



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 ($< 45 \mu\text{m}$) 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.

Аксесоари за сита

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

Аксесоари за мокро сеене

Затягащ капак с дюза, събирателни съдове с изход, обезвъздушаващи 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.com/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
69.440.00070		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
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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

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

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