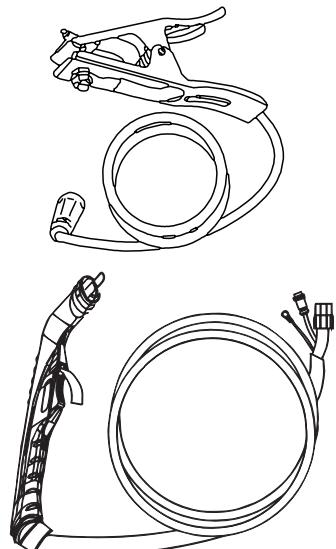
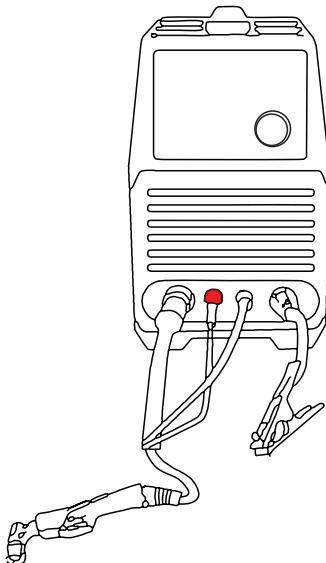


## AG60 Gun

Replace Parts:3,4

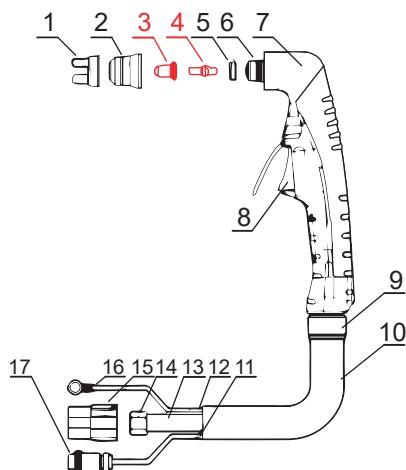


## 2.3 Pilot Arc RBC4000LF、RBC6000DLF



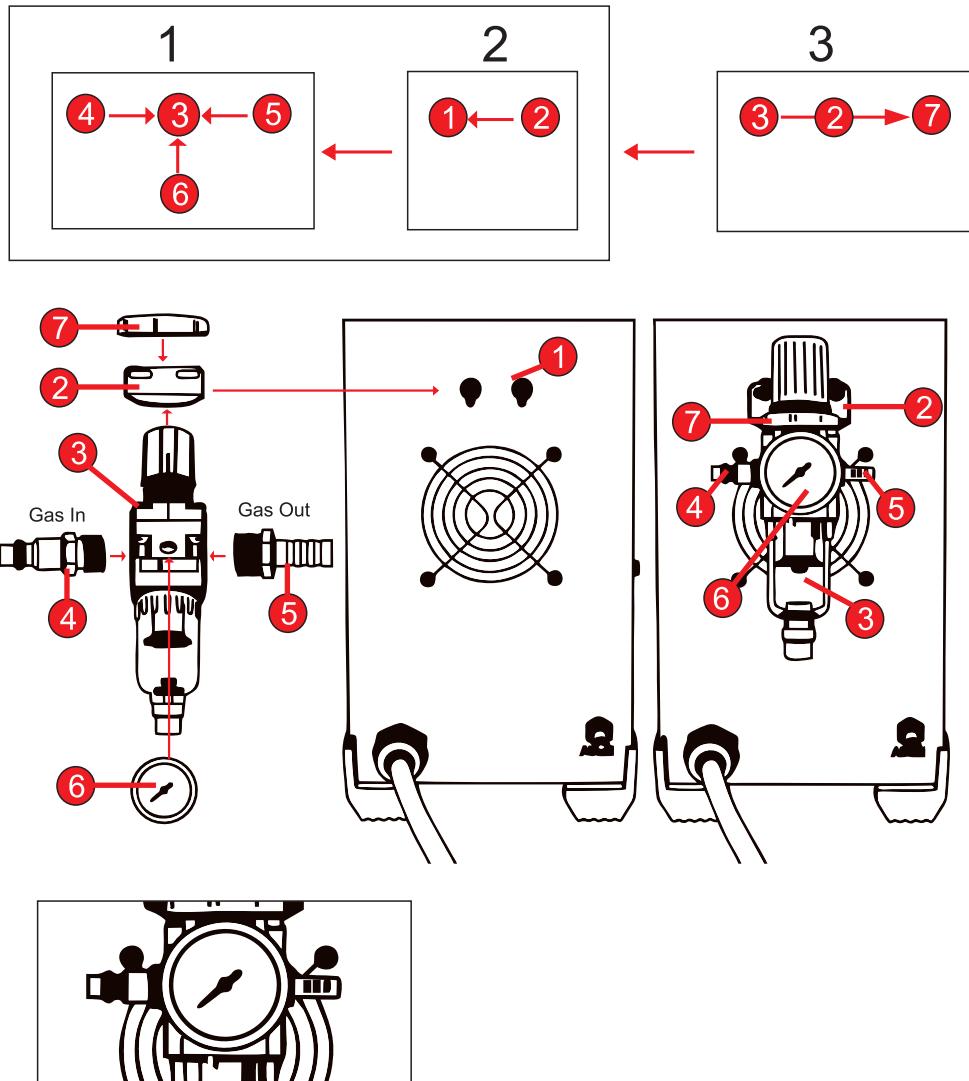
## PT40 Gun

Replace Parts:3,4



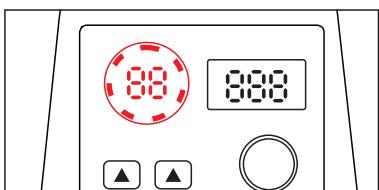
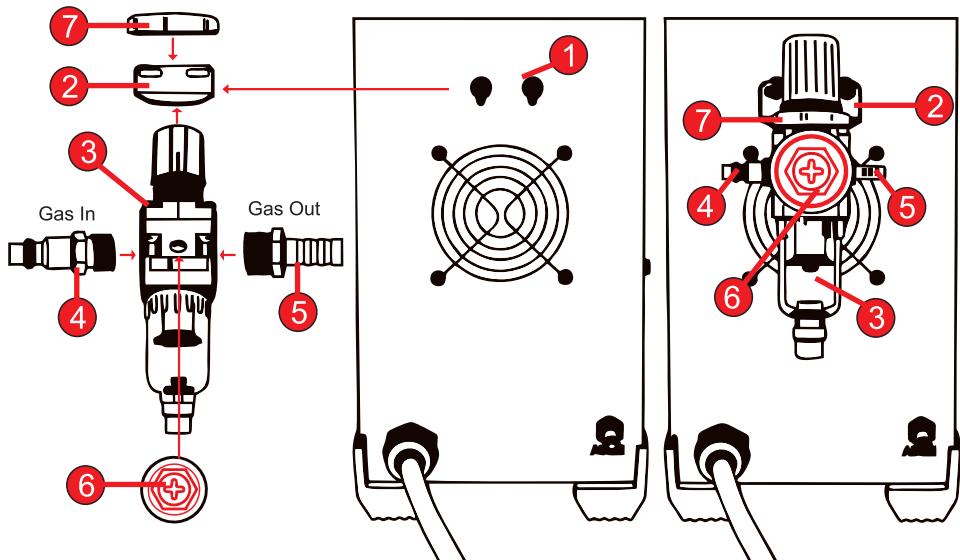
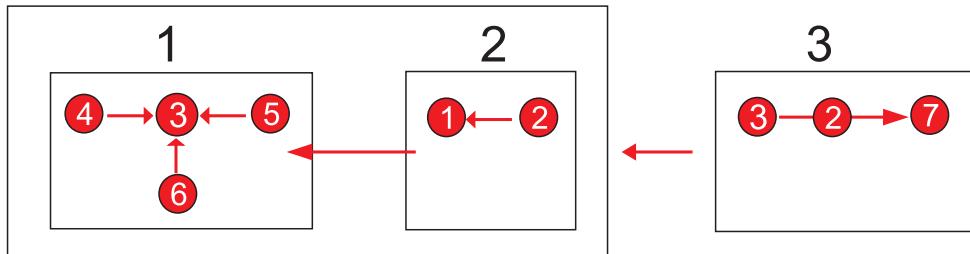
### 3. Installation of Air Regulator

#### 3.1 RBC6000、RBC6000D、RBC6000L、RBC6000DL



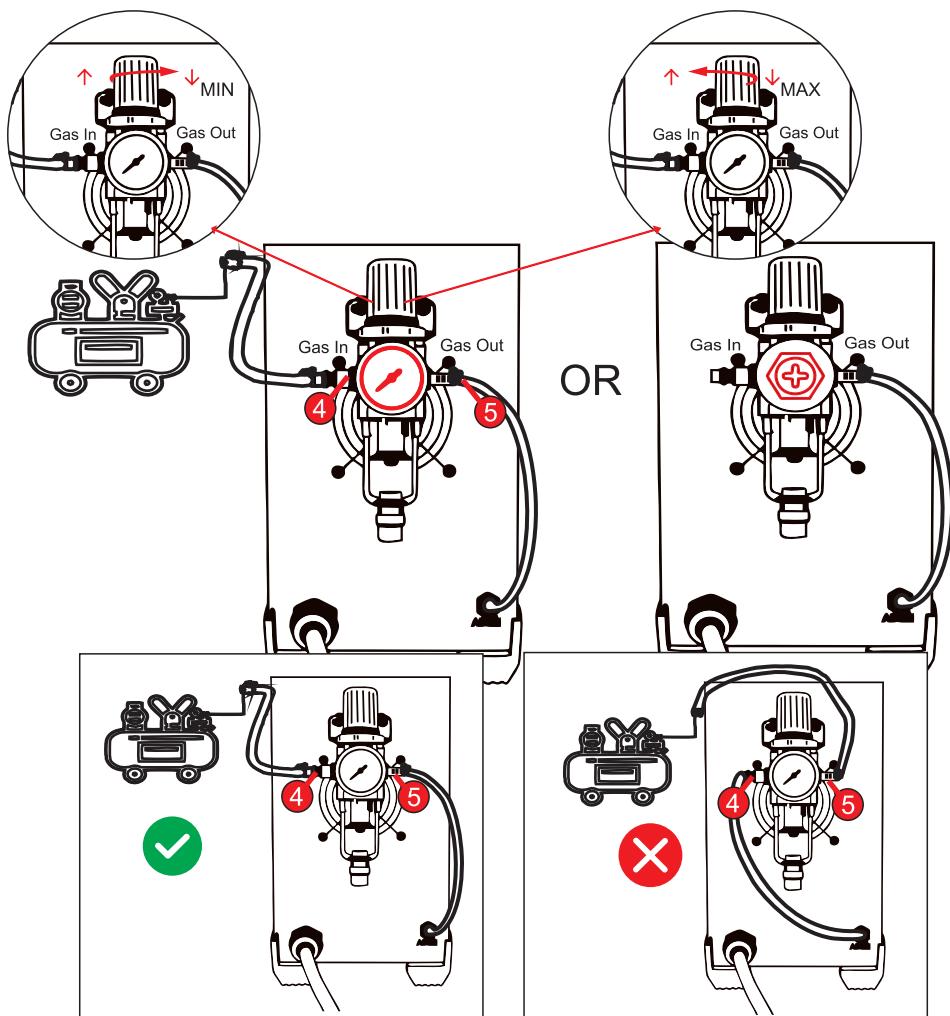
Air Pressure Display

3.2 RBC6000 PRO、RBC6000L PRO、RBC6000D PRO、RBC6000DL PRO  
RBC4000LF、RBC60000DLF



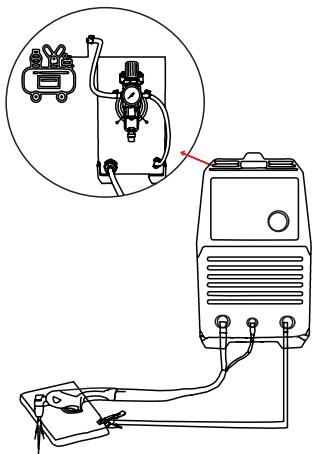
Air Pressure Display

## 4. Air compressor connection

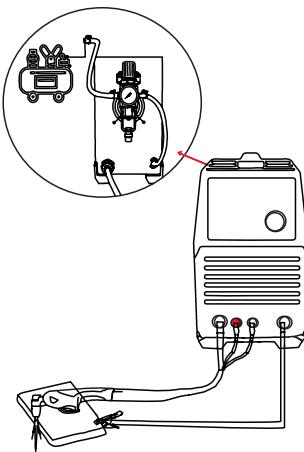


## 5. How to Work

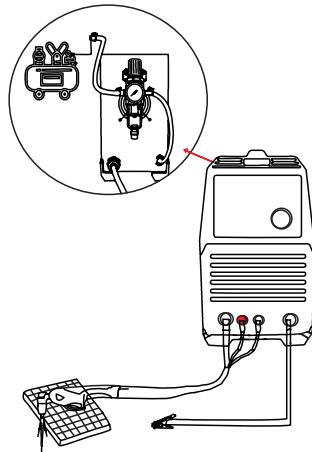
### 5.1 Touch ARC



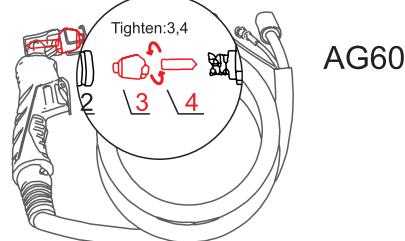
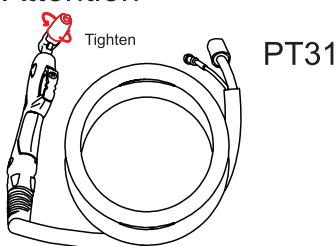
### 5.2 Pilot Arc



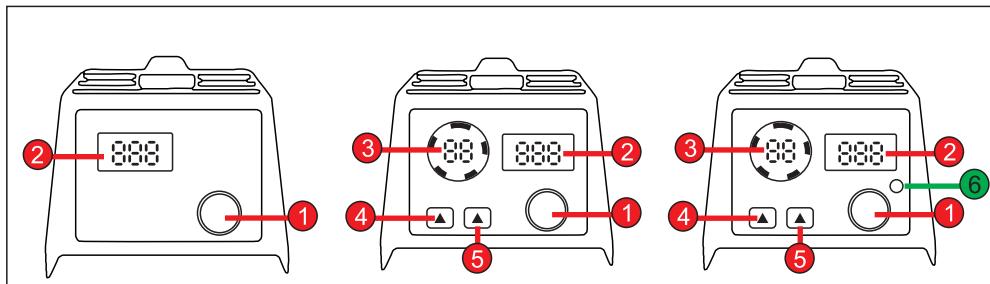
### 5.3 Pilot Arc Mesh



### 5.4 Attention



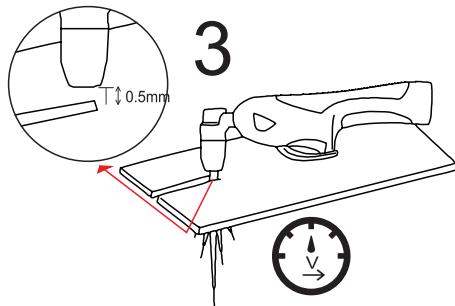
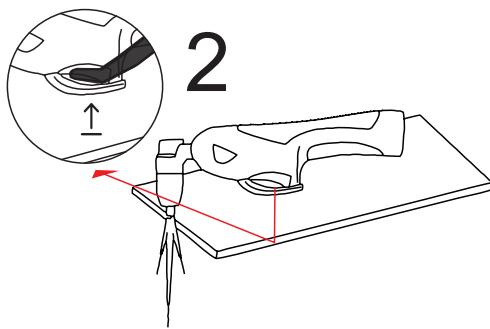
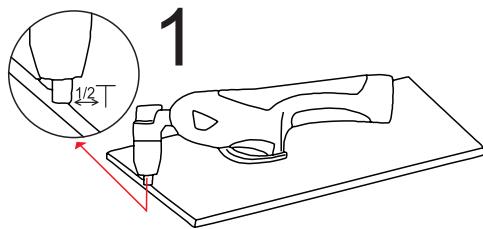
## 6. Operation panel interface



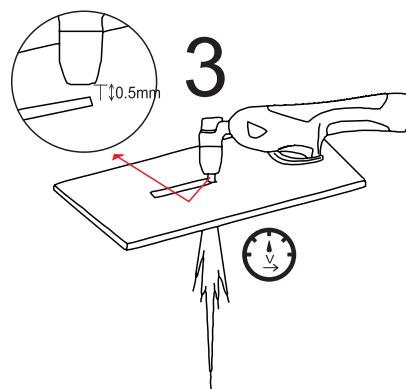
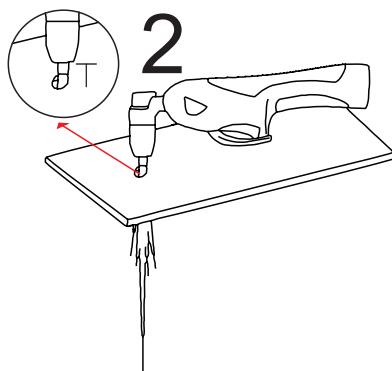
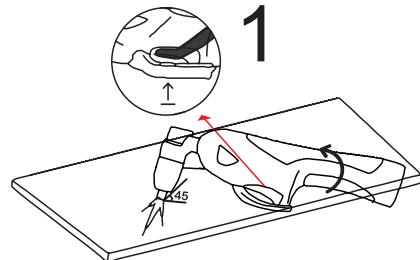
RBC6000 RBC6000D RBC6000L RBC6000DL	RBC6000D PRO RBC6000DL PRO RBC6000DLF	RBC6000 PRO RBC6000L PRO RBC6000LF RBC4000LF
①	Current Adjust Knob	
②	Current Display	
③	Air Pressure Display	
④	【Post Air】 【Pilot Arc】 【Air Pressure】 Choice	
⑤	【2T】 【4T】 【Air Testing】 Choice	
⑥	【Low Wattage】 Press ① and Hold 3 seconds: ON/OFF   Disable for high-power use	

## 7. Start Cutting

### 7.1 Edge cutting

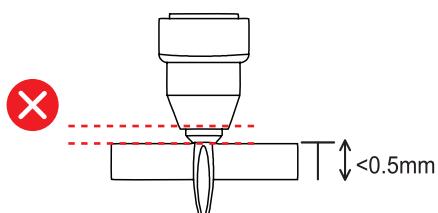
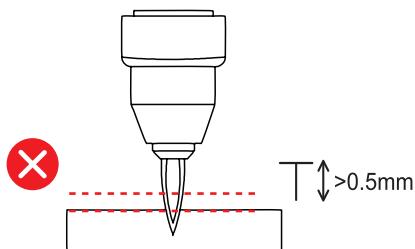
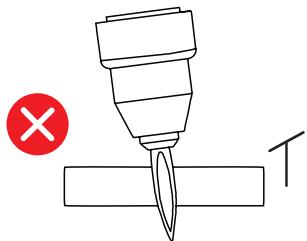
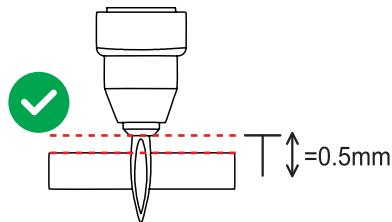


### 7.2 Piercing Cutting

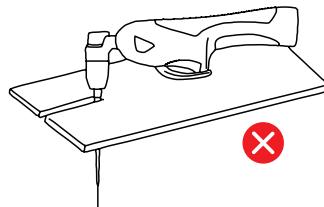
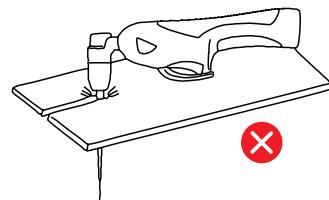
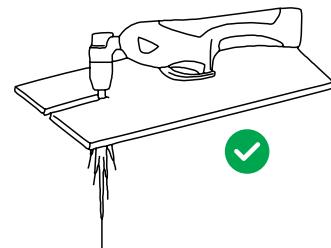
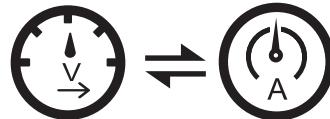


## 8. Hand torch cutting Show

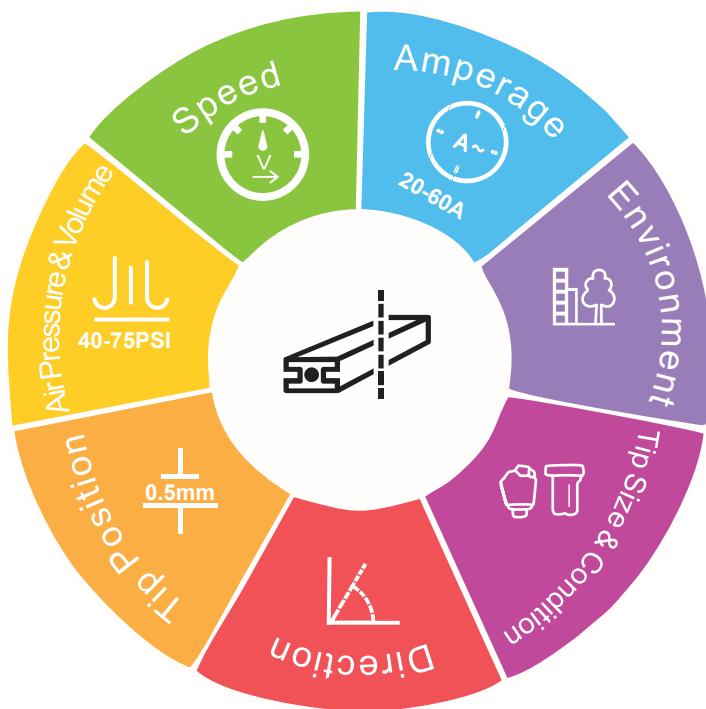
### 8.1 Torch tip height & position



### 8.2 Speed and Amperage



# 9. Cutting Performance Impact



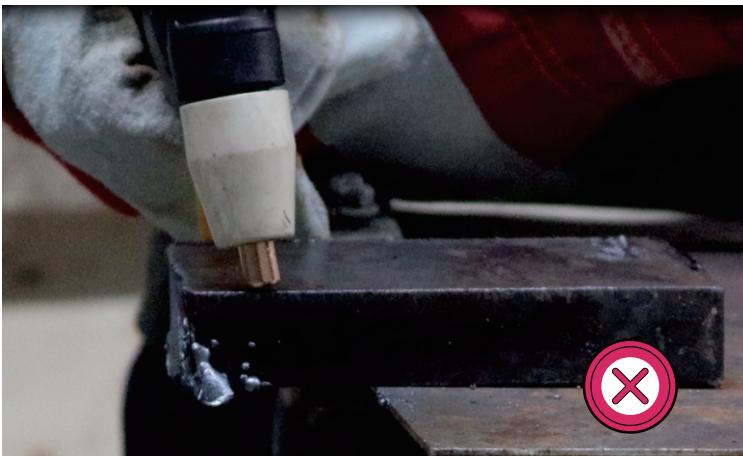
<b>WARNING</b>	
<b>Do Not Remove, Destroy, Or Cover This Label.</b>	
 <b>ELECTRIC SHOCK</b> can kill <ul style="list-style-type: none"><li>• Wear dry protective apparel</li><li>• Avoid contacting work piece or ground</li><li>• Avoid contact with electrically live parts</li><li>• Do not touch work piece and welding wire at the same time</li><li>• Use only recommended cables and cords</li><li>• Connect ground clamp as close to the welding area as possible</li><li>• Disconnect power when servicing this welder</li></ul>	 <b>FIRE HAZARD</b> <ul style="list-style-type: none"><li>• Remove all flammable materials within 35 feet of the cutting arc</li><li>• Keep flying sparks from entering cracks or hidden areas</li><li>• Keep a fire extinguisher close</li><li>• Wear oil-free garments without pockets or cuffs</li><li>• Do not weld on closed containers</li></ul>
 <b>FUMES AND GASES</b> can injure your health <ul style="list-style-type: none"><li>• Do not breathe fumes emitted by the welding process</li><li>• Do not weld coated or plated materials(galvanized, cadmium, zinc, mercury, barium)</li><li>• Use ventilator when necessary</li><li>• Know the danger of materials you are welding</li><li>• Refer to MSDS sheets for welding wire and materials being welded</li></ul>	 <b>ARC RAYS</b> can injure eyes and burn <ul style="list-style-type: none"><li>• Always wear a helmet with full face and neck protection with shade#10 lens</li><li>• Use helmet that meets ANSI standards</li><li>• Wear correct eye, ear, and body protection</li><li>• Warn people in the cutting area when you are staring an arc</li></ul>
<b>Read the operator's manual for more safety information</b>	 <b>PLASMA ARC CAN CAUSE INJURY</b> <ul style="list-style-type: none"><li>• Use torch(es) specified in instruction manual</li><li>• Disconnect power source before disassembly of the torch</li><li>• The shield cup must be installed prior to operation of the torch</li><li>• Do not point plasma torch at body parts</li><li>• Do not hold material near cutting path</li><li>• Keep clear of torch tip while in use</li></ul>
	 <b>MAGNETIC FIELDS</b> <ul style="list-style-type: none"><li>• Keep people with pace makers away from your cutting area</li><li>• Keep PLASMA torch and ground cables on the same side of your body</li><li>• Do not wrap cable around your body while cutting</li></ul>

**1. Rest assured, 95% of all issues with the operation of the machine can be resolved by following the steps below.**

**2. Three key points for using a cutting machine. Beginners are advised to start with cutting thin sheets and practice more.**

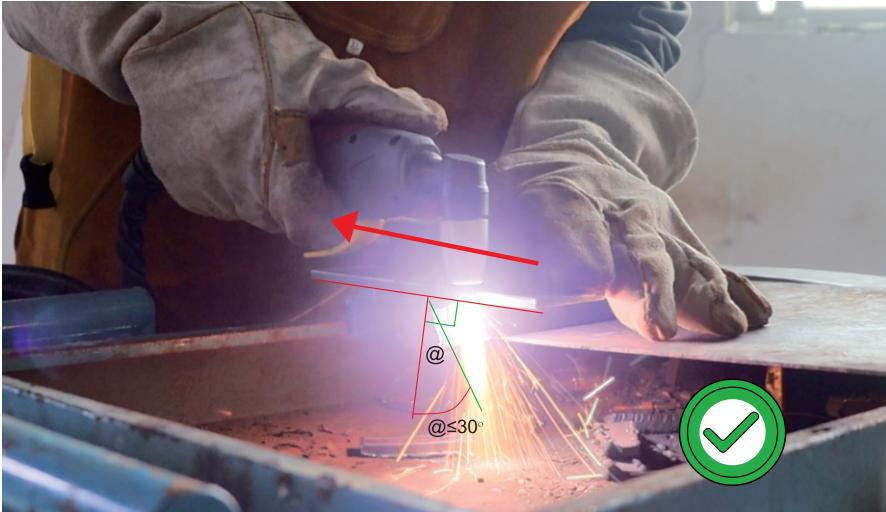
## Before cutting:

1. Ensure the torch head is perpendicular to the workpiece.
2. Position the midpoint of the holes in the nozzle in line with the edge of the workpiece.
3. Start the arc by pressing the torch trigger and move slowly forward, stopping the torch head until the cutting arc is as vertical as possible before proceeding.
4. If the cut isn't penetrating, slow down the torch movement and try cutting again elsewhere.
5. It's normal for beginners to struggle at first, so start with thinner plates, around 3mm.



## During cutting:

1. Keep the torch head perpendicular to the workpiece throughout the cutting process.
2. Ensure the angle of the downward spark spray is no more than 30 degrees from vertical.
3. Slow down the torch movement if the angle is too large until it's less than 30 degrees.
4. If there's a spark spray back, stop cutting and restart from a new point.



## Ending Cutting:

- 1.Pause the torch momentarily when reaching the end of the workpiece,waiting for the cutting arc to become as vertical as possible and the edge of the workpiece to turn red before slowly moving the torch forward to complete the cut.
- 2.If there's a spark spray back, pause cutting immediately to avoid damaging the torch parts.
- 3.It's normal for beginners to experience spark spray back,so prepare extra parts and practice more.



## 3. Pay attention to timely replacement of vulnerable parts.

### ① Fitting



If the Hafnium wire at the electrode tip is Deformed nozzles must be replaced recessed by 2mm, replace the electrode; Electrode both ends can be used.



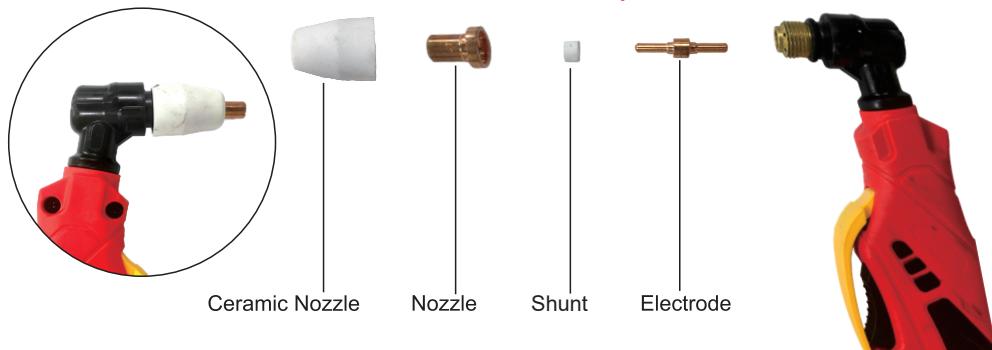
Scan to buy consumables on shops



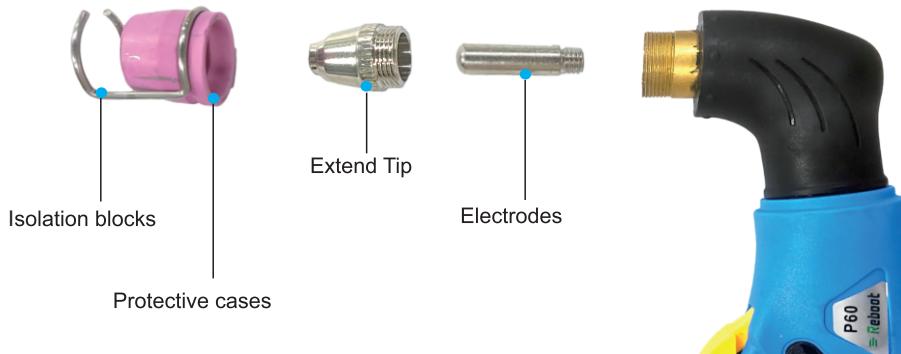
# 10. Cutting Guide

## ② cutting torch setup

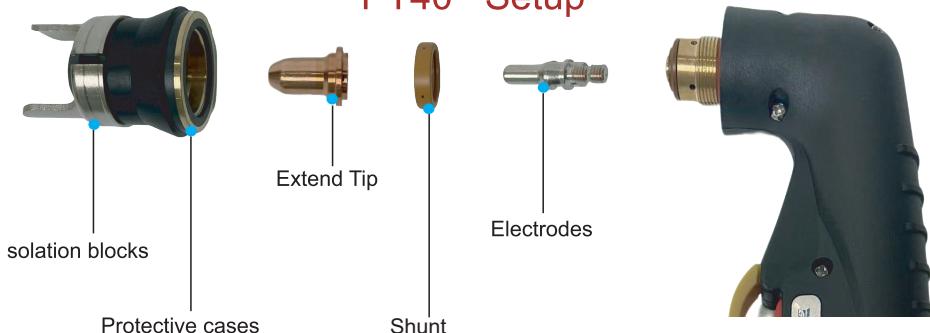
### PT31 Setup



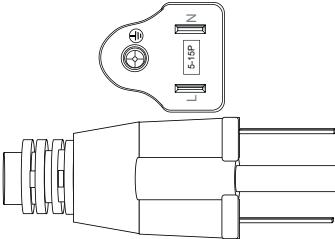
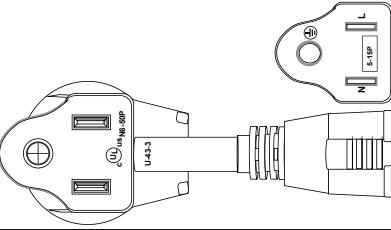
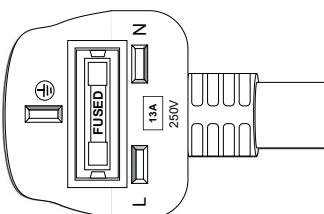
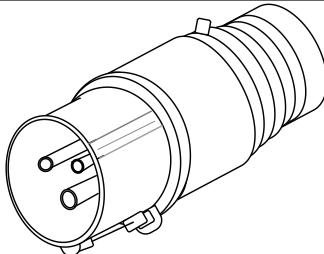
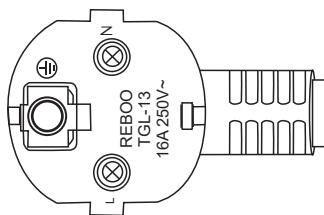
### AG60 Setup

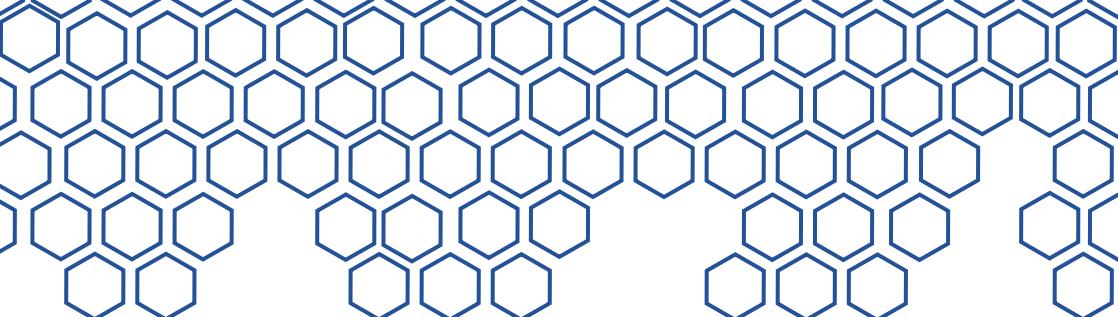


### PT40 Setup



# 11. Plug Type

<p>America Plug</p> 	<p>US Conversion Line</p> <p>Compatible with 120V/240V NEMA plugs</p> 
<p>British Plug</p>	
<p>Important Safety Notice</p>	
 <b>WARNING: Electrical Hazard Risk</b> 	
<p>To ensure safe operation of your equipment:</p>	
<p>1. REPLACE the existing 13A UK plug with a 16A UK plug before connecting the device. The 13A plug is NOT SUITABLE for high-power loads and may overheat, causing fire or equipment damage.</p> <p>2. VERIFY that your home's circuit breaker for the outlet is rated for 30A or higher. A</p>	
<p>lower-rated breaker may trip frequently or fail to protect against electrical faults, risking fire or electric shock.</p>	
<p>DO NOT USE THE DEVICE until both requirements are met. Failure to comply may void warranties and pose severe safety hazards.</p>	
<p>If unsure, consult a qualified electrician to confirm compatibility with your electrical system.</p>	
<p><b>Safety First!</b> Neglecting these steps may result in injury, damage, or legal non-compliance.</p>	
<p>13A</p> 	<p>16A</p> 
<p>European Plug</p> 	



# **Reboot**

Just weld and cut

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Advanced welding and cutting technology  
leading the industry trend.

