SoundBonding application

ECB

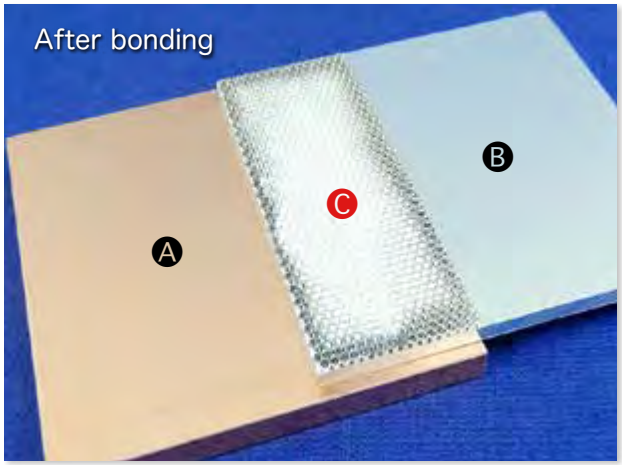
〈Big & Large plates of Aluminum and Copper SoundBonding〉

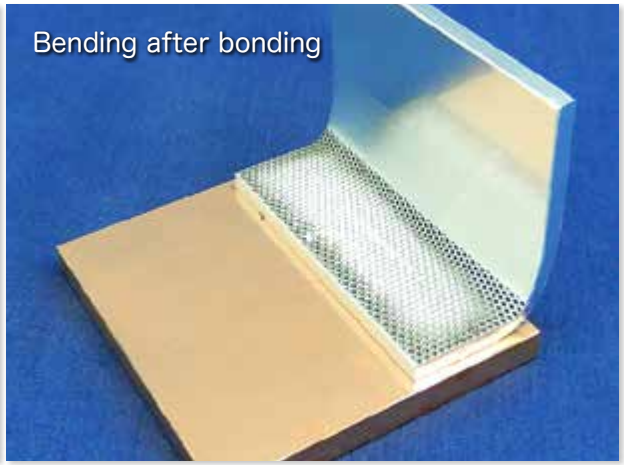
With 10000 watt, bonded area over 1000㎟ is max. so far

DSS+DPS

WPower System

[Double Power system]
Connected probes to edges of the stack on Dual Support system/DSS
Power up to 【10000 watt of 2 times】
Revolution will break out in the world of bonding (Patent)





Ⓐ Copper (□ 55x50mm/t=5mm)　Ⓑ Aluminum (□ 51mm/t=3mm)
Ⓒ Bonding area (□ 51x 20mm)

Tensile test
Tensile strength : 14.6kN
(≒ 1.46ton-peeled)

Interface resistance : 0.567μΩ
(Measured by Hitachi R&D)

★ Beautiful bonding between different kinds of metals
★ No need of inclusion. Only sound energy is needed
★ Bonding at room temperature in atmosphere
★ Alloy bonding
★ Bonding time about 3~5 seconds
★ No oxidation and damages of samples
★ Almost no heat generation of SoundPower tools and anvils

SoundPower® Laboratory

ULTEX®