

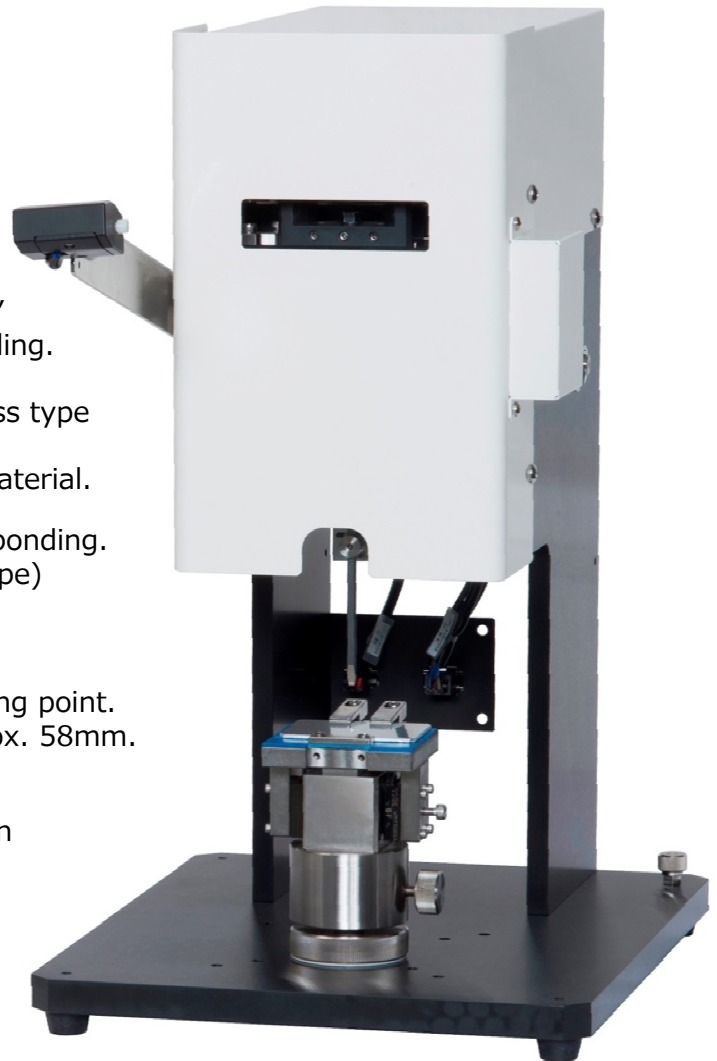
JAPAN MADE

MINI METAL BONDER

Metal-80

CHARACTERISTICS

- It is equipped with wire bonder REBO series' transducer system and capable of spot bonding.
- Capable of lower bonding force than air-press type metal bonder (compared to our products).
※Bonding capability depends on size and material.
- Able to monitor 4 types of waveform while bonding.
※Measuring instruments (such as oscilloscope) is necessary for monitoring.
- Applied changeable tool as bonding horn.
It enables access to workpiece's deep bonding point.
※The distance from horn to tool tip is approx. 58mm.
Z-axis stroke is approximately 20mm.
- It can be installed into automated production system with PLC external controller.

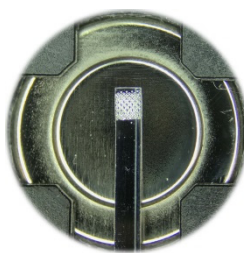


APPLICATION EXAMPLE

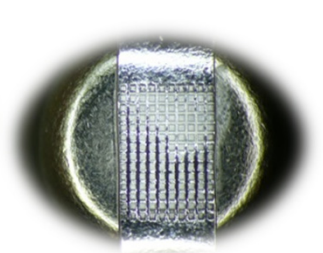
- Secondary, EV battery module



- Battery tip + Al ribbon bonding
※Used ribbon with W: 2mm, t: 0.2mm.

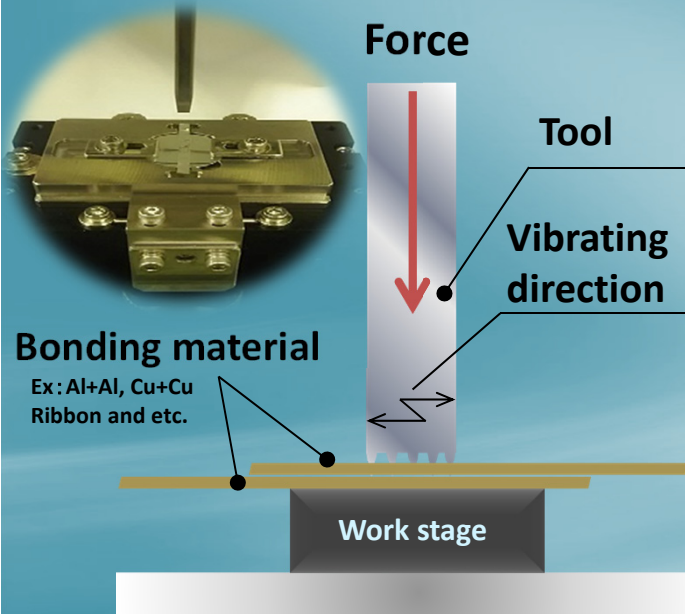


Used knurled tip tool.



ULTRASONIC ENGINEERING CO., LTD

Model of tool tip bonding

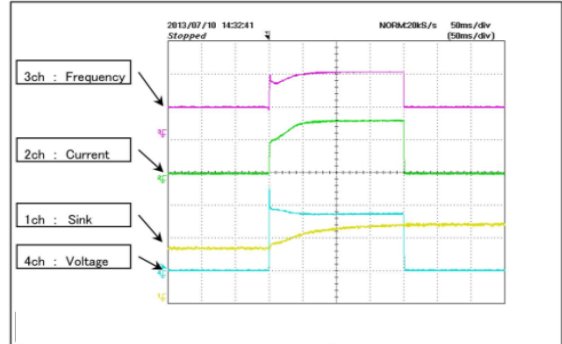


※Tip of the tool is designed to match workpiece.

Waveform monitor example

Front generator BNC connector output

- 1ch : Sink : 沈み込み
- 2ch : Current : 振動子電流
- 3ch : Frequency : 周波数相対変位
- 4ch : Voltage : 振動子電圧



※Oscilloscope is not attached.

Specification

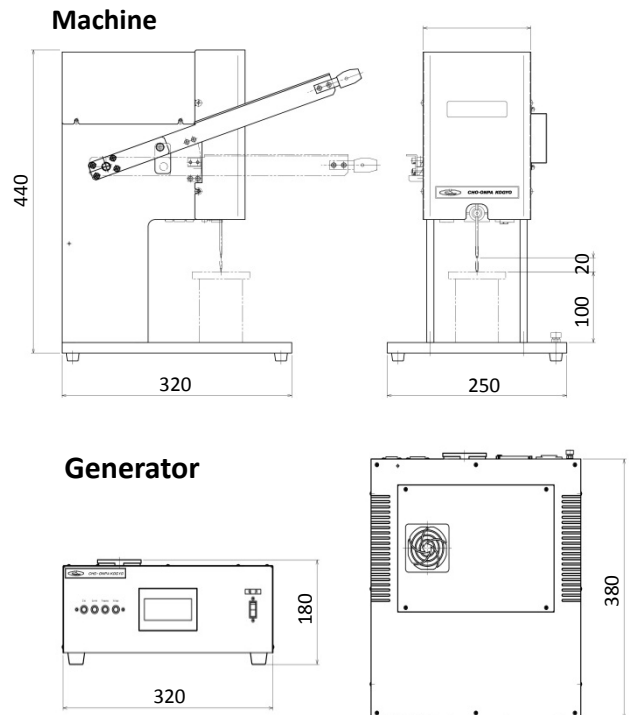
Model	Metal - 80(Desk top type)
Frequency	80kHz
Power	94W
OSC control	Manual oscillation, external input from PLC.
Force method	Compressed spring
Force range	10~60N(Able to change force) ※Able to monitor force with load cell. (Monitor is not attached.)
External output	Attached with connector for monitor ・Transducer current waveform ・Frequency relative offset waveform ・Transducer voltage waveform ・Sink waveform ※Oscilloscope is not attached.
Dimension (W,D,H)	Machine : 250×320×440mm (Exclude protruding object such as lever) Generator : 320×380×180mm (Exclude protruding object such as switch.)
Mass weight (kg)	Machine: 19kg Generator: 12kg
Power source	AC100V 50/60Hz 300VA



Caution: Please read user's manual carefully before using.

The specification and outer dimensions are subject to change without prior notice for improvement.

External Diagram



<http://www.cho-onpa.co.jp/> Latest information available

Sonics 超音波工業株式会社
ULTRASONIC ENGINEERING CO., LTD.

Head office and Factory

1-6-1, Kashiwa-cho, Tachikawa city, Tokyo, Japan, 190-8522

Tel: +81-42-537-1711 / Fax: +81-42-536-8485