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Concrete Core Sample Grinder



A vacuum operated dust extractor collects the grindings in a sample holder for chemical analysis. A separate vacuum cleaner with suitable attachments is provided as part of the system.

Specification

Grinding head

- cutting wheel diameter 110mm
- cutting wheel speed 10000rpm
- Max. depth of cut 2mm
- operating voltage 110v 50Hz

Dimensions

- 550mm wide x 500mm deep x 580mm high
- footprint on worktop 230mm x 380mm
- approximate weight 50kg

Vacuum Cleaner

- 9L capacity pick up tank cleaner
- operating voltage 110v 50Hz
- power 1000W
- weight 6kg

About PCTE

PCTE have over 30years experience in the measurement and testing of concrete. With experience in research, consulting and construction they are able to assist you in reviewing the issues and developing solutions. PCTE can provide more than just the equipment. They can provide leading technical support for your business.

Other Equipment

The full Proceq range of equipment is available for insitu non destructive concrete measurement, including Schmidt Hammers, Covermeters, Half Potentials, Resistivity, Ultrasonics and Permeability. We also supply Intelli-Rock maturity, temp and humidity logging systems, corrosion rate monitoring equipment, Ground Penetrating Radar, and Impact Echo.

Introduction

One method of determining the properties of the hardened concrete in a structure is to remove cores using a suitable diamond corer. These cores are then tested for mechanical strength or for chemical composition.

For chemical testing, the cores can be placed in the Concrete Core Sample Grinder, and ground back in successive layers, the grinding dust being collected for chemical analysis.

Procedure

The machine consists of a radial arm grinding head, which pivots about a horizontal axis, mounted on a solid steel support frame. The grinding head is fitted with a 110mm diameter diamond impregnated cutting wheel which rotates about a horizontal axis.

A hand operated counter balanced lever moves the grinding head easily downward in a vertical plane, grinding the face of the core, which is mounted horizontally in V blocks carried on a two way slide system.

An electronic depth gauge is used to indicate the current position of the grinding head relative to the outer face of the core.