



WELDING EQUIPMENTS  
**ATOM**

**AWE-P1600**

Cold Welding Machine

Intelligent Precision Welding Machine



## ARE YOU STILL USING TRADITIONAL TIG WELDERS ?

Traditional TIG welder or MMA welder is very difficult to weld thin sheet, even well trained operators are not able to finish such welding perfectly. Why? Well that's all because of high heat input for such kinds of welding machines.

Also the finished welding surface will be black, and need more time to do grinding and cleaning.





TIG WELDING



ATOM COLD WELDING



Traditional TIG welding will need at least 4 steps to finish the process, ATOM cold welding only need 1 step.  
(Comparison: <http://www.atomwelding.com/technology-04.html>)

- If you want to simplify the welding process;
- If you care about welding quality;
- If you need a welder which is easy to operate;

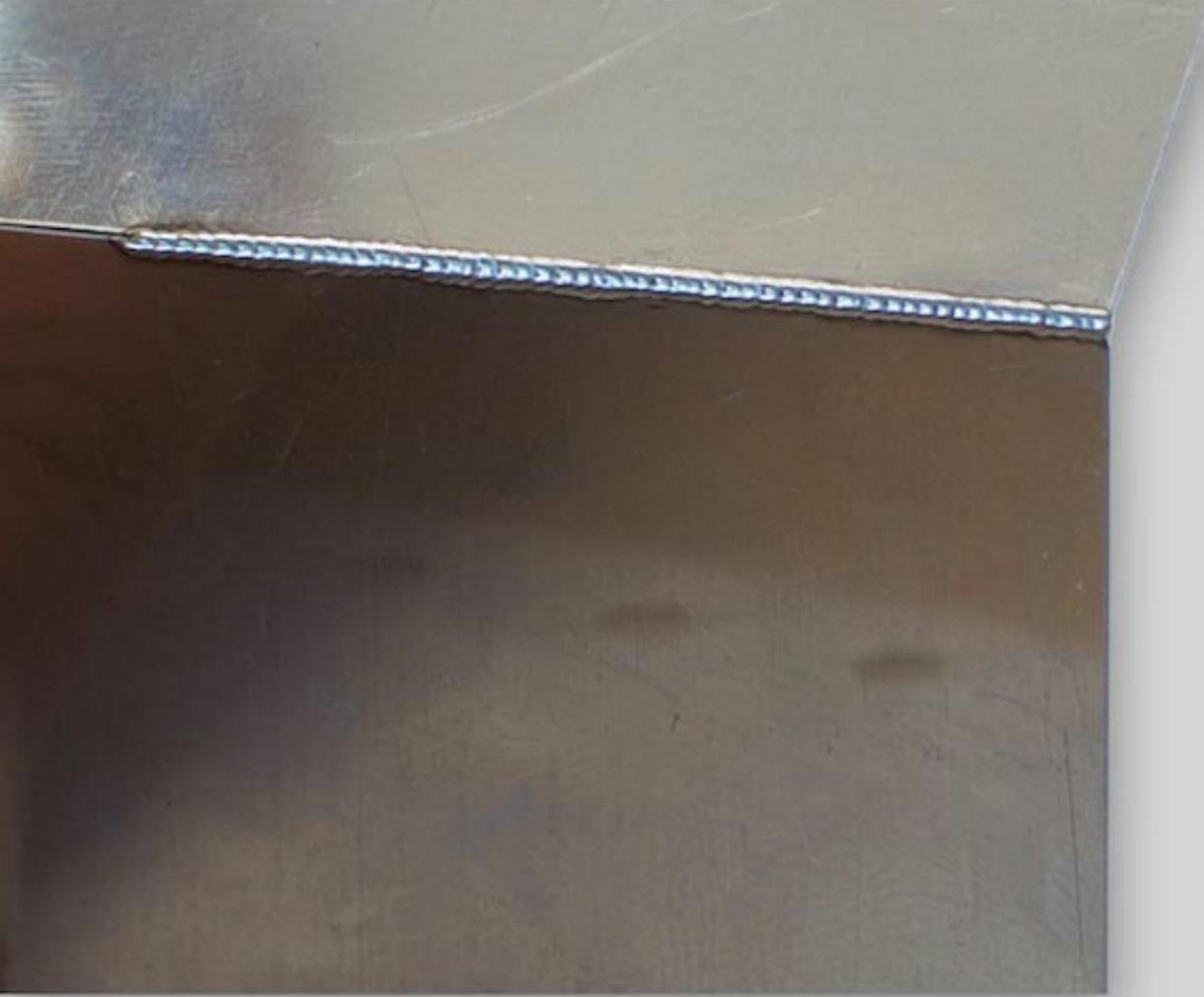
ATOM AWE-P1600 will be your best tool.

# AWE-P1600

EASY TO HANDLE THIN SHEET WELDING

LOW HEAT INPUT | NO DISTORTION | 32 BITS ARM CPU | SIMPLE TO USE





# 0.2MM

AWE-P1600 can weld minimum 0.2mm thickness SS sheet without distortion.

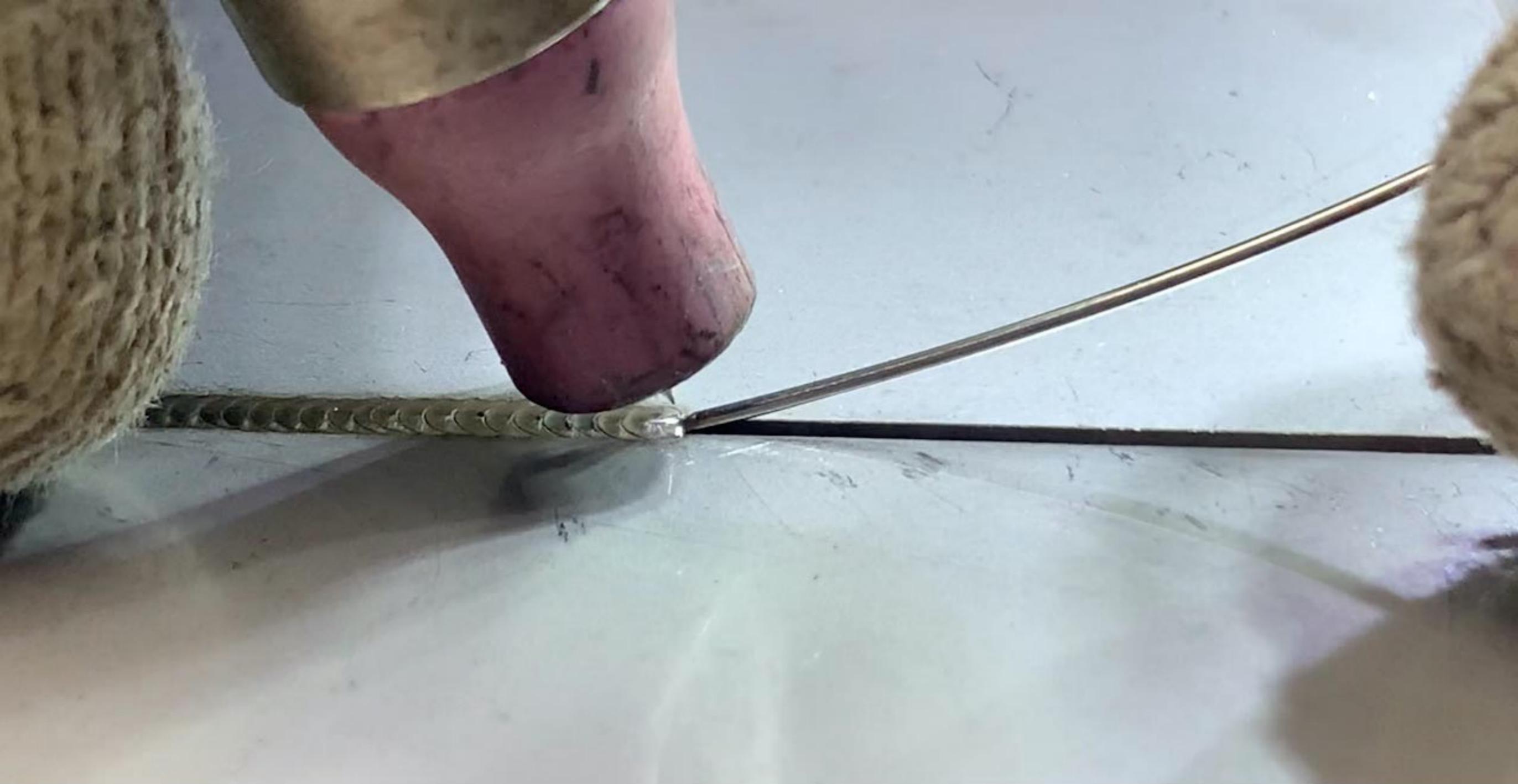
## MAIN FEATURES

The heat input of AWE-P1600 welding machine is very small, so it can easily and accurately weld tiny parts and thin sheet without distortion.

Clean welding surface, no need grinding after welding, no undercut, no porosity. Very easy to operate and very friendly for new users.

Can weld different hardness ferro and non-ferro together.  
(such as: stainless steel and brass)

Can weld thickness range from 0.2mm to 4.0mm.  
Suitable for Stainless steel/Mild steel/Carbon steel/Brass/Silver etc.

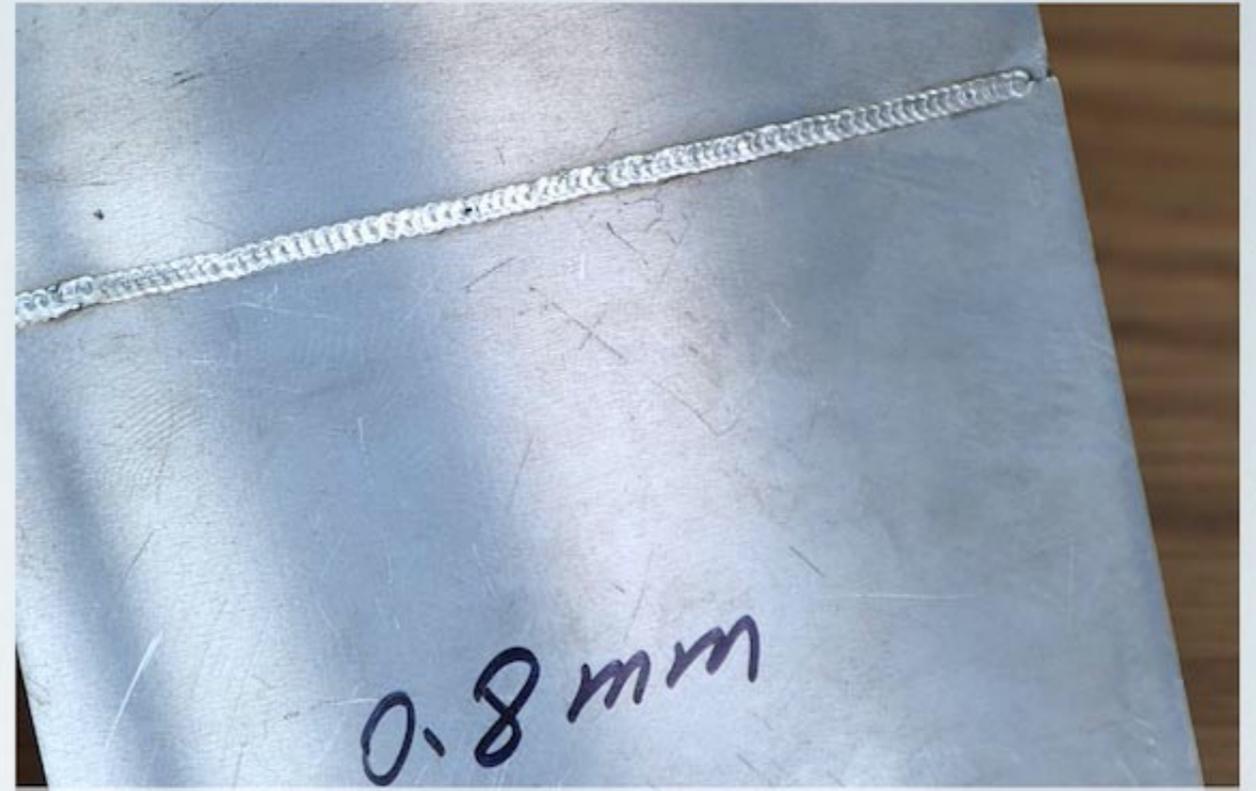


## **AWE-P1600 - The best tool for thin sheet welding**

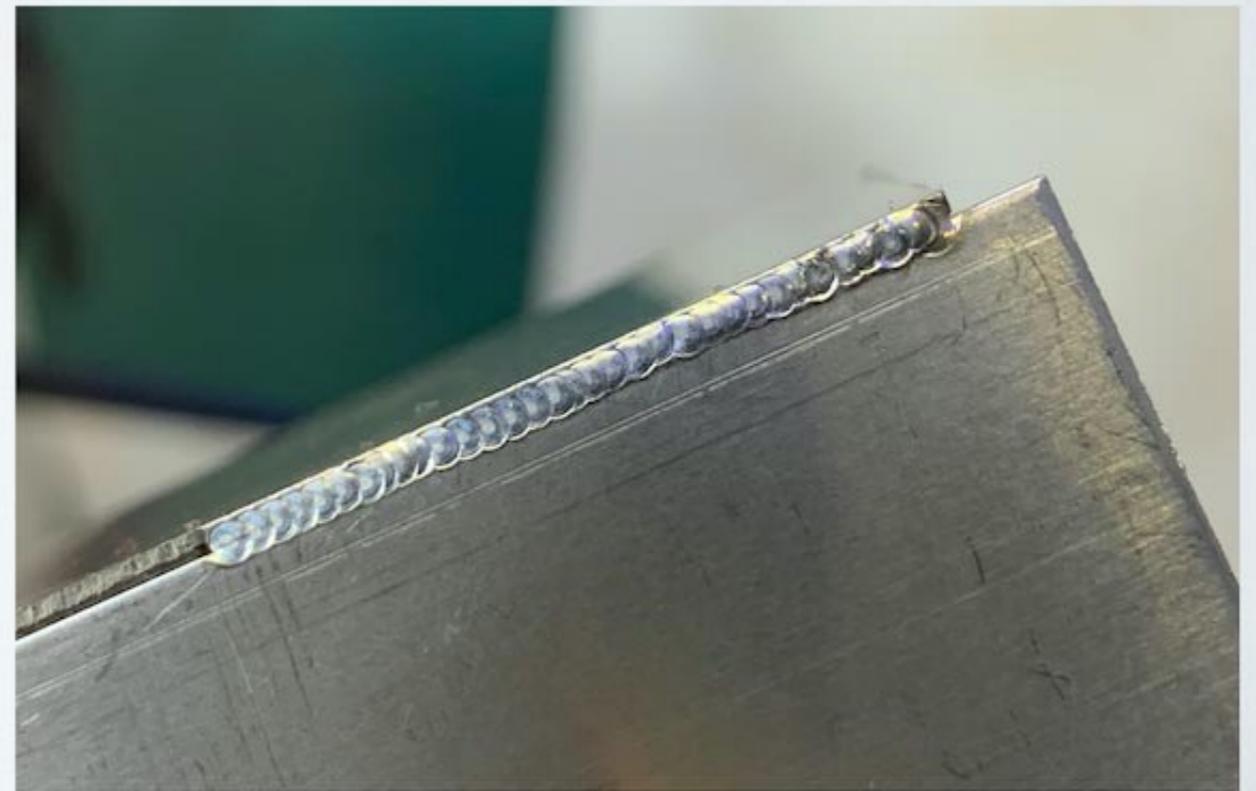
Cold welding process is using the high-energy power stored and release instantly between tungsten and workpiece, through air ionization channels formed an instant high temperature and high pressure region. Due to this process is finished within several millisecond so heat affected zone is very small, it can perfectly finish welding with minimum heat input to avoid distortion and undercut, especially for thin sheet welding.



**GARDEN LIGHTS FRAME WELDING**



**0.8MM MILD STEEL WELDING**



**1.5MM STAINLESS STEEL WELDING**



**0.5MM COPPER SHEET WELDING**



**1.0MM SS ARMREST WELDING**



**ALUMINUM FRAME WELDING**



**SS PIPE AND SHEET WELDING**



**COLOR STEEL WELDING, BACK SIDE**



**HINGE WELDING AFTER GRINDING**



**GOOD SEALING PERFORMANCE, CAN ALSO BE USED IN PRESSURE VESSELS**





**Stainless steel** (0.2MM ~ 4.0MM)



**Galvanized steel** (0.2MM ~ 4.0MM)

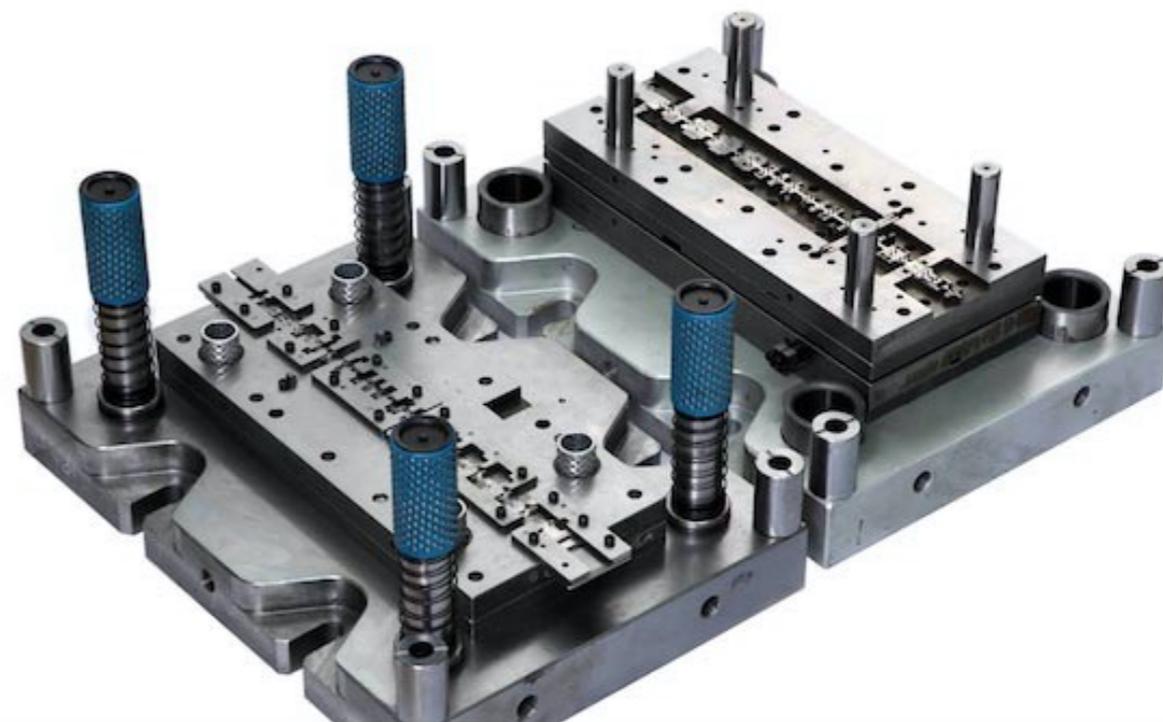


**Brass sheet** (0.4MM ~ 2.0MM)

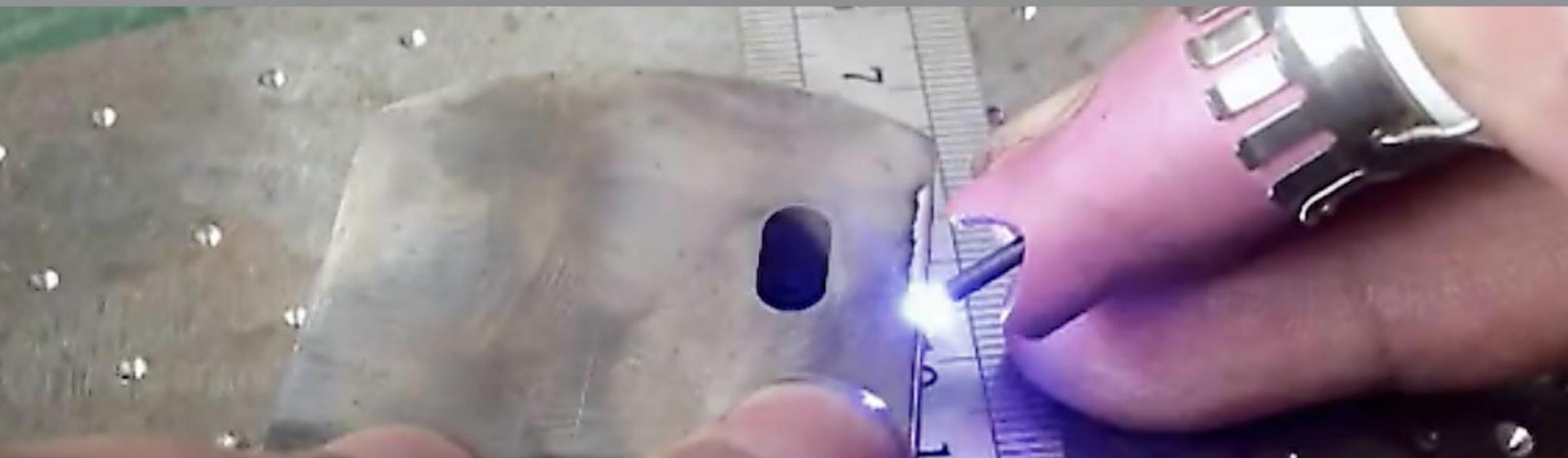
**WELDING  
THICKNESS  
RANGE**



**Steel mold repair** (any thickness)



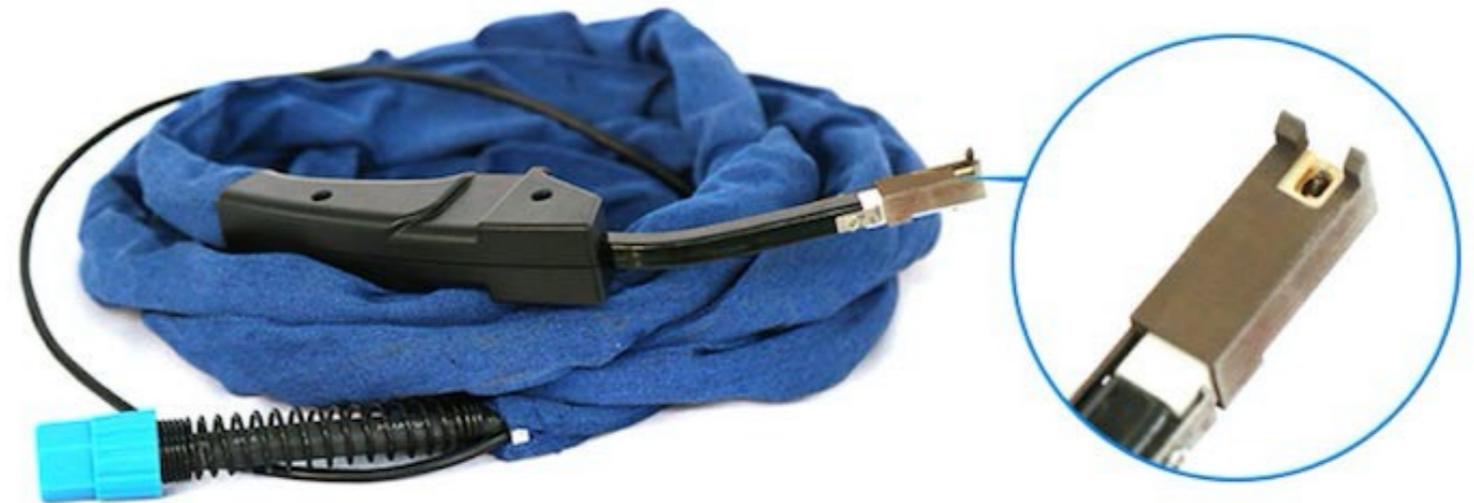
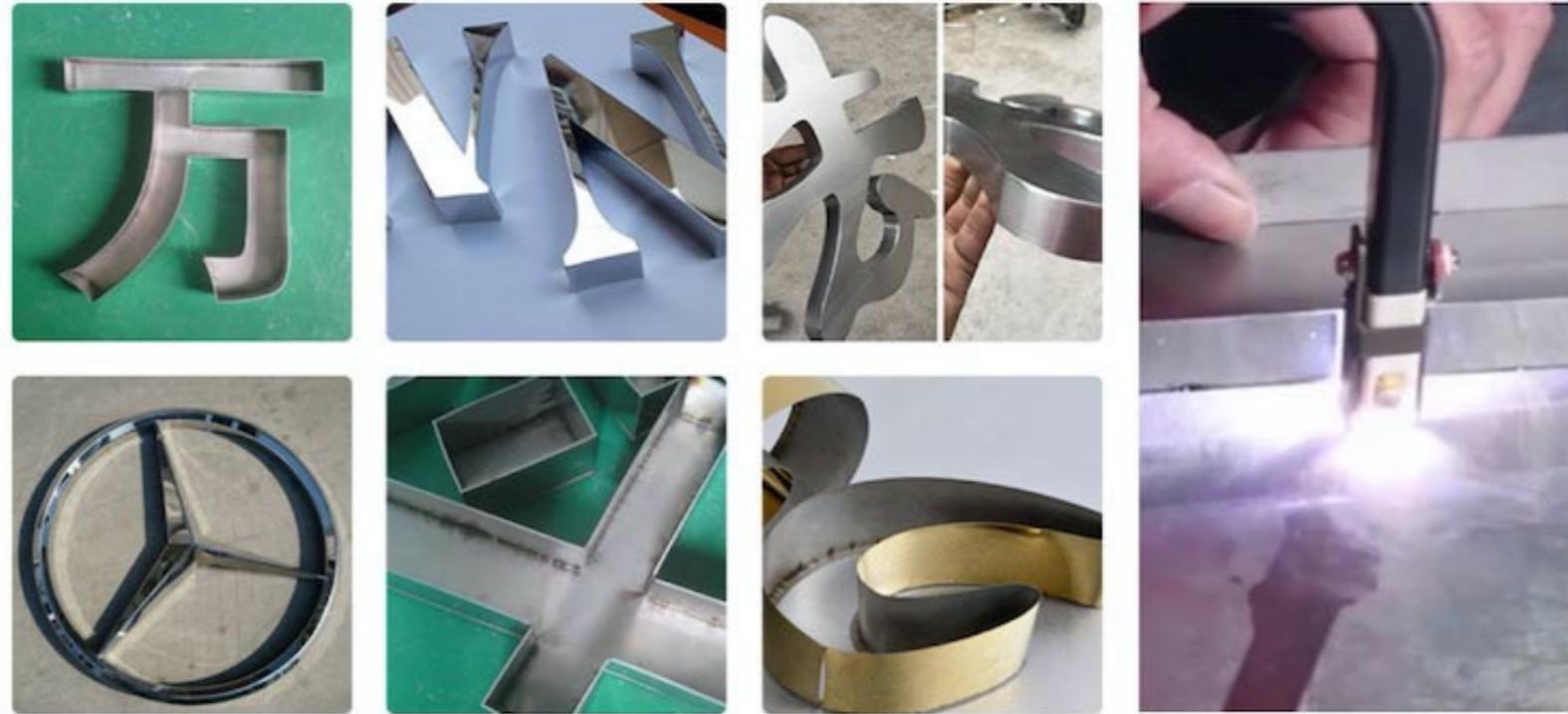
AWE-P1600 cold welding machine is also a good tool for steel mold repair.  
It can repair all kinds of wear and tear problems on steel mold.  
Low heat input can avoid annealing and distortion, and keep the mechanical structure unchanged.



# CHANNEL LETTER SIGN LETTER WELDING

We also design a special welding gun for stainless steel channel letter welding. Very convenient to use, easy to hold, simplify the operation process for outdoor channel letter welding. Your best tool for channel letter welding.

\*Channel letter welding gun is an optional accessory, it needs to be purchased separately if necessary.



# RESISTANCE WELDING GUN

Help to fix welding wire to the right position,  
Free your other hand, simple and convenience.



RESISTANCE WELDING GUN



ARC WELDING GUN



## Easy set up

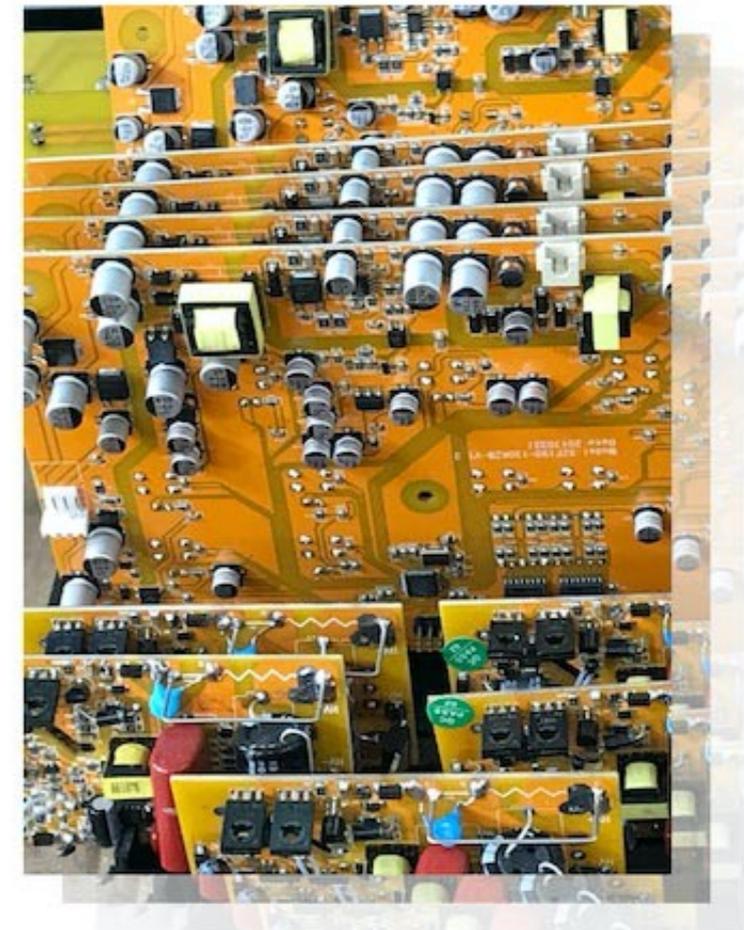
4 quick setting modes easy to switch from different thickness materials. Support single mode and continuous mode (continuous spot output) improve welding speed and efficiency.



## Full digital control

32 bits ARM cpu, smart control, 63V 82000UF capacitance to guarantee a continuous and stable welding output.

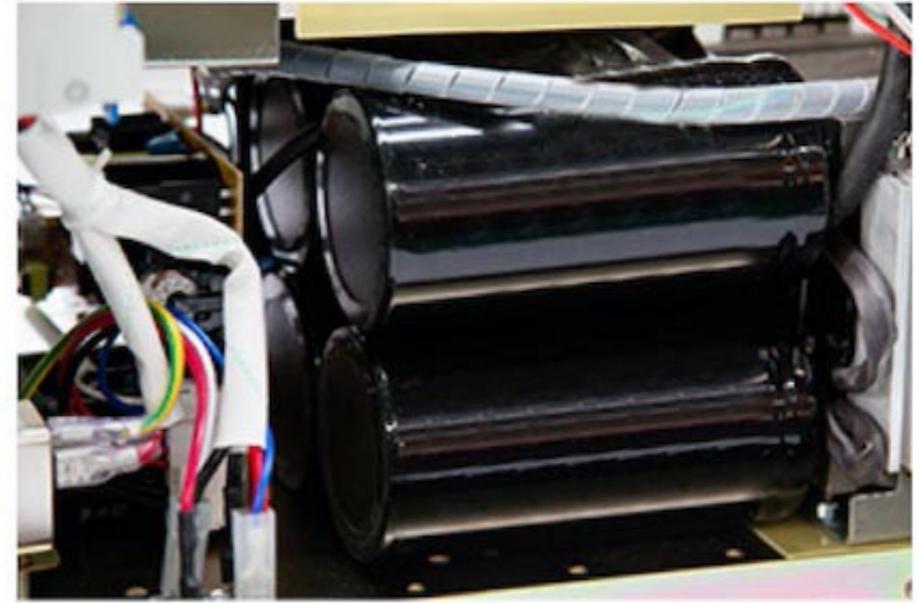
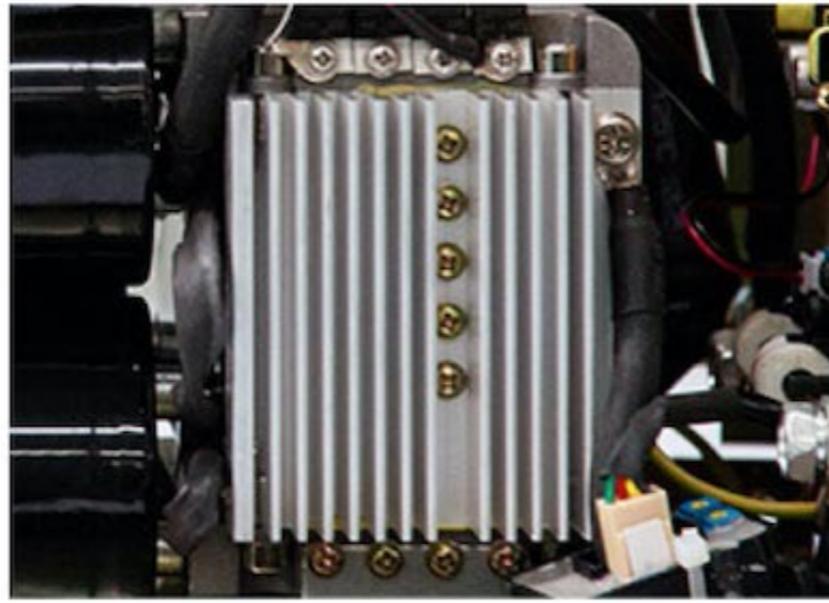
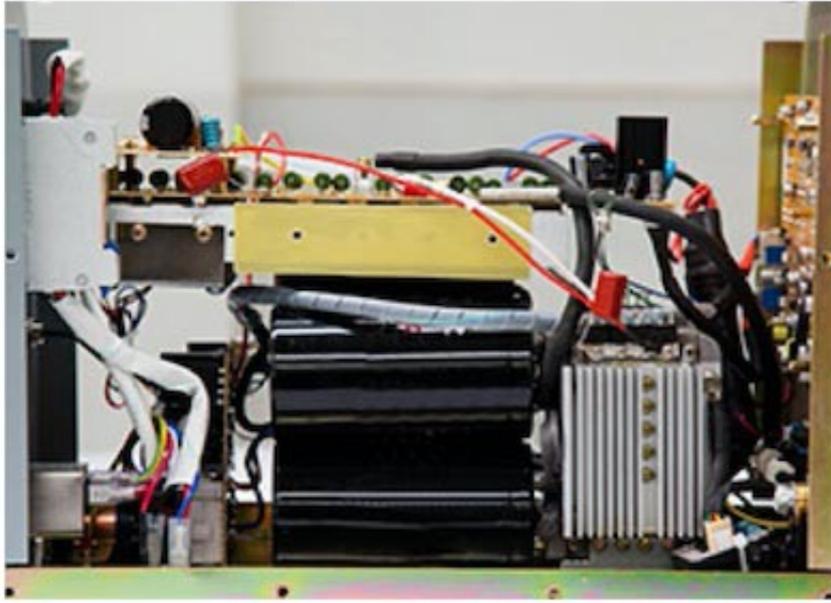
High quality electric components to guarantee the machine stability and longer using life.



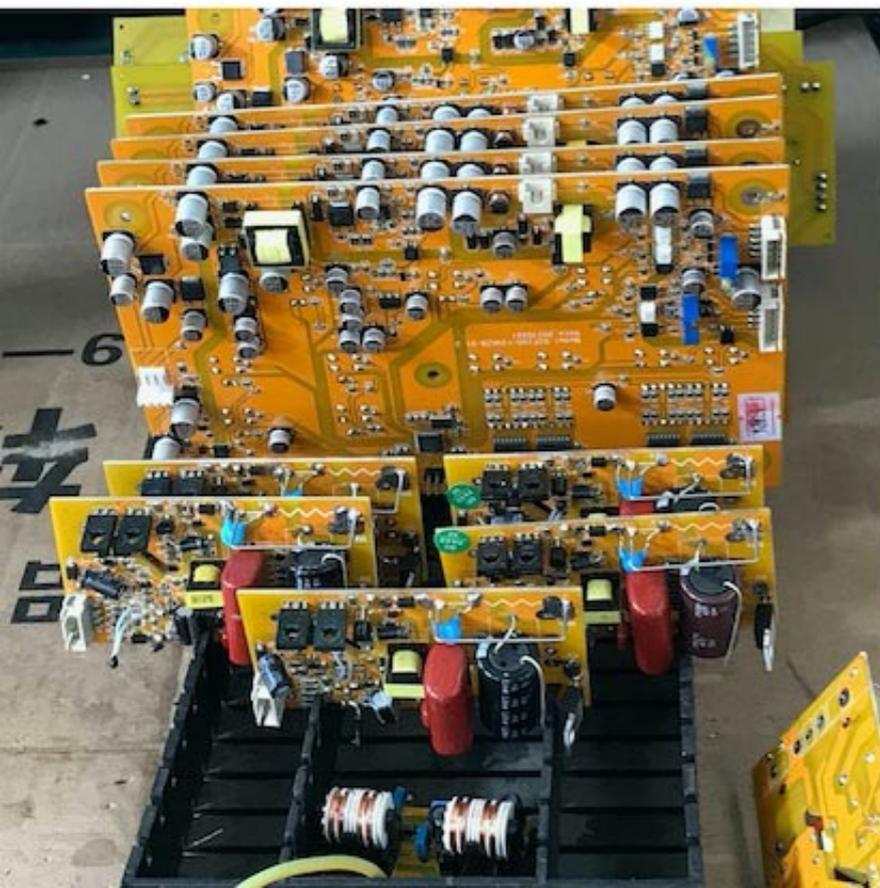
## OUR MANUFACTURING EQUIPMENTS



To guarantee our cold welding machine stability, we adopt Japan imported lead-free reflow soldering automatic printing high-speed PCB mounter for PCB SMT processing, and the equipment can even be used for processing mobile phones and other circuit PCB boards.

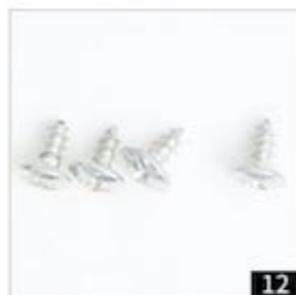


High quality electronic components





AWE-P1600 PARAMETERS			
<b>MODEL:</b>	AWE-P1600	<b>INPUT VOLTAGE:</b>	AC220V
<b>POWER OUTPUT:</b>	1200W	<b>POWER OUTPUT:</b>	0.05 - 40KW
<b>FREQUENCY:</b>	1 - 5HZ	<b>CURRENT RANGE:</b>	2-350A
<b>WEIGHT:</b>	15KGS	<b>MACHINE SIZE:</b>	400*220*290MM
<b>TUNGSTEN DIA.:</b>	Φ1.6MM	<b>COOLING MODE:</b>	AIR COOLING





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