

高精度光纤切割刀使用说明书

警告!

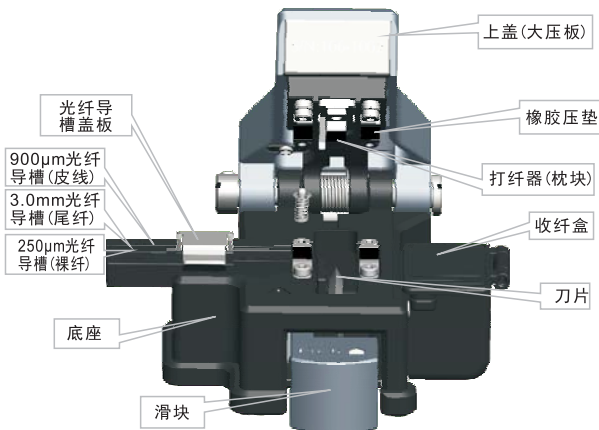
本产品是在充分考虑了安全性的基础上设计研制的,为做到安全使用本产品,请务必熟读本说明书的注意事项,并严格遵守,阅读后请保存。

- * 由于对机体进行分解和注油会造成故障的发生,所以绝对不可实施。
- * 光纤切割刀属于精密机械,如敲打和落地(受到强烈冲击),可能会损伤切割刀的特性,也可能造成人员的受伤,使用时请多加小心。
- * 光纤及光纤碎屑非常纤细,尖端锐利,扎入手指,进入眼部将造成伤害。所以操作时请多加小心,为了安全操作,请配戴防护眼镜。
- * 请将光纤碎屑处理在与普通垃圾区分的专设废弃场所。
- * 安装在机体上的刀刃非常尖锐,绝对不可用手触摸,以免受伤。
- * 请注意如果光纤压板盖合杆受到冲击也会是产生故障的原因。开合杆受损的话,可能会降低切割刀的性能。
- * 如机械发生故障异常时,请停止使用。不要拆卸或改装,并联系经销商。

基本规格

适应光纤	石英光纤(切带状光纤时需用专用夹具)
适应光纤种类	φ0.25/φ0.9/φ3.0mm
适用裸纤芯径	125μm
切割光纤长度	9~24mm
外形尺寸	85(W)×89(D)×45(H)mm
产品重量	约213g
切割角度	≤0.6°
刀片寿命	约48000次

构造



操作方法



日常使用及维护

- 切割刀使用时必须保证橡胶压垫以及光纤导槽清洁,无灰尘杂物。
- 要经常清理滑块前端的废弃光纤(拆下侧板可用毛刷清理干净),否则可能会导制机械故障。

更换刀位:

正常使用中,如发现切割质量下降(通常在1000~1500芯),是因为刀片损耗造成的,可按以下方法调整刀位:

- * 用1.5mm六角螺丝刀松开收纤盒螺钉D,取下收纤盒。
- * 用1.5mm六角螺丝刀松开压刀螺钉C。
- * 转动刀片至下一刻度编号对应位置(一般刀片分为12或24刀位);用棉棒按住刀刃转动刀面。
- * 锁紧压刀螺钉C,完成调整。
- * 试着切断1、2次光纤,利用熔接机的画面来确认光纤的切割端面。如光纤切割端面不良,请调节刀刃的高度。(请参照『刀刃高度的调节方法』)

注意:

- 更换刀刀位置(旋转刀刃)时,请勿用手直接旋转刀刃。
- 请勿使用金属工具(镊子等)转动刀刃。如果用金属工具,会损伤刀刃。
- 注意勿过分拧紧压刀螺钉C,以免螺钉破损。

刀刃高度的调节方法:

- * 拧松固定螺钉A。
- * 调整刀片高度调节螺钉B至合适高度。
- * 拧紧固定螺钉A。

注意:

- 刀刃高度要调高时,松开固定螺钉A,将调节螺钉B按顺时针方向旋转。
- 刀刃高度要调低时,松开固定螺钉A,将调节螺钉B按逆时针方向旋转。

- 请用棉棒将刀片下方按压,边旋转刀片高度调节螺钉B,最后锁紧固定螺钉A。
- 请注意刀刃高度不要调节过高。否则会撞击枕块,导致刀片受损,影响切割品质。

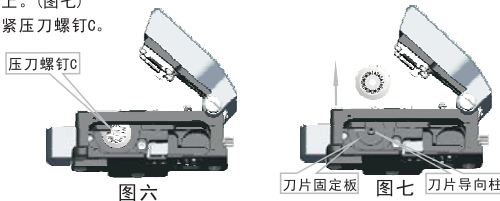
刀片更换:

- * 当刀片循环使用后,无法通过转刀位和调刀片高低来提高切割质量时,需更换刀片。
- * 拆下4个侧板螺钉E,取下侧板(图六)。
- * 拆下压刀螺钉C,用镊子等取出刀片,注意不能让刀刃碰到其它零件部位(图七)。

注意:

- 刀片是经过精密研磨而成,如刀刃碰撞到金属等会受损欠缺,从而不能发挥正常的切割性能,使用时请多加小心。
- 使用金属制的镊子时,注意不要损伤到刃口。
- 拿取刀片时使用手套,不要用手直接触摸。
- 更换下来的旧刀片请与普通垃圾区分,正确废弃。

- * 安装新刀片时,要使刻度号为“1”的面向上,将刀片放在刀片固定板的固定面上,轻轻推滑进槽。此时请将刀片的中孔套进固定板的导向柱上。(图七)
- * 拧紧压刀螺钉C。



故障排除

故障现象	故障原因及解决方法
光纤切不断	1、清洗橡胶压垫。 2、提升刀片高度。 3、清洗刀片刃口。
光纤边缘有圆角	1、提升刀片高度。 2、如橡胶压垫磨损或老化,更换橡胶压垫。

- * 按上述方法调整过的切割刀仍有切割质量问题,且刀片是新刀片时,请与售后联系。
- * 如有滑块运动不顺,橡胶压垫闭合不紧密,打纤器动作阻塞等机械问题时,请与售后联系。

产品清单

名称	数量
光纤切割刀	1把
1.5mm六角扳手	1个
包装盒	1个
说明书	1份

Optical fiber cleaver user manual

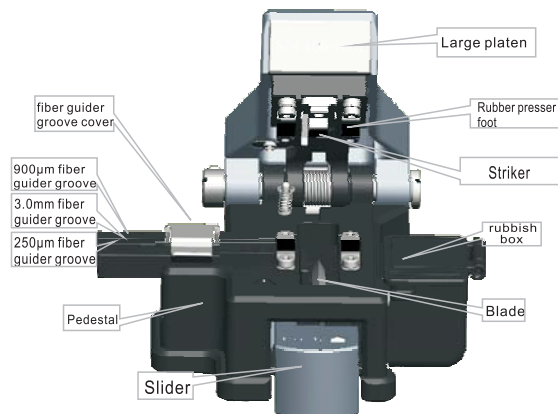
Warning!

- ※ Please read this manual before operation.
- ※ Please collect fiber scarp with the specified container to prevent them into skin and eyes.
- ※ Do not touch the blade.
- ※ Do not disassemble or lubricate, please contact with the service department of maintenance.
- ※ Please gently to use, any bump that may affect the cutting quality.
- ※ Store it in a dry, clean place with the protective pouch.

Specification

Appling Fiber	Silica Optical Fiber (Special fixture is required when cutting ribbon fiber)
Fiber Type	φ0.25/φ0.9/φ3.0mm
Coating Diameter	125μm
Cleaved Length	9-24mm
Dimensions	85(W)×89(D)×45(H)mm
Weight	≈213g
Cleaved Angle	≤0.6°
Blade life	48,000 times

Structure



Operation



Figure1



Figure2

- ※ Press the large platen tightly, then turn the cleaver lock to the "on" side (As shown in figure 2), then lift the platen.
- ※ Open the fiber guider groove cover, then push the slider forward to the top and lock it. (As shown in figure 3).
- ※ Set the fiber into the corresponding fiber guider groove, then align the boundary line of the coating with the measurement scale of the fiber cut length (such as: When the cutting length is 16mm, align the coating boundary line with the scale at 16mm). At this time, please confirm whether the bare fiber is straight.
- ※ Close the cover and clamp the fiber.
- ※ Press the large platen, triggered the switch, then the fiber is automatically cut off.
- ※ Release the large platen, then open the cover of the fiber guider groove while holding the fiber with your finger, and then take the fiber out.
- ※ When storing the fiber cleaver, first press the large platen, turn the cleaver lock to the OFF position (As shown in figure 1), and then put the fiber cleaver in the box.

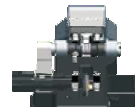


Figure3



Figure4

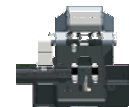


Figure5

Daily Using and Maintenance

- When using the cleaver, you must ensure that the rubber pressure foot and the fiber guider groove are clean and free of dust and impurities.
- Always clean the fiber at the front end of the slider (Remove the side panel and clean it with a brush), otherwise it may failure of the cleaver.

Change the angle of blade:

If cleaving quality descends (usually cleave 1000 to 1500 times), the blade may be worn. Please follow the step to adjust the blade angle:

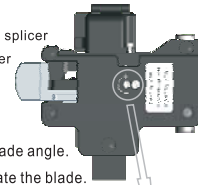
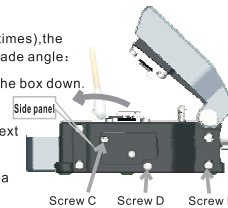
- ※ Loosen the Screw D with a hex screwdriver, then take the box down.
- ※ Loosen the Screw C with a hex screwdriver.
- ※ Rotate the blade to the position corresponding to the next scale number (the blade always be divided into 12 or 24 parts); Use a cotton swab to hold the blade while rotating it.
- ※ Tighten the screw C to complete the adjustment.
- ※ Try to cut off the fiber for once or twice, then use the fusion splicer screen to confirm the cut end face of the fiber. (Please refer to "Adjusting the height of blade")

Notice:

Please do not use your fingers directly when rotating the blade angle. To avoid damaging the blade, do not use metal tools to rotate the blade.

Adjusting the height of blade:

- ※ Loosen the screw A.
- ※ Adjust the blade height by adjust the screw B to a suitable height.
- ※ Tighten the screw A.



Notice:

- To adjust the height of the blade, loosen screw A and turn screw B clockwise.
- When the blade height is to be lowered, loosen screw A and turn screw B counter clockwise.
- When adjusting the height of the blade, please turn the screw B while pressing down the blade with a cotton swab, and tighten the screw A at last.
- Please be careful not to adjust the height of the blade too high, otherwise it will hit the Striker, cause damage to the blade and affect the cutting quality.

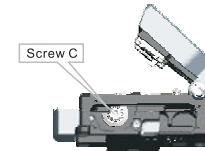


Figure6



Figure7

Replace the blade:

- ※ When the blade circulation is used, and you cannot improve the cleaving quality by changing the angle of blade and adjusting the height of stud, the blade needs to be replaced.
- ※ Loosen all screws E, then remove the side panel (as shown in figure 6).
- ※ Loosen screw C, use tweezers and other tools to remove the blade, donot let the blade hits anything.

Notice:

- The blade is precisely ground. If the blade touches the metal, it will be damaged and lose performance. Please be careful when using it.
- When using metal tweezers, be careful not to damage the cutting edge.
- Use gloves before picking up the blade, don't touch it directly with your hands.
- Please distinguish the replaced old blade from ordinary garbage and discard it correctly.

- ※ When installing a new blade, make the part with the scale number 1 face up, then push gently to slide into the groove. At this time, please insert the middle hole of the blade into the guide post of the fixed plate (as shown in figure 7).
- ※ Tighten the screw C to secure the blade.

Conventional issues and solution

The phenomenon of issues	Conventional issues and solutions
Fiber cannot be cut though	1. Clean rubber presser foot 2. Elevate the height of blade 3. Clean the blade edge
The end face has fillet	1. Elevate the height of blade 2. If the rubber foot abrasive wear or aging please replace them.

- ※ If the fiber cleaver adjusted according to the above method still has cutting quality problems even with a new blade, please contact the after-sales department.
- ※ If there are machine problems such as the slider not running smoothly, the rubber presser foot is not closed tightly, or the striker is blocked, please contact the after-sales service.

Product List

Name	Quantity
Fiber cleaver	1
1.5mm hexagon wrench	1
Packing box	1
Manual	1