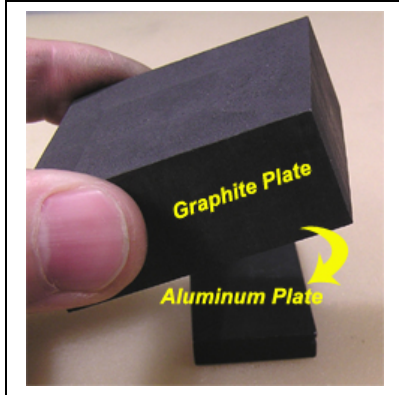


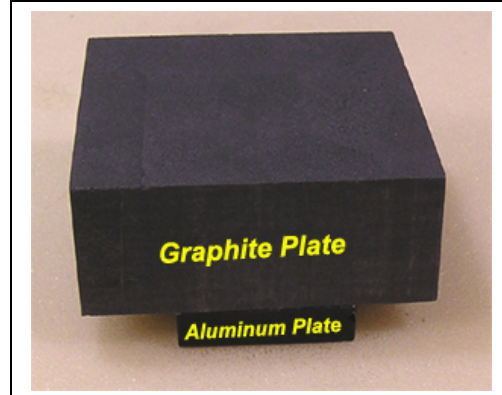
How to use the cross mount vise:

Please follow the instruction step by step as below:

1. Gluing sample



(a)



(b)

Fig. 1 gluing graphite plate on 1" Aluminum plate by epoxy (a) and (b)

- Glue graphite plate to 1" Aluminum plate by epoxy (Fig.1)



Fig.2 gluing a piece of sample by melting wax on the heating plate

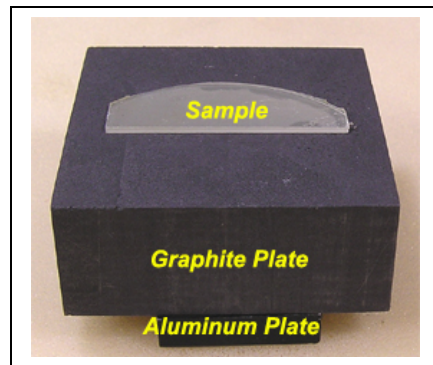
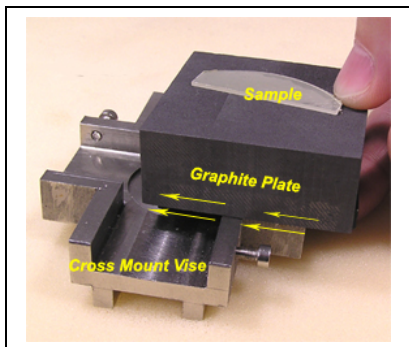
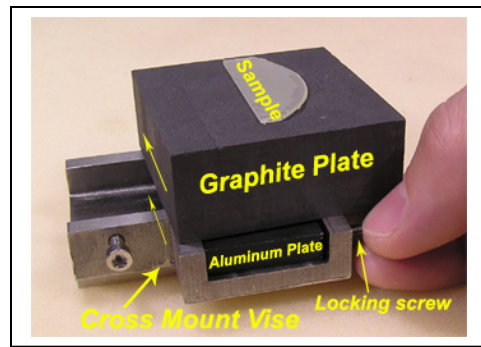


Fig. 3 removing the whole part from the plate

- Glue the sample to graphite surface by low melting point wax on the heating plate(Fig. 2), then remove them from the heating plate and let whole part cold down (Fig.3)



(a)



(b)

Fig 4 slide the aluminum plate into the cross vise (a) and tight locking screws (b)

- Put the 1" Aluminum plate with sample into one of groove on the cross vise (Fig. 4a), then tighten 2 screws on the vise (Fig. 4b)

2. Mount the cross vise on MTI's saws

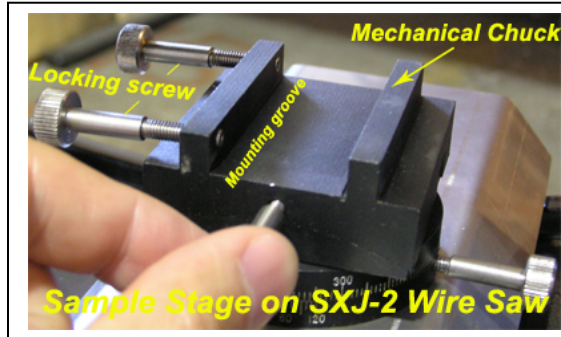


Fig. 5

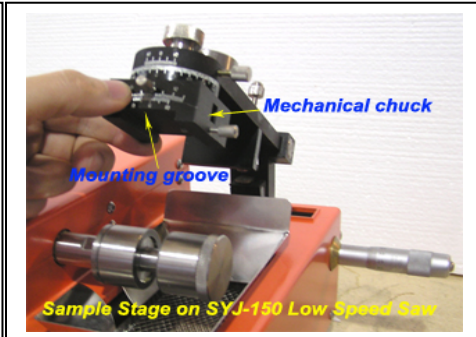


Fig. 6

- Put the cross vise to mechanical chuck on the SXJ-2 diamond wire saw and tighten the screw (Fig. 5)



Fig. 7

- Put the cross vise to mechanical chuck on the SYJ-150 low speed diamond saw and tighten the screw (Fig. 6)
- Put the cross vise to mechanical chuck on the EC400 CNC dicing saw and tighten the screw (Fig. 7)
- Make sample alignment with cutting blade
- Cutting the sample in desired distance by several runs
- After cutting on one direction don't need to take off sample but turn the cross vise at 90° and then slide it into the groove in the mechanical chuck and tighten again
- Then you can get perfect slice with perfect 90° angle.