

## Wall Chasing - Ins and Outs



Diamond Wall Chasing is the process of forming a neat channel in masonry or concrete for the purpose of electrical conduit installation or plumbing applications.

The Makita SG1250 Wall Chaser uses diamond cutting technology to produce a uniform parallel channel from 0 to 30mm deep and from 6 to 30mm wide. The first step in the actual process is to change the settings on the wall chaser to produce a cut of your choice. The depth is changed via a plunge setting adjustment on the machine.

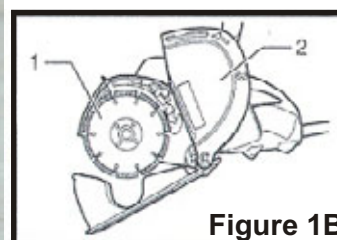
The width of the grooving in the workpiece can be adjusted by changing the number of space rings (See Table 1A and Figure 1B). The next step is to mark the area you want to cut with chalk. Then, before the cut is done, attach the machine to the dust collector (the Makita M440 in this instance) and make certain that the M440 is plugged in and switched on. This is to be sure that the machine switches on automatically when the SG1250 is in operation. This method ensures that 96% of the dust is removed during the cut resulting in longer tool life, better quality of work and safe working conditions.

Groove width: 30 mm	Groove width: 27 mm	Groove width: 24 mm

**Table 1A**

The table to the left shows how to adjust the groove width:

- 1) Lock Nut
- 2) Diamond Wheel
- 3) Space Ring 6 (6mm thick)
- 4) Space Ring 3 (3mm thick)
- 5) Diamond Wheel



**Figure 1B**

1. Diamond wheel
2. Cover

Once you have determined the distance of the two blades according to Table 1A then comes time to install the diamond wheel. To do this, mount it carefully onto the spindle, making sure the direction of the arrow on the surface of the diamond wheel matches the direction of the arrow on the tool. Install space ring and lock nut.

Tighten the lock nut securely clockwise with the lock nut wrench while pushing down the shaft lock.

Return the cover and the base to the original position and tighten the bolt to secure them. The cut is ready to be made.

Plunge the machine fully into the wall. Hold the machine in its full cut position and slowly cut down towards the floor. Once you have reached the bottom of your cut, release the machine from its cut and switch it off. Wait for the machine to come to a complete stop before resting the machine safely on the floor. Once the cut has been done, then it is time for the operator to channel out the chase with a light chipper such as the Makita HM0860C as pictured in the image above.

### BENEFITS:

- Consistent cutting depth ensures electrical regulations are met for conduit depth (30mm)
- Electrical installations more efficient due to the precision of the channel and depth
- Dust Extraction ensures work can be carried out in close proximity to others reducing health & safety risks.

