



# User Manual EasyWelder



Non contractual photo

## Description

The kit consists of three components:

- The heating pliers "EasyWelder".
- The Holding plate.
- Paper strips.

The EasyWelder is composed of two anti-adhesive nozzles heated for welding plastics filament of 1.75 mm, 2.85 and 3 mm.



The temperature of the nozzles is controlled electronically. It can be adjusted from 100 to 200 ° C.

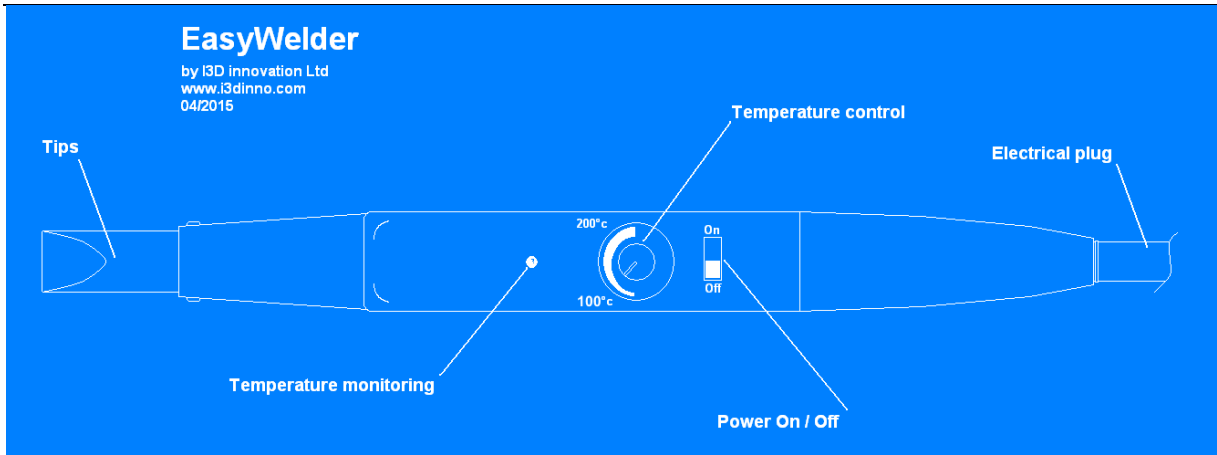
This temperature range is sufficient to weld all plastics on Market (ABS, PLA, HIPS, PE, NinjaFlex ...)

Welding areas are calibrated to 1.75 mm, 2.8 mm, 3mm in diameter.

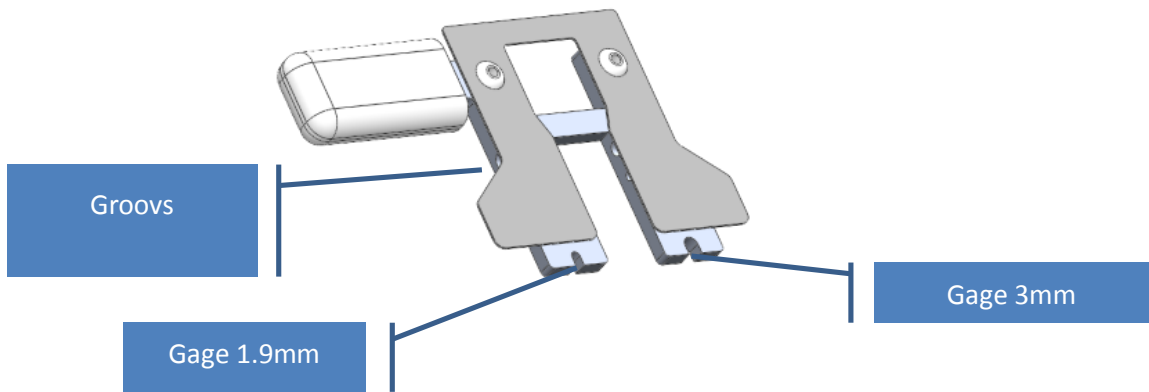
A potentiometer (temperature control) is used to set the temperature of the clamp, between 100 ° C and 200 ° C.

An LED (temperature monitoring) indicates when flashing, that the desired temperature is reached.

A switch (Power ON / OFF) ensures the start / stop of the heating pliers.



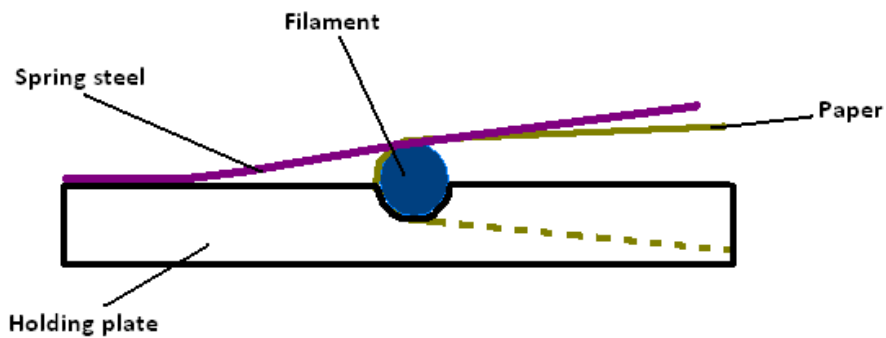
Holding the platform ensures the perfect positioning of the filament during the welding phase. Holding the plate fits into the groove of the clamp to be maintained there.



The strips of paper avoid that the plastic sticking to the tips of the pliers. The band wraps around the filament when it is positioned in the holding plate. The paper should have a width between 11 and 12mm.



The paper should be positioned as shown below.



## Operation up procedure

- Connect the power plug.
- Set the switch to ON.
- Wait 2 to 4 minutes the rise in temperature before using the EasyWelder (LED flashes when the set temperature is reached)
- After use turn off the power and unplug it.

## Operating procedure

View user videos on our website: [www.i3dinno.com](http://www.i3dinno.com)

Here the welding procedure of two filaments:

- Set heats EasyWelder (switch ON) and adjust the temperature to the maximum. The red LED should be on.



**Caution: Do not touch the heating tips: risk of burns.**

- Cut through the ends of the filaments and to ensure that the filaments are straight on about 5 cm.



- Clean the ends of the filaments with acetone and wipe with a dry cloth. Do not touch it with your fingers.
- Insert the filaments in the Holding Plate, into the groove corresponding to the diameter

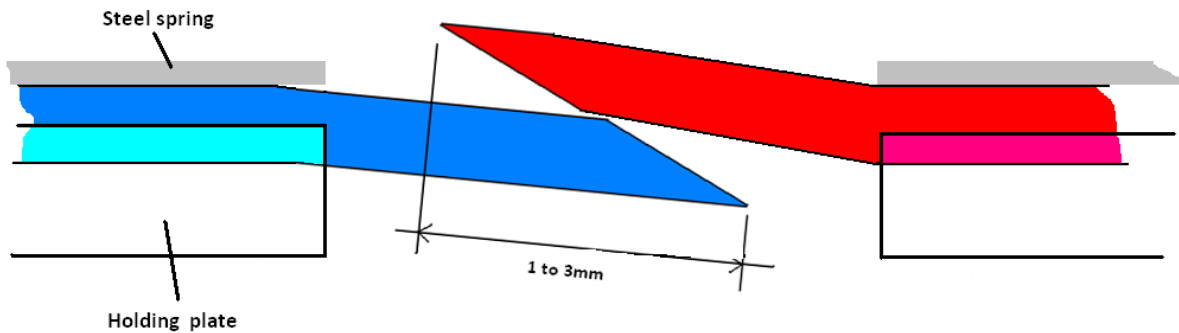
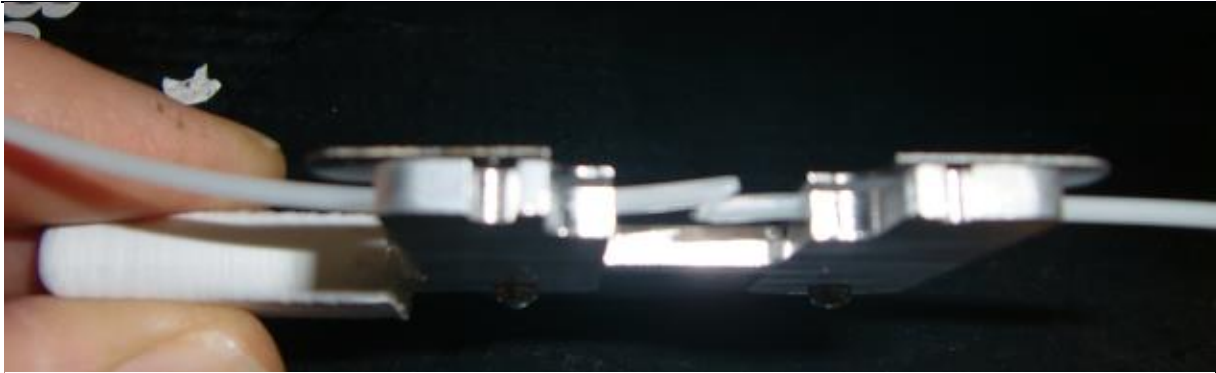
(3mm or 1.75mm) until they overlap of 2 to 3 mm for 1.75mm filament and 1 to 2mm for 3mm filament.



Left position



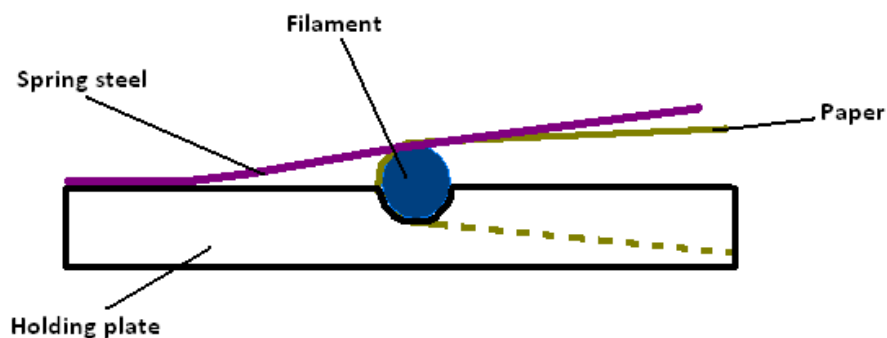
Right position



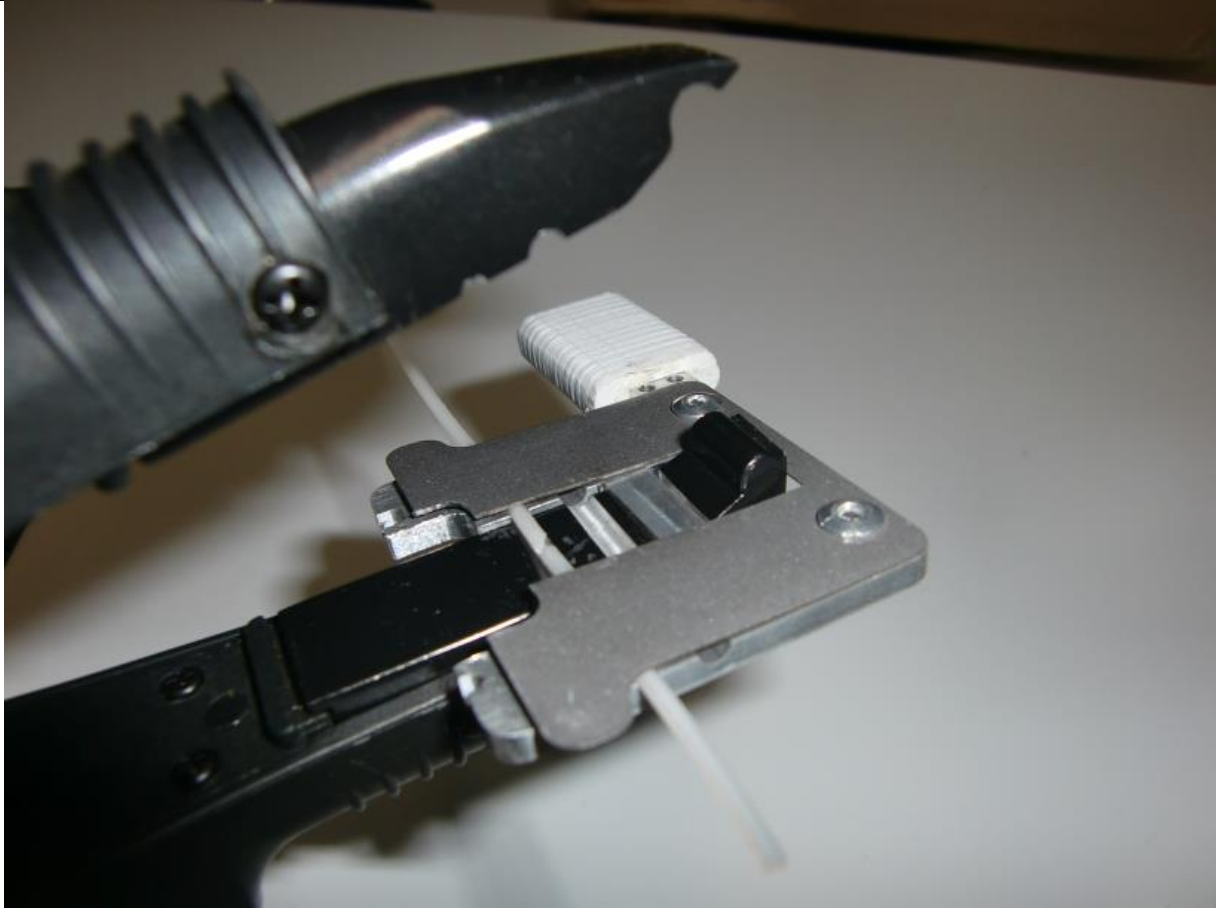
For PE braid, filaments must cross.



- Put the anti adhesive filaments around the paper. Ensure that both ends of the strip folded in two, are well parallel to each other, facing away from the handle of the Holding Plate and horizontally.

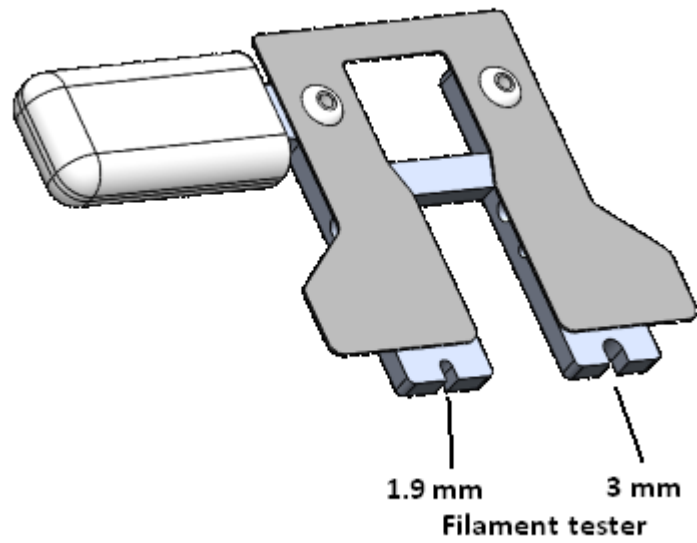


- When the clamp is hot enough (after about 2 minutes - the red LED flashes):
  - Holding Plate shake in the jaws of EasyWelder.

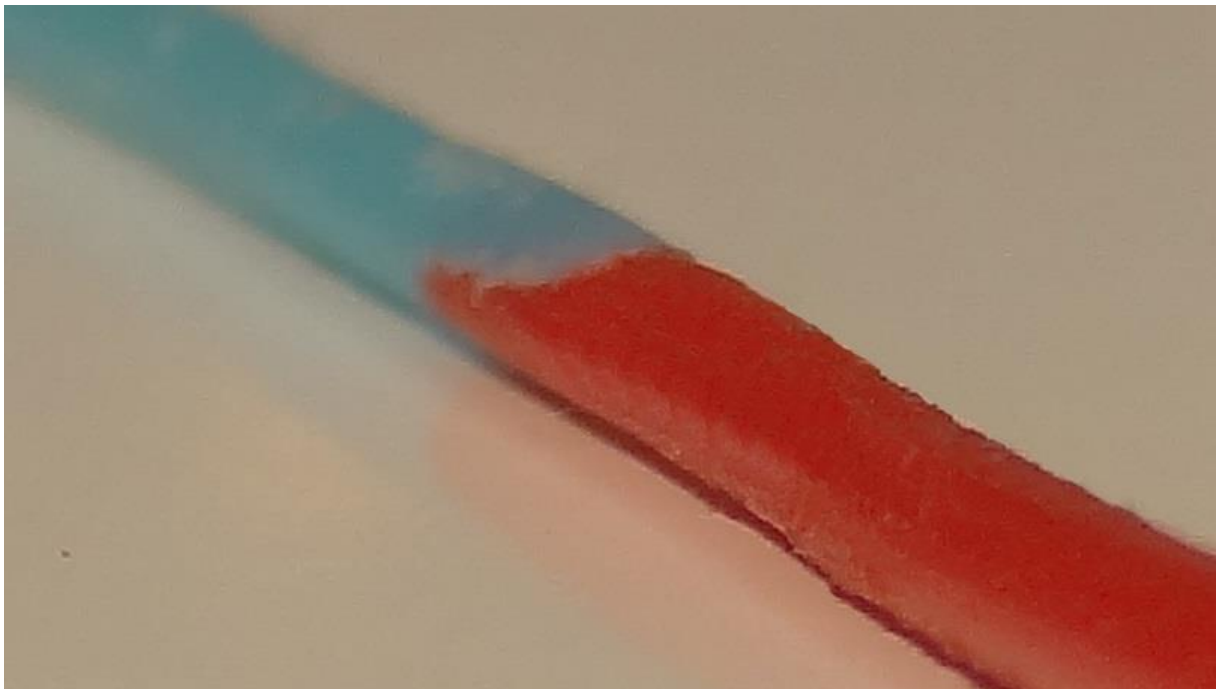


Holding plate in jaws without paper

- Immediately let go Holding plate hands to let align itself automatically with the pliers.
- While ensuring that the two plastic filaments are well into the groove of the clamp.
- Tightening must be done gradually (squeeze gently at first, then louder when the plastic starts to soften).
- Ensure that the upper surface of the holding plate is flush with the surface of the lower tip.
- Ensure that the leaf spring does not abut in the jaws of the clamp
- Heat for the time indicated in the table listing the heating time. Gently press.
- Carefully remove the holding plate by a vertical movement. During the vertical movement of the holding plate, although keep stable, with no rotational movements or tremors.
- Wait at least 30 seconds for the solder cools.
- Remove the release paper.
- Deburring using a cutter.
- Remove the filament of the Holding welded flat.
- Inspect the weld to ensure that it is of good quality.
- Scrape.
- If necessary, use the flat portion of the gripper EasyWelder for rounding the weld, lightly pinching the filament on all its faces.
- Test filament diameter to aid gauges at the end of the Holding Plate.



The end result should look like:



### Characteristics :

Nominal voltage 110 – 240V 50/60Hz

Power 25W

CE certified







## **I3D innovation**

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- Do not place the unit on a surface that fears the heat when the appliance is plugged in or running.
- Do not heat the device with another heating appliance.
- Do not melt the wax with the device.
- Allow to cool before storing.