

As series CO₂ laser tube



Technical parameter

Model	Length (mm)	Rated Power (W)	Max. Power (W)	Dia. (mm)	Ignition Voltage (KV)	Working Voltage (KV)	Working Current (mA)	Recommended working current (mA)	Catalyst	Power Stability (%)	Application	Warranty (M)
A0s	600	28	35	Φ80±2	12	8	20	16	yes	≤±5	Engraving,Cutting	6
A1s	1100	75	90	Φ80±2	20	15	22	18	yes	≤±5	Engraving,Cutting	10
A2s	1250	90	100	Φ80±2	25	18	26	21	yes	≤±5	Engraving,Cutting	12
A4s	1450	100	130	Φ80±2	28	19	28	22	yes	≤±5	Engraving,Cutting	12
A6s	1650	130	160	Φ80±2	30	21	30	24	yes	≤±5	Cutting	12
A8s	1850	150	180	Φ80±2	34	22	35	28	yes	≤±5	Cutting	12

Product performance

F

ive details

highlighting professional quality



American II-VI lens
Customized, Excellent beam mode
1624436711982780.jpg
Full metal structure for Anode & Cathode ends.
Unique heat dissipation design to largely reduce lens temperature during laser working process.



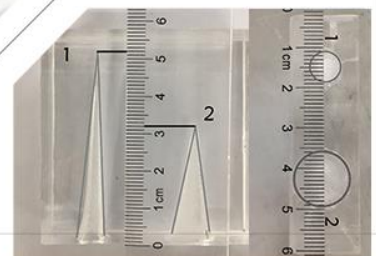
The latest 3rd generation coating techniques.
Upgraded catalytic reduction performance, longer working lifespan, more stable working performance.

German Schott tube
Incoming materials quality control.Stable cavity structure



Beam convergence

Under the same test conditions, with the new processing techniques, the spot is more rounded and the burning cone is sharper and taller.



Applications



Advertising processing



Sole upper processing



Packaging processing



Clothing processing



Cloth processing

Product packaging



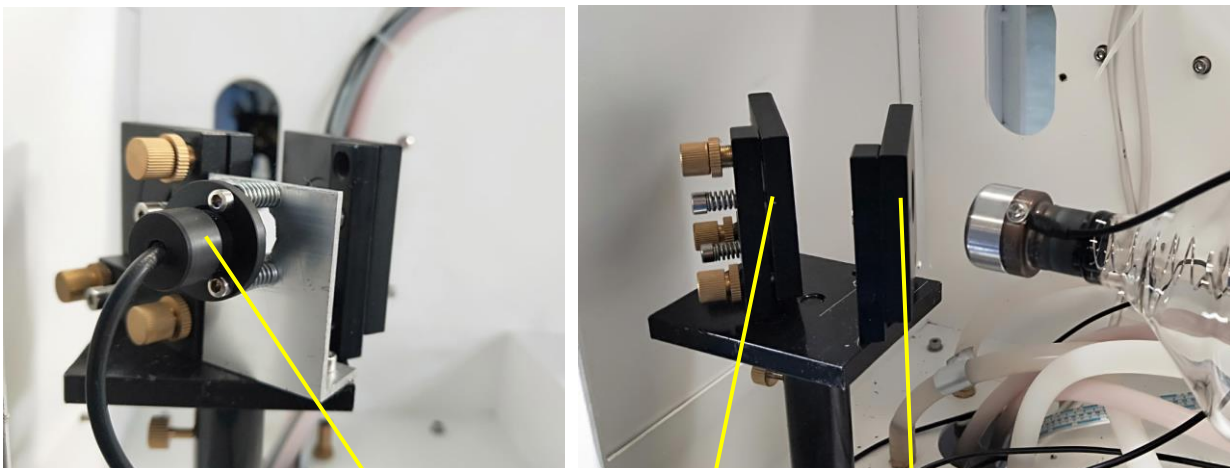
High-Performance

Model	Yongli A2s Co2 Laser Tube
Rated Power	90 W
Peak Power	100 W
Length	1250 mm
Working Current	26 mA
Rmd Working Current	21 mA
Ignition Voltage	25 kV
Working Voltage	18 kV
Outer Diameter	φ80 mm
Working Life	12000 Hours
Catalyst	YES, Islands Structural (Gold) Coating
Warranty	12 Months

1. **Yongli coaxial red light.** The red light (the part with red color as shown in the photo below) device is installed at the negative pole (laser comes from this end) of the Yongli As series laser tube. Laser beam and red light beam overlap and they are in the same light path, no need to adjust or align the red light path. This design is very user friendly, easy for laser path alignment, because laser is invisible, and the red light path is the laser path, you can see the red dot on mirrors, so that you can know how to adjust the laser dot position accordingly. The red dot position is the laser dot position.



2. The RECI brand laser tube does not have above coaxial red light design. And we have to put a red light generator and an extra *beam combiner* to combine laser beam and red light beam together. The red light needs your adjustment and alignment. The red dot generator and beam combiner is shown in below photo.

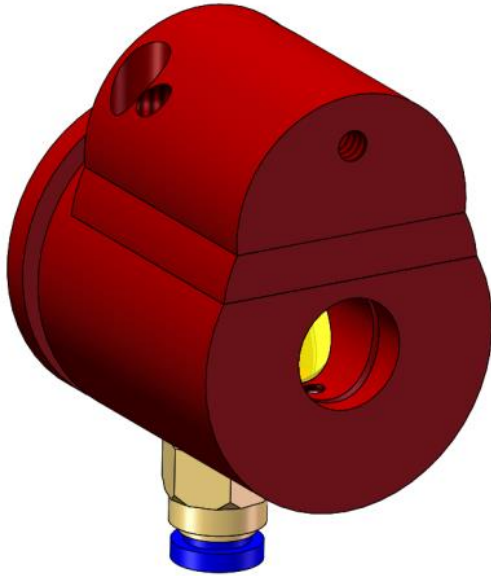


Red light generator

mirror

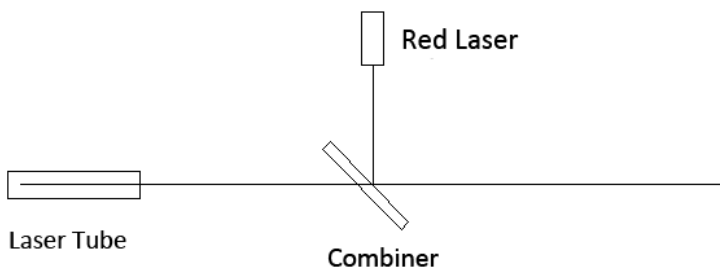
beam combiner

Red Light Indicator User Manual



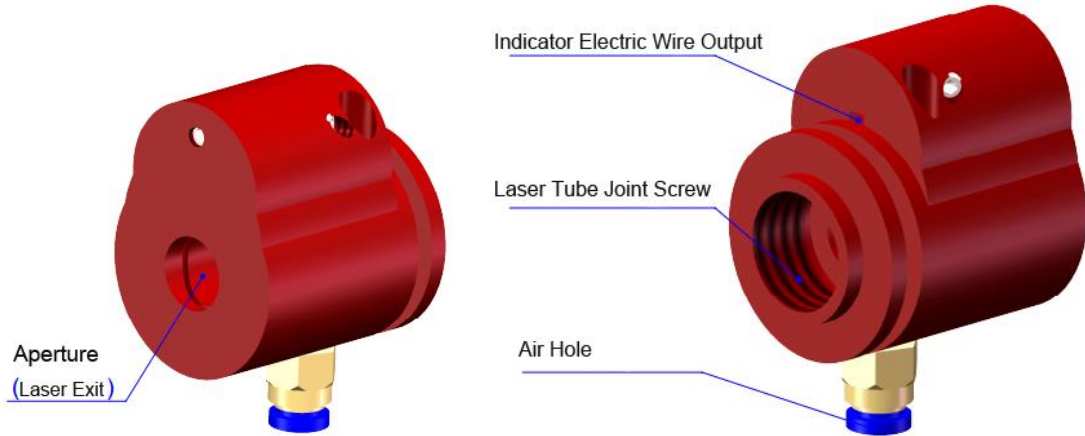
Attention: air blowing can effectively reduce the working temperature and prevent dust from contaminating the lens. Product failure caused by lack of air blowing or insufficient air volume shall be borne by the user

1.Working Principal



PIC. 1

2.Structure Drawing



PIC. 2

Aperture (Laser exit): Exit of laser and indication beam.

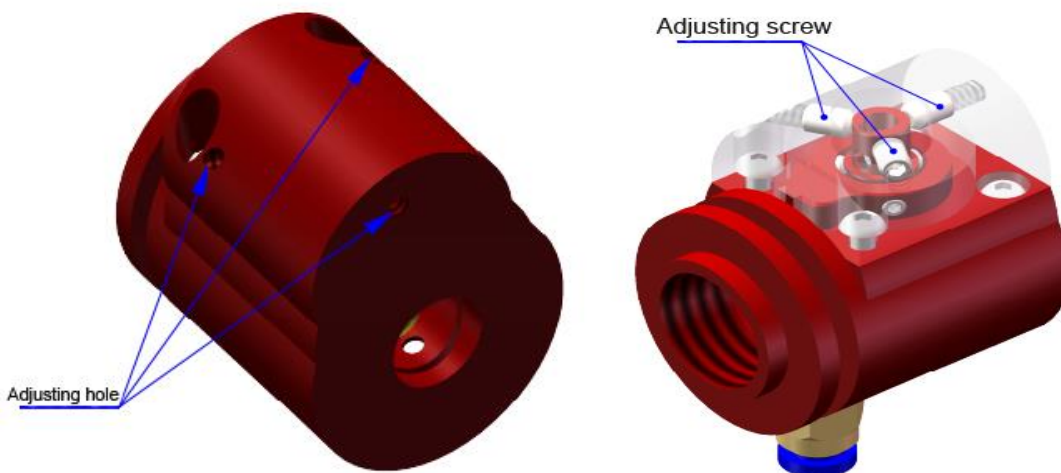
Air Hole: Apply for flexible air tube of $\phi 4\text{mm}$, air flow requirement: 150~450L/Min

Laser tube installation dimension: M18 \times 0.75。

Electric requirements: 4.5~5VDC (Red: Positive. Black: Negative)。

3.Alignment

Indication beam alignment

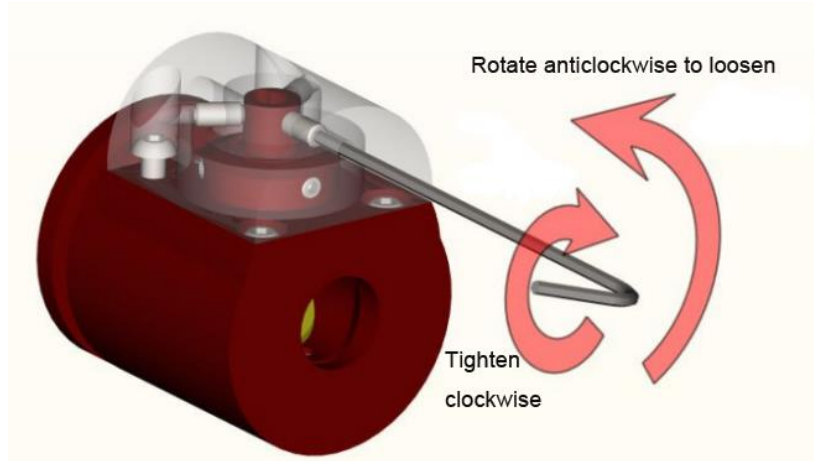


PIC. 3

Place the indicator on laser tube, and rotate laser tube ensure the adjusting hole upwards, like PIC 3

Please take a beam spot at the point 3-4m distance from output of laser tube (depends on your machine working area). Slightly unscrew the adjusting screws to align the indicator position by a 2mm Allen wrench, as show in

Picture 4



PIC. 4

The front adjusts screw to adjust the vertical position; the two side adjusting screw to adjust the horizontal position.

Explanation of adjustment principle

Relying on 3 pieces screws to squeeze the indicator light housing to adjust the angle of the indicator light beam, so that changes indication light indicates the position.

During the aligning, should be to unscrew one or two adjusting screw in advance, then to screw tight other adjusting screws.