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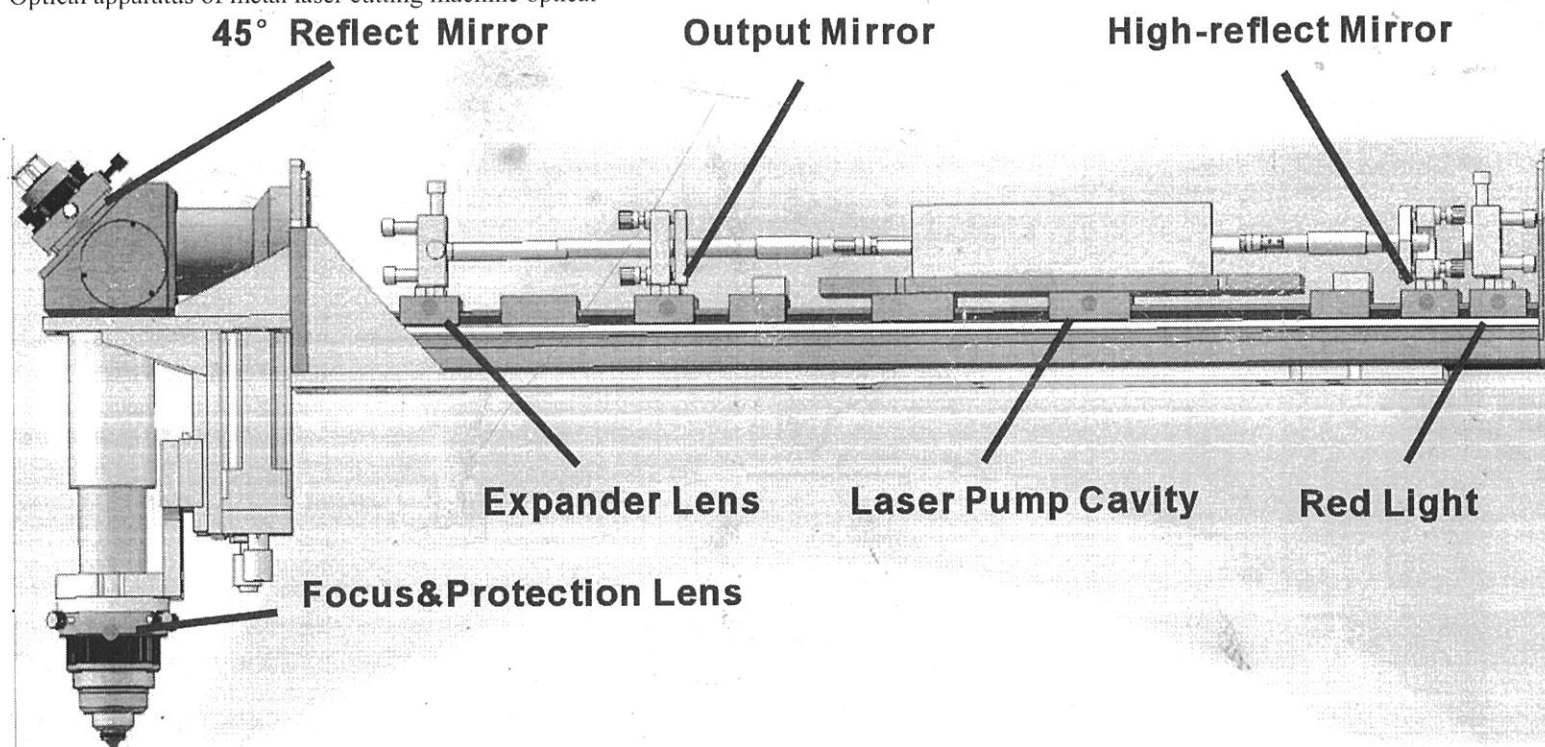
STOCK NUMBER
300220

YAG 调光指导

Instruction for YAG light alignment

金属切割机光路器件介绍

Optical apparatus of metal laser cutting machine optical





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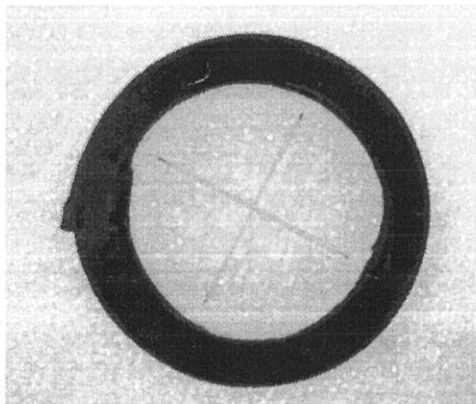
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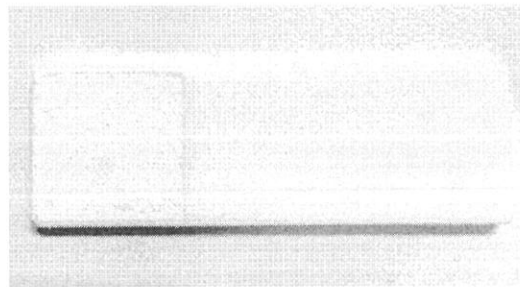
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调光准备：光靶、调光片

Preparation for light-dimming: Light target and alignment device



光靶
Light target



调光片
convert film

光路调整：

第一步、确认红光

首先从机器上将扩束镜取下，然后再安装光靶，通过调整调节旋钮将红光在光靶中心。

First step: Adjust the red light

First take down the expander lens form the machine and then put the light target on. Align the red light dot to make sure it is on the center of the target by turning the adjustment knob.



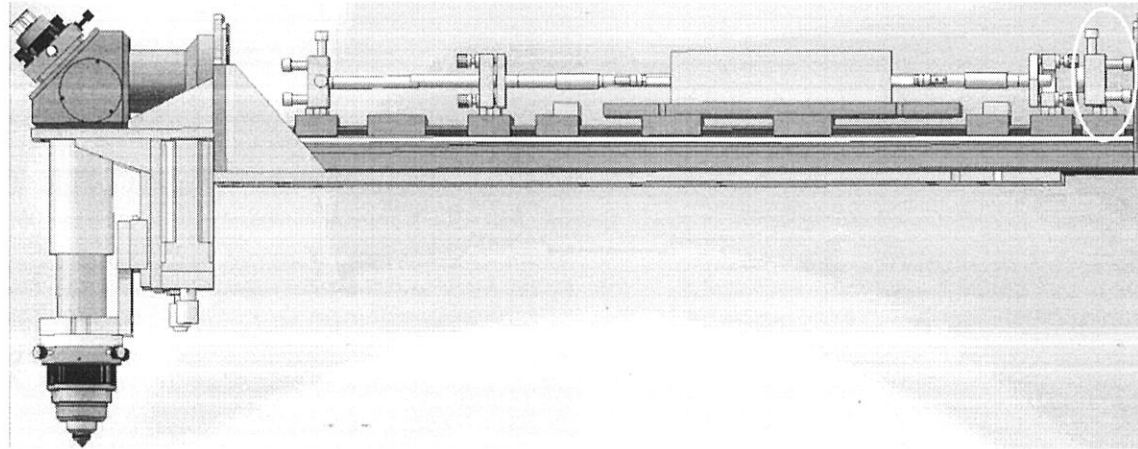
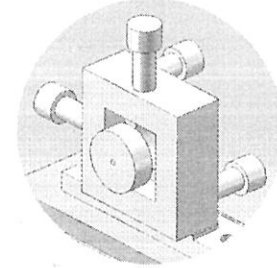
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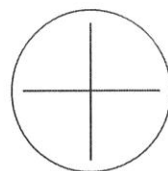
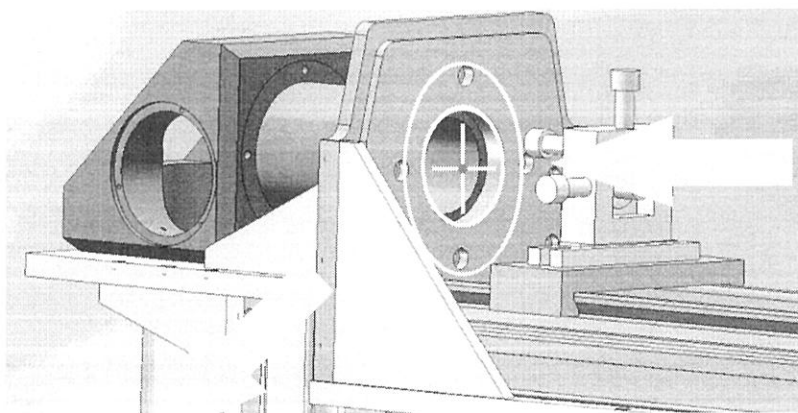
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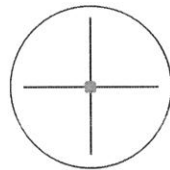
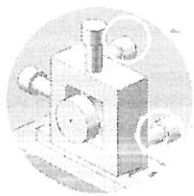
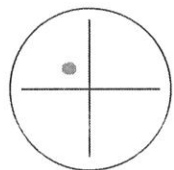
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light target

adjustment knob



第二步，检查红光是否经过所有镜片中心（如下图位置 1-8）

用塑料胶片一个个检查，如果红光不在镜片中心则需调整镜座位置，让红光从中心出来。

Second step: Check the red light to make sure whether it goes through the center of all the lenses.

Use the plastic film to check the red light one by one. If the red light does not go through the center of the lenses, please adjust the location of the lens base.



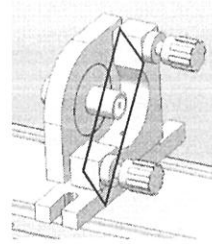
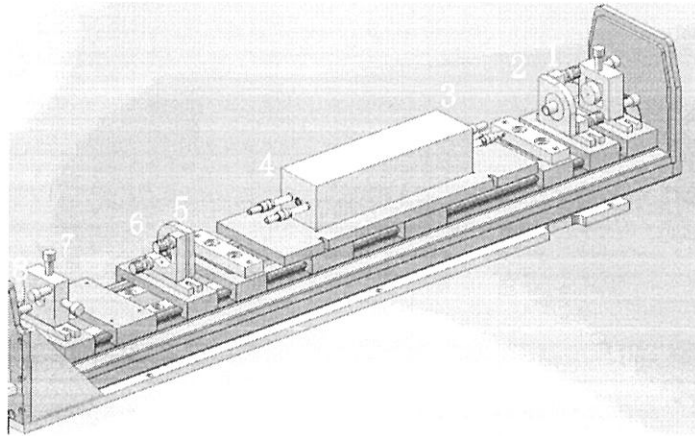
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第三步，检查高反镜和保护镜的反射红光

检查红光处是否有从高反镜或者保护镜反射过来的红光

Third step: check the reflected red light of the high-reflect mirror and protection mirror.



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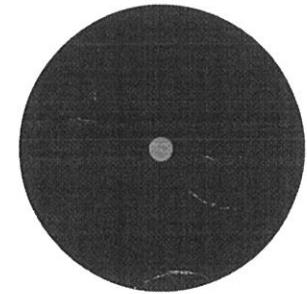
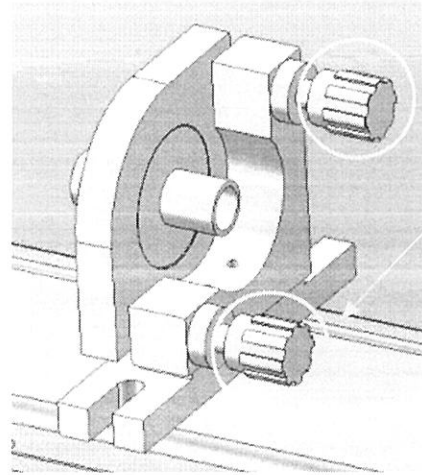
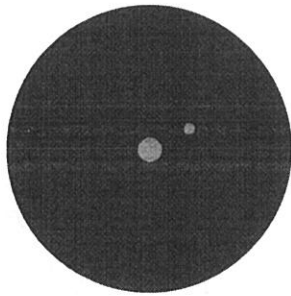
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adjustment knob



第四步，出光检查

在电源上设置

频率：100HZ

脉宽：0.9ms

电压：410V

Fourth step: check the output light

Set the power supply

Frequency: 100HZ

Pulse width: 0.9ms

Voltage: 410V



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***** Manual Setting *****

410.0V

0.0A

0.0KW

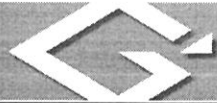
FREQUANCE: 100HZ

PLUSE: 0.9MS

VOLTAGE: 410V

把调光片放在输出镜的前面,按 preadjust 按钮出光。机器出光的同时调节高反镜的调节旋钮,找到激光。此时会有一个圆形的绿光和红光显示在调光片上。

Put the convert film in front of the output mirror and press preadjust button. Then the light comes out. At the same time, please turn the adjustment knob to find the laser beam. At this point, there will be a round green light area and a red light dot on the convert film.



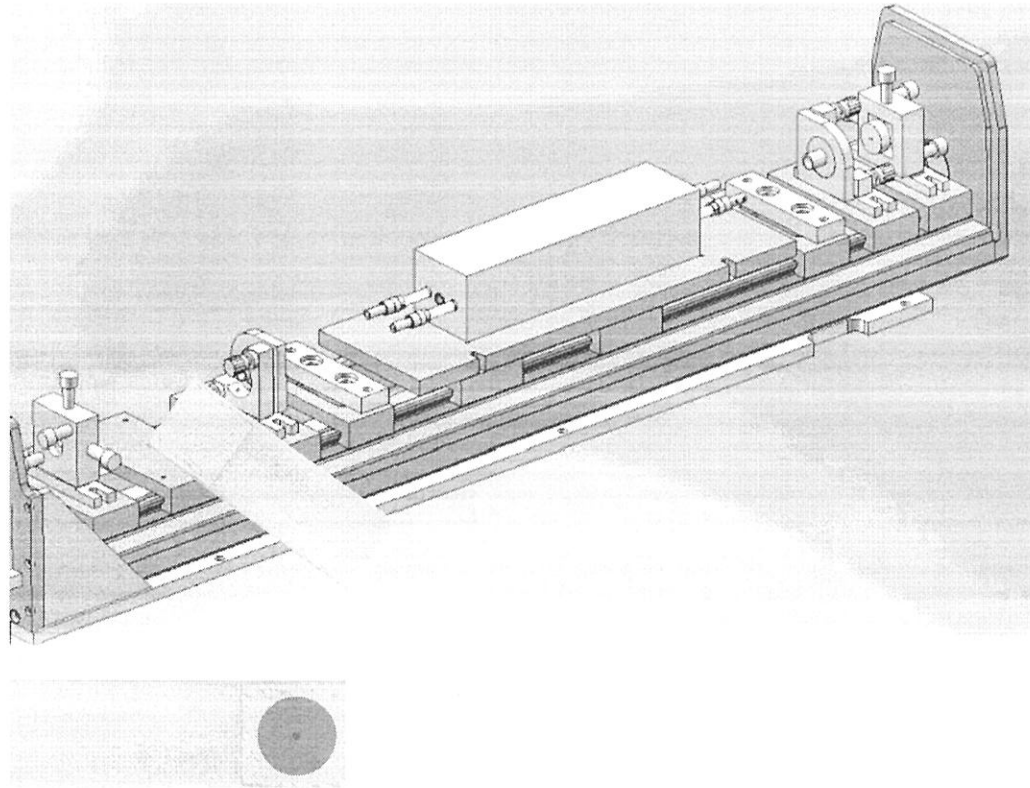
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第五步，将激光调到与红光同心

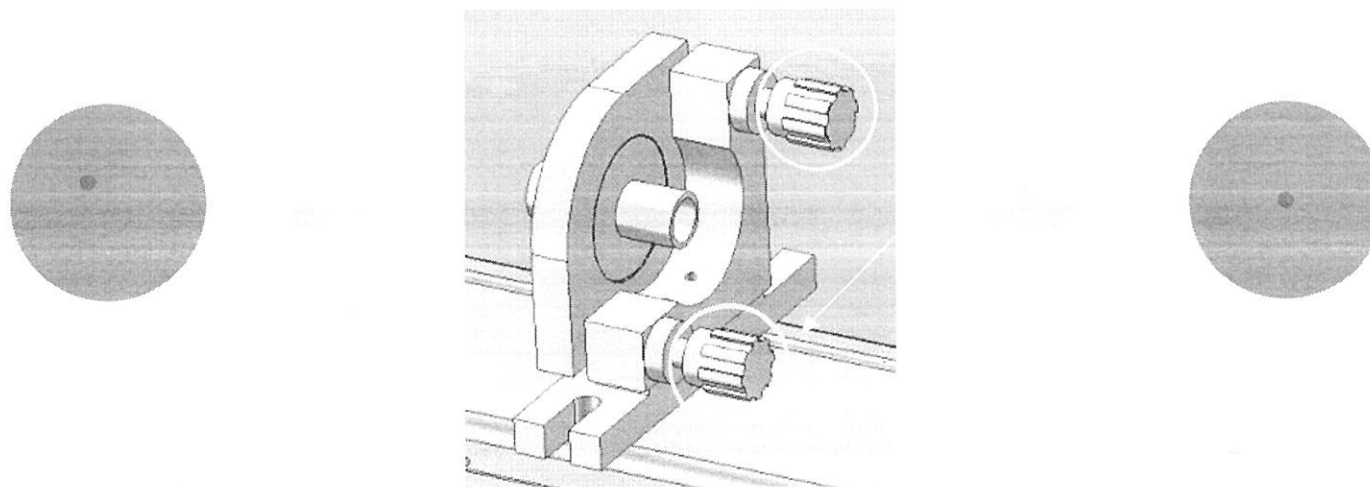
如果激光和红光不同心，需要调整高反镜片将激光中心往红光中心调整，与此同时，需调整输出镜使激光能量最佳。

Fifth step: adjust the center of the laser beam to overlap the red light dot

If the center of the laser beam does not overlap the red light dot, please adjust the high-reflect mirror to make sure the center of the laser beam to

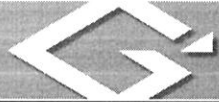
get close to the red dot. Make sure the output power of laser beam is the best.

adjustment knob



注意：此步骤调整完后，需检查红光处是否有反射的红色点。如果有需调整输出镜将红点反射回红光指示仪，然后再调整高反镜，使激光能量达到最佳。

Notice: after this step, please check whether there is a reflected red spot around the red light dot. First adjust the output mirror to let the red dot reflect back to red light indicator, then adjust high-reflect mirror to make sure the output power of laser beam is the best



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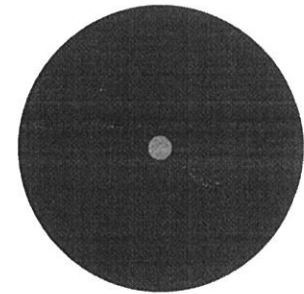
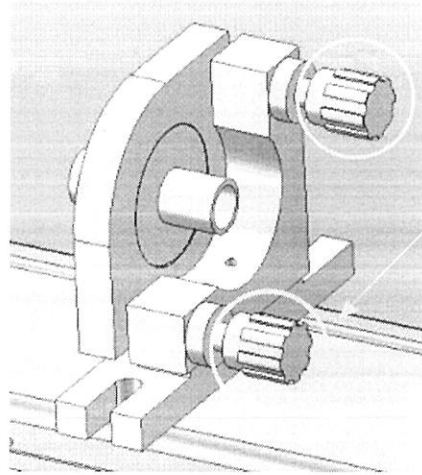
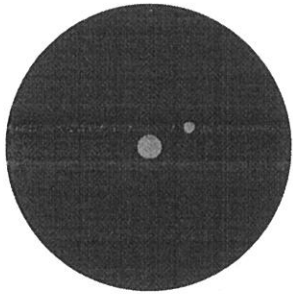
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adjustment knob



此时水平光路调整完毕。

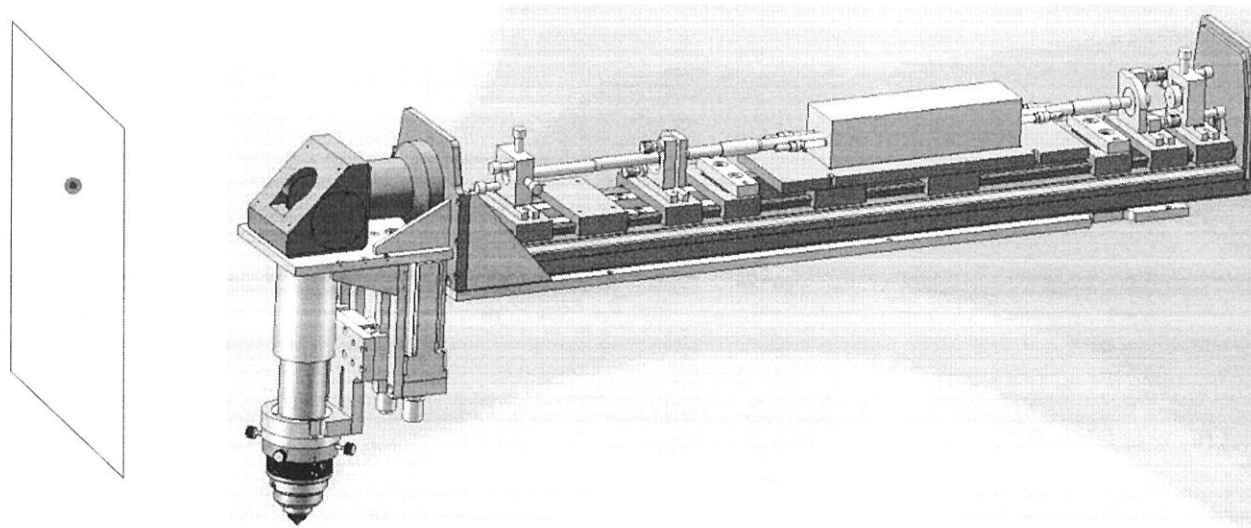
Now, alignment of horizontal optical path is finished.

第六步，扩束镜的安装调整

首先拆掉 45° 反射镜座，然后在离激光头约 50cm 处放一块板子，让红光能够照射到上面。再用 MARK 笔在上面做个标记，最后将扩束镜安装上去。

Sixth step: install and adjust the expander lens

First take down the 45° reflect mirror base and put the a plank 50cm before the laser head to let the red light go on the plank. Use a marker to take a not and install the expander lens.



扩束镜调整:

安装好扩束镜后, 在 45° 镜处放好光靶。此时需调整扩束镜座,将红光调整到和 MARK 点一致的位置并且在光靶中心处。

Adjust the expander lens

After installing the expander lens, put the light target on the 45° reflect mirror. At the same time please adjust the expander lens base and make sure the red light and the mark point overlap and all at the center of the light target.



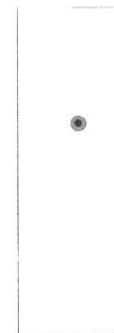
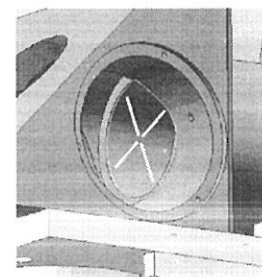
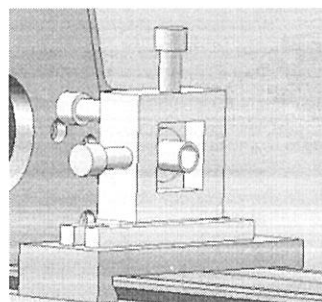
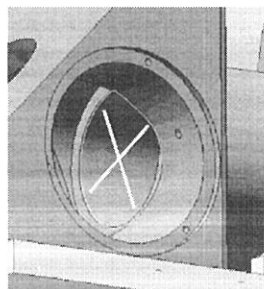
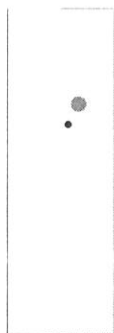
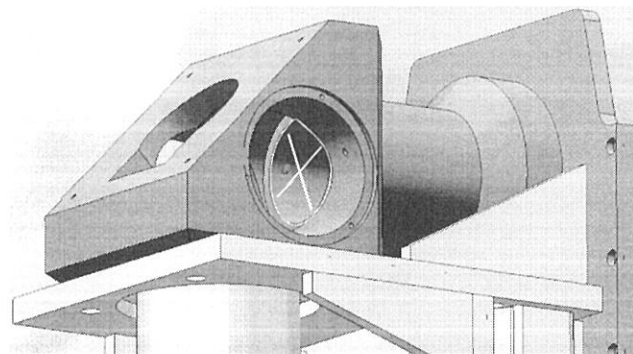
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第七步，调整垂直光路

首先将 45° 反射镜安装到机器上，然后取下激光头，将光靶放入机器里，检查垂直光路是否在中心。

Seventh step: adjust the vertical light path

First install the 45° reflect mirror on machine and then take down the laser head. Put the light target on the machine and check whether the vertical light path is at the center.



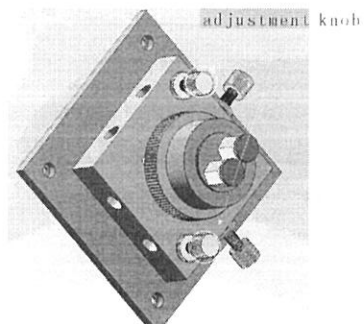
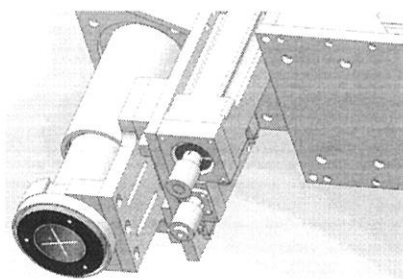
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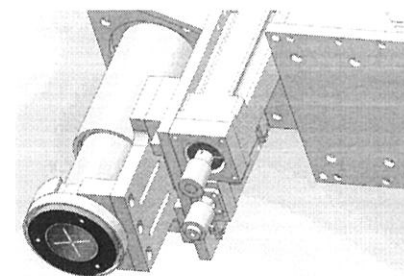
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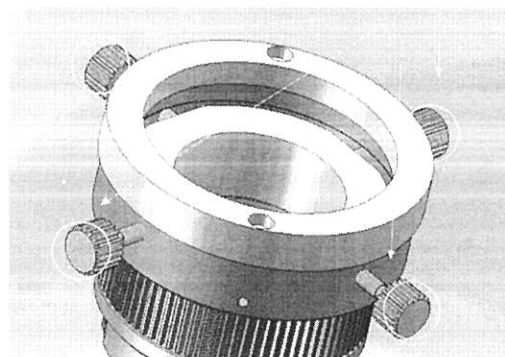
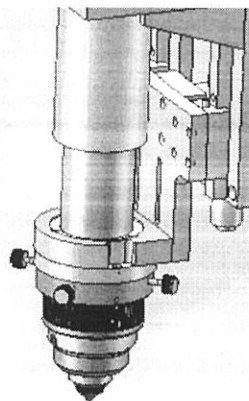


adjustment knob



第八步，安装切割头，将红光从切割嘴中心调出来

Eighth step: install the cutting head and adjust the red light to go out from the cutting head



adjustment knob

