

# User Manual

**Product Model : C100 100W CO2 Laser Tube**

## CO<sub>2</sub> Laser Tube

# 100W



## C100

|        |        |
|--------|--------|
| Length | 1450mm |
| Dia.   | 80mm   |

### Product Instruction :

Professional co2 glass laser tube, mainly used in laser engraving machine, laser cutting machine. It is a spare part for laser machines that can engrave and cut acrylic, cloth, leather, bamboo, wood ,paper and most of other non metal materials. Our CO2 laser tube in model#C100 100W

**(1450mm\*80mm) adopts the uses German Schott discharge tube and special coating technology to improve the performance of the laser tube. It is definitely your best choice.**

## **Features & Details :**

**1、【HIGH TEMPERATURE RESISTANCE】 - This co2 laser tube is made of the boron silicate glass that is also applied on the solar tubes. It is resistant to high temperature and high pressure.**

**2、【TEM00 MODE】 - This co2 laser tube adopts the TEM00 mode, which is characterized by high spot concentration, high energy density as well as good and stable spot. At the same time, the use of output mirrors further enhances the mode.**

**3、【SPECIAL COATING TECHNOLOGY】 - The inside of the discharge tube (imported German Schott tube)uses the special coating technology. The coating is a reduction catalyst mixed with materials such as rare earth and gold.**

**4、【LONGER SERVICE LIFE】 - Our service life of discharge tubes coated with special catalysts is much improved. Compared with other same kind laser cutting tubes, our 100W co2 laser can last longer.**

**5、【VARIOUS APPLICATION】 - Model#C100 100W co2 laser tube is very Professional, as the main spare parts of co2 laser engraving and cutting machine, it supplies for the strong energy “laser” during engraving and cutting.**

### **Technical Parameters :**

**Rated power output: 100W**

**Length: 1450mm**

**Beam diameter: 5mm**

**Wavelength: 10.6um**

**Material: Boron Silicate Glass**

**Outer diameter: 80mm**

**Trigger voltage: 24KV**

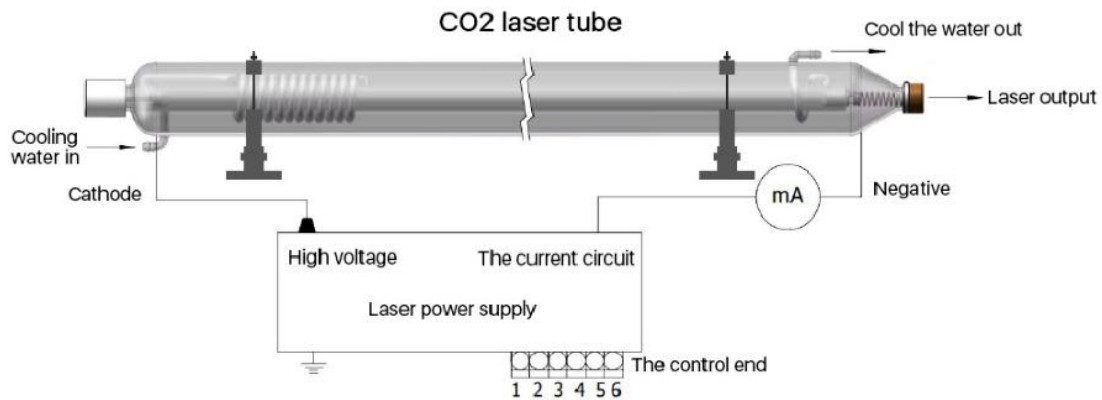
**Working voltage: 17KV**

**Optimal operating current: 23mA**

**Gross Weight: 6.1kg(13.45lbs)**

**Package Size: 160.8 x 17.5 x 20.5cm/63.31 x 6.89 x 8.07inch**

## Installation Drawing :



# CO<sub>2</sub> Laser Tube

## Product List

| Model#               | C40                  | C50    | C60    | CL80   | C80    | C100   | C130   | C150   | C170   |
|----------------------|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Rated power (W)      | 40                   | 50     | 60     | 80     | 80     | 100    | 130    | 150    | 170    |
| Max power (W)        | 50                   | 70     | 80     | 100    | 100    | 130    | 150    | 170    | 180    |
| Length (mm)          | 700                  | 850    | 1200   | 1600   | 1250   | 1450   | 1650   | 1650   | 1850   |
| Diameter (mm)        | 50                   | 50     | 60     | 60     | 80     | 80     | 80     | 80     | 80     |
| Catalyze or not      | yes                  | yes    | yes    | yes    | yes    | yes    | yes    | yes    | yes    |
| Wave length          | 10.6um               | 10.6um | 10.6um | 10.6um | 10.6um | 10.6um | 10.6um | 10.6um | 10.6um |
| Diode current (mA)   | 5                    | 5      | 5      | 5      | 5      | 5      | 6      | 7      | 7      |
| Diode voltage (KV)   | 17                   | 18     | 19     | 28     | 23     | 24     | 28     | 30     | 32     |
| Working Voltage (KV) | 10                   | 15     | 16     | 19     | 16     | 17     | 18     | 22     | 23     |
| Beam diameter (mm)   | 4                    | 5      | 5      | 5      | 5      | 5      | 5      | 6      | 6      |
| Suggest EC (mA)      | 18                   | 17     | 18     | 20     | 22     | 23     | 24     | 28     | 30     |
| Max EC (mA)          | ≤20                  | ≤20    | ≤20    | ≤25    | ≤25    | ≤25    | ≤25    | ≤30    | ≤30    |
| Stability            | ≤±10%                |        |        |        |        |        |        |        |        |
| Cooling              | Water cooling 15-30℃ |        |        |        |        |        |        |        |        |