

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 (230V / 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 |
| Wavelength | 1070±6 nm |
| Max. Pulse Energy | 15 J / 30 J / 45 J |
| Max. Peak Power | 1,5 kW / 3 kW / 4,5 kW |
| Cooling System | Air Cooling |

- ❖ Mobile laser welding system
- ❖ 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

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Manually adjustable acrobatic arm for positioning



Magnification of workpiece with LEICA Binocular



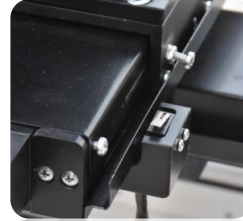
Ball joint for manipulation of laser head



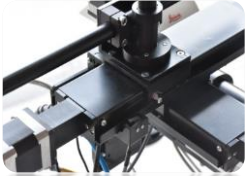
Ringlight for illumination of welding area



Laser parameter controlling via touch screen



Limit switch for safe travel of the axis



Motorized X-Y-Z axes controlled via joystick



Gas feeding nozzle and acrobat light source

