

WSX LASER_ | Q

WSX

PROFESSIONAL MANUFACTURER OF
FIBER LASER HEAD

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Shenzhen Worthing Technology Co., Ltd.

COMPANY PROFILE

As a leading laser head manufacturer, Shenzhen Worthing Technology Co., Ltd. is a high-tech enterprise focusing on fiber cutting head and fiber welding head since establishment in 2006. We are a member of Guangdong Laser Industry Association and Shenzhen Laser Intelligent Manufacturing Industry Association as well.

We have always strictly managing the company's production, R&D and operation, developing a standardized management full with the international advanced standard, and obtained ISO9001: 2015 quality management system certification.

We are keeping promoting innovation in products and services enjoying a excellent reputation in the industry. We will continue to uphold the "innovation, service, and efficiency" concept, promoting manufacturing transformation and upgrading, and creating a better tomorrow with our customers!



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PART 1 CUTTING HEAD

SAMPLE DISPLAY

Carbon steel		
Aluminum		
Thick		
Thin		

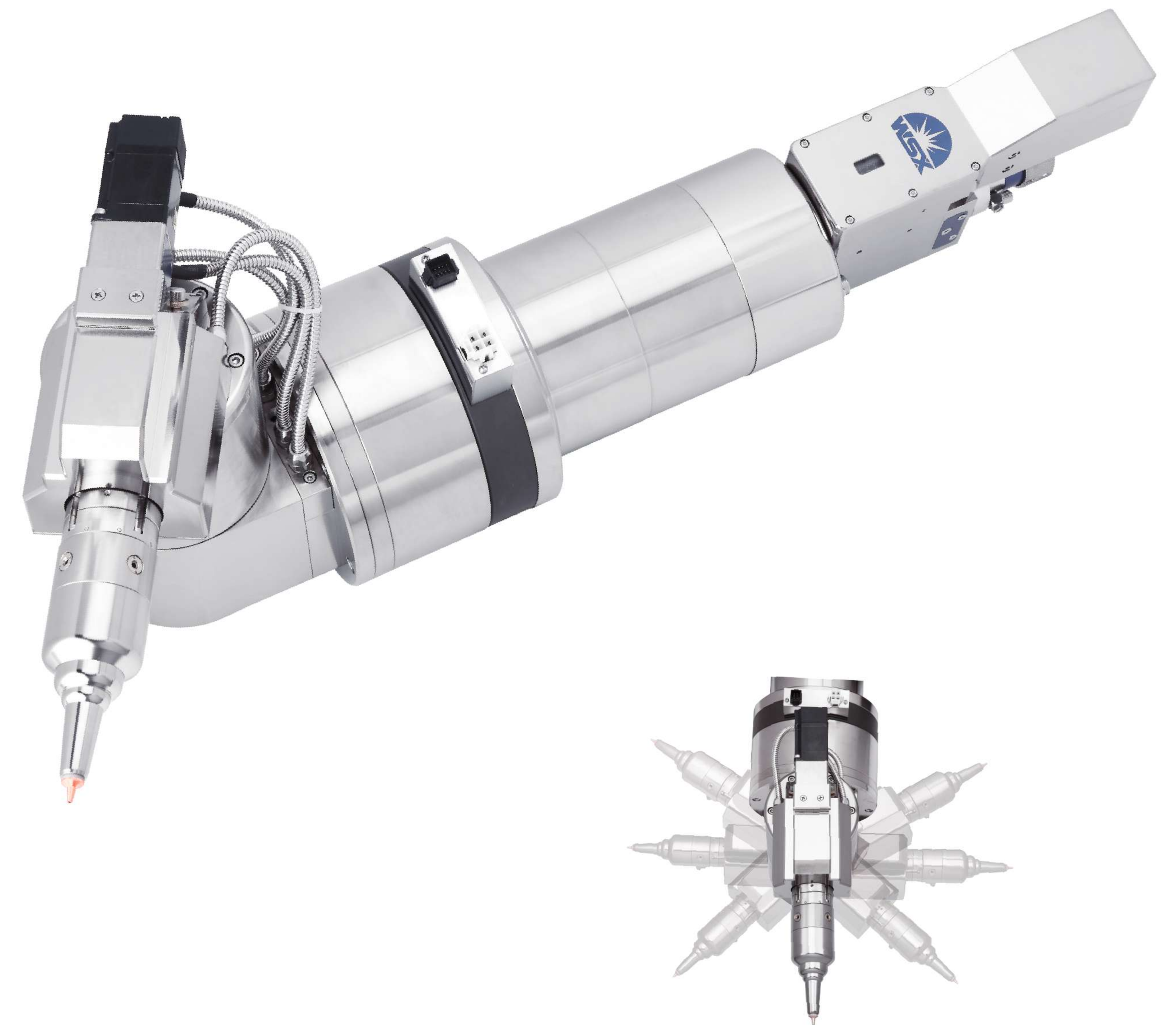
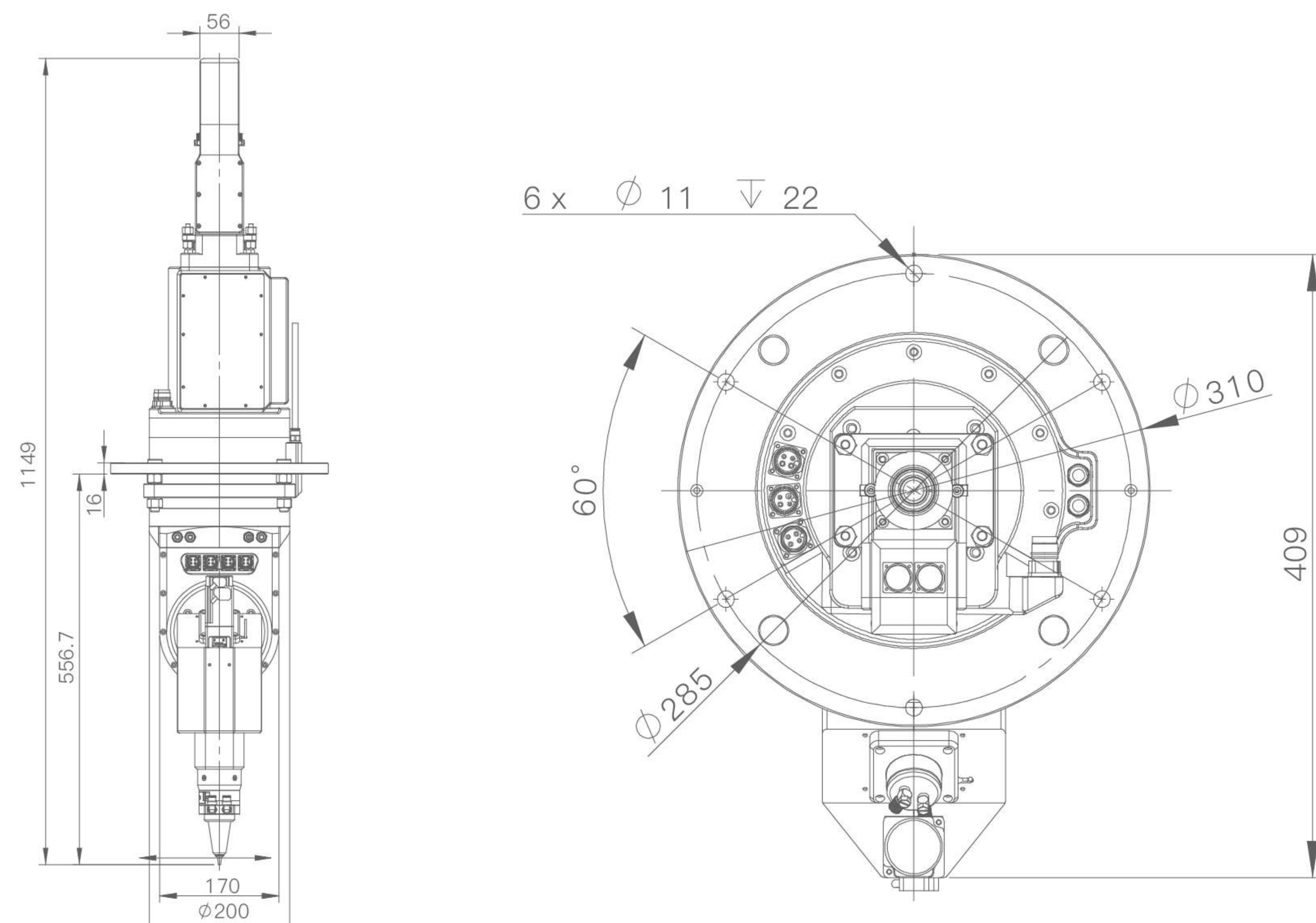
3D30

3DCutting Head

PRODUCT FEATURES

- Using DD Motor to ensure stable and accurate long-term Operation.
- Widely used to various three-dimensional processing application.
- Fit for various laser sources
- Anti-collision function
- Max laser power $\leq 3000W$

PRODUCT SIZE



PRODUCT PARAMETERS

Max Gas Pressure	25Bar	Horizontal Adjustment Rang	$\pm 1.5mm$	Standard speed	80r/min
Collimating Focal length	100mm	Vertical Adjustment Range	$\pm 10mm$	Gross weight	30kg
Focusing Focal Length	125mm/150mm	Range of Rotation Axis2	$\pm 135^\circ$	Effective Aperture	25mm
Position accuracy	<20arc sec	Rotary axis 1 rotation range	360°		

NC150

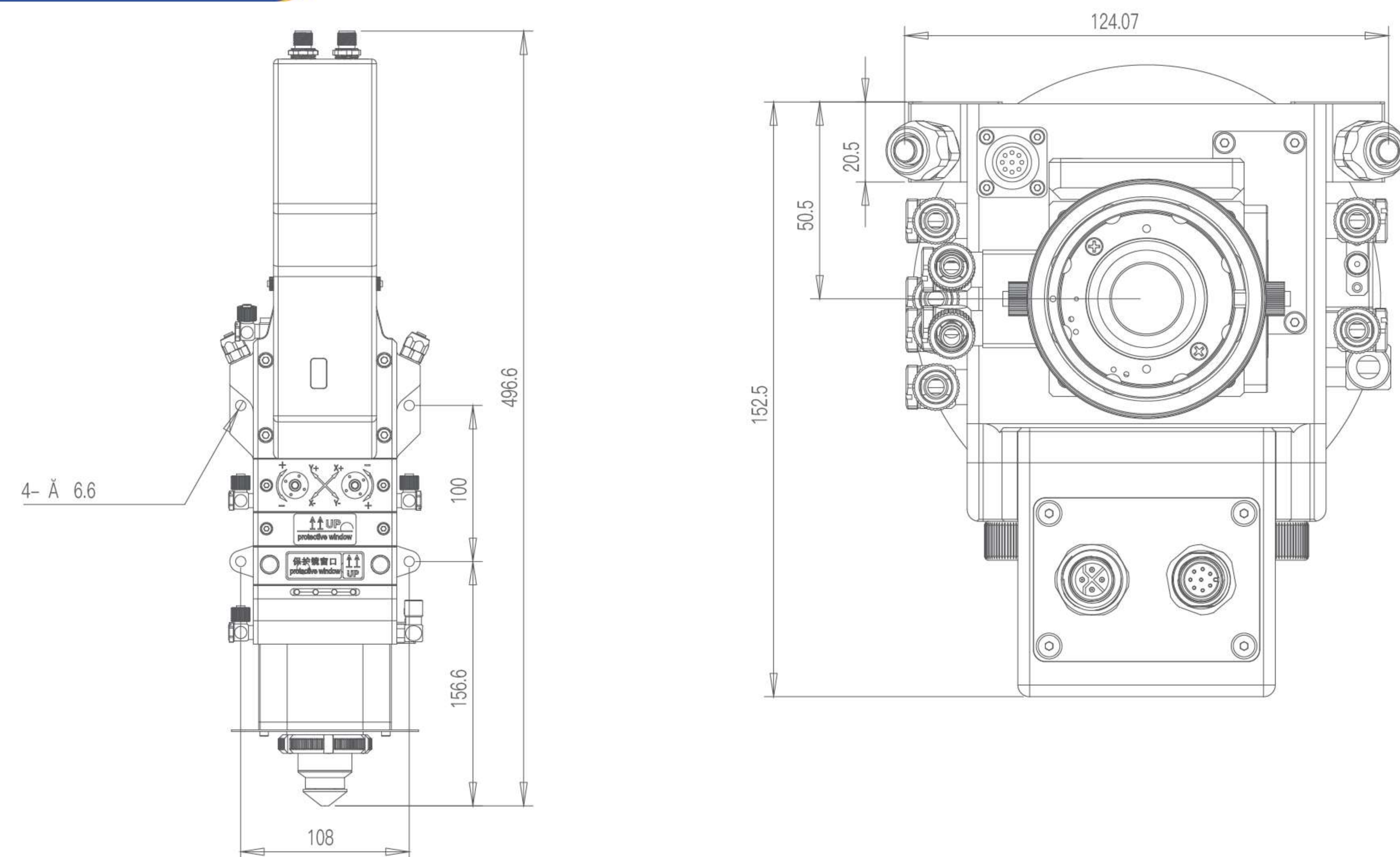
Fiber Autofocus Cutting Head

PRODUCT FEATURES

- Fast focusing: using precise focusing structure, precise and fast servo motor control system, significantly improve the perforation efficiency.
- Status monitoring: Built-in monitoring sensors such as temperature, light intensity and air pressure can monitor the running status of the cutting head in real time; if the status is abnormal, an alarm signal can be output in time to ensure the safe and stable operation of the cutting head.
- Efficient cooling: The cavity is designed with water cooling and air cooling, which can effectively avoid the problem of poor cutting caused by abnormal temperature.
- High sealing: The internal structure is highly sealed, which can prevent the optical lens from being polluted by the external environment and prolong the service life of the lens.
- Stable optical configuration and balanced and smooth airflow structure significantly improve cutting efficiency and cutting quality.



PRODUCT SIZE



PRODUCT PARAMETERS

Max Gas Pressure	25Bar	Horizontal Adjustment Rang	±1.5mm	Effective Aperture	32mm
Collimating Focal length	100mm	Vertical Adjustment Range	-16mm~+20mm	Gross weight	7.5kg
Focusing Focal Length	200mm	Applicable power	≤ 15KW		

NC30F

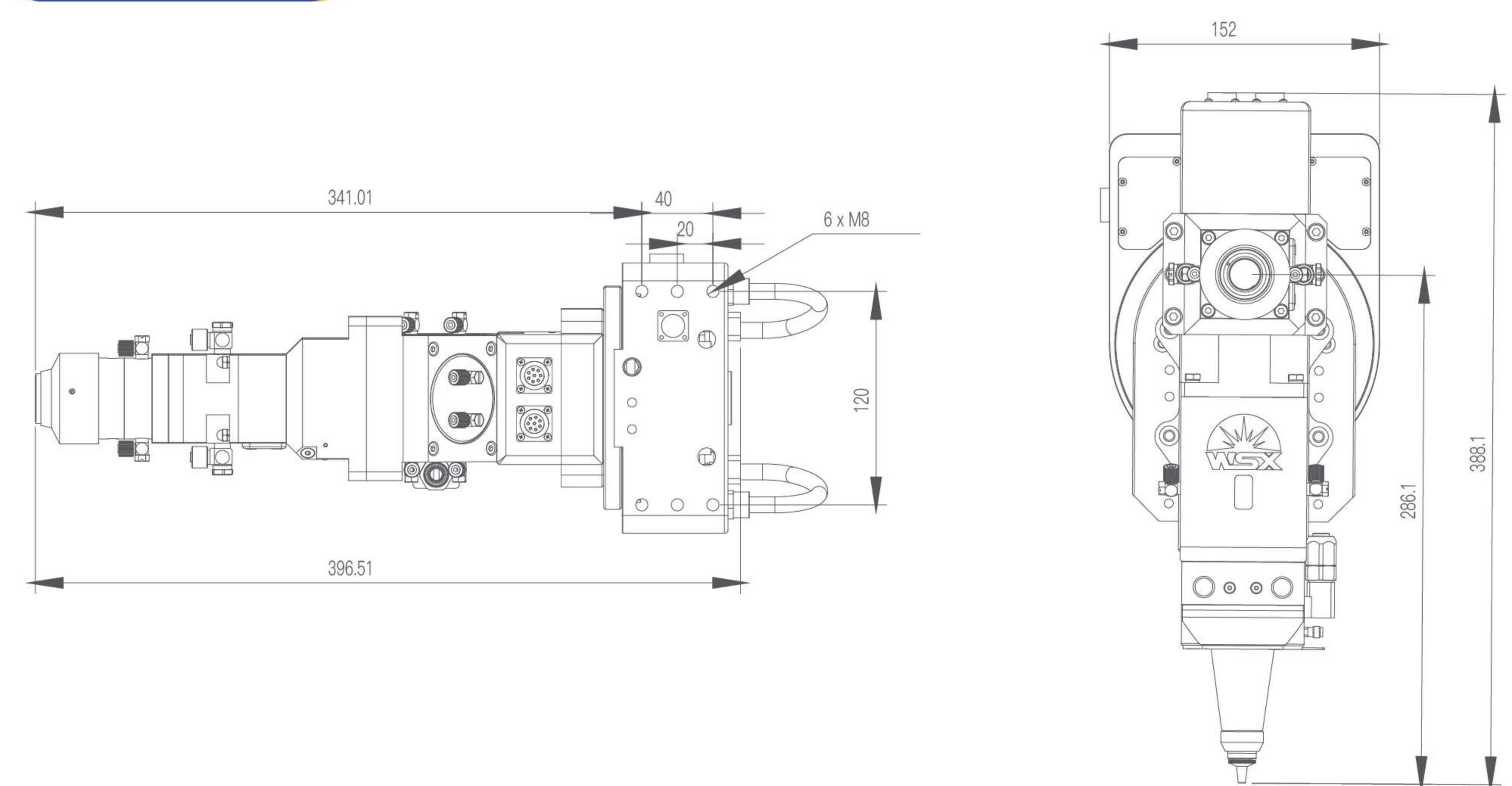
Swing cutting head

PRODUCT FEATURES

- Using DD Motor to ensure stable and accurate long-term Operation.
- Widely used to various three-dimensional processing application.
- Automatic focus position adjustment.
- Convenient change protective window.



PRODUCT SIZE



PRODUCT PARAMETERS

Max Gas Pressure	25Bar	Horizontal Adjustment Rang	±1.5mm	Effective Aperture	25mm
Collimating Focal length	F75/F100	Vertical Adjustment Range	±8mm	Gross weight	12kg
Focusing Focal Length	F150/F190	Applicable power	≤ 3000W		



NC63A

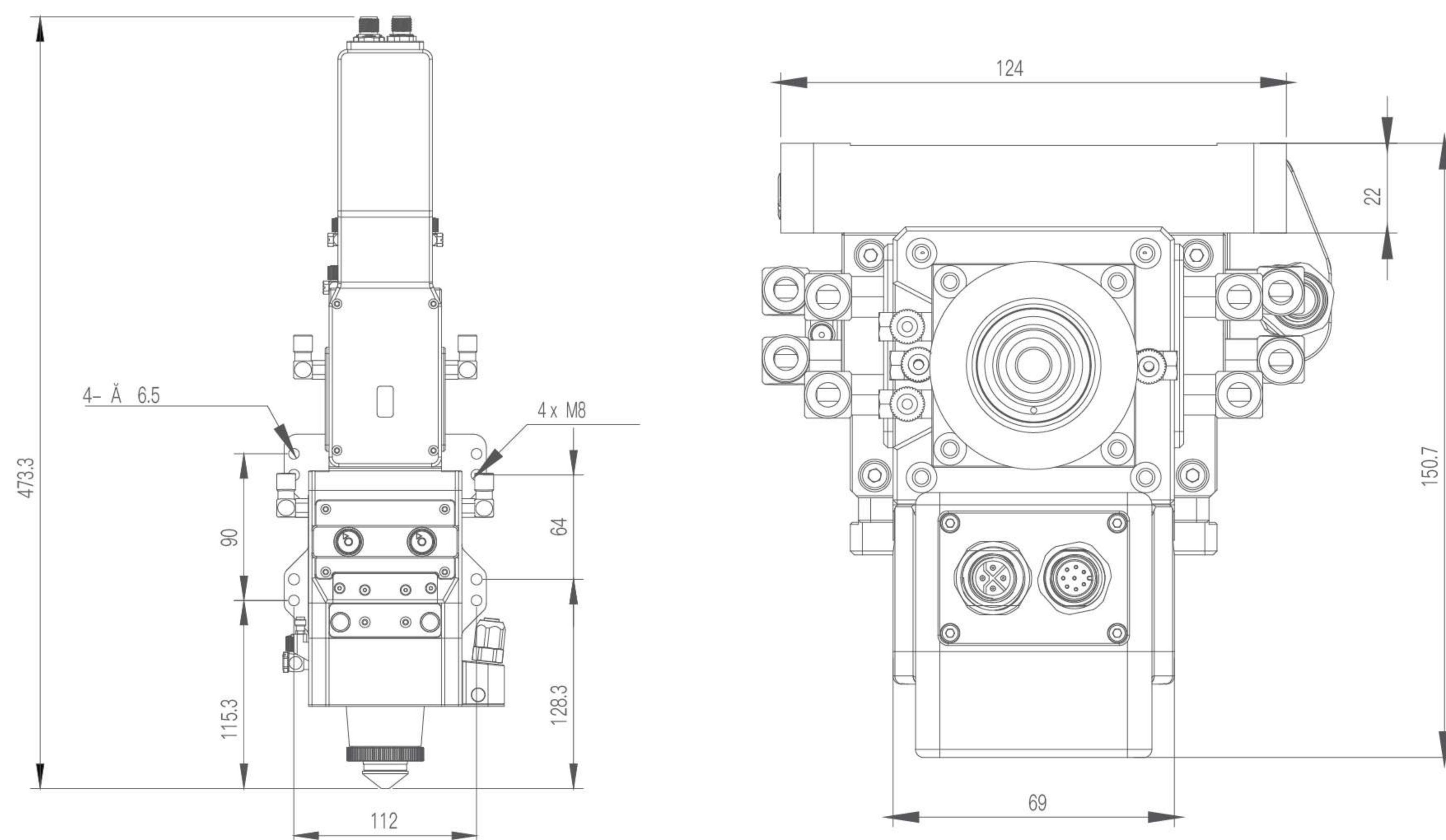
6000W Fiber Autofocus Cutting Head

PRODUCT FEATURES



- Automatic focus position adjustment.
- Focus position displayed in front.
- Completely sealed optical structure.
- Easy two-point alignment adjustment.
- Convenient change protective window.
- High efficiency of piercing.
- Fiber connector: QBH/QD/G5 QBH, etc.

PRODUCT SIZE



PRODUCT PARAMETERS

Max Gas Pressure	25Bar	Horizontal Adjustment Rang	±1.5mm	Effective Aperture	32mm
Collimating Focal length	F100	Vertical Adjustment Range	±25mm	Gross weight	7.8kg
Focusing Focal Length	F150/F200	Applicable power	≤ 6000W		



NC63C

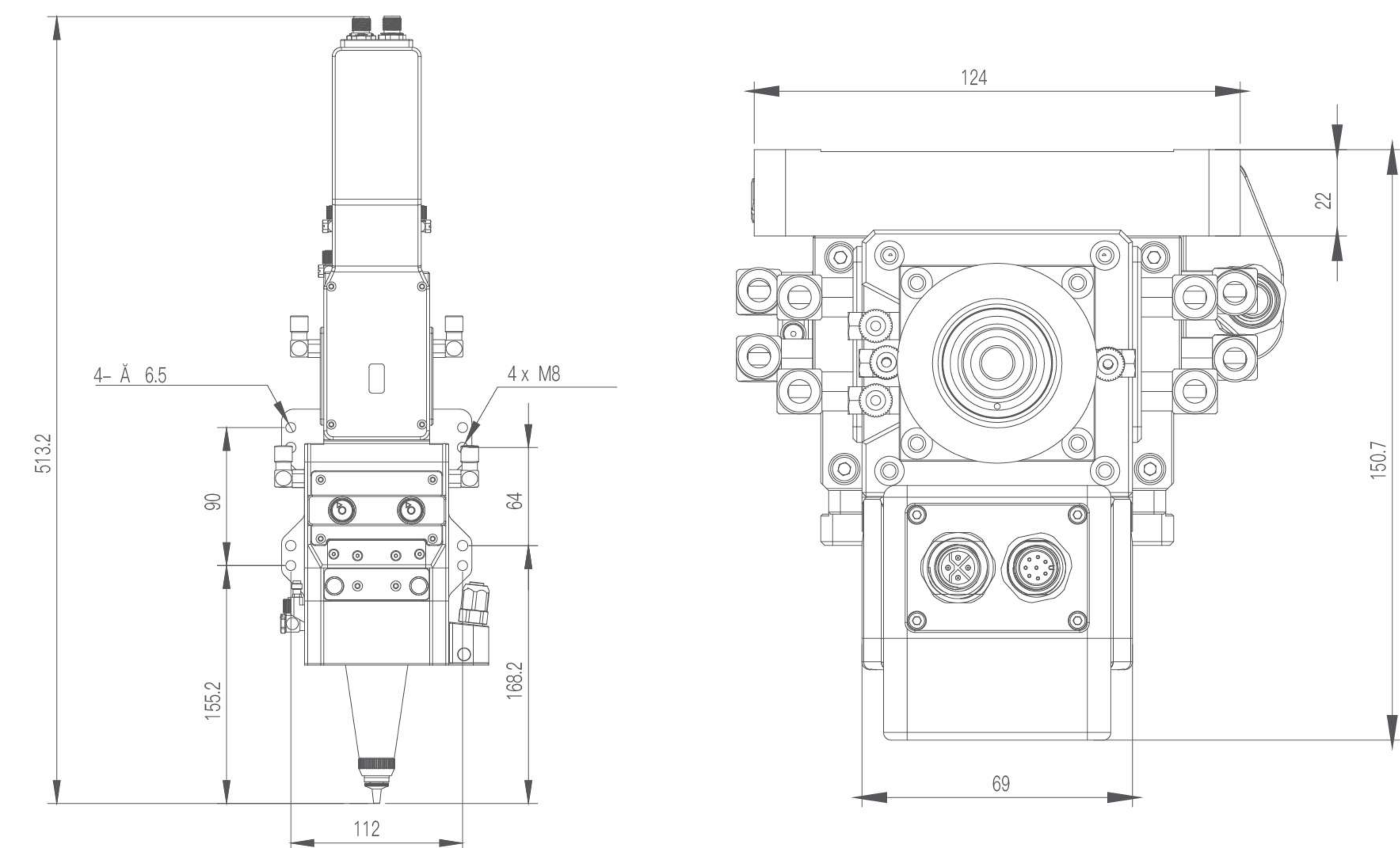
6000W Fiber Autofocus Cutting Head

PRODUCT FEATURES



- Automatic focus position adjustment.
- Focus position displayed in front.
- Completely sealed optical structure.
- Easy two-point alignment adjustment.
- Convenient change protective window.
- High efficiency of piercing.
- This model is suitable for cutting channel steel, I-beam and other narrow space conditions.

PRODUCT SIZE



PRODUCT PARAMETERS

Max Gas Pressure	25Bar	Horizontal Adjustment Rang	±1.5mm	Effective Aperture	32mm
Collimating Focal length	F100	Vertical Adjustment Range	±25mm	Gross weight	7.5kg
Focusing Focal Length	F150/F200	Applicable power	≤ 6000W		



NC30A/E

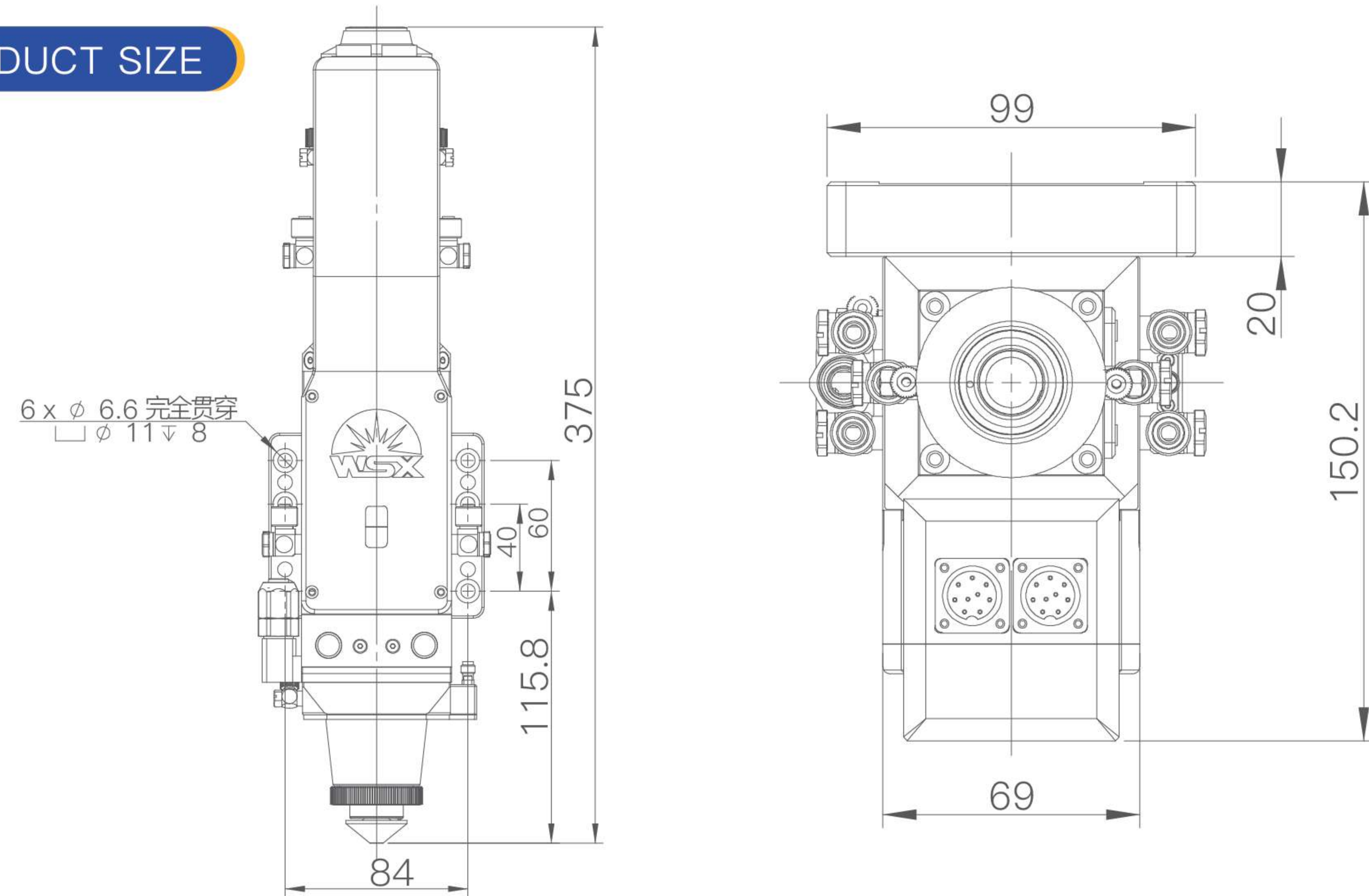
Fiber Autofocus Cutting Head

PRODUCT FEATURES

- Automatic focus position adjustment.
- Focus position displayed in front.
- Completely sealed optical structure.
- Easy two-point alignment adjustment.
- Convenient change protective window.
- High efficiency of piercing.
- Optional different motor configurations.



PRODUCT SIZE



PRODUCT PARAMETERS

Max Gas Pressure	25Bar	Horizontal Adjustment Rang	±1.5mm	Effective Aperture	25mm
Collimating Focal length	F75/F100	Vertical Adjustment Range	±8mm	Gross weight	5.5kg
Focusing Focal Length	F125/F150/F190	Applicable power	≤ 3000W		



NC30C

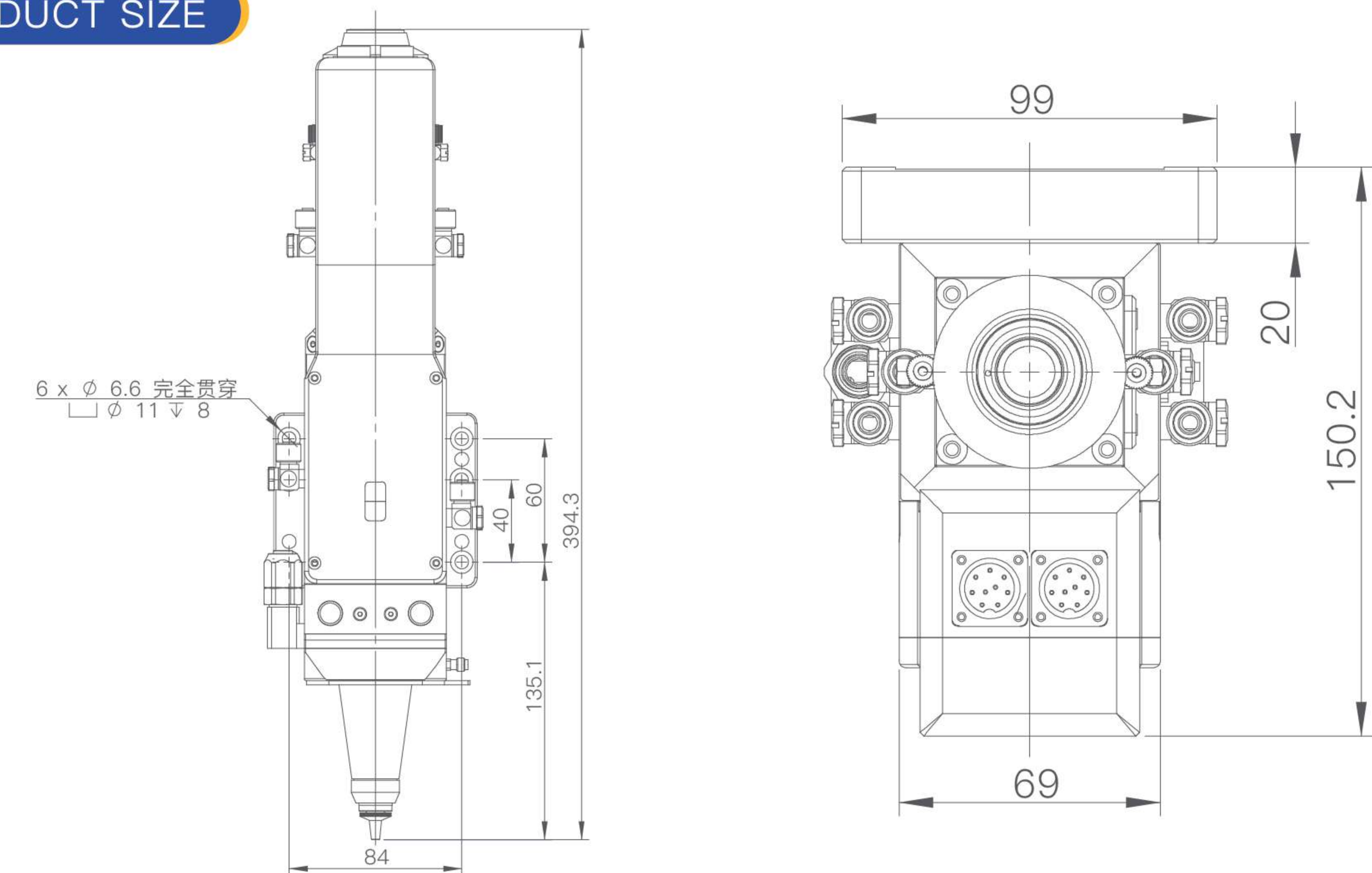
Fiber Autofocus Cutting Head

PRODUCT FEATURES

- Automatic focus position adjustment.
- Focus position displayed in front.
- Completely sealed optical structure.
- Easy two-point alignment adjustment.
- Convenient change protective window.
- High efficiency of piercing.
- This model is suitable for cutting pipe, channel steel, I-beam and other narrow space conditions.



PRODUCT SIZE



PRODUCT PARAMETERS

Max Gas Pressure	25Bar	Horizontal Adjustment Rang	±1.5mm	Effective Aperture	25mm
Collimating Focal length	F75/F100	Vertical Adjustment Range	±8mm	Gross weight	5.5kg
Focusing Focal Length	F125/F150/F190/F230	Applicable power	≤ 3000W		



SW20A

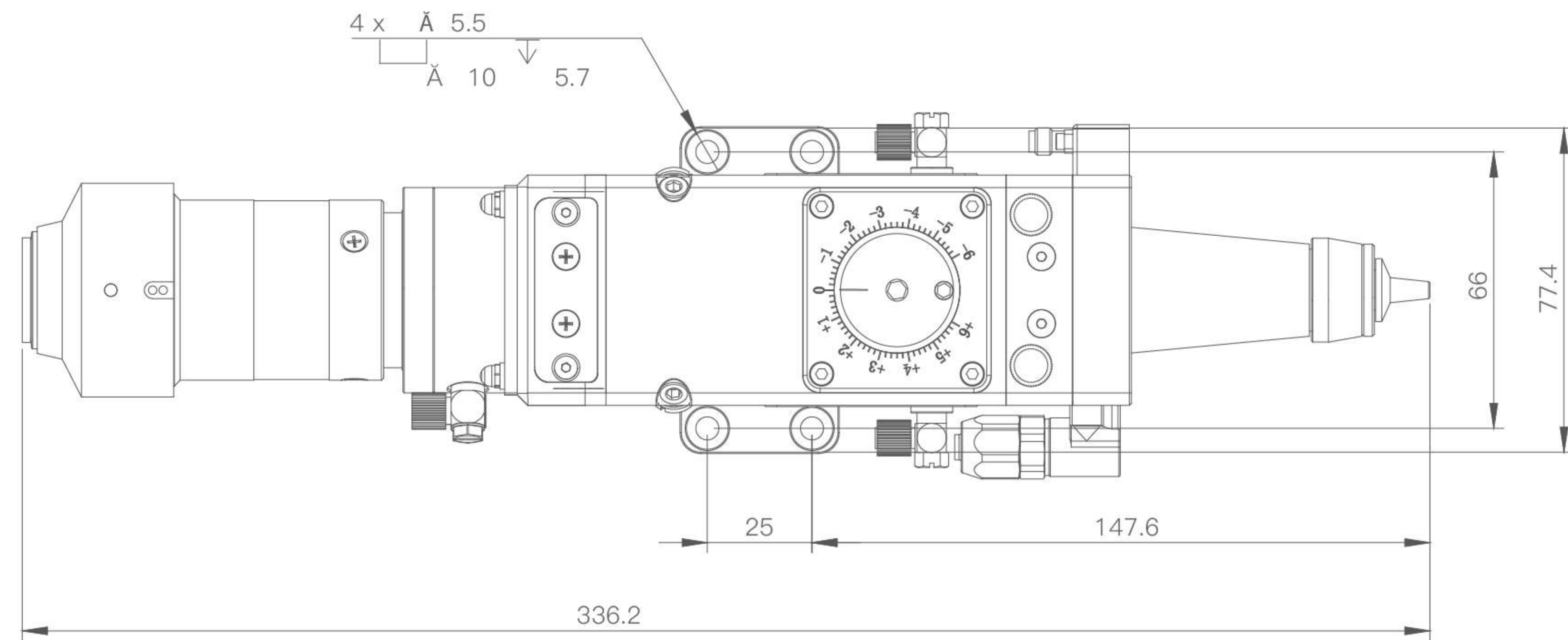
3D fiber cutting head

PRODUCT FEATURES

- ⚙️ Suitable for medium & low power.
- ⚙️ Completely sealed optical structure.
- ⚙️ Easy two-point alignment adjustment.
- ⚙️ Convenient change protective window.
- ⚙️ Lightweight structure design.
- ⚙️ Suitable for pipe cutting machine and robot.



PRODUCT SIZE



PRODUCT PARAMETERS

Max Gas Pressure	25Bar	Horizontal Adjustment Rang	±1.5mm	Effective Aperture	25mm
Collimating Focal length	F75/F100	Vertical Adjustment Range	±6mm	Gross weight	2.0kg
Focusing Focal Length	F125/F150/F190	Applicable power	≤ 2000W		



KC15A

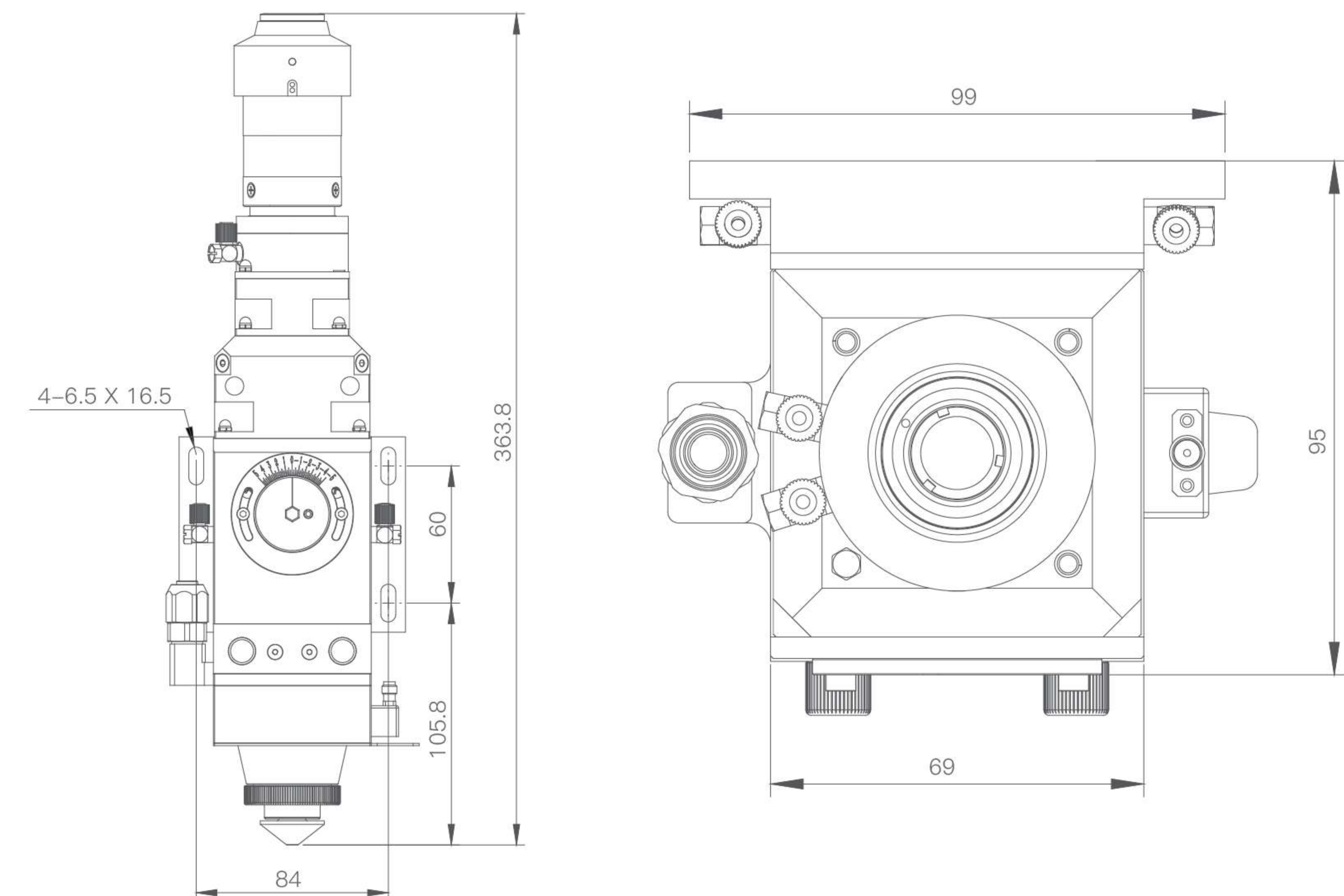
Manual cutting head

PRODUCT FEATURES

- ⚙️ Suitable for medium & low power.
- ⚙️ Completely sealed optical structure.
- ⚙️ Easy two-point alignment adjustment.
- ⚙️ Convenient change protective window.
- ⚙️ Different laser plugs (QBH or QCS)
- ⚙️ Convenient change protective window.
- ⚙️ High cost performance and low maintenance cost.



PRODUCT SIZE



PRODUCT PARAMETERS

Max Gas Pressure	25Bar	Horizontal Adjustment Rang	±1.5mm	Effective Aperture	25mm
Collimating Focal length	F75/F100	Vertical Adjustment Range	±5mm	Gross weight	3.5kg
Focusing Focal Length	F125/F150/F190	Applicable power	≤ 2000W		

F100

Anticollision Device

PRODUCT FEATURES

- ⚙️ Pneumatic booster provides protection against accidental effects and unexpected event loads on industrial robots and tools.
- ⚙️ Through sensing industrial robots and tools working geometry due to overworked torsion, torque or compressed axial forces and other events, and send out collision signals.
- ⚙️ When the collision occurs, the internal movement of the device causes the normally closed dry contact switch to open.
- ⚙️ The switch circuit can be stopped by the monitor robot controller before damage occurs to the robot or tool.
- ⚙️ The separated load threshold may be controlled to regulate the air pressure provided to the unit.
- ⚙️ All devices provide axial (compression only), torsional and torque event protection.



PRODUCT PARAMETERS

Operating pressure	Angle movement upper limit	Torsion load upper limit
1.7-6.2Bar	±13°	1713N
Axial load upper limit	Working voltage	Weight
1713N	DC24V	0.58kg

Optic Lens

Collimating Lens Component

The collimating lens component adopts precision machined gasket, locking ring combined with imported lens group to transform the transmission beam into collimated beam in the optical fiber with small volume and low loss.

WSX-JQ-JT-01



WSX-NC60-JT-03



Focusing Lens Component

The focusing lens component combines the crescent lens and the double convex lens to form the convex lens group, which can correct the spherical aberration, make the focused spot smaller, the energy more concentrated, and the cutting sharper.

WSX-NC60-JT-04



WSX-GQ-JT-02



Ceramic ring

It is made of imported ceramic materials by precision machining and has good brittleness and temperature adaptability.



WTC-01A



Sensor cable

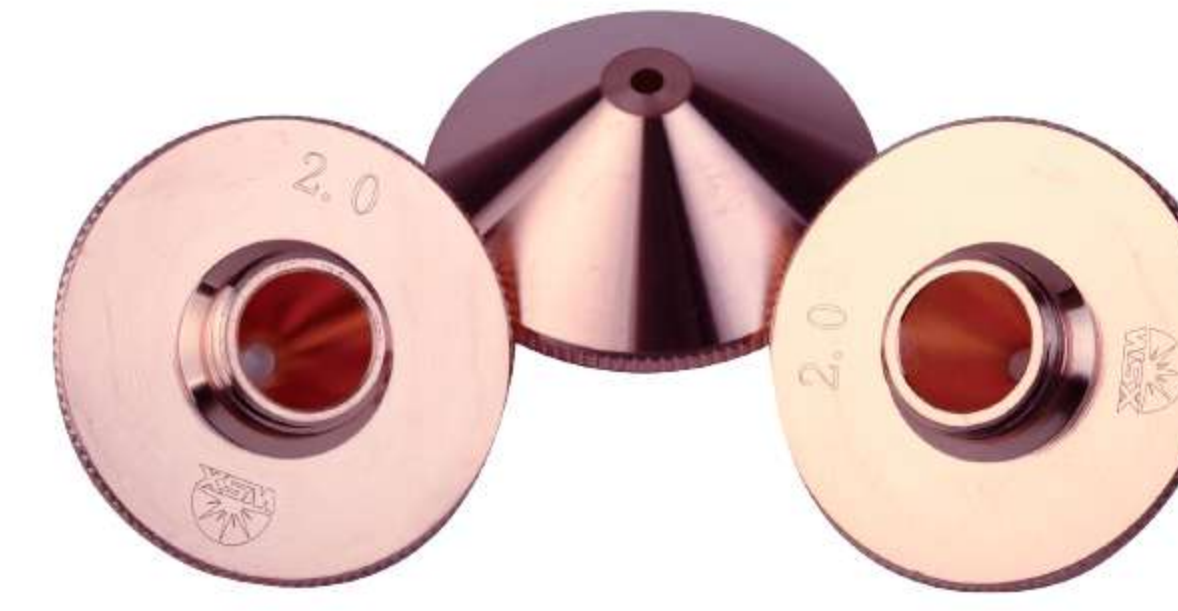


Seal Ring

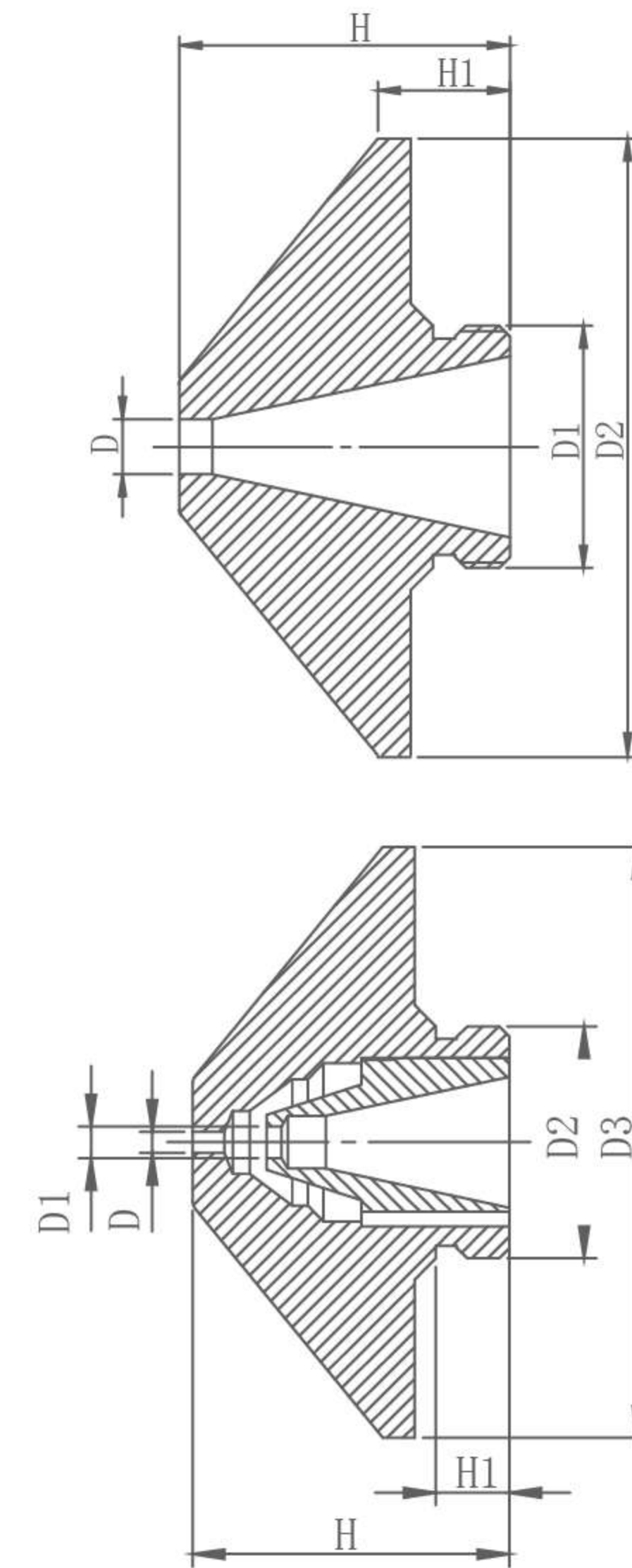
Specification (mm)
25.6*20.5*2.7
29.8*24.4*2.3
43.5*37.5*2

Nozzle

WPCT-D



WPCT-S

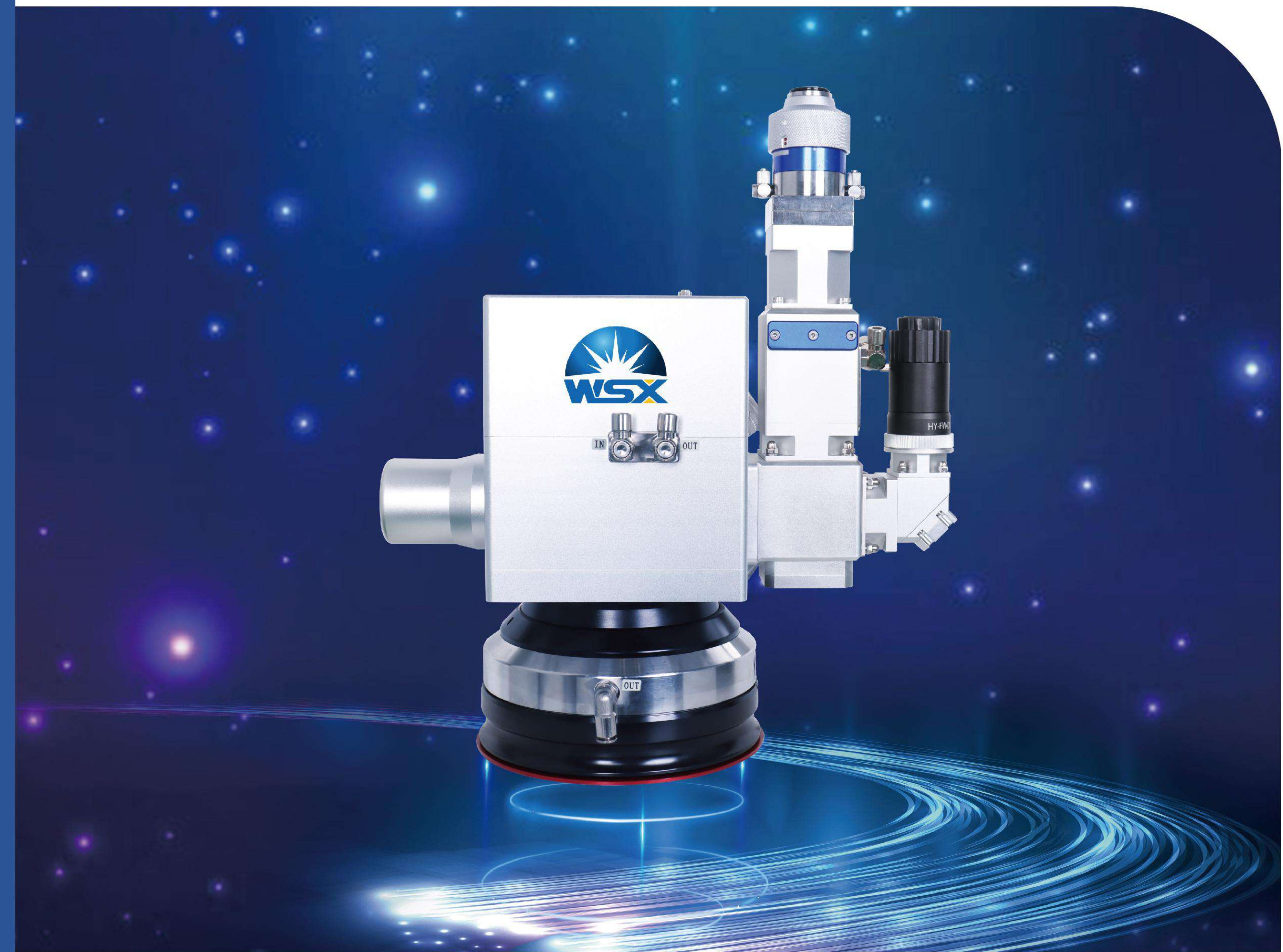


Material	Working Presser	Working Temperature	Installation Way			
copper	High Pressure Resistance	High Temperature	External Screw Thread Connection			
Type (Single)	øD	D ₁	D ₂	H	H ₁	
WPCT-D-08	0.8	M11*0.75	28	15	3.5	
WPCT-D-10	1.0					
WPCT-D-11	1.1					
WPCT-D-12	1.2					
WPCT-D-15	1.5					
WPCT-D-18	1.8					
WPCT-D-20	2.0					
WPCT-D-25	2.5					
WPCT-D-30	3.0					
WPCT-D-35	3.5					
WPCT-D-40	4.0	1.5	M11*0.75	28	15	3.5
WPCT-D-45	4.5					
WPCT-D-50	5.0					
Type (Double)	øD					
WPCT-S-10	1.0					
WPCT-S-12	1.2					
WPCT-S-15	1.5					
WPCT-S-20	2.0					
WPCT-S-25	2.5					
WPCT-S-30	3.0					
WPCT-S-35	3.5					
WPCT-S-40	4.0					
WPCT-S-45	4.5					
WPCT-S-50	5.0					
WPCT-S-55	5.5					
	6.0					



PRODUCT CATALOG OF FIBER WELDING HEAD

WSX LASER _ | 🔍



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COMPANY PROFILE

As a leading laser head manufacturer, Shenzhen Worthing Technology Co., Ltd. is a high-tech enterprise focusing on fiber cutting head and fiber welding head since establishment in 2006. We are a member of Guangdong Laser Industry Association and Shenzhen Laser Intelligent Manufacturing Industry Association as well.

We have always strictly managing the company's production, R&D and operation, developing a standardized management full with the international advanced standard, and obtained ISO9001: 2015 quality management system certification.

We are keeping promoting innovation in products and services enjoying a excellent reputation in the industry. We will continue to uphold the "innovation, service, and efficiency" concept, promoting manufacturing transformation and upgrading, and creating a better tomorrow with our customers!



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ND40

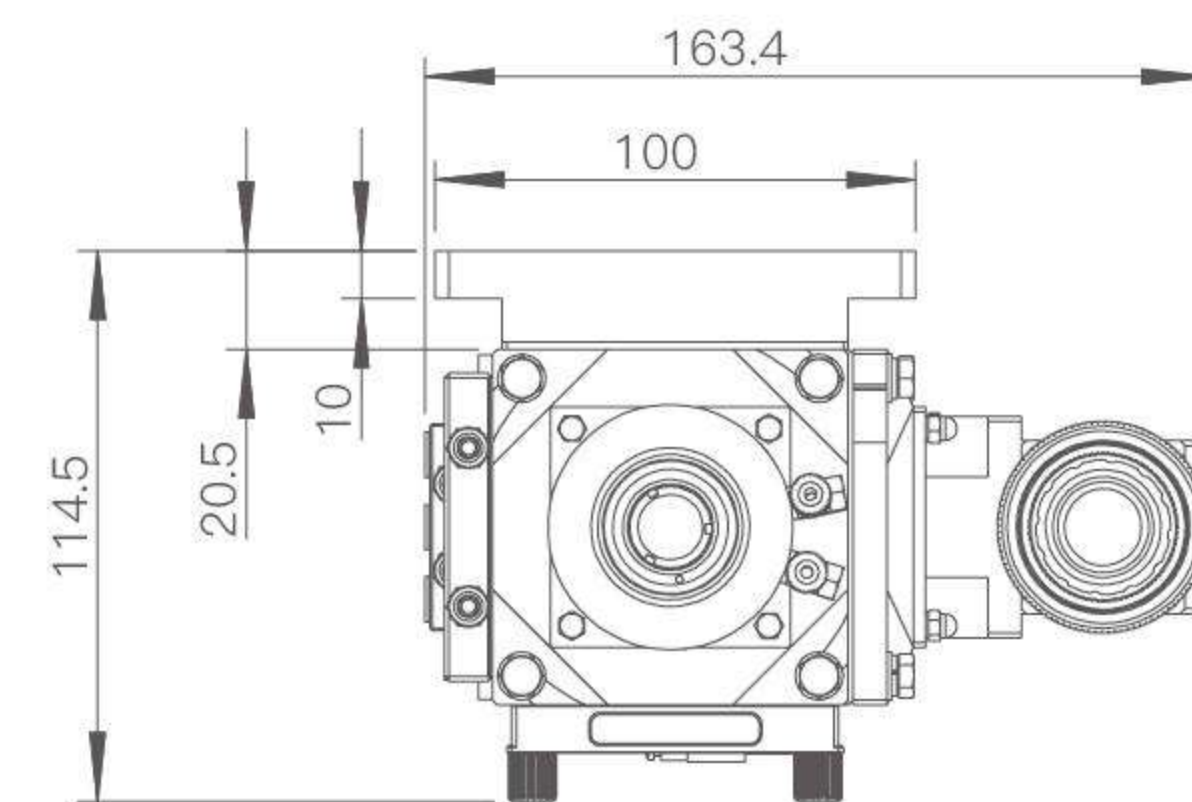
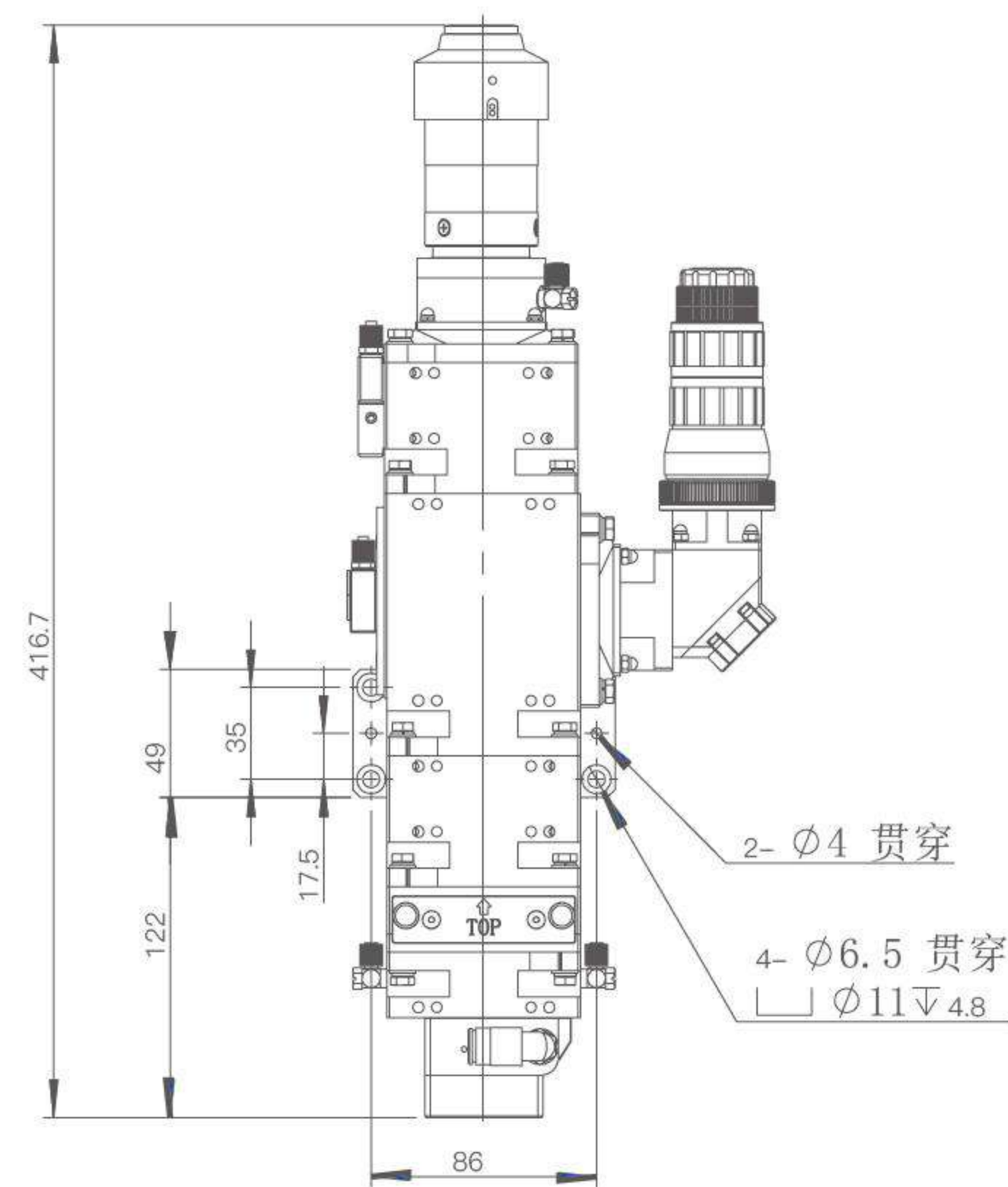
Ring spot welding Head-4000W

PRODUCT FEATURES

- Cost-effective and strong advantage in welding plates.
- Outstanding welding performance with good cooling and optical design.
- High dust-proof from full-sealed internal structure, guaranteeing protective window's lifespan.
- CCD module could be equipped with camera and display to achieve welding seam tracking.
- Well matched various laser source.
- Coaxial nozzle available.



PRODUCT SIZE



PRODUCT PARAMETERS

Max working power	Collimator focal length	Focus focal length	Weight	Clear aperture
4000W	100mm/150mm	200mm/300mm	4.2kg	Φ48mm



ND61

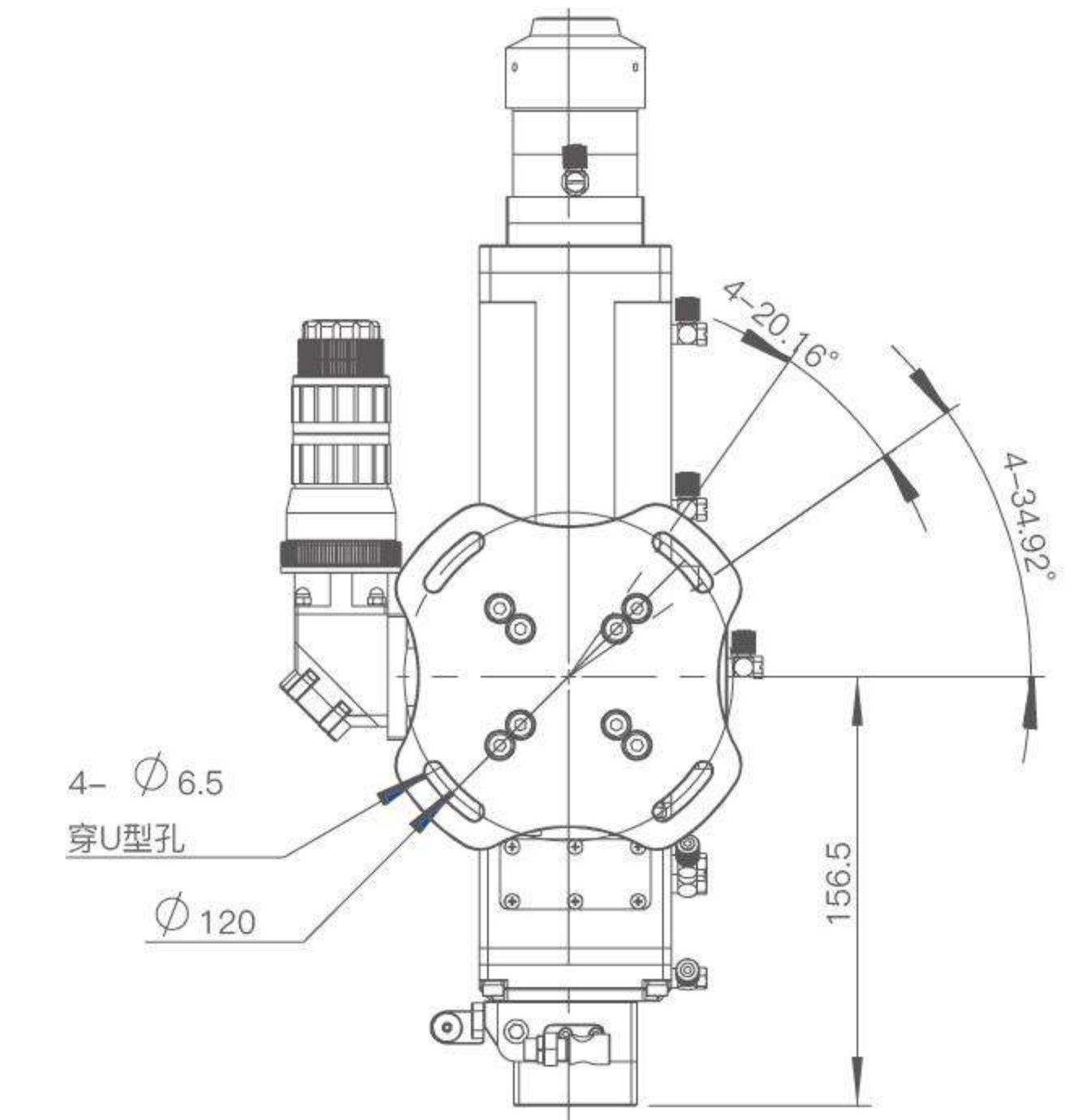
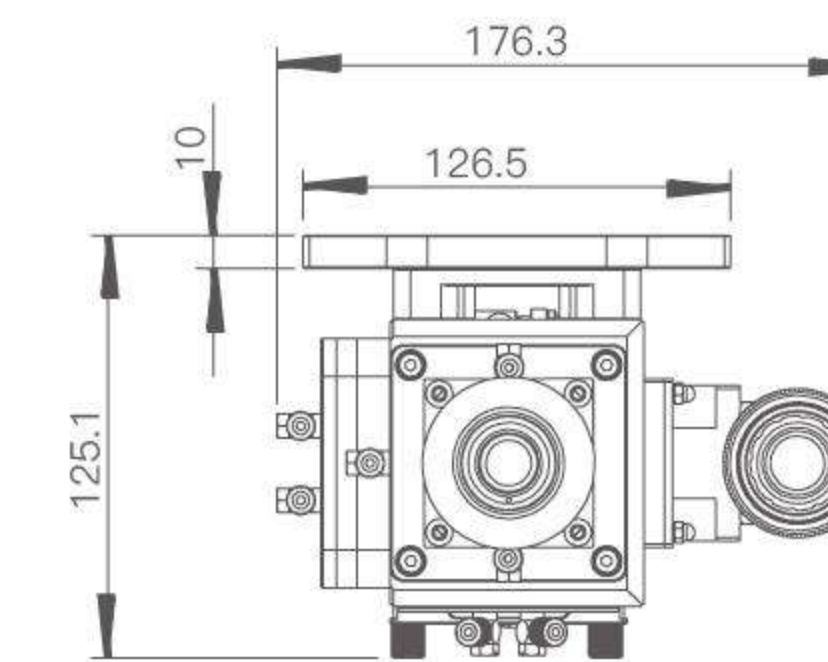
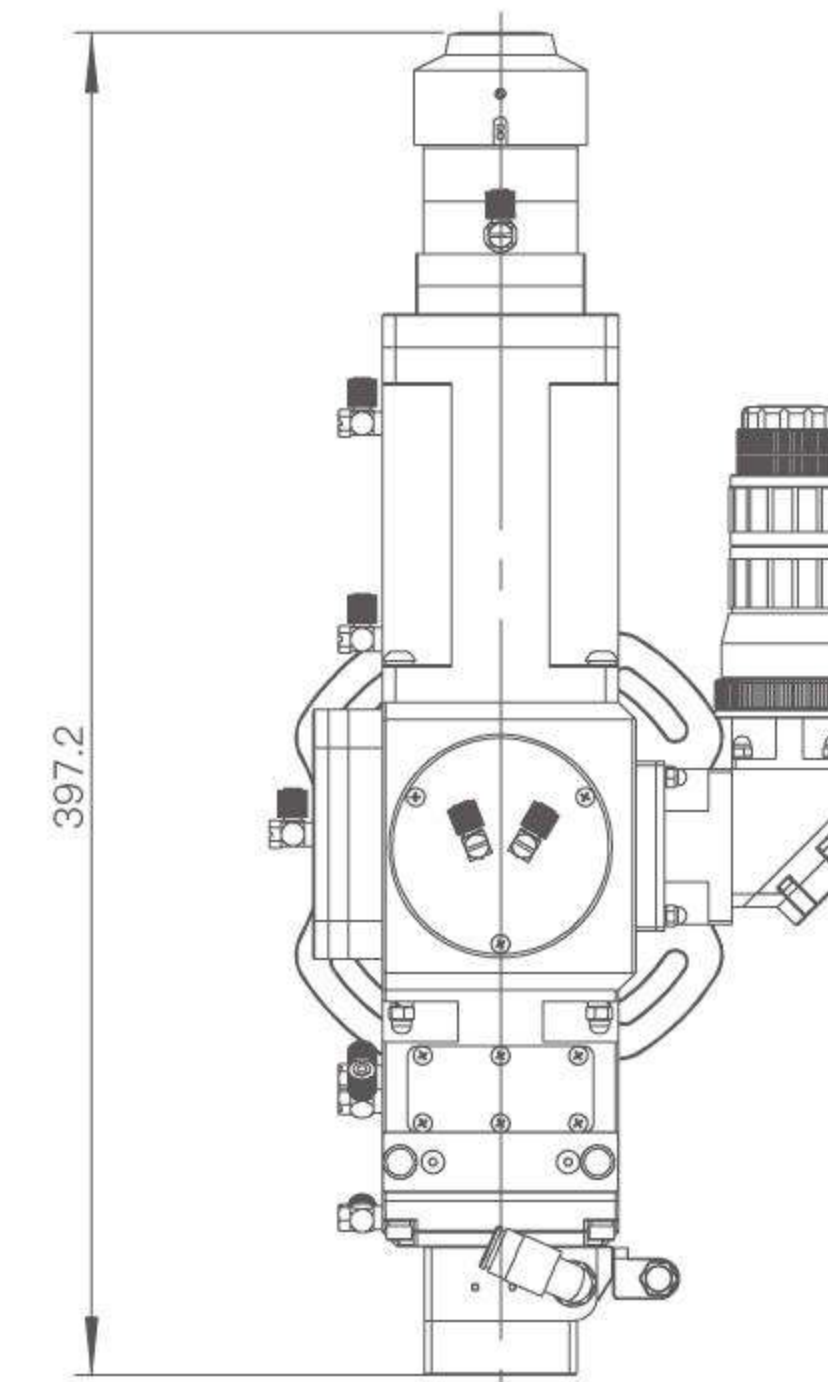
Ring spot welding Head-6000W

PRODUCT FEATURES

- Cost-effective and strong advantage in welding plates.
- Outstanding welding performance with good cooling and optical design.
- High dust-proof from full-sealed internal structure, guaranteeing protective window's lifespan.
- CCD module could be equipped with camera and display to achieve welding seam tracking.
- Well matched various laser source.
- Coaxial nozzle available.



PRODUCT SIZE



PRODUCT PARAMETERS

Max working power	Collimator focal length	Focus focal length	Weight	Clear aperture
6000W	150mm	200mm/250mm	4.6kg	Φ48mm



Craftsmanship forges the quality; Intelligent manufacturing leads the future



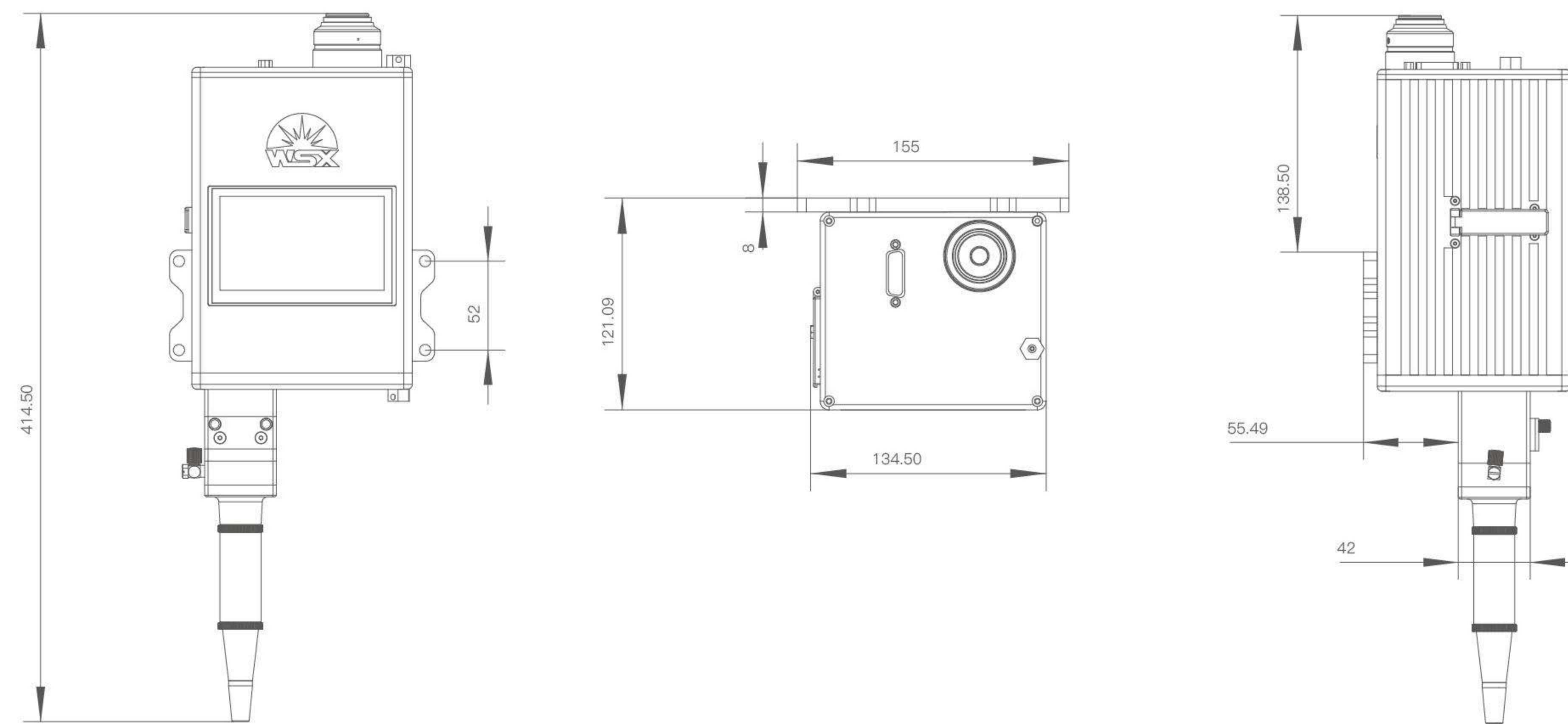
HB11

Wobble welding head-2000W

PRODUCT FEATURES

- Outstanding welding performance with good cooling and optical design.
- High dust-proof from full-sealed internal structure, guaranteeing protective window's lifespan.
- Automatic wire feeding function.
- Various lenses configuration.
- Touch screen for parameter setting.
- Built-in CCD monitors focus position and imaging in real time.
- Built-in driver and improved anti-interference ability.

PRODUCT SIZE



PRODUCT PARAMETERS

Max working power	Collimator focal length	Focus focal length	Weight	Clear aperture
2000W	75mm/100mm	200mm	2.0kg	Φ16mm



Craftsmanship forges the quality; Intelligent manufacturing leads the future

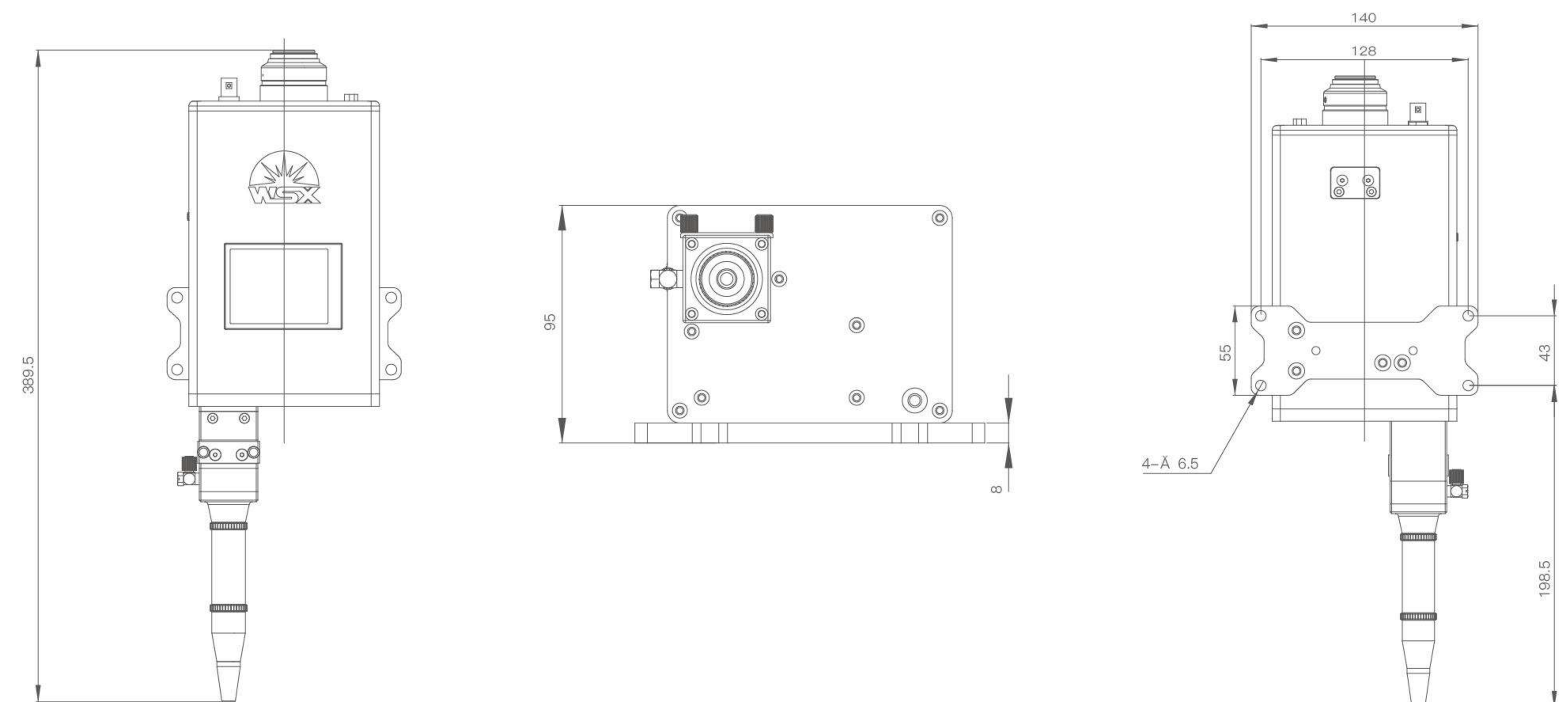
HB12

Wobble welding head-1500W

PRODUCT FEATURES

- Outstanding welding performance with good cooling and optical design.
- High dust-proof from full-sealed internal structure, guaranteeing protective window's lifespan.
- Automatic wire feeding function.
- Touch screen for parameter setting.
- Built-in CCD monitors focus position and imaging in real time.
- Built-in driver and improved anti-interference ability.
- Lightweight structure, suitable for robots.
- Available for semiconductor lasers.

PRODUCT SIZE



PRODUCT PARAMETERS

Max working power	Collimator focal length	Focus focal length	Weight	Clear aperture
1500W	80mm	180mm	1.5kg	Φ12mm



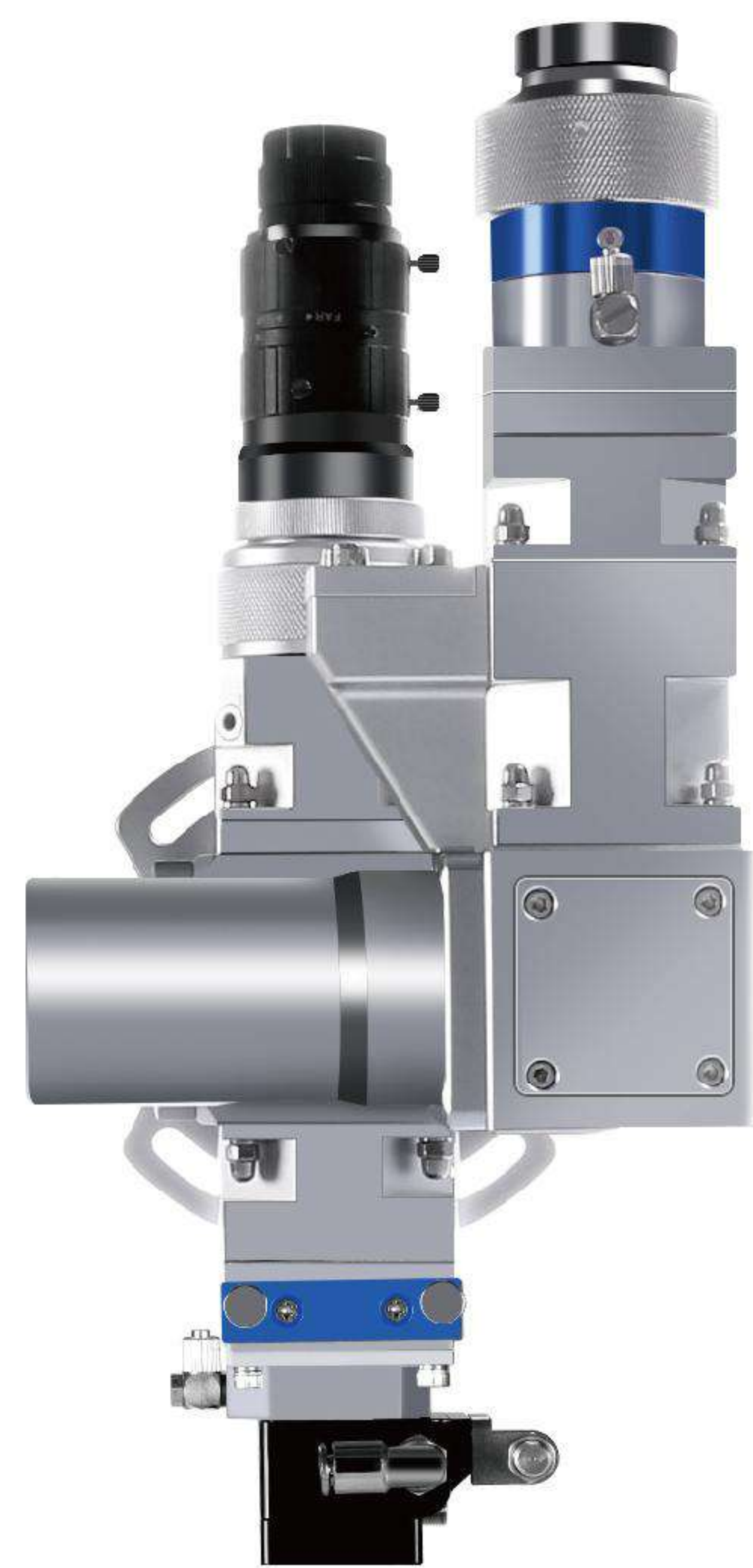


ND15

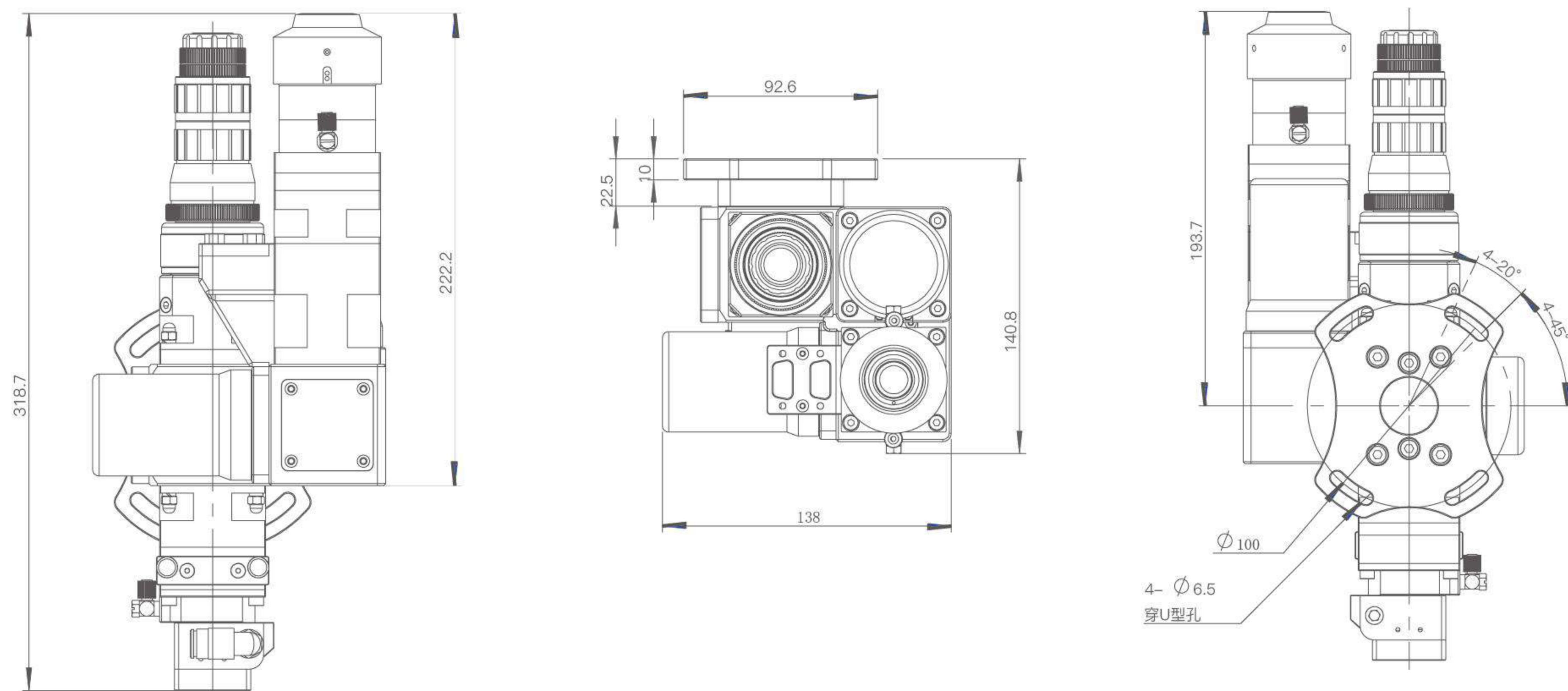
Wobble welding head-1500W

PRODUCT FEATURES

- Adopting the motor to drive the X, Y-axis galvanometer lens with a variety of wobbling modes.
- It allows the work piece with irregular welds, and the larger clearance.
- Processing parameters can significantly improve the quality.
- Greatly improve the finish.
- Enhancing welding consistency of back reflection materials.



PRODUCT SIZE



PRODUCT PARAMETERS

Max working power	Collimator focal length	Focus focal length	Weight	Clear aperture
1500W	75mm/100mm	150mm/200mm	3.6kg	Φ22mm



ND24

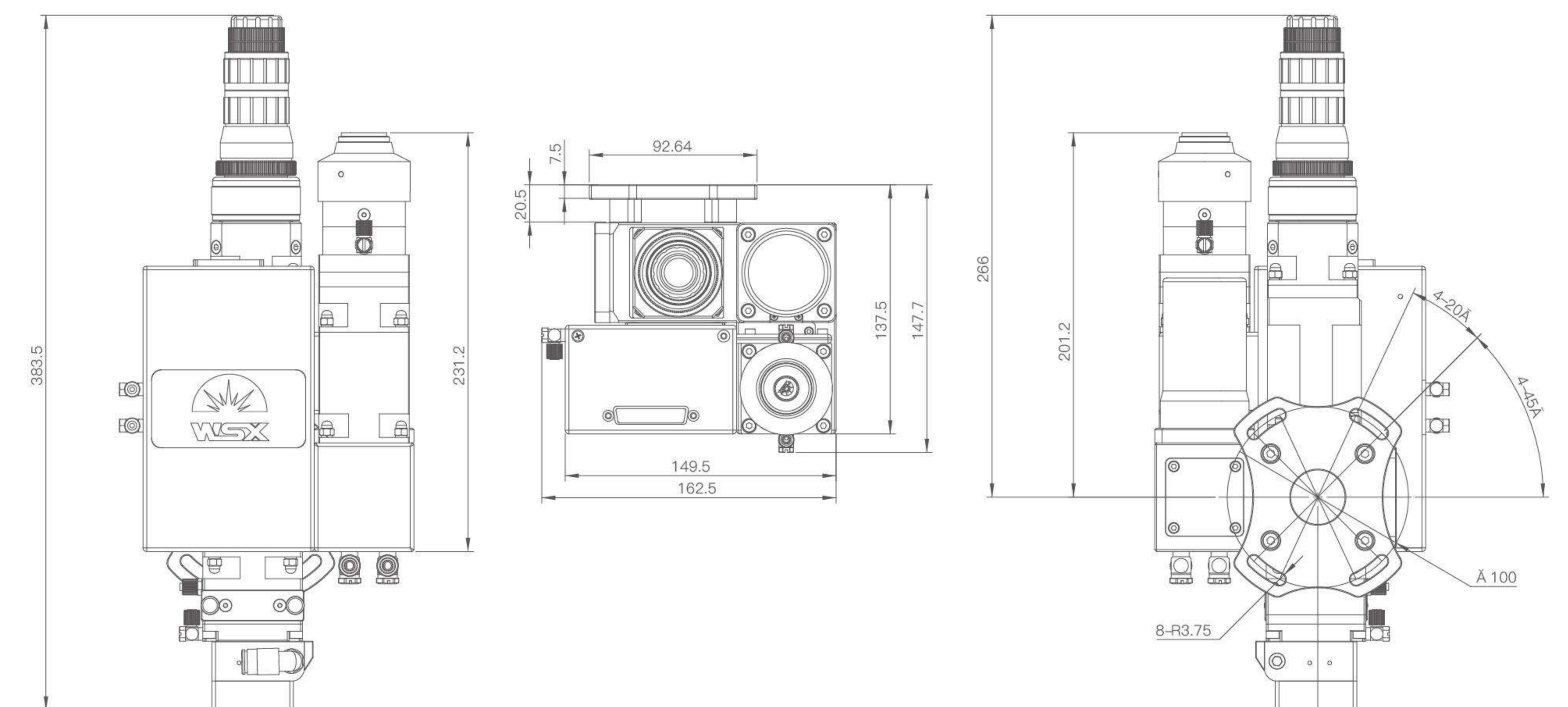
Wobble welding head-4000W

PRODUCT FEATURES

- Adopting the motor to drive the X, Y-axis galvanometer lens with a variety of wobbling modes.
- It allows the work piece with irregular welds, and the larger clearance.
- Processing parameters can significantly improve the quality.
- Greatly improve the finish.
- Enhancing welding consistency of back reflection materials.
- Built-in driver and improved anti-interference ability.



PRODUCT SIZE



PRODUCT PARAMETERS

Max working power	Collimator focal length	Focus focal length	Weight	Clear aperture
3000W	100mm	200mm	4.2kg	Φ22mm



ND60

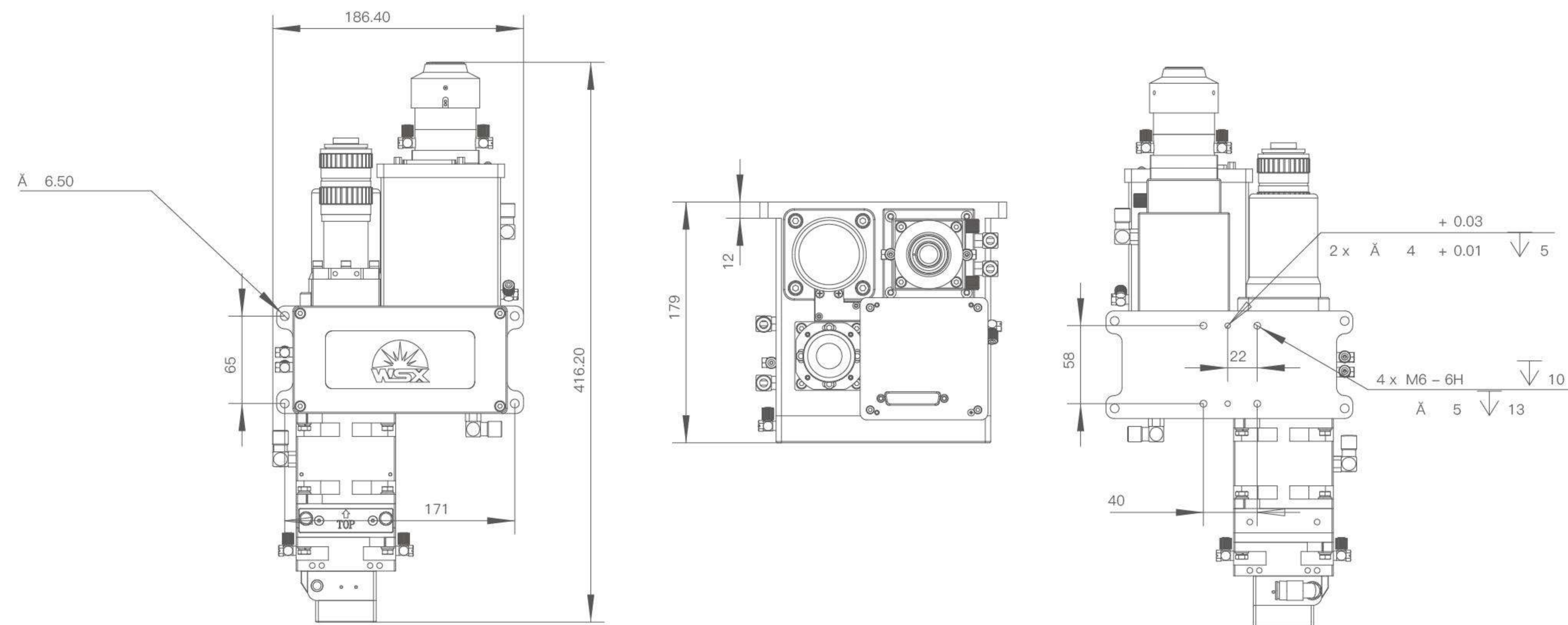
Wobble welding head-6000W

PRODUCT FEATURES

- Adopting the motor to drive the X, Y-axis galvanometer lens with a variety of wobbling modes.
- It allows the work piece with irregular welds, and the larger clearance.
- Processing parameters can significantly improve the quality.
- Greatly improve the finish.
- Enhancing welding consistency of back reflection materials.
- Built-in driver and improved anti-interference ability.



PRODUCT SIZE



PRODUCT PARAMETERS

Max working power	Collimator focal length	Focus focal length	Weight	Clear aperture
6000W	100mm/150mm	200/250/300mm	6.5kg	Φ35mm



ND12K

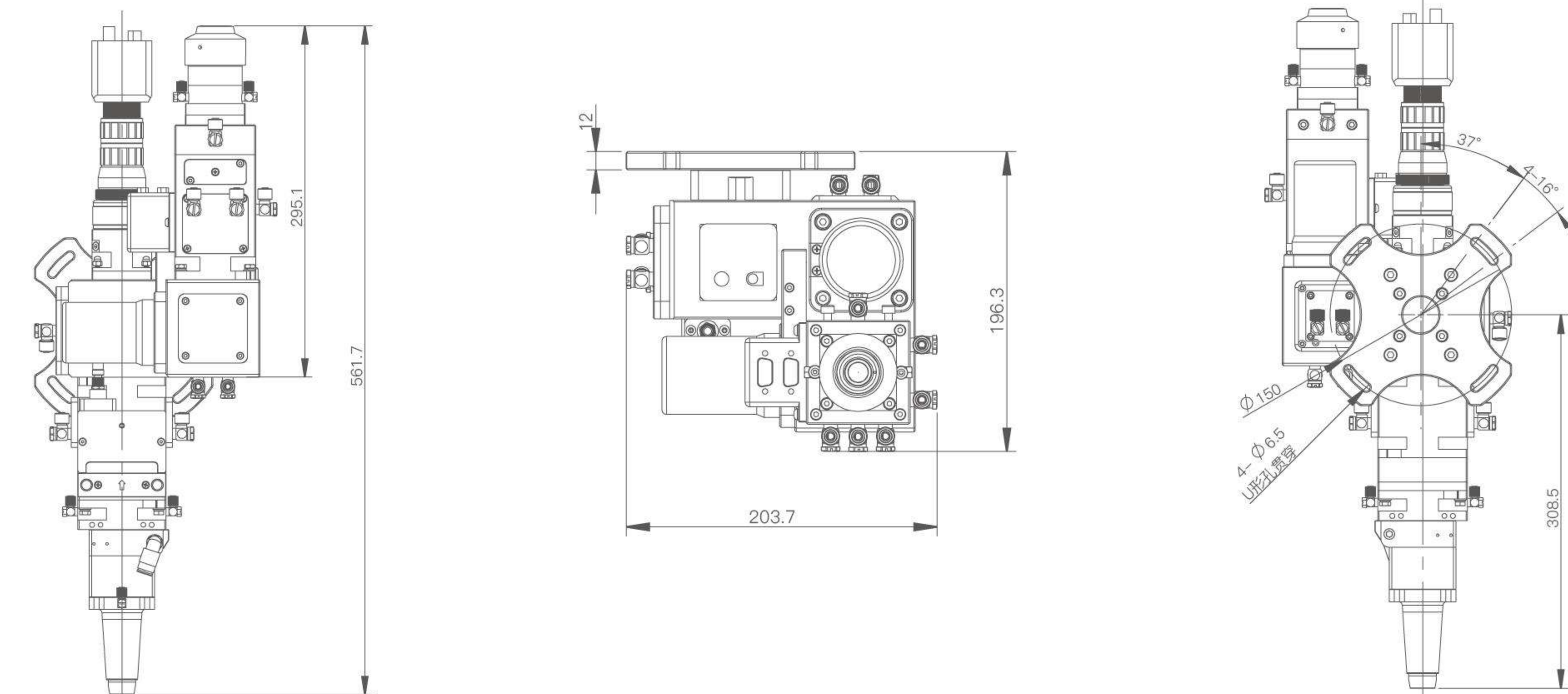
Wobble welding head-12000W

PRODUCT FEATURES

- Adopting the motor to drive the X, Y-axis galvanometer lens with a variety of wobbling modes.
- It allows the work piece with irregular welds, and the larger clearance.
- Processing parameters can significantly improve the quality.
- Greatly improve the finish.
- Enhancing welding consistency of back reflection materials.
- Coaxial nozzle available.



PRODUCT SIZE



PRODUCT PARAMETERS

Max working power	Collimator focal length	Focus focal length	Weight	Clear aperture
12000W	130mm	300mm	9.6kg	Φ35mm



ND29

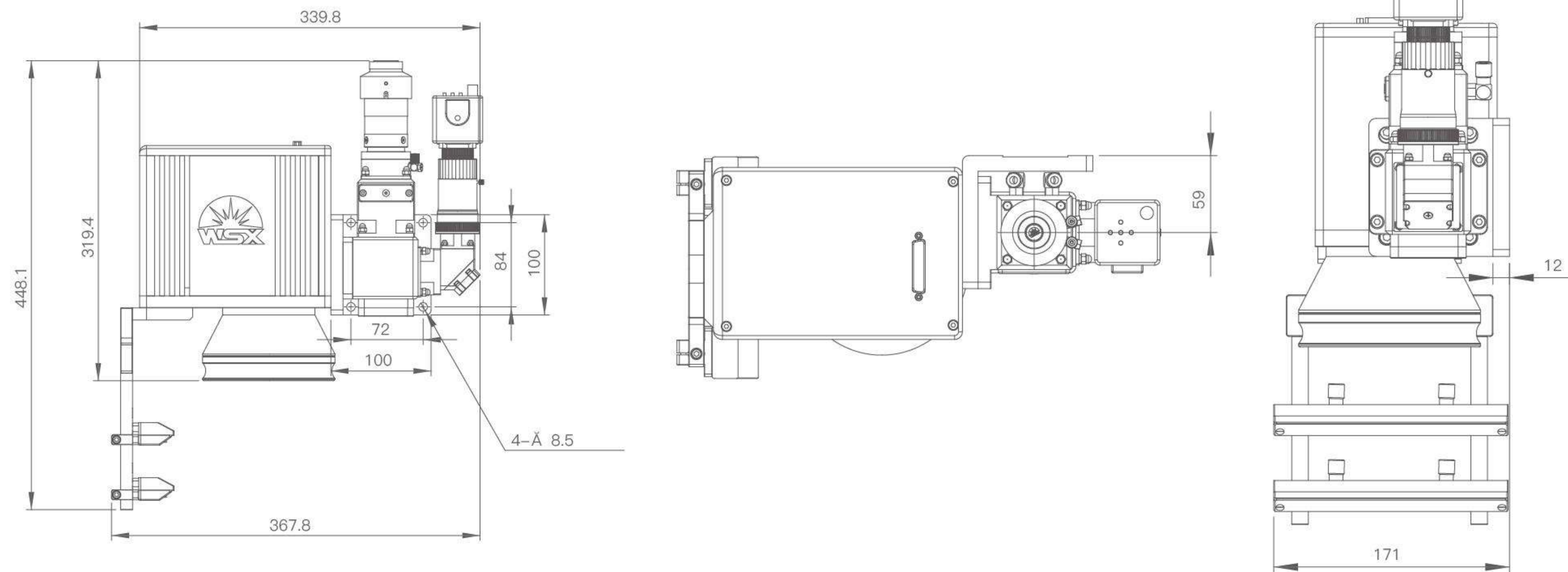
Galvanometer Welding Head-3000W

PRODUCT FEATURES



- Advantage in welding speed and high accuracy.
- Adopting the motor to drive the X, Y-axis galvanometer lens, F-THETA focus lens to focus
- Providing a variety of wobble modes significantly improving the welding quality.
- Full-sealed internal structure protects optical part from pollution by dust.
- Air curtain parts prevent welding slag from entering head inside.
- Built-in driver and improved anti-interference ability.

PRODUCT SIZE



PRODUCT PARAMETERS

Max working power	Collimator focal length	Focus focal length	Weight	Scan range	Clear aperture
3000W	100/150mm	254/350/400mm	6.5kg	130mm×130mm	Φ35mm



ND31A

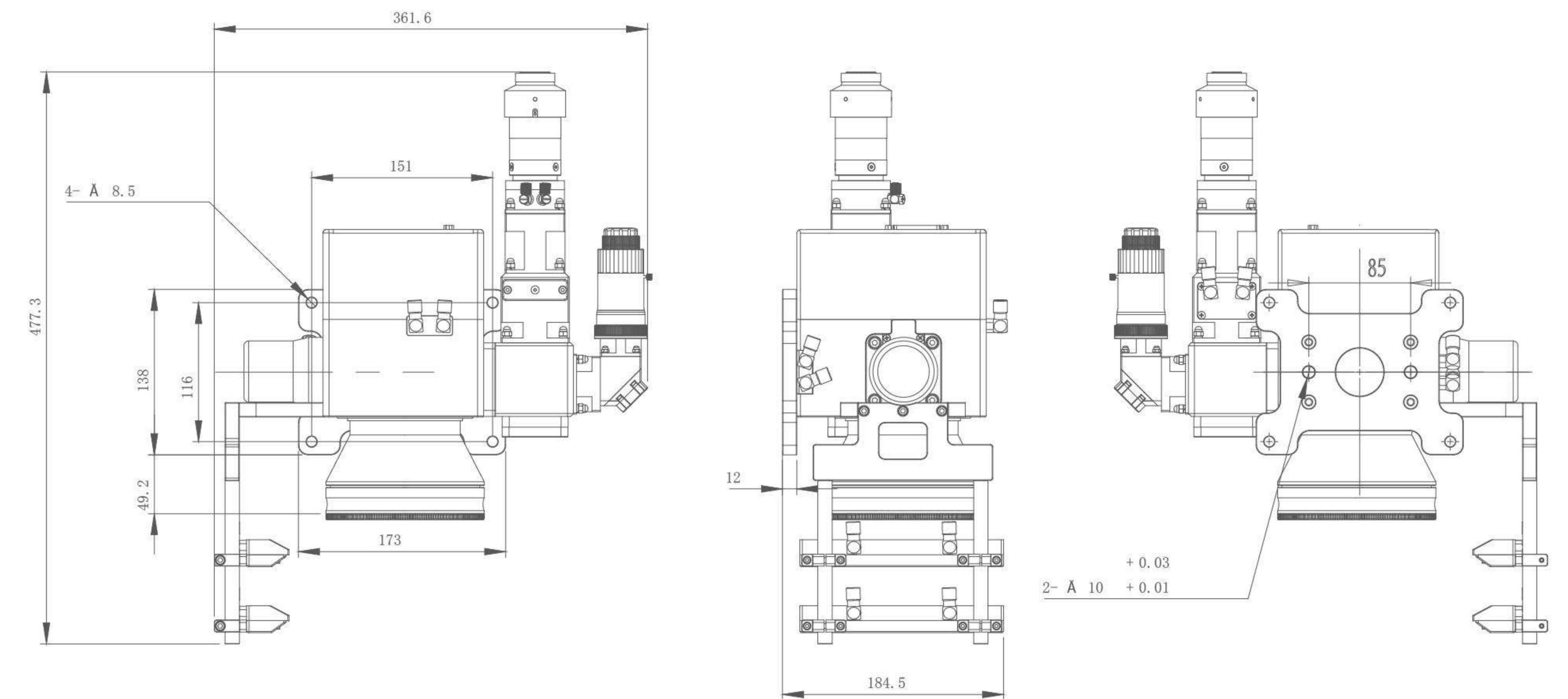
Galvanometer Welding Head-4000W

PRODUCT FEATURES



- Advantage in welding speed and high accuracy.
- Adopting the motor to drive the X, Y-axis galvanometer lens, F-THETA focus lens to focus
- Providing a variety of wobble modes significantly improving the welding quality.
- Full-sealed internal structure protects optical part from pollution by dust.
- Air curtain parts prevent welding slag from entering head inside.

PRODUCT SIZE



PRODUCT PARAMETERS

Max working power	Collimator focal length	Focus focal length	Weight	Scan range	Clear aperture
4000W	100/150mm	254/350/400mm	8kg	210mm×210mm	Φ24mm



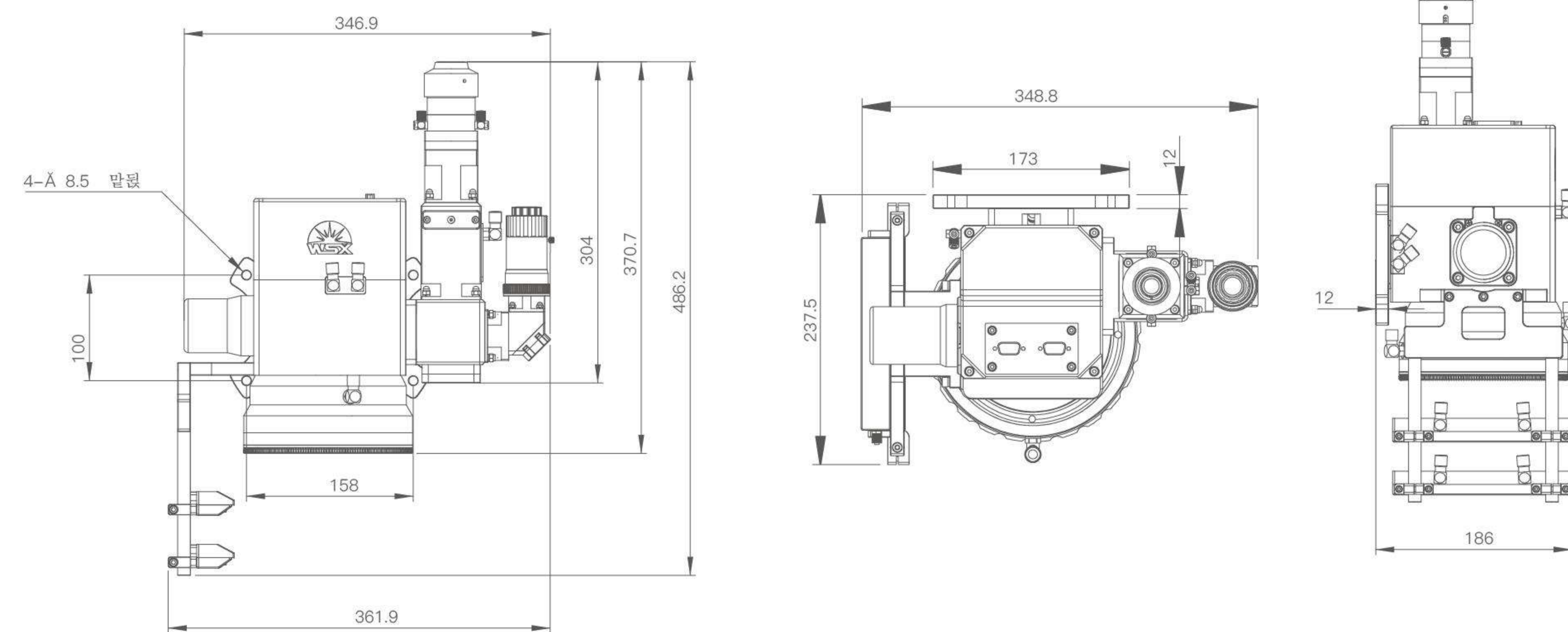
ND65

Galvanometer Welding Head-6000W

PRODUCT FEATURES

- Advantage in welding speed and high accuracy.
- Adopting the motor to drive the X, Y-axis galvanometer lens, F-THETA focus lens to focus
- Providing a variety of wobble modes significantly improving the welding quality.
- Full-sealed internal structure protects optical part from pollution by dust.
- Air curtain parts prevent welding slag from entering head inside.
- Built-in driver and improved anti-interference ability.

PRODUCT SIZE



PRODUCT PARAMETERS

Max working power	Collimator focal length	Focus focal length	Weight	Scan range	Clear aperture
6000W	100/150mm	350/400mm	9.5kg	220mm×220mm	Φ25mm



HZ11

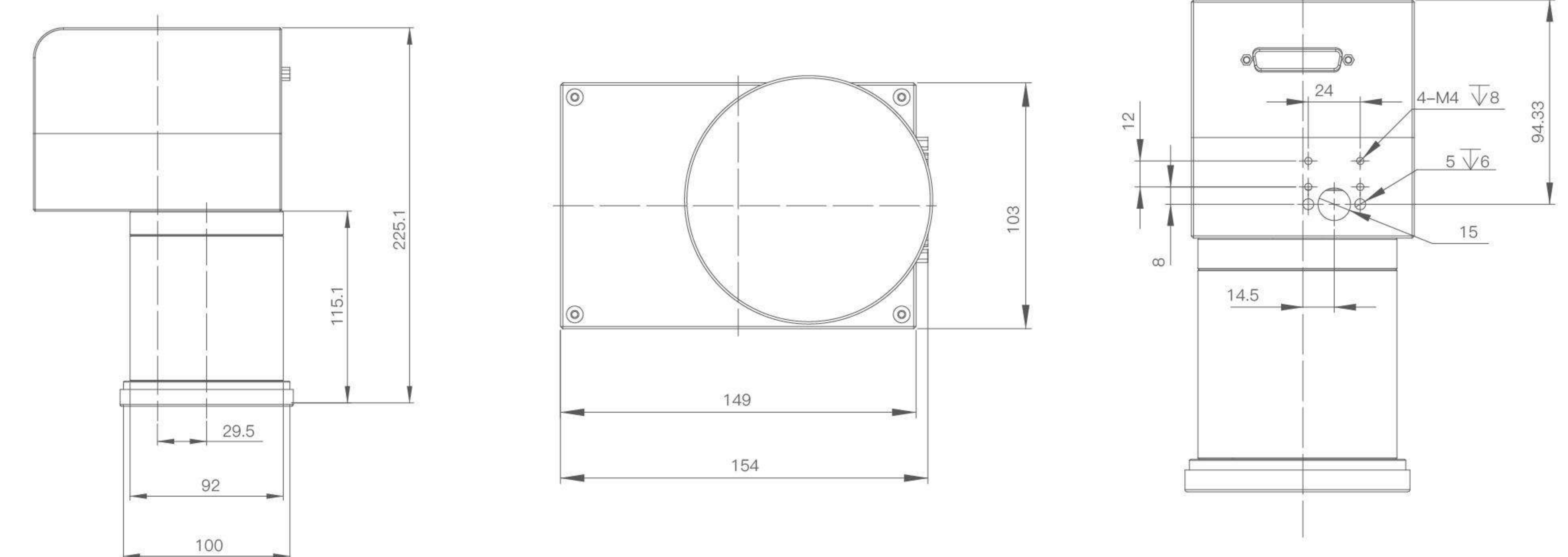
Galvanometer Welding Head-2000W

PRODUCT FEATURES

- Advantage in welding speed and high accuracy.
- Adopting the motor to drive the X, Y-axis galvanometer lens, F-THETA focus lens to focus
- Providing a variety of wobble modes significantly improving the welding quality.
- Full-sealed internal structure protects optical part from pollution by dust.
- Air curtain parts prevent welding slag from entering head inside.
- Built-in driver and improved anti-interference ability.



PRODUCT SIZE



PRODUCT PARAMETERS

Max working power	Collimator focal length	Weight	Scan range	Clear aperture
2000W	161mm	3.1kg	80mm×80mm	Φ14mm



ND68

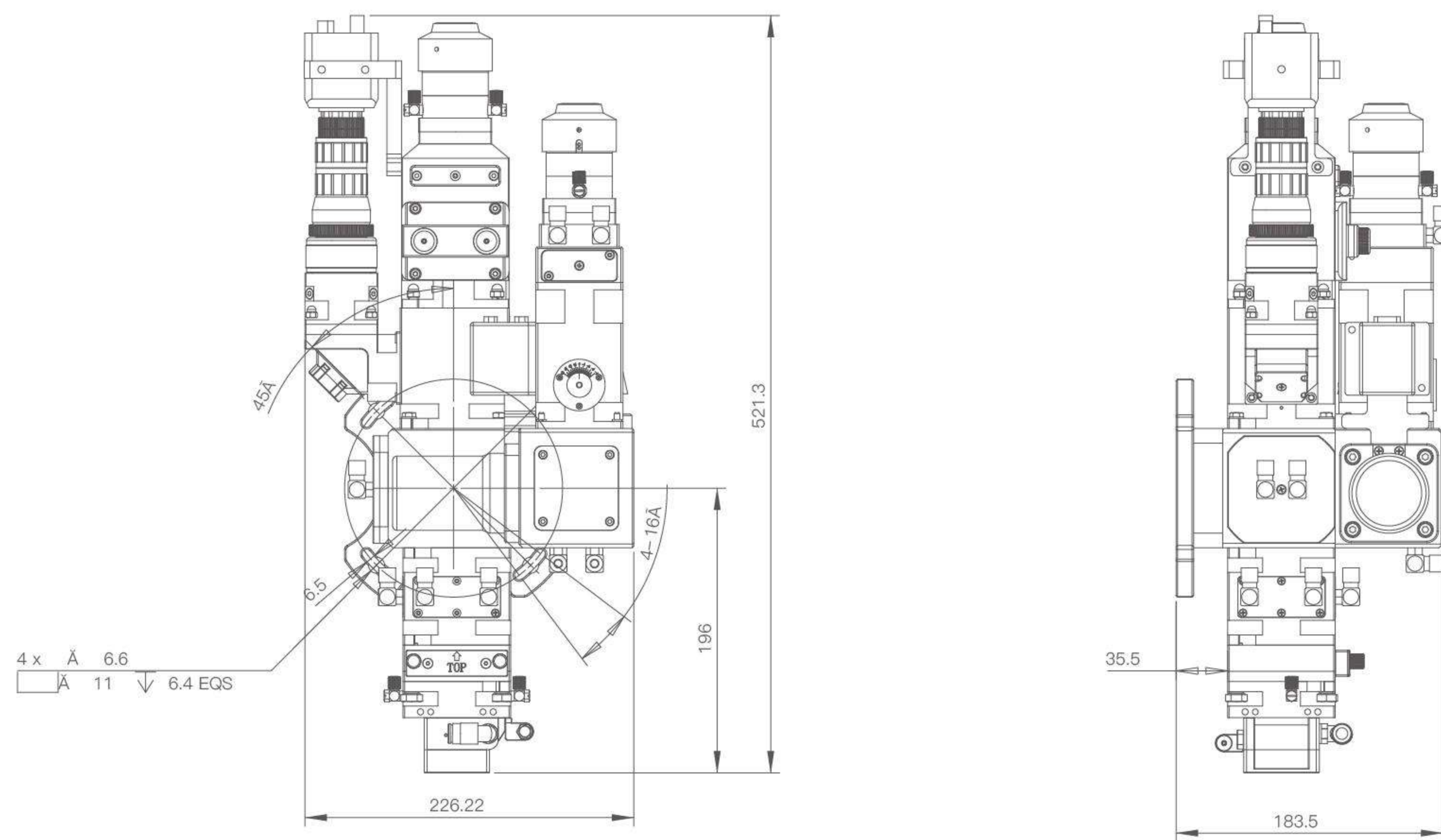
Hybrid Welding Head-6000W

PRODUCT FEATURES

- Advantage in welding speed and high accuracy.
- Adopting the motor to drive the X, Y-axis galvanometer lens, F-THETA focus lens to focus
- Providing a variety of wobble modes significantly improving the welding quality.
- Full-sealed internal structure protects optical part from pollution by dust.
- Air curtain parts prevent welding slag from entering head inside.
- Coaxial nozzle available.



PRODUCT SIZE



PRODUCT PARAMETERS

Max working power	Collimator focal length	Focus focal length	Weight	Adjustable width	Clear aperture
6000W	F100*F100mm	200mm/250mm	5.5kg	±4mm	Φ36/Φ45mm



ND18Q

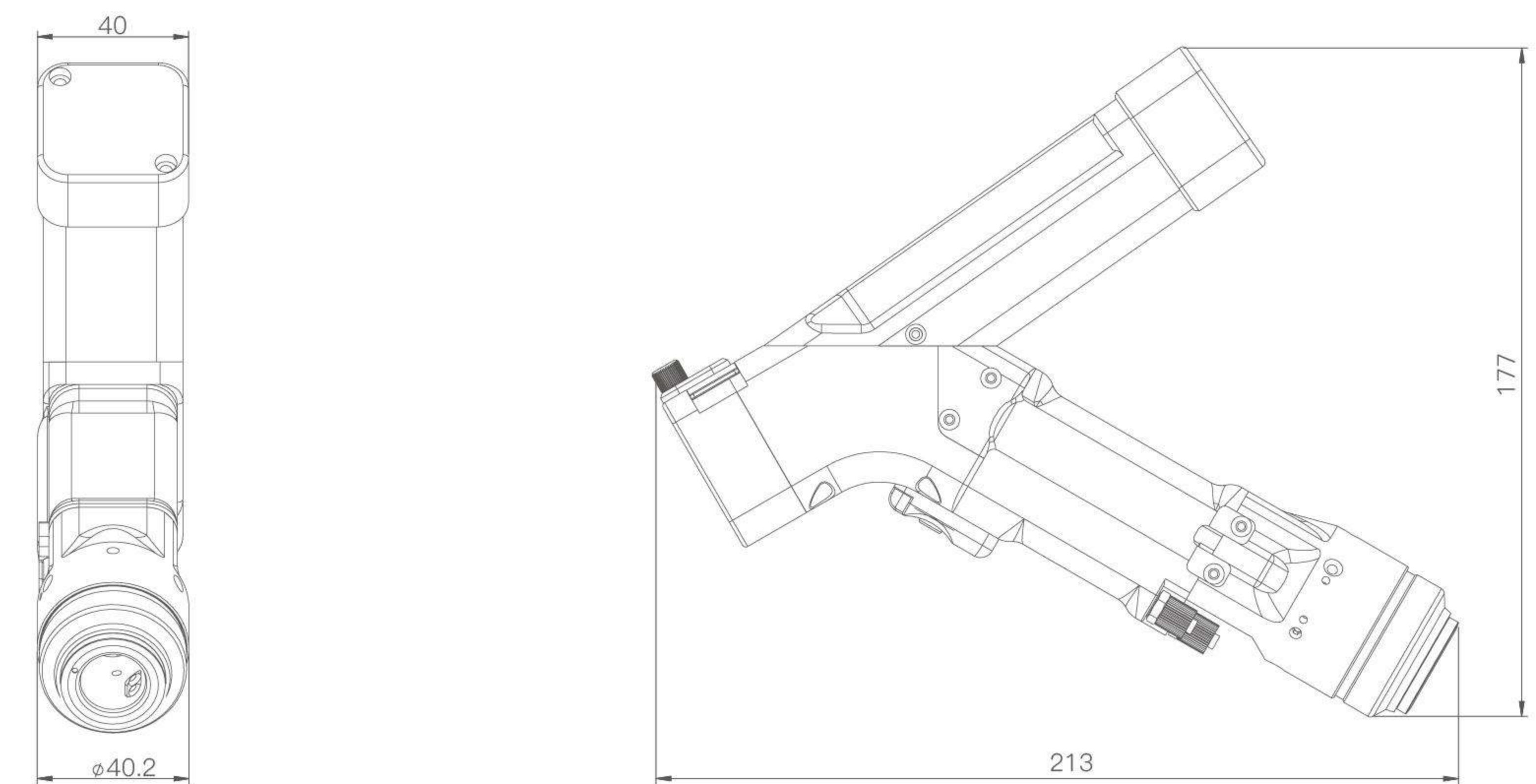
Handheld Cleaning Head-1500W

PRODUCT FEATURES

- Non-contact cleaning up to 150mm wide without damaging the part substrate.
- No need for any chemical cleaning solution, no consumables, safe and environmentally friendly.
- Easy to operate, handheld or with robot to achieve automatic cleaning.
- Fast cleaning speed and high efficiency.
- Laser cleaning system is stable, almost no maintenance.



PRODUCT SIZE



PRODUCT PARAMETERS

Max working power	Collimator focal length	Focus focal length	Weight	Adjustable width
3000W	50mm	300mm	0.8kg	80-150mm



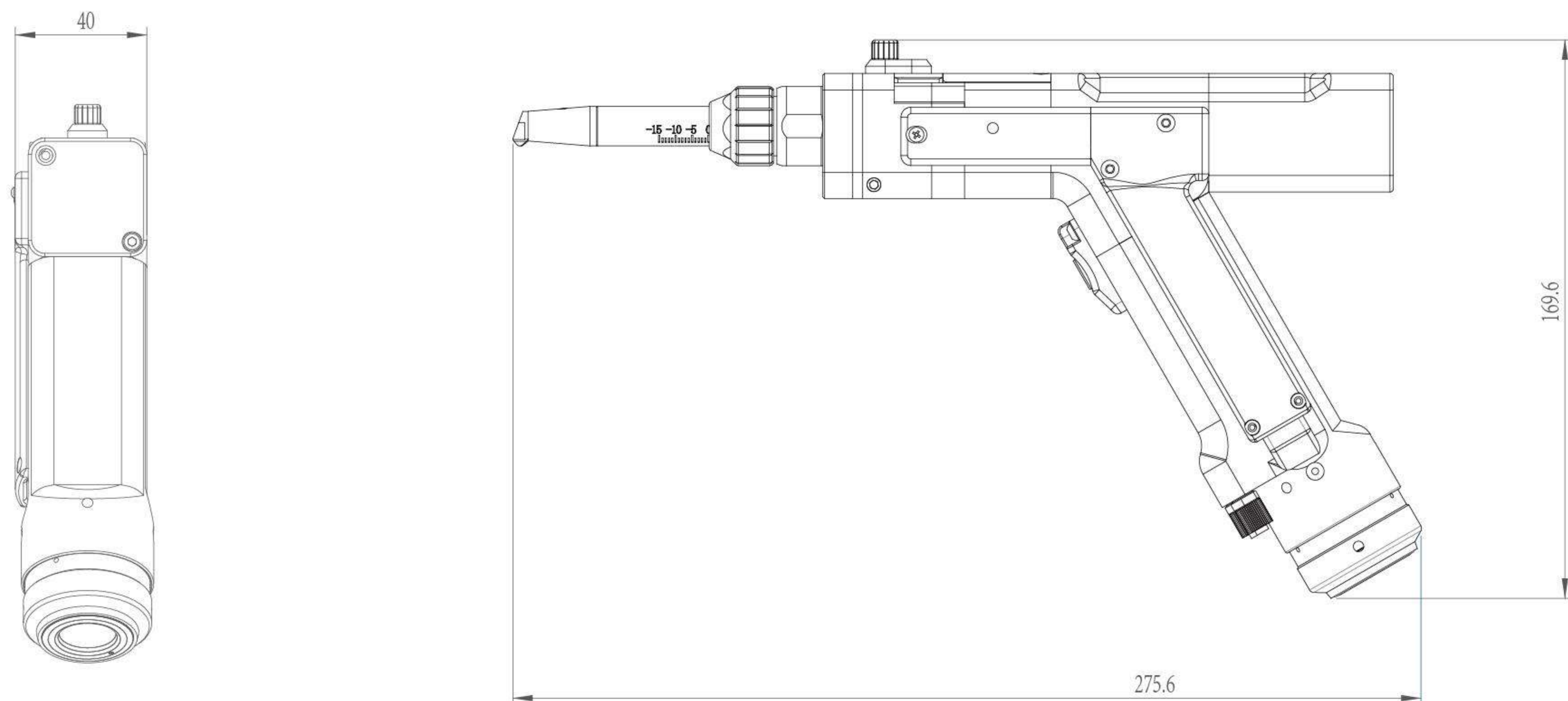
ND18A

Handheld Welding Head

PRODUCT FEATURES

- An economical and revolutionary solution for fiber welding.
- User-friendly operation controller makes welding easy-to-use.
- Compact design makes it held comfortably.
- Temperature control monitoring function provides real-time feedback on the temperature of the protection lens, and can freely set the reminder temperature and alarm temperature.
- Double protection lens structure, can provide better protection function.
- Focusing lens with drawer type structure, easy to maintain and replace.
- Copper nozzle connection tube adopts anti-slag structure, prolonging the service life of the lens.
- Motor wiring adopts terminal plugging type, high flexible wire connection, no conversion joint in the middle.
- Can be equipped with a variety of angular copper nozzle components to meet the needs of different products welding.
- Whole set of product including control system and touch panel.

PRODUCT SIZE



PRODUCT PARAMETERS

Max working power	Collimator focal length	Focus focal length	Weight	Adjustable width
2000W	50mm	150mm/180mm	1.0kg	0-4mm



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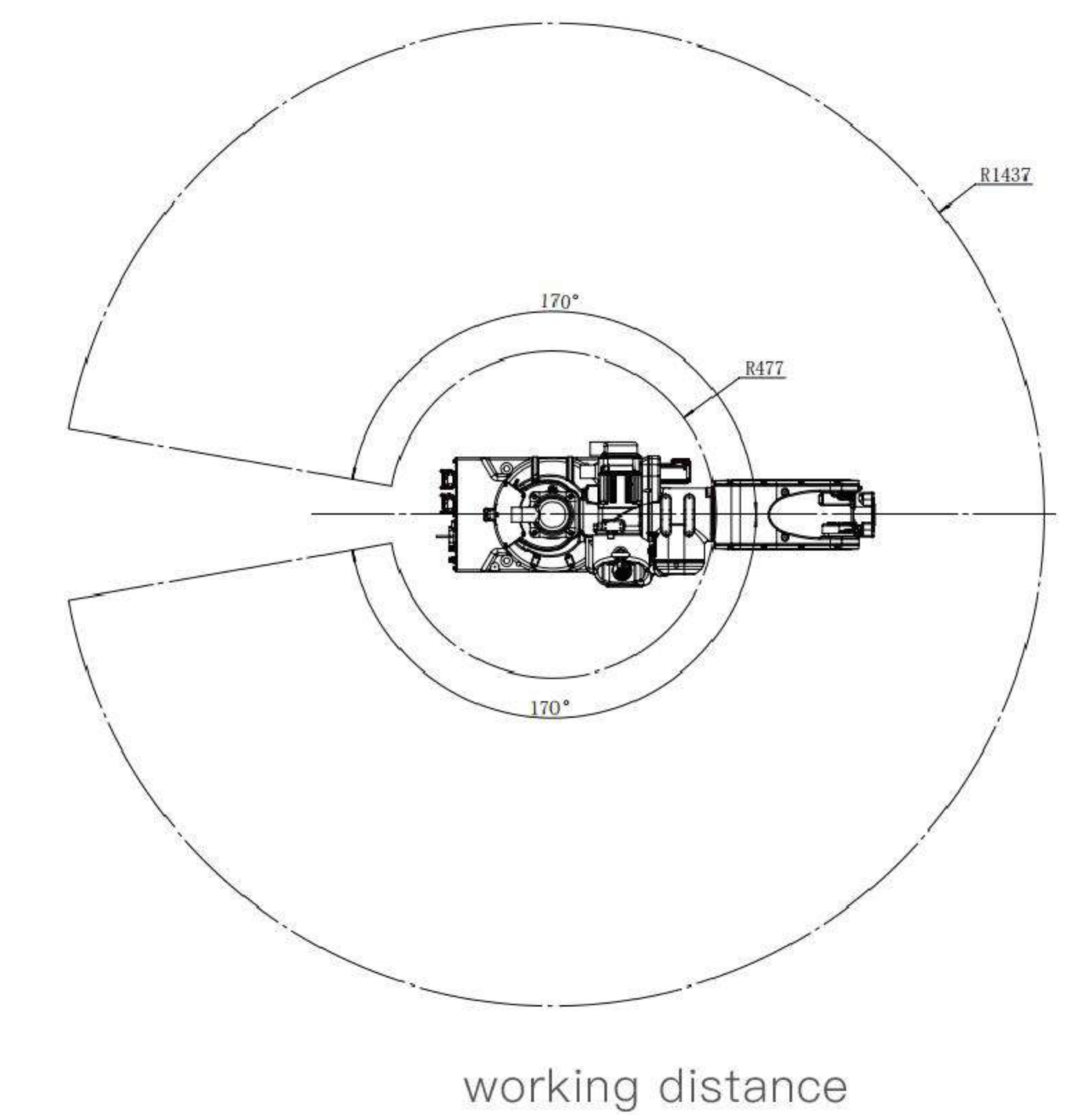
WSX1400-10

Robot arm

PRODUCT FEATURES

Model no.		WSX1400-10
Number of Axis		6
Movement radius		1437mm
Maximum load		10KG
Repeat positioning accuracy		±0.05mm
Maximum stroke	Axis 1	±170°
	Axis 2	90°-155°
	Axis 3	150°-85°
	Axis 4	±190°
	Axis 5	130°-105°
	Axis 6	±360°
Maximum speed	Axis 1	171°/S
	Axis 2	171°/S
	Axis 3	171°/S
	Axis 4	294°/S
	Axis 5	206°/S
	Axis 6	520°/S
Weight		175KG
Applications		Welding
Installation method		Ground, wall-mounted, upside-down
Air pipes		φ8x2
Circuit		0.3mm ² X12pin (aviation plug)
Protection level		Axis J5\J6: IP67; other: IP54
Installation Environment	Temperature	0~45°C
	Humidity	20-80% (No condensation)
	Vibration	Below 0.5G
	Other	Away from flammable and explosive corrosive liquid or gas, away from electrical interference sources

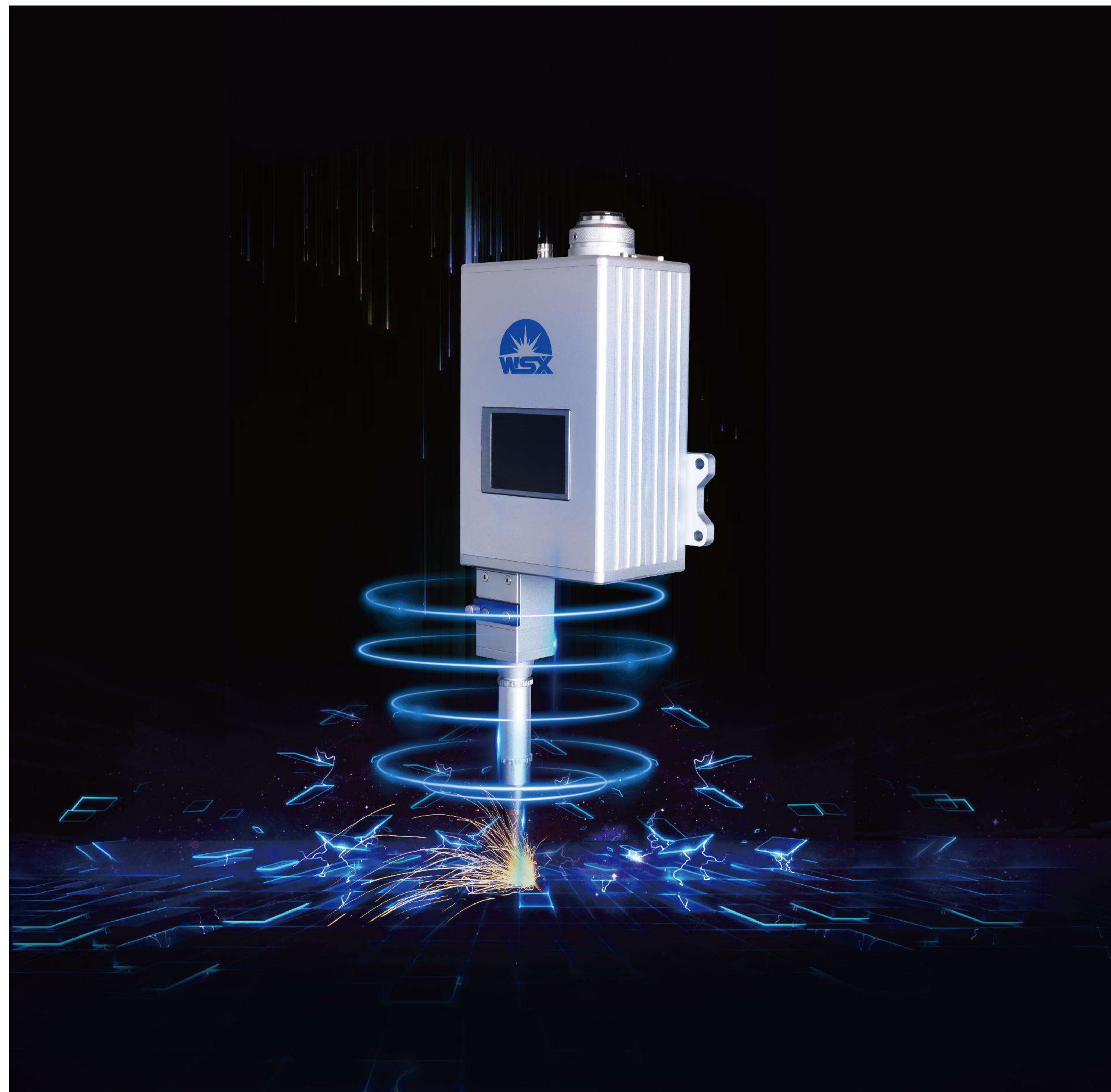
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STAR PRODUCT RECOMMENDATION



STAR PRODUCT RECOMMENDATION

