



СИТОВА МАШИНА AS 450 CONTROL

With the Vibratory Sieve Shaker AS 450 control RETSCH have designed their first 3-D shaker for 400 mm and 450 mm sieves. It can be used for dry and wet sieving of sample amounts of up to 25 kg. The AS 450 control combines the benefits of electromagnetic sieving – controlled amplitude with highest reproducibility – with the powerful drive based on CET technology (Continuous Energy Transfer).

Even with high loads a constant vibration height of 2.2 mm and, as a result, high separation efficiency are achieved thanks to the continuous controlled energy input. Manual re-sieving is no longer required. When it comes to operating comfort, the AS 450 control meets all the requirements of a modern laboratory. All parameters such as amplitude, time and interval are digitally set, displayed and controlled via a remote operation panel



ACCURACY & EFFICIENCY

- | Sieving with 3-D effect
- | High sieve loads (up to 25 kg)
- | Suitable for dry and wet sieving
- | Measuring range 25 µm to 125 mm
- | Sieve stack up to 963 mm, for sieves up to 450 mm Ø
- | Memory for 9 Standard Operating Procedures (SOPs)
- | With remote operation panel
- | Sieve acceleration independent of power frequency
- | Test materials monitoring according to DIN EN ISO 9001

СИТОВА МАШИНА AS 450 CONTROL

WET SIEVING WITH VIBRATORY SIEVE SHAKERS

There are many applications for which wet sieving is the best solution, e.g. when the material to be tested is a suspension or when a very fine sample (< 45 µm) that tends to agglomerate needs to be sieved. All vibratory sieve shakers from RETSCH can be used for wet sieving. There are special accessories like clamping lids with spray nozzle and collecting pans with outlet available. By placing RETSCH's venting rings between the sieves, air cushions can expand without letting liquid or sample material escape.



СИТОВА МАШИНА AS 450 CONTROL

АКСЕСОАРИ И ОПЦИИ

RETSCH's vibratory sieve shakers are ideally suited for separation, fractioning and particle size determination of cement clinker, chemicals, coal, coke, construction materials, fillers, minerals, ores, plastics, sand and soils.



Затягащи устройства

Със затягащите устройства RETSCH ситата се захващат безопасно, бързо и удобно на сито. Затягащите устройства „комфорт“ са особено лесни за ползване и спестяват време.

Акcesoари за сита

Съдове за събиране, междинни тигани, междинни пръстени и капаци на ситото

Акcesoари за мокро сеене

Затягащ капак с дюза, събирателни съдове с изход, обезвъздушаваци пръстени.

IQ/OQ Documents

We provide IQ/OQ documentation for the „control“ sieve shakers to support IQ/OQ certification by our customers.

Делители на проби

Значими резултати могат да бъдат получени само ако пробата представлява оригиналния материал. Разделителите на проби произвеждат представителни частични проби, като по този начин осигуряват възпроизводимостта на анализа.

Ultrasonic baths and dryers

Suitable for thorough cleaning of test sieves and for quick, gentle drying of samples and sieves.

Пресяващи помощни средства

Верижни пръстени, четки, кубчета, топки (например за намаляване на агломерациите при пресяване на частици <100 µm и поддържане на мрежата свободна).

RETSCH TEST SIEVES AND ACCESSORIES - ENGINEERED FOR SUPERIOR PERFORMANCE

EASYSIEVE / EASYSIEVE CFR СОФТУЕР ЗА ОЦЕНКА

EasySieve, the software for particle size analyses, exceeds manual evaluation in many aspects. The software is able to automatically control the necessary measurement and weighing procedures – from the registration of the weight of the sieve up to the evaluation of the data. It is simple and convenient to use and is also available in an FDA 21 CFR Part 11-conform version.



СИТОВА МАШИНА AS 450 CONTROL

ТИПИЧНИ МАТЕРИАЛИ ЗА ПРОБА

RETSCH's vibratory sieve shakers are ideally suited for separation, fractioning and particle size determination of cement clinker, chemicals, coal, coke, construction materials, fillers, minerals, ores, plastics, sand and soils.



торове



почва



зърнени храни

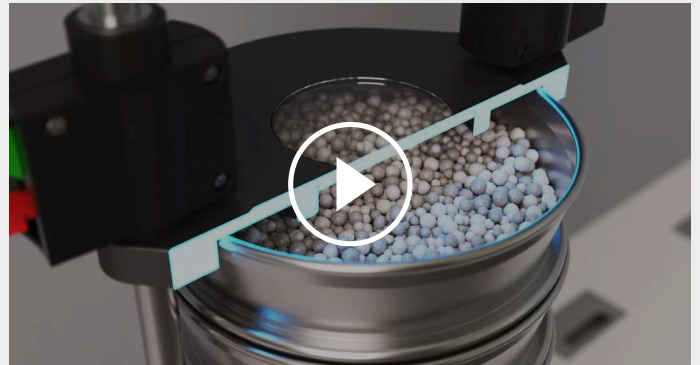


строителни материали

To find the best solution for your sample preparation task, visit our application database.

ПРИНЦИП НА РАБОТА

Задвижването на AS 450 control се базира на патентованата от RETSCH Continuous Energy Transformation Technology (CET Technology). Тя осигурява **значително по-голяма енергия** отколкото тази, използвана в конвенционалните пресевни машини. AS 450 control постига **най-висока амплитуда дори и при максимално натоварване**, което осигурява оптимална ефективност на разделяне и висока възпроизводимост. Моторът произвежда 3D подхвърлящо движение, което разпределя продукта равномерно по цялата повърхност на пресяване. Предимство: висок капацитет, изключително гладка работа, кратки времена за пресяване и висока ефективност на сепариране.



[Click to view video](#)

СИТОВА МАШИНА AS 450 CONTROL

TECHNICAL DATA

| | |
|--|---|
| Приложения | разделяне, фракциониране, определянето на размера на частиците |
| Област на приложение | Химия / пластмаси, геология / металургията, околна среда / рециклиране, строителни материали / електроника, стъкло / керамика |
| Материали | прахове, насипни материали, суспензии |
| Обхват на измерване* | 25 микрона - 125 мм |
| Пресяващо движение | подхвърлящо движение под ъгъл - 3D движение |
| Макс. капацитет | 25 кг |
| Макс. брой на фракциите | 13 / 9 (min. 3)* |
| Макс. тегло на стека сита | 50 кг |
| Изобразяване на амплитуда | дигитално, 0.2 - > 2.2 мм |
| Ускорение | 1 -> 7.1 g |
| Дисплей за времето на пресяване | дигитално, 1 - 99 мин. |
| прекъсната работа | 10 - 99 сек |
| Запаметяване на настройки | 9 |
| Подходящ за сухо пресяване | да |
| Подходящ за мокро пресяване | да |
| Връзка с компютър | да |
| Диаметри на ситата | 400 мм / 450 мм |
| Макс. височина на стека сита | 963 мм |
| Захващащи устройства | standard, "comfort", each for wet and dry sieving |
| Данни за електрозахранването | различни напрежения |
| Захранване | еднофазово |
| Ш x В x Д | 705 x 440 x 635 mm |
| Нетно тегло | ~ 220 kg |
| Стандарти | CE |

*depending on sieve height and clamping unit

www.retsch.bg/as450control

ДАННИ ПОРЪЧКА

VIBRATORY SIEVE SHAKERS AS 450

Vibratory Sieve Shakers AS 450 for test sieves up to 450 mm / 18" Ø
(please order clamping device, test sieves and collecting pan separately)

30.026.0001



AS 450 control, 230 V, 50/60 Hz, incl. test report acc. to EN 10204 2.2

other electrical versions available for the same price

CLAMPING DEVICES AS 450

AS 450 CONTROL

32.662.0015



Clamping device "standard", for test sieves 400/450 mm Ø

32.662.0016



Clamping device "comfort", for test sieves 400/450 mm Ø

32.662.0017



Wet sieving clamping device "standard", for test sieves 400/450 mm Ø

32.662.0018



Wet sieving clamping device "comfort", for test sieves 400/450 mm Ø

SIEVE STACKS AS 450

60.166.000998

Sieve stack consisting of 10 test sieves (ISO 3310-1), 400 mm Ø, 65 mm height (63 µm, 125 µm, 250 µm, 500 µm, 1 mm, 2 mm, 4 mm, 8 mm, 16 mm, 31.5 mm) and collecting pan

60.168.000999

Sieve stack consisting of 7 test sieves (ISO 3310-1), 450 mm Ø, 100 mm height (63 µm, 125 µm, 250 µm, 500 µm, 1 mm, 2 mm, 4 mm) and collecting pan

60.167.000998

Sieve stack consisting of 10 test sieves (ASTM E11), 400 mm Ø, 65 mm height, (230 mesh, 120 mesh, 60 mesh, 35 mesh, 18 mesh, 10 mesh, 5 mesh, 5/16", 5/8", 1.1/4") and collecting pan

60.169.000999

Sieve stack consisting of 7 test sieves (ASTM E11), 450 mm Ø, 100 mm height (230 mesh, 120 mesh, 60 mesh, 35 mesh, 18 mesh, 10 mesh, 5 mesh) and collecting pan

ACCESSORIES AS 450 CONTROL

99.200.0030 IQ/OQ Documentation for AS 450 control

ACCESSORIES FOR CLAMPING DEVICES AS 450

CLAMPING ELEMENTS

32.737.0003 Quick-clamping elements, (2 pieces) for clamping device "comfort" AS 450 control


02.654.0011 Clamping elements, (2 pieces) for clamping device "standard" AS 450 control

02.654.0019 Clamping elements, (2 pieces) for clamping device "standard" AS 450 basic


ACCESSORIES FOR TEST SIEVES (PANS, RINGS, LIDS)

FOR TEST SIEVES 400 MM Ø

60.010.000400  Collecting pan, неръждаема стомана, 400 mm Ø, height 65 mm

60.220.000400  Intermediate pan, неръждаема стомана, 400 mm Ø, height 65 mm

60.935.000400  Intermediate ring, неръждаема стомана, 400 mm Ø, height 65 mm

60.107.000400  Sieve lid, неръждаема стомана, 400 mm Ø





69.440.0070  Collecting pan with outlet, неръждаема стомана, 400 mm Ø, height 70 mm

69.421.000400 Venting ring for wet sieving, неръждаема стомана, 400 mm Ø, height 65 mm

05.114.0048  O-ring for test sieves, 400 mm Ø

FOR TEST SIEVES 450 MM Ø

60.010.000450  Collecting pan, неръждаема стомана, 450 mm Ø, height 50 mm

| | | |
|---------------|---|---|
| 60.220.000450 |  | Intermediate pan, неръждаема стомана, 450 mm Ø, height 100 mm |
| 60.935.000450 |  | Intermediate ring, неръждаема стомана, 450 mm Ø, height 100 mm |
| 69.545.0050 |  | Sieve lid, неръждаема стомана, 450 mm Ø |
| 69.445.0084 | | Collecting pan with outlet, неръждаема стомана, 450 mm Ø, height 85 mm |
| 69.421.000450 | | Venting ring for wet sieving, неръждаема стомана, 450 mm Ø, height 100 mm |
| 05.114.0012 |  | O-ring for test sieves, 450 mm Ø |

TEST SIEVES Ø 450 MM - 100 MM HEIGHT - ISO 3310/1 - STAINLESS STEEL / WIRE GAUZE

| | # mm | # mesh no. | Ø | height | standard |
|---------------|--------|------------|--------|--------|------------|
| 60.168.000036 | 36 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.000038 | 38 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.000040 | 40 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.000045 | 45 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.000050 | 50 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.000053 | 53 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.000056 | 56 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.000063 | 63 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.000071 | 71 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.000075 | 75 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.000080 | 80 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.000090 | 90 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.000100 | 100 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.000106 | 106 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.000112 | 112 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.000125 | 125 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.000140 | 140 µm | - | 450 mm | 100 mm | ISO 3310/1 |

| | | | | | |
|---------------|---------|---|--------|--------|------------|
| 60.168.000150 | 150 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.000160 | 160 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.000180 | 180 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.000200 | 200 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.000212 | 212 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.000224 | 224 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.000250 | 250 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.000280 | 280 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.000300 | 300 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.000315 | 315 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.000355 | 355 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.000400 | 400 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.000425 | 425 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.000450 | 450 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.000500 | 500 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.000560 | 560 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.000600 | 600 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.000630 | 630 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.000710 | 710 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.000800 | 800 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.000850 | 850 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.000900 | 900 µm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.001000 | 1.00 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.001120 | 1.12 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.001180 | 1.18 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.001250 | 1.25 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.001400 | 1.40 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.001600 | 1.60 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.001700 | 1.70 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.001800 | 1.80 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.002000 | 2.00 mm | - | 450 mm | 100 mm | ISO 3310/1 |

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|---------------|----------|---|--------|--------|------------|
| 60.168.002240 | 2.24 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.002360 | 2.36 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.002500 | 2.50 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.002800 | 2.80 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.003150 | 3.15 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.003350 | 3.35 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.003550 | 3.55 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.004000 | 4.00 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.004500 | 4.50 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.004750 | 4.75 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.005000 | 5.00 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.005600 | 5.60 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.006300 | 6.30 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.006700 | 6.70 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.007100 | 7.10 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.008000 | 8.00 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.009000 | 9.00 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.009500 | 9.50 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.010000 | 10.00 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.011200 | 11.20 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.012500 | 12.50 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.013200 | 13.20 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.014000 | 14.00 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.016000 | 16.00 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.018000 | 18.00 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.019000 | 19.00 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.020000 | 20.00 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.022400 | 22.40 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.025000 | 25.00 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.026500 | 26.50 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.028000 | 28.00 mm | - | 450 mm | 100 mm | ISO 3310/1 |

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|---------------|-----------|---|--------|--------|------------|
| 60.168.031500 | 31.50 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.035500 | 35.50 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.037500 | 37.50 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.040000 | 40.00 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.045000 | 45.00 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.050000 | 50.00 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.053000 | 53.00 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.056000 | 56.00 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.063000 | 63.00 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.071000 | 71.00 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.075000 | 75.00 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.080000 | 80.00 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.090000 | 90.00 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.100000 | 100.00 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.106000 | 106.00 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.112000 | 112.00 mm | - | 450 mm | 100 mm | ISO 3310/1 |
| 60.168.125000 | 125.00 mm | - | 450 mm | 100 mm | ISO 3310/1 |