

# Carbon Rod Sharpener

# AGT592

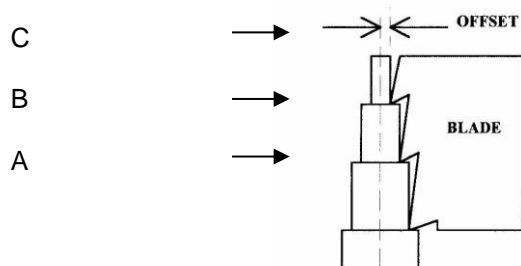
### 1. Setting up

The blade in the sharpener has not been pre-set. It will require adjustment before use.

To obtain maximum life from the blade, use soft grade carbon rods.

### 2. General use

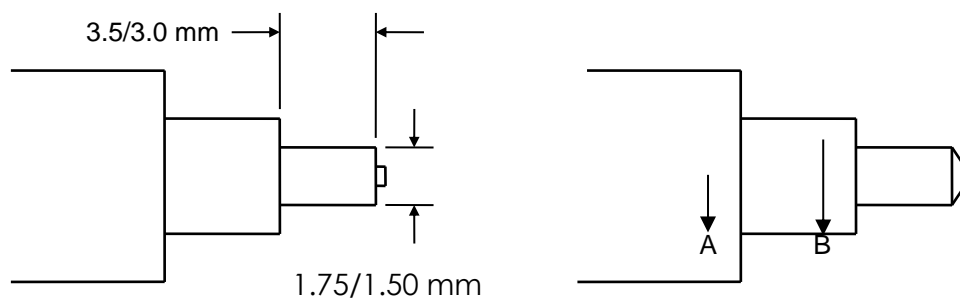
The sharpener can be used to produce rods with up to 3 shoulders. (Fig.1). The spigot C is used in conjunction with Pt wire for Pt/C evaporations. For other applications, a two shouldered rod can be used for conductive carbon coatings or carbon support films. The optimum diameter of the spigots may vary for different coating units and is dependent on the amount of current available from the power supply and the resistivity of the carbon rods being used.



### 3. Use with Agar Carbon Coaters

The Agar carbon rod source operates with a one shoulder rod in the fixed position and a two shoulder rod in the sliding position. The offset of the blade should be adjusted so that the diameter of spigot B (Fig.2) is between 1.5 – 1.75mm. Initial striking of the carbon arc will be improved if a pointed chamfer is made on the end of the spigot using abrasive paper.

The static rod only requires a single shoulder which should be made using the same cutter settings. Do not advance the rod into the cutter once the first shoulder has been made.



### Please note:

The size of the spigot is correct when using Agar carbon rods type E418. Changes to the spigot diameter B may be necessary if using carbon rods of a different type.