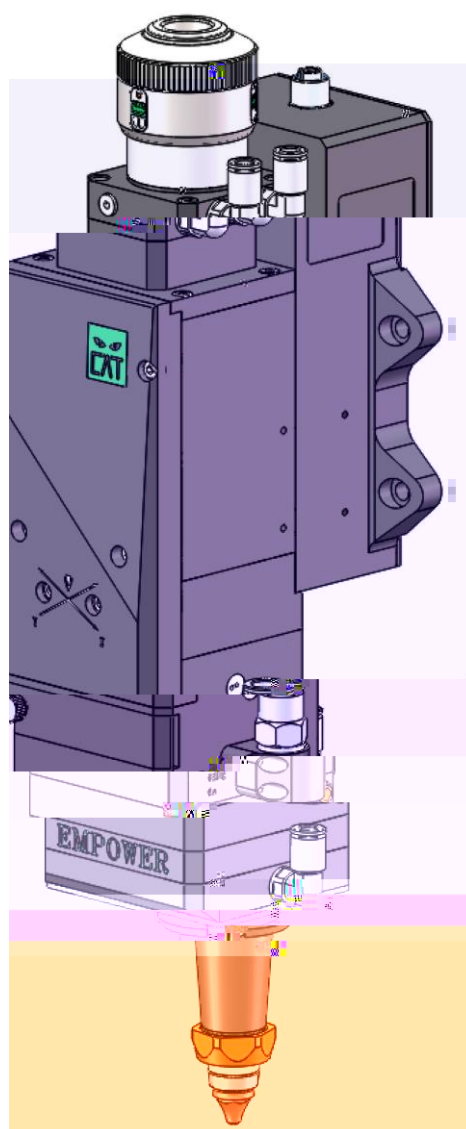


BS03K-CAT 3D

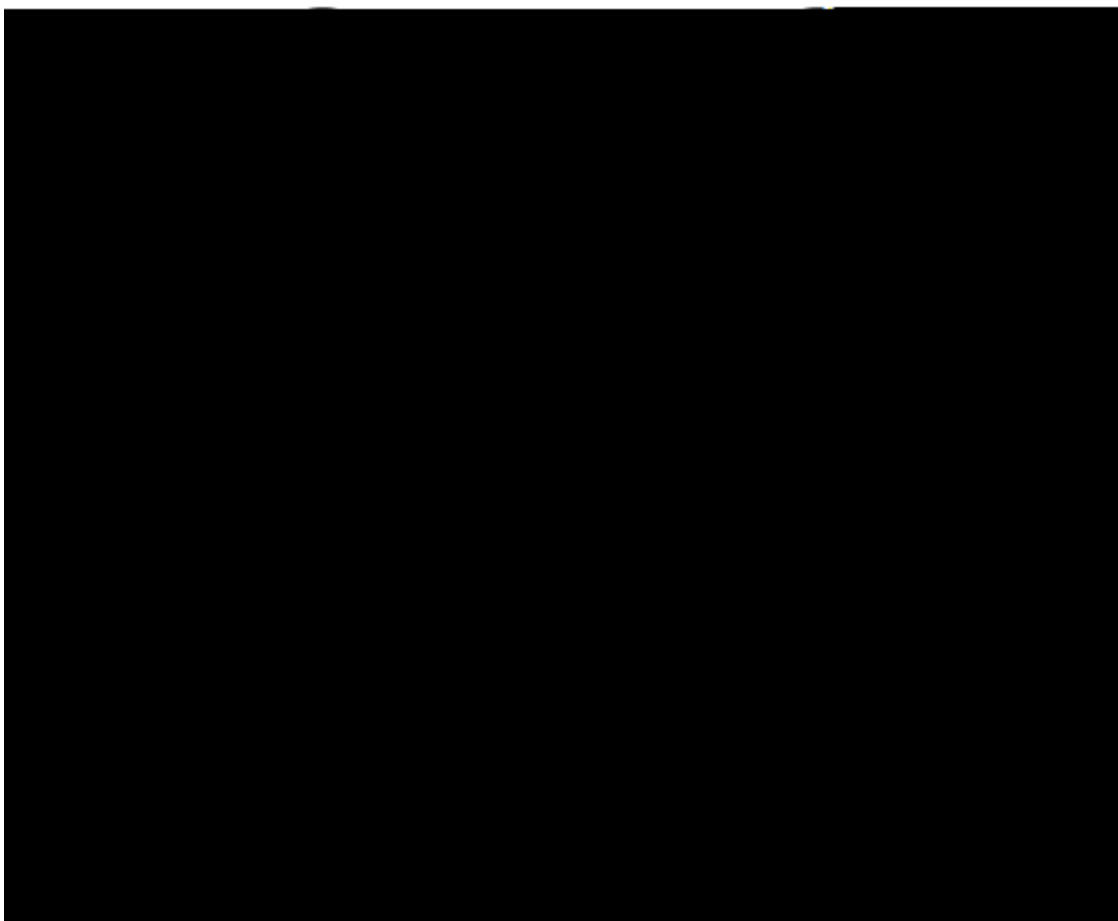


Safety Instructions

Prevent Electric Shock

1 Product Summary

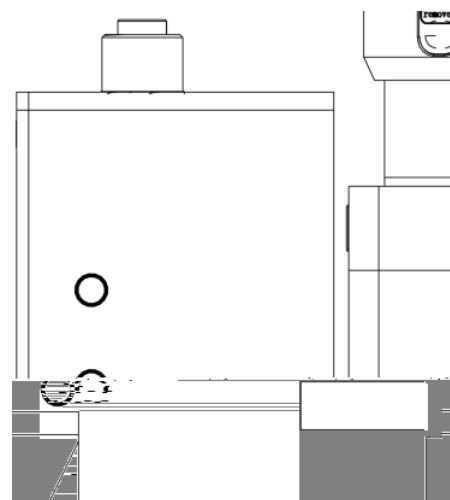
1.1 Structure (with QBH Interface)



1.2 Monitor



1.3 LED

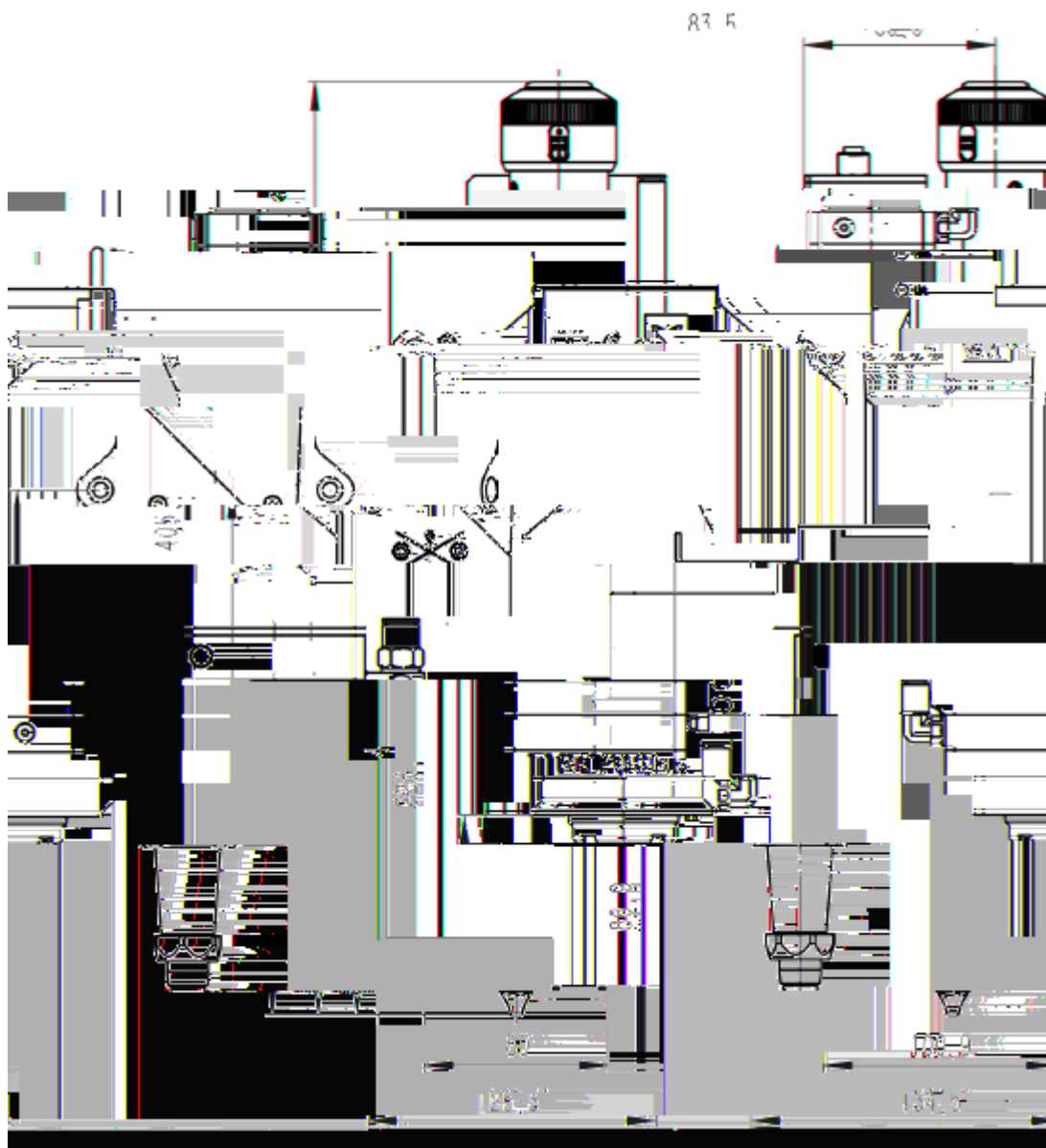


1.4 Technical Datasheet

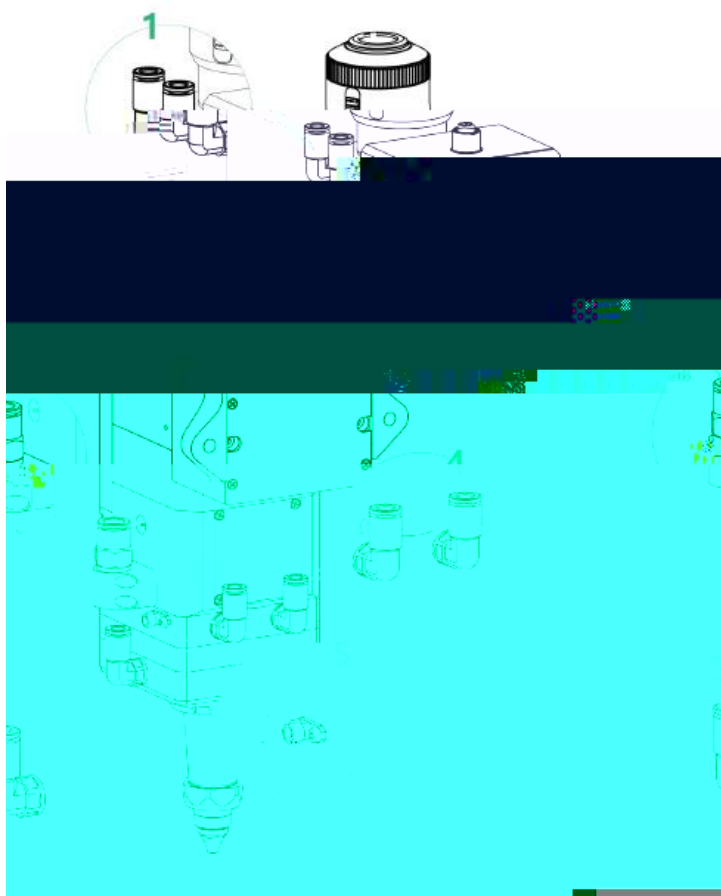
[illegible]

1.5 Mechanical Size

Optical Configuration: 100:200



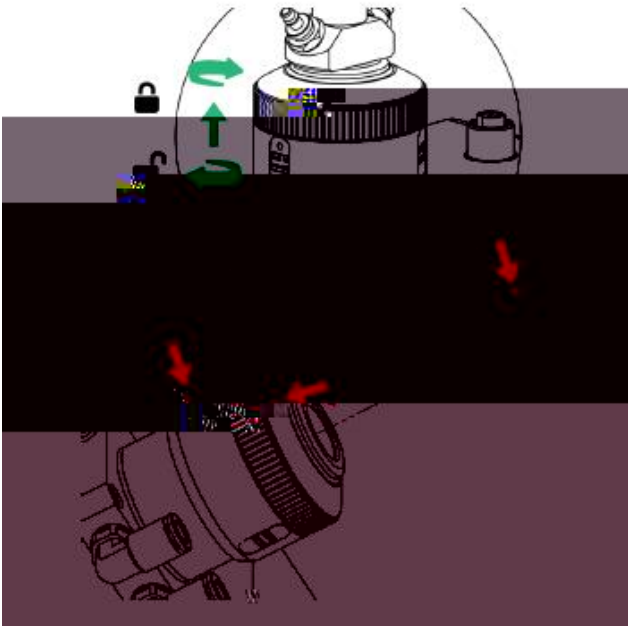
1.6 Physical Interface



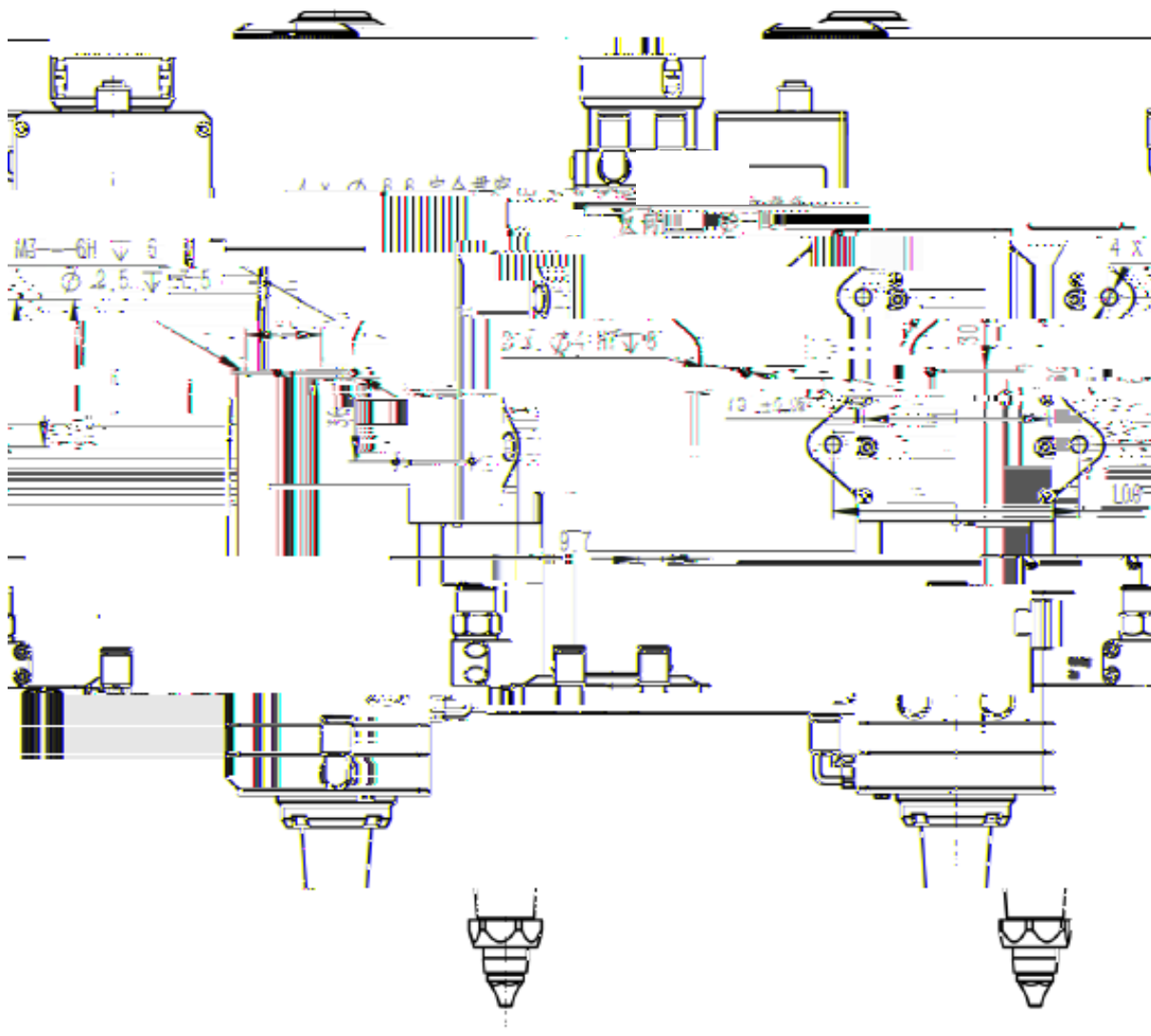


WARNING:

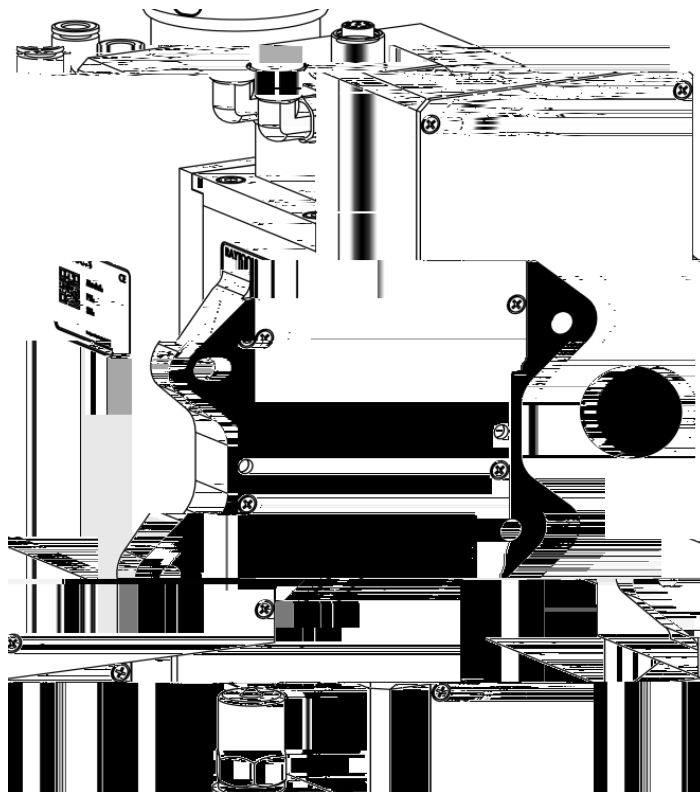
2.1.1



2.2 Mounting of Laser Cutting Head

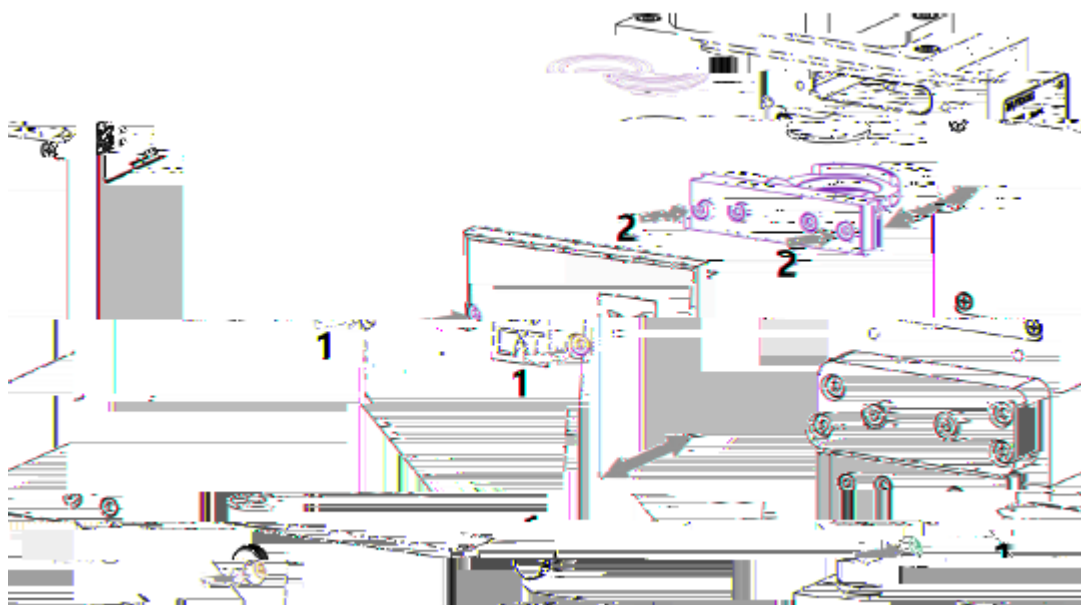


2.3 Earthing of Laser Cutting Head



2.4 Inspection of Top Cover Glass (1st Installation/Replacement of Fiber)

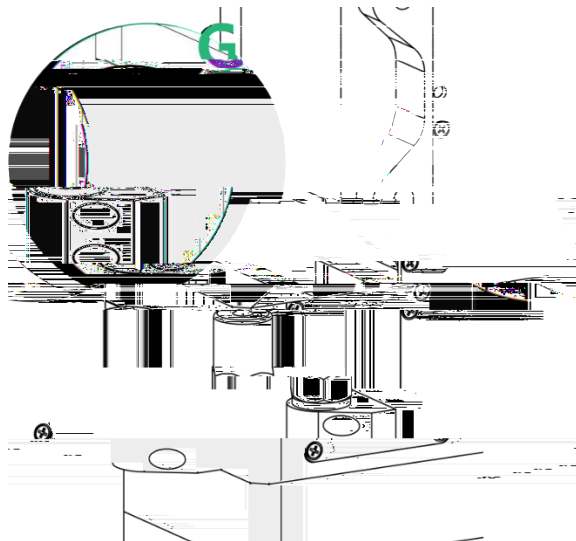
Maintenance or Repair shall be implemented at dust free workstation.



The cover glass shall be replaced if it cannot be cleaned or a damage happens.

2.5 Connection of Cooling Water and Assist Gas

2.5.1 Connection of Cutting Gas

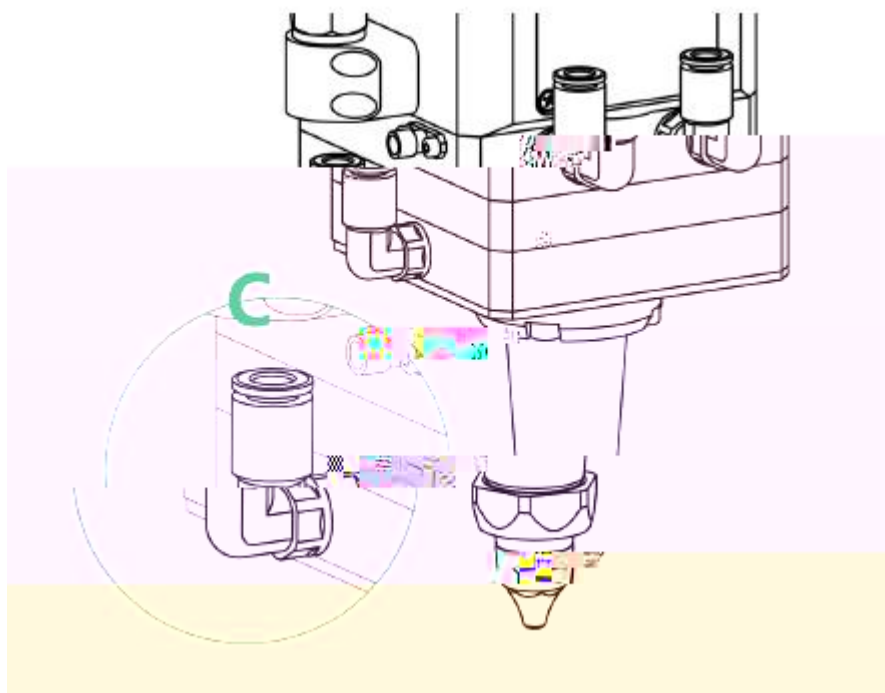


Gas

Purity

CAUTION: Gas interface cannot be replaced arbitrarily especially do not use PTFE TAPE. Otherwise the gas path will be blocked and cannot do normal cutting which will damage cutting head at the same time.

2.5.2 Connection of Nozzle Cooling Gas

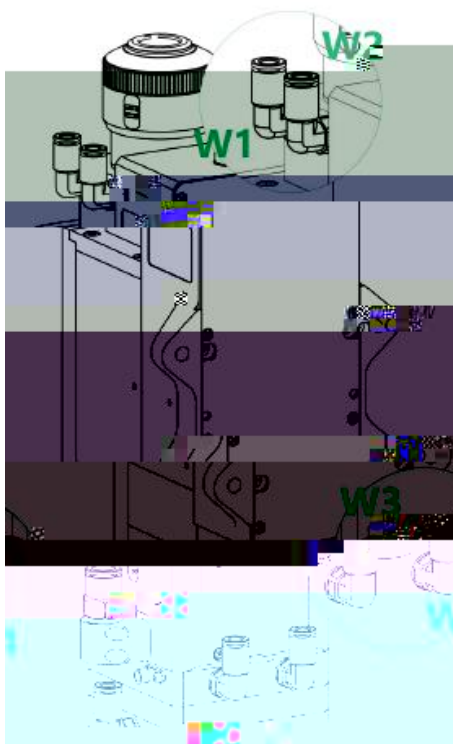


Dried N2 or fine filtered air is recommended for nozzle cooling. The O2 is prohibited for nozzle cooling.



CAUTION: Gas interface cannot be replaced arbitrarily especially do not use PTFE TAPE. Otherwise the gas path will be blocked and cannot do normal cutting which will damage cutting head at the same time.

2.5.3 Connection of Cooling Water



W1 & W2: cooling pipe of fiber interface

Laser head

Brand
Model
RS03/06/12/20/40/60K-CAT

Focus adjmt
Motor direction
Positive

Homing mode
Increment

Manual Speed
Speed: 0.30m/min
Manual feed: 0.60m/min

Auto Speed
Speed: 6.00m/min
Acceleration: 1500.00mm/s²
Acc time: 100ms

Protective mirror alarm temperature setting
Protect Temp Alarm
Temp alarm: 50.00 °C
Temp increase % alarm: 14.00 %

Har & Dis: 40.00mm
Current limit: 0.00
Back limit range: -32.00 ~ 32.00 mm

OpticalRatioAndVer
Version: (1)100:200
ViewFirmwareVerAndCheckPar

Gas Pressure Parameter Setting
Detect gas
Deviation allowable: 70.00 % Deviation allowable: 20.00 %
Scattered light alarm设置
Scattered light alarm: 1950.00

DewPointAlarmSet
Dewpoint Temp 0.00 °C and Temp dewswVal...

Cavity Alarm Temperature Setting
Cav Temp Alarm
Temp alarm: 40.00 °C Temp alarm: 50.00 °C

Focus control port/servo
Node 5:调焦Axis
Use Cavity Focus
Restore default data

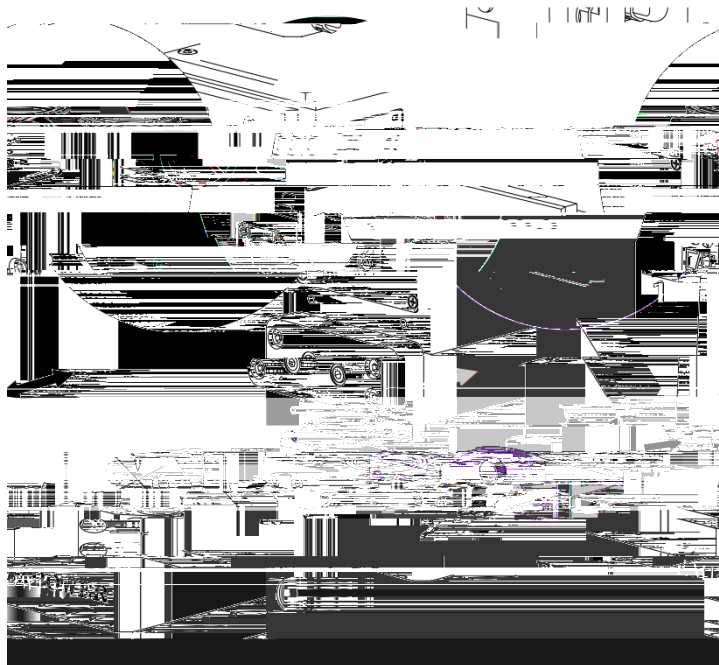
4 Beam Alignment

5

5.2 Removal and Installation of Lenses

5.2.1 Removal and Installation of Bottom Cover Glass/Protection Glass

5.2.2 Removal and Installation of Middle Cover Glass/Protection Glass



It is not allowed to pull out the edge of seal ring directly as it is very easy to damage the seal ring. Please wear the clean gloves or fingertips.

5.3 Replace Ceramic Body and Nozzle