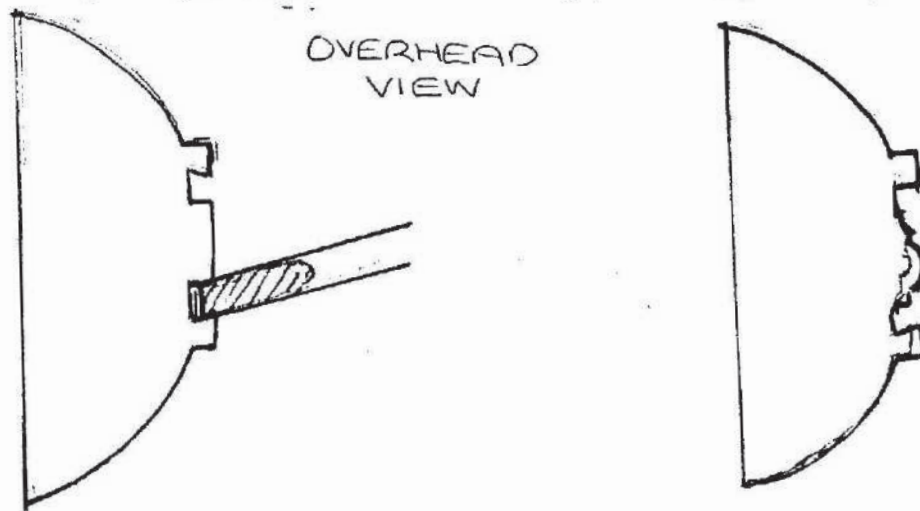


CROWN HAND TOOLS BOX SCRAPER
AVAILABLE IN 1/4"(6mm) AND 3/8" (10mm).

Whilst the tool has been developed to produce flat bottoms and 90° angles to the bases of cylindrical boxes and lids, it has also proved to be the perfect tool for producing the recesses required for expanding chucks to hold bowls, platters, etc. Incidentally, I like to use the centre of these recesses to form a feature, it looks better that way (see drawings 1 and 2).

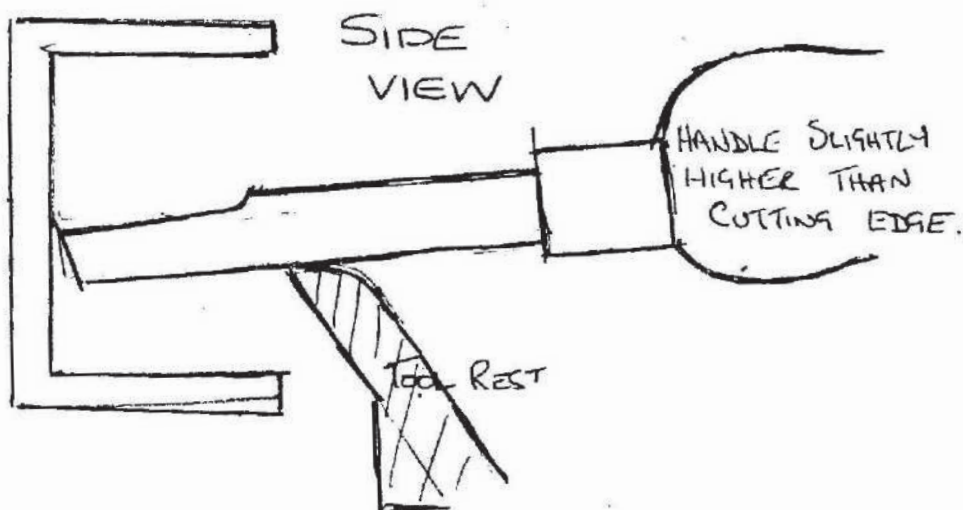


The skew angle at the tip of the tool is ideal to form the undercut or dovetail recess.

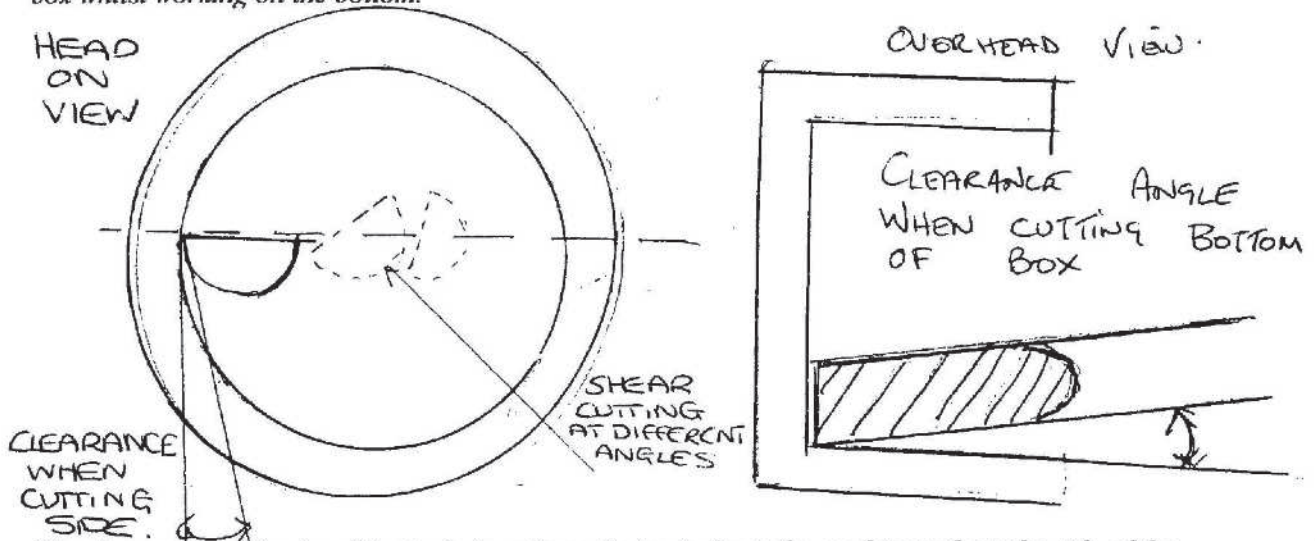
When making the boxes I generally remove the bulk of the material from the centre of the box using the side of a spindle gouge, this job could also be undertaken using a sawtooth bit. The box scraper is intended for refining the interior of the box and not the removal of bulk waste.

The methods I employ while using these tools are outlined below. These methods work for me but I'm sure do not encompass the limits of this tools capabilities. I have tried heavier versions of the tool but have come to the conclusion that the 1/4" and 3/8" versions provide the most efficient and useful sizes. The light shearing cuts produce a fine gossamer like shaving which leaves a finish that requires little or no sanding. This is especially so for the dense close grains of many of the exotics such as cocobolo and ebony. The tools are equally successful in dealing with our homegrown hardwoods.

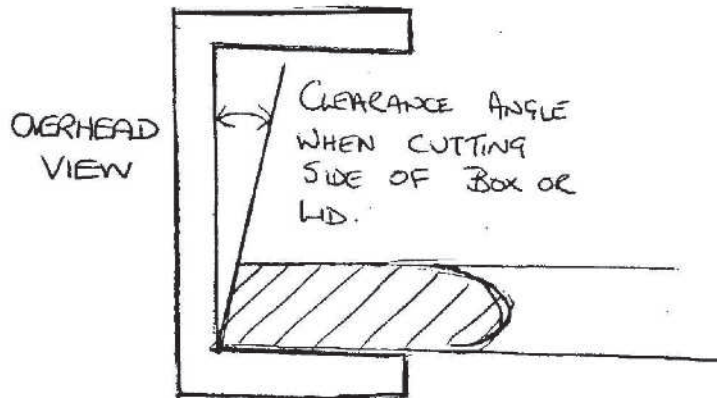
Whilst working on the flat bottom of a box or the underside of the lid the tool likes to cut on or slightly below the centre line, as with all scrapers the handle should be raised slightly higher than the cutting edge thus presenting the cutting edge in the trailing mode.



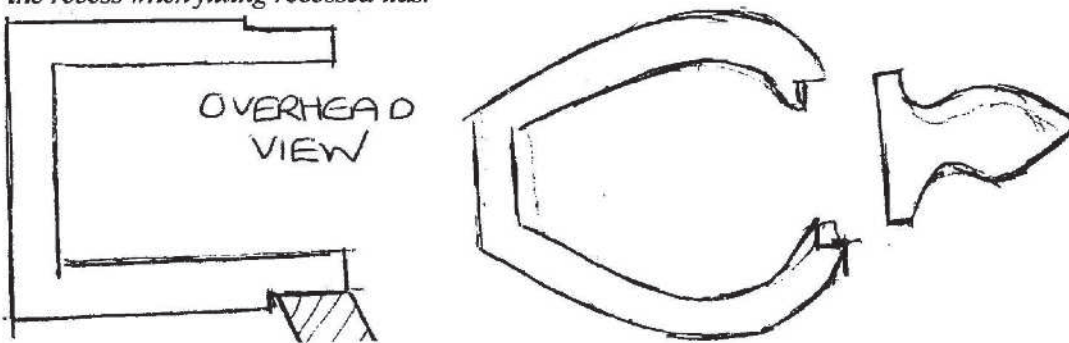
The tool does not require any brute force to use and in fact benefits from a light delicate touch. The tool is produced from round section bar, this allows the cutting edge to be presented at any angle thus producing the fine shearing cut whilst maintaining maximum support from the tool rest. The skew angle at the tip of the tool ensures that the side of the tool does not contact the side of the box whilst working on the bottom.



The skew angle at the tip of the tool also allows the tool edge to be used to work on the side of the box without catching the bottom. The round section also provides the clearance necessary to produce a parallel cut from the top of the box to the bottom. Essential for a good fit between the lid and the base.



The slight skew at the cutting edge is also useful when forming the spigot on which the lid fits, it produces a clean 90° angle where the lid makes contact with the base. I also use the tool to form the recess when fitting recessed lids.



I hope this information will be of some use to you.

Albert Harrison.