

CROWN HAND TOOLS LTD

REVOLUTION INSTRUCTIONS

INTRODUCTION

The Revolution is a highly versatile multi-use Hollowing System designed to give maximum flexibility and usability to woodturners. The Revolution can be configured in many different ways allowing the woodturner the flexibility to configure the tool for almost any hollowing situation. The interchangeable handle comes fitted with 5/8" and 1/2" collets as standard giving the turner access to a massive range of upgrade parts from the Crown Tools range.

COMPONENTS EXPLAINED.

HANDLE - The high quality handle is both beautiful and comfortable and comes fitted with 5/8" and 1/2" collets.

SIDE HANDLE / COUNTERWEIGHT - The solid brass side handle is designed to aid the turner to counteract the rotational torque force produced when undercutting hollow forms. It also doubles up as a comfortable counterweight when attached to the back end of the handle.

ARTICULATED SHAFT - This is the main shaft of the tool where all cutters and extenders are mounted.

EGG CUTTER - A great general purpose cutter.

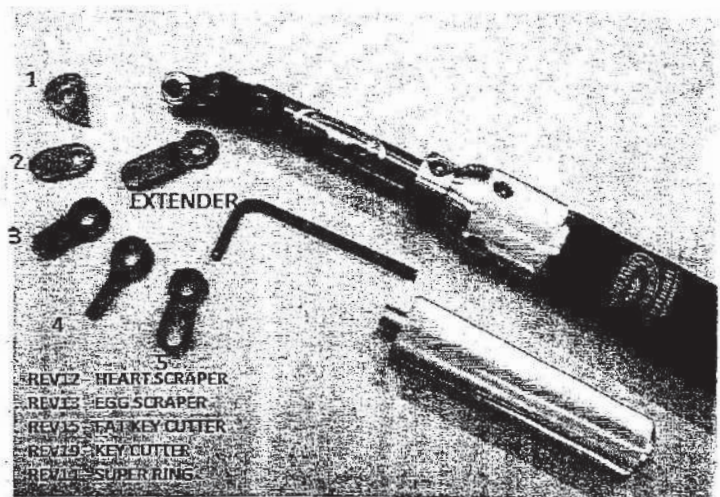
LONG KEY - For smaller detailed cuts or restricted access cuts.

FAT KEY - 6mm thick for heavier cuts and hard woods.

HEART SCRAPER - For internal and exterior finishing cuts.

SUPER RING - Used for general hollowing /shaping end grain and wood removal. A great finish can be produced from this cutter, often needing little or no scraping to achieve a smooth finish.

EXTENDER - Used for extending the articulation length and for mounting the cutters.



TOOL SETUP

The Revolution can be configured in many different ways depending on your requirement. Each cutting tip can be mounted directly to the articulated shaft or can be mounted to the supplied extender for under cutting.

SUPER RING SETUP

The super ring cuts using a small "micro bevel" on the top/leading edge of the ring. Adjustments can be made to the size of the micro bevel by rotating the "tapered brass adjuster" on the bottom side of the super ring.

By rotating and locking the tapered adjuster you can set the size and position of the "micro bevel" on the Ring.

(NOTE: Notice the "tapered adjuster" has a small mark machined into the highest point of the adjuster. This marks the area of the ring that you would like the heaviest cut to be produced. Generally only a very small "micro bevel" is required for wood removal.)

USING THE SUPER RING.

Rotate the ring anti clockwise to approximately 45 degrees from horizontal. Present to the wood so as to encourage a shear cut (this will minimise catching and add more control and finesse to your cut).

The optimum angle for presenting the super ring will differ slightly depending on the shape you are cutting. Generally an angle of between 45 degrees and 70 degrees is advisable. (NOTE: It is advisable to practice using the Super Ring on shallow bowls before attempting deep hollow forms)

TOOL SHARPENING.

SCRAPER CUTTERS

Scrapers are ground in the same way as traditional scrapers. Remove shaft from handle and place horizontally on the grindstone tool rest. Keeping the blade horizontal gently follow the shape of the cutting edge you wish to sharpen.

SUPER RING-

Using a diamond file/hone, carefully burnish the Super Ring's outside cutting face in an upwards motion.

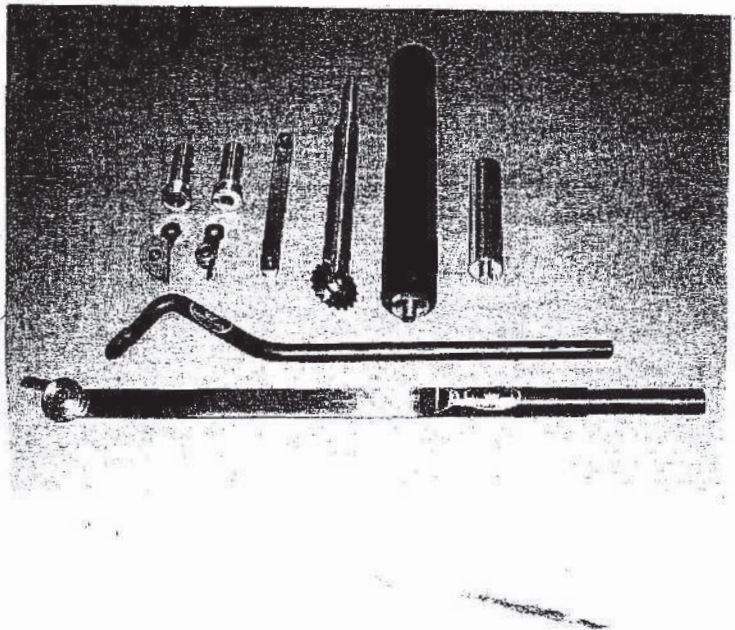
UPGRADE PARTS LIST.

REV04--	Shear scraper and extender
REV05 -	Extra collet 3/8"
REV06 -	Extra collet 1/2"
REV07 -	Swan neck and Egg cutter
REV08 -	14" long deep hollower
REV09 -	Brass sharpening stick
REVTEX -	Texturing tool
REV21 -	Foam extension bar
REV24 -	Extra side handle/counterweight
REV25 -	Brass clamed probe (inc extender- 2x blades)

PLUS MANY MORE IN DEVELOPMENT.

CRYOGENIC BOWL & SPINDLE GOUGES

REV240KW	-	1/4" bowl gouge
REV241KW	-	3/8" bowl gouge
REV242KW	-	1/2" bowl gouge
REV242SKW	-	3/8" short bowl gouge
REV236SKW	-	3/8" spindle gouge
REV237SKW	-	1/2" spindle gouge



CROWN HAND TOOLS
332-334 Coleford Road
Darnall, Sheffield, S9 5PH, ENGLAND
TEL: 0114 2612300. EMAIL: info@crowhandtools.ltd.uk