What to look for in a good sieve shaker

There are three essential characteristics to look for in a good test sieve shaker. It should generate an effective sieving action for tests to reach an ultimate end point. The end point should be reached in the shortest possible time. The results achieved should be reproducible.

The construction of the shaker is all important too if it is to provide a long trouble free life. One powered by an electromagnet has the distinct advantage of no mechanical parts that might need servicing or replacing.

3D Performance

Vertical vibration is generated by the on/off frequency of the electromagnet. However, vertical vibration is not enough to impart the correct movement for sieving. The shaker needs to twist the sieve stack - this rotating action ensures the sample passes over the full surface of the sieve and the maximum number of apertures to give rapid accurate results.

Other useful features that can increase performance, shorten sieving time or simply make life easy are, amplitude vibration control, continuous or intermittent vibration control, timer, correct and consistent clamping pressure, anti-vibration feet and a difficult one - low noise level.

At Endecotts we design and engineer our shakers around the key features listed above. We ensure that the design performance provides the optimum sieving action to the sieves to give rapid accurate results.

As manufacturers of test sieves we understand how sieves and shakers interrelate. This knowledge is built into every model. So too are the same skills and exacting engineering standards that have made Endecotts the finest test sieves in the world.

AVOIDING BLOCKED APERTURES
A feature of the sieving action is the rapid vertical movement imparted by the shaker. The movement is continuously helping to clear apertures and avoid them blinding.

EXTENSIVE CONTROL
A number of Endecotts shakers are fitted with a high degree of control over all shaker functions - a feature is extremely useful for many materials and in many industries.

UNIQUE CLAMPING
Endecotts shakers are fitted with a unique clamping device enabling the clamp plate to be fitted in seconds. It also ensures the clamp plate secures the sieves with consistent pressure to provide consistent results and longer sieve life.

ANTI-VIBRATION FEET
maintain optimum performance and avoid shaker 'walking'.

QAQC LAB
www.qclabequipment.com

Octagon D200 DIGITAL

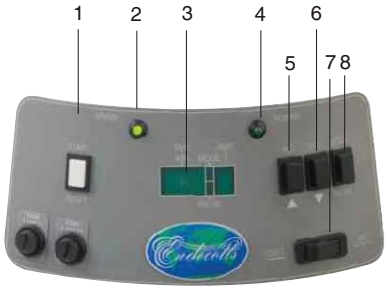
The high performance digital shaker

For 200 mm & 8 in diameter sieves

- Total operator control
- Easily set to maximum efficiency
- Non blinding sieving action
- Compact
- Portable
- No mechanical moving parts
- Precise sieve clamping
- Suitable for wet or dry sieving

THE Octagon D200 CONTROLS

1. Start/reset button
2. Mains light
3. Separate LEDs display: Setting and running times, time or amplitude setting mode, intermittent vibration setting mode and amplitude level.
4. Power light
5. Increment control
6. Decrement control
7. Continuous or intermittent vibration switch
8. Mode switch



Sieves supplied separately

Suitable for wet sieving

The Endecotts wet sieving conversion kit includes top clamping plate with a Perspex cover and spray rose, watertight seals and a stainless steel receiver with drainage spout.

D450 DIGITAL

Outstanding control on a heavy duty shaker

For 450 mm diameter sieves

- Total operator control
- Easily set to maximum efficiency
- Economical
- No mechanical moving parts
- Suitable for wet or dry sieving

Sieves supplied separately

The Octagon D200 is ideal for laboratory or on site use. It is robust, compact and sufficiently lightweight to be portable. A digital display makes the setting functions very straightforward. The Octagon is powered by an electromagnetic drive which has no rotating parts to wear making it maintenance free and extremely quiet in operation. The vibratory action produced by the power unit moves the sample over the sieve in a unique way producing faster more efficient sieving, while the rapid vertical movements also help to keep the apertures from blinding.

The Octagon's digital controller is used to set both the process time and the amplitude setting while a further control enables the vibration to run continuously or intermittently. Intermittent vibration improves performance and helps to clear apertures that may have become blocked. The controller will also set the duration of the 'on' and 'off' times of the vibration. The Octagon D200 Digital offers total flexibility enabling optimum settings to be established for virtually any material under test.The shaker is fitted with a new and totally unique clamping device which ensures sieves are held firmly without overtightening and allows them to be quickly removed and replaced. Non-metallic springs and anti-vibration mountings are fitted to isolate vibrations from work surfaces and reduce noise levels.

SPECIFICATIONS

Height excluding rods: 210 mm
Diameter: 410 mm (Handles: 2 x 35 mm)
Unpacked Weight: 43kg
Packed Weight: 55kg
Power Supply: 230V 50Hz 300VA
115V 60Hz 300VA
Other voltages on request.

Accommodates up to 8 full height and 18 half height 200 mm / 8" diameter sieves plus lid and receiver.

By utilising the same dynamic control panel as the D200 the D450 offers outstanding control features. The complete vibration system has been built to handle the sample weights involved with 450 mm sieves eliminating the problems involved with lighter weight machines. These two features combine to give an extremely high performance shaker in the 450 range.

SPECIFICATIONS

Height excluding rods: 280 mm
Diameter: 685 mm
Unpacked Weight: 140kg
Packed Weight: 170kg
Power Supply: 230V 50Hz 480VA
115V 60Hz 280VA
Other voltages on request.

Accommodates up to 7 sieves 450 mm by 10 mm high or 12 sieves 450 mm x 65 mm high plus lid and receiver.