

## Laseral Mobile Fiber Laser Welding System

ATAK fiber laser welding system is designed for **welding** of all types of **metals** and **metal alloys**. Its **fiber laser technology** provides very **low** service and operating **costs**.

### Comparison with lamp-pumped Nd:YAG lasers

- Outstanding pulse power / energy stability
- Low cost, high peak power
- Low power consumption
- Long life of pump diodes
- No wear parts, maintenance-free operation
- Operation in pulse and continuous wave (CW) modes
- Air cooling, no need an external cooling system
- High welding speed

### Mobility

- Compact design, easy to transport
- Only a simple power outlet is required (240V / 16A / 1 Phase)



**LASERAL** is the **true choice** when you require **precise welding** in **high speed and precision** with **narrow HAZ** (Heat Affected Zone).

### Applications

- ✓ Spot Welding
- ✓ Seam Welding
- ✓ Deposition Welding
- ✓ Micro Welding

### Sectors

- ✓ Moldmaking
- ✓ Jobshop
- ✓ Medical
- ✓ Aerospace
- ✓ Electronics
- ✓ Automotive
- ✓ Others

Laser Source	Fiber Laser
Max. Mean Power	150 W / 300 W / 450 W / 600 W
Wavelength	1070 ± 6 nm
Max. Pulse Energy	15 J / 30 J / 45 J / 60 J
Max. Peak Power	1,5 kW / 3 kW / 4,5 kW / 6 kW
Cooling System	Air Cooling

- ❖ Manually adjustable acrobatic arm for positioning
- ❖ Motorized X-Y-Z axes operation controlled via joystick
- ❖ Ball joint for manipulation of laser head
- ❖ Laser parameter adjustment and controlling via touch screen
- ❖ Alternatively foot pedal control for ergonomic operation
- ❖ 2 years warranty!

**Laseral U.S. Sales and Service : Sullivan Tool & Repair Inc.**

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## Laseral Mobile Fiber Laser Welding System



Manually adjustable acrobatic arm for positioning



Magnification of workpiece with LEICA Binocular



Ball joint for manipulation of laser head



Laser protected ringlight for illumination of welding area



Laser parameter controlling via touch screen



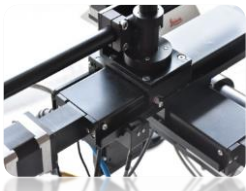
Limit switch for safe travel of the axis



Motorized control via joystick



Gas feeding nozzle and acrobat light source



Precision controlled X-Y-Z and optionally R axes

MAX. AVERAGE OUTPUT POWER: 600 W  
MAX. PEAK OUTPUT POWER: 6 kW  
PULSE DURATION: 0.01-100 ms  
PULSE REPETITION RATE: 0-50 kHz  
WAVELENGTH RANGE: 900-1200 nm

DANGER - INVISIBLE LASER RADIATION AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION CLASS 4 LASER PRODUCT  
IEC 60825-1:2014 /A11:2021

