

**SPECTRUM  
LASER INC.**

**FIBER WELD**

# A Winning Connection

**LASER WELDING MACHINE**

# Earn more with laser welding

The right laser for your welding application, the right machine for your production, the automation that matches your material flow – this is what SPECTRUM delivers. Our large range of laser welding machines assures that you receive the right product. The vital questions for choosing the right machine are about your situation: What are your requirements regarding material and quality? How high is your average capacity? What do you need to make your manufacturing as cost-effective as possible?

Laser welding is not only about welding times. The entire process is important. Intelligent functions, for instance, help to design single processing steps in a smarter way. A large service network supports you if necessary.

**Automated laser welding catapults  
your sheet metal operations into a  
new league.**

# 90%

time savings\*

# 65%

cost savings\*

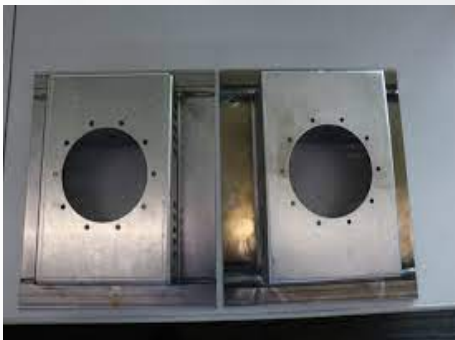
**Your Requirements  
your welding laser**  
Find out more about us  
for solution  
[www.spectrumlaserinc.com](http://www.spectrumlaserinc.com)

# Create opportunities

Becoming an early adopter of laser welding gives you the chance to earn significantly more by letting you produce parts at a fraction of the cost. It also brings new contracts your way because you can work faster and offer more than your competitors. The fact is that joining offers more potential to save money than any other machining step in the sheet metal process chain!

## High-quality seams

Are your customers looking for extremely stable or visually appealing seams? If so, laser welding is a great choice. It produces high-strength, tight, and aesthetically pleasing weld seams.



## Minimal distortion

The simple solution for high-precision welding. Laser welding has a lower heat input than arc welding, resulting in less distortion in the welding zone. That makes downstream processing easier.



## Reproducible results

Automated laser welding offers consistent quality because robots remember every step perfectly.



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# ROBO WELD

One machine – infinite benefits

**Make your job easier**

**Top parts quality**

**Load it your way**

**Easy to operate and network**

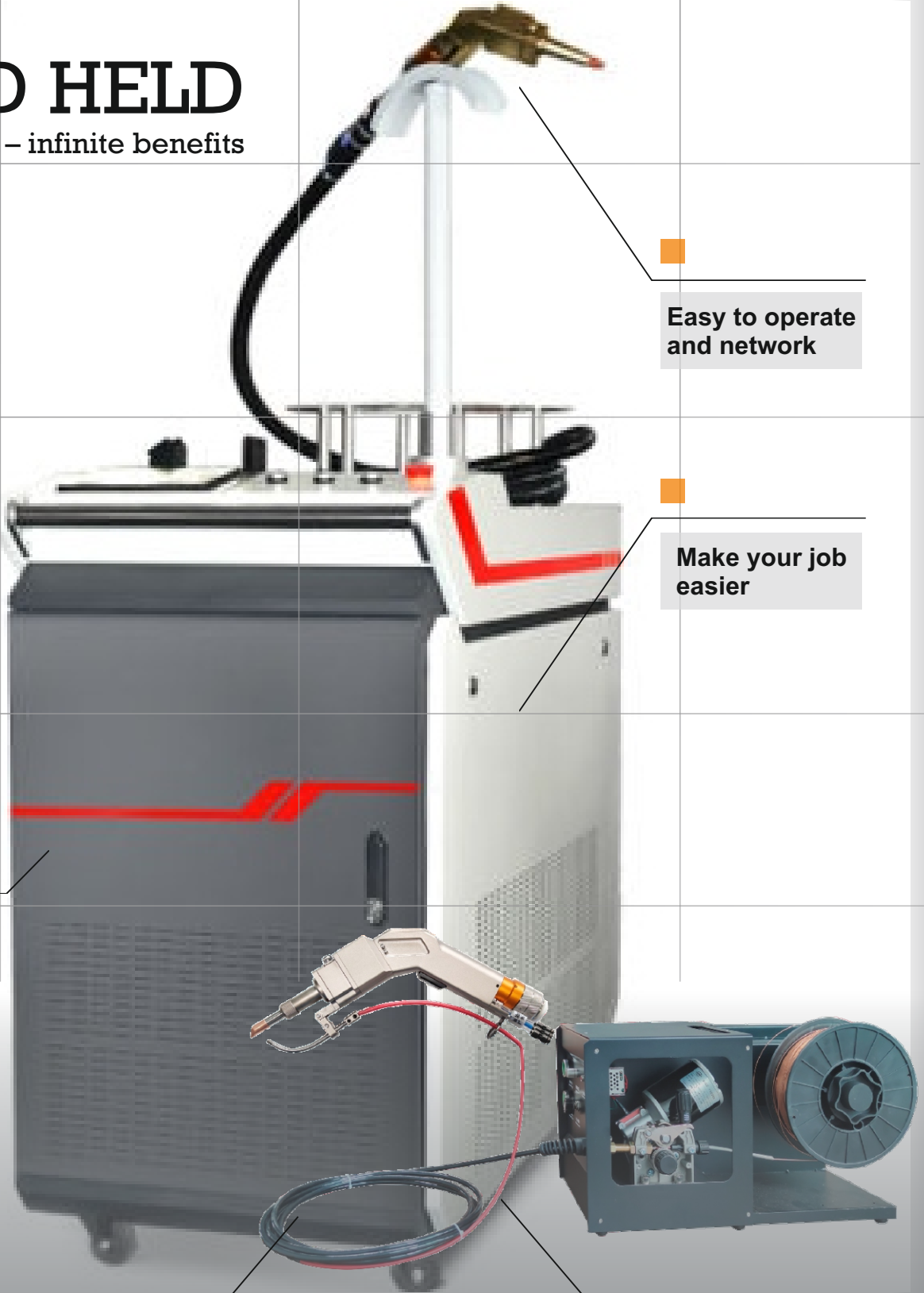
**Enjoy flexible laser welding**

**Robust and reliable**

**Improve accessibility**

# HAND HELD

One machine – infinite benefits



Easy to operate and network

Make your job easier

Enjoy flexible laser welding

Reliable joining

Improve accessibility

# Technical Data

## HANDLING SYSTEM

Type	High-accuracy robot
No. of axes	6
Repeat accuracy mm	± 0.05

## WELDING CABIN

Available booth dimensions mm	4800 X 6000 X 3330 (Optional)
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## AVAILABLE LASERS

Laser Source	Raycus/Max/JPT/IPG
Power	1KW/1.5KW/2KW/3KW/4KW
Laser Head	Raytool/WSX/Ospri
Chiller Unit	Hexa Cool/ S&A/Tongfei
Wire Feeder Unit	Optional
Controller	High Resolution Touch Panel

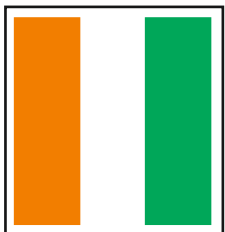
## MAX. SHEET THICKNESS, HEAT CONDUCTION WELDING<sup>2</sup>

Power Output	W	1000	2000	3000	4000
Stainless Steel	mm	1.0	1.5	2.0	3.0
Mild Steel	mm	1.0	1.5	2.0	3.0
Aluminum	mm	0.5	1.0	1.5	2.5

## MAX. WELD DEPTH, DEEP WELDING<sup>2</sup>

Power Output	W	1000	2000	3000	4000
Stainless Steel	mm	1.5	3.0	5.0	7.0
Mild Steel	mm	1.5	3.0	5.0	7.0
Aluminum	mm	1.0	2.0	3.0	4.0

# Complete LASER Solutions under one roof



**SPECTRUM  
LASER INC.**

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