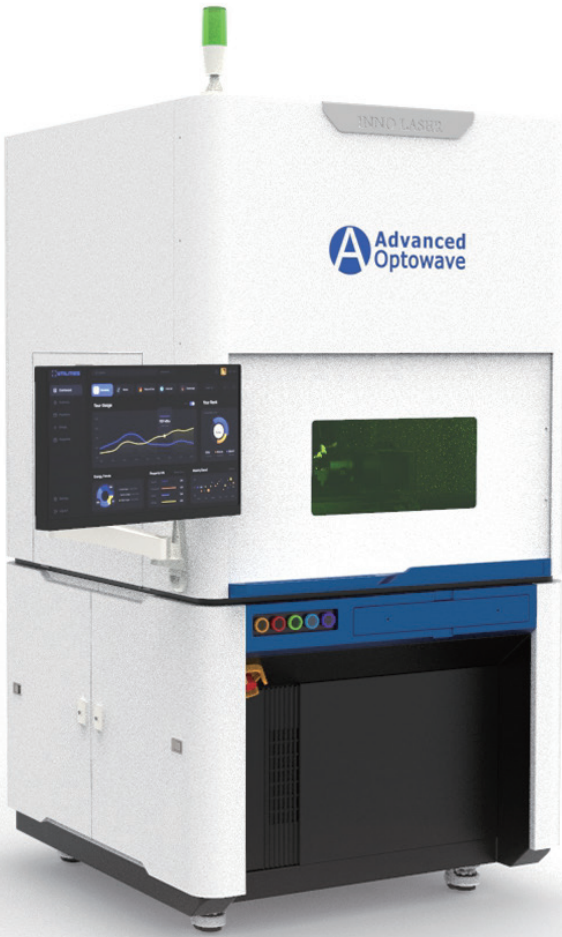
AOWelder Series

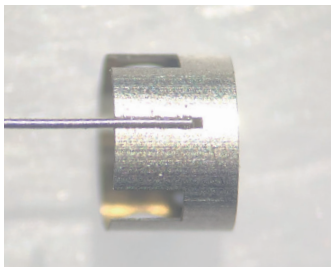
Medical Device Micro-welding system



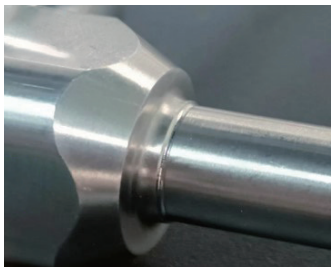
System Advantages ▶

- Optional weld spot size
- Open workspace compatible with multi-axis configuration
- Visual imaging observation
- Optional pulse or continuous dual mode
- Customized clamping and auxiliary fixtures
- Specialized integrated programing software

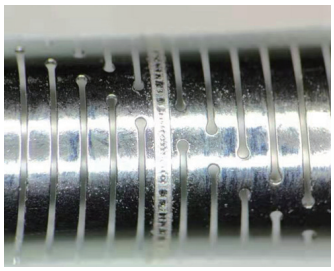
Application cases



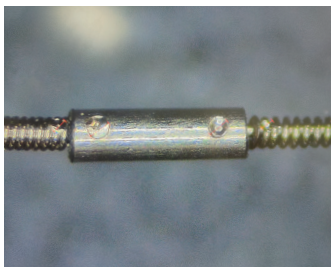
Welding of metal rings and wire materials



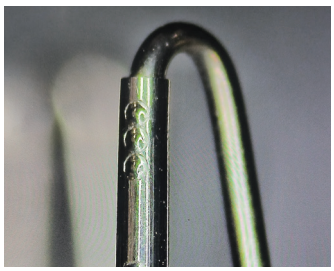
Welding of metal sealing rings



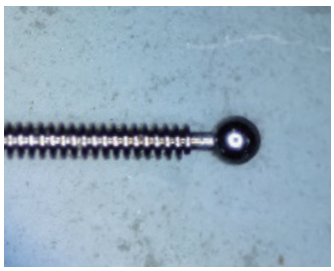
Circumferential welding of nickeltitanium tubes



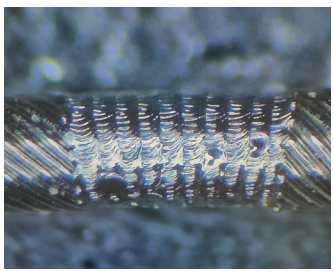
Welding of end faces of nicle-titanium spring wires



Welding of metal wires through sleeves

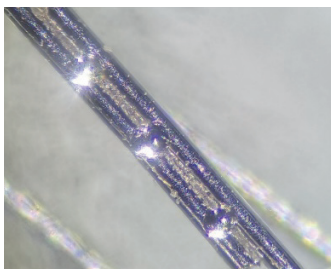


Melting of end balls on nickel-titanium wires



Circumferential welding of metal push rods

Sidewall welding of cobalt-chromium alloy



Parallel welding of nickel-titanium wires

AOFemto 2000

System Parameters ↘

Wavelength	1070±5nm
Mode	Continuous/Pulse
Frequency	1Hz~5000Hz
Average power	150w
Pulse width	0.05ms~50ms
Fiber core	14μm~200μm
Processing area	80mm×80mm~150mm×150mm
Processable materials	Stainless steel、Nickel-titanium alloy、Platinum-iridium alloy, etc.
CCD positioning accuracy	±15um
XY axes Repeatability accuracy	±0.002mm
Z-axis positioning accuracy	±0.005mm
Rotary axis	Maximum rotation speed: 200rpm；Jitter：20um
Software	Self-developed dedicated welding software
Air pressure	0.5MPa~0.7MPa
Power supply	220V single-phase/50Hz
Cooling method	Air-cooled
Maximum outer dimensions	1200mm × 1700mm × 2100mm
Stage weight	750KG
Ambient temperature	23℃±2℃
Ambient humidity	<70% RH without condensation