

Tik Tok



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Shenzhen Ospri Intelligent Technology Co.,Ltd.

Address: Room 1001,Building A, No.4 Factory, Baolong
ZhizaoyuanNew Energy 1st Road, Baolong
Community, Longgang District,Shenzhen

website: www.ospri.cn

E-mail: ospri.sales@sz-ospri.com

Product Catalog



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Laser Welding Head

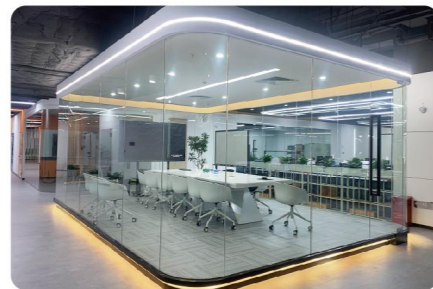
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Shenzhen Ospri Intelligent Technology Co.,Ltd.

- Founded in 2015
- Specializing in core components for industrial lasers and intelligent industrial control hardware and software.
- Certified as a Specialized, Refined, and Innovative Enterprise and a National High-Tech Enterprise.
- Currently serving over 2,000 customers.
- Main markets cover South China, East China, North China, as well as 14 countries and regions overseas.



Over 100 patent certificates accumulated

- Certificate of Specialized, Refined, and Innovative Small and Medium-Sized Enterprise.
- National High-Tech Enterprise Certificate.
- First Batch Shenzhen Municipal Green Factory Certificate.
- Key Recommended Brand Certificate of Major National Intelligent Manufacturing.
- Guangdong Province Contract-Abiding and Credit-Reliable Enterprise Certificate.
- 23 Invention Patents.
- 17 Design Patents.
- 48 Utility Model Patents.
- 38 Computer Software Copyright Registration Certificates.
- Quality / Environmental / Energy / Occupational Health Management System Certificates.





Testing Instruments and Equipment

☑ PRIMES Beam Quality Analyzer

Used to measure laser parameters and analyze beam quality.

☑ Lambda 750 UV-Vis-NIR Spectrophotometer

Used for spectral analysis of solid and liquid samples to obtain optical characteristics such as absorption, transmission, and reflection.

☑ Chotest Optical 3D Surface Profiler

Based on white light interferometry technology, it non-contactly acquires 3D surface features of samples.

☑ Mitutoyo High-Precision Measuring Instrument

Accurately measures dimensions, shapes, and other parameters of various parts.



Quality Control

Through multiple inspection processes, we strictly control quality from the source to ensure that every product is reliable.

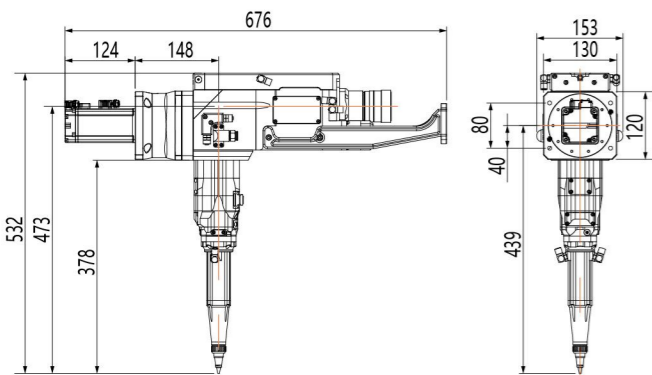
The entire process includes: warehouse acceptance, order material distribution, parts cleaning, assembly in a dust-free workshop, semi-finished product inspection, aging tests, lens assembly, performance testing, parameter recording and sample archiving, lens inspection, finished product inspection, and final finished product warehousing.



Product Function Introduction

Function Name	LCF08A1	LCF15A1	LCF20A1
Temperature monitoring of focusing lens	×	√	√
Temperature monitoring of upper protective lens	√	√	√
Temperature monitoring of lower protective lens	√	√	√
Cutting Air Pressure Monitoring	√	√	√
Gas Leak Monitoring	√	√	√
Anti-collision Function	√	√	√
Bluetooth Communication	√	√	√
Ethercat Communication	×	√	√
Process Monitoring (Requires System Integration)	√	√	√
Air Circuit Closed Loop (Requires System Integration)	√	√	√
Plug-in Type Lens	√	√	√

Installation Dimensions



Product Parameter

Product Model	LCF08A / LCF15A / LCF20A
Applicable Power	8kW / 15kW / 20kW
Applicable Wavelength	1080nm
Collimation Length	100mm
Focus Length	200mm/250mm/300mm
Focus Speed	200mm/s
Focus Range (F200)	-35mm~+30mm
Focus Range (F250)	-55mm~+50mm
Focus Range (F300)	-75mm~+65mm
centering Range	±1.5mm
Overall Weight	9kg~10kg

Bevel Cutting, Easier Than Ever
Tube&Profile Processing Solutions

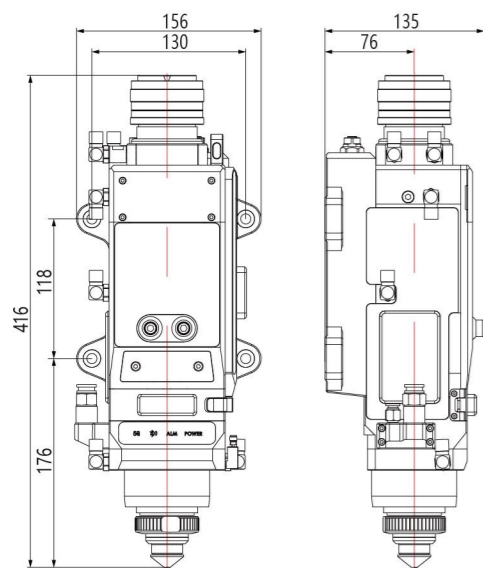
- "Ultra-Sharp" & "Long Enough"
Effortlessly handles 500mm profile bevel cutting.
- Collision Protection, Worry-Free Processing
Brittleness protection for sensors, zero-damage collision, rapid recovery.
- Stable Tracking, Consistently High Cutting Quality
Built-in capacitive amplifier ensures fast response & low interference.
- Multi-Scenario Intelligent Air Pressure Guardian
Leakage and low-pressure alerts ensure uninterrupted processing.
- EtherCAT Local Communication
Seamless CNC system integration for fully unified machine operation.
- 5G-Link IoT Digital System
Remote automatic fault reporting, precise and swift, making after-sales management easier than ever!



Product Function Introduction

Function Name	H-Series	Function Name	H-Series
Temperature monitoring of upper protective lens	√	Anti-collision function	√
Temperature monitoring of focus lens	√	nozzle temperature monitoring	√
Temperature monitoring of focus protective lens	√	Cartridge-in-place monitoring	√
Temperature monitoring of cutting protective lens	√	IoT communication	√
Astigmatism monitoring of upper protective lens	√	Perforation monitoring (with system required)	√
Astigmatism monitoring of lower protective lens	√	Process monitoring (with system required)	√
Cutting gas pressure monitoring	√	Gas circuit close loop (with system required)	√
O-seal ring failure monitoring	√	Plug-in Type Lens	√

Installation Dimensions



Product Parameter

Product Model	GH15B0 / GH20B0 / GH30B0
Applicable Power	15kW / 20kW / 30kW
Applicable Wavelength	1080nm
Collimation Length	100mm
Focus Length	200mm/250mm/300mm
Focusing Speed	200mm/s
Focus Range	-43mm~+25mm (F200)
Centering Range	±1.5mm
Gas Pressure	≤3MPa
Overall Weight	7kg~7.5kg

Challenges in Thick Plate Cutting?
5G Intelligent Monitor to the Rescue!



- **Post-Sale Services Reduce Costs and Increase Efficiency**
Through the 5G-link full-domain service system, remote intelligent early warning and protection are provided.

🔔 Early Warning

Prevents potential anomalies from escalating into faults resulting in equipment downtime, parts replacement, and increased costs related to on-site services.

🔔 Fault Reporting

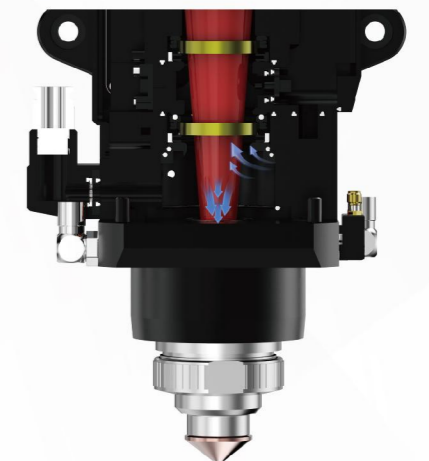
Reduces repetitive inefficient post-sale communications, enhancing service quality and efficiency.

- **● Lens Contamination Monitoring and Alarm.**

Pre-alerts remind the user to replace lenses, and alarms automatically stop the machine to prevent poor cuts and laser head damage.

- **● Gas Leakage Monitoring and Alarm**

Alerts the user for timely maintenance and replacement of parts to prevent internal lens contamination.



- **● Nozzle Temperature Real-Time Monitoring**

Timely shutdown, notifying users to check for faults, avoiding poor processing quality.

- **● Collision Protection: Safe and Reliable**

Automatically breaks upon collision, protecting the cutting head and simultaneously triggering a machine shutdown signal.



Product Function Introduction

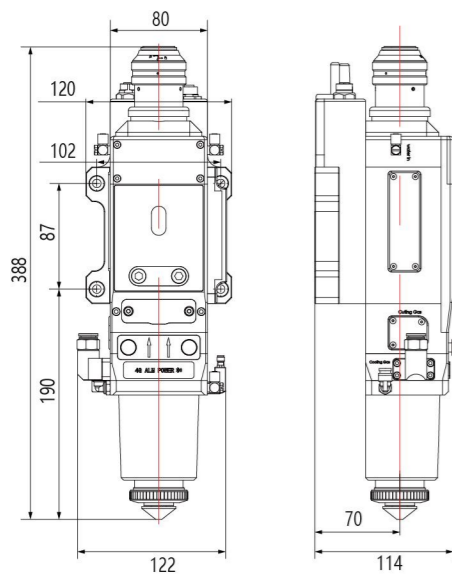
Function Name	GM08B0	GM15B0
Temperature monitoring of upper protective lens	✓	✓
Astigmatism monitoring of lower protective lens	✓	✓
Temperature monitoring of cutting protective lens	✓	✓
Sensor cooling	✓	✓
Cutting gas pressure monitoring	✓	✓
Anti-collision function	✓	✓
Nozzle cooling	✓	✓
IoT communication	✓	✓
Process monitoring (with system required)	✓	✓
Gas circuit close loop (with system required)	✓	✓
Plug-in Type Lens	✓	✓

Cutting Thick Plates, Cutting Profile Steel, M-Series – Born to Perform

- 5G Communication Module (Optional)**
 Optional 5G communication module enables real-time remote data feedback.
- Insert Block Design for Easy Maintenance**
 Drawer-style structure allows quick assembly and disassembly, minimizing downtime.
- Contamination Monitoring and Alarm Feedback**
 Provides early warnings to remind users to replace lenses; triggers automatic shutdown during alarms to prevent poor cutting quality and laser head damage.
- Real-Time Gas Pressure Monitoring**
 Continuously monitors gas pressure to ensure efficient and stable processing.
- Collision Protection for Worry-Free Operation**
 Sensor-based brittle protection allows non-destructive collisions and quick recovery for rapid production resumption.



Installation Dimensions



Product Parameter

Product Model	GM08B0 / GM15B0
Applicable Power	8kW / 15kW
Applicable Wavelength	1080nm
Collimation Length	100mm
Focus Length	150mm/200mm/250mm
Focusing Speed	100mm/s
Focus Range	-35mm~+33mm (F200)
Centering Range	±1.5mm
Gas Pressure	≤3MPa
Overall Weight	5kg~5.5kg



Product Function Introduction

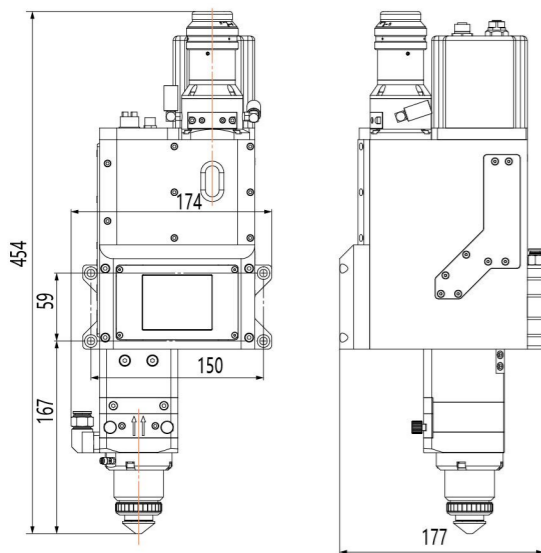
Function Name	LDC40A0	LDC80A0
Temperature monitoring of upper protective lens	√	√
Temperature monitoring of lower protective lens	√	√
Collimation Focusing	√	√
Supports IO (Input/Output) Triggering	√	√
Servo Drive	√	√
Collimation Protection with Water Cooling	√	√
8 Types of Swing Patterns	√	√
Vibration Amplitude (0-5 mm)	√	√
Plug-in Type Lens	√	√

Facing High-Reflective Challenges Head-On, Cutting and Welding Integration – Fast, Accurate, and Stable

- Fearless Efficiency Boost on High-Reflective Materials**
Easily handles high-reflective materials, significantly reducing processing time.
- Contamination Monitoring and Alarm Feedback**
Alerts users to replace lenses upon warning and automatically shuts down during alarms to prevent poor cutting quality and laser head damage.
- Eight Selectable Graphic Trajectories**
Flexible switching of graphic paths to meet diverse processing needs.
- Efficient Water Cooling for Stable Operation**
Full machine water cooling ensures long-term stable performance.
- Insert Block Design for Easy Maintenance**
Drawer-style structure allows quick assembly and disassembly, minimizing downtime.



Installation Dimensions



Product Parameter

Product Model	LDC40A0 / LDC80A0
Applicable Power	4kW / 8kW
Applicable Wavelength	1080nm
Collimation Length	100mm
Focus Length	150mm/200mm
Focus Range	-15mm~+15mm (4kW) -30mm~+30mm (8kW)
Wobble Speed	< 4000mm/s
Centering Range	±1.5mm
Gas Pressure	≤3MPa
Overall Weight	8.6kg~11.5kg



Product Parameter

Product Model	GS03C
Applicable Power	3kW
Applicable Wavelength	1080nm
Collimation Length	100mm
Focus Length	125mm/150mm/200mm
Focus Range	-18mm ~ +15mm
Centering Range	±1.5mm
Gas Pressure	≤3Mpa
Overall Weight	3.3kg

Lightweight and Agile, High Responsiveness, Plate and Pipe Processing – Stable and Reliable

- Insert Block Design for Easy Maintenance**
 Drawer-style structure enables quick assembly and disassembly, reducing downtime.
- Compact Size, Lightweight, Low Inertia, High Rigidity**
 Minimizes inertia impact in multi-axis applications, lowers motor requirements, and achieves precise, high-speed positioning.
- Collision Protection for Worry-Free Processing**
 Sensor-based brittle protection allows non-destructive collisions and rapid recovery.
- Front-Positioned Drive to Lower Center of Gravity**
 Shortens distance from mounting surface to optical axis, saving on remnant material.
- Multi-Directional Interface Design for Complex Scenarios**
 Flexible adjustment of interface directions to meet diverse equipment layout needs.





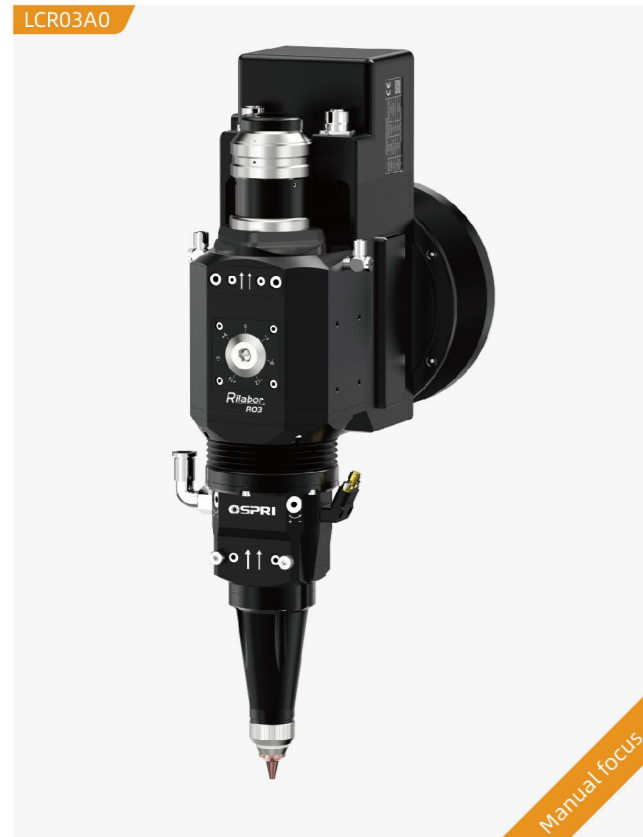
Product Parameter

Product Model	LCN03A	LCN08A	
Applicable Power	3kW	8kW	
Applicable Wavelength	1080nm	1080nm	
Collimation Length	100mm	100mm	
Focus Length	125mm/150mm	150mm	200mm
Focus Range	-7mm~+6mm	-10mm ~ +10mm	-18mm ~ +18mm
Centering Range	±1mm	±1.5mm	
Gas Pressure	≤3Mpa	≤3Mpa	
Overall Weight	2kg	3kg	

Specialized in Pipe Cutting
Zero-Error Cutting, Super Easy

- **Enhanced Dust Protection With Press-to-Close Cover**
Effectively blocks dust ingress, extending lens service life.
- **Lightweight and Compact Structural Design**
The whole unit is lightweight, facilitating installation and integration.
- **Interference-Free Design for Minimal Scrap**
Optimizes cutting space and improves material utilization.
- **Collision Protection with Impact Reset**
Quickly restores working status, reducing equipment maintenance costs.
- **Contamination Monitoring and Alarm Feedback**
Alerts users to replace lenses upon warning and automatically shuts down during alarms to prevent poor cutting quality and laser head damage.
- **Precision Cutting Machine with Built-in Capacitive Sensors**
Enhances signal transmission to ensure stable cutting follow-up.





Enclosed Module, Lightweight and Ready, High-Speed Precision, One-Step Completion

- Reset Mechanism: Precise Positioning**
 Three-point conical positioning. Accurately returns to the initial position after a collision.
- Built-in Follow-Up: Fully Sealed, High Response**
 Closed built-in follow-up module with a compact structure. Dustproof, precise, and high-speed following.



Product Parameter

Product Model	LCR03A0		LCR04A0
Applicable Power	4kW		4kW
Applicable Wavelength	1080nm		1080nm
Collimation Length	75mm		75mm
Focus Length	125mm	150mm	150mm
Focus Range	-8mm ~ +6mm	-14mm ~ +10mm	-24mm ~ +20mm
Centering Range	±1.5mm		±1.5mm
Repeated Positioning Accuracy of Focusing Axis	0.1mm		0.05mm
Follow-up Stroke	27mm		27mm
Follow-up Speed	≤250mm/s		≤250mm/s
Gas Pressure	≤3Mpa		≤3Mpa
Overall Weight	5.5kg		7kg



- QBH Water Cooling: Efficient Cooling**
 Prevents condensation on cutting head lenses, maintaining stable long-term processing.

- Collision Protection: Safe and Reliable**
 Equipped with a collision signal flexible protection mechanism and sensors with specialized fragile screws. Automatically breaks upon collision to protect the cutting head and simultaneously sends a collision shutdown signal.
- Collision Emergency Stop for Safe Production**
 After a collision, the control system quickly cuts off power to prevent further damage.



Say Goodbye to Interference
Smooth Bevel Cutting of Bent Pipes
Without Jamming

- **Protective Lens with Oil-Resistant Coating Extends Service Life**
 Reduces replacement frequency and ensures stable cutting quality.
- **Z-Shaped Structure Design for Interference-Free Processing**
 Suitable for cutting irregular-shaped pipes, enhancing processing flexibility.
- **Sealed Protective Lens Prevents Dust, Reduces Maintenance**
 Lowers cleaning frequency and ensures stable cutting operation.
- **Manual Collimation and Focusing for Precise Alignment**
 Shortens setup time and improves cutting accuracy and efficiency.

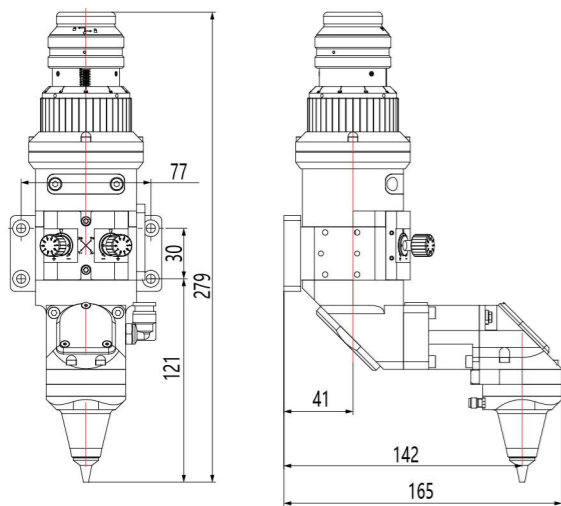


Rotary Focusing for Precision Control,
Consistently Outstanding Cutting Quality

- **Minimum 75mm Focal Length**
 Enables short-distance processing to meet compact space requirements and expand cutting application scenarios.
- **Fine Adjustable Scale Range**
 With a minimum scale of 0.1mm and an adjustable range of 6mm, achieves precise cutting of small dimensions.
- **Rotary Focusing for Precision Adjustment**
 Flexible control of focal position ensures cutting depth and quality.
- **Independent Focusing Structure with Beam Concentricity**
 Prevents optical path deviation, ensuring cutting accuracy and stability.
- **Protective Window as an Independent Module for Easy Replacement**
 Reduces downtime and lowers maintenance complexity.



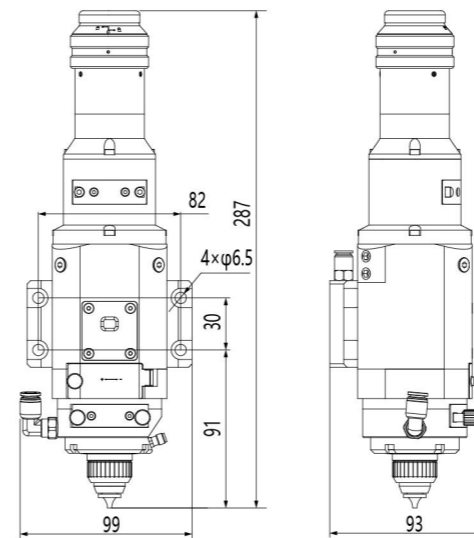
Installation Dimensions



Product Parameter

Product Model	LC207
Applicable Power	2kW
Applicable Wavelength	1080nm
Collimation Length	80mm
Focus Length	80mm
Focus Range	-5mm~+5mm
Gas Pressure	≤3MPa
Overall Weight	1.9kg

Installation Dimensions



Product Parameter

Product Model	LC119
Applicable Power	2kW
Applicable Wavelength	1080nm
Collimation Length	100mm/125mm
Focus Length	75mm
Focus Range	-3mm~+3mm
Gas Pressure	≤3MPa
Overall Weight	2kg

D-Series 3kW

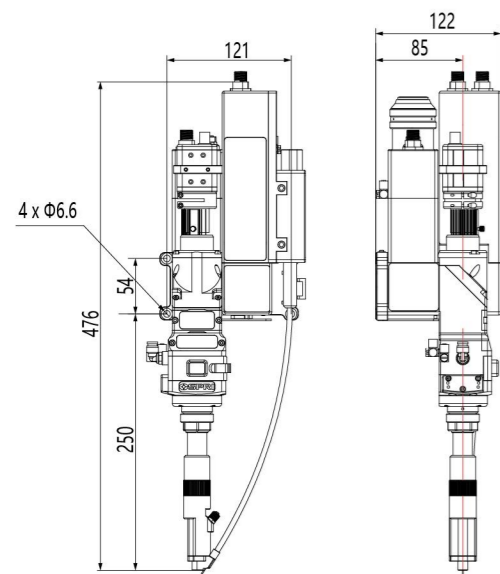
High-Precision Welding of
Dissimilar Materials



Product Function Introduction

Function Name	LWD03B0	LWD03C0
Collimation Protection with Water Cooling	√	√
Collimated Focusing	×	√
6 Types of Swing Patterns	√	√
Supports IO (Input/Output) Triggering	√	√
Wire Drawing Function	×	√
Wire Feeding Nozzle	×	√
Nozzle Side-Blowing for Slag Prevention	×	√
Protective Screws	√	√

Installation Dimensions



Product Parameter

Product Model	LWD03B0 / LWD03C0
Applicable Power	3kW
Applicable Wavelength	1080nm
Collimation Length	100mm
Focus Length	200mm/250mm/300mm
Focus Scanning Range	X:0~5mm Y:0~5mm
Wobble Speed	< 3500mm/s
Gas Blowing Method	Coaxial/Paraxial
Gas Pressure	≤1MPa
Overall Weight	2.4kg~3.9kg

Wobble, Significantly Increased Tolerance for Welding Variables. Wire Feeding, Easier than Ever.

- Integrated Wire Feeding System**

The wire feeding assembly is fully integrated, ensuring smooth delivery and rapid response.

- Wire Feeding Protective Gas Curtain Prevents Wire Jams**

Innovative nozzle design, integrated with air knife and anti-adhesion features.

- Collision Protection Ensures Worry-Free Processing**

Coaxial/air knife protection against breakage, allowing for no-damage collisions and quick recovery.

- Efficient Water Cooling Supports Stable Operation**

Full-body water cooling ensures continuous, stable performance over extended periods.

- Thermal Insulation Design reduces Temperature Rise**

The unique insulation layer effectively resists reflected heat.

Wide Seam Welding – Solid Strength, Dual-Axis Swing – Crafted Excellence



Product Function Introduction

Function Name	LWD08A0	LWD15A0
Temperature monitoring of upper protective lens	√	√
Temperature monitoring of lower protective lens	√	√
Collimation Focusing	√	√
Supports IO (Input/Output) Triggering	√	√
Servo Drive	√	√
Collimation Protection with Water Cooling	√	√
8 Types of Swing Patterns	√	√
Vibration Amplitude (0-5 mm)	√	√
Plug-in Type Lens	√	√

● **Intelligent Lens Temperature Monitoring and Protection**

Alerts users to replace the lens upon warning and automatically shuts down during alarms to prevent poor cutting quality and laser head damage.

● **Collision Protection for Worry-Free Processing**

Coaxial and air knife brittle protection enables non-destructive collisions and rapid recovery.

● **Efficient Water Cooling for Stable Operation**

Full machine water cooling ensures long-term stable performance.

● **High-Speed Servo for Precise Focusing**

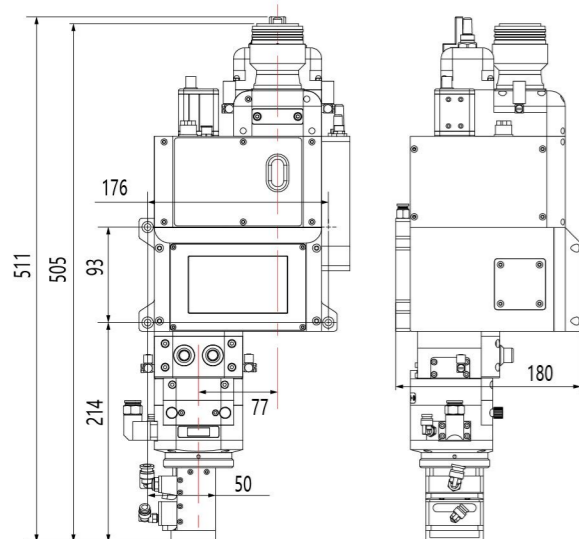
Suitable for complex processes with dynamic focal point adjustment.

● **Eight Graphic Trajectories Easily Selectable**

Flexible switching of graphic paths to meet diverse processing needs.



Installation Dimensions



Product Parameter

Product Model	LWD08A0 / LWD15A0
Applicable Power	8kW / 15kW
Applicable Wavelength	1080nm
Collimation Length	100mm
Focus Length	200/250/300/400/500(mm)
Focus Scanning Range	X:0~5mm Y:0~5mm
Wobble Speed	< 4000mm/s
Gas Blowing Method	Coaxial/Paraxial
Gas Pressure	≤1MPa
Overall Weight	8.9kg~11.8kg



Product Function Introduction

Function Name	W-Series
Supports Multiple Fiber Interfaces (QBH/QD/Q+/LOE3.2/G5)	√
Mechanical Spot Size Adjustment	√
Temperature monitoring of upper protective lens	√
Temperature monitoring of lower protective lens	√
Full Machine Water Cooling	√
Wobble Frequency (0~150Hz)	√
Wobble Width (0~4mm)	√
Plug-in Type Lens	√

High-Power Single Pendulum Welding Head

Precision Mechanism, Adjustable Light Spot

Circular adjustable mechanism with high-precision motor, low vibration and noise, smooth operation.

Expandable MIG Welding for Steel Structure Thick Plate Welding

Breaks through thickness limitations to meet complex engineering needs and reduce welding difficulty.

Pollution Monitoring, Alarm Feedback

Alarm shutdown, preventing poor welding and damage to the laser head.

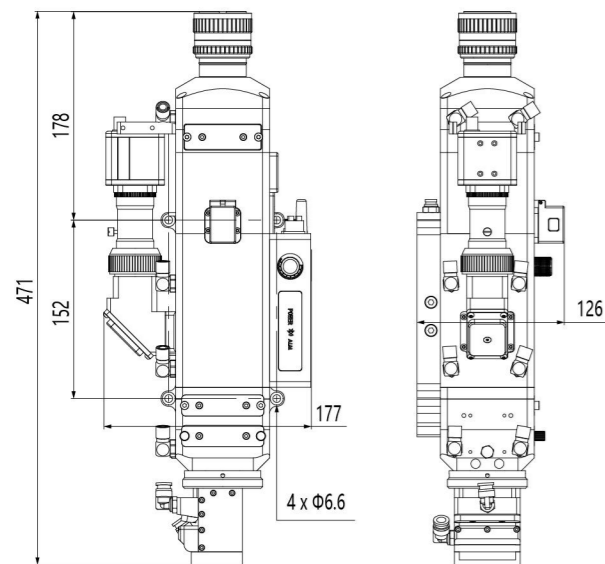
Collision Protection, Worry-Free Processing

Brittleness protection for sensors, zero-damage collision, rapid recovery.

Efficient Water Cooling, Stable Operation

Full-body water cooling effectively reduces temperature rise, ensuring long-term stable operation.

Installation Dimensions



Product Parameter

Product Model	LRW08A0 / LRW15A0 / LRW20A0
Applicable Power	8kW / 15kW / 20kW
Applicable Wavelength	1080nm
Collimation Length	100mm/150mm
Focus Length	150mm/200mm/250mm/300mm
Wobble Frequency	0~150Hz
Wobble Width	0~4mm
Gas Blowing Method	Coaxial/Paraxial
Gas Pressure	≤1MPa
Overall Weight	4.6kg



Product Function Introduction

Function Name	W-Series
Supports Multiple Fiber Interfaces (QBH/QD/Q+/LOE3.2/G5)	✓
Collimation Focusing	✓
Temperature monitoring of upper protective lens	✓
Temperature monitoring of lower protective lens	✓
Full Machine Water Cooling	✓
Plug-in Type Lens	✓

Composite Laser Welding Head, Compact and Spatter-Free, Smooth and Bright

• **Composite Welding Synergy Enhancement**

Dual-wavelength synergy of 1080nm + 915nm improves absorption of highly reflective materials like aluminum, achieving deep, bright, efficient, and high-quality welding.

• **Collision Protection for Worry-Free Processing**

Coaxial and air knife brittle protection enables non-destructive collisions and rapid recovery.

• **Spiral Structure for Precise Focusing**

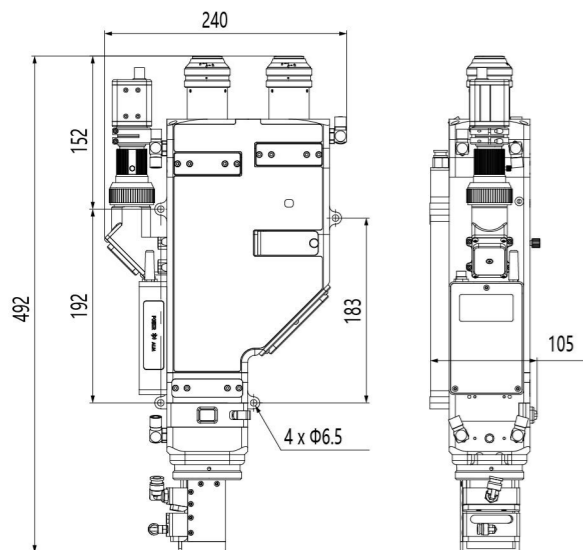
One full 360° rotation moves the focus by 1mm, allowing precise focal adjustment.

• **Contamination Monitoring and Alarm Feedback**

Automatic shutdown upon alarm to prevent welding defects and laser head damage.



Installation Dimensions



Product Parameter

Product Model	LWY08A0
Applicable Power	8kW
Applicable Wavelength	1080nm+915nm
Semiconductor collimation focal length	100mm
Fiber collimation focal length	100mm/150mm/200mm
Focus Length	200mm/250mm/300mm
Gas Blowing Method	Coaxial/Paraxial
Gas Pressure	≤1MPa
Overall Weight	9.6kg



Product Function Introduction

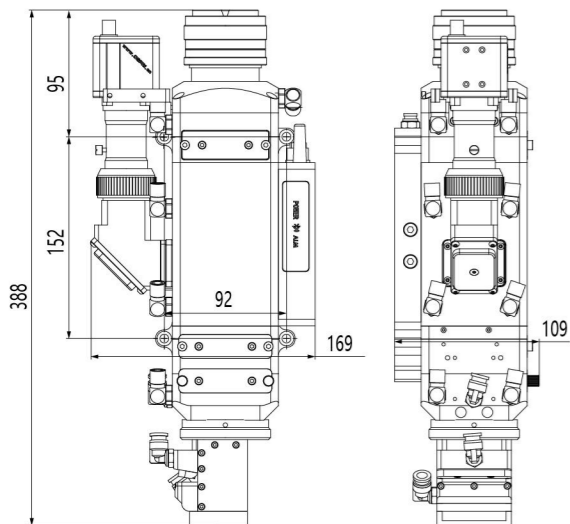
Function Name	W-Series
Supports Multiple Fiber Interfaces (QBH/QD/Q+/LOE3.2/G5)	✓
Bluetooth Communicator	✓
Temperature monitoring of upper protective lens	✓
Temperature monitoring of lower protective lens	✓
Full Machine Water Cooling	✓
Plug-in Type Lens	✓

Temperature Monitoring Warning with Double Protection, Smart Welding for Enhanced Safety

- Contamination Monitoring and Alarm Feedback**
 Automatic shutdown upon alarm to prevent welding defects and laser head damage.
- Collision Protection for Worry-Free Processing**
 Coaxial/air knife fragility protection ensures collision-free operation and quick recovery.
- Efficient Water Cooling for Stable Operation**
 Full machine water cooling guarantees long-term stable performance.
- Expandable MIG Welding for Steel Structure Thick Plate Welding**
 Breaks through thickness limitations to meet complex engineering needs and reduce welding difficulty.
- Large Depth-to-Width Ratio Deep Penetration Welding**
 Enhances welding strength, reduces material consumption, and improves welding efficiency.



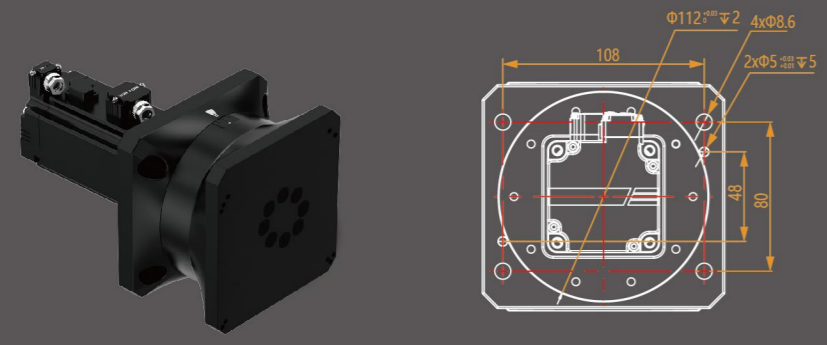
Installation Dimensions



Product Parameter

Product Model	LWT08A0 / LWT15A0 / LWT20A0
Applicable Power	8kW
Applicable Wavelength	1080nm
Collimation Length	100mm/150mm/200mm
Focus Length	200/250/300/400/500(mm)
Gas Blowing Method	Coaxial/Paraxial
Gas Pressure	≤1MPa
Overall Weight	4.6kg

Single Pendulum Axis (W02-HC-H01)



PRODUCT FEATURES

- ⚙️ Swing angle $\pm 60^\circ$
- ⚙️ Bevel cutting processing
- ⚙️ Servo motor
- ⚙️ High-precision processing

Applicable Scenarios: Bevel Cutting



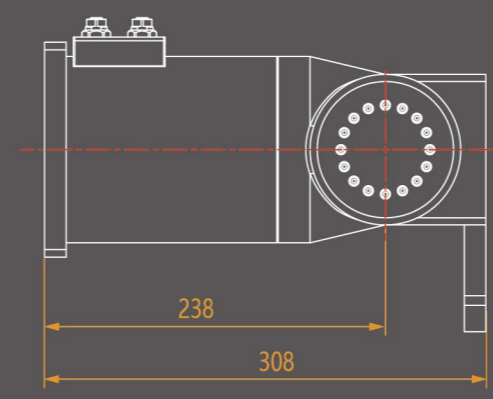
Flat Bevel Cutting Mechanism (AB01-LD-H01)



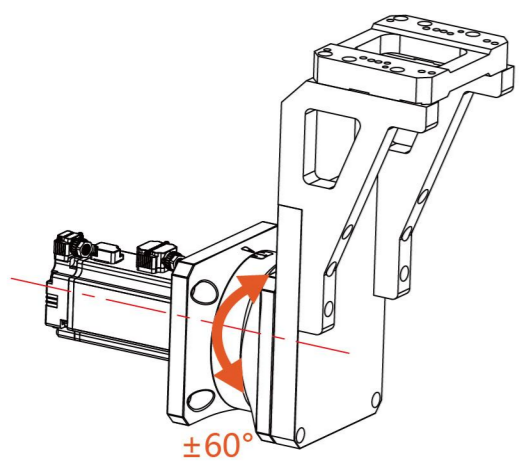
PRODUCT FEATURES

- ⚙️ A axis can rotate $\pm 45^\circ$
- ⚙️ B axis can rotate $\pm 90^\circ$
- ⚙️ Harmonic Drive Motor
- ⚙️ High-precision processing

Applicable Scenarios: Flat bevel processing



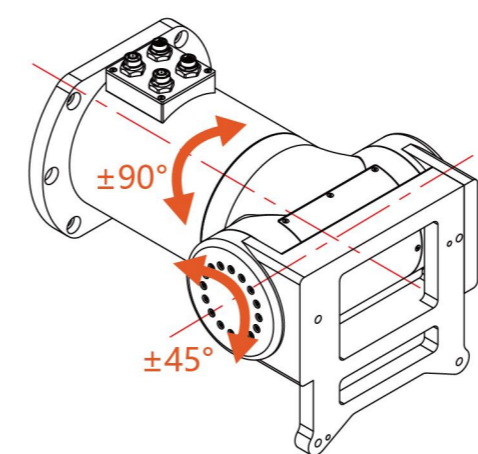
Rotation Angle



Product Parameter

Applicable Cutting Head	LCN03A2 / GS03C1 / F-Series
Motor Power	400W
Gearbox Reduction Ratio	1: 100
Swing Range	$\pm 60^\circ$
Rated Rotational Speed	30r/min
Angular Acceleration	240rad/s ²
Positioning Accuracy	1arcmin
Overall Weight	3.5kg

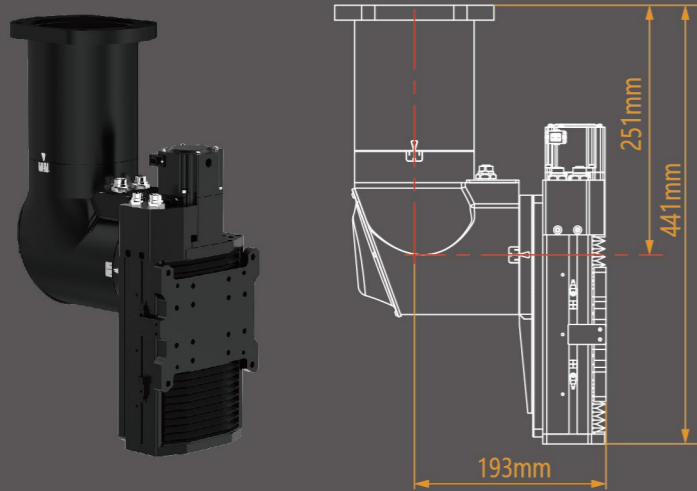
Rotation Angle



Product Parameter

Applicable Cutting Head	H-Series
Rated Torque of A-axis	58N·m
Rated Torque of B-axis	133N·m
Swivel Angle of A-axis	$\pm 45^\circ$
Swivel Angle of B-axis	$\pm 90^\circ$
Repetitive Positioning Accuracy of A & B axes	± 7 Arcsec
Rated Speed of A-axis	26r/min
Rated Speed of B-axis	25r/min
Overall Weight	11kg

3D Mechanism (ACU03-PC-H01)



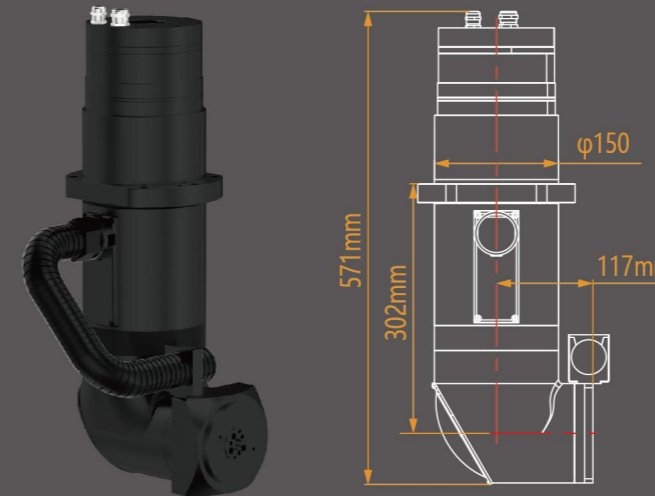
PRODUCT FEATURES

- ⚙️ A axis can rotate $\pm 100^\circ$
C axis can rotate $\pm 200^\circ$
- ⚙️ With U-axis follower module
- ⚙️ Precise Harmonic Drive Motor+Servo motor
- ⚙️ High-precision processing

Applicable Scenarios: Profile steel processing, hot-formed steel processing, 3D sheet metal processing



3D 5-axis (AC01-LD-H03)



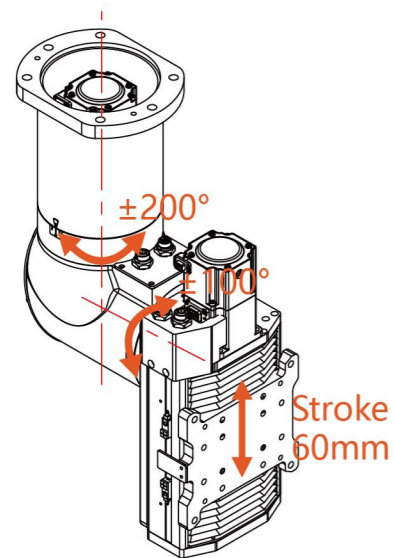
PRODUCT FEATURES

- ⚙️ A-axis can rotate $\pm 100^\circ$, and the C-axis can rotate $\pm 360^\circ$. The QBH fiber can pass through the center of the C-axis
- ⚙️ Harmonic Drive Motor
- ⚙️ High-precision processing

Applicable Scenarios: 3D sheet metal processing, hot-formed steel processing



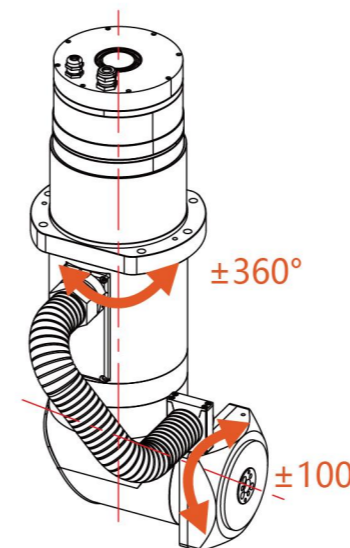
Rotation Angle



Product Parameter

Applicable Cutting Head	M-Series / H-Series
Rated Torque of A & C axes	100N·m
Rated Speed of A & C axes	37r/min
Positional Accuracy of A & C axes	1arcmin
Reduction Ratio of A & C axes	81
Action Range of A-axis	$\pm 100^\circ$
Action Range of C-axis	$\pm 200^\circ$
Repetitive Positioning Accuracy of U-axis	< 0.01mm
Stroke of U-axis	60mm
Maximum Speed of U-axis	250mm/s
Overall Weight	13.5kg

Rotation Angle



Product Parameter

Applicable Cutting Head	LCR03A0 / LCR04A0
Rated Torque of A-axis	58N·m
Rated Torque of C-axis	190N·m
Swivel Angle of A-axis	$\pm 100^\circ$
Swivel Angle of C-axis	$\pm 360^\circ$
Repetitive Positioning Accuracy of A & C axes	± 7 Arcsec
Rated Speed of A-axis	26r/min
Rated Speed of C-axis	23r/min
Overall Weight	17kg



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