



Dry Diamond Core Drilling Guide

Rothenberger dry diamond cores offer the fastest and most cost effective solution for drilling through popular building materials and soft to medium hard natural stones, such as; general facing bricks, handmade bricks, general concrete blocks, dense concrete blocks, lightweight concrete blocks, concrete paving and patio slabs, York stone, limestone and abrasive sandstone.

½" BSP female thread accepts all makes of dry core accessories

Slotted barrel enhances dust removal and aids release of drilled material

Spiral barrel design increases dust removal and helps to prevent snagging

Diamond segment bond developed exclusively for UK building materials

High quality diamonds ensure fast drilling and long life





SAFETY & OPERATION GUIDELINES

DO...

- ... Pilot drill the wall first using a 13mm masonry bit
- ... Locate the 12mm A-taper guide rod down through the core and push fit it into the adaptor
- ... Wherever possible, use a dedicated diamond core machine
- ... Make sure the chuck is fully tightened
- ... Clear debris at regular intervals, this will help prevent the core snagging, which in turn reduces the likelihood of overheating and excessive machine wear
- ... Use the machine at speeds between 380-2500rpm. The harder the material and larger the diameter of core, use a slower rpm. Faster speeds will not always increase performance
- ... Rotate the core when entering and leaving a hole
- ... Keep the machine level at all times
- ... Reduce pressure if the core starts to vibrate
- ... Re-dress the diamond segments by drilling into a very soft material every so often, especially if the drilling speed is reducing.



DO NOT...

- ... Use hammer action when drilling with a dry diamond core
- ... Force the core, let it and the machine do the work
- ... Make long continuous drilling motions without clearing the debris
- ... Let excessive heat be generated at the drilling edge
- ... Use dry diamond cores on very hard materials, such as; reinforced concrete, hard concrete, granite and Indian sandstone.

PRIMARY RECOMMENDATIONS

- 1** Use a dedicated diamond core machine wherever possible. SDS plus machines can be used to dry core drill, however, most SDS machines rev at only around 600rpm; this means reduced torque and much slower drilling compared to dedicated dry core machines which rev up to 2500rpm.
- 2** Pre-drill the wall first with a 13mm masonry bit and use the guide rod provided. Do this instead of using an A-taper pilot drill which would mean a drilling speed equal to that of only the drill bit instead of the diamond segments. Pre-drilling a pilot hole and using the guide rod also helps to ensure the machine and core remain level whilst drilling.

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