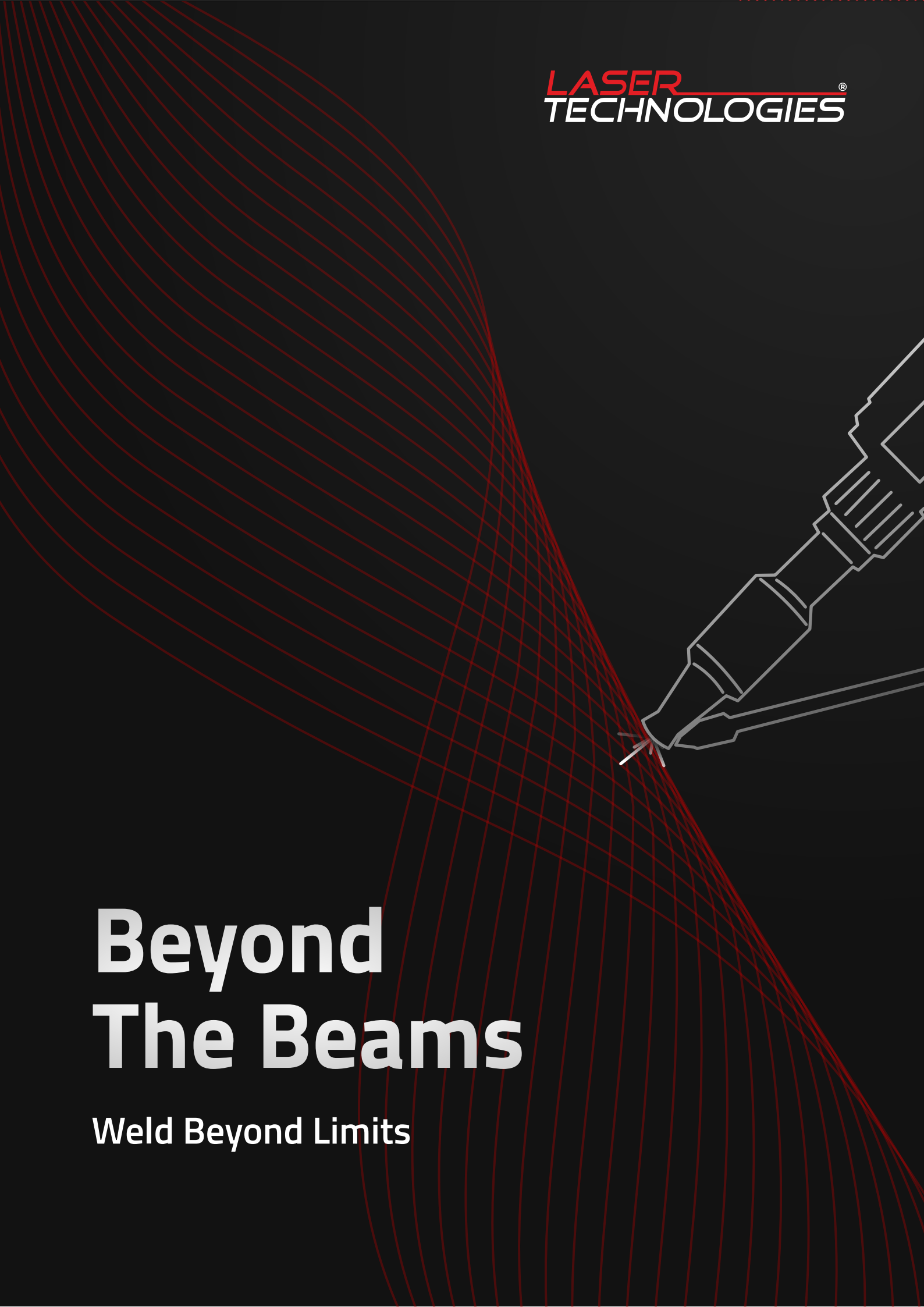


The background of the entire page is a dark charcoal grey. On the left side, a series of thin, curved red lines originate from the top left and fan out towards the right, creating a sense of depth and movement. In the upper right corner, the company logo is displayed. The word "LASER" is in a red, sans-serif font, and "TECHNOLOGIES" is in a white, sans-serif font, with a registered trademark symbol (®) to its upper right. The logo is positioned above a stylized white line drawing of a laser welding torch. The torch is angled downwards from the right edge, with its nozzle pointing towards the center of the page. At the tip of the nozzle, a small, bright white point represents the laser beam's focal point, where it meets the red lines.

LASER
TECHNOLOGIES®

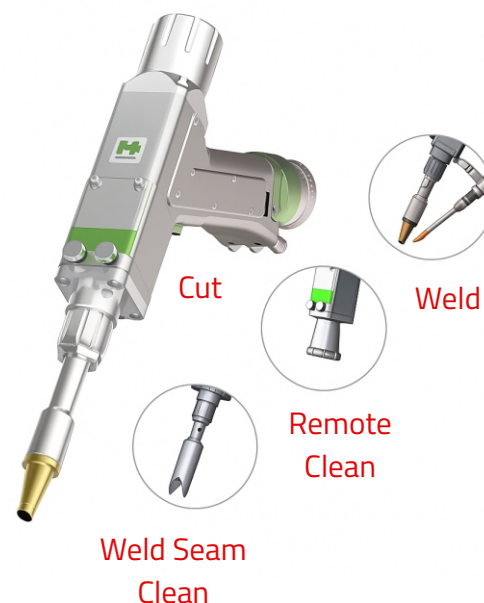
Beyond The Beams

Weld Beyond Limits

Smart-Weld 1000W – 3000W

Handheld Laser Welding Machine

- Compact integrated design with easy operation.
- Wobble welding to improve welding capacity to seam.
- Wire feeder included to expand application range.
- Multiple safety protection with auto beam off function once the nozzle goes away from workpiece.
- 4-in-1 function (Weld/Cut/WeldSeam Clean/Remote Clean). Quick-change structure of tip assembly from laser processing head.



Specifications

Model Name	SmartWeld-1000	SmartWeld-1500	SmartWeld-2000	SmartWeld-3000
Laser Source Make	Maxphotonics / Raycus	Maxphotonics / Raycus	Maxphotonics / Raycus	Maxphotonics / Raycus
Laser Power	1000W	1500W	2000W	3000W
Laser Wavelength	1064nm - 1080nm	1064nm - 1080nm	1064nm - 1080nm	1064nm - 1080nm
Fiber Length	10m	10m	10m	10m
Fiber Core	25um / 50um	50um	50um	50um
Welding Speed	1mm/s - 20mm/s	1mm/s - 20mm/s	1mm/s - 20mm/s	1mm/s - 20mm/s
Welding Style	Wobble (Single Axis)	Wobble (Single Axis)	Wobble (Single Axis)	Wobble (Single Axis)
Wobbling Range	0-5mm (Weld)	0-5mm (Weld)	0-5mm (Weld)	0-5mm (Weld)
	0-10mm (WeldSeam Clean)	0-10mm (WeldSeam Clean)	0-10mm (WeldSeam Clean)	0-10mm (WeldSeam Clean)
	0-80mm (Remote Clean)	0-80mm (Remote Clean)	0-80mm (Remote Clean)	0-80mm (Remote Clean)
Welding Seam Width	Max. 5mm (Single Wire)	Max. 5mm (Single Wire)	Max. 5mm (Single Wire)	Max. 5mm (Single Wire)
			Max. 8mm (Dual Wire)	Max. 8mm (Dual Wire)
Cooling	Water Cooling	Water Cooling	Water Cooling	Water Cooling
Cover Glass	20mm×3mm /	20mm×3mm /	20mm×3mm /	20mm×3mm /
	18mm×2mm	18mm×2mm	18mm×2mm	18mm×2mm
Collimation Length	60mm	60mm	60mm	60mm

Model Name	SmartWeld-1000	SmartWeld-1500	SmartWeld-2000	SmartWeld-3000
Focus Length	150mm	150mm	150mm	150mm
Power Supply	220V / Single Phase / 50 or 60Hz			380V / 3 Phase / 50 or 60Hz
Overall Dimension	910×490×800mm	910×490×800mm	1105×490×823mm	1248×585×1070mm
Transportation Dimension	1050×600×850mm	1050×600×850mm	1240×640×1040mm	1330×590×1190mm
Weight	~125kg	~125kg	~140kg	~215kg
Transportation Weight	~155kg	~155kg	~170kg	~260kg
Wire Feeder	Single Wire Feeder	Single Wire Feeder	Single + Double	Single + Double
Wire Diameter	0.8 / 1.0 / 1.2 / 1.6 mm	0.8 / 1.0 / 1.2 / 1.6 mm	1.2 / 1.6 / 2.0 / 2.5 mm	1.2 / 1.6 / 2.0 / 2.5 mm
Feeding Speed	1 mm/sec – 100 mm/sec			
Wire Material	SS / AL / Magnesium / Copper			
Overall Dimension	440 × 250 × 580 mm	440 × 250 × 580 mm	440 × 250 × 580 mm	440 × 250 × 580 mm
Transportation Dimension	470 × 310 × 620 mm	470 × 310 × 620 mm	470 × 310 × 620 mm	470 × 310 × 620 mm
Wire Feeder Weight	14 kg	14 kg	14 kg	14 kg
Transportation Weight	~15 kg	~15 kg	~15 kg	~15 kg

Key Features

- Compact integrated design with easy operation.
- Raytools Switzerland make Wobble welding gun to improve welding capacity to seam.
- Wire feeder included to expand application range.
- Multiple safety protection with auto beam off function once the nozzle goes away from workpiece.
- "4-IN-1 FUNCTION" (Weld/Cut/Weld Seam Clean/Remote Clean) with quick-change structure of tip assembly from laser processing head.
- 4-in-One Handheld Laser Processing Head supports Cut, Weld, Weld Seam Clean, and Remote Clean operations.
- 4-in-one laser control system (Cut/Weld/Weld Seam Clean/Remote Clean) and HMI panel are included.
- Single axis wobble with adjustable line spot from 0 to 5mm.
- Various tip assemblies in the standard kit fulfill cutting, welding, and weld seam cleaning needs, while remote cleaning assembly is optional.
- Wide welding seam, low porosity, and excellent melting pool protection.
- Wire feeder is optional to further expand the application range.

Laser Power vs Thickness Penetration

Material	1000W	1500W	2000W	3000W
MS	≤3.0mm	≤4.0mm	≤6.0mm	≤8.0mm
SS	≤3.0mm	≤4.0mm	≤6.0mm	≤8.0mm
GI	≤2.0mm	≤3.0mm	≤3.0mm	≤3.0mm
AL	≤1.0mm	≤1.5mm	≤2.0mm	≤3.0mm
Brass	≤0.5mm	≤1.0mm	≤1.5mm	≤2.0mm
Copper	≤0.5mm	≤1.0mm	≤1.5mm	≤2.0mm

Only 4047, 4043, 5052, 5082 & 6061 Grades are best for Laser Welding Application.

High energy levels required to overcome surface reflectivity unless 532 nm wavelength welding laser is used.



Scan Me

ROBO-Weld - Key Features

Automation-Ready Handheld Laser Welding Machines :

- All our handheld laser welding machines can be seamlessly integrated with robotic or automation systems to boost productivity and consistency in industrial applications.
- Compatible with leading robotic brands including FANUC, ABB, YASKAWA, and others — ensuring flexibility and ease of integration.
- Robotic arms are available in three standard working ranges to suit diverse operational needs:
 - 1.4 meters
 - 1.8 meters
 - 2.2 meters



COBO-Weld - Key Features

Cobotic Laser Welding Machine :

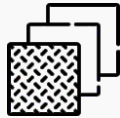
- Adaptive Arc Length Control
- Built-in Wire Feeder & Torch Cleaning
- Smart Collision Detection
- Energy Efficient Operation
- Virtual Safety Zones (No Physical Barriers)
- Lightweight & Trolley-Mounted
- 360° Arm Movement for Complex Welds



Our Experties In Key Industries



Elevators & Escalators ▶



Sheet Metal Fabrication ▶



Signage ▶



Die Mould Repair ▶



Aerospace ▶



Automotive ▶



Furniture ▶



Textile Processing ▶

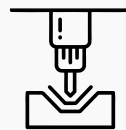
Our Solutions



Laser Marking ▶



Laser Cutting ▶



Panel Bender ▶



NC/CNC Press Brake ▶



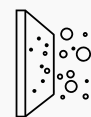
Laser Welding ▶



Robotic Laser Solution ▶



Deburring Machine ▶



Dust Collector ▶

Our Customer Services



9 Branch Office ▶



10+ Global Partner ▶



7.5K+ Happy Customers ▶



150+ Employees ▶



Backup - Spare Parts ▶



Quick Response ▶

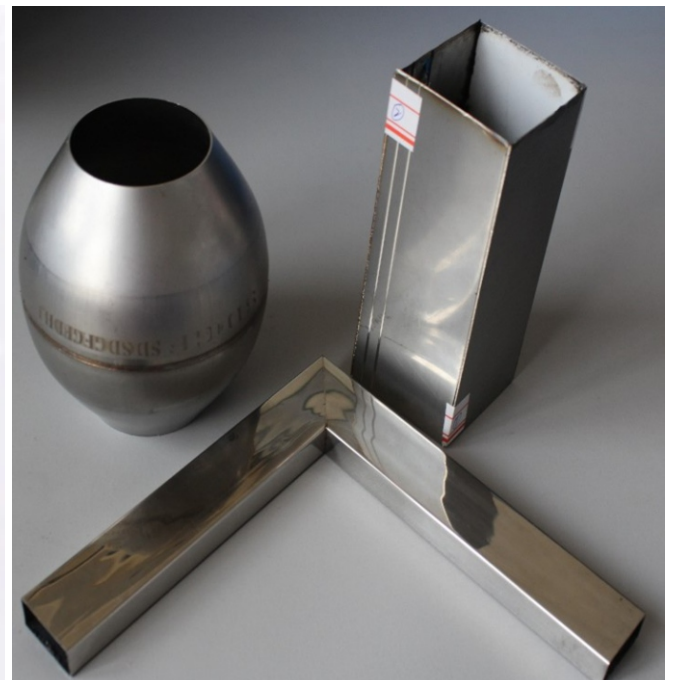
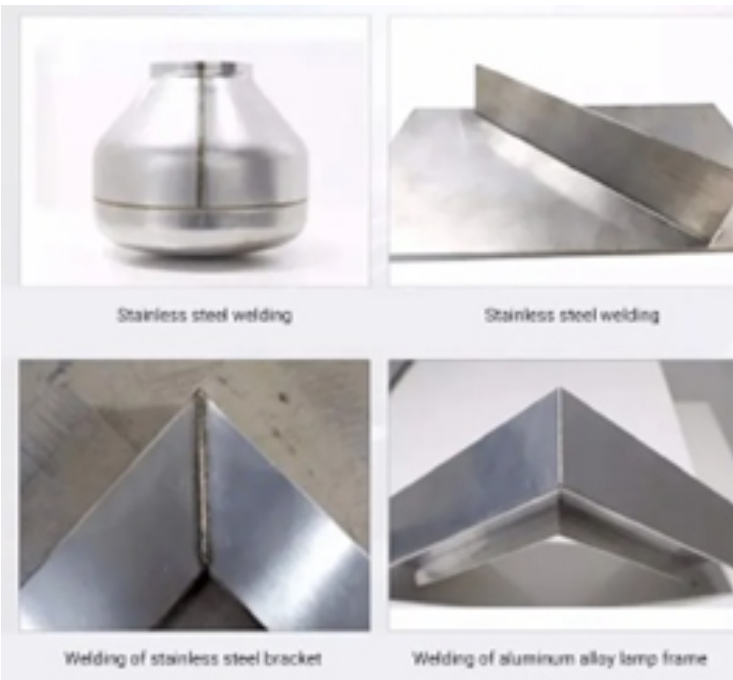
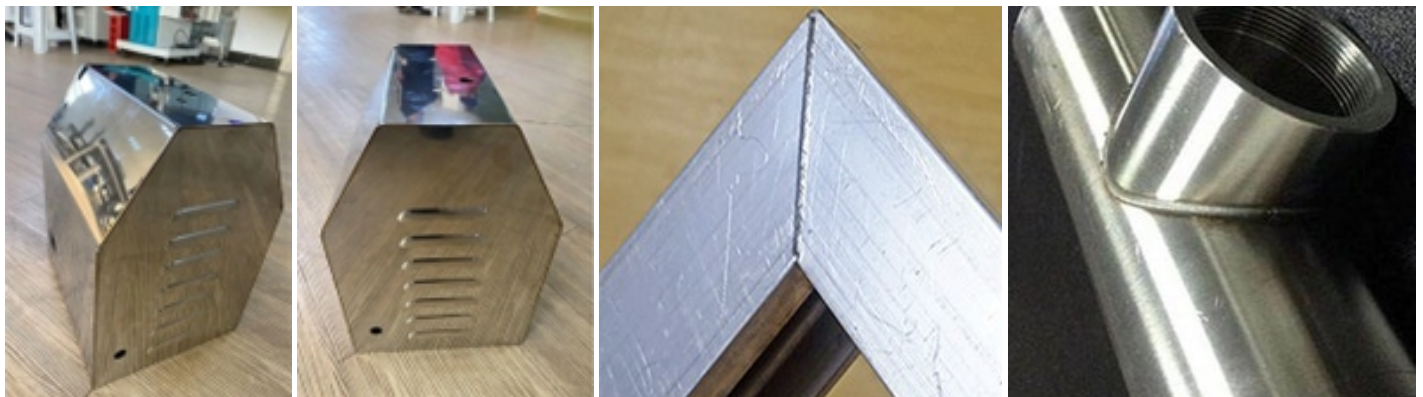
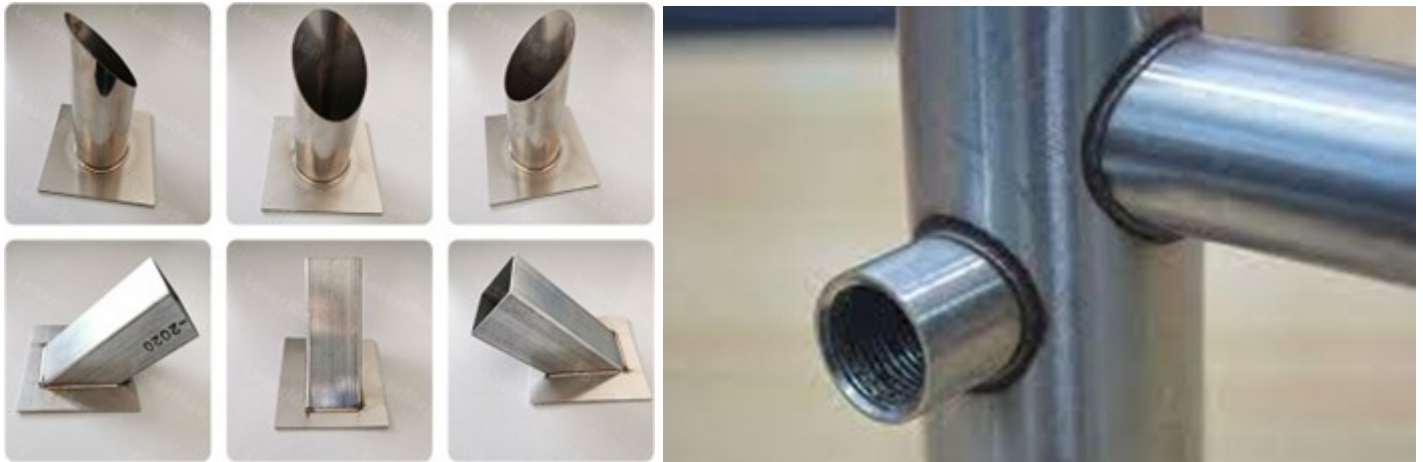


24 x 7 Service Support ▶



Machine Upgradation ▶

Laser welding samples from our Machines on real fields





LASER **TECHNOLOGIES**®

AN ISO 9001 : 2015 CERTIFIED COMPANY

HEAD OFFICE

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