



You will return to the contents of P1 SOIL by clicking the pictogram

GENERAL LABORATORY EQUIPMENT

P1.96

For soil research in the laboratory a number of quality instruments are included in the program.

memorized in two separate stores. The balance is battery fed.

Weighing soil samples

98.01.03 Mechanical balance

A sturdy mechanical balance for weighing of (soil) samples. Using the adjustable weights it is possible to weigh up to 610 grams. By using the extra weights the maximum weighing capacity can be extended to up to 2610 grams. The accuracy is 0.1 gram.

98.02.03 Portable electronic (field) balance

The portable electronic balance with digital reading allows for accurate weighing in the field. The weighing capacity is 320 gram with an accuracy of 0.1 gram. The balance with hinged cover is highly protected against all kinds of pressure. The wallet-size can be conveniently kept in a jacket pocket. Nett-total weighing is possible: weight of tare-cup and weight of components are

98.02.04 Electronic balance, capacity 2000 g

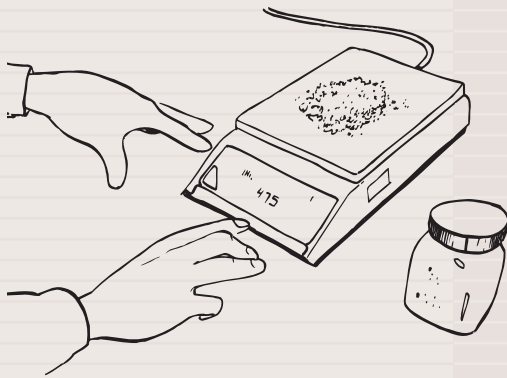
98.02.08 Idem, capacity 4000 g

Electronic, battery operated balances with a capacity of resp. 2000 and 4000 g and an accuracy of resp. 0.1 g and 1 g. The housing is dust and splashwater proof (IP 54). The various functions of the balance can be controlled easily using the four menu buttons. To adjust the accuracy of the balances a built-in calibration program can be used. The balance has a stainless steel weighing plate of resp. 130x130 mm and 170 x 150 mm.

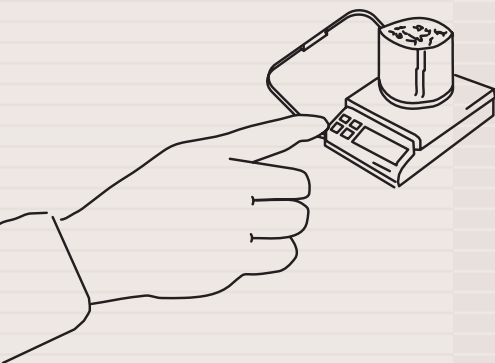
98.02.05 Electronic balance, cap. 12000 g

Electronic balance with a capacity of 12000 g and an accuracy of 1 g. Stainless steel weighing plate 230 x 180 mm. Dust and splashwater proof housing. With calibration program and easy to use 4-key pad. The balance is supplied with a mains adapter 230 V/50 Hz.

In the field as well as in the laboratory the sample can be weighed accurately.



The sample is weighed using the portable electronic balance.



Mechanical balance



Electronic balance capacity 4000 g



Portable field balance



Electronic balance capacity 12000 g

GENERAL LABORATORY EQUIPMENT



Sample preparation

98.22.01 Soil crusher

A machine for the pulverisation of soft, halfhard and brittle materials (hardness of up to 6 Mohs).

The maximum grain-size of the material is 15 mm.

The machine is fitted with a cast iron grinding section with quick release door lock.

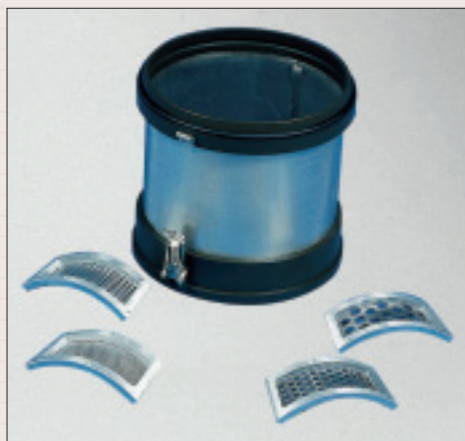
The ground material is caught in a cast iron tray.

Depending on the feed material and the bottom sieve used a capacity of between 0.05 and 80 kg per hour can be realized. The reduction of between 0.07 to 8 mm also depends on the feed material and the bottom sieve applied. The final fineness always is smaller (approximately 70%) than the holes in the sieve used.

A safety button prevents that the apparatus can be switched on when opened. The stable and maintenance free design and the fact that the grinding section can be replaced guarantee a long life. The program includes bottom sieves with holes with various diameters.



Soil crusher



Sieves for soil crusher

98.23 Soil stirrer

Soil stirring device for the mixing of soil/water solutions using an electrically powered fourpart blade, 230 V - 50 Hz.

The number of rotations can be set either on 10.000, 14.000 or 17.000 rotations per minute.

The apparatus is fitted with an automatic start/stop function.

The engine is placed in a rubber support reducing noise and vibrations to a minimum.

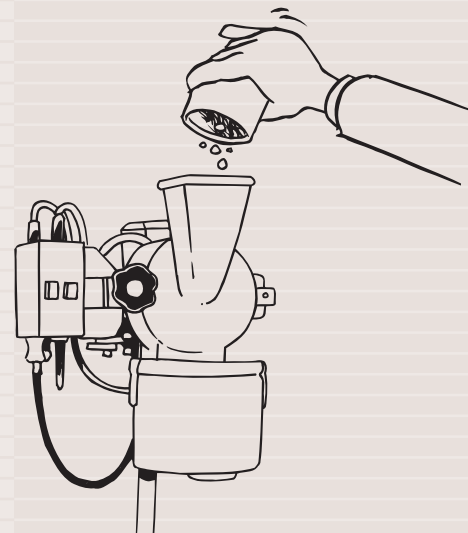
The soil stirring apparatus is supplied inclusive a mixing beaker with a contents of 1 liter. Additional mixing beakers can be obtained separate.



Soil stirrer

P1.96

The sample is crushed in the soil crusher.





PARTS LIST

Art.no.	Description	Qty. in set	Art.no.	Description	Qty. in set
General laboratory equipment (P1.96)					
	WEIGHING OF SAMPLES Depending on the capacity a choice can be made between various mechanical and electronical balances.				
98.01.03	Mechanical balance, capacity 2610 g, readability 0.1 g, incl. attachment weight set		98.22.02.07	mesh size 1.5 mm Bottom sieve, stainless steel,	
98.02.03	Electronic pocket balance, capacity 320 gram, accuracy 0.1 gram. With 3 batteries of 1.5 V. Dimensions weighing plate 80x70 mm.		98.22.02.08	mesh size 2 mm Bottom sieve, stainless steel,	
98.02.04	Electronic balance, capacity 2000 g, readability 0.1 g, with mains adapter (excl. 9 V battery). Dimensions weighing plate 130x130 mm. Incl. protective cover and adjusting weight.		98.22.02.09	mesh size 3 mm Bottom sieve, stainless steel,	
98.02.08	Electronic balance, capacity 4000 gram, accuracy 1 gram, with mains adapter 230 V (excl. 9 V battery). Dimensions weighing plate 170x150 mm. Incl. protective cover and adjusting weight.		98.22.02.10	mesh size 4 mm Bottom sieve, stainless steel,	
98.02.05	Electronic balance, Capacity 12000 g, readability 1 g, mains adaptor 230V, battery 9V (not standard included). Dimension stainless steel platform 230x180 mm. Incl. protective cover		98.22.02.11	mesh size 5 mm Bottom sieve, stainless steel,	
	SAMPLE PREPARATION		98.22.02.12	mesh size 6 mm Bottom sieve, stainless steel,	
	For the pulverisation of soft, half-hard and brittle samples we supply a soil crusher, which is standard equipped with a 2 mm bottom sieve.		98.22.02.13	mesh size 8 mm Bottom sieve, stainless steel,	
98.22.01	Soil crusher, cast iron housing, complete with bottom sieve (2 mm) and collecting receptacle (5 l) with filter tube, with quick-action lock for grinding chamber door, 230V-50Hz			mesh size 10 mm	
	Sieves with holes with various Ø:			If the soil crusher is not installed on a stable table, (solitary installation), a special under frame is required.	
98.22.02.01	Bottom sieve, stainless steel, mesh size 0.2 mm		98.22.03	Underframe for soil crusher To mix soil/water solutions (e.g. for pipette of hydrometer-method)	
98.22.02.02	Bottom sieve, stainless steel, mesh size 0.25 mm		98.23	Soil stirrer, revolution adjustable in 10000, 14000 or 17000 rpm, 220V 50Hz., incl. beaker with content 1 liter.	
98.22.02.03	Bottom sieve, stainless steel, mesh size 0.5 mm			Spare part for soil stirrer:	
98.22.02.04	Bottom sieve, stainless steel, mesh size 0.75 mm		98.23.01	Beaker for soil stirrer	
98.22.02.05	Bottom sieve, stainless steel, mesh size 1 mm				
98.22.02.06	Bottom sieve, stainless steel,				