

# VIBRATORY SIEVE SHAKER AS 300 CONTROL



The **analytical sieve shaker** AS 300 control is used in research & development, quality control of raw materials, interim and finished products as well as in production monitoring. The **controllable electromagnetic drive** offers an optimal adaption for every product. **Sharp fractions** are obtained even after **short sieving times**. The AS 300 control is particularly designed for test sieves with a diameter of **305 mm (12")**. Compared to sieves with a diameter of 200 mm, a **2.25 times higher sieving surface** is available. Therefore, the **average sieving times can be greatly reduced** with the AS 300 control.

With its all-digital controls and calibration certificate the sieve shaker AS 300 control is indispensable for all users who attach **importance to precision and operational convenience** and need to comply with the guidelines of the **ISO 9001**.

## APPLICATION EXAMPLES

cement clinker, chemicals, coffee, construction materials, fertilizers, fillers, flours, grains, metals powders, minerals, nuts, plastics, sand, seeds, soils, washing powder, ...

## PRODUCT ADVANTAGES

- | NEW: up to 99 sieving programs
- | NEW: low noise operation thanks to optimized control
- | NEW: USB connection for use of EasySieve software
- | suitable for dry and wet sieving
- | excellent separation efficiency even with short sieving times
- | efficient electromagnetic drive
- | 3-D throwing motion which ensures optimum use of the open sieve area and lets the sample move equally over the whole sieving surface
- | setting of sieve acceleration "g" for comparable and reproducible sieving results worldwide
- | sieve stack up to 510 mm height
- | free digital adjustment of all process parameters (time, amplitude or sieve acceleration, interval)
- | interval operation
- | optional sieve software EasySieve for control of the shaker, easy evaluation and documentation of results
- | fulfils all criteria for measuring equipment related to ISO 9001
- | calibration certificate
- | easy operation (clamping), ergonomic design
- | maintenance-free
- | dry and wet sieving in one model

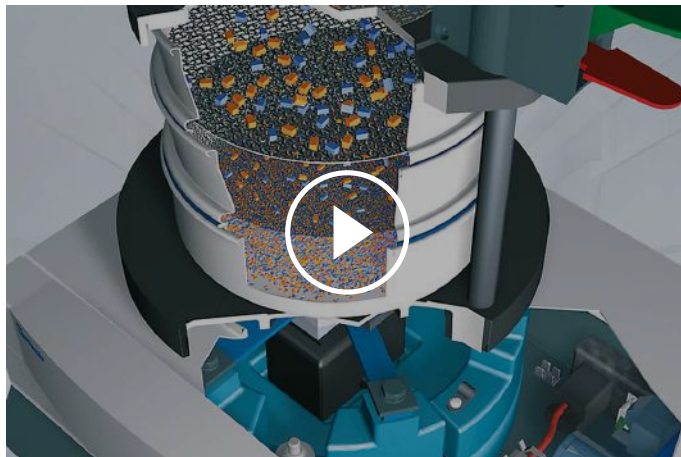
## FEATURES

<b>Applications</b>	separation, fractioning, particle size determination
<b>Field of application</b>	agriculture, biology, chemistry / plastics, construction materials, engineering / electronics, environment / recycling, food, geology / metallurgy, glass / ceramics, medicine / pharmaceuticals
<b>Feed material</b>	powders, bulk materials, suspensions
<b>Measuring range*</b>	20 µm - 40 mm
<b>Sieving motion</b>	throwing motion with angular momentum
<b>Max. batch / feed capacity</b>	6 kg
<b>Max. number of fractions</b>	11 / 17
<b>Max. mass of sieve stack</b>	10 kg
<b>Amplitude</b>	digital, 0.2 - > 2.20 mm
<b>Controlled amplitude</b>	yes
<b>Sieve acceleration</b>	1.0 - > 10.0 g
<b>Time display</b>	digital, 1 - 99 min
<b>Interval operation</b>	1 - 99 s
<b>Storable SOPs</b>	99
<b>Suitable for dry sieving</b>	yes
<b>Suitable for wet sieving</b>	yes
<b>Serial interface</b>	yes
<b>Including test certificate / can be calibrated</b>	yes
<b>Suitable sieve diameters</b>	100 mm / 200 mm / 203 mm (8") / 305 mm / 315 mm
<b>Max. height of sieve stack</b>	510 mm
<b>Clamping devices</b>	"standard", "comfort", each for wet and dry sieving
<b>Protection code</b>	IP 54 / IP 20
<b>Electrical supply data</b>	100-240 V, 50/60 Hz
<b>Power connection</b>	1-phase
<b>W x H x D</b>	417 x 220 x 384 mm
<b>Net weight</b>	~ 42 kg
<b>Standards</b>	CE

\*depending on feed material and instrument configuration/settings

## FUNCTIONAL PRINCIPLE

The AS 300 works with an electromagnetic drive that is patented by RETSCH (EP 0642844). This drive produces a 3D throwing motion that moves the product to be sieved equally over the whole sieving surface. The advantage: high stress capacity, extremely smooth operation and short sieving times with high separation efficiency.



[Click to view video](#)

[www.retsch.com/as300control](http://www.retsch.com/as300control)