

## 薄层层析硅胶板切割器使用说明

产品名称：薄层层析硅胶板切割器

英文名： TLC Plate Cutter

产品编号：CS-E0019

材质： 硬质合金刀头、铝板、PVC塑料板

用途： 用于对薄层层析硅胶板进行精确的、规整的切割，可有效的避免浪费

### I 切割操作：以切割 20\*20 cm 薄层层析硅胶板为例

- 1、取一块 20\*20 cm 薄层层析硅胶板，放置在切割器塑料板上，玻璃面朝上，与带刻度的塑料板紧密对齐，不留间隙；
- 2、Figure1-1：放置刀头的位置，Figure1-2：底部有一处小白点，该点对应刀头所在线所处位置，将刀头移至切割器的起始位置（刀头顶部不要往下压）；
- 3、根据自己需要的尺寸，将刻度对准白点，按下刀头顶部，轻轻地刀头往下推，直至底部，在划刻玻璃面的同时，需要用另一只手按住玻璃板面上，防止薄层层析硅胶板发生位移；
- 4、纵向切割后，取出整块垫板，旋转 90 度，将横向刻度尺对向 Figure1-2 位置，操作重复步骤 3；
- 5、取出划刻好的薄层层析硅胶板，将其轻轻掰开，并整齐摆放在干净的盒子中，备用；
- 6、其他规格的薄层层析硅胶板切割，操作可参照，步骤 1-5。



- Figure 1 -

### I 更换硬质合金刀头操作

当感觉切割效率明显下降时，可通过更换刀头，实现更流畅的切割体验，具体操作以及示意图如下：



- Figure 2 -



- Figure 3 -

(30,000+)

有机合成砌块

(5000+)

特色医药中间体

(5000+)

合成试剂

- 1、拧开 Figure1 标识处的两个固定螺丝，取出刀头滑块；
  - 2、刀头滑块有三颗螺丝，分别拧开，取出旧刀头，更换新刀头，拧上螺丝；(Figure2)
  - 3、装好新刀头后，将连接滑块处的两个小弹簧，分别对准上下孔位后，拧紧滑块上的对面两个螺丝，更换完毕；(Figure3)
- 在使用的过程中，如果需要更换刀头，可以联系乐研购买或提供安装指导；

## | 注意事项

- 1、玻璃边缘比较锋利，为避免划伤手指，请戴棉质手套操作；
- 2、如果薄层层析硅胶板厚度超过 2 mm，可用干净的纸代替塑料垫板；
- 3、为了延长刀头的使用寿命，划痕的最终位置最好离玻璃边缘 1-2 mm，这个可以通过调节螺栓的位置实现 (Figure1-3)。

# The Instructions of TLC Plate Cutter

Name: TLC Plate Cutter

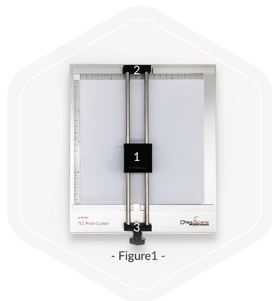
Cat. No.: CS-E0019

Material: Carbide scribe, Aluminum board, PVC plastic board

Application: Scoring and cutting glass TLC plate is a routine in many chemical laboratories, either to economize on plate usage or cut the plate precisely.

## I The Cutting Operation (Size 20\*20 cm as an example)

1. Place a TLC plate on the plate holder with the glass surface up, the plate must be placed firmly at the top edge of the plate holder and cutter body (leave no gap).
2. Figure1-1: carbide scribe mounted in movable plastic head; Figure1-2: There is a small white marker at the bottom, which corresponds to the position of the carbide scribe. Move the cutter head to start position (top of the plate cutter) without pressing down.
3. Align the scale with the white marker according to the required size. Push the cutter head down lightly until it stops at the lowest position and move it slowly along the plate. While scoring the glass surface, place one hand firmly on the plate to prevent it from moving.
4. After longitudinal cutting, take out the entire plastic plate, rotate 90 degrees, the horizontal scale is facing the position of Figure 1-2, Repeat step 3.
5. Remove the scored glass plate from the plate holder and snap it by hand.
6. Scoring and cutting glass TLC plate of other specifications, Repeat step1-5;



- Figure1 -

## I Replacement of the carbide scribe

It is necessary to replace the carbide scribe, once there is a noticeable deterioration in cutting efficiency.



- Figure2 -



- Figure3 -

1. Loosen two screws (Figure 1) on the slider and remove the cutter head.
2. Remove three screws of the cutter head, then replace the scribe (Figure 2);
3. When a new cutter head is reassembled, check the small spring is positioned correctly between the cutter head and the slider, then tighten both screws on the slider (Figure 3).

If you need to replace the cutter head during use, you can contact ChemScene to purchase and we will also provide installation instructions.

## I Note

1. Glass may have sharp edges! Please handle with care.
2. If the total thickness of coating and glass exceeds 2 mm, place the plate on clean paper instead of the plate holder
3. To prolong the life time of the scribe, the end position of scoring must be set 1-2 mm shorter than the glass edge by adjusting screw (Figure1-3).