

MaxPhotonics X1-MFSC 1500 Hand-guided Laser Welder

Our hand-held laser welding machines can be widely used throughout all kinds of industries with various needs.

The simple operation combined with a clean welding result and a high welding speed makes it a perfect tool for different welding jobs.

The portable and lightweight design of the machine provides operators with the flexibility to use it wherever needed.



Compared to WIG welding, laser welding is up to

4x faster



lower heat impact
compared to other welding applications

Simple operation

Our hand-held laser welding machines can be easily operated with just a basic training. This makes it easy to achieve great welding results.

The wobble laser head is very light and flexible and can therefore weld any part of the workpiece, making the welding work more efficient, and saving cost and energy.

More key features

- low material distortion
- wobble technology
- small & portable
- clear interface
- great welding results
- flexible & convenient
- easy to use
- saving cost



find more pictures online



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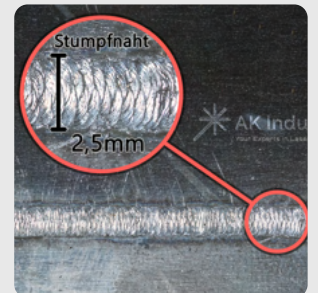
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Contact us now for more information:

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Technical Parameters

| | |
|-------------------------------|-------------------------|
| Size [LxWxH] | 667 x 276 x 542 mm |
| Weight | 39 kg |
| Optical Output Power | 1500 W |
| Operating Mode | CW and pulsed |
| Laser Wavelength | 1080 µm |
| Swing Width | 0 ~ 4 mm |
| Swing Frequency | 0 ~ 300 Hz |
| Cooling Method | Air |
| Operating Ambient Temperature | 10° - 40° C |
| Operating Ambient Humidity | 10 % - 85 % |
| Input Voltage | 220 VAC / 50 Hz / 60 Hz |
| Input Power | 6 kW |
| Average Load Power | 6000 W / 4500 W |



Laser Head Welding Depth (Wobble Head)

| Thickness | Welding Shape | Power [W] | Scan width [mm] | Scan speed [mm/sec] | Feeding wire [mm] |
|-----------|---------------|-------------|-----------------|---------------------|-------------------|
| 1 mm | Flat welding | 500 ~ 600 | 3,0 | 350 | 0,8 ~ 1,0 |
| 2 mm | Flat welding | 600 ~ 700 | 3,0 | 350 | 1,2 |
| 3 mm | Flat welding | 700 ~ 1000 | 3,5 | 350 | 1,2 ~ 1,6 |
| 4 mm | Flat welding | 1000 ~ 1500 | 4,0 | 350 | 1,6 |



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