

Sieve Shakers



IDEAL FOR

- SIEVING
- MEASURING THE QUANTITATIVE PARTICLE SIZE DISTRIBUTION OF SOLIDS AND SUSPENSIONS
- SEPARATING
- FRACTIONING

SIEVE SHAKERS

EVERYTHING YOU NEED FOR SIEVING

The FRITSCH sieve range is the focused answer to all typical sieving tasks in the laboratory: three well-conceived instruments for every application, with FRITSCH concepts that make the work simpler and faster – easy to operate, reliable and long-lasting. For dry, wet and micro-precision sieving, with extensive accessories and the analysis software AUTOSIEVE. Typically FRITSCH!



QUALITY MADE IN GERMANY

FRITSCH is more than just a brand: It is backed by a strong, medium-sized, family business in its fourth generation, which has been firmly embedded in the region since 1920 and globally active for decades. All FRITSCH-products are produced according to strict quality criteria, and our entire production is in-house. The innovative ideas of our development department are inspired by the close relationship with our customers and their practical work in the lab. Satisfied customers worldwide count on our quality, our experience and our service. This makes us proud and motivates us.

FRITSCH. ONE STEP AHEAD.



ANALYSETTE 3 SPARTAN

Simple sieving for
all tasks



ANALYSETTE 3 PRO

Precise sieving
with amplitude control



ANALYSETTE 18

Effective sieving
of large quantities

**FRITSCH SIEVE SHAKERS:
CONVENIENT, PRECISE, RELIABLE**

- > **Dry, wet and micro-precision sieving**
- > **Simple, ergonomic operation**
- > **Fast, reproducible results**
- > **Sample quantities between 0.05 g and 15 kg**
- > **Sieve diameter from 100 mm to 450 mm, mesh widths from 5 µm–125 mm**
- > **Can be used as testing equipment in accordance with DIN EN ISO 9001**
- > **Automatic sieve evaluation with the extensive FRITSCH software AUTOSIEVE**



ANALYSETTE 3 PRO

Precise sieving with automatic amplitude control

The high performance Vibratory Sieve Shaker ANALYSETTE 3 PRO offers everything you need for fast determination of quantitative particle size distribution in the laboratory. As a shaking sieve system with an electromagnetic drive oscillates the sieve stack into regulated vertical oscillations, and is the ideal solution for sieving sample quantities up to 2 kg and a measurement range from 5 µm to 63 mm. The ANALYSETTE 3 PRO is perfectly suited for fast quality control of incoming and outgoing products, offers user-friendly operation and is low-noise, robust and long-lasting.



Sieve stack tensioning systems

The electric, easy-to-use sieve stack tensioning system **TorqueMaster** applies constant and reproducible tensioning forces to the sieve stack through precisely controlled fastening of the sieve clamping lid. Ideal for precise results, because the tensioning has a great influence on the sieving result.

Our suggestion: The sieve tensioning system TorqueMaster can be attached and used with any sieve shaker.



Automatic evaluation of sieving results

The extensive software AUTOSIEVE enables the **controlling of the ANALYSETTE 3 PRO** and the automatic evaluation, simple monitoring and documentation of your sieving results. Simply download AUTOSIEVE at www.fritsch-international.com/autosieve and test it non-binding and free of charge for 90 days.

All you have to do is to connect a laboratory analysis balance (see ordering data, accessories for automatic evaluation of sieve analysis), and then weigh the sieves before and after sieving using differential weighing. AUTOSIEVE will do the rest.

The unique, warp-free **FRITSCH EASYTWIST sieve stack tensioner** for tensioning the sieve stack with high-quality, steel-reinforced plastic bands. Your advantage: Faster, simpler setup in just a few steps, unobstructed work without annoying rods, lower space requirements and more safety. Particularly cost-effective: The tensioning system is already included in the scope of delivery.

Intelligent wet sieving

The specially developed FRITSCH wet sieving lid with 2 rotation nozzles for an uniform spraying of the material to be sieved from above and by an additional interposed sieving ring above the sieve with the largest amount of finely sieved material.

Your advantage: Improved sieving effect for faster results – and the most efficient wet sieving that has ever existed.



STANDARDS-COMPLIANT FOR INTEGRATION INTO ISO 9001 QUALITY MANAGEMENT

Especially efficient Up to 10 test sieves can be used simultaneously per working cycle – allowing up to 5 sieving operations (interposed sieve pan and sieve alternately) to be performed at the same time.

Especially clever All functions can be controlled via a **RS232 interface**. The interface and AUTOSIEVE allow inspection of the sieving process via an online comparison of the set and actual amplitude and therefore an Auto-Validation of the sieving process.

Especially safe The optimum power consumption due to the variable sieving frequency of the ANALYSETTE 3 PRO prevents a warming up of the sieving system.

FRITSCH Advantage AMPCONTROL for setting constant amplitude, which is automatically monitored and regulated. Your advantage: Guaranteed constant amplitude, meaning precisely reproducible sieving results in accordance with DIN 66165-1 and the possibility to calibrate and validate your ANALYSETTE 3 PRO as an inspection instrument in inspection of measuring and testing equipment according to ISO 9001.

Especially convenient By utilizing the software AUTOSIEVE all important functions such as amplitude, sieving time, intermittent mode and type of sieving can be entered comfortably via the computer or the clearly organized, ergonomic soft-touchpad with digital display.



ANALYSETTE 3 PRO

Especially simple

The following functions can be conveniently controlled via touchpad:

Programme selection – You can store up to 10 individual sieve programmes to make your work even easier.

Intermittent mode – For sieving voluminous material with low density to reduce the sieving time.

Micro- and micro-intermittent mode – For micro-sieving of fine materials in the range from 5 µm to 100 µm.

Energy-saving mode – the instrument switches automatically to standby.



ANALYSETTE 3 SPARTAN

Simple sieving for all tasks

The little sister of the ANALYSETTE 3 PRO for all typical sieving tasks in the laboratory with optical adjustment of the amplitude on the running instrument. Complete with the practical FRITSCH sieve stack tensioning system EASYTWIST and the possibility of automatic evaluation of the sieve analysis using the extensive FRITSCH evaluation software AUTOSIEVE.



Especially practical Optical display of the amplitude during sieving.

Up to 10 test sieves can be used simultaneously per working cycle – allowing up to 5 sieving operations (interposed sieve pan and sieve alternately) to be performed at the same time.

FRITSCH Advantage The easy-to-use and time-saving sieve stack tensioner with steel-reinforced plastic bands is included in the instrument price.

The optimum power consumption using the variable sieving frequency of the ANALYSETTE 3 SPARTAN prevents warming up of the sieving system.

Exact entry of the sieving time via a precise digital timer on the ergonomically installed and robust soft-touchpad.

Especially simple Manual adjustment of the amplitude.

FRITSCH Advantage The multilingual **software AUTO-SIEVE** for automatic evaluation, simple monitoring and documentation of your sieving results can simply be downloaded at www.fritsch-international.com/autosieve and tested non-binding and free of charge for 90 days.

ANALYSETTE 3 SPARTAN

TECHNICAL DATA

	ANALYSETTE 3 PRO	ANALYSETTE 3 SPARTAN
Method of analysis	Sieving	Sieving
Sieving action	two-dimensional	two-dimensional
Dry sieving		
Measuring range	20 µm–63 mm*	20 µm–63 mm*
Max. sample quantity (approx.)	for sieves < 63 mm: up to 2 kg* for sieves < 100 µm: up to 100 g*	for sieves < 63 mm: up to 2 kg* for sieves < 100 µm: up to 100 g*
Sieving time (approx.)	3–20 min*	3–20 min*
Wet sieving		
Measuring range	20 µm–10 mm	20 µm–10 mm
Max. sample quantity (approx.)	20–100 g*	20–100 g*
Sieving time (approx.)	3–10 min*	3–10 min*
Micro-precision sieving		
Measuring range	5 µm–100 µm	
Max. sample quantity (approx.)	0.05–0.5 g*	
Sieving time (approx.)	30–60 min*	
Max. weight of sieve stack	3 kg	3 kg
Amplitude	0.1–3 mm	0.5–3 mm
Amplitude control	automatic	manual
Sieve diameters	100 mm, 200 mm or 8"	100 mm, 200 mm or 8"
Max. number of sieves per sieve stack	10 (50 mm height) or 16 (25 mm height)	10 (50 mm height) or 16 (25 mm height)
Max. height of sieve stack	550 mm	550 mm
Automatic sieve analysis with evaluation software AUTOSIEVE	Yes	Yes
Testing instrument calibration according to ISO 9001	Yes	No
Interface	Yes	No
Intermittent mode	Yes	No
Memory for 10 parameter combinations	Yes	No
Convertible to		
Vibratory Micro Mill PULVERISETTE 0	Yes	Yes
Electrical details	100-240 V/1~, 50-60 Hz, 50 watt	100-240 V/1~, 50-60 Hz, 50 watt
Weight		
Net/gross	21 kg / 26 kg	21 kg / 26 kg
Dimensions w x d x h		
Bench top instrument	37 x 40 x 20 cm	37 x 40 x 20 cm
Packing details w x d x h		
Cardboard box	50 x 43 x 30 cm	50 x 43 x 30 cm
Emission sound pressure level at the workplace according to DIN EN ISO 3746 (depending on the material to be sieved and instrument configuration)	$L_{pAd} = 63$ dB	$L_{pAd} = 63$ dB
Order no.	03.7020.00	03.8020.00

*Depending on the material to be sieved and the sieves used

YOUR SIEVE SHAKER BECOMES A MILL

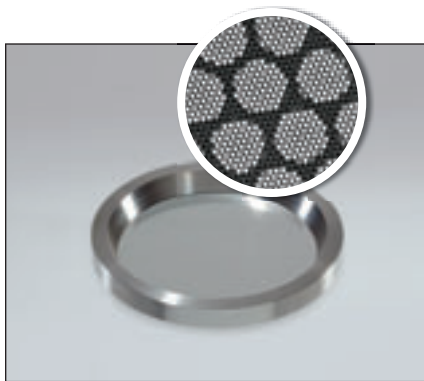
FRITSCH Advantage With just a few motions, your Sieve Shaker can be transformed into the Vibratory Micro Mill PULVERISETTE 0 for grinding and homogenising small sample quantities (filling volume 1 to 10 ml, feed particle size < 5 mm). And with the special FRITSCH cryo-box, grinding is even possible at low temperatures with liquid nitrogen. The ANALYSETTE 3 SPARTAN enables stable, uniform vibration in connection with the grinding set – the perfect milling solution! The corresponding accessories can be found in the leaflet Ball Mills or at www.fritsch-international.com/p-0.



PULVERISETTE 0 Vibratory Micro Mill



ACCESSORIES ANALYSETTE 3



Sieves

For dry and wet sieving with mesh widths from 20 μm to 63 mm. All are especially light, robust and manufactured in high quality. Highly alloyed stainless steel protects against corrosion and simplifies cleaning. Groove-free mesh transitions prevent contamination of the sieving material. Available in accordance with ISO 3310-1 or ASTM E11 in the diameters 200 mm (height 50 mm or 25 mm), 100 mm (height 40 mm) or 8" (height 2"). Every sieve is laser-engraved, optically measured and delivered with a compliance certificate.

FRITSCH Micro-Precision Sieves

Available only from FRITSCH: With the micro-precision sieves, the ANALYSETTE 3 PRO is suitable for wet sieving of fine materials from 5 μm to 100 μm and of the smallest sample quantities from 0.05–0.5 g. The micro-precision sieves of pure nickel foil with a sieve diameter of 100 mm feature a large open sieving surface. Blockages are reliably prevented by the etched-in holes that widen toward the bottom. The matching clamping set, sieve clamping lid, sieve pan, sieve spacer and fast locking clamp along with the large sieve surface permit efficient sieving.

Sieve clamping lid, sieve pans and interposed sieve pans for dry sieving

For observation of the sieving process, a sieve clamping lid made of plexiglas is available for FRITSCH test sieves of 200 mm/8" diameter and for 100 mm test sieves a clamping lid made of POM plastic with security glass is offered. You also receive a clamping lid made of POM plastic (without window) to sieve materials for which metallic contamination must be avoided. Of course, we also offer corresponding sieve pans and sieves made of plastic. Sieve pans and interposed sieve pans for multiple sieving operations in a single process are available in stainless steel for all sieve sizes.

CERTIFICATES

For certification of the ANALYSETTE 3 PRO as an inspection instrument, a 3.1 EN 10204 inspection certificate as well as a form for IQ/OQ documentation are available. A 3.1 EN 10204 inspection certificate is also offered for FRITSCH test sieves in accordance with ISO 3310-1.

Of course, we would also be happy to recertify your Vibratory Sieve Shaker ANALYSETTE 3 PRO and FRITSCH test sieves according to ISO 3310-1 at our headquarters in Idar-Oberstein or directly at your location.

A form for IQ/OQ documentation is also available for the ANALYSETTE 3 SPARTAN.



Sieve clamping lid, interposed sieve ring, sieve pan and venting ring for wet sieving

Only available from FRITSCH: During wet sieving with test sieves (200 mm/8"), the specially developed wet clamping lid with 2 rotation nozzles ensures an uniform spraying of the sieving material from above for an optimal sieving effect. Special interposed sieving rings with 3 nozzles are available for simultaneous spraying of the top and bottom sieves. A sieve clamping lid of plexiglas with 1 nozzle is also offered for wet sieving with 100 mm test sieves. The corresponding sieve pans with outlet are available for all sieve sizes. To prevent the occurrence of air cushions during wet sieving with test sieves < 100 µm FRITSCH offers special venting rings.

Universal sieve tensioning system TorqueMaster

TorqueMaster enables automatic and reproducible tensioning of the sieve stack on the sieve shaker during dry sieving with test sieves 200 mm/8" diameter. Although the tensioning has a great influence on the sieving result, it is relatively undefined in conventional systems. The universal sieve clamping system TorqueMaster delivers constant and reproducible clamping forces of ~ 1 kN to the sieve stack, enabling the calibration of the sieve tensioning – essential when using the ANALYSETTE 3 PRO as inspection instrument according to ISO 9001.

Sieving aids

For dry sieving of materials with a high share of fine particles, 10 mm agate balls or 20 mm rubber balls should be used as sieving aids for medium and large sieves and 5 mm agate balls for fine sieves. Your advantage: They prevent clogging of the sieve mesh.



ANALYSETTE 18

Effective sieving of large quantities

The ANALYSETTE 18 is the robust, Heavy Duty Analytical Sieve Shaker from FRITSCH. It can effortlessly sieve up to 15 kg of material between 20 µm and 125 mm. Due to three-dimensional sieving action the sieving material is not only accelerated vertically, but also horizontally and ensures a permanent change of direction of the material. For especially fast sieving results without manual re-sieving and optimal reproducibility.



FRITSCH Advantage For **wet sieving** with the ANALYSETTE 18 simply use the conversion kit consisting of clamping lid with spreading spray diffuser, sieve pan with outlet made of stainless steel 400 mm dia. and PVC-hose.

FRITSCH Advantage Universal support plate for sieves with diameters of 300, 315, 350, 400 and 450 mm resp. 12"-18". For the utilization of test sieves with diameter of 200 mm resp. 8" an adapter is available. Sieves with mesh width from 20 µm to 125 mm in accordance with ISO 3310-1 and ASTM E11 are available.

For sieving of fine-grained materials or agglomerates, the use of for example vulkollan cubes are recommended.



Especially reproducible Constant amplitude at all times due to **automatic amplitude control** with continuous acceleration measurement of the whole sieve stack.

Especially comfortable The ANALYSETTE 18 is operated by remote control via a separate, handy operating unit.

TECHNICAL DATA

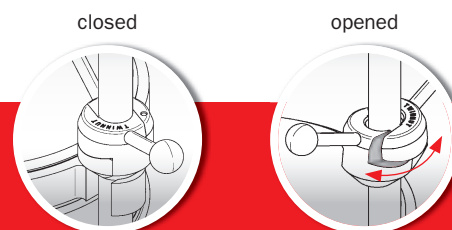
		ANALYSETTE 18	
Method of analysis	Sieving		
Sieving action	three-dimensional		
Sieving	Dry Sieving	Wet Sieving	
Measuring range	20 µm–125 mm*	20 µm–20mm*	
Max. sample quantity (approx.)	15 kg*	15 kg*	
Sieving time (approx.)	5–60 min*	5–60 min*	
Max. weight of sieve stack	42 kg		
Amplitude	0.1–2 mm		
Amplitude control	Automatic		
Sieve diameters	300 mm, 315 mm, 350 mm, 400 mm, 450 mm, 12"–18"; 200 mm and 8" (adapter required)		
Max. number of sieves per sieve stack	12 (65 mm height)		
Max. height of sieve stack	845 mm		
Automatic sieve analysis with evaluation software AUTOSIEVE	Yes		
Testing instrument calibration according to ISO 9001	Yes		
Interface	Yes		
Intermittent mode	Yes		
Memory for 99 parameter combinations	Yes		

		ANALYSETTE 18	
Electrical details	230 V/1~, 50–60 Hz, 200 watt		
	115 V/1~, 50–60 Hz, 200 watt		
Weight			
Net/gross	135 kg/157 kg		
Dimensions w x d x h			
Floor instrument	58 x 59 x 130 cm		
Packing details w x d x h			
Wooden case	76 x 76 x 76 cm		
Emission sound pressure level at the workplace according to DIN EN ISO 3746 (depending on the material to be sieved and instrument configuration)	L _{pWA} = 73 dB		
Order no.	230 V/1~, 50–60 Hz	115 V/1~, 50–60 Hz	
	18.3020.00	18.3010.00	

* Depending on the material to be sieved and the sieves used



Especially practical and safe The ANALYSETTE 18 is supplied with a clamping lid for dry sieving and the quick fastening system TwinNut. This safely ensures constant tensioning pressure and stability of the sieve stack.



Especially efficient Up to 12 test sieves (65 mm height) with sieve pans and lid can be used per working cycle.

FRITSCH Advantage The extensive software **AUTOSIEVE** for automatic evaluation of your sieve analysis and for simple monitoring and documentation of your sieving results with extensive presentation of your sieving results according to DIN ISO 9276-1 can simply be downloaded at www.fritsch-international.com/autosieve and tested non-binding and free of charge for 90 days.

All you have to do is to connect an analysis balance, and then weigh the sieves before and after sieving using differential weighing. AUTOSIEVE will do the rest.

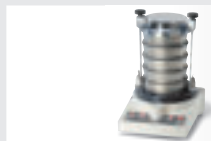
ANALYSETTE 18

ORDERING DATA

Order no.	Article
-----------	---------

VIBRATORY SIEVE SHAKER

ANALYSETTE 3 PRO + SPARTAN



Instrument without clamping lid, test sieves and sieve pan, incl. tensioning and software AUTOSIEVE – free of charge as a test version for 90 days

03.7020.00	Model PRO , for 100-240 V/1~, 50-60 Hz, 50 Watt
03.8020.00	Model SPARTAN , for 100-240 V/1~, 50-60 Hz, 50 Watt

Accessories for dry sieving

31.2020.00	Clamping lid plexiglas for test sieves 200 mm/8" dia.
31.2050.00	Clamping lid POM plastic (without window) for all test sieves up to 200 mm/8" dia.
31.2100.00	Sieve tensioning system TorqueMaster (consisting of clamping lid plexiglas for test sieves 200 mm/8" dia. and electrical tool 100-240 V/1~, 50-60 Hz)
31.2016.00	Clamping lid POM plastic with security glass for test sieves 100 mm dia.
31.1300.03	Interposed sieve pan made of stainless steel 200 mm dia., 50 mm height
31.1320.03	Interposed sieve pan made of stainless steel 8" dia., 2" height
31.1000.03	Sieve pan made of stainless steel 200 mm dia., 50 mm height
31.1020.03	Sieve pan made of stainless steel 8" dia., 2" height
31.1040.03	Sieve pan made of stainless steel 100 mm dia., 40 mm height

Accessories for wet sieving

31.0400.00	Clamping lid plexiglas with 2 rotation nozzles for test sieves 200 mm/8" dia.
31.1100.03	Sieve pan made of stainless steel with outlet 200 mm dia., 50 mm height
31.0240.00	Interposed sieving ring with 3 nozzles for test sieves 200 mm dia.
31.1330.03	Venting ring for test sieves 200 mm dia. (required when utilizing test sieves < 100 µm)
31.1120.03	Sieve pan made of stainless steel with outlet 8" dia., 2" height
31.0250.00	Interposed sieving ring with 3 nozzles for test sieves 8" dia.
31.1340.03	Venting ring for test sieves 8" dia. (required when utilizing test sieves < 100 µm)
31.2040.00	Clamping lid plexiglas with 1 nozzle for test sieves 100 mm dia.
31.1140.00	Sieve pan made of stainless steel with outlet 100 mm dia., 40 mm height

**Accessories for micro-precision sieving
(Only possible with ANALYSETTE 3 PRO)**

33.1200.00	Clamping set for micro-precision sieves 100 mm dia. (= 3 screws + clamps, without clamping lid, sieve pan and micro-precision sieves)
33.1050.00	Clamping lid aluminium/plexiglas with 1 nozzle
33.1150.00	Funnel (sieve pan) made of aluminium with outlet
33.1000.00	Sieve spacer made of aluminium with 2 seal rings
33.1100.00	Fast locking clamp made of stainless steel (See ordering example page 13)

Certification

96.0010.00	Inspection certificate 3.1 EN 10204 for FRITSCH Sieve Shaker ANALYSETTE 3 PRO (Please note: if necessary, please order together with the Sieve Shaker)
31.0900.00	Inspection certificate 3.1 EN 10204 for FRITSCH test sieves according to ISO 3310-1 (Please note: if necessary, please order together with each test sieve)
96.0200.00	IQ/OQ documentation for FRITSCH Sieve Shaker ANALYSETTE 3 PRO (questionnaire format - implementation by customer)
96.0100.00	IQ/OQ documentation for FRITSCH Sieve Shaker ANALYSETTE 3 SPARTAN (questionnaire format - implementation by customer)

Accessories for automatic evaluation of sieve analysis

03.2902.00	Software AUTOSIEVE-activation for installation on up to 3 Windows PCs (after expiration of the free of charge test phase) incl. cable and device driver for controlling the Vibratory Sieve Shaker ANALYSETTE 3 PRO
03.2600.00	Laboratory analysis balance, up to 4.1 kg (± 0.01 g) with RS232 interface, incl. computer connection cable

Sieve pans with and without outlet made of stainless steel are also available in 200 mm dia., 25 mm height and 8" dia., 1" height.

Order no.	Article
-----------	---------

Sieving aids

55.0050.05	Agate ball 5 mm dia. (15 pcs. per sieve)
55.0100.05	Agate ball 10 mm dia. (10 pcs. per sieve)
31.0180.15	Rubber ball 20 mm dia. (5 pcs. per sieve)

Sieve covers

31.1200.03	Sieve cover made of stainless steel for test sieves 200 mm dia.
31.1220.03	Sieve cover made of stainless steel for test sieves 8" dia.
31.1240.03	Sieve cover made of stainless steel for test sieves 100 mm dia.

Replacement seal rings

31.0010.16	Replacement seal ring NBR for test sieves 200 mm/8" dia., 50 mm/2" height, 200 mm dia., 25 mm height
31.0520.16	Replacement seal ring NBR for test sieves 100 mm dia.
84.0230.15	Replacement seal ring NBR (2 each for 33.1000.00)

Accessories for grinding and homogenising small sample quantities

31.2016.00	Grinding head for conversion to Vibratory Micro Mill PULVERISETTE 0 Request a detailed Ball Mills leaflet with information on the Vibratory Micro Mill PULVERISETTE 0 as well as mortars and balls.
------------	--

Recertification of the Vibratory Sieve Shaker ANALYSETTE 3 PRO and FRITSCH test sieves according to ISO 3310-1 on request.

Computer, colour ink jet printer and laser printer on request.

ORDERING DATA

Order no. Article

TEST SIEVES

ANALYSETTE 3 PRO + SPARTAN
 Frame and mesh wire made of stainless steel
 with compliance certificate
 100 mm/200 mm/8" dia.



ISO 3310-1 • Mesh width • mm/µm		ASTM • E11 • mesh	
Order no.	200 mm dia., 50 mm height	Order no.	8" dia., 2" height
30.0000.03	63 mm •		
30.0005.03	45 mm •		
30.0100.03	31.5 mm •		
30.0200.03	25 mm	35.0220.03	1" = 25 mm
30.0300.03	22.4 mm •	35.0320.03	7/8" = 22.4 mm
30.0400.03	20 mm		
30.0500.03	19 mm	35.0620.03	3/4" = 19 mm
30.0600.03	18 mm		
30.0800.03	16 mm •	35.0820.03	5/8" = 16 mm
30.0900.03	14 mm	35.0920.03	0.53" = 13.2 mm
30.1000.03	12.5 mm	35.1020.03	1/2" = 12.5 mm
30.1100.03	11.2 mm •	35.1120.03	7/16" = 11.2 mm
30.1200.03	10 mm	35.1220.03	3/8" = 9.5 mm
30.1300.03	9 mm		
30.1400.03	8 mm •	35.1420.03	5/16" = 8 mm
30.1500.03	7.1 mm	35.1520.03	0.265" = 6.7 mm
30.1600.03	6.3 mm	35.1620.03	1/4" = 6.3 mm
30.1700.03	5.6 mm •	35.1720.03	3 1/2" = 5.6 mm
30.1800.03	5 mm	35.1820.03	4 = 4.75 mm
30.1900.03	4.5 mm		
30.2000.03	4 mm •	35.2020.03	5 = 4 mm
30.2100.03	3.55 mm	35.2120.03	6 = 3.35 mm
30.2200.03	3.15 mm		
30.2300.03	2.8 mm •	35.2320.03	7 = 2.8 mm
30.2400.03	2.5 mm	35.2420.03	8 = 2.36 mm
30.2500.03	2.24 mm		
30.2600.03	2 mm •	35.2620.03	10 = 2 mm
30.2700.03	1.8 mm		
30.2800.03	1.6 mm	35.2820.03	12 = 1.7 mm
30.2900.03	1.4 mm •	35.2920.03	14 = 1.4 mm
30.3000.03	1.25 mm	35.3020.03	16 = 1.18 mm
30.3100.03	1.12 mm		
30.3200.03	1 mm •	35.3220.03	18 = 1 mm
30.3300.03	900 µm		
30.3305.03	850 µm	35.3420.03	20 = 850 µm
30.3400.03	800 µm		
30.3500.03	710 µm •	35.3520.03	25 = 710 µm
30.3600.03	630 µm		
30.3605.03	600 µm	35.3620.03	30 = 600 µm
30.3700.03	560 µm		
30.3800.03	500 µm •	35.3820.03	35 = 500 µm
30.3900.03	450 µm		
30.4000.03	400 µm	35.4020.03	40 = 425 µm
30.4100.03	355 µm •	35.4120.03	45 = 355 µm
30.4200.03	315 µm		
30.4205.03	300 µm	35.4220.03	50 = 300 µm
30.4300.03	280 µm		
30.4400.03	250 µm •	35.4420.03	60 = 250 µm
30.4500.03	224 µm		
30.4505.03	212 µm	35.4620.03	70 = 212 µm
30.4600.03	200 µm		
30.4700.03	180 µm •	35.4720.03	80 = 180 µm
30.4800.03	160 µm		
30.4805.03	150 µm	35.4820.03	100 = 150 µm
30.4900.03	140 µm		
30.5000.03	125 µm •	35.5020.03	120 = 125 µm
30.5100.03	112 µm		
30.5105.03	106 µm	35.5220.03	140 = 106 µm
30.5200.03	100 µm		
30.5400.03	90 µm •	35.5420.03	170 = 90 µm
30.5600.03	80 µm		
30.5700.03	75 µm	35.5820.03	200 = 75 µm
30.5800.03	71 µm		
30.6000.03	63 µm •	35.6020.03	230 = 63 µm
30.6200.03	56 µm		
30.6300.03	53 µm	35.6220.03	270 = 53 µm
30.6400.03	50 µm		
30.6600.03	45 µm •	35.6620.03	325 = 45 µm
30.6800.03	40 µm		
30.6900.03	38 µm	35.7020.03	400 = 38 µm
30.7000.03	36 µm		
30.7200.03	32 µm •	35.7220.03	450 = 32 µm
30.7600.03	25 µm •	35.7620.03	500 = 25 µm
30.7800.03	20 µm •	35.7820.03	635 = 20 µm

• ISO 565 R20/3 (main sizes)

If you would like a test sieve in other diameters, please take note of the **ordering examples** to the right.

Recertification of FRITSCH test sieves according to ISO 3310-1 on request.

Ordering example for test sieves in other diameters

200 mm dia., 50 mm height,
 200 mm dia., 25 mm height,
 8" dia., 2" height,
 100 mm dia., 40 mm height

Deviation from standard sieve size	ISO 3310-1 mesh width mm/µm	ASTM E11 mesh
Test sieve 5 mm mesh width, 200 mm dia., height 50 mm = standard size	For example 30.1800.03	For example 35.1800.03
Test sieve 5 mm mesh width, 200 mm dia., height 25 mm	Replace 5 th position = "0" in the order no. by "1"	For example 30.1810.03
Test sieve 5 mm mesh width, 8" dia., height 2"	Replace 5 th position = "0" in the order no. by "2"	For example 35.1820.03
Test sieve 5 mm mesh width, 100 mm dia., height 40 mm	Replace 5 th position = "0" in the order no. by "4"	For example 35.1840.03

Test sieves and sieving accessories in other diameters and mesh widths on request.
 Test sieves made of polyamide are available on request.
 Test sieves and sieving accessories can not be exchanged or returned!

MICRO-PRECISION SIEVES

ANALYSETTE 3 PRO

Frame made of stainless steel, sieve foil and grid made of pure nickel,
 100 mm dia., according to ISO 3310-3



Order no.	Aperture width µm	Open sieve area = %
32.0050.00	Aperture width 5 µm	2.8
32.0100.00	Aperture with 10 µm	11.2
32.0150.00	Aperture with 15 µm	9.8
32.0200.00	Aperture with 20 µm	17.5
32.0250.00	Aperture with 25 µm	10.4
32.0300.00	Aperture with 30 µm	14.9
32.0350.00	Aperture with 35 µm	12.6
32.0400.00	Aperture with 40 µm	16.5
32.0450.00	Aperture with 45 µm	8.5
32.0500.00	Aperture with 50 µm	10.5
32.0600.00	Aperture with 60 µm	9.3
32.0700.00	Aperture with 70 µm	12.6
32.0800.00	Aperture with 80 µm	16.5
32.0900.00	Aperture with 90 µm	20.9
32.1000.00	Aperture with 100 µm	25.7

Ordering example for micro-precision sieves

Example of an order for a sieve stack with 4 micro-precision sieves:

- 4 micro-precision sieves of choice
- 1 clamping lid, aluminium/plexiglas with 1 nozzle (order no. 33.1050.00)
- 1 funnel (sieve pan) made of aluminium with outlet (order no. 33.1150.00)
- 5 sieve spacers made of aluminium with 2 seal rings (order no. 33.1000.00)
- 6 fast locking clamps made of stainless steel (order no. 33.1100.00)
- clamping set for micro-precision sieves with 100 mm dia.

Please note: one sieve spacer and two locking clamps more than the number of sieves must be ordered.

ORDERING DATA

Order no. Article

HEAVY DUTY ANALYTICAL SIEVE SHAKER

ANALYSETTE 18



Instrument without test sieves and sieve pan, incl. tensioning, clamping lid for dry sieving and software AUTOSIEVE – free of charge as a test version for 90 days

18.3020.00 for 230 V/1~, 50-60 Hz, 200 Watt
18.3010.00 for 115 V/1~, 50-60 Hz, 200 Watt

Accessories for test sieves 400 mm dia.

37.1000.01 Sieve pan made of stainless steel 400 mm dia. for dry sieving
37.1100.01 Interposed sieve pan made of stainless steel 400 mm dia. for dry sieving
18.3048.00 Conversion kit for wet sieving consisting of clamping lid with plexiglas cover and wide spreading spray diffuser, sieve pan with outlet made of stainless steel 400 mm dia. and PVC-hose
31.1350.02 Venting ring for wet sieving with test sieves 400 mm dia. (required when utilizing test sieves < 100 µm)
37.0010.16 Replacement seal ring NBR for test sieves 400 mm dia.

Accessories for test sieves 200 mm dia.

18.3051.00 Adapter polyamide for clamping lid for dry sieving with test sieves 200 mm/8" dia.

Certification

94.0420.00 IQ/OQ documentation (questionnaire format - implementation by customer)

Accessories for automatic evaluation of sieve analysis

03.2902.00 Software AUTOSIEVE-activation for installation on up to 3 Windows PCs (after expiration of the free of charge test phase)

Sieving aids

37.0200.16 1 vulkollan cube (10 cubes per sieve)

Sieve pans and test sieves with 200mm/8" dia., see ordering data ANALYSETTE 3, page 12.

Analysis balance, computer, colour ink jet printer and laser printer on request.

Order no. Article

TEST SIEVES

ANALYSETTE 18

Frame and mesh wire made of stainless steel with compliance certificate
400 mm dia., useful height 65 mm



ISO 3310-1 • Mesh width • mm/µm	ASTM • E11 • mesh
Order no. 400 mm dia., useful height 65 mm	Order no. 400 mm dia., useful height 65 mm
34.0040.02 125 mm •	
34.0050.02 100 mm	
34.0060.02 90 mm •	
34.0000.02 63 mm •	
34.0080.02 45 mm •	
34.0100.02 31.5 mm •	
34.0200.02 25 mm	34.0210.02 1" = 25 mm
34.0300.02 22.4 mm •	34.0310.02 7/8" = 22.4 mm
34.0400.02 20 mm	
34.0600.02 18 mm	34.0610.02 3/4" = 19 mm
34.0800.02 16 mm •	34.0810.02 5/8" = 16 mm
34.0900.02 14 mm	34.0910.02 0.53" = 13.2 mm
34.1000.02 12.5 mm	34.1010.02 1/2" = 12.5 mm
34.1100.02 11.2 mm •	34.1110.02 7/16" = 11.2 mm
34.1200.02 10 mm	34.1210.02 3/8" = 9.5 mm
34.1300.02 9 mm	
34.1400.02 8 mm •	34.1410.02 5/16" = 8 mm
34.1500.02 7.1 mm	34.1510.02 0.265" = 6.7 mm
34.1600.02 6.3 mm	34.1610.02 1/4" = 6.3 mm
34.1700.02 5.6 mm •	34.1710.02 3 1/2" = 5.6 mm
34.1800.02 5 mm	34.1810.02 4 = 4.75 mm
34.2000.02 4 mm •	34.2010.02 5 = 4 mm
34.2100.02 3.55 mm	34.2110.02 6 = 3.35 mm
34.2200.02 3.15 mm	
34.2300.02 2.8 mm •	34.2310.02 7 = 2.8 mm
34.2400.02 2.5 mm	34.2410.02 8 = 2.36 mm
34.2600.02 2 mm •	34.2610.02 10 = 2 mm
34.2700.02 1.8 mm	
34.2800.02 1.6 mm	34.2810.02 12 = 1.7 mm
34.2900.02 1.4 mm •	34.2910.02 14 = 1.4 mm
34.3000.02 1.25 mm	34.3010.02 16 = 1.18 mm
34.3100.02 1.12 mm	
34.3200.02 1 mm •	34.3210.02 18 = 1 mm
34.3300.02 900 µm	
34.3400.02 800 µm	34.3410.02 20 = 850 µm
34.3450.02 750 µm	
34.3500.02 710 µm •	34.3510.02 25 = 710 µm
34.3600.02 630 µm	34.3610.02 30 = 600 µm
34.3700.02 560 µm	
34.3800.02 500 µm •	34.3810.02 35 = 500 µm
34.3900.02 450 µm	
34.4000.02 400 µm	34.4010.02 40 = 425 µm
34.4100.02 355 µm •	34.4110.02 45 = 355 µm
34.4200.02 315 µm	34.4210.02 50 = 300 µm
34.4300.02 280 µm	
34.4400.02 250 µm •	34.4410.02 60 = 250 µm
34.4500.02 224 µm	
34.4600.02 200 µm	34.4610.02 70 = 212 µm
34.4700.02 180 µm •	34.4710.02 80 = 180 µm
34.4800.02 160 µm	34.4810.02 100 = 150 µm
34.4900.02 140 µm	
34.5000.02 125 µm •	34.5010.02 120 = 125 µm
34.5100.02 112 µm	
34.5200.02 100 µm	34.5210.02 140 = 106 µm
34.5400.02 90 µm •	34.5410.02 170 = 90 µm
34.5600.02 80 µm	
34.5800.02 71 µm	34.5810.02 200 = 75 µm
34.6000.02 63 µm •	34.6010.02 230 = 63 µm

• ISO (standard international)

Test sieves and sieving accessories in other diameters and mesh widths on request.

All above mentioned mesh widths are also available as test sieves with 200 mm/8" dia.

Test sieves and sieving accessories are not subject to exchange!



FRITSCH contact!

Yet another key advantage of FRITSCH: **Personal consultation and comprehensive service from our experts – practically anywhere in the world.**

If you have questions about FRITSCH laboratory instruments and their application, don't hesitate to contact us!

**+49 67 84 70 150 · service@fritsch.de
www.fritsch.de**

FRITSCH Particle Sizing

Choose **FRITSCH Particle Sizers** to take advantage of the technical superiority resulting from more than 35 years of practical experience in the field of high-tech particle technology. Our expert Maik Paluga is available to assist you in all questions regarding particle sizing. He will be happy to inform you about the applications of the **Static Light Scattering Analysis** and **Dynamic Image Analysis**. Just a phone call away!

**+49 67 84 70 188 · paluga@fritsch.de
www.fritsch-international.com/particle-sizing**

ANALYSETTE 22

NanoTec

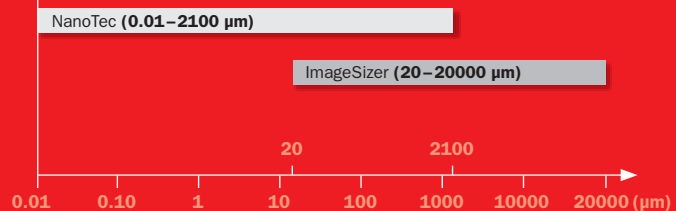
➤ Static Light Scattering



ANALYSETTE 28

ImageSizer

➤ Dynamic Image Analysis



Showing you how it's done!

Our application laboratory will be more than glad to help you find the perfect Particle Sizer for your specific task. If desired, within the scope of a product recommendation, we will conduct a particle analysis of your material. Simply request at

www.fritsch-international.com/service/sample-analysis.

The result will convince you.



Fritsch GmbH

Milling and Sizing

Industriestrasse 8

55743 Idar-Oberstein

Germany

Phone +49 67 84 70 0

info@fritsch.de

www.fritsch.de