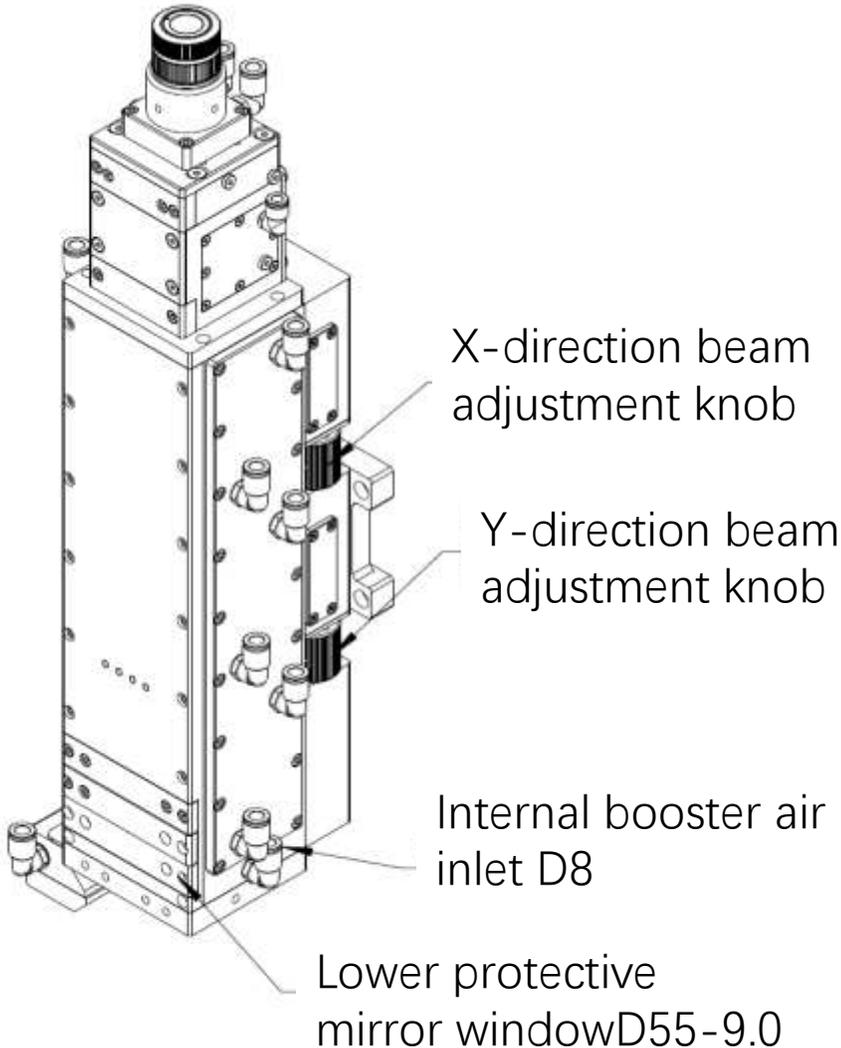
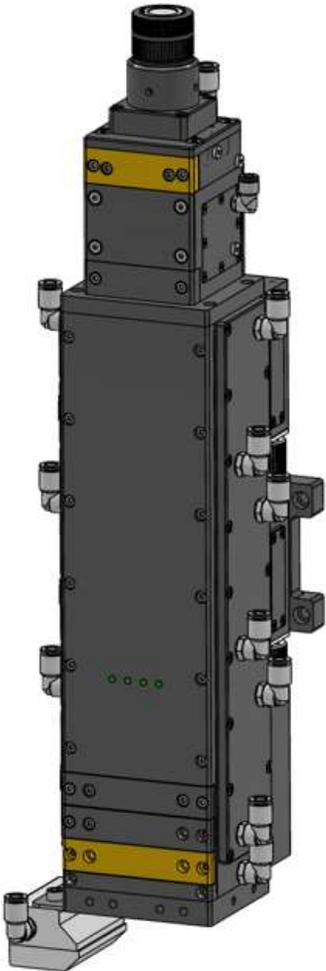
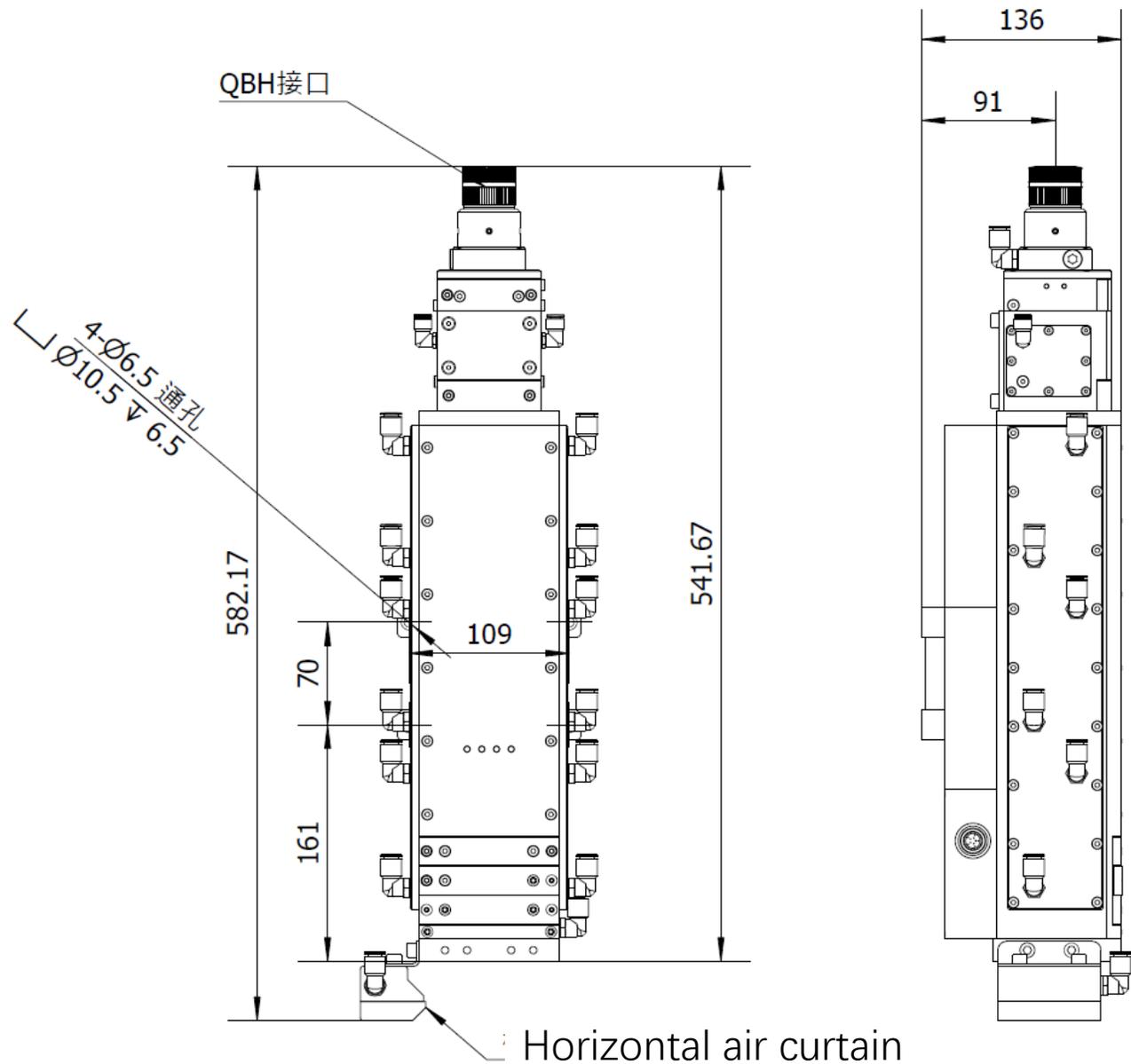


Overall rendering:



Installation dimensions  
diagram:

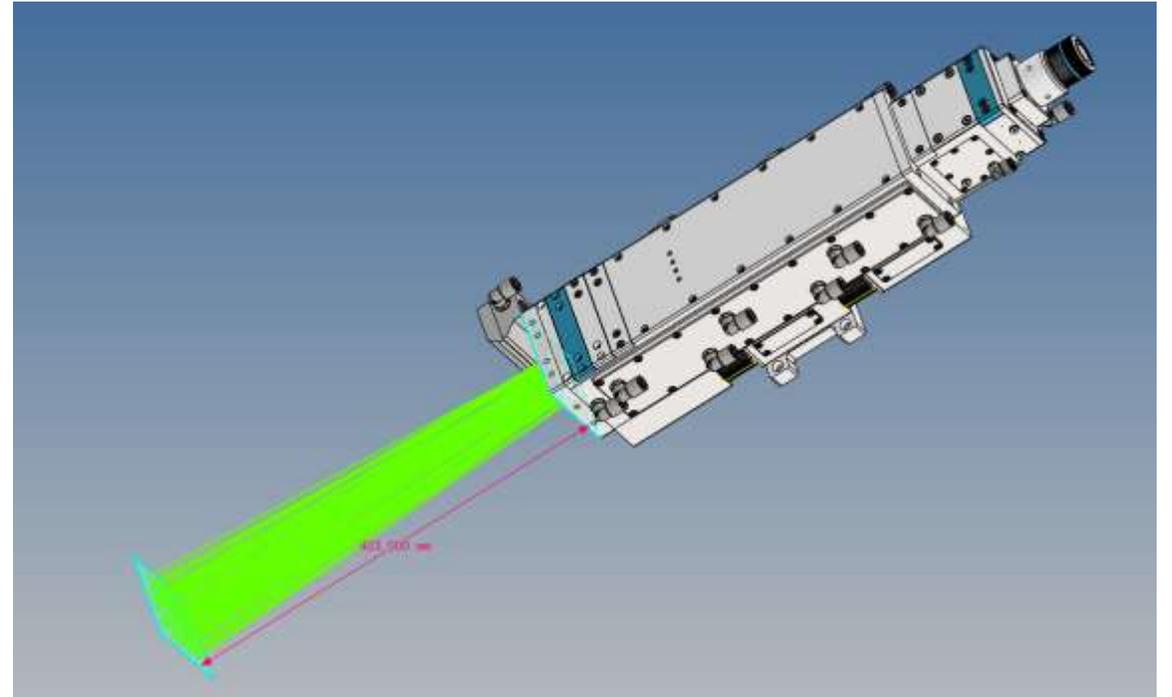


## Features and advantages:

- The body and powder delivery nozzle are fully water-cooled for excellent cooling performance;
- Its compact size and light weight make it easy to mount on specialized machines or robotic arms;
- Internal nozzle air-blowing protection prevents lens contamination and burnout;
- The rectangular light spot range is adjustable, facilitating processes such as quenching and heating;
- A double-layer lower protective lens drawer design facilitates easy replacement and maintenance;
- The upper protective lens provides superior sealing.

## Technical Parameters:

1. Fiber Optic Interface: QBH/LOE
2. Collimation Distance:  $F=100$
3. Focusing Focal Length:  $F=450$
4. Laser Power:  $\leq 12\text{KW}$
5. Upper Protective Lens: 40-3.5
6. Lower Middle Lens: 55-5.0
7. Lower Protective Lens: 55-5.0
8. Focal Spot Size: 5\*5
9. Aperture Diameter: 40mm
10. Laser Head Weight:  $\sim 8.5\text{kg}$
11. Processed Inner Hole Diameter:  $\geq 50\text{mm}$



The distance between the laser spot and the lower surface of the laser head is 403mm.

homogenized light spot effect diagram :

Spot size variation range:  
10\*10-70\*70mm;  
Spot uniformity > 90%.

