



## SIKTEMASKIN AS 400 CONTROL

**The RETSCH AS 400 control is used for sieving dry goods with test sieves up to 400 mm in diameter. The uniform, horizontal circular sieving motion produces a sharp separation of the sample fractions. Fine and coarse-grained goods from areas such as milling, brewing, chemical industry, quarries, soil testing, woodworking and plastics industry, can be exactly separated with the AS 400 control. This particular sieving motion is preferably used for long or fibrous, needle-shaped or flat materials due to their horizontal orientation. For the testing of plastics (grainy molding materials), the standard DIN 53 477 stipulates exactly this circular sieving motion.**

The AS 400 control can be used as test instrument for the quality control according to DIN EN ISO 9001. Due to the controlled drive which is independent of the power frequency the AS 400 control yields reproducible results worldwide. The speed and sieving time are set, displayed and monitored digitally. The instrument is supplied with a test certificate and can be recalibrated. If desired, the rotation direction can be set to alternate in the interval. A memory for 9 sieving programs facilitates routine analyses. The AS 400 control has an integrated interface for controlling all sieving parameters via the EasySieve® software.



## ACCURACY & EFFICIENCY

- | Circular sieving motion according to DIN 53477
- | For sieves up to (Ø) 400 mm
- | Measuring range 45 µm to 63 mm
- | Easy operation, ergonomic design
- | Free digital selection of process parameters (time, speed, interval)
- | Memory for 9 Standard Operating Procedures (SOPs)
- | Test materials monitoring according to DIN EN ISO 9001

SIKTEMASKIN AS 400 CONTROL

## ACCESSORIES & OPTIONS

The sieve shakers of the control series can be equipped with a variety of accessories to provide for a wealth of application requirements.



### | Clamping units

With the RETSCH clamping devices the sieves are clamped safely, quickly and conveniently on the sieve shaker. The clamping devices "comfort" are particularly user-friendly and timesaving.



### | Accessories for test sieves

Collecting pans, intermediate pans, intermediate rings and sieve lids.

### | Sieving Aids

Chain rings, brushes, cubes, balls (e.g. for reducing agglomerations when sieving particles < 100 µm and keeping the mesh free).



### | IQ/OQ Documents

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



### | Sample Dividers

Meaningful results can only be obtained if the sample represents the original material. Sample dividers produce representative part samples, thus ensuring reproducibility of the analysis.

### | Ultrasonic baths and dryers

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

**RETSCH TEST SIEVES AND ACCESSORIES - ENGINEERED FOR SUPERIOR PERFORMANCE**

## PROGRAMVARE FOR EVALUERING – EASY SIEVE

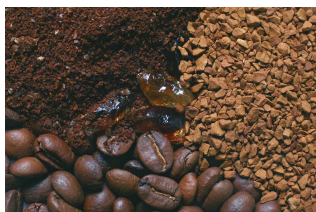
EasySieve, the software for particle size analyses, exceeds manual evaluation in many aspects. The software is able to automatically control the necessary measurement and weighing procedures – from the registration of the weight of the sieve up to the evaluation of the data. It is simple and convenient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



SIKTEMASKIN AS 400 CONTROL

## TYPICAL SAMPLE MATERIALS

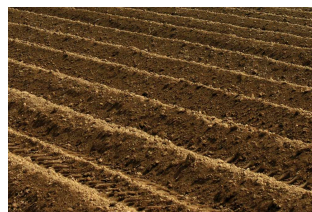
RETSCH's Analytical Sieve Shaker AS 400 control is ideally suited for separation, fractioning, particle size determination of construction materials, ground corn, plastics, sand, splints



*kaffe*



*wood chips*



*soil*



*kornprodukter*

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

## VIRKEMÅTE

Mottaksskiven til AS 400 foretar horisontale rotasjonsbevegelsert med 15 mm radius (i henhold til DIN 53 477) Turtallet fra 50 til 300 min-1 reguleres elektronisk. Det kan tilpasses alt siktemateriale trinnløst. Faktisk turtall vises digitalt. Mottaksskiven drives av en robust vedlikeholdsfri girmotor med 125 watt effekt. Kraftoverføringen skjer med en eksenter.



## SIKTEMASKIN AS 400 CONTROL

### TECHNICAL DATA

|                                            |                                                                                                                                                                                |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>funksjon</b>                            | separering, fraksjonering, bestemmelse av partikkelstørrelse                                                                                                                   |
| <b>bruksområde</b>                         | biologi, byggematerialer, geologi / metallurgi, glass / keramikk, kjemi / plast, landbruk, maskinbygging / elektroteknikk, matvarer, medisin / legemidler, miljø / gjenvinning |
| <b>matemateriale</b>                       | pulver, massegoods                                                                                                                                                             |
| <b>måleområde*</b>                         | 45 µm - 63 mm                                                                                                                                                                  |
| <b>bevegelse av siktematerialet</b>        | horisontalt kretsende bevegelse                                                                                                                                                |
| <b>maksimal ladning / siktemateriale</b>   | 5 kg                                                                                                                                                                           |
| <b>maksimalt antall fraksjoner</b>         | 7 / 9 / 17                                                                                                                                                                     |
| <b>maksimal vekt på siktematerialet</b>    | 15 kg                                                                                                                                                                          |
| <b>turtall</b>                             | digital, 50 - 300 min <sup>-1</sup>                                                                                                                                            |
| <b>tidsvisning</b>                         | digital, 1 - 99 min                                                                                                                                                            |
| <b>intervalldrift</b>                      | 1 - 10 min                                                                                                                                                                     |
| <b>SOPer som kan lagres</b>                | 9                                                                                                                                                                              |
| <b>egnet for tørrsikting</b>               | ja                                                                                                                                                                             |
| <b>egnet for våtsikting</b>                | -                                                                                                                                                                              |
| <b>serielt brukergrensesnitt</b>           | ja                                                                                                                                                                             |
| <b>med testsertifikat / kan kalibreres</b> | ja                                                                                                                                                                             |
| <b>egnete siktediametre</b>                | 100 mm / 200 mm / 203 mm (8") / 305 mm / 315 mm / 400 mm                                                                                                                       |
| <b>maksimal høyde på siktematerialet</b>   | 510 mm                                                                                                                                                                         |
| <b>Klemmeinnretninger</b>                  | standard, "comfort", each for dry sieving                                                                                                                                      |
| <b>kapslingstype</b>                       | IP 20                                                                                                                                                                          |
| <b>Elektriske tilkoblingsdata</b>          | 100-240 V, 50/60 Hz                                                                                                                                                            |
| <b>Nettilkobling</b>                       | 1-fase                                                                                                                                                                         |
| <b>b x h x d</b>                           | 540 x 260 x 507 mm                                                                                                                                                             |
| <b>nettovekt</b>                           | ~ 70 kg                                                                                                                                                                        |
| <b>Normer / standarder</b>                 | CE                                                                                                                                                                             |

\*avhengig av matemateriale og apparatkonfigurerings/apparatinnstillinger

**/as400control**



## BESTILLINGSINFO

### HORIZONTAL SIEVE SHAKER AS 400 CONTROL

**Horizontal Sieve Shaker AS 400 control for test sieves up to 400 mm Ø**  
(please order clamping device, test sieves and collecting pan separately)

30.022.0001  AS 400 100–240 V, 50/60 Hz incl. test report acc. to EN 10204 2.2 control

### CLAMPING DEVICES AS 400 CONTROL

32.662.0010  Clamping device "standard", for test sieves 400 mm Ø

32.662.0011  Clamping device "comfort", for test sieves 400 mm Ø

### SIEVE STACKS AND ACCESSORIES AS 400 CONTROL

60.166.000999 Sieve stack consisting of 6 test sieves (ISO 3310-1), 400 mm Ø, 65 mm height (500 µm, 1 mm, 2 mm, 5 mm, 10 mm, 20 mm) and collecting pan

60.167.000999 Sieve stack consisting of 6 test sieves (ASTM E11), 400 mm Ø, 65 mm height (35 mesh, 18 mesh, 10 mesh, 4 mesh, 3/8", 3/4") and collecting pan

### ACCESSORIES AS 400 CONTROL

03.802.0006  Transportation handles AS 400

99.200.0026 IQ/OQ Documentation for AS 400 control

### ACCESSORIES FOR CLAMPING DEVICES AS 200, AS 300, AS 400

#### CLAMPING LIDS

32.481.0022  Clamping lid with large window of Perspex for test sieves 200/203 mm Ø

02.660.0012  Clamping lid with large window of Perspex for test sieves 400 mm Ø

## CLAMPING ELEMENTS

|             |                                                                                   |                                                                                  |
|-------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| 32.142.0001 |  | Clamping nuts, (2 pieces) for clamping device "standard"                         |
| 32.737.0001 |  | Quick-clamping elements, (2 pieces) for clamping device "comfort" AS 200/300/400 |
| 05.114.0080 |                                                                                   | O-ring for quick-clamping element for AS 300 and AS 400, 1 piece                 |

## CLAMPING RODS

|             |                                                                                    |                                                                                                    |
|-------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| 32.248.0002 |   | Threaded rods, (2 pieces) for clamping device "standard"                                           |
| 32.248.0001 |   | Threaded rods, short, (2 pieces) for clamping of max. 5 test sieves for clamping device "standard" |
| 32.742.0010 |  | Rods, smooth, (2 pieces) for clamping device "comfort" AS 300/400                                  |

## SIEVING AIDS

|             |                                                                                     |                                                                              |
|-------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 32.365.0001 |  | Chain ring for test sieves 200 mm and 203 mm Ø to support horizontal sieving |
| 32.050.0001 |  | Brushes, 3 pieces                                                            |
| 32.902.0001 |  | Cubes of polyurethane, 12 x 12 x 12 mm, 10 pieces                            |
| 32.902.0002 |  | Cubes of polyurethane, 20 x 20 x 20 mm, 10 pieces                            |
| 32.354.0001 |  | Balls of rubber, 20 mm Ø, 5 pieces                                           |
| 32.354.0002 |  | Balls of agate, 10 mm Ø, 10 pieces                                           |
| 32.354.0004 |  | Balls of steatite, 6 mm Ø, 150 g                                             |



## ACCESSORIES FOR TEST SIEVES (PANS, RINGS, LIDS)

### FOR TEST SIEVES 400 MM Ø

|               |                                                                                   |                                                            |
|---------------|-----------------------------------------------------------------------------------|------------------------------------------------------------|
| 60.010.000400 |  | Collecting pan, stainless steel, 400 mm Ø, height 65 mm    |
| 60.220.000400 |  | Intermediate pan, stainless steel, 400 mm Ø, height 65 mm  |
| 60.935.000400 |  | Intermediate ring, stainless steel, 400 mm Ø, height 65 mm |
| 60.107.000400 |  | Sieve lid, stainless steel, 400 mm Ø                       |

## TEST SIEVES Ø 400 MM - 65 MM HEIGHT - ISO 3310/1 - STAINLESS STEEL / WIRE GAUZE

|               | # mm   | # mesh no. | Ø      | height | standard   |
|---------------|--------|------------|--------|--------|------------|
| 60.166.000025 | 25 µm  | -          | 400 mm | 65 mm  | ISO 3310/1 |
| 60.166.000032 | 32 µm  | -          | 400 mm | 65 mm  | ISO 3310/1 |
| 60.166.000036 | 36 µm  | -          | 400 mm | 65 mm  | ISO 3310/1 |
| 60.166.000038 | 38 µm  | -          | 400 mm | 65 mm  | ISO 3310/1 |
| 60.166.000040 | 40 µm  | -          | 400 mm | 65 mm  | ISO 3310/1 |
| 60.166.000045 | 45 µm  | -          | 400 mm | 65 mm  | ISO 3310/1 |
| 60.166.000050 | 50 µm  | -          | 400 mm | 65 mm  | ISO 3310/1 |
| 60.166.000053 | 53 µm  | -          | 400 mm | 65 mm  | ISO 3310/1 |
| 60.166.000056 | 56 µm  | -          | 400 mm | 65 mm  | ISO 3310/1 |
| 60.166.000063 | 63 µm  | -          | 400 mm | 65 mm  | ISO 3310/1 |
| 60.166.000071 | 71 µm  | -          | 400 mm | 65 mm  | ISO 3310/1 |
| 60.166.000075 | 75 µm  | -          | 400 mm | 65 mm  | ISO 3310/1 |
| 60.166.000080 | 80 µm  | -          | 400 mm | 65 mm  | ISO 3310/1 |
| 60.166.000090 | 90 µm  | -          | 400 mm | 65 mm  | ISO 3310/1 |
| 60.166.000100 | 100 µm | -          | 400 mm | 65 mm  | ISO 3310/1 |
| 60.166.000106 | 106 µm | -          | 400 mm | 65 mm  | ISO 3310/1 |

|               |         |   |        |       |            |
|---------------|---------|---|--------|-------|------------|
| 60.166.000112 | 112 µm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.000125 | 125 µm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.000140 | 140 µm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.000150 | 150 µm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.000160 | 160 µm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.000180 | 180 µm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.000200 | 200 µm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.000212 | 212 µm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.000224 | 224 µm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.000250 | 250 µm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.000280 | 280 µm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.000300 | 300 µm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.000315 | 315 µm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.000355 | 355 µm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.000400 | 400 µm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.000425 | 425 µm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.000450 | 450 µm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.000500 | 500 µm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.000560 | 560 µm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.000600 | 600 µm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.000630 | 630 µm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.000710 | 710 µm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.000800 | 800 µm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.000850 | 850 µm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.000900 | 900 µm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.001000 | 1.00 mm | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.001120 | 1.12 mm | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.001180 | 1.18 mm | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.001250 | 1.25 mm | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.001400 | 1.40 mm | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.001600 | 1.60 mm | - | 400 mm | 65 mm | ISO 3310/1 |

|               |          |   |        |       |            |
|---------------|----------|---|--------|-------|------------|
| 60.166.001700 | 1.70 mm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.001800 | 1.80 mm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.002000 | 2.00 mm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.002240 | 2.24 mm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.002360 | 2.36 mm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.002500 | 2.50 mm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.002800 | 2.80 mm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.003150 | 3.15 mm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.003350 | 3.35 mm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.003550 | 3.55 mm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.004000 | 4.00 mm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.004500 | 4.50 mm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.004750 | 4.75 mm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.005000 | 5.00 mm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.005600 | 5.60 mm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.006300 | 6.30 mm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.006700 | 6.70 mm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.007100 | 7.10 mm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.008000 | 8.00 mm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.009000 | 9.00 mm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.009500 | 9.50 mm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.010000 | 10.00 mm | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.011200 | 11.20 mm | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.012500 | 12.50 mm | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.013200 | 13.20 mm | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.014000 | 14.00 mm | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.016000 | 16.00 mm | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.018000 | 18.00 mm | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.019000 | 19.00 mm | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.020000 | 20.00 mm | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.022400 | 22.40 mm | - | 400 mm | 65 mm | ISO 3310/1 |

|               |           |   |        |       |            |
|---------------|-----------|---|--------|-------|------------|
| 60.166.025000 | 25.00 mm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.026500 | 26.50 mm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.028000 | 28.00 mm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.031500 | 31.50 mm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.035500 | 35.50 mm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.037500 | 37.50 mm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.040000 | 40.00 mm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.045000 | 45.00 mm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.050000 | 50.00 mm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.053000 | 53.00 mm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.056000 | 56.00 mm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.063000 | 63.00 mm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.071000 | 71.00 mm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.075000 | 75.00 mm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.080000 | 80.00 mm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.090000 | 90.00 mm  | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.100000 | 100.00 mm | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.106000 | 106.00 mm | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.112000 | 112.00 mm | - | 400 mm | 65 mm | ISO 3310/1 |
| 60.166.125000 | 125.00 mm | - | 400 mm | 65 mm | ISO 3310/1 |