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Product Name :

Core Drilling Machine (Petrol)

Product Code :

SLE/CE/82



Science Lab
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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 supplied 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 andrapid return
Column	Vertical support column carrying the drill head and engine assembly
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
Supplied by	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. Check the engine oil and fuel before each shift, and practise on a scrap slab before drilling a test specimen.