

Sample Preparation in the Laboratory

JAW CRUSHER - EB

JAW CRUSHER - EB

With our various sizes of jaw crushers, we are sure to have the right model for your application.



In the jaw crusher, comminution takes place in a wedge-shaped crushing chamber between one stationary and one moving crushing jaw. Our jaw crushers deliver:

◆ High final fineness of up to 90% < 1 mm*¹⁾
depending on the size of the crusher, the material, and the crushing gap set, it is possible to achieve comminution ratios of up to 1:200.

◆ A stationary crushing jaw, which is designed like a door
this allows the crushing chamber to be opened quickly and without tools for purposes of cleaning and full inspection,
making it possible to ensure that no carryover of material takes place.

Continuously adjustable crushing gap
 which can be read via a scale on the housing.
 The zero point of the scale can be readjusted when the crushing jaws
 are worn down.

◆ Reversible overload protection for size EB 100x80-L and above

Crushing jaws can be rotated 180°
 the service life of the crushing jaws can thus be doubled, as the main wear usually occurs in the area of the smallest crushing gap.

◆ Dust extractor connection
 via a connection flange in the tamper-proof feed chute.

◆ Low-maintenance and lubricant contamination-free comminution

with the sealed and lifetime lubricated bearings up to size EB 200x125-L.

◆ Low-contamination comminution with crushing jaws made from high-carbon cast steel, stainless steel, tungsten carbide or zirconium oxide.



EB 200x125-L

If you would like to save a preparation step during sample preparation, our **jaw crushers with integrated dividers** are ideally suited for this purpose:

Innovative app control

- Standard Operating Procedures (SOP)
- Display showing the gap width setting
- Accessing the operating instructions
- Direct spare parts inquiry
- Sample/machine data exportable in csv format
- Update-friendly app and firmware

◆ The rotary table with 5 collecting boxes

for dividing the sample quantity into 3x 1:4 and 2x 1:8



If you have any additional requirements, e.g. a base frame that can be picked up with a pallet truck, continuous material feed, ...please contact us.

Technical data

Jaw crusher		EB 50x40-L	EB 100x80-L	EB 150x100-L	EB 200x125-L	EB 300x250-L
Dimensions with door closed (W×H×D)	mm	325 × 630 × 620	470 × 951 × 773	615 × 1150 × 938	663 × 1340 × 1142	972 × 1874 × 1717
Weight	kg	95	250	380	787	2255
Drive power	kW	1.1	2.2	4	7.5	18.5
Jaw width	mm	50 × 40	100 × 80	150 × 100	200 × 125	300 × 250
Stroke in discharge gap (min.)	mm	0.5	1.2	1.4	1.4	2.0
Discharge gap	mm	0 – 10	0 – 12	0 – 15	0 – 28	0 – 30
Max. feed unit size for individual infeed	mm	30	70	90	110	240
Throughput rate	kg/h	10 – 50	50 – 350	75 – 500	250 – 2000	400 – 3500
Collection container volume	dm³	0.5	5	9	20	33
Operating voltage		400 V, 3/N/PE, 50 Hz				

Jaw crusher with integrated divider		EB 100x80-TL	EB 150x100-TL	EB 200x125-TL
Dimensions (W \times H \times D)	mm	730 × 1315 × 978	730 × 1451 × 978	790 × 1696 × 1300
Weight	kg	445	550	1150
Drive power	kW	2.2 & 0.25	4 & 0.25	7.5 & 0.25
Collection container vol- ume, cumulative	dm³	7	7	12

The throughput rate depends on the size of the discharge gap, the bulk density and the comminution behavior of the crushed material.

*1) The final fineness obtained is largely determined by the discharge gap selected, the stroke and the comminution behavior of the material.

To achieve sufficient particle precision, the feed batch should be crushed for a period of at least 30 seconds. Depending on the machine type, the collection containers can only be partially filled. Subject to technical changes.

DOUBLE-ROLLER MILL - WS CONE CRUSHER - KM

The doubel-roller mills can be used to crush brittle materials such as ore, slag, glass, ceramics, battery materials, limestone, ... up to a Mohs hardness of approx. 8.5. Depending on the material and size of the crusher, comminution ratios of 1:2, ..., 1:5, max. up to approx. 1:20 can be realized.

Comminution mainly takes place by means of a pressure and shear stress, between two counter-rotating grinding rollers.

Our roller mills have:

◆ Innovative app control

- Standard Operating Procedures (SOP)
- Roller gap display
- Accessing the operating instructions
- Direct spare parts inquiry
- Sample/machine data exportable in csv format
- Update-friendly app and firmware

Continuously adjustable roller gap

One of the two rollers is fixed in position, while the second roller can be adjusted via a spindle. The roller gap setting is displayed via the app. The zero point can be reset accordingly when the rollers are worn.

Reversible overload protection

Spring packs give the moving roller the possibility to avoid damage in the event of comparatively small non-breakable materials.

◆ Easy cleaning and inspection of the crushing chamber

via the flap-open upper crusher housing

High force transmission to the moving grinding roller

by installation on a rocker, high compressive forces can be generated in the roller gap.

Dust extractor connection

in the feed hopper or below the rollers

◆ Low-contamination comminution with grinding rollers made from

cast steel, tungsten carbide or aluminum oxide



WS 250x150-L with open upper crusher housing



Cone crusher KM 65 with dividing device

As slow-running comminution machines, cone crushers are used e.g. when cubic particles need to be produced, or for crushing thermally sensitive products or very hard materials (corundum, ferrosilicon, ores).

Comminution is achieved by a shear stress between the slowly rotating crushing cone and the stationary outer grinding ring. In order to adjust the fineness of grind, the crushing gap between the crushing tools can be infinitely varied by rotating the feed hopper. Due to the toothing on the fine cone, final finenesses of max. < 2 mm can be achieved with the cone crusher.

The KM 65 cone crusher can optionally be equipped with a dividing device so that samples can be comminuted and divided in a single step during sample preparation in the laboratory.

A register can be used to set the continuously separated sample quantities to 1:2, 1:4, or 1:8. In order to ensure a long service life, the entire grinding mechanism is made of tungsten

carbide.



Crushing tool made from tungsten carbide

Technical data

Cone crusher			KM 65	KM 170
Diagramiana (MV.IIV.D)	without dividing device	mm	500 × 1270 × 435	1010 × 1680 × 750
Dimensions (W×H×D)	with dividing device	mm	710 × 1270 × 435	-
Weight	without dividing device	kg	120	650
vveignt	with dividing device	kg	130	-
Motor		kW	1.5	4.0
Feed material grain size		mm	25	25
Final fineness		mm	2 - 10	2 - 10
Throughput rate		kg/h	60	200
Operating voltage			400 V, 3/N	/PE, 50 Hz

The throughput rate depends on the size of the discharge gap, the bulk density and the comminution behavior of the crushed material. The final fineness obtained is largely determined by the discharge gap selected. Subject to technical changes

Technical data

Double-roller mill		WS 250x150-L	WS 400x200-L
Dimensions (W×H×D)	mm	1113 × 1368 × 676	1916 × 1547 × 950
Weight	kg	479	973
Drive power	kW	3	2 x 5.5
Grinding roller dimensions	mm	Ø 250 × 150	Ø 400 × 200
Discharge gap	mm	0.2 – 5	0.2 – 15
Max. feed material grain size	mm	12	20
Throughput rate	kg/h	50 – 2000	75 – 6000
Collection container volume	dm³	30	40
Operating voltage		400 V, 3/N	/PE, 50 Hz

The throughput rate depends on the size of the discharge gap, the bulk density and the comminution behavior of the crushed material. The final fineness obtained is largely determined by the discharge gap selected and the comminution behavior of the material. Subject to technical changes

The HM 1-L hammer mill was specially designed for use in and the requirements of the laboratory.

It is characterized in particular by:

◆ Preparation of large sample quantities of soft to medium-hard materials with a hardness of 2 - 5 Mohs

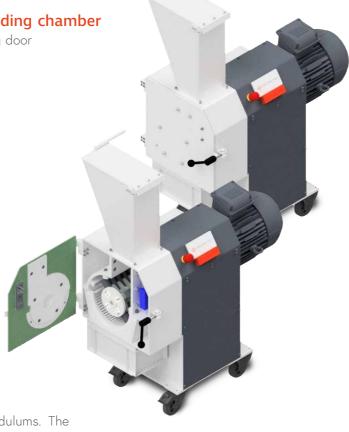
◆ Easy cleaning and inspection of the grinding chamber by means of tool-free opening of the front housing door

◆ Simple replacement of the grating basket via the hinged front housing door

 Variable rotor speed thanks to integrated frequency inverter

- ◆ Dust extractor connection
- ◆ Innovative app control
- Standard Operating Procedures (SOP)
- Accessing the operating instructions
- ◆ Direct spare parts inquiry
- Sample/machine data exportable in csv format
- ◆ Update-friendly app and firmware

Comminution in the hammer mill is performed by a high-speed rotor, with hammers mounted on pendulums. The material is subjected to impact and impingement stress in the area of the hammers and the grid basket. The crushed material remains in the grinding chamber until it can pass through the discharge grid basket. The gap width between the grate bars in the discharge grid basket thus largely determines the final fineness of the crushed material.



HM 1-L with closed/open front housing door

Technical data

Hammer mill		HM 1-L
Dimensions (W×H×D)	mm	460 × 1222 × 991
Weight	kg	290
Motor	kW	5.5
Feed material grain size (max.)	mm	50
Discharge grain size	mm	2 - 30
Throughput rate (at 10 mm gap width)	mm	1000
Container volume	dm³	approx. 10
Operating voltage		400 V, 3/N/PE, 50 Hz

The throughput rate depends on the gap width of the grating basket, the bulk density and the comminution behavior of the crushed material.

Subject to technical changes.



UM 150 multi-purpose mill

The UM 150 multi-purpose mill is used for fine grinding of metered feed quantities of dry, brittle, medium-hard materials < 15 mm up to a Mohs hardness of approx.

6. The comminution effect is based on impact, impingement and shear stress caused between the rapidly rotating rotor and the toothed chamber liner.

The feed material is crushed until it can pass through the slotted screen insert with the extraction air. This avoids over-crushing of

the fine material once it is already crushed. The crushed material transported away with the extraction air is then separated into a sample collection bottle via a cyclone.

Instead of the sample collection bottle, it is optionally possible to screw in a tube to allow installation of a larger vessel below the machine.

For purposes of inspection and cleaning of the machine, the housing cover of the machine can be opened for full viewing of the grinding chamber and cyclone.

The slotted screen inserts are decisive for the fineness of the end product, and when the cover is open these can be inserted into the corresponding cutout in the grinding chamber liner.

Technical data

	UM 150
mm	480 × 822 × 480
kg	120
kW	1.1
rpm	2845
μm	150 – 500
mm	15
kg/h	80
dm³	0.5
	400 V, 3/N/PE, 50 Hz
	kg kW rpm µm mm kg/h

The throughput rate depends on the size of the discharge gap, the bulk density and the comminution behavior of the crushed material. Subject to technical changes





DISC MILL - SBM VIBRATING MILL - GSM

The disc mill can be used for fine grinding of soft to hard materials with a Mohs hardness of up to 8.

Comminution in the disc mill takes place between two coarsely toothed grinding discs. One grinding disc is non-rotating, the other is set rotating by a geared motor, so that shear stress acts on the material to be crushed. The gap between the two grinding discs determines the fineness of the crushed material. The gap width between the two grinding discs can be reproducibly adjusted by means of a setting wheel with an integrated scale, which adjusts the position of the non-rotating grinding disc. The crushed material is collected in a glass bottle located below the grinding discs.

The sound-insulating housing of the SBM series is hinged so that the grinding chamber can be opened for inspection/cleaning without the need for tools. The door is monitored by a safety sensor and prevents contact with the rotating grinding disc.

An optionally available industrial vacuum cleaner can be connected via a port in the housing, and is switched on via a socket installed in the rear wall of the housing.

For larger sample volumes or continuous operation, the glass bottle can be replaced by an adapter with a hose connection, which is available as an accessory.

The grinding discs are available made from cast steel, zirconium oxide or tungsten carbide.



Vibrating mill GSM 06

Because the grinding barrels have been kept interchangeable, it is possible to select the material of the grinding barrels (steel and ceramic) according to requirements in order to largely eliminate cross-contamination. The user-friendly grinding barrels are clamped in place using quick-release fasteners.

The oscillating frame and the maintenance-free unbalance motor are supported on springs and housed in an attractive sound-insulated housing. The ballast mass installed in the housing ensures a secure footing and that the machine runs smoothly.

The machine is operated via a clearly structured and labeled keypad installed in the hinged housing cover, with functions for On/Off and grinding time settings.

The GSM 06 is a vibrating vessel mill used for fine and ultra-fine grinding of brittle and fibrous materials.

The comminution effect is based on a percussive and frictional stress, which is created by means of two grinding barrels set vibrating while filled with freely moving grinding media.

Due to the movement of the grinding media within the barrels, comminution and intensive homogenization take place simultaneously.

The material grinding can be dry or in a liquid, and the size and type of the grinding media are the key factors in determining the fineness achieved

The feed material grain size should typically be smaller than 2 mm. Depending on the material, the final fineness achieved can be as low as $<1\mu$ m.



Steel and ceramic milling vessel with grinding media

Technical data

Vibrating mill			GSM 06
Dimensions (W×H×D)		mm	570 × 374 × 504
Weight		kg	65
Grinding barrels volume	Total volume	1	2×1
	Useful capacity	1	2 × 0.3
Vibration frequency		rpm	1500
Vibration amplitude		mm	0 - 6
Drive power		kW	0.19
Operating voltage		400 V, 3/N	N/PE, 50 Hz
	Subject to technic	cal changes.	

Technical data

Disc mill		SBM 200
Dimensions (W×H×D)	mm	480 × 825 × 600
Weight	kg	135
Motor	kW	1.5
Crushing disc diameter	mm	200
Max. feed material grain size	mm	20
Discharge gap	mm	0.1 - 5.5
Throughput rate	kg/h	5 - 150
Collection container volume	dm³	0.5
Operating voltage		400 V, 3/N/PE, 50 Hz





Disc mill SBM 200

Sample preparation in a laboratory disc mill has been a tried and tested method for decades, especially in the fields of

- geology
- mineralogy
- metallurgy
- the glass/ceramics industry
- the construction materials industry
- soil/plan analysis
- power plants

The laboratory disc mill enables fast, loss-free and reproducible fine comminution and homogenization of the samples.

The grinding barrels can hold sample batches of 10 - $1000~\text{cm}^3$ and grind and homogenize the sample material to final finenesses of up to < $40~\mu\text{m}^{*1}$) in a single step. Sample preparation with a laboratory disc mill is thus the ideal prerequisite for subsequent analysis using X-ray spectrometers, regardless of whether pressed tablets or melt tablets are produced from the ground samples.

*1) The fineness achievable depends on the sample material, the grinding barrel, and the mill settings.

The grinding tools (stones/rings) in the grinding barrel are set into a rolling impact motion by means of a circular oscillation.

This motion achieves very high forces, which rapidly re-





Available grinding barrels

Material	Useful capacity in cm3
Chrome steel	10 50 100 250 500 1000 cont.
Tungsten carbide	10 20 50 100 250 cont.
Zirconium oxide	100 250
Agate	50 100

Now with:

Innovative app control

- Standard Operating Procedures (SOP)
- Variable speed in the range 700 1200 rpm
- Variable grinding duration
- Accessing the operating instructions
- Direct spare parts inquiry
- Sample/machine data exportable in csv format
- Update-friendly app and firmware
- Closed, sound-insulated housing
- Optional pneumatic closing device
- Space under the mill for lift truck
- Drive system with brake allows immediate opening of the housing flap.

The laboratory disc mill is available in different designs:

- with manual or pneumatic closing device
- in sound-insulated housing (TS design) or also free-standing (T design)
- in fully automatic versions, where the grinding barrel remains in the machine and only sample loading and removal is performed from outside.
- integrated in an automatic milling and pressing system (AMP), which in a single device combines all processes from pre-crushing dividing, fine grinding, and compression of the powder into a tablet.





Technical data

Laboratory disc mill		T 750	T 1000	TS 1200	TS 1200 - P
Dimensions (W×H×D)	mm	530 × 600 × 530		770 × 11	67 × 595
Weight	kg	150		3	60
Drive power	kW	0.5 0.85		0.	85
Operating voltage		400 V, 3/N/PE, 50 Hz 230 V, 1/N/PE, 50 Hz		I/PE, 50 Hz	
		Subject to tech	nical changes.		

AIR JET SIEVE - SLS

AIRJET SCREEN - SLS

The new SLS 200 for fast, precise and reproducible particle size analysis of all dry screened materials in the laboratory and in production monitoring.

With an analysis range from approx. 20 to 4000 $\mu m,$ for sample quantities of up to approx. 500 g, depending on material density.

The air-jet necessary for the exceptionally good dispersion, is generated by a vacuum cleaner and directed through the slotted nozzle rotating below the analytical sieve surface.

In order to reduce the screening time and to achieve more precise screening, the shape of the

slot nozzle has been lengthened and extended with an additional edge dispersion, which ensures a double loosening of the edge area with each revolution and thus a faster screening result compared to conventional nozzles.





The fines are drawn through the sieve openings into the container of the vacuum cleaner and collected. The vacuum required for this as well as the screening time can be preset via the app and can be saved using SOPs.

SLS 200 with glass cover

With the stainless steel housing and the stainless steel intake of the sieve, the unit can withstand even the toughest applications.

The air-jet sieve is simple and intuitive to operate via an app.

Innovative app control

- Standard Operating Procedures (SOP), formula management
- Display of grain size distributions (Rosin-Rammler and linear diagram)
- Coupling of analytical balances with optional RS 232 dongle
- Accessing the operating instructions

Automatic vacuum control

USB connection

Optional ionization unit

for avoiding/reducing agglomerate formation during screening, especially of plastics, due to electrostatic charging.

Optional air pre-warming

for avoiding/reducing water absorption of hygroscopic substances during screening.

Suitable accessories

- Vacuum cleaner
- Mobile supports with and without sound absorbing housing for the vacuum cleaner
- Cyclone
- Adapter set for holding sieves of diameter 400 mm, for screening larger quantities





Technical data

Air-jet sieve		SLS 200	
Dimensions (W×H×D)	mm	326 × 276 × 468	
Weight	kg	22	
Nominal diameter of test sieves	mm	200 (optional 100 & 400 mm)	
Measurement range	μm	20 - 4000	
Slot nozzle drive		AC gear motor, 22 rpm	
Operating voltag		110 V - 230 V, 1/N/PE, 50/60 Hz	
Mains power connection, vacuum cleaner connection exhausting socket and			

and air pre-warming device

ANALYTICAL SCREENING MACHINE - LAVIB

The new ASM 200 can now be controlled using the innovative "LabCo" app and offers the user new possibilities.

The ASM 200 is particularly appealing thanks to the following fea-

• Electromagnetic drive with three-dimensional screening motion,

in a vertical orientation. This motion ensures even distribution of the screened material on the surface of the sieve, and ensures fast separation thanks to the high proportion of vertical screening motion.

Stainless steel housing

Quick-release fasteners for simple sieve tower

For transport purposes, the sieve tower fixation can also be removed via two quick-release fasteners.

Plexiglas cover

Wet/dry screening

For wet screening, a cover with a nozzle and a drip tray with a drain tube are required.

Vibration sensor

For recording of vibration amplitude

Innovative app control

- Adjusting the vibration amplitude to the preset value
- Interval control
- Coupling of analytical balances with optional RS 232 dongle
- Display of grain size distributions (Rosin-Rammler and linear diagram)
- Standard Operating Procedures (SOP)



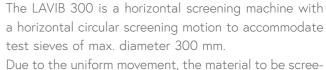
- Direct spare parts inquiry
- Sample/machine data exportable in

- Accessing the operating instructions

- csv format
- Update-friendly app and firmware

Technical data

Sieve Shaker		ASM 200		
Dimensions (W×H×D)	mm	463 × 816 × 488		
Weight	kg	35		
Test sieve diameter	mm	200		
Number of test sieves (internal height 25 mm)		11, optional 16 cover and collection vessel		
Measurement range	mm	0.020 – 25		
Vibration frequency	rpm	3000		
Vibration amplitude	mm	0 – 3.2		
Drive type		Electromagnet		
Operating voltage		230 V, 1/N/PE, 50 – 60 Hz		
Subject to technical changes.				



ned is guided over the screen in a circular motion that is very gentle on the material. The use of the horizontal screening machine is limited to dry screening.

The horizontal screening machine is mainly used for the classification of fibrous and platelet-like bulk materials, such as occur in the wood, spice, tobacco and plastics

industries, and in grain milling and brewing.

Depending on the application, the machine offers options for fixing the sieve tower or mounting it to remain freely movable on the drive plate.

In the latter case, the centrifugal forces bounce the sieves against the stop pieces, generating additional horizontal impacts on the sieve. These additional pulses shorten the screening time and reduce granule jams.

> The eccentric drive for the drive plate and the ballast mass are housed in an attrac-

tively designed housing, whose high mass ensures that the machine runs smoothly and remains stable.

The On/Off function and screening duration settings of the maintenance-free machine are controlled via a clearly structured and labeled keypad.

Technical data

Laboratory screening

machine LAVIB

LAVIB 300 SIEBTECHNIK TEMA

Analytical screening machine		LAVIB	
Dimensions (W×H×D)	mm	478 × 400 - 611 × 603	
Weight	kg	70	
Test sieve diameter	mm	100 – 300	
Number of test sieves (internal height 25 mm)		8 + cover and collection vessel	
Measurement range	mm	0.020 – 63	
Vibration frequency	rpm	270	
Oscillation diameter	mm	30	
Drive type		Geared motor	
Operating voltage		230 V, 1/N/PE, 50 Hz	
Subject to technical changes.			

LARGE ANALYTICAL SCREENING MACHINE - GAS

The ASM 400 is a gravity-screening machine with a predominantly vertical screening motion generated by a double unbalanced motor drive.

The mechanical parts, the drive system and the control electronics are housed in a sheet steel casing, mainly made from stainless steel.

Clamping the sieve set onto the vibrating table with quick-release fasteners is a simple process, and can be performed rapidly and conveniently. The Plexiglas cover allows monitoring of the screening process.

Wet screening can be performed with the ASM 400 through the use of special accessories, such as a special lid with a spray system and a collecting vessel with a drain.

The On/Off function and screening duration settings of the maintenance-free machine are controlled via a clearly structured and labeled keypad.

Technical data

Sieve Shaker		ASM 400		
Dimensions (W×H×D)	mm	780 × 1405 × 630		
Weight	kg	85		
Test sieves diameter	mm	400		
Number of test sieves (internal height 60 mm)		10 + cover and collection vessel		
Measurement range	mm	0.063 – 90		
Vibration frequency	rpm	3000		
Oscillation diameter	mm	Max. 3		
Drive type		2 unbalance motors		
Operating voltage		400 V, 3/N/PE, 50 Hz		
Subject to technical changes				

Sieve Shaker ASM 400

The large analytical screening machines are designed for those applications where grain sizes larger than 40 mm must be reliably determined. Since in test screening the screening material quantities increase with coarser grain size, this must be compensated for by the sieve surface area in order to achieve representative test screening. For this purpose, two machines with sieves of 500×500 mm and 1000×1000 mm are available for the respective tasks.

Both machines have

◆ A maintenance-free unbalance drive system which generates the high vibration amplitudes required via two unbalance motors.

- Test sieves in stainless steel
- Low residual vibration

thanks to unbalance motor brakes

Innovative app control

- Display showing vibration amplitude
- Coupling of analytical balances with optional RS 232 dongle
- Display of grain size distributions (Rosin-Rammler and linear diagram)
- Standard Operating Procedures (SOP)
- Accessing the operating instructions
- Direct spare parts inquiry
- Sample/machine data exportable in csv format
- Update-friendly app and firmware

The clamping rods

for the GAS 1000 can also optionally be designed as a lifting and tilting device. The sieve tower clamped in this device is lifted by a crane so that the lowest test sieve can be emptied by tilting.

The GAS 500 and GAS 1000 can also be used as a vibrating table without a sieve set.

Technical data

Large analytical screening machine		GAS 500	GAS 1000	
Dimensions (W×H (max. screening tower height) ×D)	mm	714 × 1910 × 701	1214 × 1206 × 1942	
Weight (without screening tower)	kg	160	360	
Test sieves area	mm	500 × 500	1000 × 1000	
Test sieve height	mm	80, 200	125, 200	
Max. sieving tower height	mm	1400	1400	
Max. load of vibrating table	kg	250	500	
Measurement range	mm	0.2 – 125	4 – 125	
Vibration frequency	rpm	1000	1000	
Oscillation diameter	mm	max. 3.7	max. 3.7	
Drive type		2 unbalance motors	2 unbalance motors	
Operating voltage		400 V, 3/N/PE, 50 Hz		
Subject to technical changes.				

SOLID TESTING DRUM - FPT DIVIDER

For abrasion and strength tests according to DIN, ISO and ASTM standards for coke, iron ore, sinter and HBI (e.g. ISO 556, ISO 3271, ISO 15967)

Due to the quantities handled, drum tests to determine the abrasion behavior or strength of bulk materials are very labor-intensive. Reduce the additional lifting workload of your employees with our automatic test drums.

Our test drums have

- Fully automatic operation of the drum process, including emptying the drum.
- Fully automatic opening and closing of the test drum via pneumatic cylinders.
- Dust and noise protection thanks to complete enclosure of the solid testing drum.
- Drive bars/brackets compliant with the requirements of the respective standard.
- Split stainless steel collection vessels on a mobile cart.
- Touchscreen control
- Preselection for number of revolutions, compliant with testing required under IRSID, MICUM, ...
- Preselection of speed

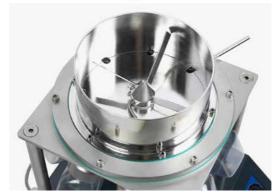




Technical data

Solid testing drum		FPT 500/1000-A	FPT 1000/1000-A	
Dimensions (W×H×D)	mm	1725 × 1652 × 1570	2232 × 1652 × 1570	
Weight	kg	975	1250	
Internal diameter of drum	mm	1000	1000	
Internal length of drum	mm	500	1000	
Drive power	kW	1.5	1.5	
Operating voltage		400 V, 3/N/PE, 50 Hz		
Subject to technical changes.				





The divider is suitable for representative division of dry and free-flowing bulk materials (< 2mm) into 8 sample containers. The sample to be divided is placed into the feed hopper, and is first mixed via a clearing arm after switching on the divider. After the discharge openings in the feed container have been opened, the sample material is distributed into the 8 screwed-in sample containers by means of a rotating clearing arm.

Your benefits:

- No dosing channel for sample infeed required!
- Mixing function in the feed hopper
- Adjustable rotation speed of the clearing arm

Technical data

Divider		VER 8/200		
Dimensions (W×H×D)	mm	260 × 360 × 260		
Weight	kg	18		
Feed quantity	cm ³	1500		
Sample container	cm ³	8 x 200		
Operating voltage		230 V, 1/N/PE, 50 – 60 Hz		
Subject to technical changes.				

LABORATORY SAMPLE SPLITTER

 Sample splitter
 10/10
 10/32

 Number of cells
 10
 32

 Cell width
 mm
 10
 10

 Ext.Dimensions
 mm
 325 × 250
 325 × 530

 Height
 mm
 370
 370

Sample split	ter	20/10	20/16	20/20
Number of cells	,	10	16	20
Cell width	mm	20	20	20
Ext.Dimensions	mm	325 × 340	325 × 485	325 × 565
Height	mm	370	370	370

Sample split	ter	40/10	40/16	40/20
Number of cells	,	10	16	20
Cell width	mm	40	40	40
Ext.Dimensions	mm	325 × 565	325 × 805	325 × 965
Height	mm	370	370	370

We also manufacture your sample splitters in custom dimensions.

Sample splitters for the simple manual division of bulk materials, provide two representative partial sample by means of alternating chutes. The split sample can continue to be halved and halved again by repeating the splitting process, achieving splitting results of 1/2n.

Benefits:

- Easy to clean
- Made entirely from stainless steel
- 3 collection vessels
- Mobile

The max. feed material grain size should be approx. 1/3 smaller than the cell width of the splitter. For higher standards of splitting accuracy and function, the max. grain size should be max. 1/3 of the cell width.

Do you need to split bulk materials with significantly coarser sizes and larger quantities? Then we have a solution here for your splitting problem!

Our brochure "Sampling and Sample Preparation" provides initial information on this.



One Solution. Worldwide.



SIEBTECHNIK TEMA provides more than 50 local support offices worldwide as well as main sites located in:

Mülheim an der Ruhr, Germany | Rijswijk / The Hague, The Netherlands | Madrid, Spain Daventry, Great Britain | Mundolsheim, France | Sydney & Perth, Australia | Cincinnati, USA Tianjin, China | Moscow, Russia

We are experts in the field of solid-liquid separation and the processing of bulk materials

Automation | Channel conveyors | Crushing & Milling Equipment | Control Screening Machines Decanter | Dryers | Laboratory Equipment | Pneumatic Tube Systems | Preparation Systems Process Equipment | Pulsator Jigs | Pusher Centrifuges | Sampling Systems | Screening Machines | Screen Worm Centrifuges | Sliding Centrifuges | Vibrating Centrifuges

