

DIAMOND CORE DRILLING

Dry diamond cores from ARMEG offer the quickest, cleanest and most economical way to drill soft abrasive materials such as standard facing bricks and concrete building blocks. For optimum performance and perfect results use any rotary drill with a minimum drive power of 850 watts. The machine should also be capable of speeds up to 3000rpm and have variable speed control and a slipping clutch.



Safety and Operation Guidelines

ALWAYS

- Drill a pilot hole in the wall first with a 10mm masonry bit.
- Use an 850 watt (minimum) rotary drill with a slipping clutch and variable speed control.
- Locate the 10mm A-taper guide rod down through the core and push fit the guide rod into the adaptor.
- Make sure the chuck is tight.
- Clear the debris at regular intervals, as build-up of dust leads to inefficient drilling and can result in overheating, excessive clutch wear and possible loss of segments.
- Use the machine between 350 and 3000 rpm.
- The harder the material and larger the diameter of the core, slower the rpm.
- The softer the material and smaller the diameter of the core, higher the rpm.
- Faster rotational speeds do not always mean better material penetration - please refer to the recommended speed chart overleaf.
- Rotate the core drill whenever entering or removing from the hole.
- Keep the machine level.
- Reduce pressure if the bit starts to vibrate.

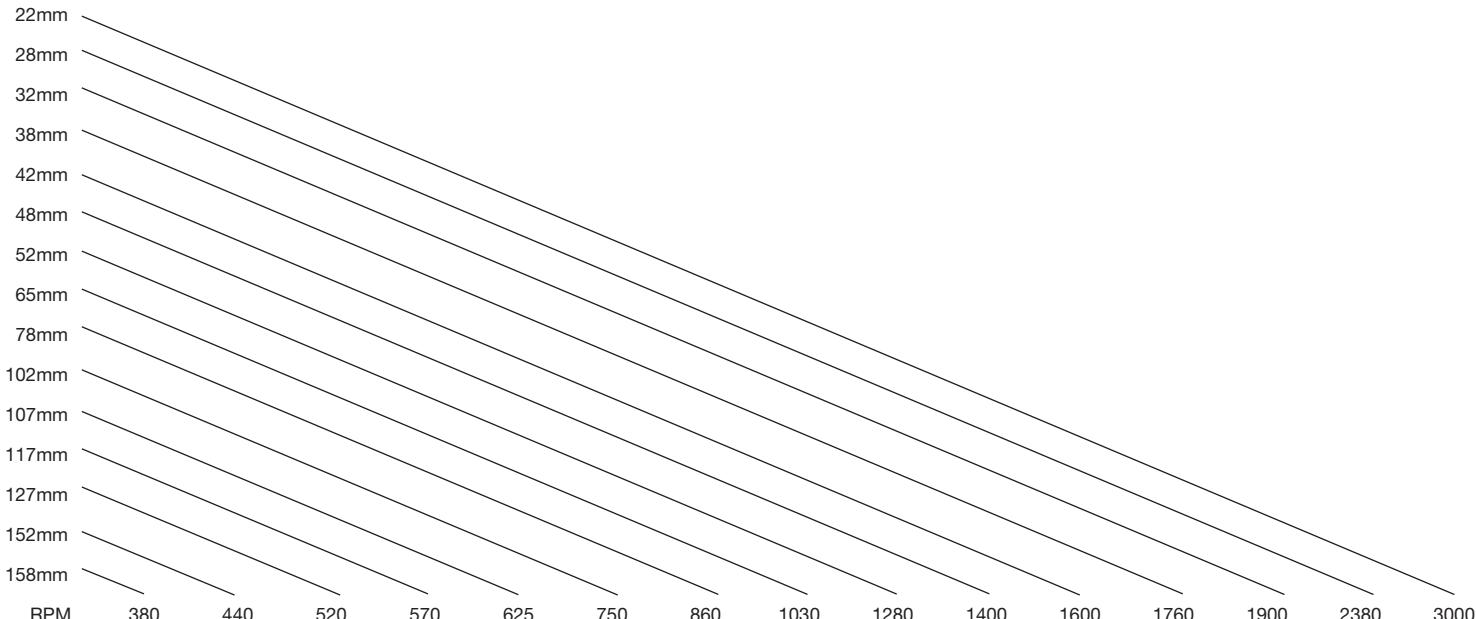
NEVER

- Drill concrete.
- Use hammer action when drilling with a diamond core drill.
- Force the core - let it do the work. This prolongs the life and reduces the chance of failure.
- Make long, continuous drilling motions without clearing the debris.
- Let excessive heat be generated at the drilling edge.

IF DRILLING WITH SDS PLUS MACHINES

- Whenever possible use a dedicated dry diamond core drilling machine.
- While SDS Plus machines can be used, most can only rev up to 1200 rpm which means reduced drive power and slower drilling speeds compared to dedicated dry diamond drilling machines.
- Using SDS plus machines for dry diamond drilling increases the risk of product damage and exposure to hand arm vibration.
- Do not use the SDS Plus adaptor with the 117 and 127mm cores.
- These diameters are beyond the capability of SDS Plus machines - adaptor and machine damage could occur.
- If adaptors should fail whilst drilling with these cores then they will not be warrantable.

Core
Size



- Speed may be adjusted to suit site conditions.
- Increasing drill speed (rpm) when drilling abrasive materials will prolong the core drills life.
- Decrease the drill speed to prevent overheating when drilling harder materials.
- Machine type and material are the controlling factors to life and speed of core. Ultimately machine and operator determine the overall performance.