Ordering information

Vibratory Sieve Shaker SS200		
Item No.	**weight(kg)**	
24.869.0001	34.00	Vibratory Sieve Shaker SS200 230V,50Hz
01.869.0001	2.10	Clamping device "standard" for 100-203mm ¢ test sieves
01.869.0002	2.70	Clamping device "comfort" for 100-203mm ¢ test sieves
		Clamping device
01.869.0001	2.00	standard clamping device
01.869.0002	2.70	comfort clamping device
		collecting pan
01.869.0003	0.50	collecting pan in stainless steel, ¢200m
01.869.0004	0.50	collecting pan in stainless steel, 8"
Rotary Sample Divider RSD100		
Item No.	**weight(kg)**	
		RSD100 complete unit , incl dividing head with 8 outlets, VF100 and 10 sample bottles 250ml
24.866.0001	35.00	RSD 100 complete unit, 220-240 V，50 Hz；
02.866.0001	4.50	Sample bottles, 250ml, 10pieces
Ultrasonic baths		
Item No.	**weight(kg)**	
24.870.0001	7.00	DTA 27L automatic ultrasonic baths
		incl:two module, automatic and manual ,ABS housing with anti-corrosion,plastic basket, staniless steel inlet
		tank size：304W X 504L X 280H 27L; Power：400W
24.871.0001	7.00	DTC 8 semi-automatic ultrasonic baths
		incl:semi- automatic ,feed water in manual,automatic discharges water,ABS housing with anti-corrosion,plastic basket, staniless steel inlet
		tank size：330W X 220L X 110H 8L; Power:200W
VF100		
Item No.	**weight(kg)**	
		VF100-75/40 compelte unit,incl:75/40MM chute,2.8L Hopper and stand
24.878.0001	11.50	VF 100-75/40 ， 220-240 V, 50 Hz
Sample Splitter SD 6.5 & SD 12.5		
Item No.	**weight(kg)**	
		incl 3 collecting bucket 1.5itres of SS, dividing head
24.872.0001	3.50	Sample splitter SD 6.5，with 12 slots, 6.3 mm
24.872.0002	3.50	Sample splitter SD 12.5，with 18 slots, 12.5 mm
24.872.0003	0.20	Collecting bucket 1.5L
24.872.0004	22.00	Sample splitter SD 25，with 16 slots, 25 mm
24.872.0005	22.00	Sample splitter SD 37.5，with 12 slots, 37.5 mm
24.872.0006	22.00	Sample splitter SD 50，with 8 slots, 50 mm
24.872.0007	22.00	Sample splitter SD 75，with 6 slots, 75 mm
24.872.0008	2.70	Collecting bucket 8 L;(for SD 25,SD 37.5, SD 50 and SD 75),1pc

GRINDER 格瑞德曼 Beijing Grinder Instrument Co., Ltd.

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GRINDER 格瑞德曼

Assisting
——for more perfect sample preparation

Assisting

Sieving, Dividing, feeding, cleaning

Provide rich variety of assisting solutions for laboratory, reduce the error of the sample preparation, help you achieve a higher standard and efficient analysis test work.

CONTENTS

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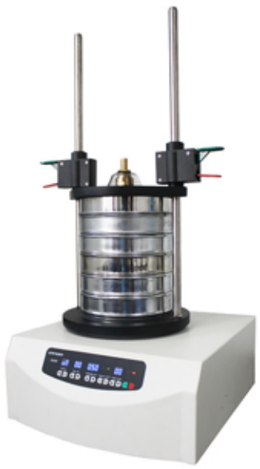
Free sample testing

Grinder company provide the best profession ,perfect sample preparation scheme and technical support for different sample from the customer.
Application laboratory can process your sample free and recommend the most suitable instrument for you .

Sieving shaker SS200

Sieving shaker SS200 is used to batch analyses the particle size and distribution of the soft, medium -hard, hard and brittle sample within a short time. The result is accurate and repeatable.Most parameters can be digital preset to perform dry sieving and wet sieving for samples. The devices are maintenance free and operation is very quiet.



Work principle

The model SS200 uses electromagnetic drive system which generates unique 3D motion pattern to throw samples , that make the samples distribute evenly on the whole sieve. Intermittent vibration can improve sieving effects and guarantee sieving hole are free from blocking.

Advantage

- Digital setting, the sieving time, amplitude can be preset, simple operation
- Unique sieving with 3D motion, high accuracy
- Dry, wet sieving
- Reliable, repeatable and high efficient sieving result
- Low noise, maintenance-free

Application field

Applies for all the inorganic and organic compounds include the sand, rocks, clay, granite, feldspar, coal, soil and all kinds of solid particles, such as powder, grains and seeds.

Technical data	SS200
Instrument size	450*400*850mm
Application field	separation, fractioning, particle size determination
Feed material	powders, bulk materials, suspensions
Measuring range*	20μm-25mm
Drive /sieving mode	electromagnetic drive
Amplitude adjustment range	0.3-3.0mm
Time setting	1-99min
Interval operation adjustment range	10～99s
sieve diameters	100mm/150mm/200mm/203mm(8")
Max. mass of sieve	3kg
Parameter combinations that can be stored	9programmes
Dry,wet sieving	yes
Motion of product to be sieved	3D motion

Sampler Divider RSD100

The RSD100 can evenly divide one sample to 6, 8, 10 uniform small samples. Each small sample has the same physical and chemical properties, and each can represent the attributes of the whole batch of samples. Currently, the divider is the most accurate sample dividing devices on the market.

Work principle

Samples enter a taper-shaped rotating pipe via the feed hopper of the vibratory feeder. The rotating pipe rotates at a constant speed; samples move to the channels under the effect of centrifugal force; and be collected inside the containers outside the above channels. The physical and chemical properties of the samples in all containers are the same.

Advantage

- Extremely high division accuracy
- The parameters is digital and can be preset
- Maintenance-free
- Wide range of he sample bottle volume
- Easy collection and cleaning

technical data	RSD100
Instrument size	475*460*640mm
Net weight	32Kg
Application	sample division, sample reduction
Application sample	Engineering/electronics, building materials, agriculture, pharmaceuticals, chemical/synthetic materials, metallurgical, geological/environment/resources recycling, glass/ceramics, biological, and food
Sample characteristic	Sample characteristic
Feed size	≤ 10 mm
Number of divisions	6、8、10
time	0-99hour，0-59min
Speed adjustable	80-120rpm
volume	100/250/500ml

Sample Splitters

When using the Splitters to separate samples, the samples can evenly fall to sample splitting slot. The sample splitting slots design in a cross way, such samples fall to the two underneath sample receiving container respectively. The quantity of samples can be halved by performing one sample separation. You can repeat such operations until the quantity of samples meets your test requirements.

It can be used for sample separations of all granulate, powder samples. It is made of stainless steel easy to operate, ergonomics design and easy cleaning.

technical data	SD 6.5	SD12.5	SD 25	SD 37.5	SD 50	SD 75
Instrument size	440*250*320mm					
Net weight	9Kg					
material	Stainless steel					
Slot size	6.3mm	12.5mm	25mm	37.5mm	50mm	75mm
Number of slots	12	18	16	12	8	6
Max feed size	approx.4mm	approx.8mm	approx.26mm	approx.25mm	approx.33mm	approx.50mm
Max charge	3L	3L	16L	16L	16L	16L

Vibratory Feeder VF100

Technical data	VF100
Instrument size	430*200*440mm
Net weight	approx.17 kg
Applications	feeding, conveying
Feed material	pourable bulk materials
Time setting	digital，1-99 min or continuous
Speed setting	0-50
Max feed size	12 mm
Hopper volume	2.2 L
Width of the chute	75/40 mm
Chute material	Stainless steel

Ultrasonic cleaner

The new generation of ultrasonic cleaners can provide diversified options for you: we can provide you with the most satisfied services as per your demands no matter for laboratories, industrial production lines or hospitals. The ultrasonic cleaners of Grinder concentrate on the functions, mute nature, operability and reliability of the products. Unlike conventional cleaning modes, such cleaners use the most advanced techniques worldwide as well as modern microcomputer control. They are the new innovation of ultrasonic cleaners.

Product features

- The streamline ABS material body is corrosion resistant, easy to clean.
- Full automatic water injection and discharge, multiple cleanings
- The large-screen touch menu makes the operation simpler and clearer.
- 304 biomedical stainless steel material.
- Low noise

Model	DTC-8	DTC-15	DTC-20
Technical data			
Instrument size	370w×520L×250H	370w×520L×330H	370w×520L×440H
Tank inner size	330W×220L×110H	330W×220L×200H	330W×220L×270H
Purge Tank volume	8L	15L	20L
Ultrasonic frequency	40kHz	40kHz	40kHz
Ultrasonic power	200W	200W	200W
Heat power	150W	150W	150W
Temperature setting	environment temperature~80℃, continuous	environment temperature~80℃, continuous	environment temperature~80℃, continuous
Time setting	0-480min, continuous	0-480min, continuous	0-480min, continuous
Power supply	220V~240V，50/60Hz	220V~240V，50/60Hz	220V~240V，50/60Hz
Purge Tank material	304 stainless steel	304 stainless steel	304 stainless steel

Intelligent graphite digester

Based on the principle of being practical, durable and user-friendly, the graphite digesters are produced with innovative technology. These digesters have features such as rapid temperature rise, temperature programming, remote control, complete digestion, efficient and convenient and so on. They are widely used for various industries such as foods, medicine, agriculture, forestry, environmental protection, disease control and chemical engineering and so forth. In addition, they can be used for digestion treatment of samples such s soils, feeds, plants, seeds, minerals and biological tissues and so on.

Product features

- Alarm design, guarantees safety
- Intelligent control, flexible and safe
- Graphite material, infrared heating
- Antiseptic design, stable and reliable
- Multiple configurations, flexible options
- Advanced algorithm, stable temperature
- Temperature programming for efficient digestion
- Dual sensors, accurate temperature measurement
- Digestion in normal pressure guarantees safe operation

B Series technical specification

Description	B160	B250	B500
Sample volume1	100ml x16 hole	100ml x25 hole	100ml x50 hole
Sample volume2	50mlx36 hole	50ml x49 hole	50ml x91 hole
temperature	indoor temperature~210°C	indoor temperature~210°C	indoor temperature~210°C
Temperature resolution	0.1°C	0.1°C	0.1°C
Temperature accuracy	±1°C，adjustable	±1°C，adjustable	±1°C，adjustable
Temperature uniformity	± 1.0°C (@95°C)	± 1.0°C (@95°C)	± 1.0°C (@95°C)
	± 2.0°C (@195°C)	± 2.0°C (@195°C)	± 2.0°C (@195°C)
	± 0.1°C(@95°C)	± 0.1°C(@95°C)	± 0.1°C(@95°C)
temperature increasing rate	± 0.2°C(@195°C)	± 0.2°C(@195°C)	± 0.2°C(@195°C)
	10 °C/min，<95°C	10 °C/min，<95°C	10 °C/min，<95°C
	8 °C/min，<195°C	8 °C/min，<195°C	8 °C/min，<195°C

BH Series technical specification

Description	BH160	BH250	BH500
Sample volume1	100ml x16 hole	100ml x25 hole	100ml x50 hole
Sample volume2	50mlx36 hole	50ml x49 hole	50ml x91 hole
temperature	indoor temperature~450°C	indoor temperature~450°C	indoor temperature~450°C
Temperature resolution	0.1°C	0.1°C	0.1°C
Temperature accuracy	±1°C，adjustable	±1°C，adjustable	±1°C，adjustable
Temperature uniformity	± 1.0°C (@95°C)	± 1.0°C (@95°C)	± 1.0°C (@95°C)
	± 2.0°C (@195°C)	± 2.0°C (@195°C)	± 2.0°C (@195°C)
	± 3.0°C (@395°C)	± 3.0°C (@395°C)	± 3.0°C (@395°C)
stability	± 0.1°C(@95°C)	± 0.1°C(@95°C)	± 0.1°C(@95°C)
	± 0.2°C(@195°C)	± 0.2°C(@195°C)	± 0.2°C(@195°C)
	± 0.5°C(@395°C)	± 0.5°C(@395°C)	± 0.5°C(@395°C)
temperature increasing rate	10 °C/min，<95°C	10 °C/min，<95°C	10 °C/min，<95°C
	8 °C/min，<195°C	8 °C/min，<195°C	8 °C/min，<195°C
	5 °C/min，<395°C	5 °C/min，<395°C	5 °C/min，<395°C