

Coring or Drilling Options

1. Purpose

There are two acceptable ways of coring or drilling into concrete or asphalt for the installation of the City Post anchor cups. Coring is done with a diamond tipped wet masonry coring bit, while drilling is done with a rock drill (pneumatic) and is a dry process. In this bulletin we will provide some general information about both methods to help you decide which technique is best for your application:

Masonry Coring:

The drill and bits can often be rented from most of the rental tool companies found in the United States. You will need to get a core bit that is slightly larger than 2" in diameter:

- Mounted Hammer Drill – water jacketed
- 2" + diameter Core Bit
- Water Source to cool the bit (orange hose in the photo shows connection)
- Portable power source to run the electric drill.

Ease of Use: Extremely easy to drill proper holes for the project as long as normal operating procedures by the drill manufacturer are followed.

Cost of Install: Couple hundred to thousand dollars to hourly or daily, price will vary by location.

Time to Drill: Approximately 6 minutes not counting time to dry the hole.

Required Skill: Minimal as long as you can line up the core bit above the location. There is no heavy equipment to hold up.

Number of people: One is all that is needed it will go faster with multiple.

Manufacturers: Bosch, Hilti, Ingersoll Rand, others



Pneumatic Rock Drilling:

This is a bit more specialized of a piece of equipment; you will need to check with local tool rental locations for availability. The big advantage here is there is no water is used. In addition, while drilling the air drive cleans the hole as it drills so the anchor cup can be immediately installed:

- 50 Pound Pneumatic Rock Drill
- 2" + Drill Bit
- Air Compressor powerful enough to run the drill.
- Portable power source to power the compressor



Ease of Use: Relatively easy as long as normal operating procedures by the drill manufacturer are followed.

Cost of Install: Several thousand dollars to purchase, all tools should be available from rental tool companies.

Time to Drill: Approximately 1 minute in asphalt and 2 – 3 in concrete.

Required Skill: Some skill with heavy pneumatic tools is required. It is the responsibility of the user to center and keep the hole straight during the process.

Number of people: One is required, but two makes lighter work with heavy tools.

Manufacturers: Texas Pneumatic, Chicago Pneumatic, Atlas Copco, American Pneumatic Tools, Ingersoll Rand, others....



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