

## ① Machine Image



## ② Machine Description

### 01: Parameter

Model	KLM-1040/KLM-1224
Ultrasonic power	1000w/1200W
Ultrasonic Frequency	40khz/24KHZ
Power Supply	110v~220v, 50hz/60hz
Air Supply	7~8 bat (kg/cm2)
Maximum air pressure	6kgs/cm <sup>2</sup>
Minimum air pressure	0.3kgs/ cm <sup>2</sup>
Input port	Quick coupler
Welding time	Adjustable (0.01~10s)
Pre-pressure time	Adjustable (0.02~1s)
Frequency display	00.0000~40.000hz
Adjustable Power	300w, 600w, 900w,1200W

Frequency Auto-tuning	+/-2hz
Auto protection	Auto protection for inside over 60 degree
EMI/EMC	Strong Anti-disturbing
Cylinder diameter	50mm
Cylinder stroke	20mm (Maximum)
Welding head	Dual point
Distance of welding point	10mm
Overall size	440*280*330mm
Net weight	30~40kgs

## 02: Character

5.7 inch touch screen all digital control

Multiple protection function, over current, frequency protection and boot automatic detection

Automatic frequency tracking function of ultrasonic generator

Pressure, amplitude, welding time etc are all digital setting and regulation

Microcomputer control, electronic tuning frequency

Over-current protection and soft starting circuit design for safe working

## 03: Ultrasonic welding principle

Ultrasonic Metal Spot Welder adopts ultrasonic vibration to cause the jointing interface of Aluminum foil and copper foil molecular friction, under the suitable pressure, the metal foils apply bonding performance, the metal foil of battery bonding is molecular connection without heating and any solder, the battery electrode is extremely conductive and extremely low resistance

Extremely conductive and extremely low resistance

## 04: Highlighting of Ultrasonic welding for Al and Cu foil

Good conductivity, resistivity very low or almost near to zero

Oxidation or plating metal can be welded

Short welding time, no need additional flux, gas, solder

No welding sparks, environment protection and safety

Low energy consumption, High frequency, no distortion, no pollution

The welding/bonding has robust connection and easy operation

Welding material does not melt non-fragile metal properties

## ③ After-Sales Service

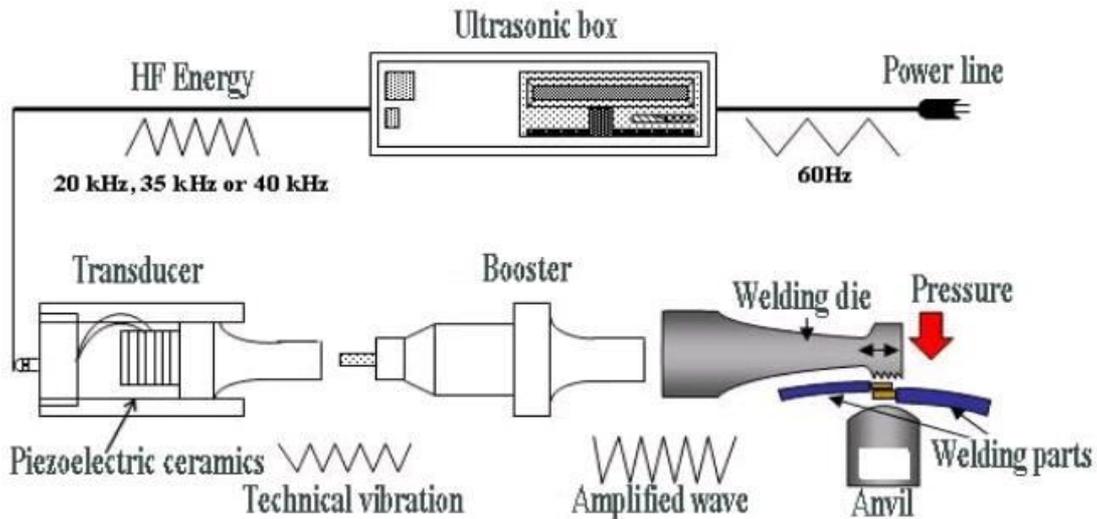
After purchasing at KEEPLEADER™ is first step of our after-service, all of machines at KEEPLEADER™ has one year guarantee, we provide free samples for defected parts to do replacement except for human damage, under information for your notice

01: KEEPLEADER™ always posts the new technical file in our homepage that can help our client in new technical information of machines' design, character, application, operation, maintenance, and related, KEEPLEADER™ also welcome our clients feed back the machines' working condition that can get one to one service

02: If the machine you purchased has any defects, please contact sales representative at KEEPLEADER™, we will assign our experienced engineer analyze your case and provide technical support, in case of damaged parts that cannot repair, KEEPLEADER™ will provide a new parts to replace the defect

- 03: For any replacement and maintenance, KEEPLEADER™ has user manual and training video
- 04: KEEPLEADER™ can go to oversea for on-site training
- 05: **Ultrasonic Metal Spot Welder** has user manual, train video and all life long technical assistance

**④ Functional Illustration**



**⑤ Machine Uses**



⑥ Contact Us

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