

WATER-COOLED LASER WELDING: FOR PROFESSIONALS WHO DEMAND MORE

- **Powerful Laser Output:** Achieve stronger welds with our full-power laser capable of penetrating up to 8 mm
- **Efficiency Boost:** Enjoy 2-10x faster welding speeds compared to traditional methods, potentially reducing your annual workforce by at least two welders
- **Precision with Minimal Distortion:** Our advanced technology ensures a minimal heat-affected zone, keeping your parts distortion-free post-welding
- **Reduced Post-Processing:** Delivers clean and smooth welds that require minimal to no post-weld grinding or finishing, enhancing productivity
- **User-Friendly Control:** Intuitive control panel designed for quick learning and operation, no special certification required



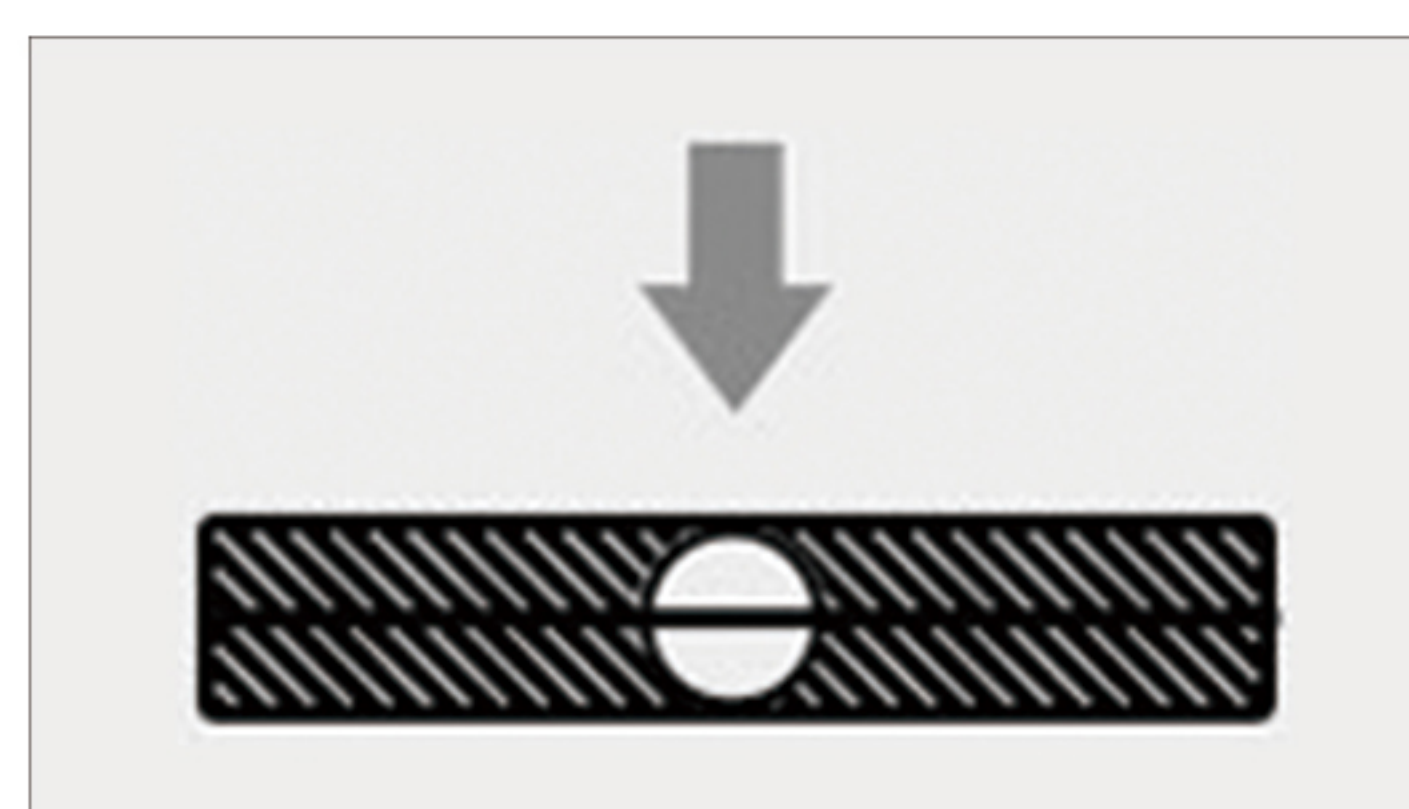
Welds Up to 200 mm/min, Meeting a Wide Range of Welding Needs Efficiently



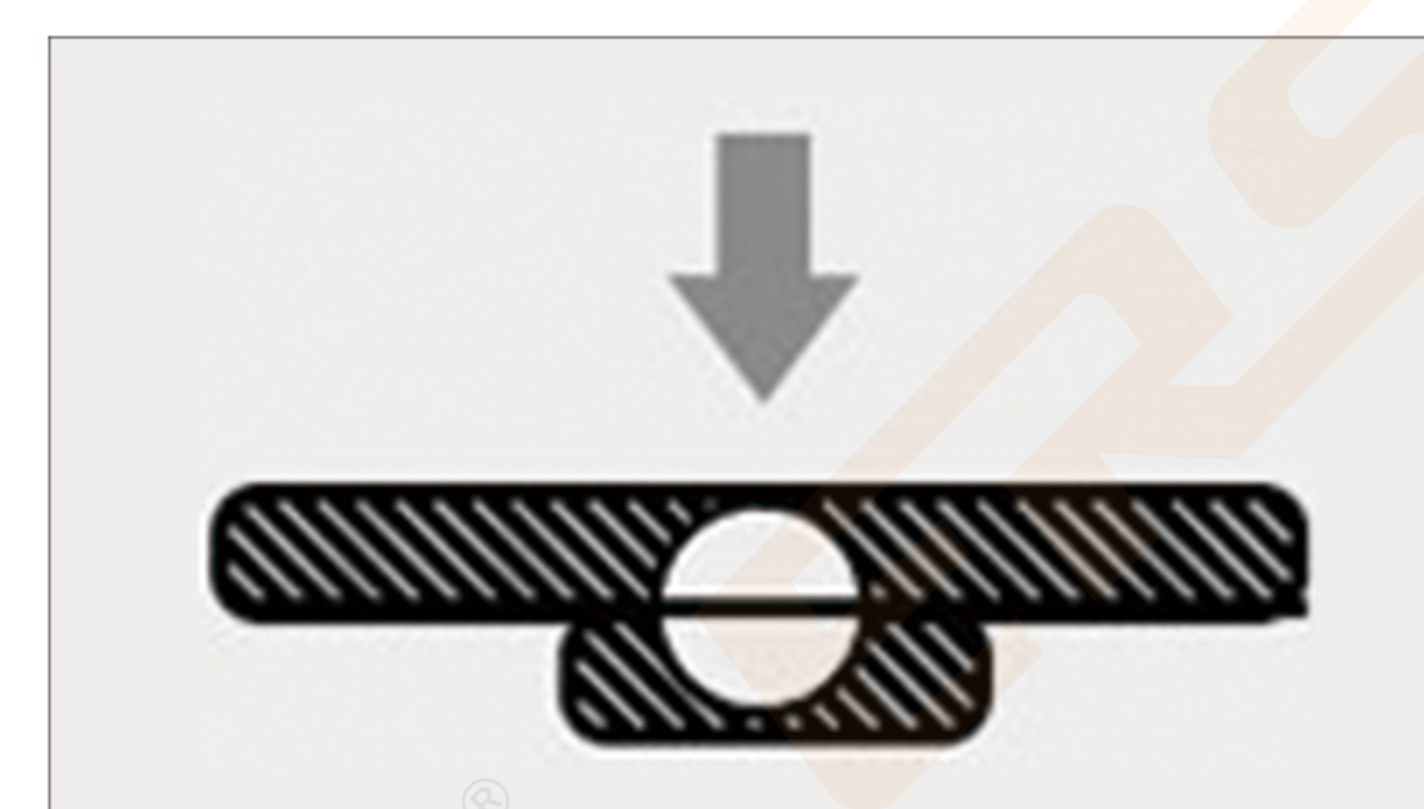
Butt Welding



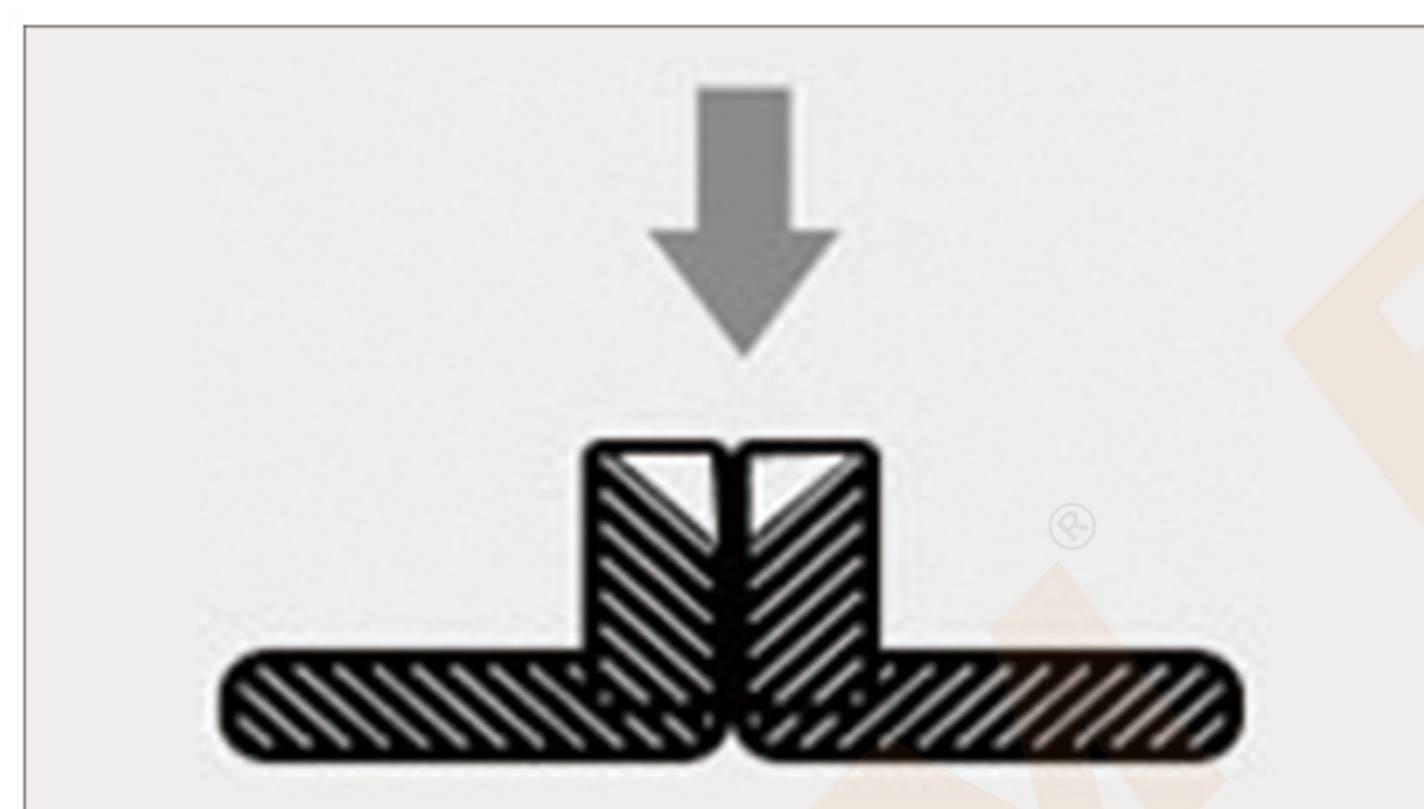
Lap Welding



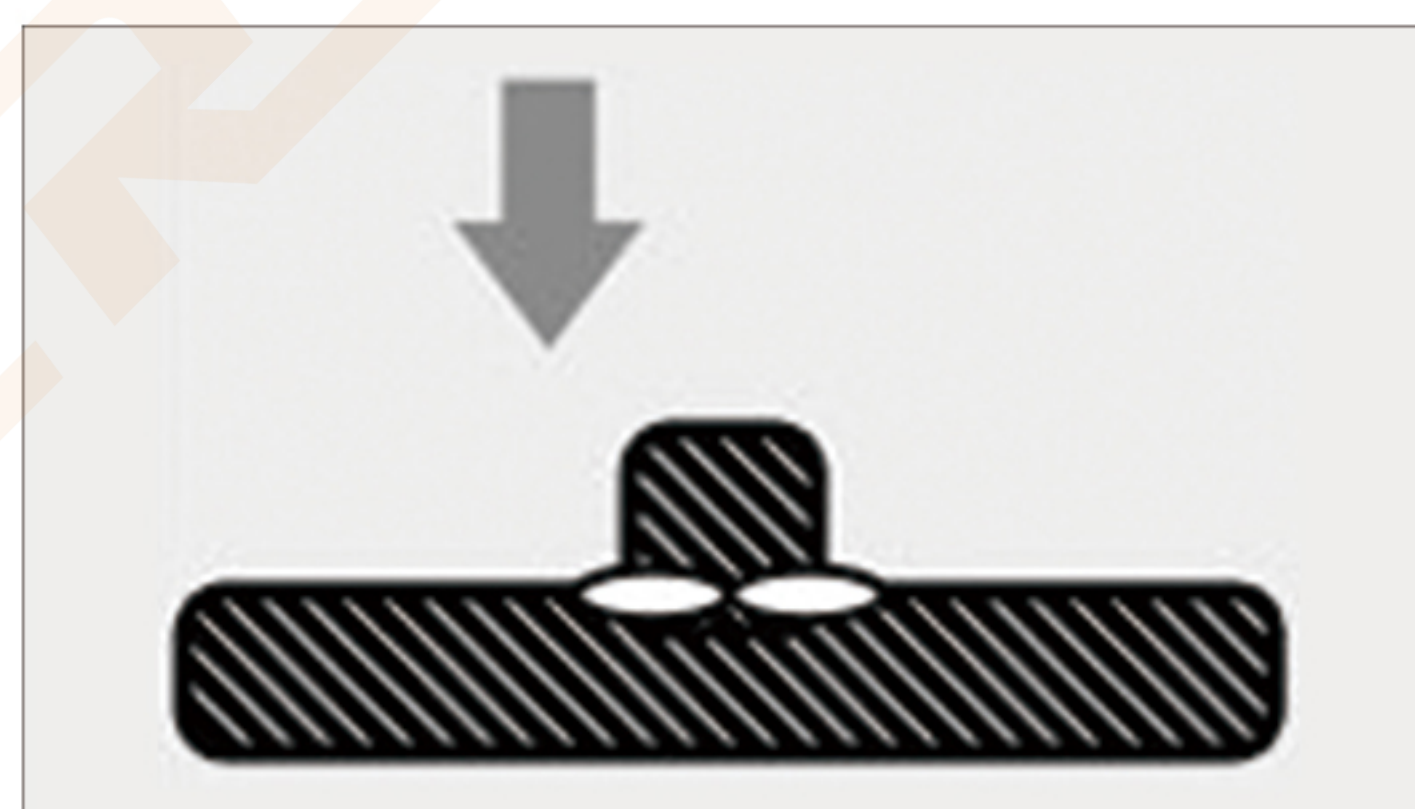
Overlap Welding



Stud Welding



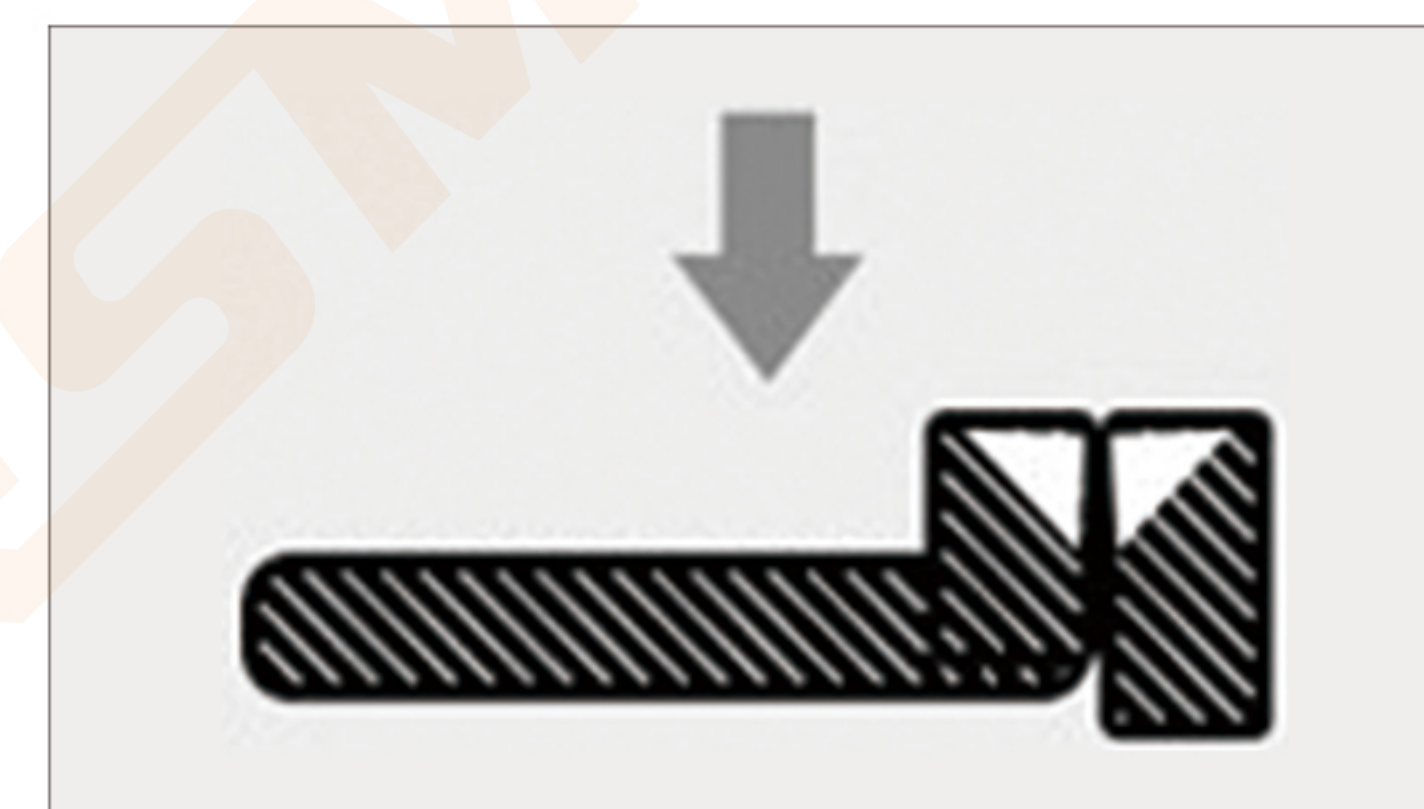
Flange Welding



T-Joint Welding

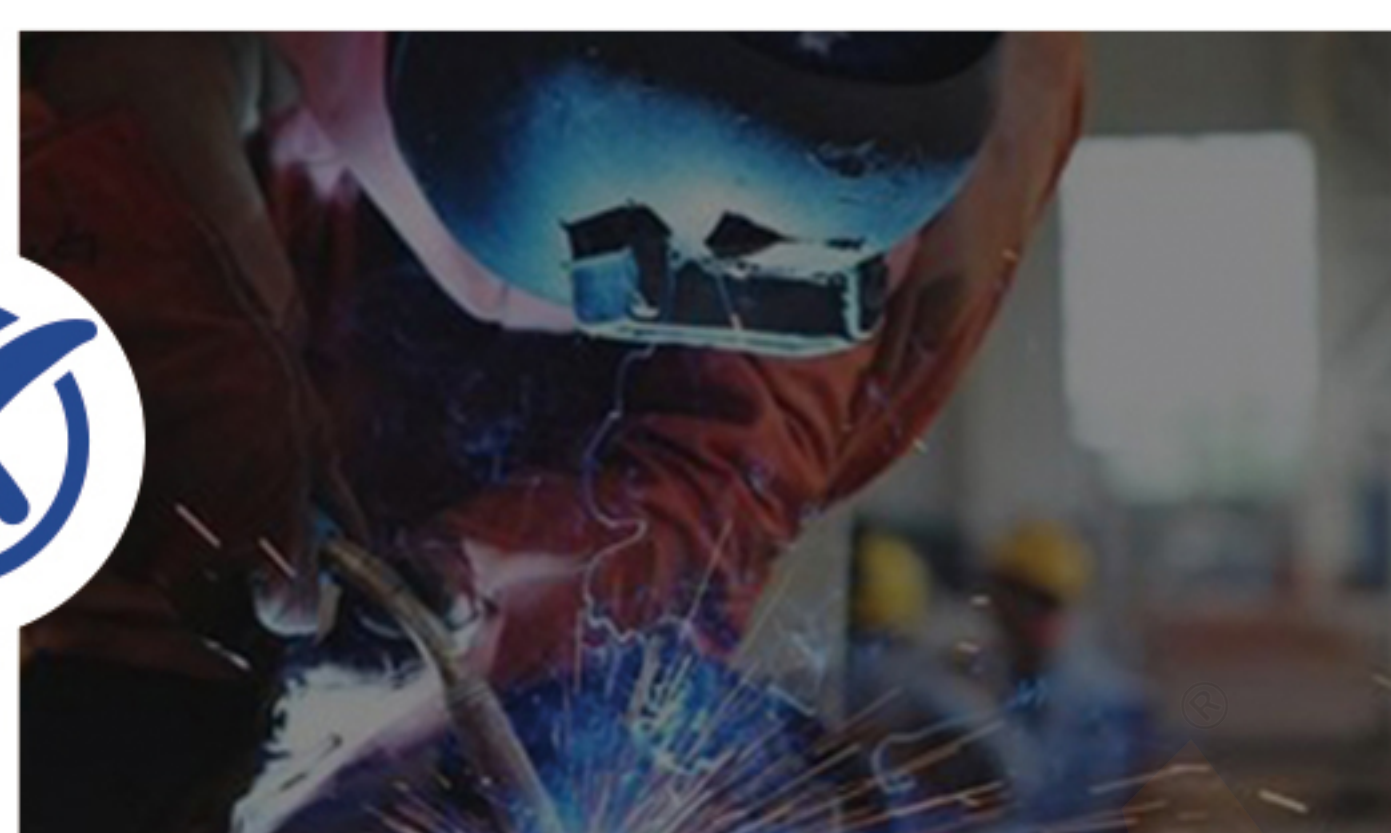


Lap Joint Welding



Butt Edge Welding

With Laser Welding



Traditional Welding Limitations:

Multi-operator complexity, inconsistent quality, hazardous environment, low productivity



Laser Welding Advantages:

Single-operator efficiency, one-pass precision, safe and eco-friendly

PROFESSIONAL QUALITY, ATTENTION TO EVERY DETAIL

Industrial-grade quality, ergonomic design, long service life, and guaranteed reliability



- Industrial copper welding head – lightweight, ergonomic, built for long shifts
- Red-light pinpoint positioning with anti-collision & spatter shield – cooler tip, longer life



- Fully automatic wire feed, 15–600 cm/min, precision-controlled for uniform welds
- Continuous & pulse modes – one-click switch for thin or thick materials



- Corrosion-resistant sheet-metal housing – quiet, cool, and shop-floor tough
- Built-in dual-loop industrial chiller – keeps optics at constant temp for stable, high-power output

INTEGRATED AUTOMATION

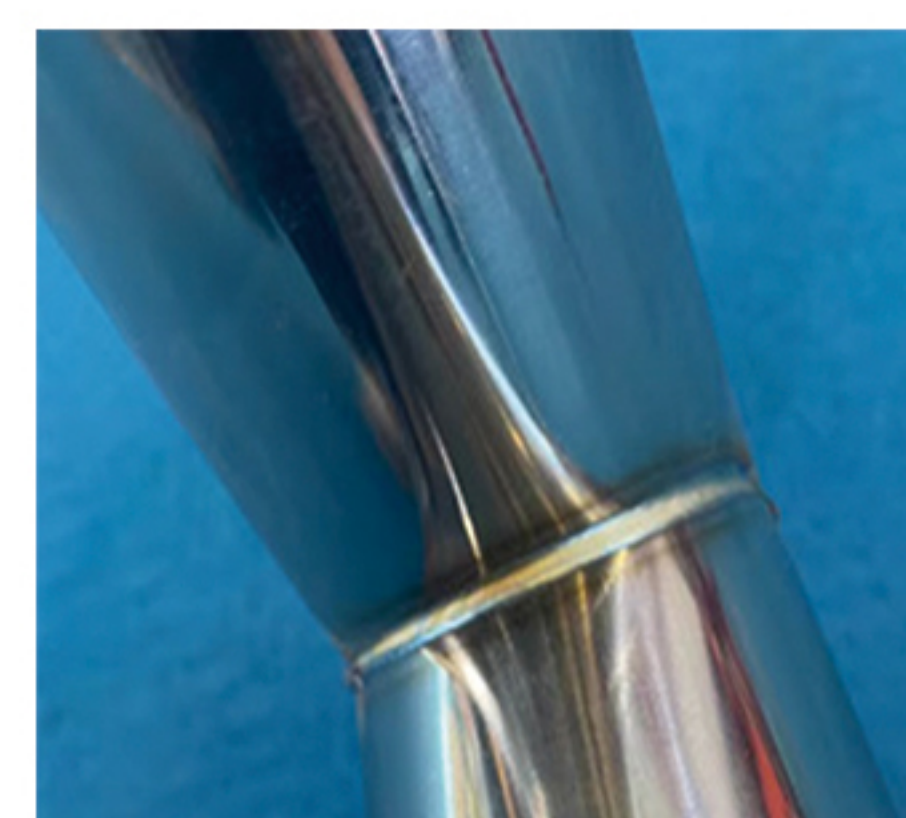
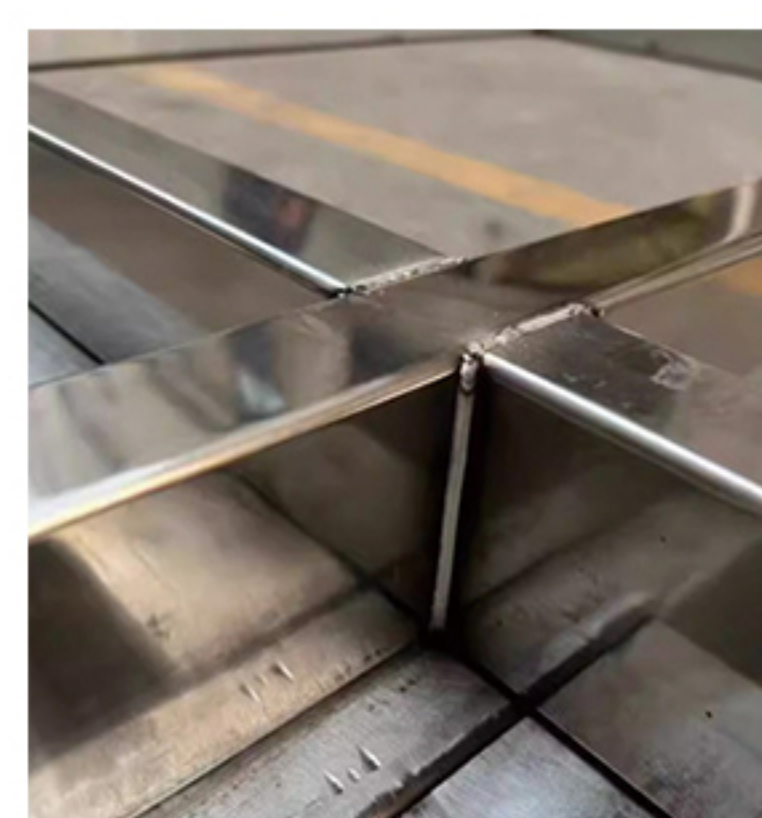
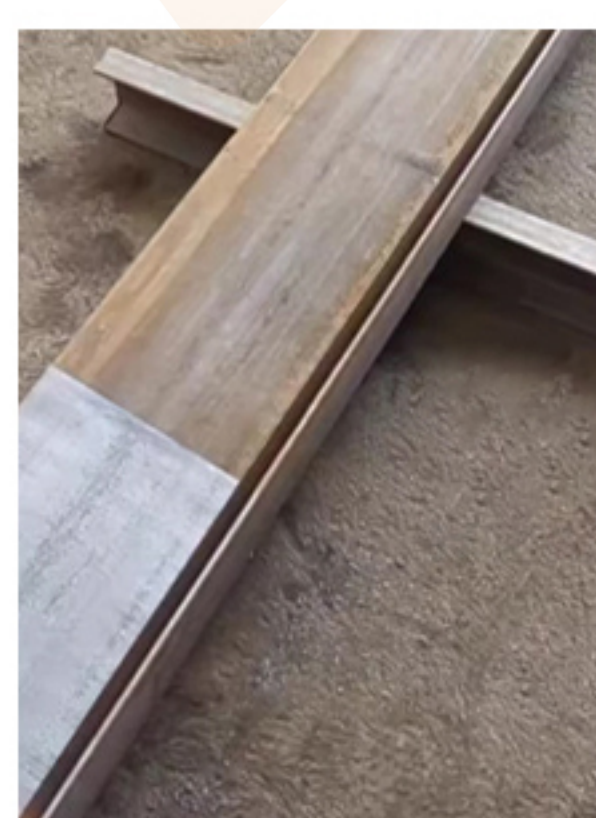


Robotic Laser Welding



Automated Laser Welding

TYPICAL APPLICATIONS



Model	HFW-1000W	HFW-1500W	HFW-2000W	HFW-3000W
Laser Power	1000W	1500W	2000W	3000W
Fiber Length	Standard 7 / 10m, customizable up to 15m			
Operating Mode	Continuous / Modulated Pulse			
Laser Wavelength	1070 / 1080nm			
Welding Speed	0-120mm/s			
Chiller	Dual-channel chiller with independent temperature control			
Operating Environment	5 ~ 40 °C, RH < 70 %, no condensation			
Applicable Sheet Thickness	0.6-8mm			
Gap Requirement	0-2mm			
Maximum Power Consumption	< 5kW	< 6kW	< 6.5kW	< 8.5kW
Input Voltage	220V/380V 50Hz (60Hz customizable)			
Size	910*410*730mm			1100*540*860mm
Weight	120-160KG			

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