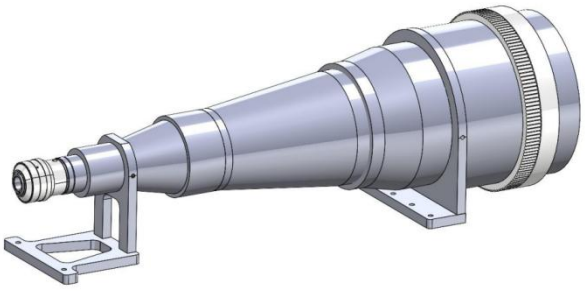
COLLIMATOR

QBH-1064-220-MAN

〉SPECIFICATION AND SPRODUCT ADVANTAGES:



1, the focus beam quality is high, the focus spot is small, only 9mm at 200 meters.

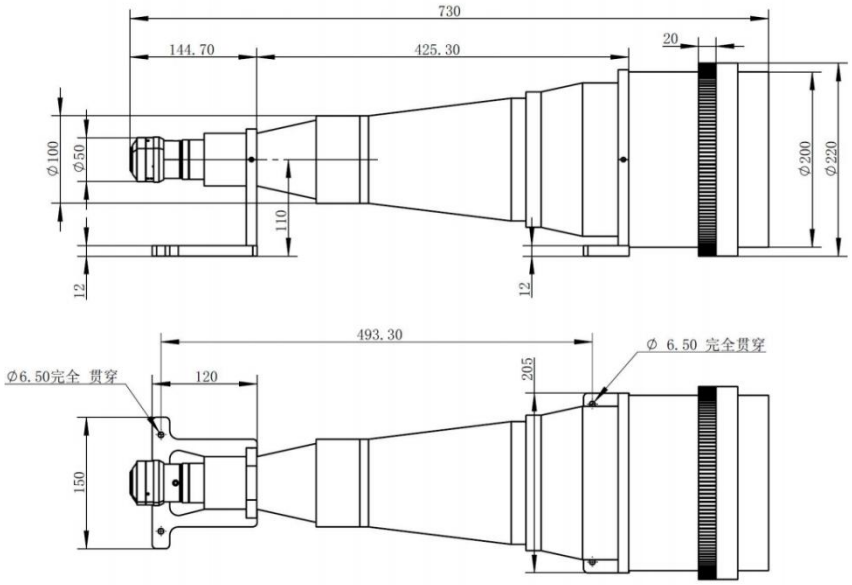
2, fully sealed design, dustproof and waterproof, in the harsh working conditions still keep the structure stable and reliable, stable optical performance.

3, modular design, can choose different configurations according to customer needs and working conditions.

The laser clearer can adjust and control the focus position of the 1064nm laser, so that it still maintains a small spot at a distance, with a strong laser energy density, using this laser energy to burn away obstacles. Combined with our custom-developed electric tuning, coaxial imaging, position indication and other functions, it can facilitate efficient long-distance laser clearance operations.

Focal Distance	F600mm
Clear aperture	165mm
Perforated Coating Tape	1030-1090nm
Cooling method	Natural air cooling
Threshold of Damage	10KW CW
Fiber optic interface	QBH(HLC-8 IPG)
Laser Dispersion Full Angle (1/e2)	240mrad
Installation Size	Φ6.5 Throughhole (with M6 screw)
Lens material	Melted Quartz
Weight	About 22Kg
Length	730mm
Outer Diameter	220mm
Focus mode	Manual Rotary Focus with Position Scale
Laser power	3000W
Laser core diameter	20um
Laser Beam Quality BPP	1.2mm*mrad

〉DIMENSIONS



COLLIMATOR

QBH-1064-220-MAN

〉CORRESPONDING RELATIONSHIP BETWEEN WORKING DISTANCE AND FOCUSED SPOT

The following are theoretical calculation values, without considering the influence of air and installation measurement errors

Focus Distance (meters)	Focusing Spot mm (20um core diameter)	Scale Value
50	7.2	0
100	7.8	1.333
150	8.0	4.435
200	9.0	4.985
500	33.4	5.972
1000	52.9	6.301
2000	111.4	6.465
3000	150.0	6.52

〉INSTALLATION AND USAGE REQUIREMENTS

1.The recommended operating temperature is 25 ± 15 ℃, and using it outside of this temperature range will significantly affect its optical performance..

2. The focal scale and actual focal point size and position are based on theoretical simulation calculations, which may deviate from reality. The main influencing factor is the laser emission position, M2， The actual air environment and theoretical values are used as trend references, and ultimately need to be calibrated using the customer's actual laser.

3. When using high-power optical lenses, attention should be paid to dust prevention, and protective covers should be promptly covered after use.