



**TO DISCUSS YOUR NEXT PROJECT**

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## **HAND SAWING**

Hand held sawing refers to portable saws that are fitted with diamond blades. Hand sawing is more convenient for smaller jobs, where manoeuvrability and space is limited and the depth of cut required is moderate.

The Ring Saw differs from other saws because the blade is not put on a spindle, the blade has no core (centre) and it rotates on a roller system. The depth of cut is limited by the blade diameter, but up to 265mm can usually be managed.

Greater depths can be achieved using other hand held sawing such as a Dragon Saw or a Flush Cut saw, where depths of 400mm are achievable.

Ring Sawing is commonly used in conjunction with a handsaw, to achieve a depth of up to 265mm. A Hand Saw is used as a pre- cutting device to achieve an initial depth of 150mm. The Ring Saw is then used to go deeper.

### **Depths:**

- Hand Saws - Cut to a maximum depth of 150mm deep
- Ring Saws - Cut to a maximum depth of 265mm deep
- Flush Cutter - Cut to a maximum depth of 200mm deep
- Dragon Saw - Cut to a maximum depth of 400mm deep

### **Types of Hand held Saws:**

- Petrol Saws - Used for all outside works
- Hydraulic Saw - Used when there is poor ventilation where cutting are required.
- Electric high frequency – Also used for indoor, enclosed, or confined areas.

The hydraulic power pack that runs the hydraulic saw comes in two options.

- Petrol - When an outside area is available within 20 metres of the cutting location
- Electrical - When no outside areas are available to sit the power pack, 3 phase electrics are required

### **Typical Hand held sawing applications include:**

- Formation of new doorways and windows
- Expansion cutting into new concrete
- Demolition cutting of walls and floors
- Penetrations for service ducts
- Creating openings for electrical and plumbing services
- Sawing concrete pipe to length
- Cutting in Confined Spaces (using hydraulic or electric equipment)
- Creating openings in reinforced concrete floors where access is restricted (ie Riser Cupboards)
- Cutting or Widening Expansion Joints