Shandong Obor New Materials Co., Ltd
Tel:86-137-3096-1137
Email:sdobor@126.com; obor@sdobor.com
Website: www.sdobor.com
Add: Economic Development Zone, Taian City, Shandong Province, China

Geomembrane Welding Machine-GW800

1.Geomembrane Welding machine description:

GW800 Geomembrane welding machine can weld geo-membrane of various thickness and are applicable for welding of all thermal-fused material such as LDPE, PVC, HDPE, EVA, PP and so on. The control of this series of welding machine adopts PID automatic thermostatic control with high control accuracy and low temperature fluctuation; speed control adopts PWM automatic voltage and speed regulation circuit, driven by DC servo motor, with great output torque and the operating is stable. It can maintain a constant speed on the condition of creeping, vertical creeping and variable road load. Also this series of welding machine is stable in performance despite of external temperature and voltage variation.

2.Geomembrane Welder Technical parameter:

Brand & Type	GW800 Geomembrane Welding Machine
Certificate	CE\RoHS
Voltage	220V/110V/Customized
Power	800W
Frequency	50/60Hz
Welding Speed	0-6m/min
Heating temperature	20-450℃
Thickness of material	**0.5mm--1.5mm**
Overlap width	100mm
Welding width	15mm×2, interior cavity 15mm
Seam strength	≥85% base material(tensile resistant in shear direction)
Net Weight	5kg
Gross Weight	8kg
Insulation class	Class Ⅱ
Usage	China geomembrane wedge welder
Plug Standard	Euro Plug/ U.S. Plug/British Plug/Plug adaptor

3.Main components

- Plastic Geomembrane Welding Machine

CONTROL SYSTEM

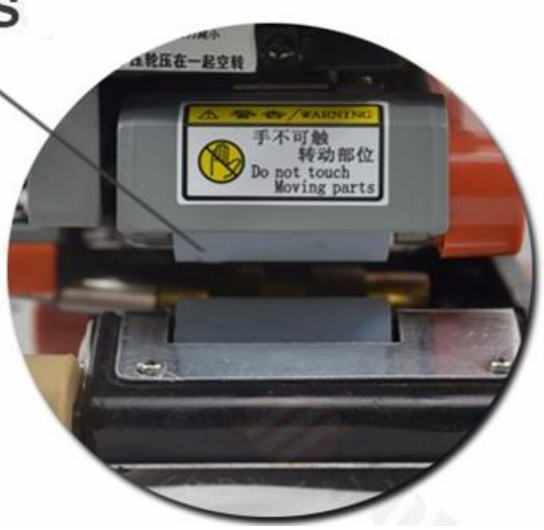
Unique PID temperature control system ensures temperature accuracy and stability.

HEATING SYSTEM

Special copper alloy hot wedge with high-power heating pipe ensures high heating efficiency and long service life.

PRESSURE ROLLERS

Imported high temperature resistant **silicon pressure rollers** are suitable for welding thickness **within 0.2-1mm.**



SPEED CONTROL SYSTEM

- ***Broadband speed control system enable welder to work and crawl more stable.***

PRESSURE ADJUSTMENT

- ***Adjust the handle to make the pressure suit for various material and thickness.***

4. Operating regulations

1.)Use with grounded 3-cord mains cable and 3-hole socker with capacity not less than 10A (socket corresponds with welder plug,phase L connected to live wire ,N to zero line ,phase to grounded protection liner),confirm that external lines have been well connected .Check that power is on off state and regulate temperature control potentiometer and speed control potentiometer to 0 position ,press lever handle down to disengage pressure roller ,then insert the plug .

2). Turn on the power and select certain temperature and speed, take several narrow materials for try welding. Temperature selection may be different for the same material at different ambient tem perature and material thickness. To determine the best welding effect, adjust the speed to approxi mately 2m/min, and then fine increase it from low to high temperature (approximately 250℃-350℃).

4). Flatly and straightly trim the weld edges and frontage faced, with lower left and upper right over lapped. The overlap width is 100mm.

5). After temperature and speed have been determined, insert material to be welded between the t wo pressure rollers, make machine body parallel with edges of base materials and engage press l ever handle for proper motion. Generally, only observation of deviation between welding mark and base materials is needed for operator, and timely make correction on small degree.

6). When welding will be ended, timely press lever handle to disengage upper and lower pressure roller to prevent rubber wheel damage for long duration.

7). Excessive temperature high and low may occur because of thermal inertia. On this condition, te mperature deviation may be compensated by speed regulation on a small degree.

5.Application