

# AXI FIBER

## MICRO WELDING LASER

QCW Fiber Laser ideal for spot welding, cutting, seam welding and drilling applications.

### Applications

- Spot and Seam Welding
- Drilling and Cutting
- Joining of aluminum to copper for electrical applications in automotive, transport and aerospace industries
- Fuel cell manufacture applications including transport and bulk energy storage
- Medical devices, Packaging & Electronics and sensors
- Hardest material can be processed



### Features

- Versatile fiber laser, working in continuous-wave and pulsed modes
- High liner processing speeds (up to 1m/sec), for minimised component distortion and high suitability for volume production applications
- Small laser beam width (~50µm), for narrow heat-affected zone
- High beam quality (BPP=2mm·mrad with 50µm fiber diameter)
- Pulse shaping capability, to enable tailored energy distributions
- Outstanding pulse power and energy stability

### Technical Specification

- 1070 µm wavelength
- Pulsed/Continuous-wave (CW) operation
- Peak power/Maximal average output power - 150/1500, 200/2000, 300/3000, 500/5000
- 60J maximal average pulse energy
- Max modulation rate: 10Hz (at pulsed mode t=10msec); 500Hz (at pulsed mode=t=0.2msec); 500Hz (CW mode)
- 50µm and 200µm beam width
- >30% wall-plug efficiency



An ISO 9001: 2015 certified company

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