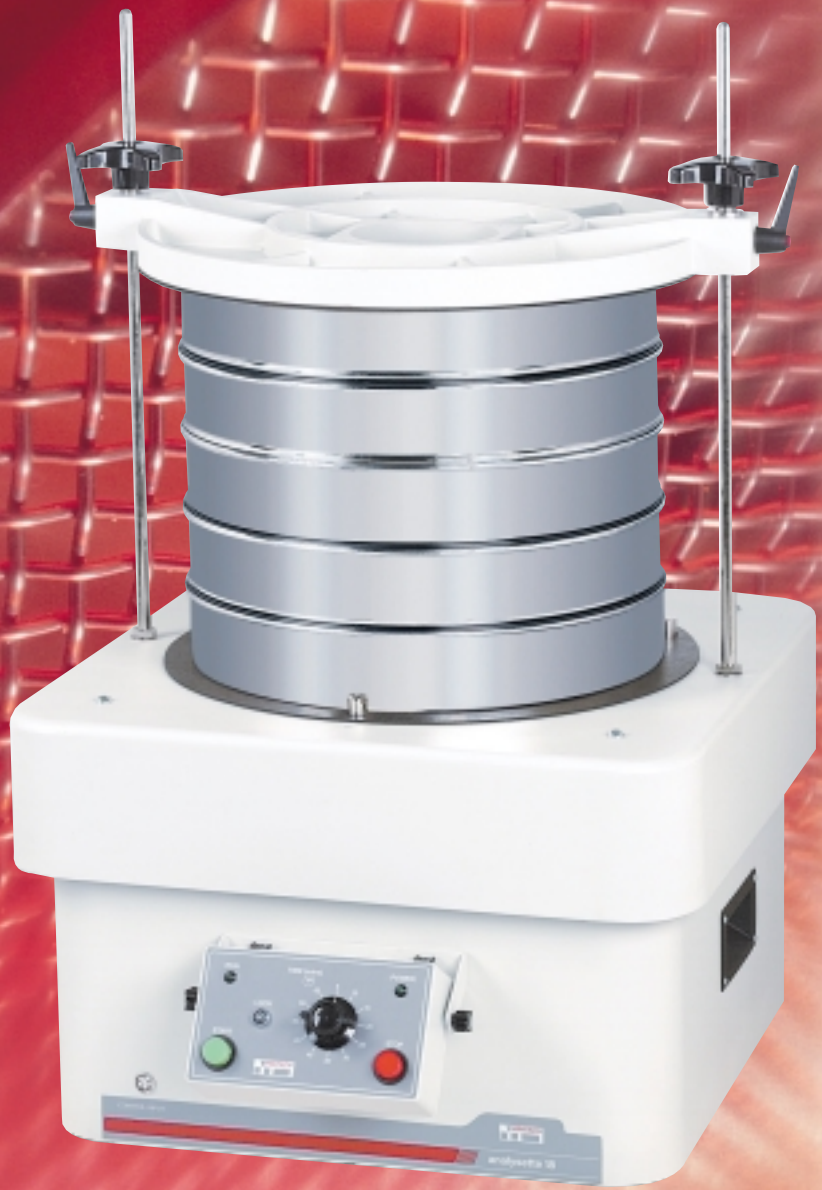
dijkstra vereenigde
Postbus 2151 Pascallaan 9
8203 AD Lelystad 8218 NJ Lelystad
Tel: 0320-266171 Fax: 0320-257354
email: laboratorium@dijkstra.net
www.dijkstra.net

ZERKLEINERN PARTIKELMESSEN TEILEN MILLING PARTICLE SIZING DIVIDING ZERKLEINERN PARTIKELMESSEN TEILEN MILLING PARTICLE SIZING DIVIDING ZERKLEINERN PARTIKELMESSEN TEILEN

FRITSCH

analysette® 18



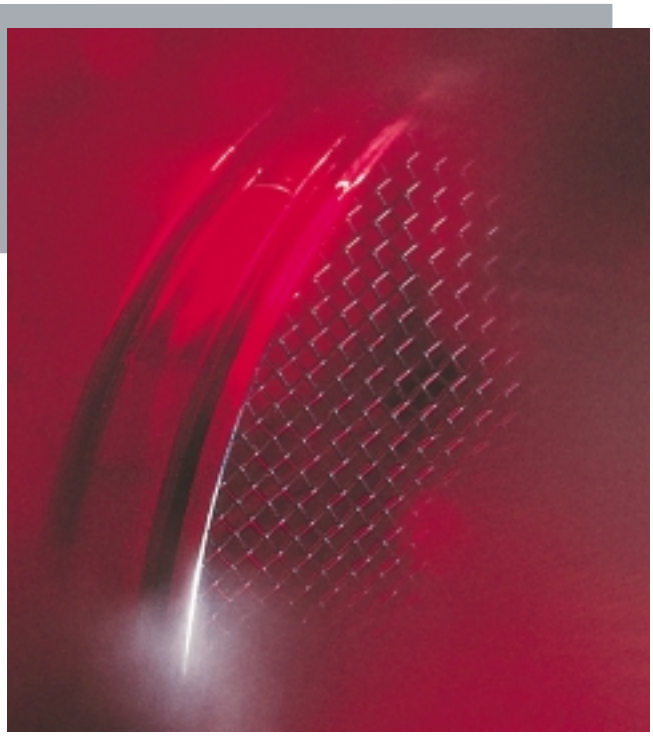
Heavy Duty Analytical Sieve Shaker

- Rapid sieving
- Large sieving quantities
- Test sieves up to 450 mm Ø

CE

TÜV CERT DIN EN ISO 9001

Heavy Duty Analytical Sieve Shaker “analysette 18“



Field of application

The "analysette 18" is primarily used for particle size analysis and grading of coarse-grained materials. The maximum feed quantity of 25 kg for sieving material and sieve stack means it can also be used in pilot plant production or in test series for larger quantities.

It is used wherever manual sieving is replaced by mechanical sieving in order to lower costs or achieve greater reproducibility. A maximum sample quantity of up to 6 kg can be processed in the measuring range 63 µm to 125 mm. Sieve process times are between 10 and 30 minutes.

Used with the evaluation programme "autosieve" means that sieving results are not only available more quickly but are also more reliable. Weighing as well as calculation errors for the individual sieve fractions are thus avoided, as the computer carries out the complete analysis.

Method of Operation

The "analysette 18" is a vibratory sieving machine that has been specially designed for processing large quantities of material which requires sieving. It essentially avoids the disadvantages of lighter sieving machines in which the sample and sieve weights can sometimes bias the sieve results.

Two unbalanced motors installed in phase opposition under exactly defined angles create optimum vibration of the test sieves mounted on the sieve plate. Both motors are precision braked at the end of the sieving time.

This design means that the sieved materials are accelerated vertically as well as horizontally, causing the material to change direction continuously, thus producing shorter sieving times and sharper separation results.

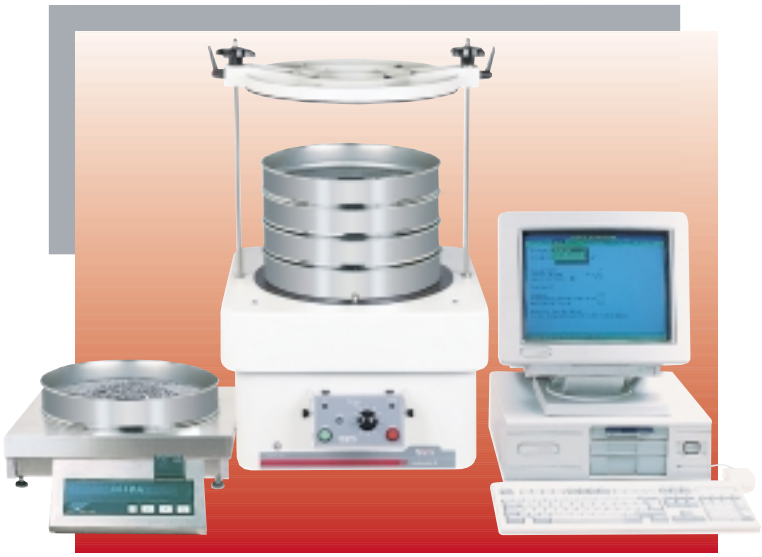
Design Characteristics

- Takes up to 7 sieves plus sieving pan and sieve cover
- Robust construction for heavy-duty operating conditions
- Two maintenance-free unbalanced motors
- Universal support plate and clamping device for 350, 400, 450 mm and/or 12, 16, 18 inch sieve diameter
- Quick locking and release mechanism for sieve clamping
- Simultaneous vertical and horizontal sieve vibratory movement
- Optimum transfer of energy to the sieve meshes
- Detachable control with 3 m mains lead
- Lockable control to protect against incorrect operation
- Stable operation through large, vibration-damping rubber feet fitted to the base
- Variable timer 5 to 60 minutes

Heavy Duty Analytical Sieve Shaker “analysette 18“

sieve stack

“analysette 18“ with computer and balance
for automatic sieve evaluation with „autosieve“



Advantages

- Large sieve material throughput
- Sieve diameters up to 450 mm can be used
- Sieves with mesh widths of 63 µm to 125 mm
- Material quantity up to 6 kg
- Short sieve times, exact cut-off points as a result of multi-dimensional movement processes
- Smooth, stable operation
- Low noise output
- Continuous operation possible
- Sieve set clamping device for constant conditions
- Protection against unauthorised use
- Sieves can be calibrated to ISO 9000
- 2 year guarantee

Accessories

Test sieves

A maximum of 7 test sieves (60 mm high) with collecting pan and lid can be used for one sieving process. The test sieves are available in accordance with ISO 3310-1 and ASTM E-11-1995.

Sieving aids

When sieving fine-grained materials, the use of vulkollan cubes can be beneficial.

Automatic evaluation programme “autosieve”

AUTOSIEVE for Windows™ is the professional software for automatic evaluation of sieve analysis. It is available as standard and extended version. Recording and management of sieve tare weights, monitoring of the balance and automatic computation of particle size distribution from the sieved fractions in conformity with pre-determined standards are basic functions already incorporated in the standard version. The extended version provides additional extensive facilities for further processing. The standard version is supplied together with the heavy duty analytical sieve shaker for test purposes for 180 days only. The extended version must be ordered separately.

Computer and accessories for evaluation programme “autosieve”

- standard PC
  1 x RS232 interface
- standard printer
- balance with bi-directional serial interface

Technical data

Measuring range	63 µm - 125 mm	Weight	net 91.5 kg, gross 128.5 kg
Sample quantity	up to 6 kg	Dimensions w x d x h	58 x 58 x 38.5 cm
Measuring time	approx. 5 - 60 mins.	Packing Details	1 case 76 x 76 x 76 cm
Electrical Details	230 V/1~, 50 Hz, 480 Watt 115 V/1~, 60 Hz, 290 Watt		

Ordering data

Order no.	Description	For rapid fax quotation tick here
18.2020.00	**Heavy Duty Analytical Sieve Shaker "analysette 18" without test sieves and sieve pan, incl. tensioning, sieve cover and control and evaluation programme AUTOSIEVE for Windows™ standard version for test purposes for 180 days only** for 230 V/1~, 50 Hz	
18.2010.00	for 115 V/1~, 60 Hz	
37.1000.01	**Accessories for analytical sieves 400 mm dia.** Sieving pan	
37.0010.16	Replacement seal ring NBR for test sieves 400 mm dia.	
37.0200.16	**Sieving aids** 1 vulkollan cube (10 cubes per sieve)	
	Analytical sieves Frame and woven mesh of stainless steel 400 mm diameter, useful height 60 mm	

Order no. ISO 3310-1	ISO 3310-1 mesh width	ASTM E-11-1995	Order no. ISO 3310-1	ISO 3310-1 mesh width	ASTM E-11-1995
34.0040.02•	125 mm		34.3000.02	1.25 mm	~ no. 16 = 1.18 mm
34.0060.02•	90 mm		34.3100.02	1.12 mm	
34.0000.02•	63 mm		34.3200.02•	1 mm	≙ no. 18 = 1 mm
34.0080.02•	45 mm		34.3300.02	900 µm	
34.0100.02•	31.5 mm		34.3400.02	800 µm	~ no. 20 = 0.85 mm
34.0200.02	25 mm	≙ 1" = 25 mm	34.3500.02•	710 µm	≙ no. 25 = 0.71 mm
34.0300.02•	22.4 mm	≙ 7/8" = 22.4 mm	34.3600.02	630 µm	~ no. 30 = 0.6 mm
34.0400.02	20 mm		34.3700.02	560 µm	
34.0600.02	18 mm	~ 3/4" = 19 mm	34.3800.02•	500 µm	≙ no. 35 = 0.5 mm
34.0800.02•	16 mm	≙ 5/8" = 16 mm	34.3900.02	450 µm	
34.0900.02	14 mm	~ 0.53" = 13.2 mm	34.4000.02	400 µm	~ no. 40 = 0.425 mm
34.1000.02	12.5 mm	~ 1/2" = 12.5 mm	34.4100.02•	355 µm	≙ no. 45 = 0.355 mm
34.1100.02•	11.2 mm	≙ 7/16" = 11.2 mm	34.4200.02	315 µm	~ no. 50 = 0.3 mm
34.1200.02	10 mm	~ 3/8" = 9.5 mm	34.4300.02	280 µm	
34.1300.02	9 mm		34.4400.02•	250 µm	≙ no. 60 = 0.25 mm
34.1400.02•	8 mm	≙ 5/16" = 8 mm	34.4500.02	224 µm	
34.1500.02	7.1 mm	~ 0.265" = 6.7 mm	34.4600.02	200 µm	~ no. 70 = 0.212 mm
34.1600.02	6.3 mm	≙ 1/4" = 6.3 mm	34.4700.02•	180 µm	≙ no. 80 = 0.18 mm
34.1700.02•	5.6 mm	~ no. 3 1/2 = 5.6 mm	34.4800.02	160 µm	~ no. 100 = 0.15 mm
34.1800.02	5 mm	~ no. 4 = 4.75 mm	34.4900.02	140 µm	
34.2000.02•	4 mm	≙ no. 5 = 4 mm	34.5000.02•	125 µm	≙ no. 120 = 0.125 mm
34.2100.02	3.55 mm	≙ no. 6 = 3.35 mm	34.5100.02	112 µm	
34.2200.02	3.15 mm		34.5200.02	100 µm	~ no. 140 = 0.106 mm
34.2300.02•	2.8 mm	≙ no. 7 = 2.8 mm	34.5400.02•	90 µm	≙ no. 170 = 0.09 mm
34.2400.02	2.5 mm	~ no. 8 = 2.36 mm	34.5600.02	80 µm	
34.2600.02•	2 mm	≙ no. 10 = 2 mm	34.5800.02	71 µm	~ no. 200 = 0.075 mm
34.2700.02	1.8 mm		34.6000.02•	63 µm	≙ no. 230 = 0.063 mm
34.2800.02	1.6 mm	~ no. 12 = 1.7 mm			
34.2900.02•	1.4 mm	≙ no. 14 = 1.4 mm	• = ISO (standard international)		

	Analytical sieves and sieving accessories in other diameters and mesh widths on request. All above mesh widths are also available as analytical sieves with 200 mm/8" dia.	
	Accessories for automatic evaluation of sieve analysis **Control and evaluation programme AUTOSIEVE for Windows™ available as standard and extended version** The standard version is delivered together with the heavy duty analytical sieve shaker for test purposes limited for 180 days. The extended version must be ordered separately. Request detailed brochure!	
	Laboratory analysis balance, computer, colour ink-jet printer and laser printer on request.	

FRITSCH GmbH · Industriestrasse 8 · D-55743 Idar-Oberstein
Tel.: (0) 67 84 / 70-0 · Fax: (0) 67 84 / 70-11 · E-Mail: Info@FRITSCH.de · Internet: http://www.FRITSCH.de