Mak Times SA
makita
INDUSTRIAL QUALITY POWER TOOLS
marketing@rutherford.co.za www.makita.co.za Edition 3 December 2005

Right Tool For The Job

8406 Diamond Core Hammer Drill

Make light work of even the biggest holes when matched with a top quality core drill.

- 850W
- 20mm Capacity in Masonry
- Variable Speed
- 13mm Gear Chuck
- Rotary / Rotary Percussion Action

No load speed 0-1500rpm. Max. capacity in wood 30mm, steel 13mm, masonry 20mm. Max. Dry Diamond Core 152mm. Blows per min 0-22,500bpm. Weight 3.5kg.

The increasing use of dry cutting Tungsten Tipped and Diamond Segmented Core Drills - both in the professional sector, and for general home owner DIY applications - is due to the speed, efficiency and accuracy these tools give in the production of service access holes for a variety of plumbing, ventilation and electrical installations.

The Makita 8406 Diamond Core Hammer Drill is suitable for clean cutting through a variety of building media, such as facing bricks - concrete blocks, breeze blocks, soft stone etc, however we do not recommend prolonged usage with very hard materials such as granite, site cast concrete or engineering bricks.

A performance comparison of Diamond over Tungsten Carbide can be generally made. Diamond Cores are faster cutting, with less pressure required to achieve similar cutting speeds, do not require any hammer action, and thus will cut smoother and dimensionally superior holes. Also, they last longer, and are therefore more cost effective in the long run

For professional use, the drill selection for dry core cutting should be a minimum of 850 watts, preferably with variable speed, and for safety and control, have a slip clutch.

As a general rule, the larger the core and the harder the material, the slower the target speed, and vice versa.

Drilling Tips

Safety first - Always wear protective goggles, strong protective gloves, respiratory aid, protective clothing, and sturdy boots

The assistance of a drilling partner, to aid dust and debris collection with a targeted vacuum nozzle will keep this drilling hazard to acceptable levels.

As with many drilling operations, it is best to let the tool do the work, and not to exert excessive force. Be aware that drilling performance is affected by the presence of moisture, either in the building media, or from ambient conditions, and that drilling and cutting in dry summer conditions will be a lot faster than in those affected by the damp.

Dry cutting requires an adequate airflow around the tool, as the cooling medium during cutting, so a cutting strategy of frequently exiting the hole, both to clear debris, and offer this positive airflow is essential. A cutting period of 15 - 20 sec should be followed by this exit action on full rpm for 7 - 10 sec, and repeat. Slotted Cores in operation create a natural vacuum, which will assist the drilling performance.