Electric/Hydraulic Laboratory Core Drill Stands

CRT-LABRDRIL-H&E

Rigid floor fixing and water swivel that ensures flow of coolant to drill tips

Laboratory Core Drilling Stands

To carry out any form of testing straight & clean sided core samples are required. Vibration of a diamond core drill during the coring process will result in a badly finished core that will need to be 'dressed' before any meaningful testing can be carried out. In addition vibration of a core drill will also quickly damage the diamond cutting face by erosion of the individual diamonds resulting in rapid wear rates. Coring should always be carried out using a rigid, stable & vibration free operating platform to ensure the integrity of core samples.

The drill stand is a steel framed unit manufactured in mild steel with a high quality powder coated and oven baked paint finish giving it a quality appearance and long lasting protection. Its rigid drill platform can be permanently fastened to the floor and is therefore ideally suited for use in a test environment. It can drill cores from a sample of asphalt or concrete material held by a clamp mechanism situated within the water tank. The drill stand is complete with a water swivel that allows connection to a water supply thus providing a coolant to the drill bit face.

Manually operating the drill feed into the surface with a constant applied load achieves optimum feed rate and maximum drill life. During the coring process water is pumped through the core bit to provide cooling at the drill face and to flush away any loose material. The rubber lined water tank allows for collection and drainage of the cooling water.

Hydraulic operation allows the drill motor to rotate at the optimum speed for the particular surface material. Manually operating the drill feed into the surface with a constant applied load achieves optimum feed rate and maximum drill life.

The unit can be supplied with a hydraulic drill motor CRT-LABDRIL-H or an electric drill motor CRTLABDRIL- E to suit. The manually operated drill feed control provides for rapid but safe drill penetration with minimum core bit wear rate.

Key Features

- Petrol engine 5.2KW hydraulic version, 2KW Electrical version
- Rigid floor fixing and water swivel that ensures flow of coolant to drill tips
- Drill diameters up to 110 mm (4.3 inch)
- Drill depths up to 500 mm (19.6 inch)
- Wide variety of hydraulic or electrical drill motor options
- Electrically pumped water feed is available when using a hydraulic drill motor
- All units supplied with water swivel
- Platform allows for rigid floor mounting

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Key Uses

- Medium duty coring in both asphalt, concrete or rock samples
- Ideal for drilling test cores in a laboratory environment from small samples

Accessories

Accessories are not included in the price of main device (unless stated otherwise) and may be purchased separately if required.

CRT-DRIL-BARREL-057	57mm OD Diam Drill Barrel (For 50mm Core Samples)
CRT-DRIL-BARREL-100	107mm OD Diam Drill Barrel (For 100mm Core Samples)

Specifications

Technical specifications are subject to change without notice.

Electric Drill Supply	110-120 Volt or 220-240 Volt frequency supply 50-60Hz available
Hydraulic Drill Supply	20 litres per minute @ 90 bars (5.2KW supply)
Hydraulic Drill Motor	Hydraulic drill motor can be powered using an Electra 7 (see accessories)
Water swivel	Adjustable water feed control
Drill Bit Capacity	110 mm maximum
Drill Bit Length	450 mm maximum
Water Supply	Adjustable water tap c/w input hose
Tank Size mm (WxDxH)	400 x 420 x 300
Tank Drain	BSP connection for water drain facility
Dimension mm (W x D x H)	460 x 470 x 1016
Estimated Weight Kg	50

Maintenance

Annual Service and Maintenance Contracts are available for this device.
Please enquire for further details. Note: This device should be checked and calibrated annually.

Product Gallery:

Datasheet Version: 19.01/01

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