



Ultrasonic metal welding is a solid-state welding process that combines metals using high-frequency ultrasonic vibrations. Ultrasonic metal welding works on the principle of frictional heat generation due to high-frequency mechanical vibrations. When ultrasonic vibrations are applied to the interface of two metal surfaces under pressure, the frictional heat melts the material at the interface, creating a strong metallurgical bond.

SPECIFICATION

Frequency (kHz)	20
Power (Watt)	3000
Horn	Design as per the customized application
Actual Weight	Approx. 96 kg
Actual Size (L X W X H)	Approx. (605 x 556 x 1316) mm
Packaging Type and Size	Wooden Box and Approx. Size (752 x 703 x 1463) mm

Operational Requirement

Input Power Supply	AC 230V 50/60Hz, 16Amp
CVT / Stabilizers	If the voltage is unstable then use CVT / Stabilizer to avoid damage
Working Pressure	2 to 10 bars (Air Compressor required 1 Hp 50Ltr)

FEATURES

- ⊙ Direct joining of materials with dissimilar properties.
- ⊙ Very short welding times (fractions of seconds)
- ⊙ Low heat generation in the welding joint.
- ⊙ Strength in the joints close to the base materials.
- ⊙ No additional joining material is required.
- ⊙ Low thermal and electrical transfer resistance.

ADVANTAGES

- ⊙ Fast and efficient.
- ⊙ Strong welds
- ⊙ Clean and environmentally friendly
- ⊙ No defects due to gases, arc and filter metal.
- ⊙ Welding time is minimal.
- ⊙ Very short process times.

- ⦿ Surface deformation is less and no waste material is generated.
- ⦿ Very thin materials can be welded and the weld is localized.

- ⦿ Little or no thermal damage to the component due to cold welding tools.
- ⦿ Low energy requirement for welding and thus high efficiency.

APPLICATION

- ◆ Battery Collage
- ◆ Battery
- ◆ Capacitors
- ◆ Circuit Board
- ◆ Field Coil
- ◆ Junction Of Wire Harness
- ◆ Metal Parts
- ◆ Metal Welding
- ◆ Wiring Harness



Metal Welding



Metal Welding



Battery Collage



Metal Parts



Metal Welding



Wiring Harness



Metal Welding



Metal Welding



Battery



Capacitors



Circuit Board



Field Coil



Junction Of Wire Harness



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