

LW-F300

NEW

Fiber Laser Welder



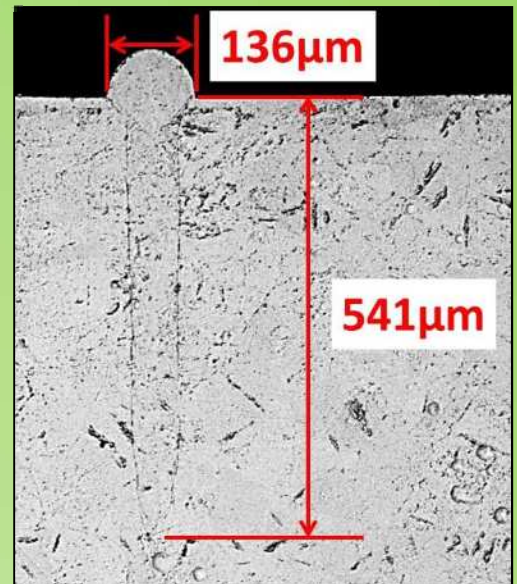
**300W, Air-cooled,
High-speed Digital Feedback Control of Optical Power
Welds Thin Copper/Aluminum Plates
and Microscopic Components!**

Micro Focusing

**Single Mode
Fiber Laser**

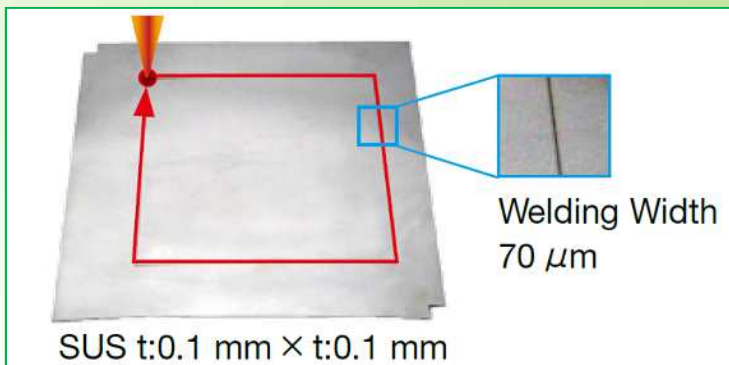
Melt-in Thin & Deep

- **300W High-quality Single-mode Laser**
Stable, high-brightness, high-quality beam
- **Air-cooled, Space-saving Desktop Design**
Water-cooling device is not required
- **Stable Welding Even during Ambient Temperature Changes & Immediately after Start-up**
Digital, high-speed (control period 2μs) optical power feedback control guarantees steady output
- **Normal Incidence to the Work is Possible**
Generator is resistant to reflected light
- **Supports Seam Welding and High-speed Welding**
Continuous, high-speed irradiation of arbitrary laser waveforms
- **Low Power Consumption Saves Energy**
Long life, single emitter laser diode is used in low power consumption laser oscillator design



Melting Example (Stainless Plate)

Application Example



Weld 0.1 mm Thick Stainless Foils

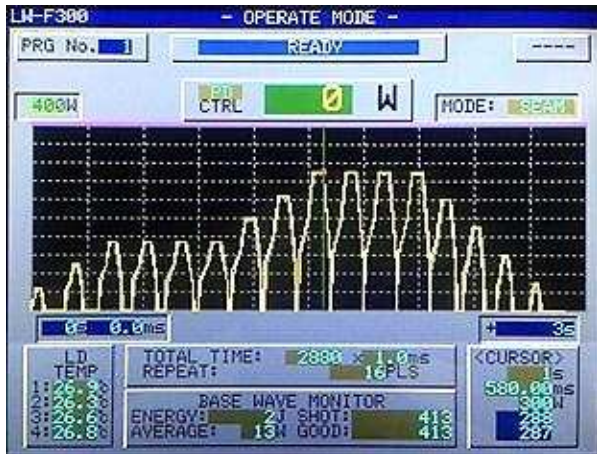


NIPPON AVIONICS CO.,LTD.

LW-F300 Fiber Laser Welder

Various Laser Output Waveform Controls

- Minimum 0.1msec step setting
- Equipped with seam welding mode
- High speed repetitive output with maximum 5,000Hz frequency
- Color graphic display of preset and output values



Option

Output Head with Camera

- Compact and lightweight design
- Combined with the observation system unit, a welding positioning can be easily done
- Allows customizing welding as required by a variety of applications



CAUTION

BEFORE OPERATION, read the Operation Manual carefully. This unit should be located away from water, moisture, steam, dust and soot to prevent fire, electrical shock, and operational problems.

*The appearance and specifications are subject to change without notice.

Feature	LW-F300 Specification
Wavelength	1,070 nm
Max Rated Power	300 W (Class 4)
Max Frequency	5,000 Hz
Output Mode	Arbitrary waveform (Single, Repeat, Seam), CW, Analog control
Monitor Display	Laser output(W), Laser energy(J), Average output(W)
Alarm Function	Laser output, Temperature, Electric current, Fiber breakage
Cooling Method	Air cooling
Power Source	AC 200-240 V \pm 10%, 1 ϕ , 50/60 Hz
Max Power Consumption	2.6 kW or less
Dimensions/ Weight	W410 x D600 x H370 mm (excluding protrusion)/ Approx. 58 kg

Other Avio Laser Welders

For Metal Welding

1kW
Fiber Laser Welder



YAG Laser Welder



For Soldering and Plastic Joining

Laser Diode Welder



**Requests for Sample Testing are Welcomed.
Please Contact Us.**

NIPPON AVIONICS CO., LTD.
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