

SEWOO

SEWOO ELECTRONIC MFG. CORP.



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SEWOO Electronic Standard System

- Narrowness Prevention Device
- Arc Suppressor O.C.R
- High-sensitivity Spark Cutoff System
- Customized Design & Production

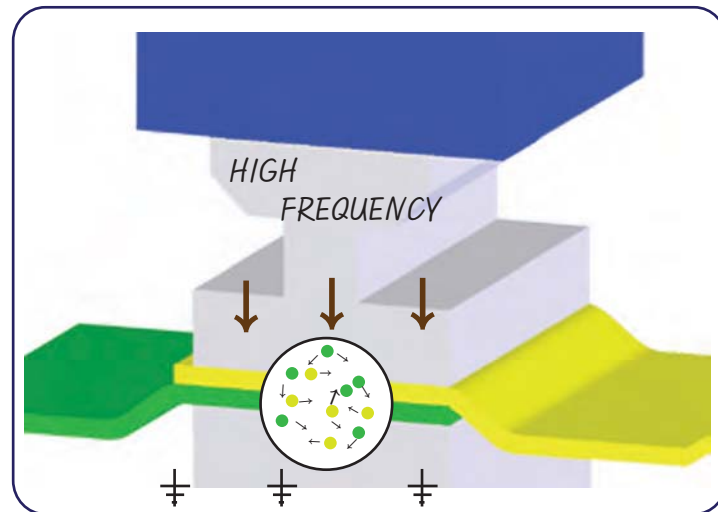
High-frequency Technology

- Principle of High-frequench Welding
- Materials for Welding
- Information of High-frequency Welding

SEWOO Electronic Products

- SW-S Series (General Welding Machine)
- SW-B Series (Blister Welding Machine)
- SW-T Series (Tent [Tarpaulin] Welding Machine)
- SW-M Series (Large-sized Automatic Welding Machine)
- SW-G Series (Automatic Foil Welding Machine)
- SW-F Series (Full Automatic Feeding & Welding Machine)
- SW-C Series (Upholstery [Car] Welding Machine)

■ Principle of High-frequency Welding



The main principle of high-frequency welding is based on dielectric heating of the material to be welded. The sheets of material are put between two metal plates (the electrodes), whereupon a high-frequency voltage is connected to the plates. As a result, the molecules in the material start vibrating, which results in heating up to the melting (fusing) temperature. By bringing two layers of material into the high-frequency field at the same time and pressing them together, the layers melt together and form a strong welded joint.

The great advantage of high-frequency is the speed of welding. In comparison with high-frequency, in all other kinds of welding methods (with filaments, hot air or infrared radiation) the heat has to be added from the outside. It means the heat must first penetrate the material in order to make it plastic enough to form a weld.

※ One interesting aspect also is the welding of 3D shapes.

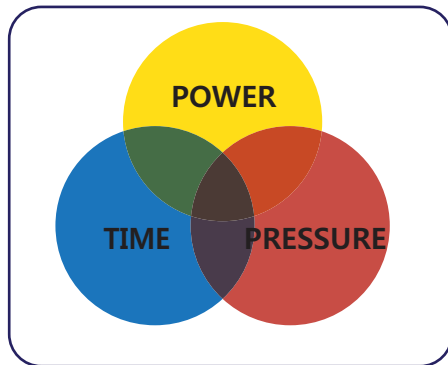
■ Materials for Welding

High-frequency welding is useful for sealing and welding plastics such as :



Polyvinyl Chloride (PVC)
Thermoplastic Polyurethanes (TPU)
Ethylene-vinyl Acetate (EVA)
Nylons (Polyamide PA)
Some ABS Resins
Special Grades of Polyolefins (PP, PE, PET)

■ Information of High-frequency Welding



Welding quality is determined by a combination of three key elements : High-frequency power control, Time and Pressure
So, improving the precision of overall control of these elements means improving welding quality. SEWOO Electronic provides a system that integrates power control, pressure control and time control to ensure consistently high-quality welding.

Packaging

The machine is used in various packaging such as blister and seal packing. This machine will be customized to fit your needs according to the material, thickness, and area of the processed material.

Example of packaging



Medical Devices

The machine is used in processing various medical supplies such as blood bags, urinary drainage bags, pressure and fermentation packs, medical filters, etc. This machine will be customized to fit our customer's needs according to the material, thickness and area of the processed material.

Example of medical devices



■ Information of High-frequency Welding

Automobile

The machine is also used to manufacture various automobile items including convertible ground plate, arm rest, dash board components, door panel, head rest, automobile ground plate, seat & cover, station wagon pad, sun cap, covers for trucks and automobiles, etc. This machine will be customized to fit our customer's needs according to the material.

Example of automobile



Tents, Swimming Pools, Billboards

The machine is also used for producing various items such as tents, oil fence, swimming pool liner, swimming pool cover, and balloon toys. This machine will be customized to fit our customer's needs according to the material, thickness, and area of the processed material.

Example of tents, swimming pools, billboards



■ Information of High-frequency Welding

Air Structures

The machine is also used to produce various items such as air mats, cushion, sitting mats, beach balls, tube, life vest and balloon boats. This machine will be customized to fit our customer's needs according to the material, thickness and area of the processed material.

Example of automobile



Label, Gild

Our machine is used to produce various items such as diaries, gold and silver leaf and label inlayed by heat press, label, liquid crystal cleaners, etc. This machine will be customized to fit our customer's needs according to the material, thickness and area of the processed material.

Example of label, gild



■ Information of High-frequency Welding

Home and General Goods

Our machine is used to produce various items such as rain coat, plastic bags, hair pins, pencil case, liquid crystal cleaners, diaries, heel inserts, high-frequency box, card wallet, account wallet, different cases and waterproof items. This machine will be customized to fit our customer's needs according to the material, thickness and area of the processed material.

Example of home and general goods



● SW-S Series

GENERAL WELDING MACHINE

Our machine is used to produce various items such as label, beach ball, card wallet, diaries, liquid crystal cleaners, heel inserts and embossing etc.

Treadle operated accuracy of C-type press with 2-guide post, linear motion bearing, with adjustment and securing of stroke position. Pneumatic cylinder and welding timer will assure you an easy operation of the machines and may be equipped at your request.



SW-AS



SW-TS

AVAILABLE PRODUCTS



● SW-S Series GENERAL WELDING MACHINE

SPECIFICATION

Model	SW-AS	SW-TS
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■ OSCILLATOR UNIT

Power Source	220/380V 3Φ 60Hz(Domestic) As per customer's instructions(overseas)	
Max. Power Consumption	15KVA	10KVA
Max. High Frequency Output	7.5kW	5kW
Operating Frequency	27.12MHz	40.68MHz
Oscillator Tube	7T69RB	7T85RB
Rectifier	Silicon diode	
Safety Device	Ultra sensitive arc suppressor, O.C.R	

■ PRESS UNIT

Max. Pressure	300kgf	200kgf
Pressure Device	Foot & pneumatic cylinder pressure	
Stroke	70 mm	
Size of Electrode	Bar holder type	
Size of Platen	600 x 1200 mm	400 x 700 mm
Overall Dimensions	1200 x 1530 x 1660 mm	1180 x 1370 x 1450 mm
Gross Weight	400kg	290kg

* The specifications are subject to change without notice.



Head Office & Factory

26-20, Gyeondalsan-ro 225beon-gil, Ilsandong-gu,
Goyang-si, Gyeonggi-do, 410-821 Rep. of KOREA
Tel : +82-31-967-1544 Fax : +82-31-967-1543
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Seoul Branch Office

#109-16 Hanshin Apt., 9, Yangpyeong-ro 24-gil,
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● SW-T Series

TENT (TARPAULIN) WELDING MACHINE

Our machine is used to produce various items such as tents etc.

Treadle operated accuracy of C-type press with 2-guide post, linear motion bearing, with adjustment and securing of stroke position. Pneumatic cylinder and welding timer will assure you an easy operation of the machines and may be equipped at your request. There is 700mm of free space behind the electrode.



SW-MT

AVAILABLE PRODUCTS



HIGH FREQUENCY WELDING MACHINE

● SW-T Series TENT (TARPAULIN) WELDING MACHINE

SPECIFICATION

Model	SW-MT
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■ OSCILLATOR UNIT

Power Source	220/380V 3Φ 60Hz(Domestic) As per customer's instructions(overseas)
Max. Power Consumption	15KVA
Max. High Frequency Output	7.5kW
Operating Frequency	27.12MHz
Oscillator Tube	7T69RB
Rectifier	Silicon diode
Safety Device	Ultra sensitive arc suppressor, O.C.R

■ PRESS UNIT

Max. Pressure	471kgf
Pressure Device	Pneumatic cylinder direct pressing
Stroke	150 mm
Size of Electrode	Bar holder type
Size of Platen	300 x 700 mm
Overall Dimensions	
Gross Weight	

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● SW-Y Series

SIMULTANEOUS WELDING & CUTTING MACHINE

Products such as radio and camera case, shoe uppers, handbags, watch band, vinyl and synthetic leathers requiring the welding and cutting process are easily made.



Enabling 1 step work of the conventional 2 step of low pressure welding and high pressure cutting by means of automatic switch-over of the solenoid valve.

SW-MY

AVAILABLE PRODUCTS



HIGH FREQUENCY WELDING MACHINE

● SW-Y Series

SIMULTANEOUS WELDING & CUTTING MACHINE

SPECIFICATION

Model	SW-MY
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■ OSCILLATOR UNIT

Power Source	220/380V 3Φ 60Hz(Domestic) As per customer's instructions(overseas)
Max. Power Consumption	15KVA
Max. High Frequency Output	7.5kW
Operating Frequency	27.12MHz
Oscillator Tube	7T69RB
Rectifier	Silicon diode
Safety Device	Ultra sensitive arc suppressor, O.C.R

■ PRESS UNIT

Max. Pressure	1 ton
Max. Cutting Pressure	30 tons
Pressure Device	Hydraulic cylinder
Stroke	200 mm
Size of Electrode	300 x 250 mm
Size of Platen	400 x 700 mm
Press Type	C-type
Overall Dimensions	1000 x 1500 x 1600 mm
Gross Weight	2 tons

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● SW-B Series

BLISTER WELDING MACHINE

Our machine is used to produce various items such as blister and seal packing, sitting mats, cushion, car seat & cover, sun visor etc.



SW-HB



Simple to operate labor saving automatic machine with built in ultra sensitive arc suppressor to detect sparks at a speed of several ten thousandths of second and stop oscillation. Shuttle table system, Automatic feed unit etc can selectively assembled in accordance with the work content on to standard generators of 7.5kW, 10kW and 15kW output.

SW-MB

AVAILABLE PRODUCTS



● SW-B Series BLISTER WELDING MACHINE

SPECIFICATION

Model	SW-MB	SW-HB
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■ OSCILLATOR UNIT

Power Source	220/380V 3Φ 60Hz (Domestic) As per customer's instructions (Overseas)	
Max. Power Consumption	15KVA	30KVA
Max. High Frequency Output	7.5kW	15kW
Operating Frequency	27.12MHz	
Oscillator Tube	7T69RB	8T85RB
Rectifier	Silicon diode	
Safety Device	Ultra sensitive arc suppressor, O.C.R	

■ PRESS UNIT

Max. Pressure	600kgf	750kgf
Pressure Device	Pneumatic cylinder direct pressing	
Stroke	125 mm	150 mm
Size of Electrode	400 x 300 mm	900 x 700 mm
Size of Platen	600 x 400 mm	1000 x 800 mm
Press Type	C-type	4-columns type
Overall Dimensions		
Gross Weight		

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● SW-C Series

UPHOLSTERY(CAR) WELDING MACHINE

Our machine is used to produce various items such as automobile interior material etc.

Treadle operated accuracy of C-type press with adjustment and securing of stroke position. Pneumatic cylinder and welding timer will assure you an easy operation of the machines and may be equipped at your request.



SW-MC

AVAILABLE PRODUCTS



● SW-C Series

UPHOLSTERY(CAR) WELDING MACHINE

SPECIFICATION

Model	SW-MC
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■ OSCILLATOR UNIT

Power Source	220/380V 3Φ 60Hz (Domestic) As per customer's instructions (Overseas)
Max. Power Consumption	15KVA
Max. High Frequency Output	7.5kW
Operating Frequency	27.12MHz
Oscillator Tube	7T69RB
Rectifier	Silicon diode
Safety Device	Ultra sensitive arc suppressor, O.C.R

■ PRESS UNIT

Max. Pressure	500kgf
Pressure Device	Pneumatic cylinder direct pressing
Stroke	150 mm
Size of Electrode	150 x 200 mm
Size of Platen	170 x 250 mm
Overall Dimensions	
Gross Weight	

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● SW-F Series

FULL AUTOMATIC FEEDING & WELDING MACHINE

This is suitable for mass production of photo album, book cover and so on, materials feeding, welding, finished products take-out, and scrap disposal processes have fully automatic capability to save time labor, perfect safety, high working efficiency, simple and easy operation and compact design.

Distinguished accuracy of feeding device, simple and easy operation of feed length is available by the handle with heating is possible.



SW-AF

AVAILABLE PRODUCTS





SW-F Series

FULL AUTOMATIC FEEDING & WELDING MACHINE

SPECIFICATION

Model	SW-AF
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■ OSCILLATOR UNIT

Power Source	220/380V 3Φ 60Hz(Domestic) As per customer's instructions(overseas)
Max. Power Consumption	15KVA
Max. High Frequency Output	7.5kW
Operating Frequency	40.68MHz or 27.12MHz
Oscillator Tube	7T69RB
Rectifier	Silicon diode
Safety Device	Ultra sensitive arc suppressor, O.C.R

■ PRESS UNIT

Max. Pressure	300kgf
Pressure Device	Pneumatic cylinder direct pressure
Stroke	70 mm
Size of Electrode	500 x 700 mm
Size of Platen	600 x 800 mm
Heater	2kW - 3kW
Winding Device	Motor drive
Feeding Pneumatic Cylinder	Φ50 x 350st
Adjustable Feeding Length	100 - 700 mm (by handle)
Max. Sheet Width	570 mm
Overall Dimensions	
Gross Weight	

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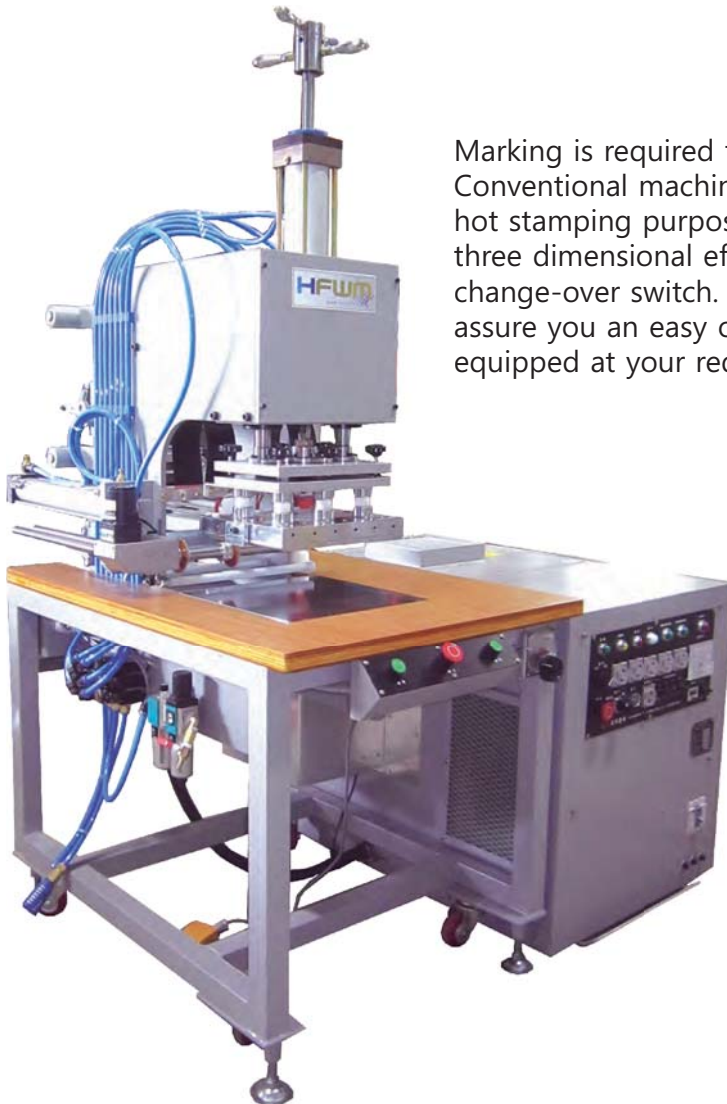
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● SW-G Series

AUTOMATIC FOIL WELDING MACHINE

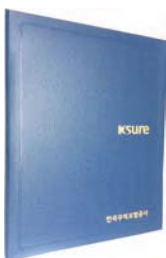
Our machine is used to produce various items such as gold and silver leaf etc.



Marking is required for various kinds of plastic goods processes. Conventional machines have only been used for flat printing and hot stamping purpose but this machine has multi-purpose of the three dimensional effect operations are possible by turning the change-over switch. Pneumatic cylinder and welding timer will assure you an easy operation of the machines and may be equipped at your request.

SW-MG

AVAILABLE PRODUCTS



HIGH FREQUENCY WELDING MACHINE



SW-G Series

AUTOMATIC FOIL WELDING MACHINE

SPECIFICATION

Model	SW-MG
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■ OSCILLATOR UNIT

Power Source	220/380V 3Φ 60Hz(Domestic) As per customer's instructions(overseas)
Max. Power Consumption	10KVA
Max. High Frequency Output	5kW
Operating Frequency	40.68MHz
Oscillator Tube	7T85RB
Rectifier	Silicon diode
Safety Device	Ultra sensitive arc suppressor, O.C.R

■ PRESS UNIT

Max. Pressure	380kgf
Pressure Device	Pneumatic cylinder direct pressing (2 step)
Stroke	125 mm
Size of Electrode	200 x 300 mm
Size of Platen	300 x 350 mm
Foil Feeding Device	Pneumatic cylinder
Foil Winding Device	Motor drive
Heater	200W x 6 (Φ16 x 170L)
Overall Dimensions	1480 x 1130 x 1920 mm
Gross Weight	

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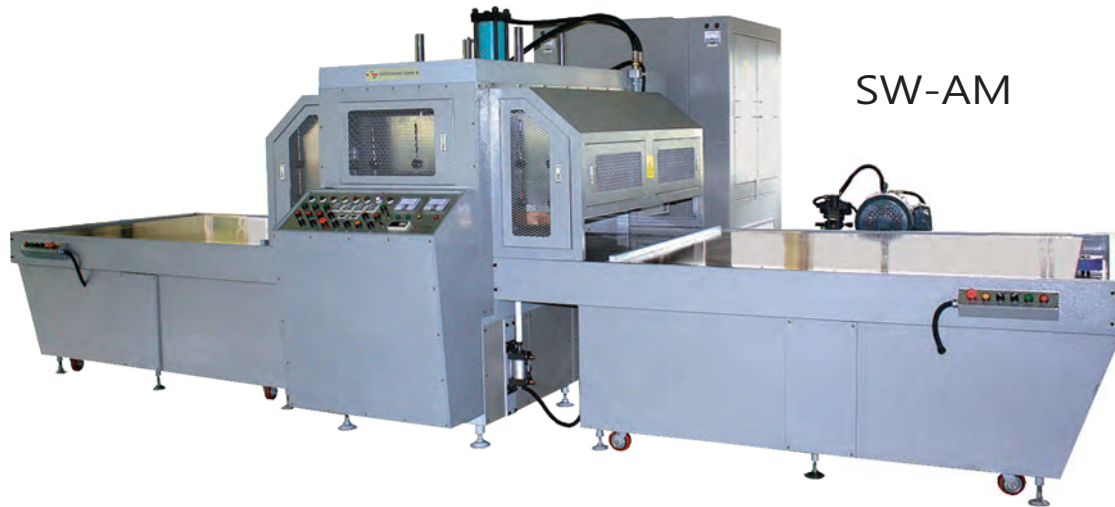
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● SW-M Series

LARGE-SIZED AUTOMATIC WELDING MACHINE

Our machine is used to produce various items such as air boats, air mattresses, car carpets, automobile interior material etc.



SW-AM

As the demand for larger and more varied plastic products increases in industry, high frequency welders which are both larger and have higher capabilities are required. Accordance with the purpose of fabrication such as press pressure range of 1 ton to 30 tons above which the feed mechanism can be of cross-feeding slide system, multilevel slide system in accordance with the purpose of the work on to 20kW-100kW generator.



SW-TM

AVAILABLE PRODUCTS



● SW-M Series

LARGE-SIZED AUTOMATIC WELDING MACHINE

SPECIFICATION

Model	SW-AM	SW-TM
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■ OSCILLATOR UNIT

Power Source	220/380V 3Φ 60Hz(Domestic) As per customer's instructions(overseas)	
Max. Power Consumption	80KVA	120KVA
Max. High Frequency Output	40kW	60kW
Operating Frequency	13.56MHz or 27.12MHz	
Oscillator Tube	8T87RB	3CX20000H3
Rectifier	Silicon diode	
Safety Device	Ultra sensitive arc suppressor, O.C.R	

■ PRESS UNIT

Max. Pressure	10 tons	
Pressure Device	Hydraulic cylinder or Pneumatic cylinder direct pressing	
Stroke	250 mm	300 mm
Size of Electrode	800 x 1500 mm	1000 x 1600 mm
Size of Platen	900 x 1600 mm	1200 x 1800 mm
Overall Dimensions		
Gross Weight		

* The specifications are subject to change without notice.



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