WIRE SAWING

Diamond wire sawing allows almost any large concrete or masonry structure to be cut where other methods are not feasible. It is an ideal tool for cutting and removing reinforced concrete, such as bridge decks, jetties, columns or beams.

Wire saw cutting originated in the stone quarries of Europe and has been adapted to become a fast, safe, and cost effective alternative to conventional demolition methods.

Where sawing very thick, deep or hard to access material, wire sawing is the solution.

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Diamond wire sawing is particularly useful when extremely thick and/or awkward shapes need cutting.

Using this technique, a diamond-infused wire is fed through a sequence of guide pulleys and passed through or around the section of concrete that needs cutting and then formed into a loop. The wire loop is then pulled continuously through the concrete section until the cut is accomplished. The wire is cooled and flushed by free flowing water at all times. This helps to ensure ease of cutting and minimize overheating whilst in operation. As the wire is pulled through the object, any excess wire is stored on to a series of pulleys and stacked within the looping system.

Using high frequency electric or hydraulic equipment, this is the fastest way of cutting heavily reinforced concrete.

Some of the features of Diamond Wire Sawing:

- Electric and Hydraulic machines available, depending on application and environment
- Vertical and horizontal angled cutting
- Can be used to do circular openings
- Non-percussive, fumeless and quiet
- Produces a smooth cut face
- Unlimited cutting depth
- Flexible and quick
- Mass concrete removal without breakage
- Cut through heavy rebar and embedded steel

Typical Wire Sawing applications include:

- Cutting piles
- Performs cuts in restricted locations, including confined spaces
- Dam walls
- Bridges, bridge decks
- Underwater cutting