



Ankarin Material Testing Equipment

WIDE WHEEL ABRASION TESTING MACHINE

It is used to calculate the abrasion resistance of all natural, artificial, and manufactured materials. Test results are validated by comparing them against a reference marble sample used for calibration purposes; the reference marble must be ordered separately.

The device features a movable sample table and operates on the principle of abrading the sample under a user-defined load. Variable weights totaling approximately 2 kg are supplied with the device. The movable table can be locked in position prior to testing. A notched block, upon which the sample is placed, is mounted on the movable test table; this block includes a locking mechanism to secure the sample.

The abrasion disk is made of hardened material and measures $\varnothing 200 \text{ mm} \pm 0.5 \text{ mm}$ in diameter and $70 \text{ mm} \pm 1 \text{ mm}$ in thickness. It operates at a rotational speed of $70 \pm 2 \text{ rpm}$.

An abrasion sand hopper is provided to feed the abrasive material to the contact point between the sample and the abrasion disk. Abrasive powder flows from this hopper into a second distribution funnel—matching the thickness of the abrasion disk—and is then deposited into the gap between the test sample and the abrasion disk. Equipped with a digital control panel, the device allows for the automatic setting of the number of revolutions; it stops automatically once the preset number of revolutions is reached. A 25 kg supply of abrasive powder is included with the device.

The device operates on 220 V, 50 Hz power.

