



AIM TECH WELDING SYSTEM SDN BHD (655239-P)

NO.7865, JALAN TELUK BATU 1, BATU 4 ½, JALAN KEBUN, SEKSYEN 36,  
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## AIM 1500W BWT Laser Welding Machine



<b>Model</b>	:	<b>BWT-1500W</b>
Laser Wavelength	:	1080nm (+/- 10nm)
Rated Power	:	≥1200W
Beam (M2)	:	2.2
Optical Fibre	:	At 50M, 10M
Modulation Frequency	:	20KHz
Stability	:	<3%
Beam Output	:	1 Beam
Cooling Medium	:	Distilled Water, Ionized Water
Power Supply	:	220V±10%, 50Hz, Rated Power 5kW, Rated Voltage 40A
Welding Material	:	Stainless Steel, Carbon Steel, Aluminium



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## Product Feature

### BWT Laser Power Source



- 1500W BWT Laser, one year warranty covering manufacturing defect.
- 50um optical fibre heart diameter.
- High quality beam and stable performance.



### Suplaser Welding Head

- Ergonomically design for ease of use.
- Enable welding at any position and angle.
- Infrared positioning ensures greater welding accuracy.



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### Navar Control System

- LCD Screen with an intuitive control system.
- Preset various craft modes and multiple security alarms for enhanced safety and reliability.



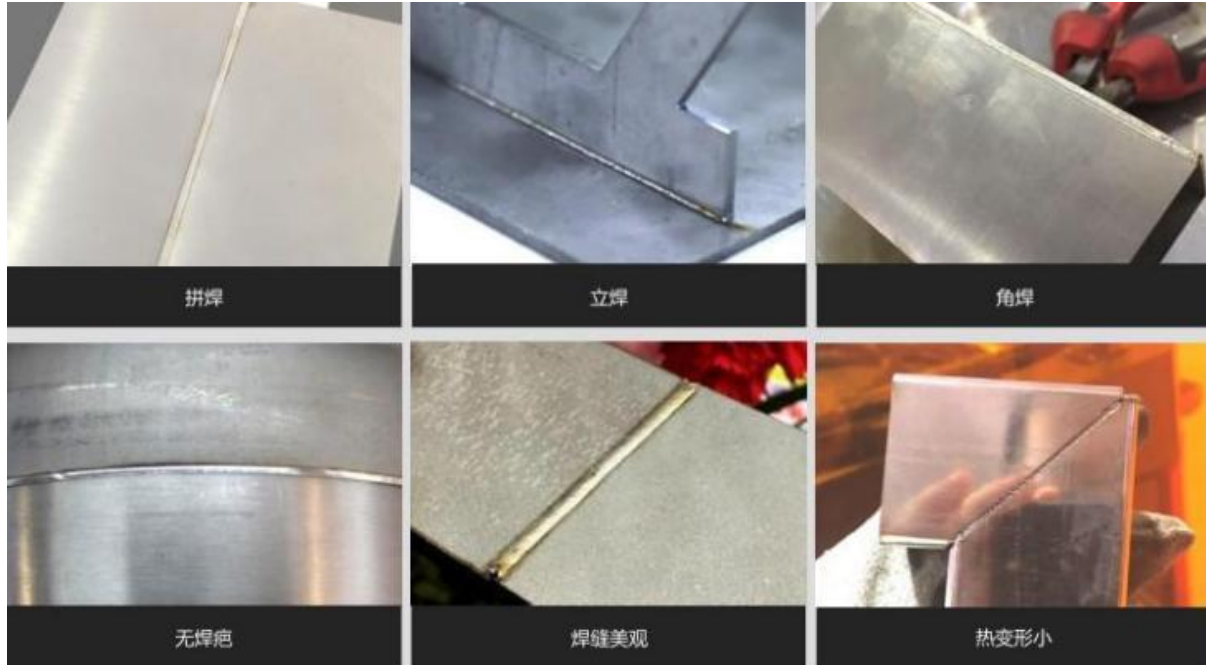
### Cooler Machine

- Intelligent control with compressor refrigeration.
- Liquid crystal display with real-time temperature monitoring.
- User-friendly, reliable, energy-efficient, and high-performing.



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## End Products of Laser Welding



## Advantages of Laser Welding Compared to Traditional Welding

Laser welding offers several advantages over traditional welding methods. Here are some key benefits:

1. **Precision and Accuracy:** Laser welding allows for highly precise and accurate welds, making it ideal for intricate and delicate work. The laser beam can be precisely controlled, allowing for minimal heat-affected zones.
2. **High-Speed Welding:** Laser welding can be much faster than traditional welding methods, which increases productivity, especially in automated production lines.
3. **Minimal Distortion:** Due to the focused nature of the laser beam, there is less heat input into the surrounding material. This results in minimal distortion, warping, or residual stress on the workpiece.
4. **Ability to Weld Difficult Materials:** Laser welding can be used to weld a wide range of materials, including those that are difficult to weld with traditional methods, such as certain metals, ceramics, and dissimilar materials.
5. **Non-contact Process:** Laser welding is a non-contact process, meaning that the welding tool (the laser) does not physically touch the workpiece. This reduces wear and tear on tools and allows for welding in hard-to-reach areas.



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6. Clean and Aesthetic Welds: Laser welding produces clean and aesthetically pleasing welds with minimal need for post-weld finishing, such as grinding or polishing.
7. Narrow Weld Seams: The concentrated energy of the laser beam results in narrow, deep weld seams, which can be beneficial for applications requiring high strength and minimal material usage.
8. Automation and Integration: Laser welding can be easily integrated into automated systems, making it suitable for high-volume manufacturing environments. The process can be controlled with high precision using computer systems.
9. Welding of Thin Materials: Laser welding is particularly effective for welding thin materials, as it can create strong welds without causing excessive heat damage or burn-through.
10. Reduced Need for Filler Material: In many cases, laser welding can be performed without the need for additional filler material, which can reduce costs and simplify the process.

These advantages make laser welding a preferred method in industries such as aerospace, automotive, electronics, and medical device manufacturing, where precision, speed, and quality are critical.