

RAYTOOLS BW251 SERIES

Auto-Focusing Welding Head

Power Rate 8000W



scan it for more details



Fully Automated

Automated welding can be achieved by automatically controlling the amount of defocus

Intelligent Sensing

Real-time monitoring of the operating temperature of the collimated focusing mirror and the insertion or removal of the protective mirror

Excellent Welding Quality

Optimized optical design to achieve high-speed, high-quality high-power laser welding

Expansion Modules

Extensible weld tracking or location-finding functions and other modules, add value to achieve automated welding

Efficient Cooling

Both collimated and focused mirrors are water-cooled and can work stably for a long time period and extend service cycle

High-Quality Airflow

Using a smooth and efficient fluid structure design to obtain the best melt pool protection effect

Specifications

| | |
|-------------------------|--------------------------|
| Fiber Interface | QBH |
| Clear Aperture | 48 mm |
| Collimator Focal length | 100 mm |
| Focusing Focal length | 100 mm , 200 mm , 250 mm |
| Auto focus | |
| - Range | +20~25 (FL200) |
| - Acceleration | ≤10 m/s ² |
| - Velocity | ≤15 m/min |
| Accuracy | ≤80 μm |

| | |
|---------------------|------------------|
| CCD | TYPE-C , TYPE-CS |
| Cover glasses | |
| - Collimation side | Φ50 mm * 2 mm |
| - Focusing side | Φ50 mm * 2 mm |
| Assist gas pressure | |
| - Air Knife | 6bar |
| - Protection Air | 10-25L/min |
| Weight | ~7.5 kg |