



HR-2500



HR-2503



HR-2504



HR-2508

Electric Core Drill— HR-2500

Electric Core Drill, 230 50/60Hz— HR-2500.4F

The electric model offers full feature flexibility, adapting to a wide range of drilling applications in addition to pavement core sampling. Includes a two-speed (350-900 RPM), 3.5 HP 20 amp heavy-duty motor, waterproof switch box, built-in water swivel, continuous duty oil-less vacuum pump, filter, hose, quick connections and has a 12-inch bit diameter capacity. Easy transport with 6-inch wheels. The 10" (254mm) wide base is a vacuum pad anchor with more than 1000 pounds of vacuum force that solidly grips the drilling surface within seconds, making it the ideal drill stand for floors, walls, ceilings, as well as, pavement. When snapping cores and adding extension rods, motor and carriage can be removed/attached without changing drill location. For wall drilling, base and column are attached to the wall by the vacuum, then the carriage and motor are added. When working in limited space areas, drilling is possible with the base removed. Adding the optional Angle Drilling Attachment allows the column to tilt up to 45 degrees from vertical. Requires water supply, if none is available order HR-2516 portable water pressure tank separately. Order diamond bits and expansion adapters separately. Shipping wt. 130 lbs. (59kg).

Gasoline-Powered Core Drill— HR-2503

Electric Start Gas-Powered Core Drill— HR-2503E

Drill twice as fast as electric with a gasoline-powered core drill. Features include a 10.5 HP, 4-cycle, pull-start or electric-start gasoline motor, 8-inch diameter bit capacity, and an effortless ball-screw feed system for single operator use. Can be carried in pick-up or van for easy transport. Quick set up, dead weight machine requires no anchor bolts or mounting hardware. Requires water supply, if none is available order HR-2516 portable water pressure tank separately. Order diamond bits and expansion adapters separately.

Gasoline-Powered Core Drill— HR-2504

Same as above units, but with a 16-inch diameter bit capacity and a 13 HP, 4-cycle, electric start gas motor.

Hand-Held, Gasoline Powered Drill— HR-2508

For fast, economic drilling—either vertical or horizontal—of concrete/asphalt and/or auger drilling into soil. Easy-to-handle, 22 lbs. overall weight. Quick set-up, easy-to-use, reliable. 2.5 HP, 2-cycle gasoline engine, high performance water swivel, Bit Locator. Accepts up to 6-1/4" dia max. bit. Shipping wt. 30 lbs. (13.6kg)



HR-2600

Core Drill Trailer System— HR-2600

This complete stand-alone core drill rig offers field independence, versatility, dependability, and easy single person operation. Features include; HR-2504 Core Drill Machine, a variable positioning system, which allows for approximately 48-inches side-to-side and 12 inches fore and aft drill head movement for accurate hole placement, a hydraulic assisted machine lift allows single operator removal and replacement of drill head for remote drilling applications, a 200-gallon water tank and 12 VDC water pump for a full day of drilling, and a lockable weather-resistant toolbox is added for storage of tools and drill bits. All mounted on a 5 ft. by 8 ft. (approx. bed size) steel construction trailer, equipped with electric brakes and Order diamond bits and expansion adapters and auger blades separately.



Bit Size	Diamond Bit	Adapter
2" (51mm)	HR-2520.2	HR-2540.2
2-1/2" (64mm)	HR-2520.25	HR-2540.25
3" (76mm)	HR-2520.3	HR-2540.3
3-1/2" (89mm)	HR-2520.35	HR-2540.35
4" (102mm)	HR-2520.4	HR-2540.4
4-1/4" (108mm)	HR-2520.42	HR-2540.42
4-1/2" (114mm)	HR-2520.45	HR-2540.45
5" (127mm)	HR-2520.5	HR-2540.5
5-1/2" (140mm)	HR-2520.55	HR-2540.55
6" (152mm)	HR-2520.6	HR-2540.6
6-1/4" (159mm)	HR-2520.62	HR-2540.62
6-1/2" (165mm)	HR-2520.65	HR-2540.65

Diamond Tip, Core Drill Bits, Open-Ended

Economical, Open-Ended Drill Bits for use with reusable Expanding Adapter. Adapter is designed for quick and easy attachment of bits. Two beveled plates tighten expander ring firmly against inside of bit barrel to attach to drill machine. Expanding Adapters are size specific.



CoreSnap, 4" — HR-2554 CoreSnap, 6" — HR-2556

The CoreSnap allows you to remove a drilled sample from a roadbed at or below the tackline without prying or drilling completely through the old roadbed. The CoreSnap is placed down over a normally cut core and tighten the binding bolt with a 1/2"-drive socket/ratchet. A quick lateral motion of the handle breaks the core sample away from the older mat beneath, allowing the core to be removed easily.



HR-2554

Diamond Tip, Core Drill Bits

Professional Series for critically hard concrete with heavy steel reinforcing. Total segment height is .320" (.250 diamond depth and .070 segment base). Standard bit length core sample is 13". Bits use a 1-1/4"-7 thread adapter.

Bit Size	Diamond Bit
2" (51mm)	HR-2530.2
2-1/2" (64mm)	HR-2530.25
3" (76mm)	HR-2530.3
3-1/2" (89mm)	HR-2530.35
4" (102mm)	HR-2530.4
4-1/4" (108mm)	HR-2530.42
4-1/2" (114mm)	HR-2530.45
5" (127mm)	HR-2530.5
5-1/2" (140mm)	HR-2530.55
6" (152mm)	HR-2530.6
6-1/4" (159mm)	HR-2530.62
6-1/2" (165mm)	HR-2530.65



Core Drilling Machine Accessories

Models

Extension Rod, 9" (229mm) for drilling holes deeper than 12" (305mm)	HR-2510
Water Trapping Assembly, confines wastewater on surface and electric pump mover water into container	HR-2511
Diamond bit edge dresser	HR-2512
Replacement wheel for diamond bit edge dresser (HR-2512)	HR-2513
Strap wrench, 18" (457mm) allows bit removal from drill spindle without damage to bit barrel	HR-2514
Angle drilling attachment for HR-2500. Tilts column to allow drilling from 90° to 45° angle from surface	HR-2515
Portable water pressure tank. Hand-operated. 4 gallon (15 liter), delivers water under pressure when water supply is not available.	HR-2516



HR-2514



High-Low Detector (Rolling Straight Edge)
High-Low Detector, 10 ft. (3m) Span— H-2790
High-Low Detector, 12 ft. (3.7m) Span— H-2791
High-Low Detector, 16 ft. (4.9m) Span— H-2792

Used to measure planeness of pavement surfaces, such as highways, airport runways, bridge decks, etc. Requires only one operator to detect, register, and dye mark high and low areas that need to be ground down or filled.

- Easy-to-use
- One-person operation
- Vertical sweep vertical indicator

Operator has full view of variations which are magnified 16 times, on a vertical scale graduated in 1/8" (1mm) increments, so that magnified readings range up to 1/4" (6.4mm), high or low. The 16 ft. long model incorporates aluminum reinforcing riveted along both sides of the frame for added support and rigidity.

Specifications

Frame	Rectangular aluminum
Wheels	One front, one rear for support, with one indicator wheel, center. Provision to check wheel alignment. Precision ball bearings, neoprene tires. Scraper blades keep wheels clean to maximize accuracy. Includes wheel stands for stabilizing during calibration, transport, and storage.
Dye	Bright orange, 12 oz. (340g) aerosol can. Non-clogging, contains no fluorocarbons. Mounts beside indicator wheel.
Steering Handle	T-type with button for discharge of dye
Scale	Vertical with large pointer, magnifies variations 16x, mounted above indicator wheel
Graduations	1/8" or 1mm
Readings	Magnified, High or Low Range: 0 to 1/4" (6.4mm),

Bell/Buzzer Indicator— H-2790B

Sounds simultaneously with visual indicator, 9V DC battery

Aerosol Dye, 12 Pack— H-2790D

12 pack of 16oz. (454g) spray cans

Benkelman Beam— H-3220

Measures the deflection of a flexible pavement under moving wheel loads. Extremely accurate and easy to use. Direct-reading dial indicator eliminates need for conversion tables or field calculations.

- Precision accuracy
- Easy to use on test site
- Lightweight, quick set-up
- Easy to transport, easy to store
- No need for conversions or field calculations

Dial indicator vibrator system assures accurate pavement measurements. Telescoping design adds convenience, reduces weight, and saves storage space. Lightweight aluminum construction. Order dial gauge separately. AASHTO T256.

Specifications

Main Body	Aluminum with black finish 55" (1397mm)
Probe Beam	Telescopes into body, aluminum 8 ft. (2.4m)
Probe Fulcrum	Provides lever ratio of 2:1, ball pivot bearing
Vibrator System	Assures measurement accuracy. Operating switch mounted on top of instrument section. Requires 4 "D" size batteries
Dial Indicators	Ordered separately. Compensated for direct reading
Leveling Wheel	Adjusts beams to proper elevation
Overall Length	With beam fully extended 12 ft. (3.7m).
Shipping Weight	40lbs. (18kg)

Horizontal Dial Indicator— H-3221H

0.4" range x 0.002" divisions

Vertical Dial Indicator— H-3222

1" range x 0.002" divisions

Vertical Dial Indicator— H-3222M

25mm range x 0.02mm divisions



Portable Skid Resistance Tester— H-3204

Measures friction (skid resistance) on flat, cambered, or gradient road surfaces. Originally developed by the Transport and Road Research Laboratory of Great Britain.

- Compact, easily transported & used in the field
- Can be used in remote locations, independent of any vehicle
- Enclosed bearings & working parts for protection against wear and contamination
- Heavy-duty frame construction
- Adjustable feet on base

A pendulum arm, having a spring-loaded rubber slider on the pendulum foot. Device is placed on the portion of the road surface to be tested. It is then leveled, and the height of the center of suspension of the pendulum is adjusted to a fixed value which is read on a special gauge.

The pendulum is then released from its horizontal position, to swing down freely until the rubber slider contacts the test surface. As the slider travels across the surface for a fixed distance, the pendulum is slowed and a frictionally-constrained pointer affixed to the pendulum arm measures the highest point in the pendulum arc. The position of the pointer is then read on a measuring arc graduated from 0 to 150. Pointer readings indicate the resistance to skidding of the test surface. Dimensions (include carrying case): 31" x 25.5" x 9" (787 x 648 x 229mm). Meets ASTM E303.

Shipping wt. 75 lbs. (34.0kg)

H-3204 Accessories

Model

Rubber slider, 1-1/4" , for lab use	H-3207
Rubber slider, 3" , for field use	H-3208
Laboratory base plate	H-3206

Accelerated Polishing Machine— H-3205

The Accelerated Polishing Machine polishes samples of aggregates, simulating actual road conditions, and is used in conjunction with the Portable Skid Resistance Tester to determine the Polished Stone Value for aggregates used in road surfaces, and gives a measure of the resistance to skidding. Fourteen specimens are clamped around the "road wheel" of the polishing machine, and subjected to two stages of polishing by a loaded rubber tire. First by corn emery, and secondly by emery flour. Use of the Accelerated Polishing Machine and the Skid Resistance Tester in road construction has had a major influence in reduction of accidents.

The H-3205 features:

- Heavy welded steel mainframe, standing in adjustable pads
- Digital display preset timer and revolution counter.
- Specimens are easily affixed and removed from testing wheel
- Water gravity fed from high level tank through calibrated flowmeter.
- Used abrasive and water collected in removable tray.
- Loaded tire raised and lowered to the running surface by mechanical lifting device.
- Easily removed covers and guards protect operator during testing and safety switch ensures removable safety covers are in place.