

CHAPLIN Abrasion Tester

101-C0096-20

MatCivTest
MATERIAL CIVIL TEST EQUIPMENT

CHAPLIN Abrasion Tester New lightweight model

Standard: Meets: - BS 8204: 1987: Part 2 and EN

The BCA (Chaplin) Abrasion Tester gives a guide to the abrasion resistance of concrete floors. It can also be used to test the effectiveness of surface treatments used to protect or upgrade sub-standard floors.

The depth of wear in the concrete floor brought about by the action of 75 mm diameter by 20 mm wide hardened steel wheels is used as a guide to the abrasion resistance. The apparatus is suitable for compliance testing to the requirements of BS 8204: 1987: Part 2 and EN 13892-4. The abrasion tester consists of three 75 mm diameter hardened steel wheels mounted tangentially on a circular steel carrier plate.

The wheels are fitted such that they are free to rotate but not castor. The carrier plate is connected to a single phase electric motor which runs at approximately 180 rpm with the help of reduction gear mounted in a steel frame.

The main difference between old and new model

New model

- use weight of motor and gear box as the dead weight so we are able to reduce the total weight of the instrument
- we used VFD to reduce the rpm to 180
- New model weight 90kg

Old model

- has extra weight set, to meet the dead weight requirement of 85 kg.
- uses two gears to meet requirement of 180 rpm
- Total weight 160kg



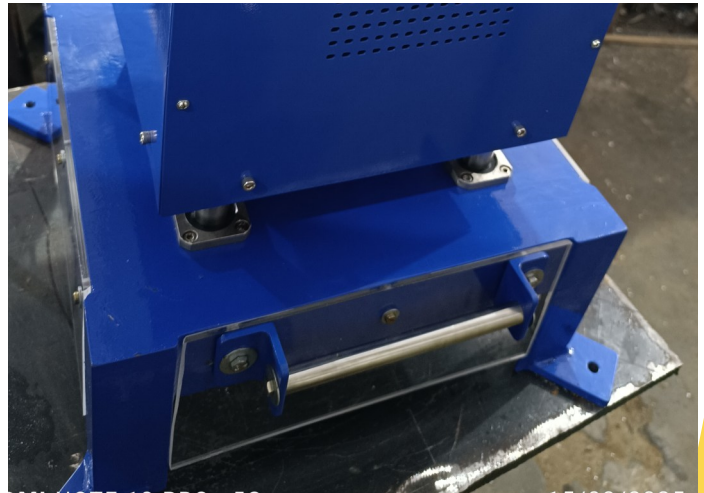
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Safety Guarding

The rotating members of Abrasion Tester are completely covered by a see through covers which act as a Safety Enclosure.



Transport handle

To assist moving the machine around the site a transport handle is provided



Controls

Control box, which monitors the number of revolutions executed by the shaft of the motor and controls RPM. At the end of a preset number of revolutions, a counter in the control box switches off the device.

Machine includes

The Tripod is provided with digital Dial Gauge for testing wear and tear.

Power supply single phase 50 HZ 220 volts 1 HP .



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Mounting equipment

The unit is supplied with a drilling fixture to assist in mounting the machine. Also included are 4 mounting pins for location into the concrete



Measuring fixture

The unit is supplied with digital measuring fixture to allow accurate repeatability measurements as required by the standard.

