

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.

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 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.



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

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.



EXTENSIVE CONTROL

A number of Endecotts shakers are fitted with a high degree of control over all shaker functions - a feature 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.

M100

Mini footprint - maxi performance

- Time & amplitude controls for optimum performance
- Quiet operation
- Compact
- Portable
- Maintenance free
- Easy to use
- Affordable

Suitable for 100 mm, 3" diameter sieves

Sieves supplied separately



Minor M200

The low cost solution to fast easy sieving

- Quiet operation
- Maintenance free
- Compact
- Portable
- Easy to use
- Affordable

Suitable for 200 mm, 8" or 100 mm diameter sieves

Sieves supplied separately



The low cost M100 is an excellent small laboratory shaker designed for 100 mm and 3" diameter sieves. It is robust, lightweight and provides the user with complete control over amplitude and vibration time.

Common with all Endecotts shakers the M100 imparts the optimum vibration movement to the sieves to ensure rapid and accurate results.

Fitted with an electromagnetic drive - the shaker is not only maintenance free but has no rotating parts to wear out. Another advantage of this type of drive is 'quiet operation'.

Simply load the sieve stack, clamp into place. Set the 0 to 60 minute timer or select 'I' for continuous sieving. Set the amplitude setting to the optimum level for the sample under test.

The M100 will accommodate up to three 100 mm, 3" or 4" diameter sieves plus a lid and receiver.

SPECIFICATIONS

Dimensions: 260 x 160 x 320 mm (D x W x H)
 Lightweight: Weighs only 10kg
 Timer: 0 to 60 min or continuous
 Power: 230V 50Hz 80VA
 115V 60Hz 60VA
 Other voltages on request
 Accommodates: Up to 3 full height 100 mm, 4" or 3" sieves

The Minor M200 has been designed and manufactured to combine low cost with the benefits of a well designed and engineered shaker incorporating many features usually found only on larger more expensive models.

It is ideal for the laboratory or plant since it is compact and genuinely portable (weighing only 17kg). There are no rotating parts in the Minor M200 consequently it is quiet in operation and maintenance free. The sieve stack is held firmly in position between the location and clamp plates by poly fibre straps these allow the whole unit to be packed away in a space less than 200 mm high.

Simply set the 0 to 60 minute timer for a timed operation or select "I" for continuous sieving.

The vibrating action imparts a precise movement to the sieve stack ensuring efficient sieving and excellent repeatability.

The Minor M200 is fitted with anti-vibration feet to ensure good stability.

SPECIFICATIONS

Compact: Only 250 mm diameter footprint
 Height: 180 mm excl. sieve stack
 Lightweight: Weighs only 17kg
 Location for 100 mm sieves
 Timer: 0 to 60 min or continuous
 Power: 230V 50Hz 80VA
 115V 60Hz 60VA
 Other voltages on request
 Accommodates: Up to 8 full height 200 mm (8") sieves

Octagon D200 *DIGITAL*

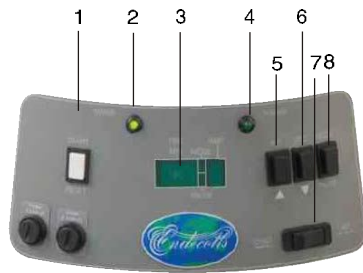
The high performance digital shaker

For 200 mm & 8 in diameter sieves

- Easily set to maximum efficiency
- Total operator control
- Non blinding '3D' 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 larger diameter sieves

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



Sieves supplied separately

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 larger diameter sieves eliminating the problems involved with lighter weight machines. These two features combine to give an extremely high performance shaker in the 450 range.

The Octagon D200 Digital 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 D200 Digital 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.

SPECIFICATIONS

Height excluding rods: 280 mm
 Diameter: 685 mm
 Unpacked Weight: 140kg
 Packed Weight: 170kg
 Power Supply: 230V 50Hz 1280VA
 115V 60Hz 1600VA
 Other voltages on request.

Accommodates up to 11 x 250 mm diameter sieves, 9 x 300 mm, 9 x 315mm, 11 x 350 mm, 10 x 400 mm or 7 x 450 mm plus lid and receiver (or inch equivalent).
 Capacity increased with half height sieves.

HEAVY DUTY SHAKERS

EFL2000

The ideal heavy duty shaker

For sieves up to 315 mm & 12 in diameter sieves



Sieves supplied separately

- Simple to operate
- Quick release clamps ensure consistent clamping pressure
- Low noise level
- Accommodates sieves from 200 mm to 315 mm diameter
- Fitted with anti-vibration feet
- 5 - 60 minute timer or continuous setting
- Suitable for wet or dry sieving

Powermatic

Specially designed for large sieves

For 300, 315, 350, 400 & 450 mm, 12 in & 18 in diameter sieves



Sieves supplied separately

- Simple to operate
- Quick release clamps ensure consistent clamping pressure
- Low noise level
- Accommodates sieves from 300 mm to 450 mm diameter
- Fitted with anti-vibration feet
- 5 - 60 minute timer or continuous setting

The EFL has been specially designed to operate with heavy samples without the loss of performance. It is equipped with a dynamic power source that ensures the right vibration is imparted to the sample for fast, accurate and reproducible tests. The vertical movement is fixed ensuring the sample spends maximum time seeking apertures rather than being suspended in mid air. The unique vibratory action also helps keep the apertures clear and free from blinding. A special clamping device ensures sieves are held firmly without over-tightening and allows them to be quickly removed and replaced. The timer can be pre-set for any duration up to 60 minutes or continuous. The EFL has non-corrodible, non-metallic springs.

SPECIFICATIONS

Diameter: 510 mm (Handles 2 x 35 mm)
Unpacked Weight: 83kg
Packed Weight: 100kg
Power Supply: 230V 50Hz 485VA
115V 60Hz 390VA
Other voltages on request

Model EFL2000

Accommodates up to 12 full height, 24 half height sieves of 200 mm/8 in; 7 full height sieves of 250 mm or 6 full height or 12 half height sieves of 315 mm. Includes lid and receiver.

Specially designed to handle sieves 450 mm/18" diameter. The Powermatic is driven by two powerful offset motors transmitting exactly the right vibration and movement to the sieves for optimum performance. Designed for use with 300 mm, 315 mm, 350 mm, 400 mm, 450 mm, 12" and 18" diameter sieves with short or long clamp rods.

SPECIFICATIONS

Height excluding rods: 385 mm
Width: 580 mm
Depth: 580 mm
Unpacked Weight: 91.5kg
Packed Weight: 121 kg
Power Supply: 230V 50Hz 480VA
115V 60Hz 280VA
Other voltages on request

Accommodates up to 9 x 350 mm diameter sieves, 8 x 400 mm, 6 x 450 mm plus lid and receiver (or inch equivalent). Capacity increased using half height sieves.