

# K-SONIC

## PLASTIC WELDING SOLUTIONS



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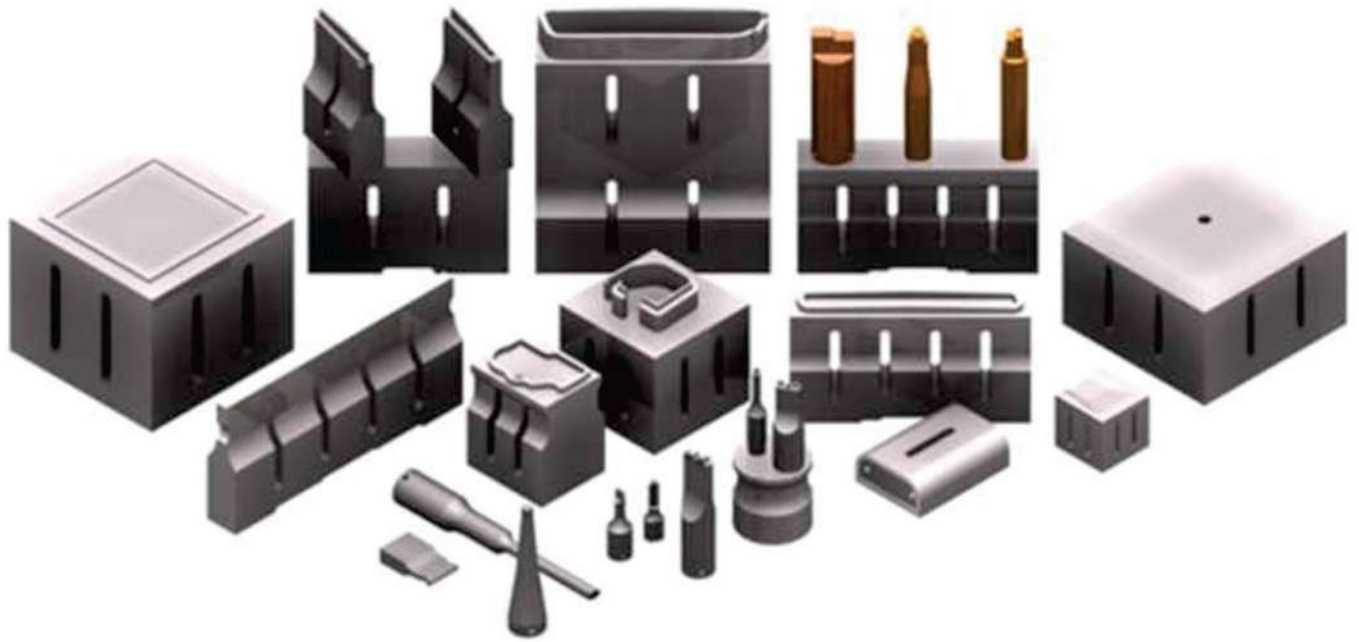
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**ISO 9001**



**KSONIC** has a long history, which began with the establishment of KSONIC Sdn Bhd in 2007 as a trading company for Ultrasonic Plastic Welder, High frequency Plastic Welder , Hot Plate Plastic Welder, Spin Plastic Welder, Ultrasonic Cleaner and Customize Machine.

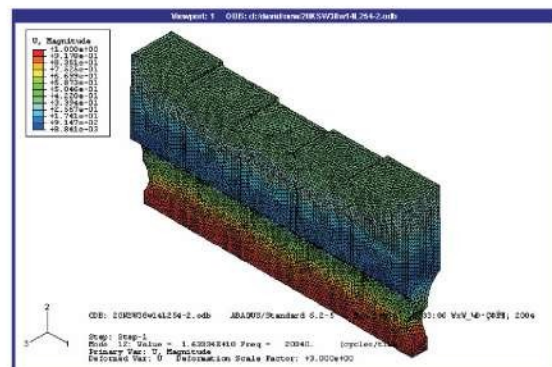
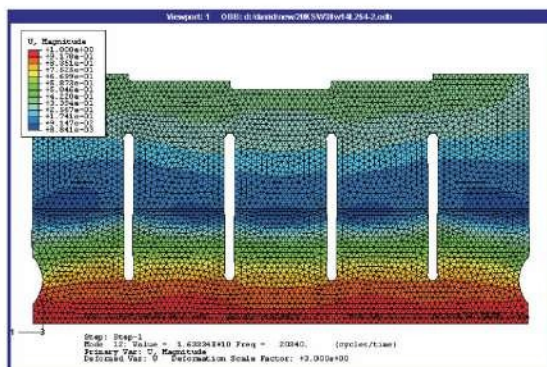
In 2007, the Taiwan company KING ULTRASONIC CO LTD, appointed us as the Sole agent in Malaysia and Singapore .

We offer ultrasonic industrial machinery with wide range of ultrasonic frequencies in 15Khz,20Khz ,28Khz,30Khz,35Khz,40Khz 58Khz etc for customers in various fields such as semi-conductors,electronics appliances ,stationary,automotive industry,packaging, non-woven surgical applications,medical devices and etc.And we offer tooling like manufacturing horn and fixture .

Furthermore,with the support of our in-house CNC machine , CNC programmer, machine designer and experience Service teams.

## Our Objectives

- To continue to be a leading company in the Plastics Welding Machinery in providing excellent after-sales service and repair of all machines.
- To supply high quality plastic welding machines and Automatic Welding Machine to the industries.
- To continue giving the best qualities and services to all of our customers with our slogan in "We Make Things Work"



## Ultrasonic Plastic Welder

for assembling thermoplastic parts

Applications: Welding, Spot Welding, Inserting, Riveting, Forming, De-gating, Cutting....

### STANDARD SERIES

**MODELS:**  
**KWB1420**  
**KWB2020**  
**KWB1815**  
**KWB2615**



### HIGH POWER

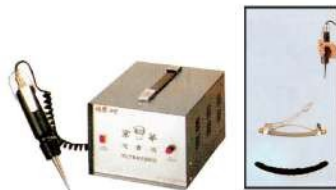
#### FEATURES

1. Automatic Frequency Tracking System.
2. Accurate Digital switch provided 1/100 scale adjustment.
3. With permanent auto control indication of either abnormal overload or normal operated parameters conditions.
4. Prismatic colum ensuring accuracy of adjustment repeatability.
5. Automatic horizontal level device and precised micro-switch. Provided horn and nest fitting accurately.



**MODEL: KWL 4215**

### Ultrasonic Hammer



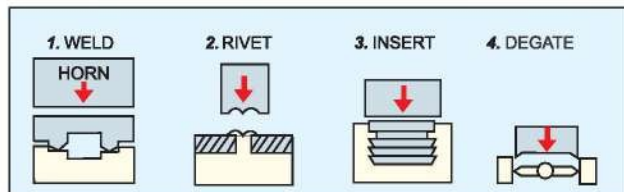
**Model: KWH0328** 300W, 28KHz  
 110V 1P 3A or  
 220V 1P 3A



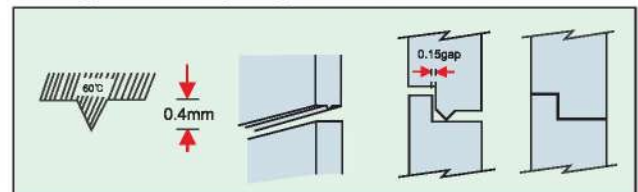
### Moulds & Applications



#### ◆ Applications with ultrasonic vibration energy:



#### ◆ Energy director design on joint surface, water proof available:



#### ◆ Specifications:

SERIES	STANDARD				HIGH POWER
	KWB1420	KWB2020	KWB1815	KWB2615	KWL4215
Model	KWB1420	KWB2020	KWB1815	KWB2615	KWL4215
Output(W)	1400	2000	1800	2600	4200
Frequency(KHz)	20	20	15	15	15
Line Source	220V 1P 10A		12A	220V 3P 12A	220V 3P 20A
Ultrasonic System	Auto tracking				Auto tracking
Over Load Protect	Overload indicating lamp				Overload indicating lamp
Air Cylinder	63 φ x75				100 φ x100
Workpiece Max. height (mm)	360		340		550
Generator Dimension (mm)	385x510x140 (LxWxH)				—
Machine Dimension (mm)	370x670x980~1320 (LxWxH)				920x900x1900~2240 (LxWxH)
Generator Weight	14kg				—
Machine Weight	76kg				350Kgs
Welding Capacity (mm)	20x140	40x140	60x140	90x240	20x420

## Ultrasonic Plastic Welder

for Thermoplastic Parts Assembly

**NEW TYPE**

### Features:

- Automatic frequency control, no need to adjust the horn's resonance.
- Special circuit design, resonance frequency compensation when loaded to improve welding ability.
- Full bridge IGBT modules are used in the generator to improve durability.
- PWM (Pulse Width Modulation) amplitude control, linear adjustment from 50%~100%.
- PWM controls vibration during start-up to prevent horn damage due to high voltage starts.
- 8 selective start-up settings for ultrasonic activation to match various horn design requirements.
- Ultrasonic frequency fluctuation and high-voltage and overload protection.
- Automatic frequency control technology, helps to avoid an increase in horn temperature which could lead to frequency offsets, and affect the welding quality.
- LCD displays the ultrasonic frequency and percentage of amplitude, making set up easy and clear.
- Control panel uses push button settings and LCD display for welding parameters.
- Two welding modes : time control / pressure trigger.
- Horn moves using precision linear guides to ensure stability of the welding head.
- Lower Horn position adjustment is made by micrometer adjustment .
- Two lowering speed adjustments control the Horn downward speed from fast to slow, improving the welding stability.
- Start-up automatic frequency self-checking is standard.



**KWD 2220**  
( 2200W , 20KHz)

### Specifications:

MODEL		KWD 2220
SPEC.	OUTPUT	2200W
	FREQUENCY	20 KHz
	LINE SOURCE	AC220V , 15A , 50/60Hz , 1 PHASE
POWER SYSTEM	ULTRASONIC SYSTEM	1. Automatic tuning ( frequency control)
		2. Resonance frequency compensation during welding cycle
		3. Full-Bridge IGBT module drives the transducer
		4. PWM (Pulse Width Modulation) amplitude control, linear adjustment from 50%~100% by Variable resistor
		5. PWM start-up vibration control
		6. LCD display percentage of frequency & amplitude
		7. Protection against Ultrasonic frequency offset & high voltage overload
		8. Frequency compensation as horn's working temperature increase
		9. Automatic frequency self-checking at start-up
	CONTROL SYSTEM	1. LCD Display to show the weld time and piece counter
	2. Push Button Panel for setting Delay, Weld Duration, Hold time (0.01~9.99sec) and counter	
	3. Selectable Welding Mode (Delay Time, Weld Duration, Hold Time)	
	4. Selectable Pre-triggering (Variable resistor, Trigger pressure setting)	
	5. Electric Meter for adjustable trigger pressure	
	6. Anti-tie down start switches, e stop for emergency cylinder up/ultrasonic vibration stop	
MECHANICAL		1. Standard Machine: 63 φ / Stroke 75mm cylinder (other cylinder specifications optional )
		2. 100 φ Machine Rigid column
		3. Two steps ( Fast, Slow) downward speed for Horn air cylinder
		4. The Horn mechanism uses a Precision linear guide system
		5. The lower position of the horn is set by micrometer adjustment without affecting other settings.
		6. Air source: 6kg/cm <sup>2</sup>
Machine Dimension Weight		370×670×1030~1330mm(L×W×H) / 95kg
Generatore Dimension Weight		150×490×180(L×W×H) / 12kg

※Specifications Are Subject To Change For Product Improvement Without Notice.

## Ultrasonic Plastic Welder for Thermoplastics assembly

### Features:

- Automatic Tuning Frequency Control.
- Resonance Frequency Compensation in loading could increase welding capability.
- Full-Bridge IGBT power control.
- PWM (Pulse Width Modulation) amplitude control, linear adjustment from 50%~100%.
- PWM ramp could protect Sonotrode (horn) as it helps to prevent sonotrode shacking when ultrasonic starts activating.
- 9 selective settings of ultrasonic activation could meet various designed sonotrodes.
- LCD display percentage of amplitude & frequency, setting easy and clear.
- Ultrasonic frequency fluctuation & high voltage overload protection.
- Frequency compensation at working temperature increase.
- Start-up automatic frequency self-checking.

**NEW TYPE**



**Models:** KWD 0930 ( 900W , 30KHz)  
KWD 0935 ( 900W , 35KHz)



ULTRASONIC HORN



**WORKPIECES' MATERIALS:**  
ABS, PS, PP, PVC, Acrylic, Nylon, PC, PE

### Ultrasonic Handgun

The product has handgun design which is for the purpose of operation conveniently. It is a fast, efficient tool especially to spot weld the thermoplastic as well as seal.



**Handgun Type**  
(Automatic Tuning Frequency System)

**KWH 0930**  
900W 30KHz  
220V 1P 10A

### Specifications:

Model	KWD-0930	KWD-0935
Output (W)	900	900
Ultrasonic Frequency	30 KHz	35 KHz
Line Source	AC220V, 1P, 10A, 50/60Hz	
Control	1. LCD Display frequency & percentage of amplitude .	
	2. Dip Switch for Setting Delay, Weld Duration, Hold Time(0.01~9.99sec.) and counter.	
	3. Selectable Pretriggering (Variable VR, Trigger Pressure Setting)	
	4. Electrical Meter for Different Trigger Pressure.	
Mechanical	Standard Machine : 32 φ Cylinder	
	Optional Selection : 56 φ Machine Rigid Column	
	6kg/cm <sup>2</sup> Air Pressure	
Machine Dimdension Weight	340×480×760~1020mm (L×W×H) / 30kg	
Generator Dimension Weight	150×490×180 (L×W×H) / 12kg	
Welding Capacity (mm)	60×100	20×50

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## ULTRASONIC PLASTIC WELDER

### for Thermoplastic Parts Assembly

#### Digital Ultrasonic System Features:

- Automatic frequency control, no need to adjust the horn's resonance.
- Special circuit design, resonance frequency compensation when loaded to improve welding ability.
- Full bridge IGBT modules are used in the generator to improve durability.
- PWM (Pulse Width Modulation) amplitude control.
- PWM controls vibration during start-up to prevent horn damage due to high voltage starts.
- 8 selective start-up settings for ultrasonic activation to match various horn design requirements.
- Ultrasonic frequency fluctuation and high-voltage and overload protection.
- Automatic frequency control technology, to avoid horn's temperature increased and lead to frequency offset.
- Using LCD touch screen to set and display the welding parameter, making set up easy and clear.
- Two welding modes : time control / energy control.
- Automatic frequency self-checking at start-up.



**KWB2620-E**(2600W , 20KHz)

**KWB2615-E**(2600W , 15KHz)

#### SPECIFICATION

MODEL		KWB2615-E	KWB2620-E	KWD0930-E	KWD0935-E		
SPEC.	Output	2600W	2600W	900W	900W		
	Frequency	15KHz	20KHz	30KHz	35KHz		
	Line Source	AC220V,15A,1P	AC220V,15A,1P	AC220V,10A,1P			
POWER SYSTEM	Ultrasonic System	<ul style="list-style-type: none"> <li>• Automatic tuning ( frequency control)</li> <li>• Resonance frequency compensation during welding cycle</li> <li>• Full-Bridge IGBT module drives the transducer</li> <li>• PWM (Pulse Width Modulation) amplitude control, linear adjustment from 50%~100% by Variable resistor</li> <li>• PWM start-up vibration control</li> <li>• 8 selective start-up settings for ultrasonic activation to match various requirements of horn's design</li> <li>• Protection against Ultrasonic frequency offset &amp; high voltage overload</li> <li>• Frequency compensation as horn's working temperature increase</li> <li>• Automatic frequency self-checking at start-up</li> </ul>					
		Control System	<ul style="list-style-type: none"> <li>• Touch screen LCD set and display welding parameter</li> <li>• Time control mold(Delay/Weld/Hold)</li> <li>• Energy control welding mold</li> <li>• Synchronous dual start button, emergency button for cylinder up &amp; ultrasonic vibration stop</li> </ul>				
		MECHANISM	Air Source	6kg/cm <sup>2</sup>			
			Cylinder	φ 63mm	φ 32mm		
			Stroke	75mm	50mm		
			Column	φ 80mm	φ 56mm		
		GENERATOR SIZE (L×W×H)		505×295×162mm			
	GENERATOR WEIGHT		9.6kg				
	MACHINE DIMENSION (L×W×H)		370×670×980~1320mm		475×300×760~1020mm		
MACHINE WEIGHT		76kg		40kg			



**KWD0930-E** (900W , 30KHz)

**KWD0935-E** (900W , 35KHz)

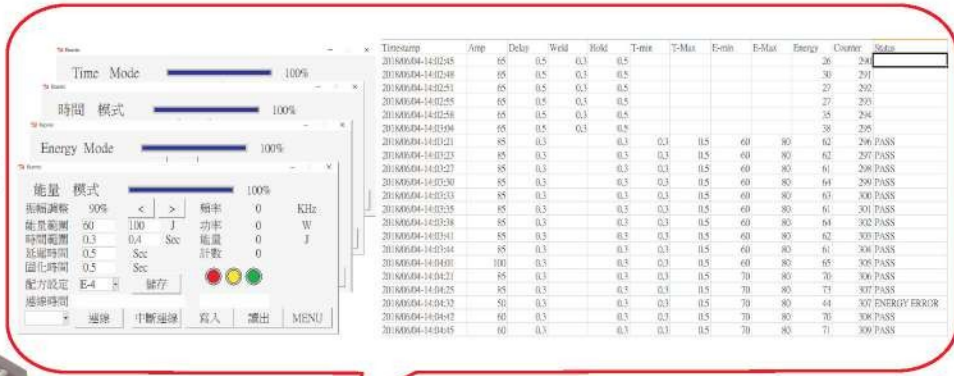
#### Digital Ultrasonic System



## Digitized Ultrasonic Plastic Welder



**KWD 0930-E (900W , 30KHz)**  
**KWD 0935-E (900W , 35KHz)**



**KWD 2615-E (2600W , 15KHz)**  
**KWD 2620-E (2600W , 20KHz)**

### SPECIFICATION

MODEL		KWD 2615-E	KWD 2620-E	KWD 0930-E	KWD0935-E		
SPEC.	Output	2600W	2600W	900W	900W		
	Frequency	15KHz	20KHz	30KHz	35KHz		
	Line Source	AC220V, 15A, 1P		AC220V, 10A, 1P			
POWER SYSTEM	Ultrasonic System	<ul style="list-style-type: none"> <li>● Automatic tuning ( frequency control)</li> <li>● Resonance frequency compensation during welding cycle</li> <li>● Full bridge IGBT modules are used in the generator to improve durability.</li> <li>● PWM (Pulse Width Modulation) amplitude control.</li> <li>● PWM controls amplitude during start-up to prevent horn damage due to high voltage starts.</li> <li>● 8 kinds selective start-up settings for ultrasonic activation to match various requirements of horn's design</li> <li>● Protection against Ultrasonic frequency offset &amp; high voltage overload</li> <li>● Frequency compensation as horn's working temperature increase</li> <li>● Automatic frequency self-checking at start-up</li> </ul>					
		Control System	<ul style="list-style-type: none"> <li>● Touch screen LCD set and display welding parameter</li> <li>● Time control mode(Delay/Weld/Hold)</li> <li>● Energy control welding mode</li> <li>● Built-in 20 sets of welding parameters storage function (10 sets of time mode and 10 sets of energy mode)</li> <li>● Adopt RS482/RS485 communication interface</li> <li>● Connect to the computer to synchronize the welding parameters</li> <li>● Connect to a computer to monitor and transmit each welding parameter and status (EXCEL)</li> <li>● Synchronous dual start button, emergency button for cylinder up &amp; ultrasonic vibration stop</li> </ul>				
		MECHANISM	Air Source	6kg/cm <sup>2</sup>			
			Cylinder	φ63mm		φ32mm	
			Stroke	75mm		50mm	
			Column	φ100mm		φ56mm	
			Lift Mechanism	Linear slider		Precision guide rod	
	GENERATOR SIZE (L×W×H)		505×295×162mm				
	GENERATOR WEIGHT		9.6kg				
MACHINE DIMDENSION (L×W×H)		677×408×1040~1400mm		475×300×760~1020mm			
MACHINE WEIGHT		91kg		40kg			

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## Customized Automation Equipment

### Multi-head

#### ■ Car Dashboard Welding Machine



Air Duct



Holder Parts



Console



Infusion Set Rings Automatic Welding



HDPE Geo-cell Welder



Cooling Fan Welder

#### ■ Car Bumpers Welding Machine



Front Bumper



Rear Bumper



Ultrasonic Liquid Crystal De-bubbling M/C



Interdenal Brush Blistles Insert Welding

#### ■ Ultrasonic Spindle for CNC Machine



BT30 Spindle



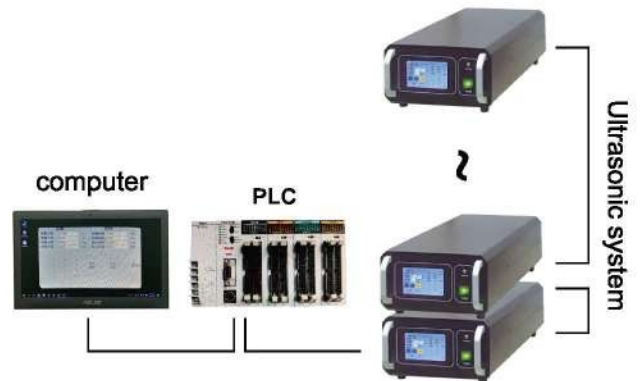
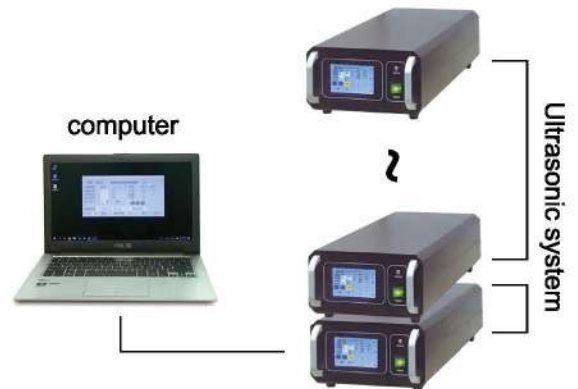
Auto Collets Changing Spindle



Ultrasonic Filter Bag Welding

## Digitized Ultrasonic Module

- Automatic tuning ( frequency control).
- Resonance frequency compensation during welding cycle.
- Full bridge IGBT modules are used in the generator to improve durability.
- PWM (Pulse Width Modulation) amplitude control.
- PWM controls amplitude during start-up to prevent horn damage due to high voltage starts.
- 8 kinds selective start-up settings for ultrasonic activation to match various requirements of horn's design .
- Protection against Ultrasonic frequency offset & high voltage overload.
- Frequency compensation as horn's working temperature increase.
- Automatic frequency self-checking at start-up.
- Touch screen LCD set and display welding parameter.
- Time control mode(Delay/Weld/Hold).
- Energy control welding mode.
- Built-in 20 sets of welding parameters storage function (10 sets of time mode and 10 sets of energy mode).
- Adopt RS482/RS485 communication interface.
- Connect to the computer to synchronize the welding parameters.
- Connect to a computer to monitor and transmit each welding parameter and status(EXCEL).
- Connected PLC/HMI, one PLC/HMI can control multiple sets of ultrasonic modules (up to 15 units).



**Generator**

- Specification  
(Freq.): 15KHz / 2600W  
20KHz / 2600W  
30KHz / 900W  
35KHz / 900W  
(Dim.): 505×295×162mm  
(L×W×H)  
(Weight): 9.6Kg



**Converter**

- Specification  
(Freq.): 15KHz / 2600W  
20KHz / 2600W  
30KHz / 900W  
35KHz / 900W  
※15KHz without housing



**Booster**

- Specification  
(Freq.) & (Amplification Factors) :  
15KHz : 1:1 / 1:1.25 / 1:1.5 / 1:1.75 / 1:2  
20KHz : 1:1 / 1:1.25 / 1:1.5 / 1:1.75 / 1:2  
30KHz : 1:1 / 1:1.5 / 1:2  
35KHz : 1:1 / 1:1.5 / 1:2

## Nylon shell series

- Nylon shell, portable, easy to operate.
- High quality, price reasonable.
- Work stable, safe to use.
- Convenient to carry, widely used.



35K pistol 800W



28K pistol 700W



28K pistol 800W



20K pistol 900W



28K pen type 300W



28K pen type 800W

## Specification parameter

Classification	pistol type					pen type		
	Frequency(KHz)	35	28	28	28	20	28	28
Power(W)	500	300	700	800	900	300	700	800
Welding Head	<10mm	<10mm	<10mm	<12mm	<12mm	<10mm	<12mm	<12mm
Dia.Of Shell	51mm	51mm	51mm	64mm	64mm	40mm	45mm	60mm
The handle Size	100mmx45mmx32mm					—	—	—
Weight	0.5kg	0.5kg	0.5kg	1.2kg	1.2kg	0.4kg	0.5kg	1.0kg
Digital generator	•	—	•	•	•	—	•	•
Analog generator	•	•	•	•	•	•	•	•
Application	ABS,HIPS, PMMA,MPPPO	PVC,PP,PE	Aldehyde-resin,pc	PC,PSU,PA	Nylon,PE, PBT	PVC,PP,PE	Aldehyde-resin,pc	PC,PSU,PA
welding type	rivetweld,spot welding,embossed welding							



Rivet welding

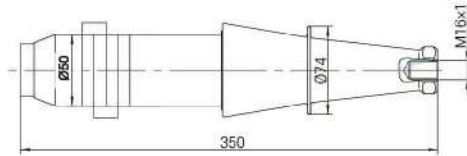
Spot welding

Embossing welding



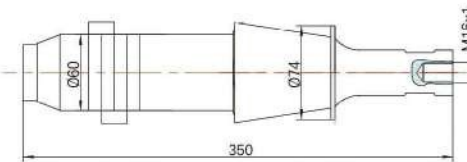
### KS-1560-4BZ-BZ

Power	Frequency range	Resistance range	Capacitor range			Transducer shape	Material of booster
(W)	(kHz)	( $\Omega$ )	yellow ceramic	grey ceramic	black ceramic		
1800	14.70-14.90	< 20	9000-10000	10000-11000	12500-13500	Type column	Steel



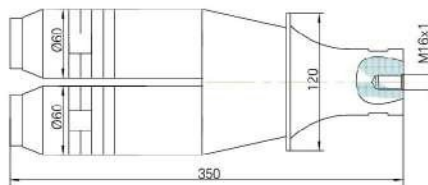
### KS-1560-4BZ-RS

Power	Frequency range	Resistance range	Capacitor range			Transducer shape	Material of booster
(W)	(kHz)	( $\Omega$ )	yellow ceramic	grey ceramic	black ceramic		
2600	14.70-14.90	< 20	9000-10000	10000-11000	12500-13500	Type column	Steel



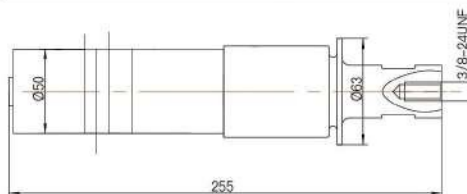
### KS-1560-4BZ-LS

Power	Frequency range	Resistance range	Capacitor range			Transducer shape	Material of booster
(W)	(kHz)	( $\Omega$ )	yellow ceramic	grey ceramic	black ceramic		
4200	14.70-14.90	< 20	18000-20000	20000-22000	—	Type column	Steel

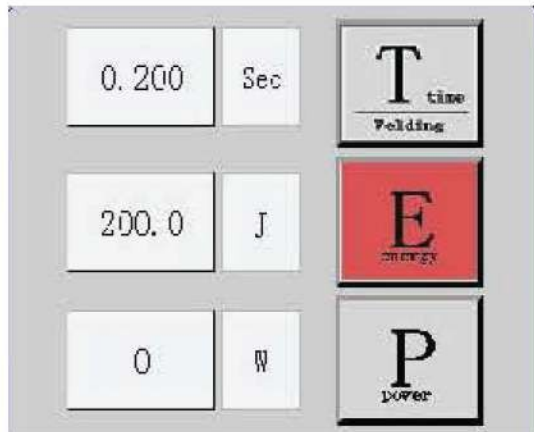


### KS-2050-4CZ-BJ

Power	Frequency range	Resistance range	Capacitor range			Transducer shape	Material of booster
(W)	(kHz)	( $\Omega$ )	yellow ceramic	grey ceramic	black ceramic		
1500	19.70-20.00	< 20	11000-12000	13000-14000	14500-16000	Long column	Steel



## Ultrasonic Plastic Welder



3 Welding Mode

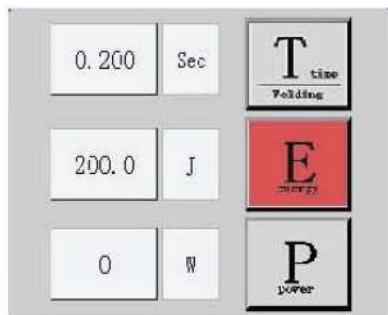


### *GW Pneumatic Ultrasonic Welder Series*

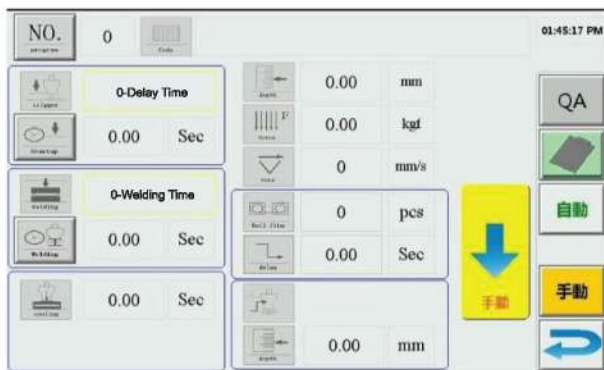
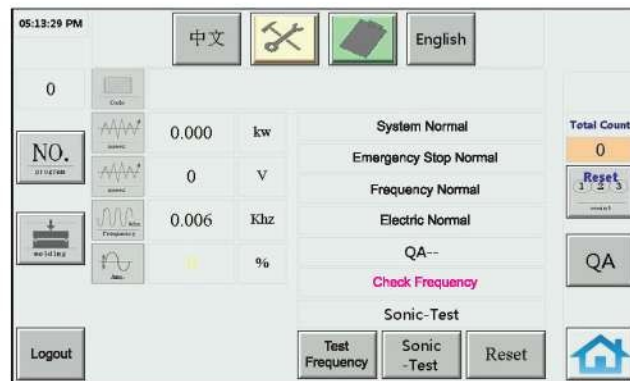
G Series Welders: integrated an ultrasonic digital generator, controllers, and welding equipment; equipped with multiple welding modes and future-oriented iQS operating system; plus sturdy equipment with accurate and well-practiced drive components, can comply with the customer's conventional welding requirements for a welding strength close to the strength of raw material. They have powerful functions to obtain a unique effect, meet the needs of various products and promote the users' production efficiency and product aesthetics.

### Features

- 7" touch screen
- Using iQS control system
- IGBT auto tuning frequency adjustment
- 3 welding mode: Time, Energy, Power
- 16G memory capacity
- Multi trigger amplitude
- External accessory signal such as enclosure, film feeder, and automation interface
- System data display all welding parameters
- Product reading method by Bar code / Qr code
- Memory data transfer by USB port
- IOT dynamic data transfer by ethernet. RS485, RS232



3 Welding Mode



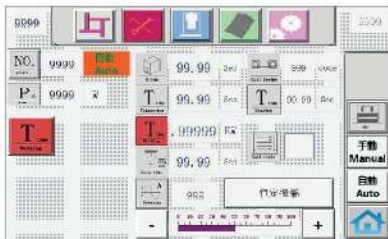
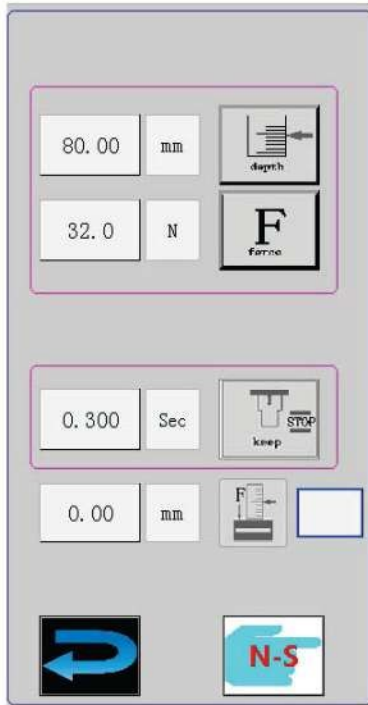
Multi Trigger Amplitude



Welding Parameters

Model	GW1530	GW1545	GW2020	GW2030	GW3512	GW4008
Specification						
Frequency	15KHZ	15KHZ	20KHZ	30KHZ	35KHZ	40KHZ
Power	2500W	3000W	4000W	1500W	1200W	800W
Welding 3 mode	Time, Energy, Power					
Max. welding head travel	Ø63*100mm≤2mm		Ø50*80mm≤3.2mm		Ø40*80mm≤3.2mm	
Max. welding time	5 seconds					
Voltage supply	ACC220V15% 50/60Hz					
Main body dimension	500*750*1100mm			470*720*950mm		
Weight	106kg			75kg		

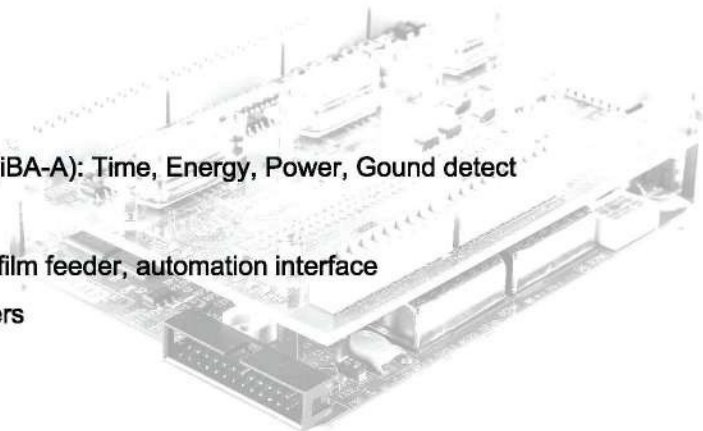
## iBA-A / iBA-F Ultrasonic Plastic Welding Series



The iBA series is the new member from the DONGHO IQS series system, and it is an integrated system that includes the ultra sonic digital generator and welding press machine. It is precise and stable. The iBA series is capable of meeting strict welding requirements through digital welding settings, hierarchical password protection and the application of multiple welding modes.

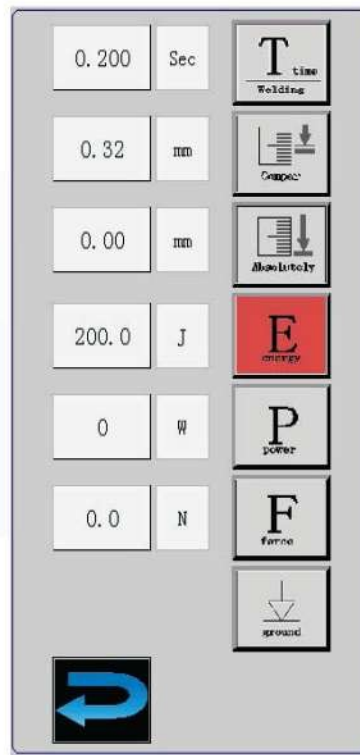
## FULL-DIGITAL Ultrasonic Welding Machine

- 7 " touch screen display
- IQS control system
- IGBT auto tuning frequency adjustment
- Proportional valve
- 3 Welding mode(iBA-F) 4 welding mode (iBA-A): Time, Energy, Power, Ground detect
- Single amplitude control
- Accessory expansion signal : Enclosure, film feeder, automation interface
- System data display all welding parameters
- Product reading by Bar code / QR code
- 8G memory capacity
- Memory data transfer by USB port
- IOT dynamic data transfer by ethernet, RS485, RS232



Model Specification	iBA-F1530e	iBA-F2025e	iBA-F3015e	iBA-F3512e	iBA-F4009e
Frequency	15KHz	20KHz	30KHz	35KHz	40KHz
Power	3000W	2500W	1500W	1255W	800W
Max. welding Head travel	φ 63*80mm±1mm		φ 50*80mm±1mm	φ 40*80mm±1mm	
Max. welding time	5 seconds				
Amplitude Control	Single / AB Trigger				
Quality Control	Time / Energy / Poster / Pressure				
Pre-press Vibration	1) Off 2)Time				
Air pressure range (N)	44N ≤ 2026N				
Parameter Storage	99 SETS				
Voltage supply	AC220V±5% 50/60Hz				
Main body dimension	500*750*1100mm			470*720*950mm	
Weight	106KG			75kg	

## Ultrasonic Plastic Welder



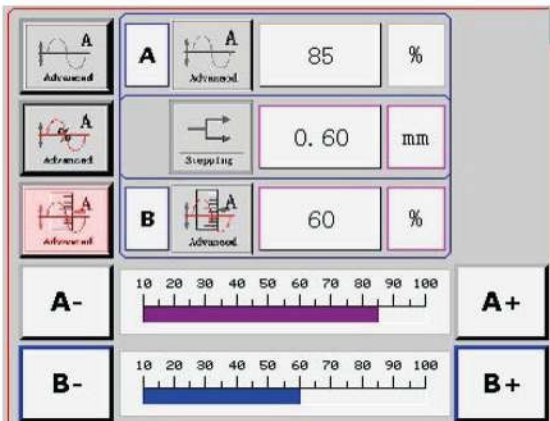
### *iAG Pneumatic Ultrasonic Welder Series*

The iAG welder series of new generation are characterized with several innovative performances and further developed functions; its new iAG Pneumatic Drive System is integrated with the superiorities of pneumatic device and the dynamic properties of electronic drive device plus the certified DONGHO Ultrasonic Proportion Valve Technology that make high-sensitivity, multiplex of welding modes and IQS-functional of control panel available. Thus, they are applicable worldwide for its various passcode levels to protect the welding parameters for processing and its comprehensive control functions to carry out the monitoring & control and statics for welding quality. Also, its data connectivity is able to support Industry 4.0 IOT

### *Features*

- 7 " touch screen
- Using IQS control system
- IGBT auto tuning frequency adjustment
- Linear sensor
- Proportional valve
- 7 welding mode : Time, Distance, End Point, Energy, Power, Pressure, and Ground detect
- 16G memory capacity
- Using single, AB Mode, distance trigger amplitude control
- External accessory signal such as enclosure, film feeder, and automation interface
- System data display all welding parameters
- Product reading method by Bar code / QR code
- Memory data transfer by USB port
- IOT dynamic data transfer by ethernet. RS485, RS232

## Ultrasonic Plastic Welder



multi trigger amplitude



Model	iAG2025e	iAG2030e	iAG2040e	iAG3015e	iAG3512e	iAG4008e
Specification						
Frequency	20KHz	20KHz	20KHz	30KHz	35KHz	40KHz
Power	2500W	3000W	4000W	1500W	1200W	800W
Max. welding head travel	φ63*100mm≤2mm			φ50*80mm≤3.2mm	φ40*80mm≤3.2mm	
Max. welding time	5 seconds					
Voltage supply	ACC220V15% 50/60Hz					
Main body dimension	500*750*1100mm			470*720*950mm		
Weight	106kg			75kg		

# ***Servo Driven Ultrasonic Welder***



*The servo driven series is ideal for welding, cutting, punching thermoplastics, non woven and textiles.*

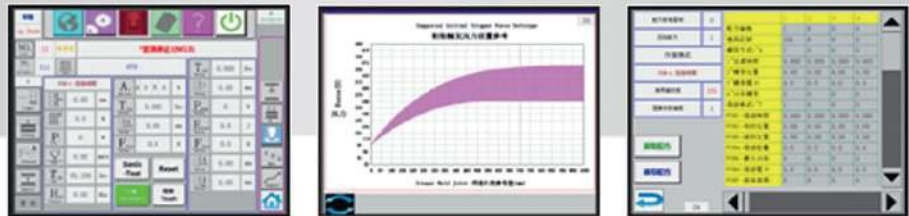
*Thanks to servo driven, the controller is extremely precise, repeatability, reliability and accuracy.*

*In addition to the 7 welding modes, a trigger can be set to initiate the ultrasound.*

## ***Features :***

- 7 " touch screen
- iQS operating system
- Servo drive
- IGBT auto tuning frequency adjustment - Linear sensor
- 7 welding modes : time/distance/end point/energy/power/pressure/ground
- Single/ AB model/distance trigger amplitude control
- Enclosure, film feeder, automation interface
- System data display all welding data - Product reading by Bar code/QR code
- 16G memory capacity
- Memory data transfer by USB port
- IOT dynamic data transfer by Ethernet, RS485, RS232

## Servo Digital Ultrasonic



Model	IQS2025e	IQS2030e	IQS2040e	IQS3015e	IQS3512e	IQS4008e
Specification						
Frequency	20KHz	20KHz	20KHz	30KHz	35KHz	40KHz
Power	2500W	3000W	4000W	1500W	1200W	800W
Max. Welding Head Travel	100mm $\times$ 2mm			80mm $\times$ 3.2mm		
Max. Welding Time	5 seconds					
Amplitude Control	Single / Ab Mode / Distance Trigger					
Quality Control	Time / Distance / End point / Energy / Power / Pressure / Gramal Detect					
Pre-Press Vibration	1)Off 2)Time 3)Position					
Air Pressure Range (N)	44N $\leq$ 2026N					
Parameter Storage	99 sets					
Voltage Supply	AC220V $\pm$ 5%/50/60Hz					
Main Body Dimension	500*750*1100mm			470*720*950mm		
Weight	106kg			75kg		

QA	上限	>	下限	
T <sub>time</sub> Folding	<input type="text"/>	0.000	0.000	sec
depth	<input type="text"/>	0.00	0.00	mm
I <sub>time</sub> Folding	<input type="text"/>	0.00	0.00	mm
P <sub>power</sub> Folding	<input type="text"/>	0	0	W
E <sub>energy</sub> Folding	<input type="text"/>	0.0	0.0	J
F <sub>force</sub> Folding	<input type="text"/>	0.0	0.0	N

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### Ultrasonic Plastic Welding Machine

#### High-power plastic welding system

The NEW DONGHO Ultrasonic Plastic Welding System is capable of welding large work pieces with up to 700mm dimension speedily and reliably.

#### Excellent welding capability

The flatness of the welding surface is superior to the conventional ones, which helps efficiently reduce the energy consumption in transmission



Single Head



Double Heads

-  The best choice
-  High power
-  New design
-  More reliable & stable

### Features

- 7 " touch screen
- iQS control system
- IGBT auto tuning frequency adjustment
- Pressure regulating valve
- Welding mode : Time, Energy
- Single, Strong, Soft amplitude control
- Accessory expansion : Enclosure, film feeder, automation interface
- 128MB memory capacity
- Memory data transfer by USB port



Model	iAL1550e	iALB1550e
Specification		
Frequency	15KHz	15KHz
Power	5000W	5000W*2
Max. welding head travel	φ100*100mm±1mm	
Max. welding time	5 seconds	
Voltage supply	AC220V±5% 50/60Hz	
Main body dimension	1200*1150*2100mm	
Weight	350kg	405kg

## PLASTIC & LAMINATE TUBE SEALING AND CUTTING MACHINE MANUAL TYPE



**HORN , JIG AND CUTTER**



**ULTRASONIC SEALING AND CUTTING MACHINE**

MODEL : UT 2006  
POWER SUPPLY : 230 VAC  
PROCESS : ULTRASONIC SEALING AND CUTTING  
CYCLE TIME : 5 SEC PER TUBE  
TUNE DIAMETER : 10MM ~ 50MM DIA MAX

## RGBZF(RGBNF)

### Semi-Automatic Tube Filling and Sealing Machine

Widely used in all kinds of tubes: metal tube, PE tube and plastic tube alike, etc.

#### FUNCTIONS

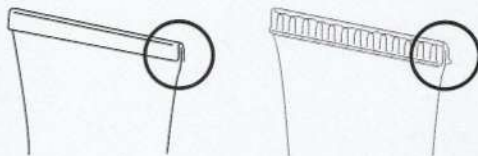
- \*Compact design, tube load by hand, and driving part fully closed.
- \*The whole process of filling, folding (heating), sealing, printing, cutting, and finished products output all finished automatically.
- \*Easy operation and adjustment.
- \*Metal tube can be two hem, three hem, saddle type hem, etc. many kinds of method of sealing tails through different manipulator at the same sets of machine.
- \*Especially suitable for users producing multi- specification tube, adjusting conveniently and swiftly.
- \*The part contacting materials is made of 316L stainless steel, clean, sanitary and Completely conforming to CMP.
- \*Without tube without filling, overload protection provided.

#### SPECIFICATIONS

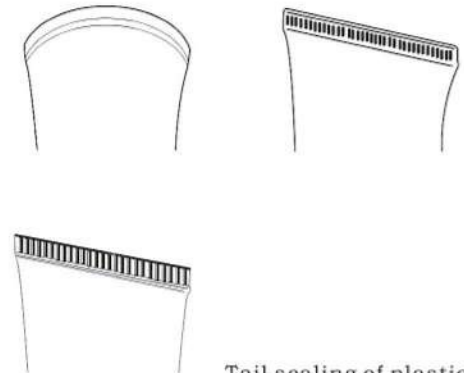
Type	RGBZF	RGBNF
Applicable Tube	Metal Tube	Plastic Tube
Filling Volume	(adjustable) 5-200 ml	(adjustable) 5-200 ml
Filling Accuracy	$\leq \pm 1\%$	$\leq \pm 1\%$
Productive Speed	1500-3000 units/hour	900-1800 units/hour
Tube Diameter	$\Phi 10-40$ (Large volume can be custom-made)	$\Phi 10-40$ (Large volume can be custom-made)
Max. Length	180 ( can be custom-made)	180 ( can be custom-made)
Power	380/220 V (Optional)	380/220 V (Optional)
Air Pressure	0.4-0.6 Mpa	0.4-0.6 Mpa
Dimension	1300×800×1900 mm	1300×800×1900 mm
Weight Approx	600 Kg	600 Kg



#### METHOD OF TUBE SEALING



Tail folding of metal tube



Tail sealing of plastic tube



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## RGNF-30(RGNF-30B)

Button Type Fully Automatic Tube Filling and Sealing Machine.

### SPECIFICATIONS

Filling Volume: 5ml-250ml/unit(Adjustable)  
Filling Accuracy :  $\leq \pm 1\%$   
Capacity: 1800-2400 units/hour  
Tube Diameter:  $\phi 10-50\text{mm}$   
Tube Length: 210mm(Max. Length)  
Hopper Volume: 40 L  
Power: 380V/220V(Adjustable)  
Air Pressure: 0.4-0.6Mpa  
Equipped Motor: 1.1kw  
Machine Power: 5 kw  
Inner wind Motor: 0.37kw  
Convulsions Motor: 0.37kw  
Dimension: 1900(L)x850(W)x1900(H)mm  
Weight: Approx 850kg



## RGZF-60B (RGZF-60)

Touch Screen Type Fully Automatic AL Tube Filling and Sealing Machine.

### SPECIFICATIONS

Filling Volume: 5ml-120ml/unit(Adjustable)  
Filling Accuracy:  $\leq \pm 1\%$   
Capacity: 2400-3600units/hour(Adjustable)  
Tube Diameter:  $\phi 10-\phi 40\text{mm}$ (Adjustable)  
Tube Length: 210mm(Can order)  
Hopper Volume: 40L  
Power: 380V/220V(Adjustable)  
Air Pressure: 0.4-0.6Mpa  
Equipped Motor: 1.1 kw  
Machine Power: 2kw  
Dimension: 1900(L)x850(W)x1900(H)mm  
Weight: Approx 850kg

## ULTRASONIC LACE SEWING MACHINE

### KS-85 , KS-72 , KS-200A , KS-200A ARCH



**KS-72**  
3", 2" wide roller



**KS-85**  
2", 1" wide roller



**KS-200A**  
8" wide roller

#### Features:

1. Use ultrasonic energy to cut, weld, seal, seam, hole, emboss, stitch, slit, form, color & fold.
2. Need no traditional needle & thread.
3. No dissipated edge, wrinkle & shrinkage.
4. Can work continuously for mass production can work curves; easy to change Rollers.
5. Can print color on the laces with colored paper.
6. Accurate & durable alloy Rollers are designed by computer aid & made with sculptural molds.
7. Thousands of pattern roller designs available.

#### Suitable materials:

Fabrics of synthetic composition over 65%, polyester, nylon, tetoron, TC, sponge, non-woven fiber (2mm thick totally in 3 layers), Thermo-plastic films, steel wire feed in, hot printing paper.

#### Applications:

Lace clothes, sport wear, garment, doll, gloves, table cloth, covers for chair, bed or pillow, coverlet, window curtain, non-woven mask, packing ribbon, wire ribbon, Christmas ornament, flowers formed animals.



**KS-200A ARCH TYPE**  
8" wide roller



#### Ultrasonic Rhinestone Sealer



- KWF-0160**
- Power output : 100W 58KHz
  - Power source : 110V or 220V 1.5A 60/50Hz
  - Dimension : 170 × 220 × 310 mm
  - Applications : Clothes, Brassiere, Stocking, Toy, Shoes, Ornament.
  - Materials : Cloth, Jean, Velvet, Paillette, Simulated Diamond, Acrylic Jewelry.

#### Specifications:

MODEL NO.	KS-82	KS-85	KS-72	KS-200A	KS-200A ARCH
OUTPUT POWER	1400 W			2000 W	
FREQUENCY	20 KHz			20 KHz	
WORKING SPEED	0~18 m/min.			0~9 m/min.	
WELDING WIDTH	1.0~48 mm		1.0~70 mm	200 mm	
ALTERNATIVE ROLLER	1", 2"		2", 3"	8"	
LINE SOURCE	220V 1P 10A			220V 1P 20A	
WORKING TABLE (mm)	W1200 × L550			W1200 × L600	W1800 × L600
AIR SOURCE	7 Kg/cm <sup>2</sup>			7 Kg/cm <sup>2</sup>	
NET WEIGHT	130 Kg		150 Kg	250 Kg	400 Kg
DIMENSIONS (mm)	W1200 × L550 × H1010			W1400 × L600 × H1400	W2000 × L650 × H1400
THICKNESS OF MATERIAL	0.03~2.0 mm		0.03~1.5 mm	0.03~0.5 mm	

※ NO NOTIFICATION FOR DESIGN CHANGES.

## ULTRASONIC SEALING M/C

### KS-2010 , KS-3010



**KS-2010**



KS-2010



KS-2010C



**KS-3010**



KS-3010

#### Features :

1. Increased height working head to allow wider working space and convenient operation.
2. Sewing head can be moved either rightward or leftward to reduce horn abrasion.
3. Table top control makes the operation convenience.
4. Knee control for cylinder up and down automatically.
5. With assistant working lamp.

#### Applications:

Seamless garments, outdoor wear, bag, sports wear, lingerie, etc.



Fabric after sealed



Fabric after sealed

#### Suitable materials:

Functional fabrics such as breathable, windproof, waterproof, outdoor wear fabrics etc...



#### Specifications:

MODEL NO.	KS-2010	KS-2010C	KS-3010
OUTPUT POWER	1400 W	1400 W	900 W
FREQUENCY	20 KHz	20 KHz	30 KHz
ULTRASONIC SYSTEM	Continue Vibration		Auto Tuning
MAX WORKING SPEED	0~18 m/min.		
ROLLER SIZE	φ 60.3×10 mm		
HORN SIZE	φ 54 mm	φ 24 mm	φ 28 mm
LINE SOURCE	AC220V, 1P, 10A		
AIR SOURCE	5 Kg/cm <sup>2</sup>		
PATTERN ORIGINAL POSITION DETECTED	○	○	○
MACHINE SIZE (L×W×H)	120×55×120 cm		

※ NO NOTIFICATION FOR DESIGN CHANGES.

## ULTRASONIC SURGICAL GARMENT SEWING M/C

### KS-05A , KS-05B , KS-10



**KS-05A**  
Cuff Sewing



**KS-05B**  
Sleeve Sewing



**Floor Type**



**Surgery Garment Purpose!**

**Table Type**

**KS-10**  
Edge Sewing

Control

#### Features:

- With a ultrasonic generator, horn vibration energy and pattern sealing wheel enable tight turns of material in sealing/cutting.
- Design pattern change of rollers enable sealing/cutting more quality, beautiful & strong.
- It enables straight or curve sealing/cutting to meet application requirements.
- It provides a benefit over conventional stitch, needs no needle & thread. Cost down & easy operation.
- No stitch holes prevent penetration of liquids, blood-borne particulates, provide air-water tight or water-tight air through effect.
- Optional jig can control quality and increase production speed.
- Special arm design enables sealing cuff or sleeve more steadily and faster.

#### Applications:

- Materials such as non-woven fabric, polyester, nylon, thermoplastic film are suitable for processing.
- Typical applications: medical surgery garments, disposable hospital gowns, surgery caps, shoe covers.
- Industry use: cleanroom & laboratory use anti-dust garments, caps, gowns, air-com filter.
- Living use: shower caps, car-seat covers, coat, suit-cover.



#### Specifications:

MODEL NO.	KS-05A	KS-05B	KS-10
OUTPUT POWER	1200W		
FREQUENCY / ULTRASONIC SYSTEM	20KHz Continue Vibration		
WELDING SPEED	0 ~ 18 m/min.	0 ~ 18 m/min.	0 ~ 15 m/min.
WELDING WIDTH	1.0 mm ~ 5.0 mm	1.0 mm ~ 10.0 mm	1.0 mm ~ 10.0 mm
LINE SOURCE	AC220V, 1P, 10A		
AIR SOURCE REQUIRED	6 Kg/cm <sup>2</sup>		
WORKING TABLE	54 × 43 cm (φ 75mm)	18 × 40 cm (φ 90mm)	50 × 40 cm
NET WEIGHT	80 Kg	80 Kg	50 Kg
MACHINE SIZE	135 × 54 × 127 cm	120 × 54 × 127 cm	Machine : 65 × 68 × 44 cm Control : 54 × 18 × 40 cm
THICKNESS OF MATERIAL	0.03 mm ~ 1.0 mm		

※ NO NOTIFICATION FOR DESIGN CHANGES.

## ULTRASONIC ROLL SEAM SEALING M/C

**KS-3510V / VT / H / R**



**Features:**

- Sealing synthetic textiles with rolling horn for easy control fabric.
- Bonding the fabric with tape, specially for 3D bonding,
- 3 kinds different arms for selection.

**KS-3510E**



**Features:**

- Special for bonding flat area.

**Applications**

Non-woven products, masks, surgical and medical garments, gloves, allergen bedding and covers, chemical suits, sports wear, lingerie, bathing suits, etc.



**Specifications:**

MODEL NO.	KS-3510V	KS-3510VT	KS-3510H	KS-3510R	KS-3510E
OUTPUT POWER	900W				
FREQUENCY	35 KHz				
ULTRASONIC SYSTEM	VCO SYSTEM				
MAX WORKING SPEED	0~12 M/MIN				
ROLLER SIZE	φ 50x10 mm				
BONDING WIDTH	11 mm				
LINE SOURCE	AC220V, 1P, 10A				
AIR SOURCE	5KG/cm <sup>2</sup>				
THE WORKING TYPE	VERTICAL ARM	VERTICAL ARM & TABLE	HORIZONTAL ARM	ROUND ARM	FLATE BONDING
MACHINE SIZE	1200x550x1200 mm				

※ NO NOTIFICATION FOR DESIGN CHANGES.

## ULTRASONIC STITCHING M/C

**KS-08**



**Feature:**

- Replace traditional stitching with more accurate performance.

**Suitable materials:**

Fabrics of synthetic composition over 65% polyester, nylon, tetoron, non-woven fiber, etc.

**Applications**



**Specifications:**

MODEL NO.	KS-08
OUTPUT POWER	900 W
FREQUENCY	35 KHz
ULTRASONIC SYSTEM	VCO SYSTEM
MAX WORKING SPEED	0~12 M/MIN
HORN DIMENSION	12 × 10 mm
LINE SOURCE	AC220V, 1P, 10A
AIR SOURCE	5KG/cm <sup>2</sup>
MACHINE SIZE(L × W × H)	126 × 55 × 103 cm

## ULTRASONIC CUTTER

**KSH-0935**



**Features:**

- For single Layer fabric cutting
- Suit for making sample.

**Suitable materials:**

Fabrics of synthetic composition over 65% polyester, nylon, tetoron, non-woven fiber, etc.

**Specifications:**

MODEL NO.	KSH-0935
OUTPUT POWER	900 W
FREQUENCY	35 KHz
ULTRASONIC SYSTEM	VCO SYSTEM
MAX WORKING SPEED	0~12 M/MIN

## HOT-AIR FABRIC EDGE TRIMMING & HEMMING M/C

### KHA-850K , KHA-850H , KHA-810,830



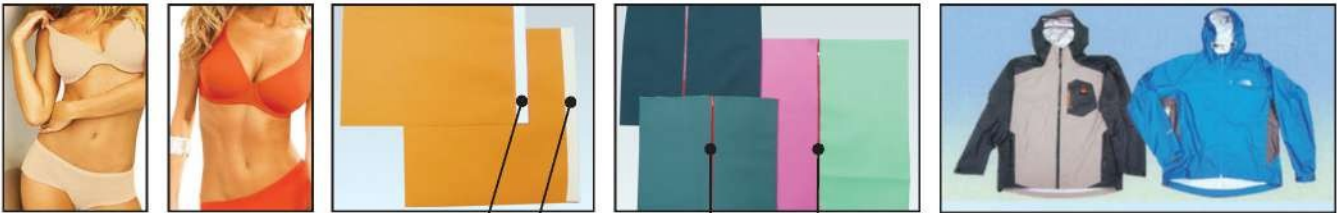
#### Features :

1. Working speed can adjust independently & can easily converted for different application.
2. Hot Air flow is adjustable according to different work required.
3. Hot Air temperature is adjustable to different applied material.
4. Adjustable pressure upper wheel to suit for different work required.
5. Touch screen display with PLC control possible for multiple parameters storage.

#### Suitable materials:

Fabrics of synthetic composition over 65% polyester, nylon, lycra, etc...

**Applications:** Lingerie, swimwear, sportswear, outdoorwear, etc...



Trim Hem Overlap

#### Specifications:

MODEL NO.	KHA-850K	KHA-850H	KHA-810	KHA-830
APPLICATION	Pre-tapping & Trimming	Hemming	Hemming	Hemming
LINE SOURCE	AC220V 50/60Hz 1P			
AIR SOURCE	$\geq 6 \text{ Kg/cm}^2$			
HOT-AIR SYSTEM	PID fuzzy control			
MOTOR TYPE	Stepping Motor			
OPERATION	Touch screen			
MACHINE SIZE(LxWxH)	110×52×180 cm	110×52×120 cm	120×52×125 cm	120×52×125 cm
MACHINE NET WEIGHT	110 Kg	100 Kg	110 Kg	110 Kg

※ NO NOTIFICATION FOR DESIGN CHANGES.

## ULTRASONIC QUILTING MACHINE



**KQ-600**



**KQ-1600**



**KQ-1900**

### Features:

1. Unit meets to either soft, bulky or multi-layer products with different materials.
2. No pre-heat is needed before operation. Quilting process can be carried out immediately after switched on.
3. Various patterned products can be obtained by changing patterned rollers in a short time.
4. With automatic indicating system which is able to detect abnormal working and to stop running for avoiding further loss.
5. Selectable options such as Outlet Automatic Centering Device or Cutters to ensure efficiency and productivity.



Ultrasonic System



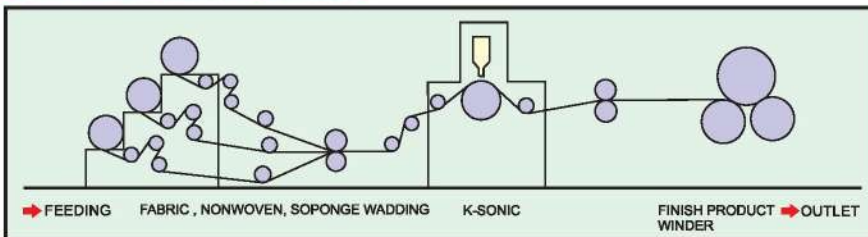
**KQ-2400**



### Applications:

Car covers, chair covers, coverlets, blankets, bed covers, seat cushions, pillow cases, aprons, robes, winter jackets, sleeping bags, shoes, etc.

### Standard Quilting Line:



※Selectable Options: Outlet Automatic Centering Device, Cutters.

### Specifications:

MODEL NO.	KQ-600	KQ-1600 ~ KQ-2400
OUTPUT POWER	1400 W	1400 W
FREQUENCY	20 KHz	20 KHz
WEB WIDTH	600 mm	1600~2400 mm
WORK SPEED	5~15 m/min.	5~15 m/min.
ULTRASONIC SYSTEM	3 Units	8~12 Units
LINE SOURCE	220V/380V, 50/60Hz 3P	220V/380V, 50/60Hz 3P
AIR SOURCE	6Kgs/cm <sup>2</sup>	6Kgs/cm <sup>2</sup>
MACHINE WEIGHT	1000 Kgs	2000~3000 Kgs

※Specifications are subject to change for product improvement.



## High Frequency Plastic Welding Machine

**Materials: PVC, PU, PTU, PEVA, PET-G, leather of over 30% PVC**



**MODEL:**  
**KF-50T**

**Features:**

1. Easy to use & adjust due to big top platen.
2. Machine equips with anti-flash and high sensitive suppressor which makes machine safe to operate, stability and high efficiency.

**Application:**

Vacuum blister pack



**MODEL:**  
**KF-50**



**MODEL:**  
**KFT-50A**

**Features:**

1. Two independent operator stations provide effective and economical production cost.
2. Press movement is achieved by a toggle lever action which results in a very light foot action and high welding pressure on the electrode.
3. With anti-flash and high sensitive suppressor which provides quick response, safe to operate, highly efficiency and stability.

**Applications:**

1. Photo album inside pages, file folders, stationery.
2. CD packaging bags, leather bags, handbag.
3. Swimming rings and inflatable toys.
4. Blood bag, urine bag, medical bag.
5. Cushion for automobile.
6. Name tags, trademark.



**MODEL:**  
**KFT-40**



**◆ Specification**

ITEM MODEL	OUTPUT POWER (KW)	INPUT POWER (KVA)	FREQUENCY (MHz)	POWER SUPPLY (VAC)	PRESS STROKE (mm)	DIMENSION L x W x H (mm)	NET WEIGHT (Kg)	WORKING HEAD	PNEUMATIC
KF-40	4KW	6KVA	27.12	220/380/415/440V, 50/60Hz, 3P	200	900 x 900 x 1600	180	SINGLE	○
KF-50	5KW	7.5KVA	27.12	220/380/415/440V, 50/60Hz, 3P	200	900 x 900 x 1600	250	SINGLE	○
KF-80	8KW	12KVA	27.12	220/380/415/440V, 50/60Hz, 3P	200	1050 x 900 x 1600	400	SINGLE	○
KF-40T	4KW	6KVA	27.12	220/380/415/440V, 50/60Hz, 3P	200	1000 x 1400 x 1600	200	TWIN	○
KF-50T	5KW	7.5KVA	27.12	220/380/415/440V, 50/60Hz, 3P	200	1000 x 1400 x 1600	280	TWIN	○
KF-80T	8KW	12KVA	27.12	220/380/415/440V, 50/60Hz, 3P	200	1150 x 1700 x 1700	450	TWIN	○
KFT-40	4KW	6.5KVA	27.12	220/380/415/440V, 50/60Hz, 1P or 3P	50	1500 x 1000 x 1300	200	TWIN	×
KFT-50	5KW	8.5KVA	27.12	220/380/415/440V, 50/60Hz, 1P or 3P	50	1500 x 1100 x 1300	340	TWIN	×
KFT-80	8KW	15KVA	27.12	220/380/415/440V, 50/60Hz, 1P or 3P	50	1500 x 1200 x 1300	450	TWIN	×
KFT-40A	4KW	6.5KVA	27.12	220/380/415/440V, 50/60Hz, 1P or 3P	50	1500 x 1000 x 1600	230	TWIN	○
KFT-50A	5KW	8.5KVA	27.12	220/380/415/440V, 50/60Hz, 1P or 3P	50	1500 x 1100 x 1600	350	TWIN	○
KFT-80A	8KW	15KVA	27.12	220/380/415/440V, 50/60Hz, 1P or 3P	50	1500 x 1200 x 1600	480	TWIN	○



HR-5000S

## HR

Dial style with single heads of high-frequency

- Using a high-Q value be is installed in this machine. so it is stable and reliable in output.
- High sensitive spark depressing circuit is used for preventing mould damage.
- The dial style structure can improve the production effectively.
- The cylinder propping positioning gadget can make precise positioning of turntable.
- It is made of a whole set high-quality imported components

### Technique specifications

MODEL	HR-4000S	HR-5000S
POWER	4000W	5000W
POWER SUPPLY	380V	380V
ELETRONIC POWER	7KVA	8KVA
PECTIFIER	SILICON DIODE	
VIBRATIONAL TUBE	7T62RB	7T85RB
MAXPRESSUERE	350kg	
MAX GAP OF ELECTRODES	250MM	
SIZE OF ACCTIVE HORN	175MM	
SIZE OF PLAT	400×600mm	
TIME CHANGE	0~10S可調 Adjustable	
SIZE OF SHAPE	1000×1600×1730	
NET WEIGHT	400kg	420kg

## HR

Dial style with single heads of high-frequency

- Using a high-Q value be is installed in this machine. so it is stable and reliable in output.
- High sensitive spark depressing circuit is used for preventing mould damage.
- With the movable table style structure, it can save time and strength and easy to be operated.
- With a double cylinder working table location fixing gadget, it can fix location precisely
- It is made of a whole set high-quality imported components.



HR-8000A

### Technique specifications

MODEL	HR-8000A	HR-12KA
POWER	8000W	12KW
POWER SUPPLY	380V	380V
ELETRONIC POWER	12KVA	16KVA
PECTIFIER	SILICON DIODE	
VIBRATIONAL TUBE	7T69RB	3130RB
MAXPRESSUERE	450kg	500Kg
MAX GAP OF ELECTRODES	250mm	
SIZE OF ACCTIVE HORN	200mm	
SIZE OF WORKING PLAT	600×800mm	700×900mm
TIME CHANGE	0~10S Adjustable	
TIME CHANGE	The whole pneumatic controlling	
SIZE OF SHAPE	1000×720×1860	1200×820×1900
NET WEIGHT	500kg	800kg

## HR

pressure style with two heads of high-frequency



HR-5000TA

- Using a high-Q value vibration tube is used in this machine, so it is stable and reliable in output.
- With a structure of double guide rod, it is precise and flexible.
- Time can be pre-set up, and the circuit can Counter-action of two circuits, the head of machine work alternately.
- A high sensitive spark preventing gadget is installed in this machine, it can prevent effectively wearing mould.
- Giving pressure by a level elbow joint, it can save the strength and give even pressure.
- It is made of a whole set high-quality imported components

### Technique specifications

MODEL	HR-5000TA	HR-8000TA
POWER	5000W	8000W
POWER SUPPLY	380V	380V
ELECTRONIC POWER	9KVA	13KVA
RECTIFIER	SILICON DIODE	
VIBRATIONAL TUBE	7T85RB	7T69RB
MAXPRESSUERE	1000kg	
MAX GAP OF ELECTRODES	160~ 220MM	
SIZE OF ACCTIVE HORN	60MM	
SIZE OF WORKING PLAT	350×700mm	400×800mm
SCALE OF TEPRETURE	30~300℃	Adjustable
TIME CHANGE	0~10S	Adjustable
SIZE OF SHAPE	1800×1200×1500	1900×1300×1700
NET WEIGHT	400kg	450kg

## HR

Pneumatic style with two heads of high-frequency

- Using a high-Q value vibration tube is used in this machine, so it is stable and reliable in output.
- Its pneumatic fitting is good for saving time and strength with excellent coherence and easy to be Operated.
- The program is pre-setting up, and the circuit can Counter-action of two circuits, The head of The machine can transfer work automatically.
- A high sensitive fire preventing gadget is adopted in this machine, it can prevent wearing effectively.
- The high precise temperature controlling can assure the coherence of welding.
- It is made of a whole set high-quality imported components.



HR-8000TA

### Technique specifications

MODEL	HR-8000T	HR-8000TA
POWER	8000W	8000W
POWER SUPPLY	380V	380V
ELECTRONIC POWER	12KVA	12KVA
RECTIFIER	SILICON DIODE	
VIBRATIONAL TUBE	7T69RB	
MAXPRESSUERE	200kg	450kg
MAX GAP OF ELECTRODES	160~ 220mm	
SIZE OF ACCTIVE HORN	60mm	
SIZE OF WORKING PLAT	400×800mm	
TIME CHANGE	0~10S	Adjustable
SIZE OF SHAPE	1800×1200×1600	
NET WEIGHT	360kg	350kg

## Hot Plate Plastic Welding Machine

A Sharp Tool for welding large size or irregular shaped parts

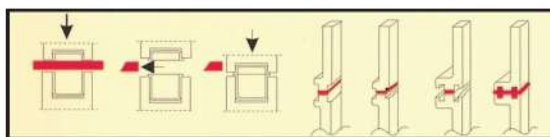


**KH-31**

### HOT MOULDS



### WORKPIECES



**KH-33**

### Principle:

- The machine is constructed of main body, hot mold set and upper-lower jig fixtures.
- The part joint surfaces melt in proper weld time when pressed against the hot plate.
- The hot plate retracts. The parts are forced together & solidified in proper hold time.

### Suitable material:

- PP, PE Nylon, Acrylic, PS, ABS, PVC.

### Applications:

- **Automobile parts such as**  
Signal light, tail light, battery, air cleaner, bumper, glove box lids, fuel or oil filter, tank, break oil container.
- **Appliances such as**  
Plastic Pallet, massage pedal, washing machine balance ring, pump, filter, steam iron, fan housing.

### Features:

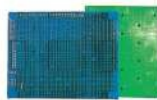
1. Suits particularly assembly of parts with large size or irregular shape.
2. Suits for poor ultrasonic transmission material.
3. Could provide waterproof or airproof after weld.
4. Could weld two mold cavities in one stroke.

### Optional Features:

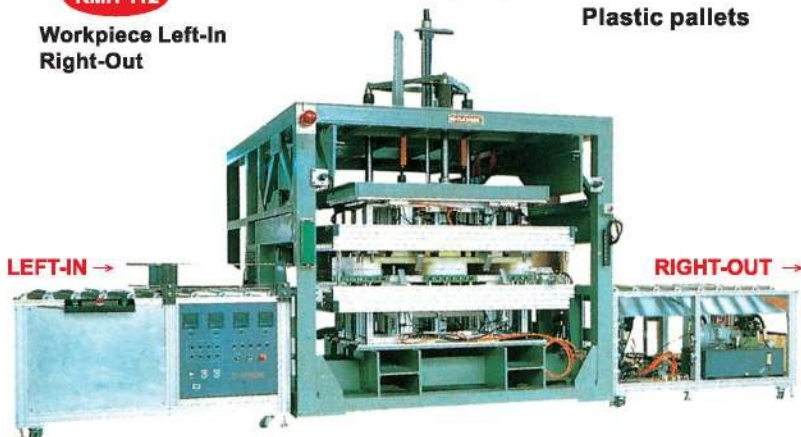
- PLC (Programmable Logic Controller)
- Safety photo sensor door
- Alarm light

**KMH-112**

Workpiece Left-In  
Right-Out



Plastic pallets



LEFT-IN →

RIGHT-OUT →

**KMH-212**

Workpiece Front-In  
Front-Out



### ◆ Specifications:

Model	KH-31	KH-33	KMH-112	KMH-212
Line Source	220V 1P 40A		380V 3P 200A	
Air Source	6 Kgs/cm <sup>2</sup>		6 Kgs/cm <sup>2</sup>	
Welding Area Max. (mm) (L × W × H)	450 × 350 × 250		1600 × 1600 × 250	1000-1200 × 1000 × 200
Machine Dimension (mm) (L × W × H)	1550 × 1350 × 2230		2200 × 2200 × 2100	1800 × 1600 × 2000
Machine Net Weight	600Kgs		2000Kgs	1500Kgs



## Spin Welding Machine

### Special Features

1. High torque ranges from 1HP to 50HP.
2. Solid construction avoids vibration and kickback during idling.
3. Edge trim system can be easily attached (choose equipment).
4. Production and maintenance experience for more than 500 units.



Model	<b>PU-MS800</b>
Size	L850 x W650 x H1980m/m ; 300kg
Capacity	10~15Pcs. / 1Min
Available	Suitable for use with tubing and filters made of PE, PP, nylon, PET or other materials



## Fixed Position Spin Welding Machine

Accuracy of 1/16384 micro-degree at pre-set stop points, given undetermined number of revolutions

### Special Features

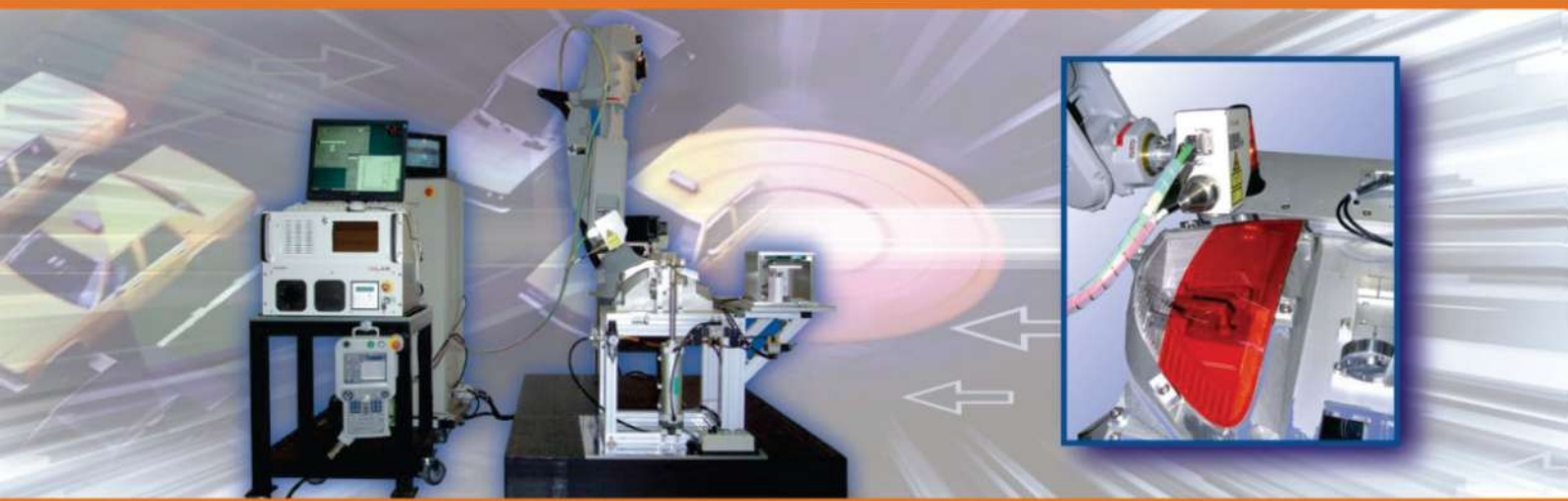
1. Servo control and PLC programmable logic control as well as integrated positioning capability
2. Precision assembly and processing yield the finest finished products
3. More than 65 units ranging in size from 0.75KW to 15KW are already in the market

Model	<b>PU-FS800</b>
Size	L850 x W650 x H1980m/m ; 330kg
Capacity	10~15Pcs. / 1Min
Available	Suitable for use with tubing and filters made of PE, PP, nylon, PET or other materials



# LASER PLASTIC WELDING SYSTEM

Laser Plastic Welding System is to use a Laser Beam (which focused into 0.1mm~2.5mm of diameter) to penetrate through the top layer of polymer, which is defined as the transmission layer and is absorbed by the surface of the lower layer. The surfaces of these two layers of polymer have to attach tightly by Press force. The upper surface of the lower polymer layer absorbs the laser beam energy causes the effects of temperature increasing, melting, expanding and finally affects and melts the lower surface of the upper polymer layer. The melting polymer at the surface of the two layers will joint together molecularly, provide the materials of these two polymer layers are weldable.



## Features

Compare to conventional Ultrasonic, Hot Plate, Vibration plastic welding, Laser Welding has these features:

1. Welding strength is better and consistent (almost 100% to original)
2. Clean, no wear on the surface, no micro particles, no flush inside, no affection to interior component
3. No deformation, no degeneration of material
4. No interior strain, stress
5. More flexible for multi-pattern and few quantity production, especially in auto-industry, the car front and rear lights contour welding complied with 6 axis Robot

## Main Specifications

### A. Laser Module:

- Diameter of output lens: 150mm (optional)
- Pyrometer : 140°C~700°C
- PC I Card: Control moving speed and Laser Power output. Coupling with Pyrometer
- CCD Camera and display

### B. Robot:

6 axis loading max. 20kg, working groove up to 1.7M

### C. Fixture

D. Welding Beam width and moving speed is depend on the transmittance and absorption of the polymer material

# Vibration Welding M/C

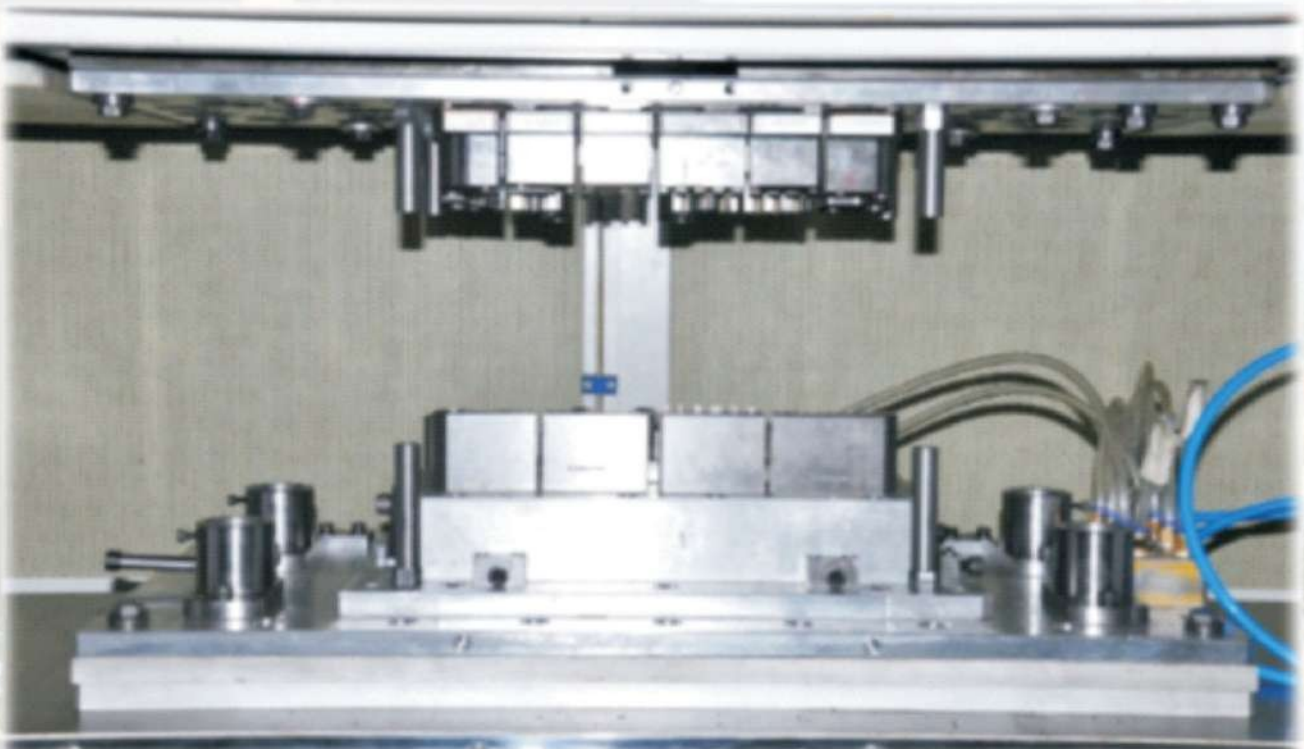
## What is the vibration welding?

Vibration welding uses frictional heat to join the interface of two thermoplastic parts under mechanical pressure, the upper clipper clips the thermoplastic to do a high frequency reciprocating according the setting amplitude, it will have frictional heat generated to fully melt the interface , then stop moving and continued to put pressure and cooled to weld two thermoplastic parts



### Features

- Low power consumption
- Quickly & easily set the working condition
- Easy fixture replacement
- Suitable for large parts and irregular shape parts welding
- No need any extra joint's material to help welding
- Can weld multiple small parts at one time
- Cleaning welding with any odor, no environmental issues
- Stronger welding ability



## ■ Specifications

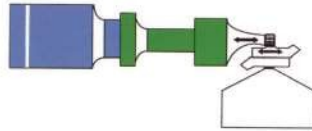
MODEL	HWV-M55LS	HWV-15LS	HWV-15HLS	HWV-30LS	HWV-30HLS
<b>TRANSDUCER</b>					
Upper Fixture Weight	≤12KG	≤30KG	≤40KG	≤60KG	≤70KG
Welding Area	50 cm <sup>2</sup>	160 cm <sup>2</sup>	200 cm <sup>2</sup>	280 cm <sup>2</sup>	450 cm <sup>2</sup>
Amplitude	1.8 mm	1.8 mm	1.8 mm	1.8 mm	1.8 mm
Frequency	210Hz~260Hz	200Hz~240Hz	200Hz~240Hz	200Hz~240Hz	200Hz~240Hz
<b>MECHANICAL SPECIFICATION</b>					
Machine Length (mm)	1174	2600	2600	2780	2780
Machine Width (mm)	965	1280	1280	1284	1284
Machine Height (mm)	2163	2100	2280	2390	2390
Safety Door Width (mm)	934	1443	1443	1621	1621
Safety Door Height (mm)	446	650	765	723	723
Upper Fixture Length (mm)	300	860	860	1140	1140
Upper Fixture Width (mm)	295	390	390	560	560
Lift Platform Length (mm)	792	1450	1450	1580	1580
Lift Platform Width (mm)	350	520	600	720	720
Lift Platform Stroke (mm)	300	300	500	500	500
Gap Between Lift Platform & Transducer (mm)	380	560	685	720	720
Max. Welding Pressure (n)	6000	12000	12000	12000	25000
Lift Platform Driving	PNEUMATIC SERVO	HYDRAULIC SERVO	HYDRAULIC SERVO	HYDRAULIC SERVO	HYDRAULIC SERVO
Machine Weight (ton)	1.2	2.5	3	3.5	4
Noise Range	≤85db	≤85db	≤85db	≤85db	≤85db
<b>ELECTRONIC CONTROL SYSTEM</b>					
Input Power	220V, 3P	220V, 3P	220V, 3P	220V, 3P	220V, 3P
Power Consumption	6 KVA	18 KVA	18 KVA	35 KVA	35 KVA
Output Power	5.5 KW	15 KW	15 KW	30 KW	30 KW
Resonance	AUTO	AUTO	AUTO	AUTO	AUTO
Welding Type	TIME/DEPTH	TIME/DEPTH	TIME/DEPTH	TIME/DEPTH	TIME/DEPTH
Welding Stage	6 STAGE	6 STAGE	6 STAGE	6 STAGE	6 STAGE
Welding Parameter Storage	80	80	80	80	80
Operation Language	ENGLISH	ENGLISH	ENGLISH	ENGLISH	ENGLISH
Machine Networking	N	N	N	N	OPTION
Data Transmission	FROFIBUS-DP	FROFIBUS-DP	FROFIBUS-DP	FROFIBUS-DP	FROFIBUS-DP

※Specifications Are Subject To Change For Product Improvement Without Notice.

## Ultrasonic Metal Welding Machine

The KWG ultrasonic metal welding machine is designed for metal welding applications including wire termination, wire hardness, metal foil welding, solid copper wires, copper terminals, terminate ribbon cable, battery connections, etc..... For different application needs, special sonotrodes and fixtures will be designed in order to obtain the clean, fast and efficient welding performance.

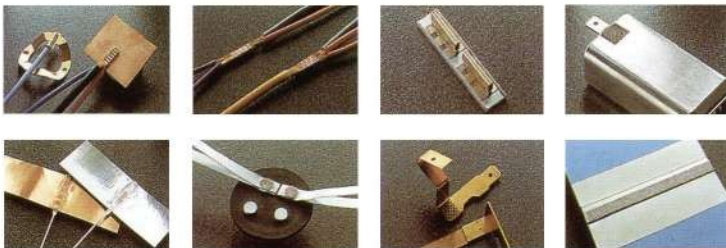
### Multiple Applications:



Sonotrodes adapted for different types of weld



**Model: KWG 2220**  
Output: 2200W  
Frequency: 20 KHz  
Line Source: 220V, 1P, 10A



**Model: KWG 0935**  
Output: 900W  
Frequency: 35 KHz  
Line Source: 220V, 1P, 10A



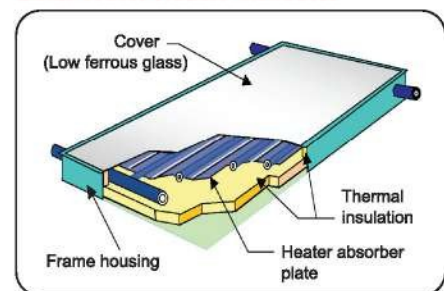
## Metal Seam Welder for Solar Water Heater Absorber

The Continuous Seam Welding system of this machine provides a continuous-feed welding process to weld the metal tube and absorber plate together in a fast and efficient way.



**Model: KMU-1007**

### Solar Water Heater Collector



### ◆ Specifications:

Model	<b>KMU-1007</b>
Output	2000 W
Frequency	20 KHz Auto Tuning
Line Source	220V 1P 20A
Control System	PLC, interface touch screen panel
Overload Protect	Overload protect & alarm buzzer
Air Cylinder	80 φ
Working Speed	Max. 2 meters/min.
Working Length	2 meters
Copper Absorber Width	110 mm
Machine Dimension	3000×910×1430 mm L×W×H
Machine Weight	800 kg



## iSW30/iSW50 ULTRASONIC METAL SPOT WELDING MACHINE



### Features:

- Sixth generation iQS operating system, multi-level password protection and hierarchical authorization
- Proportional valve technology and high performance digital generator for high precision.
- UTC embedded stacked series of high-end processors to achieve high-speed and extreme control
- Multiple welding modes, digital amplitude setting, amplitude and distance segmental control.
- Use graphic analysis for quality monitoring, support four brands of scanners.
- Support MES, DPS system and self-developed DataLog with 5G application.

### Specifications:

Model	i-SW30	i-SW50
Power	1000-2400W	3000-6000W
Frequency	35KHz, 40KHz	20KHz
Voltage	AC220V	AC220V-380V
Welding Stroke	30mm	50mm
Operating Device	7" color touch screen	



### Application:

- Super capacitor
- Twisted braided wire
- Copper/Aluminum welding
- Standard wires are soldered to standardized contacts
- Battery connection contacts
- Copper aluminum welding
- Multi-strand splicing
- Electrode welding of positive & negative poles
- Cable connections for high current applications
- Battery connector

## iBW20/iBW30 ULTRASONIC METAL WIRE WELDER MACHINE



### Features:

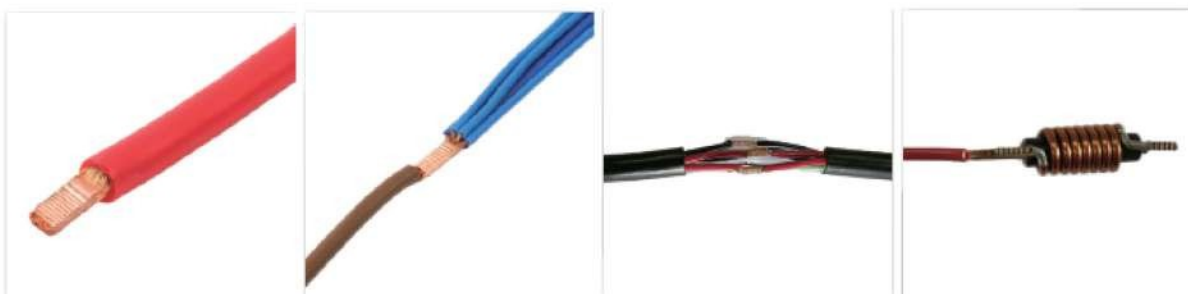
- The sixth generation iQS operating system, multi-level password protection and hierarchical authorization
- UTC embedded stacked series of high-end processors to achieve high-speed and extreme control
- Quality monitoring using graphic analysis.
- Support four brands of scanners.

### Specifications:

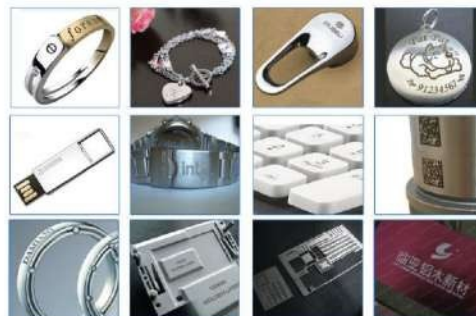
Model	i-BW20	i-BW30
Power	3kW-4kW	2.4kW-6kW
Frequency	20kHz	
Voltage	AC220V-380V	
Motion System	Pneumatic	
Operating Device	7" color touch screen	

### Application:

- Copper strand terminal node
- Stranded hybrid connection
- Multi-strand wire splicing
- Aluminum stranded wire
- Ultimate Compression High Flex Cable
- Copper and Aluminum Stranded Wire - Access Node
- Stranded braided wire
- Final compression of the paint line
- Cable connections for high current applications
- Compressed Copper Braid



## OPTICAL FIBER LASER MARKING MACHINE K-IP-W20, K-IP-W30, K-IP-W50



### Features:

- Excellent laser beam quality with laser beam spot diameter less than 20nm suitable for precision & meticulous marking.
- Lower consume & cost - whole machine power consumption less than 500w.
- Maintenance free operation - does not require any maintenance for laser or cleaning of lens.
- > 100000 hours of life span time.
- Small structure & suitable for harsh environments.
- High working speed up to 12000mm/s.

### Application & Material

Optical fiber laser marking machine suit for all metal and some plastic, stainless steel, brass, hard alloy, electroplating products, ABS, epoxy resin, painted coated products, ceramics, etc. Such as: logo printing ,QR code ,series number,production date,bar code.....

### Application Industrial

Suitable for integrated circuit chips, computer accessories, industrial bearings, watches and clocks, electronics and communications products, aerospace devices, various automobile parts, home appliances, hardware tools, molds, wire and cable, food packaging, jewelry, cigarettes and tobacco, military and other industries.

### Specifications:

Model	K-IP-W20	K-IP-W30	K-IP-W50
Max Laser power	20W	30W	50W
Laser type	Fiber laser		
Beam quality M2	1.6-1.8		
Laser wavelength	1064nm		
Working area	30*30~200*200mm	30*30~300*300mm	30*30~300*300mm
Marking Depth	1mm		
Working distance	80mm-100mmP		
Mini. line width	0.006mm		
Min. character size	0.09mm		
Repeat frequency	20KHz-80KHz		
Engraving speed	≤10000mm/s		
Repeat accuracy	0.002mm		
Life-span of Fiber Laser	80 000-120 000 hours		
Focus Spot Diameter	<0.01mm		
Temperature of Operation	0°C~40°C		
Integrity power	≤ 0.8KW		
Graphic Format supported	AI /DST / PLT / JPC / SVG / NC.G / BOT		
Cooling method	Air cooling		
Power supply	AC220V+-15%/50Hz/15A		
Place of origin	Shenzhen China (Mainland)		
Guarantee	1 year		

## CO2 LASER MARKING MACHINE K-CO2-W20, K-CO2-W30, K-CO2-W50



### Features:

- Excellent quality with high reliability, long continuous running, clear and complete marking result.
- Professional software
- Requires no consumables and minimal maintenance.
- > 100000 hours of life span time.
- No influence of the severe environment & temperature change.

### Suitable materials:

Non-metal materials as apparel, leather, rubber, wooden board, bamboo, organic glass, ceramic tile, plastics, marble, jade, crystal, cloth, etc.



### Applications:

Widely used in craft gifts, furniture, leather clothing, advertising signs, mold manufacturing, food packaging, pharmaceutical packaging, electronic components, printing, nameplate production and other industries



### Specifications:

Model	K-CO2-W20	K-CO2-W30	K-CO2-W50
Max Laser power	20W	30W	50W
Laser type	CO2 laser source		
Beam quality M2	1.6-1.8		
Laser wavelength	1064nm		
Working area	30*30~300*300mm		
Marking Depth	1mm		
Working distance	80mm-100mm		
Mini. line width	0.006mm		
Min. character size	0.09mm		
Repeat frequency	20KHz-80KHz		
Engraving speed	≤9000mm/s		
Repeat accuracy	0.002mm		
Life-span of Fiber Laser	80 000-120 000 hours		
Focus Spot Diameter	<0.01mm		
Temperature of Operation	0°C-40°C		
Integrity power	≤ 0.8KW		
Graphic Format supported	AI /DST / PLT / JPC / SVG / NC.G / BOT		
Cooling method	Air cooling		
Power supply	AC220V±15%/50Hz/15A		
Place of origin	Shenzhen China (Mainland)		
Guarantee	1 year		

## UV LASER MARKING MACHINE K-UV-W3, K-UV-W5



### Feature:

- High processing accuracy in visible light & infrared band lasers.
- Precise laser marking with small spot size.
- Marking material not susceptible to heat deformation as material heat receiving area smaller.

### Suitable materials:

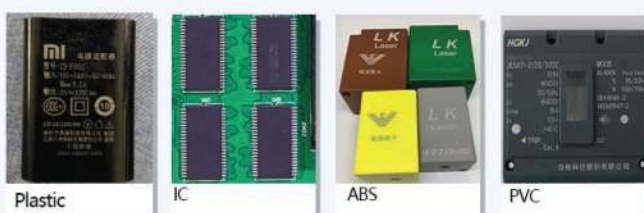
Metal ,plastic,glasses marking ,stainless steel, hard alloy, lens, bottles ,ABS, epoxy resin, painted coated products, ceramics, etc. Such as: logo printing, QR cod, series number, production date, bar code.....

### Applications:

Integrated circuit chips, computer accessories, industrial bearings, watches and clocks, electronics and communications products, aerospace devices, various automobile parts, home appliances, hardware tools, molds, wire and cable, food packaging, jewelry, cigarettes and tobacco, military and other industries.

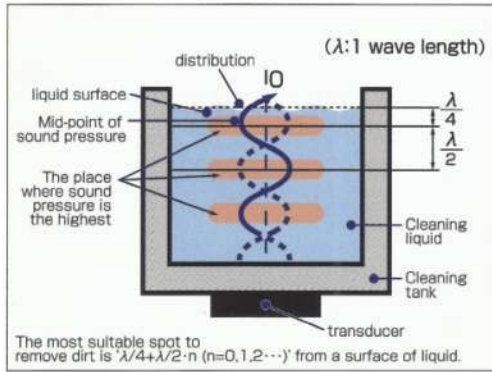
Model	K-UV-W3	K-UV-W5
Max Laser power	3W	5W
Laser type	UV laser	
Beam quality M2	≤1.2	
Laser wavelength	355nm	
Working area	100*100mm/150*150mm	
Pulse width	15ns@40HZ	
Working distance	80mm-100mmP	
Mini. line width	0.006mm	
Min. character size	0.09mm	
Repeat frequency	25KHz-100KHz	
Engraving speed	≤7000mm/s	
Repeat accuracy	+0.002mm	
Life-span of Fiber Laser	80 000-120 000 hours	
Focus Spot Diameter	15um	
Temperature of Operation	0°C~40°C	
Integrity power	≤ 800W	
Graphic Format supported	AI /DST / PLT / JPC / SVG / NC.G / BOT	
Cooling method	Water cooling	
Power supply	AC220V+-15%/50Hz/15A	
Place of origin	Shenzhen China (Mainland)	
Guarantee	1 year	

### Marking Sample



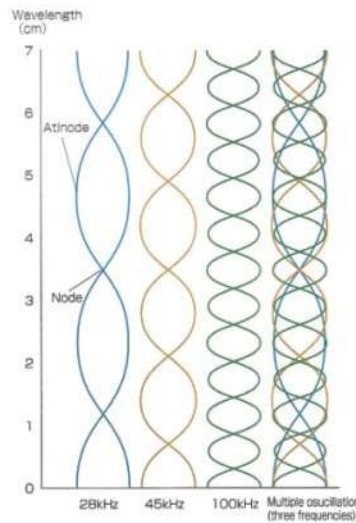
**CUSTOM MADE LASER MARKING MACHINE**





1 wave length=acoustic velocity/frequency  
 $(\lambda=c/f \quad \lambda:\text{wave length(m)} \quad c:\text{Acoustic velocity of washing liquid(m/s)} \quad f:\text{frequency(Hz)})$   
 $\because c \dots 1500\text{m/s (In the case of water)}$   
 In the case of 40kHz  
 $1500000(\text{mm/s})/40000(\text{Hz})=37.5(\text{mm}) \dots 1 \text{ wave length}$   
 Constant wave:  $37.5/2=18.75$  (approx. 19mm)

Schematic of 3-frequency vibration  
 Ultrasonic energy is higher at an antinode and lower at a node (standing wave)



### Frequency selection

Frequency	Dirt to be cleaned
28KHz	Big observable dirt or oil
40 KHz	Particle 10um & up
100 KHz	5um~10um
200 KHz	1um~10um
400 KHz	0.2um~5um
1MHz	0.2um~1um
3MHz	0.2um & under

## ■ Benchtop Ultrasonic Cleaner



### TU100 Series (Digital timer)

Model	TU105	TU110	TU115	TU120	TU130	TU140	TU160
Output Power	50W	100W	150W	200W	300W	400W	600W
Tank Size(mm)	150*135*100(2L)	295*145*100(4.2L)	295*145*150(6.4L)	298*237*150(10L)	298*237*150(10L)	500*290*200(29L)	500*290*200(29L)
Overall Size(mm)	175*160*210	320*175*240	320*175*290	327*267*295	327*267*295	530*325*345	530*325*345
Basket Size(mm)	120*120*35	265*125*50	265*120*80	265*210*80	265*210*80	480*275*80	480*275*130
Frequency	35KHz(T) - 40KHz(D) - 53KHz(F) - 80KHz(H) - 120KHz(K)						
Voltage	110VAC(A) / 220VAC(B)						
Timer	1~30 Min.						
Heater	No						
Max liquid temp.	80°C						
Accessories	Lid & Basket						

### TU200 Series (Digital timer + Heater)

Model	TU220	TU230	TU240	TU260
Output Power	200W	300W	400W	600W
Tank Size(mm)	298*237*150(10L)	298*237*150(10L)	500*290*200(29L)	500*290*200(29L)
Overall Size(mm)	327*267*295	327*267*295	530*325*345	530*325*345
Basket Size(mm)	265*210*80	265*210*80	480*275*80	480*275*130
Heater	360W(20~60°C)		720W(20~60°C)	
Frequency	35KHz(T) - 40KHz(D) - 53KHz(F) - 80KHz(H) - 120KHz(K)			
Voltage	110VAC(A) / 220VAC(B)			
Timer	1~30Min. or 1~12Hr.			
Max liquid temp.	80°C			
Accessories	Lid & Basket			

Ordering instruction: TU220/40KHz/220VAC → Product code: TU220DB

Your desired cleaning job comes to our service.



■ SU302 & DU302 Integrated Cleaners

- Ultrasonic generator, transducers, and cleaning tank in one compact unit
- Industry power in a small footprint
- Various frequencies (28KHz~200KHz) available for different applications
- Dual frequency(DU302) offers superior cleaning
- Custom tanks of any size can be constructed for particular cleaning requirements

SU302 Series (Single Frequency)

Model	SU302S					SU302L				
Frequency	28KHz(B)	40KHz(D)	80KHz(H)	120KHz(K)	200KHz(N)	28KHz(B)	40KHz(D)	80KHz(H)	120KHz(K)	200KHz(N)
Output Power	300W(A)/600W(B)				400W(C)	300W(A)/600W(B)				400W(C)
Tank Size(mm)	SUS304 350*350*200mm(24L)					SUS304 500*300*200mm(30L)				
Overall Size(mm)	SUS304 515*394*400mm					SUS304 564*344*400mm				
Voltage	220VAC					220VAC				
Timer	1~99Sec. or 1~99Min. or Continuous operation					1~99Sec. or 1~99Min. or Continuous operation				
Heater	1500W(30~70℃)					1500W(30~70℃)				
Max liquid temp.	80℃					80℃				
Accessories	Lid & Basket					Lid & Basket				

DU302 Series (Daul Frequency)

Model	DU302S			DU302L		
Frequency	40/80KHz(E)	28/80KHz(U)	25/45KHz(Q)	40/80KHz(E)	28/80KHz(U)	25/45KHz(Q)
Output Power	300W(A)/600W(B)			300W(A)/600W(B)		
Tank Size(mm)	SUS304 350*350*200mm(24L)			SUS304 500*300*200mm(30L)		
Overall Size(mm)	SUS304 515*394*400mm			SUS304 564*344*400mm		
Voltage	220VAC			220VAC		
Timer	1~99Sec. or 1~99Min. or Continuous operation			1~99Sec. or 1~99Min. or Continuous operation		
Heater	1500W(30~70℃)			1500W(30~70℃)		
Max liquid temp.	80℃			80℃		
Accessories	Lid & Basket			Lid & Basket		

Ordering instruction:DU302L/40/80KHz/600W→Product code:DU302LEB

■ Applications of Cleaning



## Water Sound Ultrasonic Generators & Transducers offer a full range of features to meet any precision cleaning requirements.

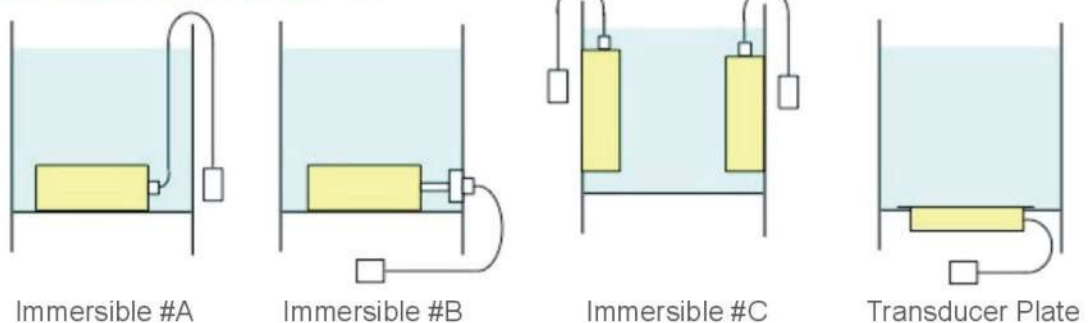
### ■ Ultrasonic Generator & Transducer



### ■ Ultrasonic Generator

Model	SU101	SU102	SU202	SU301	SU302	DU302
Frequency	28KHz(B) · 40KHz(D) · 80KHz(H) · 120KHz(K) · 200KHz(N)					40/80KHz(E) · 28/80KHz(U) · 25/45KHz(Q)
Output Power	300W~2400W					300W~1200W
Voltage	AC220V/380V50/60Hz					AC220V/380V50/60Hz
Transducer	SUS304 · SUS316 · Titanium(Ti) · PVDF					SUS304 · SUS316 · Titanium(Ti) · PVDF

### ■ Transducer installation



### ■ Ultrasonic Tank



- Stainless steel tank with transducers bonded to the tank bottom
- Various frequencies (28KHz~200KHz) available for different applications
- Dual frequency offers superior cleaning
- Tanks available with or without integral heaters
- Custom tanks of any size can be constructed for particular cleaning requirements

Model	TK-1	TK-2	TK-3	TK-4	TK-5	TK-6	TK-7	TK-8	TK-9
Frequency	28KHz(B) · 40KHz(D) · 80KHz(H) · 120KHz(K) · 200KHz(N) · 40/80KHz(E) · 28/80KHz(U) · 25/45KHz(Q)								
Output Power	300W	300W	600W	600W	900W	1200W	1200W	1200W	1800W
Tank (mm)	341*191*250	391*241*250	441*291*280	491*341*280	406*305*460	541*391*350	500*355*500	741*441*350	500*460*550
Capacity	16L	23L	35L	46L	56L	74L	88L	114L	126L
Heater	1500W	1500W	1500W	1500W	3000W	3000W	3000W	4500W	4500W

**Water Sound** provides automated cleaning systems for a wide range of industrial precision cleaning applications including microelectronics, automobile and precision optics to name a few. Custom designed to meet your exact cleaning requirements.

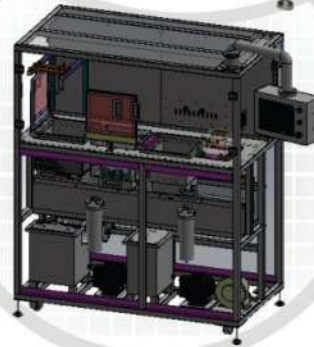


■ Dual Tank Ultrasonic Cleaner with PP Enclosure (Chemical Resistant)



■ Single Tank Ultrasonic Cleaner

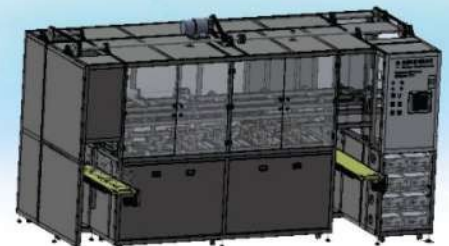
■ Triple Tank Ultrasonic Cleaner



## ➡ Automatic Multi-Tank Ultrasonic Cleaner



• DU302 generator •

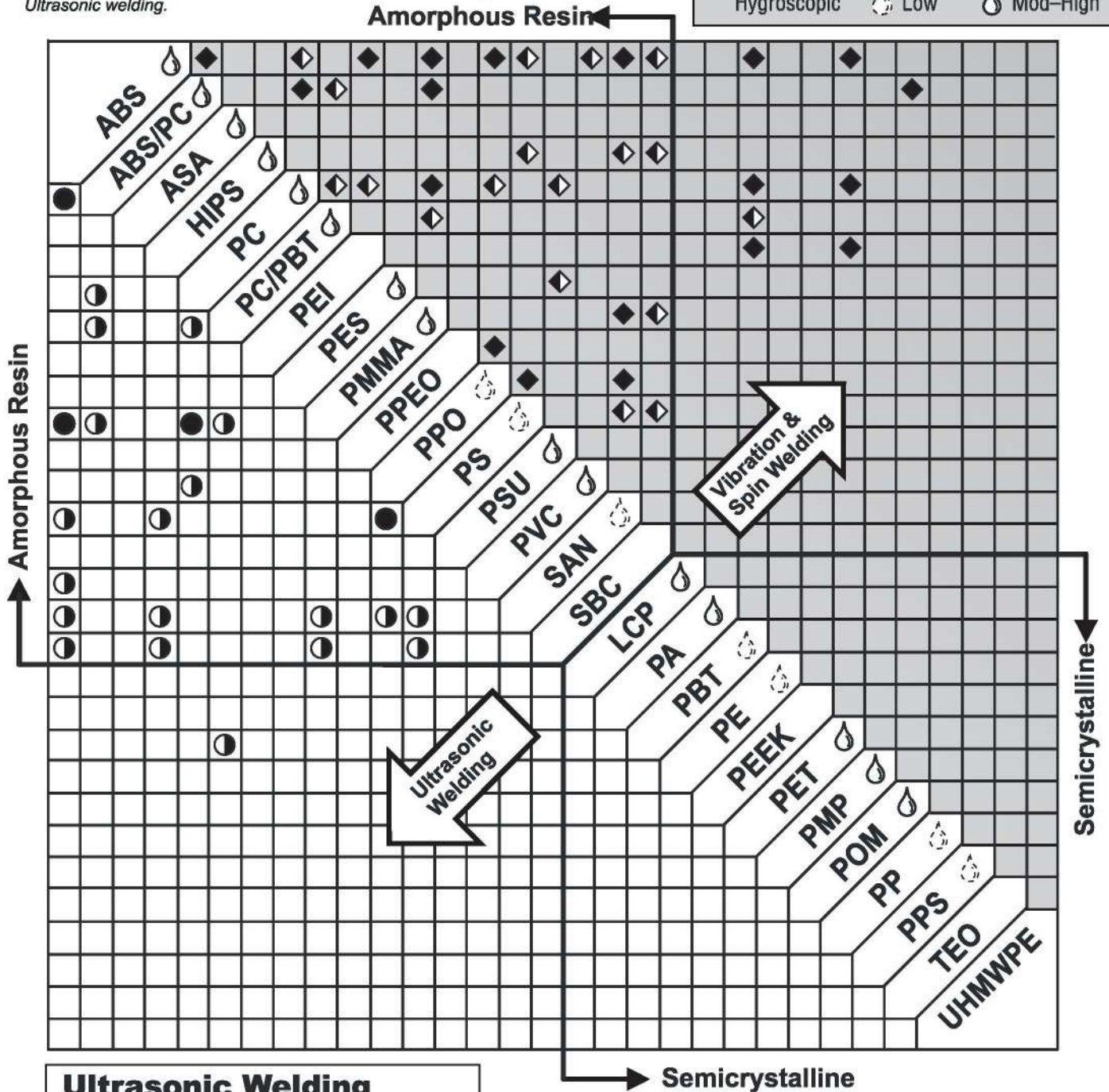


## Thermoplastic Compatibility Guide



For Ultrasonic Welding use the lower left side. For Vibration and Spin Welding use the upper right portion. Then select the two materials and find their intersection. For example: Spin Welding ABS to PEI – Move to the right from the ABS label and up from the PEI label to determine these materials have good compatibility (◆ symbol). Moving to the left from PEI and down from ABS we find this pair is not compatible for Ultrasonic welding.

### Vibration & Spin Welding

- ◆ Good Compatibility
- ◊ Compatibility Based Upon Material Composition
- Hygroscopic  Low  Mod-High



### Ultrasonic Welding

- Good Compatibility
- ◐ Compatibility Based Upon Material Composition
- Hygroscopic  Low  Mod-High

For Ultrasonic Welding use the lower left half. For Vibration and Spin Welding use the upper right portion. Then select the two materials and find their intersection. For example: Spin Welding ABS to PEI – Move to the right from the ABS label and up from the PEI label to determine these materials have good compatibility (◆ symbol). Moving to the left from PEI and down from ABS we find this pair is not compatible for Ultrasonic welding (blank intersection).

Actual compatibility is based on individual application requirements, material, part evaluation and testing.



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