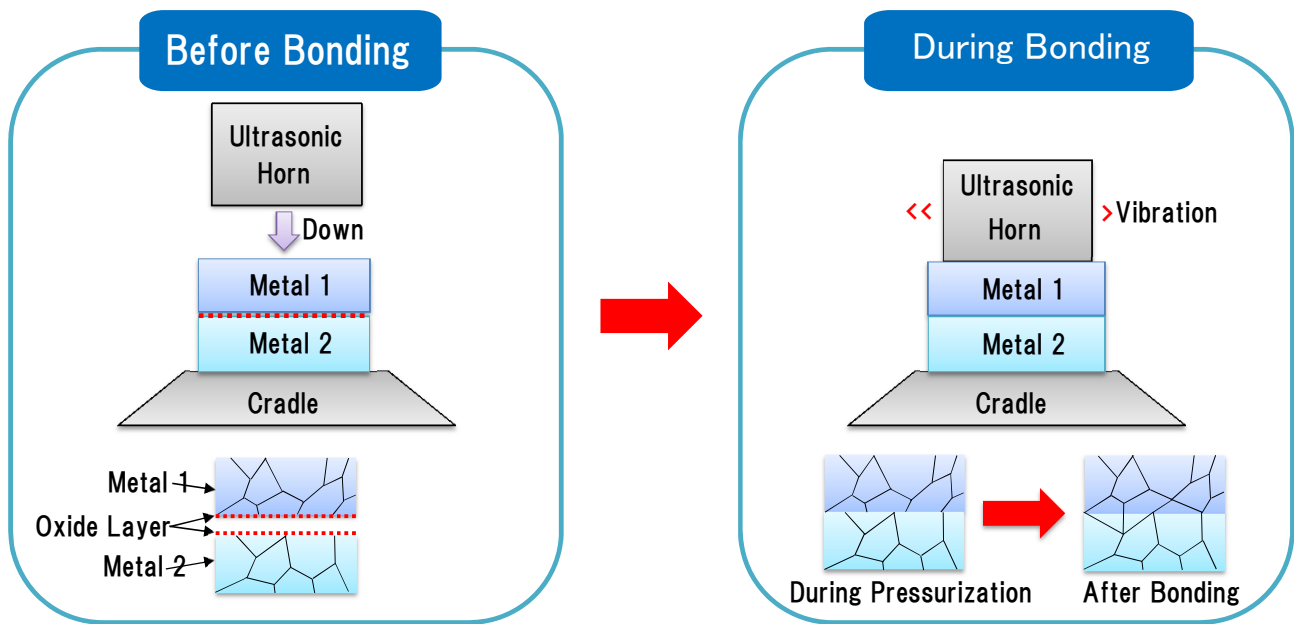


Metal Ultrasonic Bonding Technology

◇ The Principle of Metal Ultrasonic Bonding

- ① Adding ultrasonic vibration to metals
- ↓
- ② Removing impurities such as oxide layer and others
- ↓
- ③ Metals are bonded by the gravitation between metal atoms



◇ Features

- ① Can bond metals quickly without using flux nor heat.
- ② Less contamination by foreign particles and very small thermal impact during the process, and minimum contact resistance after bonding.
- ③ Less consumable supplies (solder, welding rod, etc.)
- ④ Less dependency on the skill level of workers compared to soldering.

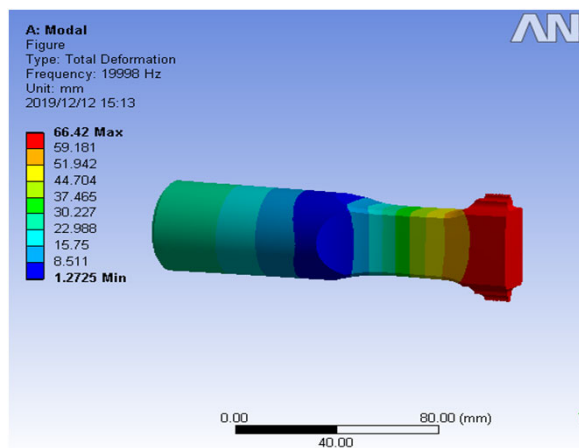
◇ Examples of Application



Automated Wiring Equipment Utilizing Metal Ultrasonic Bonding

◇ Specifications

Power	3000W
Frequency	19000-20500Hz
Energy	0~10000J
Duration	0~9.99s
Vibration Amplitude	0~100%
Search Step for Frequency	1~100Hz
Frequency Adjustment	0~50Ms
Cooling Time	0~99.99s
Operational Temperature	-10~40℃
Voltage	AC210~230V
Current	1~10.0A
Atmospheric Pressure	0.2~0.4Mpa
Ultrasonic Stroke	30mm



Ultrasonic Horn



Metal Ultrasonic Bonding Machine

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