

PEVENT CORE DRILLING MACHINE

BE 97

Pavement core drilling machines with petrol (gasoline) engines are specialized tools designed for extracting cylindrical core samples from asphalt, concrete, roads, bridges, and similar hard materials. These machines are essential in construction, civil engineering, and quality control testing (for super pave programs or standards like EN 12697-27 and ASTM D5361). Petrol engines provide portable, independent power, making them ideal for field use where electricity isn't available. They typically feature vertical drilling capabilities, water cooling systems to flush debris, and diamond-tipped bits for durability.

FOLLOWING STANDARD

EN 12697-27 and ASTM D5361

DISCRIPTION

KEY ADVANTAGES INCLUDE

- **Portability:** Many models are lightweight (e.g., 22 lbs for hand-held units) and can be carried in a pickup truck or mounted on hitches for quick setup.
- **Power Range:** Engines from 4 HP to 17.5 HP, allowing for efficient drilling in various materials.
- **Core Capacity:** Up to 200 mm diameter and 700 mm depth, with speeds adjustable (e.g., 350–1100 RPM) for soft or hard samples.
- **Ease of Use:** One-person operation, minimal vibrations via pulley mechanisms, and quick bit changes.

Model	Engine Specs	Core Capacity	Weight/Portability	Key Features
BE 97-01	31cc, 4-cycle Honda, 1.5 HP	Up to 7" (178 mm) dia., vertical/horizontal	22 lbs, ultra-lightweight, hand-held	For concrete/asphalt/soil; includes water swivel; ideal for road/bridge contractors
BE 97-02	11.5 HP petrol	Up to 200 mm dia., 500 mm depth	110 kg, pickup truck portable	Rugged for all materials; fixed coupling bits; Superpave compatible
BE 97-03	Not specified (petrol assumed)	Up to 200 mm dia.	Portable	For concrete/asphalt; vertical support column
BE 97-04	Honda 5.5/6 HP	Up to 200 mm dia. x 450 mm depth	Portable	For asphalt/concrete/reinforced structures; EN/ASTM compliant
BE 97-05	5 HP petrol with pulley	25–150 mm dia., up to 700 mm depth	Rigid base, leveling feet	Low vibrations; speeds 475/800 RPM; for roads/runways
BE 97-06	6.5 HP, 4-stroke, 190cc	Up to 200 mm dia	Height 1300 mm, base 625x900 mm	Two speeds (350/900 RPM); includes core barrel and bits
BE 97-07	Not specified (gasoline)	Up to 6" (152 mm) dia	Portable, truck-mountable	Fast setup; low bit wear; for slabs/pavements
BE 97-08	17.5 HP, 4-cycle with electric start	Up to 16" (406 mm) dia., 300–1100 RPM	Trailer/van mountable	For concrete/asphalt/rock; battery charger included

