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Sieve Shaker



The commonly used in laboratory to confirm the accuracy of existing specifications of materials

Principle

The Sieve Shaker imparts a circular motion to the material being sieved so that it makes a slow progression over the surface of the sieve.

At the same time a feature of the rapid vertical movement agitates the sample which helps to clear the sieve apertures and avoid them blinding.

The operating time of a sieve shaker is very important for sieve analysis result.

The sieve stack has a range of different aperture sizes, and some are smaller than the nominal and some are larger. The longer the running time for the shaker, the greater chance for larger-than-nominal particles coming through the sieve that are not supposed to. If the stack of sieves has a wide range of aperture sizes, there is likely to be a compounded error.

There are industry standards for sieving operating times for different materials to refer to. However, to determine the correct operating time for a new material, or to confirm the accuracy of existing specifications, the following five steps can help to set up a more accurate operating time.



Demonstration

Step 1. Weigh up the sample needed to be tested and prepare a stack of test sieves and a sieve shaker.

Step 2. Run the sieve shaker for 5 minutes first, and weigh the residue in the pan. Record in column 3 (weight), and calculate the percentage increase in relation to the starting weight .

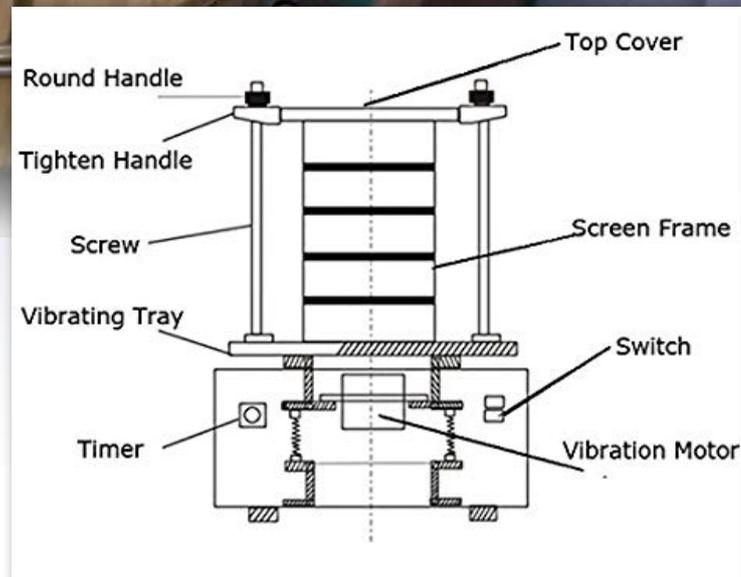
Step 3. Run the sieve shaker for one additional minute, weigh the residue and record the number and increased percentage compared with the 1st test.

Step 4. Repeat Step 3 a few times, and keep recording the data.

Step 5. When the percentage increase drops below to 1%, the total operation time should be recorded and the test completed.

When the change in percentage of sample passing through in the 1 minute period drops to below 1%, the total operating time can be considered a relatively accurate shaking time for subsequent analysis.

Schematic Guide ►



Technical Specifications

Dimensions	Weight
540x372x1013 mm	75 kg

Main Features

- Sieve capacity: up to twelve 200 mm (8") and up to eight 300 mm (12") sieves plus pan and cover.

Ordering

SL 0145 Sieve Shaker with Time Adjustment, for 200 mm (8") & 300 mm (12") dia. frame sieves

SL 0145-1 Sieve Shaker with Frequency and Time Adjustment, for 200 mm (8") & 300 mm (12") dia. frame sieves



Geotechnical Testing Equipment UK Ltd
Grange Farm, Milton Keynes
England, Great Britain
MK8 0PJ

info@Geotechnical-equipment.com
www.Geotechnical-equipment.com
Tel: +441908 766 400, 401