



PRODUCT INFORMATION

Precision Test Sieves | Sieve Shakers

WHEN PARTICLE SIZE MATTERS



Whether you are looking for test sieves, sieve shakers or related accessories, ENDECOTTS offer the world's finest particle analysis equipment designed and produced in Europe. Endecotts sieves not only look good, they offer unique qualities that make them extremely precise and accurate whilst offering excellent handling, nesting and strength.

No matter whether it is a standard test sieve or a sieve engineered for a particular application, e.g. diamonds, you will find the same meticulous quality in design and manufacture. Endecotts sieves are supplied in a complete range of aperture sizes, diameter sizes and depths and all our sieves come with a full calibration certificate as standard to meet virtually every requirement

Endecotts test sieves are designed and manufactured to offer qualities that make them extremely precise and accurate whilst offering good handling, nesting and strength.

Whether it's for industries such as diamond, coffee or agriculture you'll find the same meticulous quality in design and manufacture.

Endecotts offers a wide range of sieves with different sizes, depths, choice of materials and certified degrees of inspection to meet every National and International standard and virtually every specification, including ISO 3310 and ASTM E-11.

ISO CERTIFICATE 9001 :2015

Endecotts

ISO 9001:2008 is the International Standard for
Quality Management Systems (QMS).

It provides a set of principles that ensure a
common-sense approach to the
management of our business activities to
consistently achieve customer satisfaction.



Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO 9001:2015

This is to certify that:

Endecotts Limited
Parsons Lane
Hope
Hope Valley
S33 6RB
United Kingdom

Holds Certificate Number:

FM 24761

and operates a Quality Management System which complies with the requirements of ISO 9001:2015 for the following scope:

Supply of high quality branded and unbranded laboratory test sieves certified as conforming to national and international standards. Re-inspection and certification of previously supplied sieves.

For and on behalf of BSI:


Matt Page, Managing Director Assurance - UK & Ireland

Original Registration Date: 1993-06-28

Latest Revision Date: 2024-06-18

Effective Date: 2024-07-10

Expiry Date: 2027-07-09

Page: 1 of 1



...making excellence a habit.™

WHY ARE ENDECOTTS TEST SIEVES THE BEST?



Endecotts woven wire mesh sieves are the most widely used test sieves for all types of laboratory sampling and particle size analysis.

They are made with only the highest quality materials and are available in diameter sizes of 100, 200, 300, 400 or 450 mm as well as in 8 or 12 inches.

Woven wire mesh sieves can be supplied with aperture sizes ranging from 125 mm down to 20 microns in full and half height versions. International Test Sieve Series (ISO) American Standard Test Sieve Series (ASTM)



WHEN PARTICLE SIZE MATTERS



Years of experience in the manufacture of high-quality test sieves lead to our unparalleled knowledge of particle sizing technologies and processes.

This has enabled Endecotts to develop a wide range of shakers for optimum sieving action as well as fast and reproducible results.

Endecotts shakers are suitable for all applications and comply with national and international standards.

In addition, Endecotts provides sample dividers, consistometers and an ultra sonic cleaner.

You can be sure of Endecotts quality - it's guaranteed.

OUR PRECISION TEST SIEVES: DIFFERENT DESIGNS, SAME QUALITY

Endecotts

Our precision test sieves:

At Endecotts we know how important reproducibility is for making sieves, so you know with confidence each sieve will perform the same, as it is made to same high standards.

We have moved our 200 mm / 8" Stainless Steel sieves to automated production, allowing us to concentrate on manufacturing all other sizes.

Expect the same superior quality our team has been producing for years!

The change to automation means we can plan our stock holding and ensure a larger number of our sieves are available off the shelf for despatch straight away. Meaning faster despatch where it's needed!

What isn't changing is our commitment to quality: the combination of our first class sieve shakers and high precision test sieves ensures reproducible results - always.

****Excellent product quality**

due to extensive optical inspection guarantees standard compliance. Each sieve supplied with calibration certificate, with full test data available upon request

****Easy handling & stacking**

due to curved rim.

****Precise apertures**

and evenly tensioned mesh in accordance with standards and norms

****Sturdy sieve frame**

of high alloy stainless steel ensures high degree of corrosion resistance and easy cleaning



Endecotts
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WOVEN WIRES SERIES

2.1 Woven Wires Series

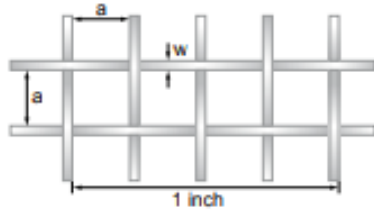


Figure 1: dimensions of wire cloth

The two fundamental dimensions of the wire cloth in a test sieve are the thickness (diameter) (w) and spacing (a) of the wires. These factors govern the open area and the aperture width. The former quantity determines the capacity of the sieve, or the rate of sieving, while the latter gives the measure of the particle size.

Woven wire cloth is frequently designated by a mesh number (M) defined as the number of wires per inch (25.4 mm), which is the same thing as the number of square apertures per inch (see Figure 1).

Mesh number:
$$M = \frac{1}{a + w}$$

Aperture width:
$$a = \frac{1}{M - w}$$

Open area:
$$A = \frac{a^2}{(a + w)^2} = \frac{1}{M^2}$$

The aperture width (a), wire diameter (w), mesh number (M), and open area (A), are inter-related by the following equations:

An example of the use of these equations may be given by the following simple calculations based on a 100 mesh wire cloth with 0.1 mm diameter wires.

$$A = (3.94 \times 0.15)^2 = 0.35 \text{ or } 35\%$$

$$\begin{aligned} 100 \text{ mesh} &= 100 \text{ apertures per inch (25.4 mm)} \\ &= 3.94 \text{ apertures per mm} \end{aligned}$$

ALL ENDECOTTS TEST SIEVES ARE FULLY CERTIFIED AND ARE SUPPLIED WITH A CERTIFICATE OF CONFORMITY



Endecotts made the decision to supply all Sieves with a Calibration Certificate as standard – something that often comes as an added cost elsewhere.

This ensures compliance and full traceability right from the start and having a certificate included offers you added benefits to, namely

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CALIBRATION CERTIFICATE

Inspection Certificate according to EN 10204 3.1 (Calibration Certificate)

Test Sieve	
Serial no.	25208674
Inspection date	2025-04-28
Standard	ISO 3310-1:2016
Nominal aperture size (w)	1000 µm
Diameter	200 mm
Height	25 mm

Maximum permissible errors	
Minimum number of apertures to be measured	80
Minimum average aperture size (w-Y)	970.0 µm
Maximum average aperture size (w+Y)	1,030.0 µm
Maximum aperture size (w+X)	1,127.5 µm
Maximum standard deviation (s)	49.0 µm
Minimum average wire diameter (d _{min})	480.0 µm
Maximum average wire diameter (d _{max})	640.0 µm

Measurements	Warp		Weft	
	Measurement	Result	Measurement	Result
Measuring equipment:	21-00085			
Calibration date:	2024-06-04			
Number of measured apertures	80	OK	80	OK
Number of measured wires	80	OK	80	OK
Average aperture size (w _{avg})	1,001.0 µm	OK	1,017.5 µm	OK
Maximum aperture size (w _{max})	1,018.1 µm	OK	1,033.8 µm	OK
Standard deviation (s)	11.6 µm	OK	11.4 µm	OK
Average wire diameter (d _{avg})	484.0 µm	OK	501.4 µm	OK

Warp

Weft

Visual inspection	
Result	OK
Comments	none

Result	Legend
This sieve is compliant with standard ISO 3310-1:2016.	OK = compliant NOK = noncompliant

The factory-authorised inspector

This certificate has been automatically generated and is valid without signature. The measuring results are traceable to national and international standards.

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Date 2025-04-28

Test Sieve	
Serial no.	25208674
Standard	ISO 3310-1:2016
Certificate	Calibration certificate
Nominal aperture size (w)	1000 µm
Diameter	200 mm
Height	25 mm

Test Sieve Record Card											
Test date	Visual inspection	Min. number of apertures		Average aperture size		Maximum aperture size		Standard deviation		Average wire diameter	
		Warp	Weft	Warp	Weft	Warp	Weft	Warp	Weft	Warp	Weft
2025-04-28	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

Result	Legend
This sieve is compliant with standard ISO 3310-1:2016.	OK = compliant NOK = noncompliant

The factory-authorised inspector

Date 2025-04-28

This certificate has been automatically generated and is valid without signature. The measuring results are traceable to national standards.

CERTIFICATE OF CONFORMITY



Easy to sell: Calibration certificates included as standard make the sieves an attractive, ready-to-go solution for regulated customers.

Adds instant value: Helps justify a higher price point and healthier margins. or a 2nd brand Premium Sieve Range

Targets key industries: Ideal for pharma, food, construction & mining where certified equipment is often mandatory.

Reduces admin & questions: No need to arrange separate certification — fewer queries and simpler order processing.

Protects reputation: Ensures customers meet audit requirements, reflecting well on the reseller as a quality supplier.

Strengthens repeat business: Customers who trust the quality and compliance are more likely to return for future orders.

Differentiates from cheaper alternatives: Competes strongly against uncertified or basic sieves offered by low-cost suppliers.

Saves time: your staff can focus on selling, not chasing up calibration paperwork or special requests.

Major Industries using Test Sieves

Industry	Application
Construction	Quality control analysis and grading of soils, aggregate, minerals, cement, etc.
General Laboratories	Miscellaneous application of particle analysis and determination of particle size, powder process industries, etc.
Chemical and Pharmaceutical	Oil exploration (analysis of minute fossils), fuels, explosives, drugs, medical & pharmaceutical applications (powders etc.)
Mining	Quarries (gravel and sand), coal mines (air pollution control), grading and particle size determination. Diamond mines, grading of diamonds and industrial diamonds.
Agriculture/Food	Confectionery and food manufacture, miscellaneous applications including kernels, etc.
Education	Schools, universities (training of techniques in particle size analysis and determination of particle size), geological etc.
Research	Research establishments engaged in original and general research. Various applications.
Engineering	Steel manufacturing organisations, foundries, iron works, etc. (determination of particle size of sand moulds, grading of coke, etc.)
Abrasive Grain Industries	Producers of precision materials for abrasive applications, i.e. grinding wheels and sandpaper.

Endecotts Standard Woven Wire Mesh Sieves are available in these sizes

International Test Sieve Series

ISO 3310-1

Nominal Aperture Sizes



125.00 mm	26.50 mm	5.60 mm	1.18 mm	250 µm	53 µm
112.00 mm	25.00 mm	5.00 mm	1.12 mm	224 µm	50 µm
106.00 mm	22.40 mm	4.75 mm	1.00 mm	212 µm	45 µm
100.00 mm	20.00 mm	4.50 mm	900 µm	200 µm	40 µm
90.00 mm	19.00 mm	4.00 mm	850 µm	180 µm	38 µm
80.00 mm	18.00 mm	3.55 mm	800 µm	160 µm	36 µm
75.00 mm	16.00 mm	3.35 mm	710 µm	150 µm	32 µm
71.00 mm	14.00 mm	3.15 mm	630 µm	140 µm	25 µm
63.00 mm	13.20 mm	2.80 mm	600 µm	125 µm	20 µm
56.00 mm	12.50 mm	2.50 mm	560 µm	112 µm	
53.00 mm	11.20 mm	2.36 mm	500 µm	106 µm	
50.00 mm	10.00 mm	2.24 mm	450 µm	100 µm	
45.00 mm	9.50 mm	2.00 mm	425 µm	90 µm	
40.00 mm	9.00 mm	1.80 mm	400 µm	80 µm	
37.50 mm	8.00 mm	1.70 mm	355 µm	75 µm	
35.50 mm	7.10 mm	1.60 mm	315 µm	71 µm	
31.50 mm	6.70 mm	1.40 mm	300 µm	63 µm	
28.00 mm	6.30 mm	1.25 mm	280 µm	56 µm	

American Standard Sieve Series

ASTM E11

Sieve Designation



Standard	Altern.	Standard	Altern.	Standard	Altern.
125.00 mm	5.00	9.50 mm	3/8	425 µm	No.40
106.00 mm	4.24	8.00 mm	5/16	355 µm	No.45
100.00 mm	4	6.70 mm	0.265	300 µm	No.50
90.00 mm	3 ½	6.30 mm	¼	250 µm	No.60
75.00 mm	3	5.60 mm	No. 3 ½	212 µm	No.70
63.00 mm	2 ½	4.75 mm	No. 4	180 µm	No.80
53.00 mm	2.12	4.00 mm	No. 5	150 µm	No.100
50.00 mm	2	3.35 mm	No. 6	125 µm	No.120
45.00 mm	1 ¾	2.80 mm	No. 7	106 µm	No.140
37.50 mm	1 ½	2.36 mm	No. 8	90 µm	No.170
31.50 mm	1 ¼	2.00 mm	No.10	75 µm	No.200
26.50 mm	1.06	1.70 mm	No.12	63 µm	No.230
25.00 mm	1	1.40 mm	No.14	53 µm	No.270
22.40 mm	7/8	1.18 mm	No.16	45 µm	No.325
19.00 mm	¾	1.00 mm	No.18	38 µm	No.400
16.00 mm	5/8	850 µm	No.20	32 µm	No. 450
13.20 mm	0.530	710 µm	No.25	25 µm	No. 500
12.50 mm	½	600 µm	No.30	20 µm	No. 635
11.20 mm	7/16	500 µm	No.35		

ENDECOTTS' FINEST: WOVEN WIRE MESH SIEVES



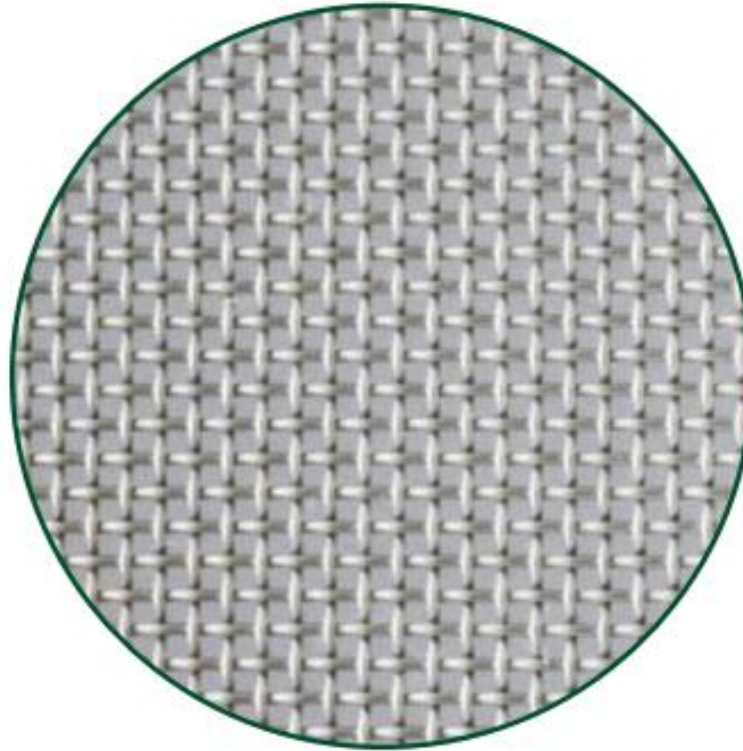
Endecotts' Finest: Woven Wire Mesh Sieves

Endecotts woven wire mesh sieves are the most widely used test sieves for all types of laboratory sampling and particle size analysis. They are made with only the highest quality materials and are available in diameter sizes of 100, 200, 300, 400 and 450 mm or in 8 or 12 inches.

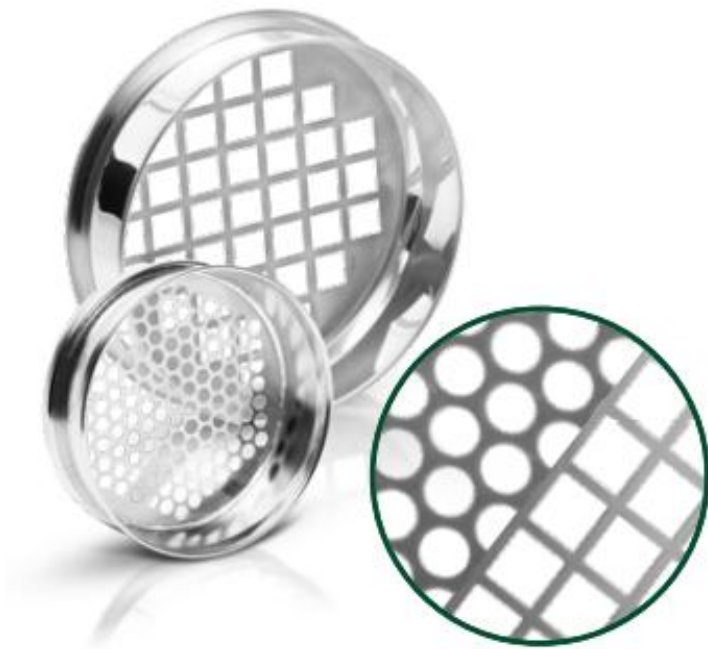
They can be supplied with aperture sizes ranging from 125 mm down to 20 microns in full or half height versions. Woven wire mesh sieves are available in stainless steel frames.

Advantages

- Precision frame (ensures consistent nestability)
- Precise aperture (in accordance with ISO 3310, ASTM E11 or other specifications)
- Made to International Standards
- Natural fillet (free flowing of sample)
- Totally sealed (no crevice to lose material)
- Evenly tensioned mesh ensures accurate analysis
- Safe edge (big radius makes it comfortable to handle)
- Serial number (ensures full traceability)



Perforated Plate Sieves



Endecotts supply a wide range of perforated plate sieves for the many industries that require them. These are available in diameter sizes of 200, 300, 400 and 450 mm. Aperture sizes range from 125 mm to 4 mm in square hole and 125 mm to 1 mm in round hole. Perforated plate sieves frames are supplied in stainless steel. They are manufactured to the highest engineering standards to ensure quality and accuracy.

Perforated plate sieves are available to every national and international standard.

Perforated Plate Series ISO 3310-2

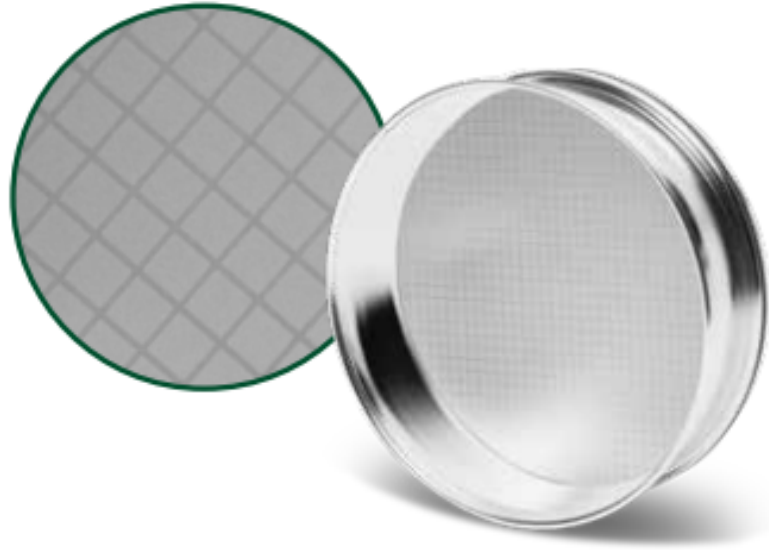
Nominal Aperture Sizes Round & Square Holes [mm]

125.00	71.00	37.50	20.00	11.20	6.30
112.00	63.00	35.50	19.00	10.00	5.60
106.00	56.00	31.50	18.00	9.50	5.00
100.00	53.00	28.00	16.00	9.00	4.75
90.00	50.00	26.50	14.00	8.00	4.50
80.00	45.00	25.00	13.20	7.10	4.00
75.00	40.00	22.40	12.50	6.70	

Nominal Aperture Sizes Round Hole Only [mm]

3.55	2.80	2.24	1.70	1.25	1.00
3.35	2.50	2.00	1.60	1.18	
3.15	2.36	1.80	1.40	1.12	

Microplate Sieves



For very fine particle analysis Endecotts produce a range of microplate sieves made from electro-formed nickel plate in stainless steel frames of 100 mm or 200 mm diameter. Available with unique self clearing apertures sizes from 75 to 5 microns. Microplate sieves are supplied with either square (standard) or round (on request) holes.

Other aperture sizes, sieve diameters and sieve depths can be supplied as required. It is recommended that microplate sieves are used in conjunction with a liquid medium to assist the passage of extremely fine particles through the apertures. In certain cases where this is not possible it is often found that a compatible shaker can speed up the analysis, while maintaining a high degree of accuracy.

Endecotts standard lids & receivers can be used with the microplate sieves.

Microplate Sieves ISO 3310-3			
Nominal Aperture Sizes [µm]			
200	100	50	20
180	90	45	16
160	80	40	10
140	71	36	5
125	63	32	
112	56	25	

Diamond Sieves

Endecotts Diamond Sieves are high precision measuring instruments specially manufactured to meet the strict requirements of the diamond industry. They are produced from stainless steel and offer a rapid and extremely accurate method of sizing.

Diamond sieves are available in stainless steel bodies of 8" in full height. These can be nested for ease of use.

Fixed plates are available in a range of aperture sizes.



**Diamond Sieves
(8" x 2")**

Plate Size	Hole Diameter [mm]	Plate Size	Hole Diameter [mm]
1	1.092	11	3.454
2	1.321	12	4.089
3	1.473	13	4.521
4	1.753	14	4.750
5	1.829	15	5.410
6	2.159	17	5.740
7	2.464	19	6.350
8	2.515	21	7.925
9	2.845	23	10.312
10	3.277		

Half Height Sieves

Where smaller quantities of sample are being analysed half height sieves are often used. These are available in diameters of 200 or 300 mm and 8" or 12" with the complete range of woven wire mesh or perforated plate sieving media. Other height options are also available.



Extra Deep and Wet Washing Sieves

Extensively used by the construction and cement industries. We now have Spacer Rings available in all sieve diameters that can transform any sieve into an extra deep sieve.

Note: 200 mm / 8" stainless steel use spacer rings as per image.



Extra Deep Step I (Sieve)

ASTM & ISO: Aperture sizes: 125 mm - 20 mm

diameter x depth

8" x 2"

100 mm x 40 mm

200 mm x 50 mm

300 mm x 75 mm

400 mm x 65 mm

450 mm x 100 mm

Extra Deep Step II (Spacer Ring)

diameter x depth

8" x 2"

100 mm x 40 mm

200 mm x 50 mm

300 mm x 75 mm

400 mm x 65 mm

450 mm x 100 mm

Lids & Receivers

Lids, receiving pans and intermediate receiving pans are made of stainless steel with the following diameters: 100, 200, 300, 400 and 450 mm as well as 8 or 12 inches. Half height receivers are also available.



SIEVE SHAKERS

Endecotts



WHAT TO LOOK FOR IN A GOOD SIEVE SHAKER



One of the most important characteristics of a good sieve shaker is to deliver reliable and reproducible sieving results at any time. Furthermore, it should reach an ultimate end point in the shortest sieving time possible in order to save valuable working hours.

In order to provide a long, trouble free life the construction of a sieve shaker is very important. An electromagnetic drive, for example, 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 control, continuous or intermittent vibration control, timer, correct and consistent clamping pressure, anti-vibration feet and low noise level. Endecotts sieve shakers are therefore designed and engineered around the key features listed above, ensuring that the design performance provides the optimum sieving action to the sieves to give rapid accurate results.

Endecotts understand how sieves and shakers interrelate. This knowledge is intrinsic in every model

OUR RANGE OF SIEVING MACHINES

Endecotts

Endecotts supply a range of excellent laboratory test sieving machines to suit the everyday needs. While the Octagon 200, Octagon 200CL, Minor 200 and the Air Sizer 200 have been especially designed to accommodate the exacting requirements of the modern laboratory, the EFL 300 and the Titan 450 are our experts for heavy duty sieving tasks. Ergonomically designed and with a fresh look, Endecotts sieving machines are ideal for your busy laboratory.



	Laboratory				Heavy Duty	
	Air Sizer 200	Minor 200	Octagon 200	Octagon 200CL	EFL 300	Titan 450
Range:	20 μ m to 4 mm	20 μ m to 125 mm	20 μ m to 125 mm	20 μ m to 125 mm	20 μ m to 40 mm	20 μ m to 125 mm
Drive / sieving motion:	dispersion by air jet	electromagnetic	electromagnetic 3D	electromagnetic 3D	electromagnetic 3D	electromagnetic 3D
Amplitude / Speed:	5 - 55 rpm (nozzle speed)	~ 1.6 mm (depending on loading), fixed	0 - 3 mm, digital setting in 10 steps	0 - 3 mm, digital setting in 0.1 mm steps, "Closed Loop" amplitude control	0 - 2 mm, digital setting in 10 steps	0 - 2 mm, digital setting in 10 steps
Sieve diameter:	200 mm / 8" standard sieves	100 mm / 200 mm, 3" / 8"	100 mm / 200 mm, 3" / 8"	100 mm / 200 mm, 3" / 8"	150 / 200 / 203 / 250 / 300 / 315 mm, 8" / 12"	250 / 300 / 315 / 350 / 400 / 450 mm, 12" / 18"

'BEST FOR' AND 'CASE EXAMPLES'



Minor 200

Best For:

- Occasional sieving
- Small sample volumes
- Educational and light industrial use
- Laboratories with limited space or budget

Example:

A school or small lab testing dry powders infrequently.

Octagon 200

Best For:

- Medium to high usage labs
- Routine quality control applications
- Users requiring better control and repeatability over Minor 200

Example:

A food or construction materials lab needing regular dry particle size testing with adjustable settings for different samples

Octagon 200 CL

Best For:

- Laboratories requiring high precision and repeatability
- Consistent results across multiple test locations or shifts
- Environments where mains voltage can vary

Example:

Pharmaceutical or mining labs performing multiple daily tests often on different sites where result consistency is critical and traceability is important.

Air Sizer 200

Best For:

- Ultra-fine powders that tend to clump, agglomerate, or blind traditional mesh.
- Industries like pharmaceuticals, chemicals, cement, and powder coatings.

Example:

A Pharmaceutical QA lab checks active ingredient powders to ensure particles are under 75 µm. The Air Sizer 200 quickly separates fines and ensures repeatable results without the mesh clogging.

EFL 300

Best For:

- Larger volume or bulk samples requiring wet or dry sieving.
- Applications where gentle but effective screening is needed, in industries like aggregates, minerals, and soils.

Example:

Construction materials lab testing sand & gravel gradations for compliance to Standards. Perfect for running large batches of aggregate, ensuring uniform particle size distribution.

Titan 450

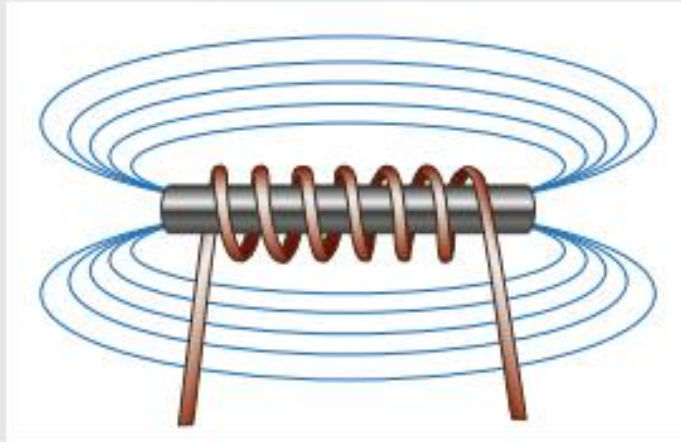
Best for:

- Large, heavy samples or materials with large particle sizes (up to 125 mm apertures).
- Heavy-duty environments like mining, quarrying, or steel production.

Example:

A mining company's processing plant uses the Titan 450 to check the particle size of crushed ore before it goes to milling. It handles large quantities of coarse material easily.

Electromagnetic Drive



An electromagnetic drive produces an ideal throwing motion that disperses material equally over the whole sieving surface. Furthermore it is virtually maintenance-free and extremely quiet in operation.

3D Performance



Vertical vibration is generated by the on/off frequency of the electromagnetic drive. However, vertical vibration is not enough to impart the correct movement for sieving. The shaker also 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

Wet Sieving Conversion Kits



A wet sieving kit includes a top clamping plate with a Perspex cover and spray rose, watertight O-ring seals and a stainless steel receiver with drainage spout. O-ring seals may also be ordered separately.

Available for: Octagon 200, Octagon 200CL, EFL 300, Titan 450.

FEATURES

Endecotts

Anti-Vibration Feet



Anti-Vibration Feet maintain optimum performance and avoid shaker 'walking'.

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.

Extensive Control



Most 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.

QUESTIONS



Please contact Sales@endecotts.com if you require

Individual Information on sieves, Shakers etc,

Price List or Catalogues

Marketing information

Prices

Merchandise

We look forward to working with you .