

ATS Diamond Tools

Under Mounted Sink Cut Out Tool Kit

This kit is designed specifically for producing polished sink cut outs for the fitting of an under mounted sink on granite worktops.

We assume that if you're looking at this kit you already have or are thinking of buying the basic starter kit.

The kit is made up of the following tools:-

50mm x M14 Holesaw:-

This is a vacuum brazed diamond holesaw, it doesn't come with a centre arbour so you need a guide to start it off in the right place. Something as simple as a 50mm hole drilled into a piece of MDF then clamped to the granite is enough, no need to buy special guides.

Use this core the four corners of your sink cut out.

The holesaw is designed to fit straight onto an angle grinder and operate at 10,000 to 12,000 rpm. It's the speed and the diamond that do the cutting, so don't feel the need to lean on the holesaw or apply excess pressure, this will just shorten its lifespan.

An M14 to Hex adapter is also supplied in the basic fitting kit to convert the holesaw to be fitted into a drill chuck. We'd advise using a mains powered high speed drill with the hammer action switched off. This will work in a battery drill on the highest speed but will take a while to drill the hole, so an angle grinder/corded power drill is always the first choice if available.

50mm Zero Tolerance Drum M14:-

This a vacuum brazed diamond coated drum. It grinds and squares up the cut edge before you start the polishing process. It has an M14 thread and fits in the FLEX polisher discussed in the basic starter kit.

Once you've created the sink cut out, place a piece of ply or something similarly substantial under the entire sink cut out. Using this ply base, sit the 50mm drum on the surface and use it to grind or square up any areas of the cut out as required before moving onto polishing pads and drums.

Super Premium Dry Diamond Polishing Drums 50mm 7 piece set M14:-

This is what you use to polish the internal radius of the sink corners once you've drilled them out with the 50mm holesaw, they are used on a FLEX L1503VR polishing machine (or equivalent) at a target speed of around 3000 rpm.

The backer pad has a hook and loop fitting system (similar to Velcro) and an M14 thread, it simply screws directly onto the thread of the polishing machine to accept the loop backed diamond pads.

The diamond drums come in a seven piece set. They start at #50 grit and finish at #3000 grit. The lower the number the more coarse the pad, so you start with a #50 to remove saw marks and smooth out the granite after cutting. Then progress through the pads until you reach a good level polish.

As a rule of thumb the following is where each pad should get you:-

#50, #100 – initial smoothing of material, can also be used to cut the bevel on the top and bottom edge of the granite work piece

#200 – This should provide a honed finish, smooth flat, but dull

#400 – the first level of polishing – satin finish

#800 - #3000 – finer degrees of polish

To extend the life of these drums, just use them for the four internal corners and use the regular polishing pads to polish the straight sides of the internal sink cut out. The pads and drums are all manufactured in the same factory so each grit should provide an identical level of finish.

Help!

Not quite sure what you need or what you're doing?

Feel free to call us on 0203 130 1720, or email at info@atsdiamondtools.co.uk