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**Product Name :**

Core Drilling Machine (Petrol)

**Product Code :**

SLE/CE/82



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## Description :

**Core Drilling Machine (Petrol)** (Product Code: SLE/CE/82) is a wheel-mounted pavement core drill used to cut cores up to 200 mm diameter from concrete, asphalt and similar hardconstruction materials. Road and building testing teams use it where mains power is not at hand,because it runs on a 6.5 HP four-stroke petrol engine (190 cc) with drill speeds of 900 and 350rpm. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

### Specifications

| Parameter | Detail |
|---|---|
| Application | Cutting cores from concrete, asphalt and similar hard construction materials |
| Maximum core diameter | 200 mm |
| Engine | 6.5 HP four-stroke petrol engine, 190 cc |
| Drill speeds | 900 rpm for soft samples; 350 rpm for hard samples |
| Feed | Ball screw mechanism for close control of drilling pressure and rapid return |
| Column | Vertical support column carrying the drill head and engineassembly |
| Head travel on rack | 500 mm |
| Water | Water spraying assembly mounted on the machine; water swivel built in |
| Base | Rigid wheel-mounted metal base frame with levelling and fixing facility for operation; approx. 625 × 900 mm |
| Height | Approx. 1300 mm |
| Accessories listed | Thin-wall diamond bits; core barrel (coring bits are ordered separately — confirm in the quotation) |
| Product code | SLE/CE/82 |
| Manufacturer | Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India |

### What Is the Petrol Core Drilling Machine Used For?

Cores drilled from hardened concrete and bituminous pavements let engineers check what was actually built: layer thickness, compaction, density and, after trimming, compressive strength in the laboratory. The drill head runs down the column under ball-screw control, so the operator can apply steady pressure through the cut and then return the head quickly. Water fed through the built-in swivel cools the diamond bit and flushes out cuttings.

Choose 900 rpm for softer layers such as asphalt and 350 rpm for hard concrete. Level and fix the wheeled base before starting, keep the water flowing throughout the cut, and wear eye and hearing protection. Because the engine runs on petrol, operate it in a well-ventilated area and practise safe refuelling.

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