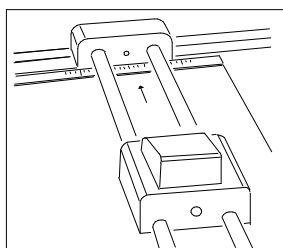


# TLC PLATE Cutter



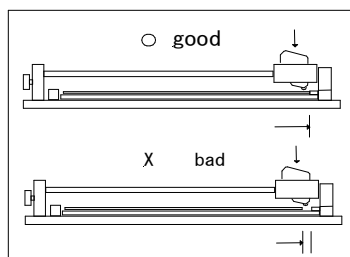
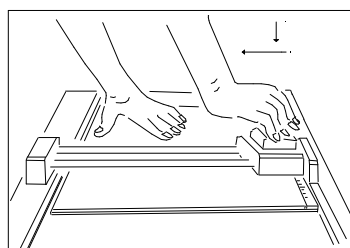
Warning! Glass may have sharp edges!

Scoring and cutting of glass TLC plate is a routine in many chromatography laboratories, either to economize on plate usage, or to cut the plate following separation for further quantitation. The TLC plate cutter consists of a high quality carbide scribe mounted into a movable plastic head. It is designed to cut glass-backed TLC plates 20x20cm, 10x20cm and 10x10cm.

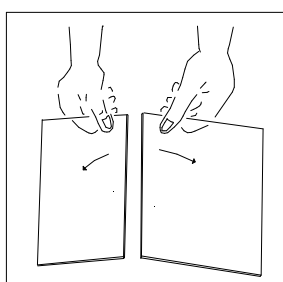


## SCORING A PLATE : Size 20x20cm

1. Place a TLC plate on the plate holder with the glass surface up and slide them into the cutter body. Align a red marker with the calibrated edge of the plate holder to the required scoring position.



2. Check the position of the glass plate. The plate must be placed firmly at the top edge of the plate holder and cutter body. Exact alignment of the plate is essential - leave no gap. Move the cutter head to the start position (top of the plate cutter) without pressing down. 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.



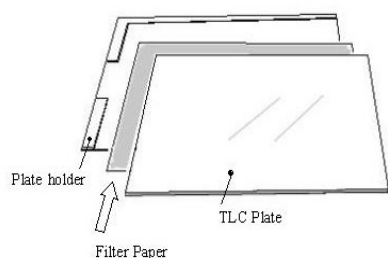
3. Remove the scored glass plate from the plate holder and snap it in two by hand.

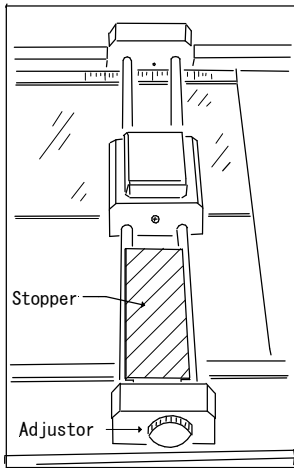
## IMPORTANT

TLC Plate Cutter is designed to accomplish optimal scoring on the glass surface of TLC plates with a layer thickness of 0.25mm and the support glass approx. 1.25- 1.75mm.

If the scoring does not clearly appear, in case of thin plate like TLC Plate Cellulose, place 1 or 2 sheets of filter-paper with a size of the TLC-plate (20x20cm) between TLC glass plate and the plate holder .

If a total thickness of layer and support glass exceeds 2mm, place the plate on clean paper instead of the plate holder.





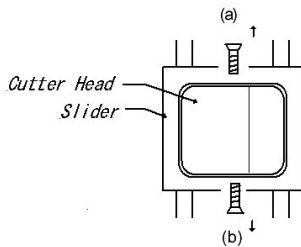
**SCORING PLATES: Size 10x20cm or 10x10cm**

Use the standard template 20x20cm size.

Insert the special reduction adapter (stopper) to restrict the travel of the cutter head. Proceed as 1-3 above.

**ADJUSTMENT**

Care must be taken that the scriber does not run over the glass edge. To prolong the life time of the scriber, the end position of scoring must be set 1-2 mm shorter than the glass edge by adjusting screw.



**REPLACEMENT OF THE CARBIDE SCRIBER**

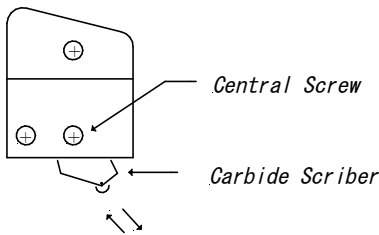
It is necessary to replace the carbide scriber, once there is a noticeable deterioration in cutting efficiency.

1. Loosen two screws on the slider and remove the cutter head.

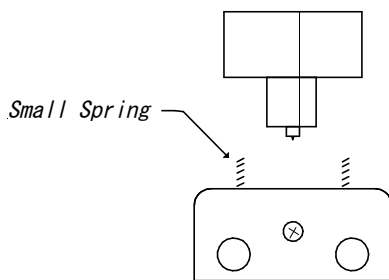
2. Remove Only the central screw of the cutter head.

Then replace the scriber .

3. Press the scriber with your thumb, and make sure that the scriber slides properly in the cutter head.



4. 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.



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**Warning!** Glass may have sharp edges!