

## What to look for in a good sieve shaker

The construction of the shaker is all too important, 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.

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 and accurate results.



The rapid vertical movement imparted by Endecotts Shakers continuously help to clear apertures and avoid samples from binding.

Other useful features that can increase performance and shorten sieving time are, amplitude vibration control, continuous or intermittent vibration control, timer control, correct and consistent clamping pressure, and anti-vibration feet.

Because of the low noise level, a separate room or sound enclosure is not necessary

Endecotts Sieve Shakers are designed and engineered to provide the optimum sieving action required for rapid and accurate results, without the noise or destructive impact on test sieves. This knowledge is built into every model.



Many of Endecotts Sieve Shakers are equipped with extensive control functions, that allow customization of the shaker movement, relative to the sample type.

**Adjustable amplitude** is often necessary to keep the sample close enough to the mesh for separation. Too high of a 'bounce' has adverse effects.

It also helps provide control over the agglomeration aspects of a sample. A sieve analysis test is sometimes conducted for the sole purpose of measuring the amount of existing agglomerates in a sample. Breaking up the agglomerates may be counter productive. Other times samples may agglomerate when the particles are excited incorrectly.

**Intermittant Vibration Control** allows a sample to settle, and then re-excite, allowing further control over difficult sample types. Digital programming makes repeatability a reality for creating methods or standards

For additional flexibility Coffee Laboratory offers the Endecotts Wet Sieving Kit, as well as the Coffee Laboratory Sonotrode Ring Attachment to allow for wet or dry separations below 20 microns, using precision electroformed sieves.



The Sonotrode is also used for ultrasonic sieve cleaning, which increases sieve life, and ensures accurate, non contaminated sieving.

# Octagon D200

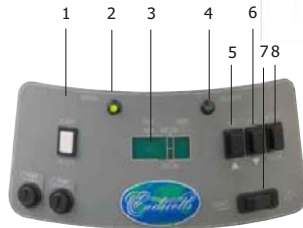
The high performance digital shaker **DIGITAL**

For 200 mm & 8 in diameter sieves

- Total operator control
- Easily set to maximum efficiency
- Non binding sieving action
- 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.

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.