

# Countertop/Wall-Hung 500 Basin – VESSEL001

## Tap Hole Drilling Instructions

Drilling a 35mm hole in a ceramic basin from underneath requires care and the right tools to avoid cracking the ceramic. Here's a step-by-step guide:

### Tools Needed:

- 35mm diamond-coated hole saw drill bit (specifically for ceramic)
- Drill with variable speed control (preferably corded for consistent power)
- Masking tape or duct tape
- Marker or pencil
- Spray bottle with water or sponge (for cooling)
- Safety glasses and gloves
- Towel or padding (to protect the surface of the basin)
- Wooden block (optional, for extra stability)
- Clamp or helper (optional, to secure the basin)

### Steps:

#### 1. Prepare the Basin:

- **Flip the basin:** Since you're drilling from underneath, flip it over carefully on a padded surface to prevent scratches or damage.
- **Mark the hole:** From underneath, measure and mark the center of where you want the 35mm hole to be. Use a marker or pencil to draw a guide.
- **Tape the area:** Apply masking or duct tape over the marked area where you'll drill. This helps prevent the drill from slipping and also reduces the chance of chipping.

#### 2. Secure the Basin:

- If possible, **clamp the basin** or have someone hold it securely. This will keep it stable while you drill.
- Place a **wooden block** or padding underneath the basin to absorb the pressure.

#### 3. Attach the Drill Bit:

- Use a **diamond-coated hole saw** with a 35mm diameter, which is ideal for ceramic.

- Attach the bit to a **drill with variable speed**. The variable speed will allow you to start slowly and increase speed as needed.

#### 4. Drill Slowly:

- **Start slow:** Begin drilling at a low speed to prevent the bit from skidding. Press lightly at first to create a small groove for the bit to grip.
- **Maintain water cooling:** Use a spray bottle to keep the area and the drill bit wet. Water acts as a coolant and helps avoid overheating, which could crack the ceramic. If a spray bottle isn't available, a damp sponge can be used instead.

#### 5. Apply Steady Pressure:

- Gradually increase the speed while applying **light and even pressure**. Avoid pressing too hard, as too much force can cause the ceramic to crack.
- Stop periodically to check the progress and apply more water as needed to keep the area cool.

#### 6. Finish the Hole:

- Once the hole saw breaks through the ceramic, **reduce the drill speed** to avoid damaging the edges of the hole.
- Clean up any debris and smooth the edges of the hole if necessary with sandpaper or a ceramic file.

#### Tips:

- Always wear **safety glasses and gloves** to protect yourself from dust and debris.
- Drilling from underneath can be tricky, so ensure you have good visibility and access to the area you're working on.
- **Do not rush** the drilling process. Slow and steady will minimize the risk of cracking or damaging the ceramic.

With patience and the right technique, you can successfully drill a 35mm hole in the ceramic basin without causing damage!