MEKHANOBR TEKHNIKA

LABORATORY EQUIPMENT

THE ESSENTIALS FOR YOUR LABORATORY

MEKHANOBR TEKHNIKA

EXPORT
TO 40 COUNTRIES

MORE THAN
150 TYPES
OF EQUIPMENT

2 000 INVENTIONS
AND PATENTS

3 SCIENTIFIC
DISCOVERIES

EN.MTSPB.COM

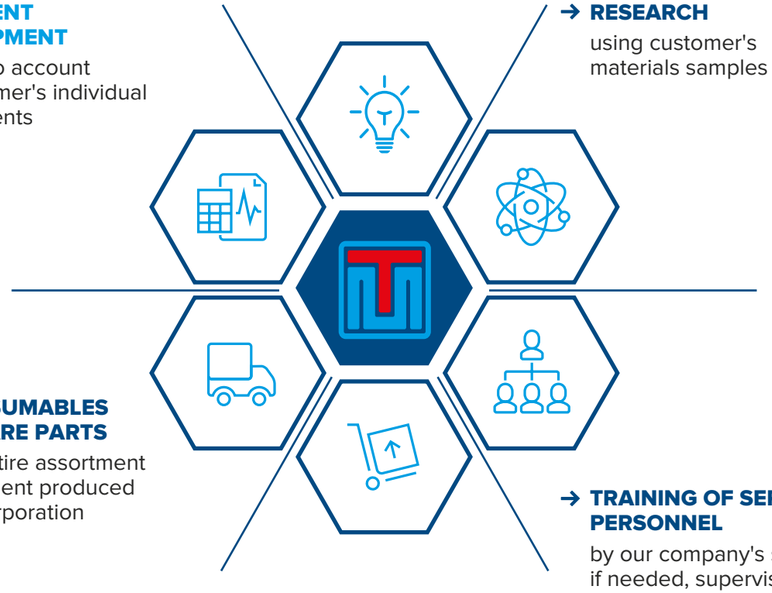
100 YEARS OF INNOVATIONS

The Mekhanobr-Tekhnika corporation develops, produces and supplies laboratory equipment for the crushing, grinding, size classification of solid materials, magnetic, electromagnetic and electrical separation, flotation, and gravity beneficiation of mineral and man-made materials, along with equipment for the variable delivery of loose materials and the separation of samples of dry materials and pulps.

OUR ADVANTAGES

→ **EQUIPMENT DEVELOPMENT**
taking into account the customer's individual requirements

→ **RESEARCH**
using customer's materials samples



→ **SUPPLY OF CONSUMABLES AND SPARE PARTS**
for the entire assortment of equipment produced by our corporation

→ **TRAINING OF SERVICE PERSONNEL**
by our company's specialists; if needed, supervision of the installation process and equipment launch

→ **DELIVERY OF MANUFACTURED EQUIPMENT**
to the warehouse or the customer's door throughout Russia, CIS countries, and far abroad

CONTENTS

1. CRUSHING EQUIPMENT

A full range of laboratory machines that work based on vibrating, attritioning, crushing, and impact forces, as well as combinations of these forces, for disintegration of crude ore and other types of solid materials.

« CONTENTS PAGE

LEGEND

- Mining industry
- Gold mining industry
- Metallurgy industry
- Powder metallurgy
- Construction materials industry
- Solid waste recycling
- Agriculture
- Chemical and pharmaceutical industry

EFFECTIVE MODELING

2JCS 100×200 JAW CRUSHER

2JCS 100×200

Designed for the grinding of brittle materials with a strength of up to 250 MPa, except for radioactive and highly explosive materials. The main advantage of the 2JCS crusher lies in its ability to imitate the distribution curve of crushed material generated by industrial-grade crushers.

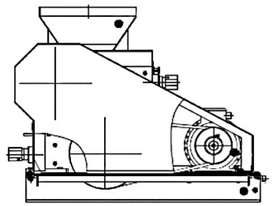
CHARACTERISTICS

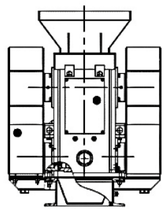
It facilitates transport of the material down the crushing chamber and applies shear and compression forces to the crushed material, making the crushing process more energy efficient. Recommended for the crushing of samples in geological research.

RECOMMENDED ADDITIONAL SET OF SPARE PARTS

- a set of jaw plates
- a set of cheek plates
- shear pin
- operating console

TECHNICAL SPECIFICATIONS	2JCS 100×200
Feed opening, **mm**	100×200
Feed size, **mm**, up to	90
Discharge opening, **mm**	2÷6
Product size, **mm**, up to 90%	
with minimum opening	0–2
with maximum opening	0–6
Capacity for the crushing of medium sized granite pieces, **kg/h**, no less than, with discharge opening width of 6 mm	200*
Drive power, **kW**	5,5
Overall dimensions, **mm**:	
length	1 100
width	650
height	840
Mass, **kg**	405





* Determined precisely by operating results

« CONTENTS PAGE

NEW PRODUCT

JC 60×100 M (JC 6M) LABORATORY JAW CRUSHER

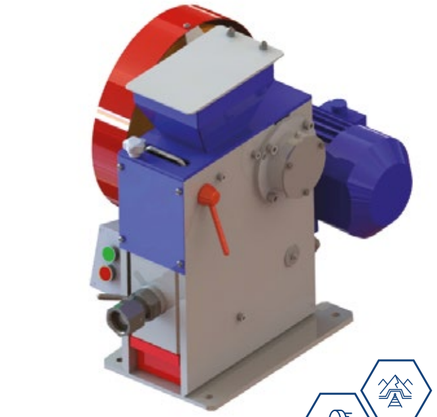
Designed for fine crushing of brittle materials of different strengths of up to 200 MPa, except for radioactive and highly explosive materials.

CHARACTERISTICS

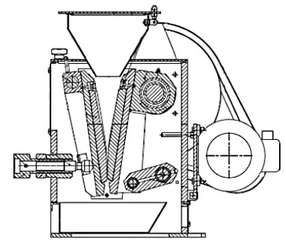
Notable for its simple design, reliability in operation and high repairability. This has made jaw crushers one of the most commonly used types of crushing equipment for many years.

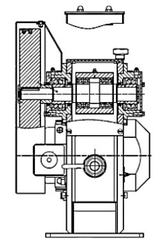
We modernized the classic construction of the JC 60×100 jaw crusher to make it even more convenient to operate:

- the frame has become more rigid, which has improved the crusher's main specifications
- the arrangement of the control system has been changed, which has made it easier to access and more convenient to use
- means have been provided for facilitating the cleaning of the crushing cavity.



JC 60×100 M (JC 6 M)





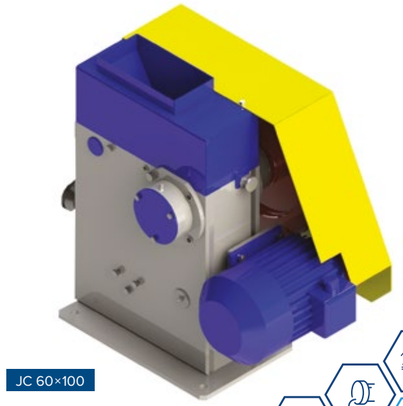
TECHNICAL SPECIFICATIONS	JC 60×100 M (JC 6 M)
Feed opening, **mm**	60×100
Feed size, **mm**, up to	50
Discharge opening, **mm**	1÷15
Product size d_{50}, **mm**, up to with minimum opening	2
Capacity for the crushing of medium sized granite pieces, **kg/h**, no less than, with discharge opening width of 10 mm	150
Drive power, **kW, rpm, V**	1,1, 1 500, ~380
Overall dimensions, **mm**, up to:	
length	655
width	330
height	570
Mass, **kg**, up to	141

STAND FOR CRUSHER JC 60×100 M

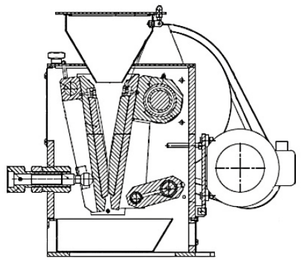
LEGEND

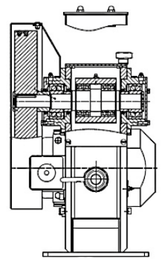
- Mining industry
- Gold mining industry
- Metallurgy industry
- Powder metallurgy
- Construction materials industry
- Solid waste recycling
- Agriculture
- Chemical and pharmaceutical industry

JAW CRUSHERS



JC 60×100





Laboratory jaw crushers and industrial jaw crushers of small sizes are designed for dry disintegration (mechanical destruction) of solid dry materials of medium and low strength (ore and non-metallic materials, construction materials, solid waste, etc.).

CHARACTERISTICS

Notable for their simple design, reliability in operation and high repairability, which has made them one of the most commonly used types of crushing equipment for many years.

RECOMMENDED ADDITIONAL SET OF SPARE PARTS

- a set of jaw plates
- a set of cheek plates
- shear pin
- operating console
- toggle plate

Depends on equipment size.

TECHNICAL SPECIFICATIONS	JC 60×100	JC 80×150	JC 100×200 type 1	JC 100×200 type 2	JC 120×200	JC 180×250
Feed opening, **mm**	60×100	70×145	100×200	100×200	120×200	180×250
Feed size, **mm**, up to	50	60	90	90	110	170
Discharge opening, **mm**	1÷15	1÷17	2÷15	2÷15	2÷25	5÷30
Product size with minimum opening, d_{50}, **mm**	2	4	2,5	5	8	10
Capacity, **kg/h,** up to*	200	500	350	800	1 000	9 000
Drive power, **kW**	1,1	1,5	2,2	2,2	3	7,5
Crushing of material of strength, **MPa**, up to	200	250	200	200	250	250
Overall dimensions, **mm**:						
length	650	700	860	860	1 490	1 800
width	340	430	500	500	600	775
height	595	560	610/1 300**	610/1 300**	910	1 295
Mass, **kg**	130	152	210/250**	210/250**	510	1 100

* Determined precisely by operating results
** With stand

« CONTENTS PAGE

KID® VIBRATING CONE CRUSHERS

Can function as a crusher or as a mill. Designed for the crushing of materials of strengths up to 300 MPa using the dry method or with a flow of water to the crushing chamber.

CHARACTERISTICS

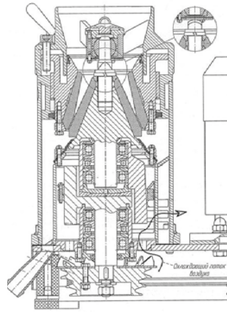
KID laboratory crushers successfully imitate the distribution curve of the fineness of crushed material generated by analogic industrial-grade crushers. Material size can be reduced by 5 to 10 times. In this way, the two stages of crushing or the stages of crushing and grinding can sometimes be substituted with one technological operation, or the average size of finely-ground material can be considerably reduced.

RECOMMENDED ADDITIONAL SET OF SPARE PARTS

- plates (movable/fixed)

KID-100

KID-100
ON A LABORATORY TABLE

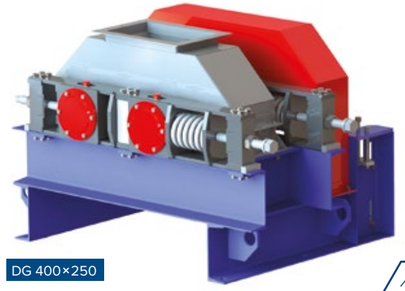


TECHNICAL SPECIFICATIONS	KID-60	KID-100
Crushing cone base diameter, **mm**	60	100
Feed size, **mm**, up to	5	10
Capacity, **kg/h**, up to	10	30
Drive power, **kW**	0,55	1,5
Overall dimensions, **mm**:		
length	350	479
width	230	203
height	380	411
Mass, **kg**	30	62

LEGEND

- Mining industry
- Gold mining industry
- Metallurgy industry
- Powder metallurgy
- Construction materials industry
- Solid waste recycling
- Agriculture
- Chemical and pharmaceutical industry

ROLLER CRUSHERS



DG 400×250

Designed for the crushing of mineral raw materials with compressive strength of up to 250 MPa for their preparation for analytic research or as part of semi-industrial installations (for example, for the crushing of synthetic abrasive materials).

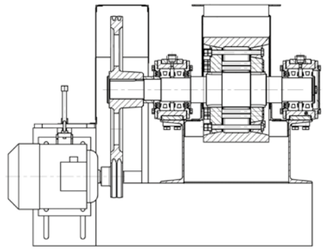
CHARACTERISTICS

These crushers allow the discharge opening to be closed up to its full contiguity.

RECOMMENDED ADDITIONAL SET OF SPARE PARTS

- olls
- bearings
- belts

Depends on equipment size.



DG 200×125 M

TECHNICAL SPECIFICATIONS	DG 200×125	DG 200×125 M	DG 400×250
Roll size, **mm**:			
diameter	200	200	400
length	125	125	250
Feed size, **mm**, up to	12	12	20
Discharge opening, **mm**	0,5÷8	0,5÷8	2÷12
Capacity, **t/h*** up to	0,8	0,8	15
Rolls, **rpm**	600	580	205
Drive power, **kW**	2×0,55**	2×1,1	2×3**
Overall dimensions, **mm**:			
length	640	720	1 500
width	465	740	1 200
height	790	790	920
Mass, **kg**	210	253	1 200

* Capacity depends on the discharge opening size and properties of the processed material
** 0.75 kW motors may also be installed

« CONTENTS PAGE

HUMMER CRUSHERS

Designed for the crushing of brittle and low abrasive materials as well as various fibrous materials, industrial and domestic waste, agricultural and similar materials.

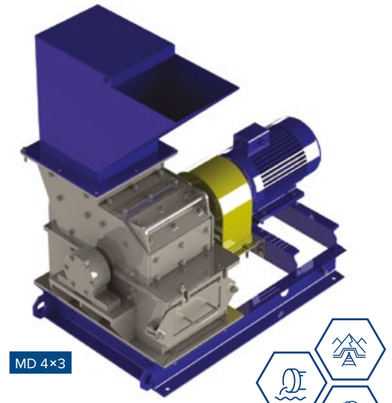
CHARACTERISTICS

Hummer crushers require accurate feed dosing to avoid rotor imbalance. They can be additionally equipped with fans for removal of the dust fraction, as well as with a cyclone.

RECOMMENDED ADDITIONAL SET OF SPARE PARTS

- a set of hammers
- a discharge grating,
- depending on the diameters of the openings
- operating console
- belts / petal couplings
- bearings

Depends on equipment size.



MD 4×3

MD 3×0,65

MD 3×2C

TECHNICAL SPECIFICATIONS	MD 3×0,65	MD 3×2	MD 3×2C	MD 4×3	MD 5×2	MD 5×2C
Rotor size, **mm**						
diameter	300	300	300	400	500	500
length	65	200	200	300	200	200
Feed size, **mm**, up to	30	75	75	100	100	100
Grid bar cell size, **mm**	2,5÷10	3÷20	3÷20	3÷16	5÷50	5÷50
Drive power, **kW**	3	4	4	7,5	11	11
Overall dimensions, **mm**:						
length	650	850	930	1 220	1 140	1 160
width	580	600	690	770	800	790
height	1 200	800	1 210	1 240	1 210	1 530
Mass, **kg**	75	160	194	510	310	310

LEGEND

- Mining industry
- Gold mining industry
- Metallurgy industry
- Powder metallurgy
- Construction materials industry
- Solid waste recycling
- Agriculture
- Chemical and pharmaceutical industry

BALL MILLS

MSL-50N

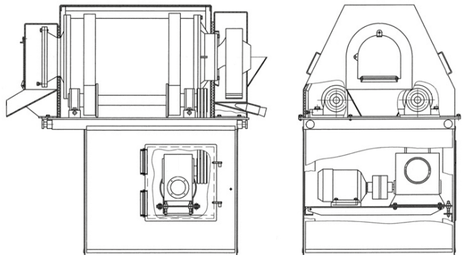
Designed for fine grinding of samples of different ore and material types in wet mode. Mekhanobr-Tekhnika REC produces and supplies laboratory ball mills with a drum volume of 1 to 50 liters.

To select the right type of equipment, it is essential to first determine the suitable milling mode – dry or wet – and choose the working mode – periodical or continuous.

Model	Dry milling	Wet milling	Periodical mode	Continuous mode
MSL-1		V	V	
MSL-7		V	V	
MSL-50N		V		V

CHARACTERISTICS

Laboratory ball mills with steel liners are machines traditionally used for the disintegration of solid materials.



TECHNICAL SPECIFICATIONS	MSL-50N (48 ML)	MSL-1 (62 ML)	MSL-7 (40 ML)
Drum volume, **l**	50	1	7
Drum, **rpm**	48–60	112	68
Feed size, **mm**, up to	8	3	6
Product size, **mm**	-0,074	-0,074	-0,074
Ball load, **kg**	120	1,6	15
Ball diameter, **mm**	20÷50	15÷20	15÷20
Drive power, **kW**	1,1	0,25	1,1
Overall dimensions, **mm**:			
length	1310	560	740
width	840	500	640
height	1 250	1 020	1 340
Mass, **kg**	550	60	155

MSL-1

« CONTENTS PAGE

CANTILEVER BALL MILLS

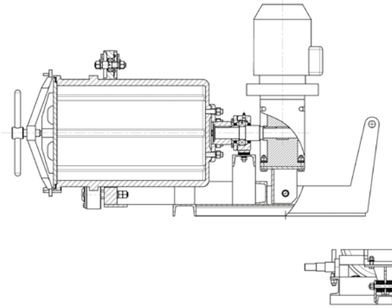
Designed for fine grinding of samples of various ores and non-metallic materials in dry and wet modes.

Model	Dry milling	Wet milling	Periodical mode	Continuous mode
MSL-14K	V	V	V	
MSL-22K	V	V	V	
MSL-50K	V	V	V	

RECOMMENDED ADDITIONAL SET OF SPARE PARTS

- balls of different types and sizes
- worm and worm-wheel
- bearings

Depends on equipment size.



MSL-50K

TECHNICAL SPECIFICATIONS	MSL-14K	MSL-22K* Bond Mill	MSL-50K
Drum volume, **l**	14	22	50
Feed size, **mm**, up to	6	6	6
Drum, **rpm**	71	71	45
Ball load, **kg**	27	50	120
Ball diameter, **mm**, up to	15÷20	10÷40	15÷40
Drive power, **kW**	0,75	1,5	2,2
Overall dimensions, **mm**:			
length	1 400	1 600	1 650
width	710	770	710
height	1 005	1 350	1 420
Mass, **kg**	153	200	295

* The ball mill of this type is designed for dry and wet milling of raw mineral materials in standardized conditions, mainly to supply data about the strength of the material, as per the internationally accepted Bond index, during the process of disintegration. Bond index determines energy expenses for obtaining the new post-grinding grain size grade. It is used for the calculation of expected performance indicators for the industrial mills

LEGEND

- Mining industry
- Gold mining industry
- Metallurgy industry
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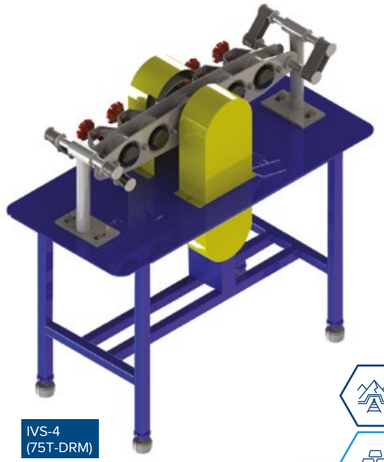
- Construction materials industry
- Solid waste recycling
- Agriculture
- Chemical and pharmaceutical industry

IVS-4 (75T-DRM) VIBRATING PULVERIZER



IVS-4 (75T-DRM)

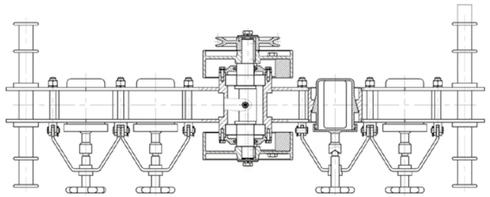
Designed for fine grinding of samples of brittle materials of various hardnesses and strengths in periodical mode.

CHARACTERISTICS

A comparatively light vibrating pulverizer of samples for chemical analysis.

RECOMMENDED ADDITIONAL SET OF SPARE PARTS

- a set of grinding equipment
- operating console
- a set of grinding equipment (tool alloy steel)
- a set of suspensions



TECHNICAL SPECIFICATIONS	IVS-4 (75T-DRM)
Feed size, **mm**, up to	3
Product size, **mm***	-0,050
Number of cups	4
Weighed sample in one cup, **g**	50
Drive power, **kW**	0,6
Overall dimensions, **mm**:	
length	1 230
width	570
height	1 180
Mass, **kg**	145

* Depends on pulverizing time

« CONTENTS PAGE

NEW PRODUCT

IVT-3 BOWL VIBRATING PULVERIZER

Designed for fine grinding of samples of brittle materials of various hardnesses and strengths in periodical mode.

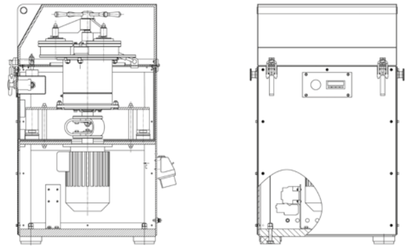
CHARACTERISTICS

A reliable and easy-to-use pulverizer of samples for later chemical analysis. The IVT-3 pulverizer has a dust-proof and noise-protective frame. It has a time relay installed.

RECOMMENDED ADDITIONAL SET OF SPARE PARTS

- a set of grinding equipment (structural steel)
- a set of grinding equipment (alloy steel)
- a set of grinding equipment (tool alloy steel or tool die steel)
- a set of shock absorbers

IVT-3



TECHNICAL SPECIFICATIONS	IVT-3
Number of cups	3
Feed size, **mm**, up to	4
Product size (depends on pulverizing time), **mm**	-0,050
Weighed sample in one cup, **g**, up to	50
Working body oscillation amplitude, **mm** (±10%), up to	6
Working body oscillation frequency, **Hz**, no less than	23,4
Drive power, **kW**	1,5
Overall dimensions, **mm**:	
length	680
width	620
height	960
Mass, **kg**	280

LEGEND

- Mining industry
- Gold mining industry
- Metallurgy industry
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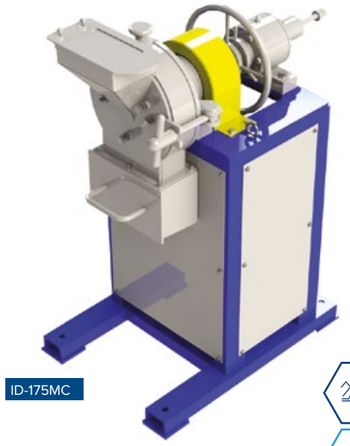
- Agriculture
- Chemical and pharmaceutical industry

DISK PULVERIZERS



ID-175MC

Designed for fine grinding of brittle materials of various hardnesses in continuous or periodical mode using the dry method.

CHARACTERISTICS

- Protection against the intrusion of uncrushable objects. If an uncrushable object enters the crushing zone, an axial force appears, which moves the discs aside and compresses the spring in the rotor's back bearing block. This makes it possible for uncrushable objects to enter the discharge zone, and prevents the pulverizer from jamming.
- Easier access to disks for cleaning.
- Accurate parallel alignment of the fixed and movable disks.

RECOMMENDED ADDITIONAL SET OF SPARE PARTS

- disks
- bearings

Depends on equipment size.

ID-65

ID-175

TECHNICAL SPECIFICATIONS	ID-65	ID-175	ID-175M	ID-175MC*	ID-250	ID-250M	ID-250MC*
Feed size, **mm**	2	6	6	6	12	12	12
Product size, **mm**	d_{50}<0,05	d_{50}<0,1	d_{50}<0,1	d_{50}<0,1	d_{50}<0,2	d_{50}<0,2	d_{50}<0,2
Opening size range, **mm**	0,05÷2	0,2÷5	0,2÷5	0,2÷5	0,25÷5	0,25÷5	0,25÷5
Capacity (depending on the opening size and properties of processed material), **kg/h**	0,6	30–100	30–100	30–100	50–300	50–300	50–300
Drive power, **kW**	0,37	1,5	1,5	1,5	5,5	5,5	5,5
Overall dimensions, **mm**:							
length	370	570	800	800	830	1 100	1 100
width	200	270	430	430	490	610	610
height	270	445	930	1 000	550	1 200	1 220
Mass, **kg**	19	80	120	120	195	330	330

* The operating chamber opens fully for cleaning

« CONTENTS PAGE

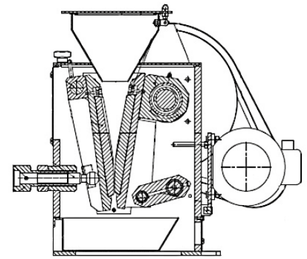
ADD CRUSHING/ SPLITTING UNITS

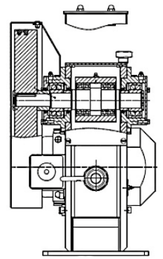
Designed for the crushing and splitting of rock and ore samples for their preparation for analytic and technological research. They allow for both the crushing and splitting of samples of rocks, ores, ceramics, refractory materials, and construction materials for their preparation for analytic research.

CHARACTERISTICS

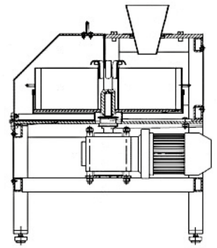
The units consist of a reliable laboratory jaw crusher of traditional type and an efficient separator for the crushed product.

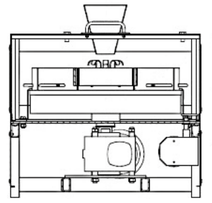
ADD 60×100





TECHNICAL SPECIFICATIONS	ADD 60×100	ADD 100×200
Feed opening, **mm**	60×100	100×200
Feed size, **mm**, up to	50	90
Discharge opening, **mm**, up to	1÷15	2÷15
Capacity, **kg/h** (depending on the material size) with opening width of 10 mm, up to	150	300
Drive power, **kW**		
of the crusher	1,1	2,2
of the separator	0,18	0,18
Total volume of all receptacle bins, **dm³**	10	10
Splitting grade	от 1/2 до 1/8	от 1/2 до 1/8
Overall dimensions, **mm**:		
length	550	850
width	580	620
height	1 200	1 230
Mass, **kg**	230	310





2. CLASSIFICATION EQUIPMENT

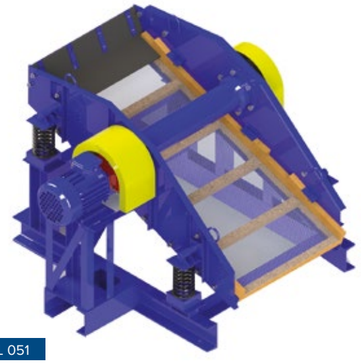
Highly efficient laboratory and semi-industrial orbital and straight line motion vibrating machines, designed for the sieving of loose materials and their classification by size.

« CONTENTS PAGE

LEGEND

- Mining industry
- Gold mining industry
- Metallurgy industry
- Powder metallurgy
- Construction materials industry
- Solid waste recycling
- Agriculture
- Chemical and pharmaceutical industry

UNBALANCED THROW SCREENS

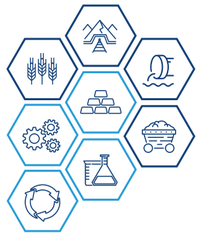


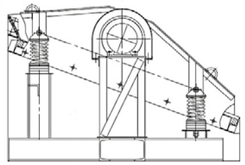
GIL 051

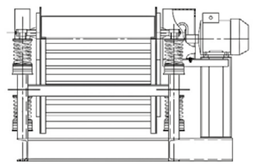
Designed for the sieving of loose materials in continuous mode by specified grain size grades.

CHARACTERISTICS

Unbalanced throw screens use unit assembly. They are produced in several structural variations, and can be equipped with rubber and polyurethane sieves or a metal net.







TECHNICAL SPECIFICATIONS	GIL 051	GIL 052	GIL 053
Screening surface, **mm**	500×1 030	500×1 030	500×1 030
Feed capacity, **t/h**	0,02–4	0,02–5	0,02–6
Separation size, **mm**	0,1–15	0,1–15	0,1–15
Number of decks	1	2	3
Slope angle, **deg**	10–25	10–25	10–25
Oscillation amplitude, **mm**	3–5	3–5	3–5
Oscillation frequency, **Hz**	16	16	16
Drive power, **kW**	0,55	0,55	0,55
Overall dimensions (with 20 degree angle), **mm**:			
length	1 020	1 035	1 085
width	1 040	1 035	1 035
height	675	860	900
Mass, **kg**	180	210	220

« CONTENTS PAGE

HIGH EFFICIENCY

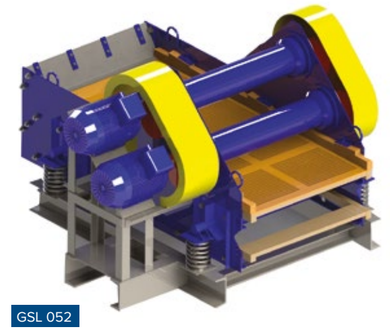
DOUBLE-IMPACT VIBRATING SCREEN

Designed for size classification of loose materials with bulk density up to 2.2 t/m³.

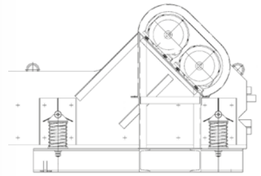
CHARACTERISTICS

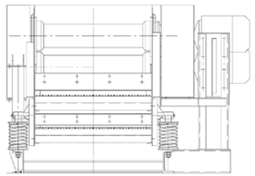
An efficient laboratory and semi-industrial machine for the highly precise size separation of various loose materials. The screen is used alongside an electric-vibrating feeder for more accurate dosing of the material.

Can be equipped with rubber and polyurethane sieves or a metal net.



GSL 052



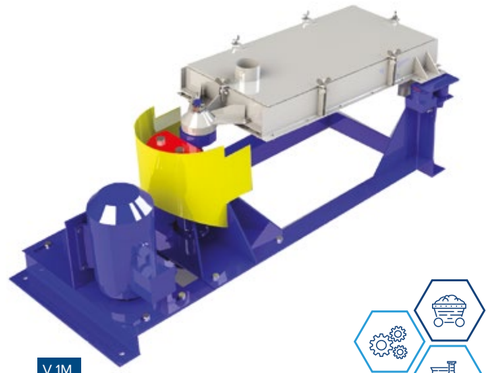


TECHNICAL SPECIFICATIONS	GSL 052
Feed size, **mm**, up to	50
Separation size, **mm**	0,2–10
Number of decks	2
Screening surface, **mm**	500×1 034
Screening surface slope angle, **deg**	0–5
Oscillation amplitude, **mm**	3–5
Oscillation frequency, **Hz**	16
Drive motor, **kW**	2×0,37
Overall dimensions (with 20 degree angle), **mm**:	
length	1 100
width	1 051
height	721
Mass, **kg**	260

LEGEND

- Mining industry
- Gold mining industry
- Metallurgy industry
- Powder metallurgy
- Construction materials industry
- Solid waste recycling
- Agriculture
- Chemical and pharmaceutical industry

VIBRATORY SIEVES



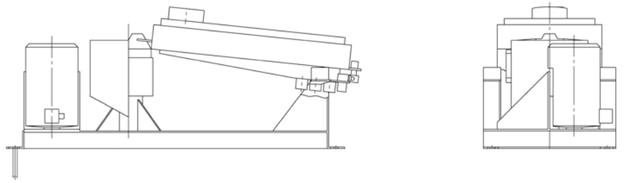
V 1M

Designed for the sieving of light and brittle materials in continuous mode by specified grain size grades using the dry method.

CHARACTERISTICS

The most suitable and sought-after machines for the sieving of dry loose materials with relatively low bulk density. The sieving of this type of material is made possible by the orbital form of the trajectory of the sieve box oscilation in a horizontal plane.

Use of the vibratory sieve provides for the highest possible level of extraction of undersize product and ensures the efficiency of sieve sizing. The hermetic construction of the box prevents dust from appearing during use of the vibratory sieve.



TECHNICAL SPECIFICATIONS	V 1	V 1M	V 05	V 052	V 053
Feed capacity, **t/h**	up to 0,5	up to 0,5	0,01–2	0,01–2	0,01–2
Separation size, **mm**	0,1–5	0,1–5	0,1–10	0,1–10	0,1–10
Maximum feed size, **mm**	15	15	15	15	15
Screening surface, **mm:**					
length	520	520	1 000	1 000	1 000
width	250	250	500	500	500
Slope angle, **deg**	4,5–7	4,5–7	4,5	4,5	4,5
Number of decks	1	2	1	2	3
Oscillation frequency, **per min**	240	240	240	240	240
Drive power, **kW**	0,37	0,37	0,55	0,55	0,55
Overall dimensions, **mm**:					
length	1 030	1 030	1 810	1 810	1 820
width	380	380	720	720	720
height	430	480	455	474	500
Mass, **kg**	63	65	210	215	220

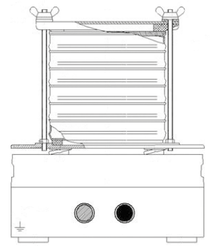
« CONTENTS PAGE

VIBRATING TESTING SIEVES

Designed for the dry sieving of loose materials into several classes by size in periodical mode.

CHARACTERISTICS

Standard laboratory equipment for determining the grain size distribution of loose materials.



ASV-200T

TECHNICAL SPECIFICATIONS	ASV-200 (T)*	ASV-300 (T)*
Number of sieves, up to	10/8	6/4
Sieve height, **mm**	38/50	50/75
Sample mass, **g**, up to	200	300
Sieve diameter, **mm**	200	300
Drive plate oscillation amplitude (depending on mass mounted on the plate), **mm**	0,25...1,5	0,25...1,5
Motor power supply voltage, **V**	220	220
Drive power, **kW**	2×0,025	2×0,025
Overall dimensions, **mm**:		
length	385	385
width	350	350
height up to	710	600
Mass, **kg**	26**	27**

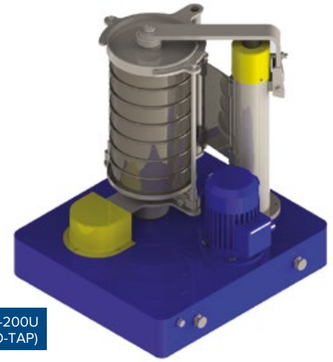
* Can be equipped with a timer (T)
** Assembled with six sieves

LEGEND

- Mining industry
- Gold mining industry
- Metallurgy industry
- Powder metallurgy
- Construction materials industry
- Solid waste recycling
- Agriculture
- Chemical and pharmaceutical industry

QUICK SIEVING

SHOCK TESTING SIEVE AS-200U (RO-TAP)



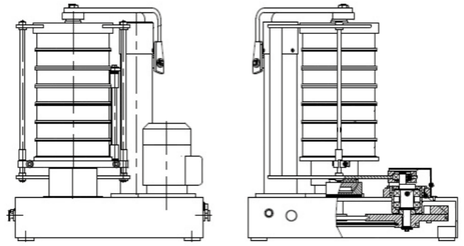
AS-200U (RO-TAP)

Designed for sieving samples or determining the grain size distribution of loose materials.

CHARACTERISTICS

Highly efficient fine fraction sieving. Used for sieving light materials like coal, as well as very small fractions of less than 200 microns in size.

The built-in hammer can be removed if necessary.



TECHNICAL SPECIFICATIONS	AS-200U (RO-TAP)
Maximum size of the sieved material, **mm**	8
Number of decks	1–6
Sieve diameter, **mm**	200
Sieve height, **mm**	38/50
Net cell size, **mm**	0,04–8
Diameter of perforated screen holes, **mm**	2,5–8,0
Hammer blow frequency, **per min**	135
Oscillations, **per min**	270
Drive power, **kW**	0,25
Overall dimensions, **mm**:	
length	600
width	600
height	670
Mass, **kg**	90*

* Mass given without sieve mass

« CONTENTS PAGE

LABORATORY SIEVES

Designed for the dry sieving of loose materials into several classes by size in periodical mode. The sets of sieves are assembled according to the customer's requirements and are equipped with bottom pans and caps.

STANDARDISED SIEVE FRAME SIZES

FRAME		HEIGHT OF FRAME, H, mm
SHAPE	NOMINAL SIZE D, mm	
Round	120	38
	200	38/50
	300	50/75
	500	50/75

DESIGNATION AND SIZE PARAMETERS FOR WIRE SIEVES

SIEVE PLATE MADE OF BRASS, BRONZE AND NON-CORROSIVE NET
(GOST 3826-82, GOST 6613-86, TU 14-4-16-917, TU 14-4-507-99, TU 14-4-1569-89)

Cells, **mm**	0,04	0,045	0,05	0,056		0,063	0,071	0,08	0,09	
	0,1	0,125	0,14	0,16		0,2	0,25	0,315	0,355	0,4
	0,45	0,5	0,56	0,63	0,7	0,8	0,9	1,0	1,25	1,4
	1,6	1,8	2,0	2,2	2,5	2,8	3,0	3,2	4,0	5,0

DESIGNATION AND SIZE PARAMETERS FOR PERFORATED SIEVES

SIZE TYPE	VALUE
Perforated plate with round holes (galvanized steel)	
Hole diameter, **mm**	1,1; 1,5; 2,0; 2,5; 3,0; 4,0; 4,5; 5,0; 5,5; 6,0; 7,0; 7,5; 8,0; 9,0; 10,0; 12,0; 12,5; 13,0; 14,0; 15,0; 17,5 20,0; 22,5; 25,0; 30,0; 40,0; 50,0; 55,0; 60,0; 70,0; 80,0; 87,5; 90,0; 100,0; 110,0; 120,0

DESIGNATION AND SIZE PARAMETERS FOR SQUARE PERFORATED SIEVES

SIZE TYPE	VALUE
Perforated plate with square holes (galvanized steel)	
Hole size	4,0; 5,6; 8,0; 11,2; 16; 22,4; 31,5; 45; 63; 90; 126

3. MINERAL PROCESSING EQUIPMENT

A full range of laboratory equipment for testing the beneficiation ability of ore and man-made materials for modeling industrial processes based on magnetic and electromagnetic separation, flotation and gravitational methods of beneficiation.

« CONTENTS PAGE

LEGEND

- Mining industry
- Gold mining industry
- Metallurgy industry
- Powder metallurgy
- Construction materials industry
- Solid waste recycling
- Agriculture
- Chemical and pharmaceutical industry

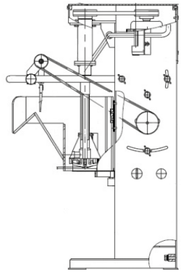
LABORATORY FLOTATION MACHINES

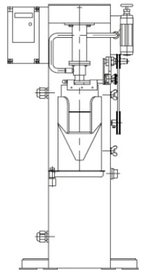
FML-3

Designed for the laboratory testing of raw minerals for the froth flotation method of beneficiation with pulp in a pH range of 2–12.

CHARACTERISTICS

The machines provide high-precision modeling of the industrial flotation process. Flotation machine is equipped with a thyristor frequency converter (TFC).





TECHNICAL SPECIFICATIONS	FML-0,3	FML-1	FML-3	FML-8	FML-12
Useful cell volume, **l** (±10%)					
cell 1	0,05	0,5	1,5	5	12
cell 2	0,10	0,75	2	6,3	
cell 3	0,20	1	3	8	
cell 4	0,3				
Impeller diameter, **mm**, up to	28	55	70	100	100
Impeller rotations, **per sec**	15–40	15–40	15–40	15–30	15–30
Inlet air with maximum impeller rotation frequency, **l/s**, no less than	0,02	0,05	0,07	0,2	0,27
Foam remover rotations, **per sec** (±20%)	0,25	0,25	0,25	0,25	0,25
Drive power, **kW**	0,18	0,18	0,18	0,25	0,25
Number of cells provided	4	3	3	by choice, 1	1
Overall dimensions, **mm**:					
length	420	460	480	670	805
width	380	380	380	600	600
height	600	630	760	1 570	1 450
Mass, **kg**	27	28	35	75	78

« CONTENTS PAGE

MAGNETIC DRUM SEPARATORS FOR WET BENEFICIATION (EBM 32/20, EBM 63/18)

Designed for the wet magnetic beneficiation of strongly magnetic ores and materials with coarseness of 0.1–3 mm in laboratories and production areas with low productive capacity.

CHARACTERISTICS

Depending on the magnetic susceptibility of the material, its coarseness, and conditions of mineral processing, the main parameters can be adjusted:

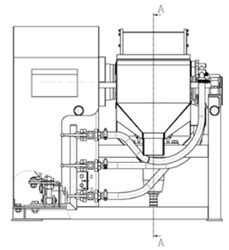
- magnetic flux density
- position of the magnetic circuit
- gap between the drum and tank
- section of the insert of the discharge opening
- for nonmagnetic products.

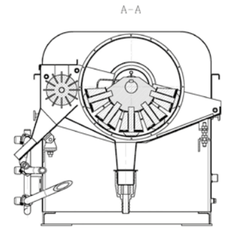
The parameters of the tank water mode also can be adjusted:

- pulp level in the tank
- amount of water conveyed to the sprays, and their angular position.

EBM 32/20

TECHNICAL SPECIFICATIONS	EBM 32/20	EBM 63/18
Solids capacity, **kg/h**, up to	75	100
Feed size, **mm**	0,1–3	up to 6
Magnetic flux density in the work zone, **T**:		
in short-time mode (15 min)	0,13	up to 0,25
in continuous mode	0,07	
Diameter of the working part of the drum, **mm**	327	630
Drum length with flange, **mm**	227	180
Drum, **rpm**	31,6	34, 43
Nominal drum drive power, **kW**	0,37	0,75
Energy consumed by the electromagnetic circuit, **kW**, up to	0,7	1,1
Overall dimensions, **mm**:		
length (along the drum axis)	690	615
width	714	830
height	638	1 258
Mass, **kg**	155*	290





* Mass, kg (without operating console)

LEGEND

- Mining industry
- Gold mining industry
- Metallurgy industry
- Powder metallurgy
- Construction materials industry
- Solid waste recycling
- Agriculture
- Chemical and pharmaceutical industry

MAGNETIC DRUM SEPARATOR FOR WET BENEFICIATION (PBM 32/20)

PBM 32/20

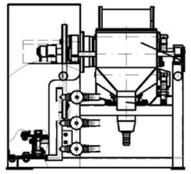
Designed for the wet magnetic beneficiation of strongly magnetic ores and materials with coarseness of 0.1–3 mm in laboratories and production areas with low productive capacity.

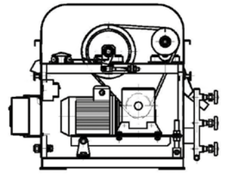
CHARACTERISTICS

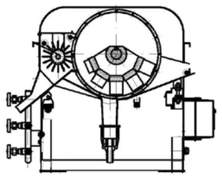
The PBM-type separator is available in two variants:

- with barium ferrite magnets
- with NdFeB magnets, which provide increased magnetic flux density on the drum surface (no less than 0.35 T).

The separator can be used in periodical mode as well as in continuous mode (as part of small installations).







TECHNICAL SPECIFICATIONS	PBM 32/20
Solids capacity, **kg/h**	up to 75
Feed size, **mm**	0,1–3
Magnetic flux density in the work zone, **T**	0,35
Diameter of the working part of the drum, **mm**	327
Drum length with flange, **mm**	231
Drum, **rpm**	31,6
Nominal drum drive power, **kW**	0,37
Overall dimensions, **mm**:	
length (along the drum axis)	690
width	810
height	638
Mass, **kg**	155

« CONTENTS PAGE

MAGNETIC DRUM SEPARATORS

Designed for the dry magnetic beneficiation of strongly magnetic ores and removal of ferrous impurities from various loose materials up to 15 mm in size. The material is divided into two products: magnetic and nonmagnetic.

CHARACTERISTICS

Notable for their simple design and the high reproducibility of their measurements.

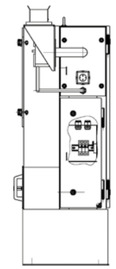
The PBM-type separators are available in two variants:

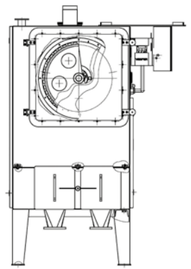
- with barium ferrite magnets
- with NdFeB magnets, which provide increased magnetic flux density on the drum surface (no less than 0.35 T).

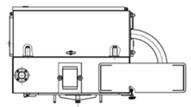
The separators can be used in periodical mode as well as in continuous mode (as part of small installations).

PBSC 40/10

TECHNICAL SPECIFICATIONS	BSC 30/5	PBSC 40/10
Feed capacity, **t/h**, up to	0,1	1
Magnetic flux density on drum surface, **T**, no less than:		
base variant (NdFeB magnets)	0,3	0,3
variant 01 (BaFe magnets)	0,14	0,14
Diameter of the working part of the drum, **mm**	300	400
Length of the working part of the drum, **mm**	50	100
Drive power, **kW**	0,55	0,55
Drum, **rpm**	0–200	0–200
Admissible feed size, **mm**	10	20
Overall dimensions, **mm**:		
length (along the drum axis)	370	550 (580*)
width	570	960 (1 000*)
height	800	1 415 (1 720*)
Mass, **kg**	100	242 (273*)





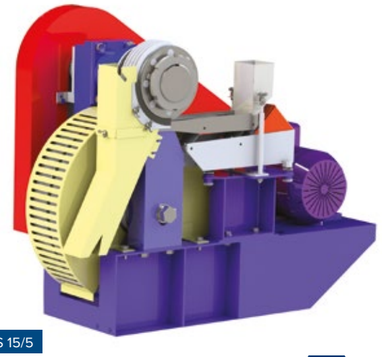


* Values with vibratory feeder are given in parentheses

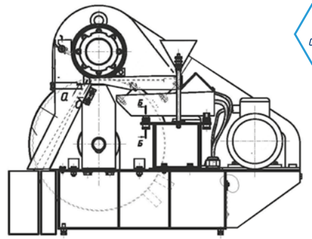
LEGEND

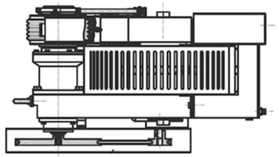
- Mining industry
- Gold mining industry
- Metallurgy industry
- Powder metallurgy
- Construction materials industry
- Solid waste recycling
- Agriculture
- Chemical and pharmaceutical industry

ELECTROMAGNETIC ROLLER SEPARATORS



EVS 15/5





Designed for the dry separation of weakly magnetic ores and materials into magnetic and nonmagnetic components (dry separators).

EVS 10/5 and EVS 15/5
The separators are constructed to allow for their usage as analyzers under laboratory conditions, in metallurgic plants and in other branches of industry.

EVS 28/9
The EVS 28/9 electromagnetic roller separator for dry beneficiation is designed for the dry magnetic separation of weakly magnetic ores and materials.

EVS V-28/9
The EVS V-28/9 electromagnetic top feeding roller separator is designed for the dry magnetic beneficiation of finely ground and non-free-flowing weakly magnetic ores and materials that can not be efficiently processed in bottom feeding separators.

TECHNICAL SPECIFICATIONS	EVS 10/5	EVS 15/5	EVS 28/9	EVS B-28/9	EVM 28/9
Feed capacity, **t/h**	0,002–0,005	0,005	0,3–0,6	0,05–0,3	up to 0,4
Feed size, **mm**, up to	2	2	0,1–6	0,5	0,1–2
Magnetic flux density, **T**, no less than	1,7	1,5	1,7	1,5	1,7
Diameter of the working part of the roller, **mm**	100	150	280	280	280
Length of the working part of the roller, **mm**	50	50	90	90	90
Drum, **rpm**	70	50–300	65–250	50–150	30–100
Drive power, **kW**	0,18	0,55	1,5	1,5	0,75
Energy consumed by the electromagnetic circuit, **kW**, up to	0,5	0,5	0,8	0,8	0,8
Overall dimensions, **mm**:					
length (along the drum axis)	540	800	850	900	880
width	340	340	1 500	1 300	1 100
height	570	620	1 850	1 850	1 520
Mass, **kg**	75	140	1 200	1 100	820

« CONTENTS PAGE

CHARACTERISTICS

EVS 10/5
Separated products by selecting the feed speed of the vibratory feeder, magnetic field intensity and position of the feed launder in the work zone.

EVS 15/5
Adjustments can be made to the composition of the separated products by selecting the feed speed of the vibratory feeder, magnetic field intensity and position of the feed launder in the work zone.

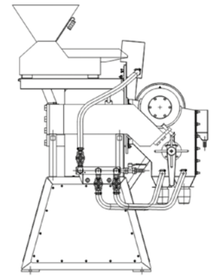
Feed of the material into the work zone of the separator can be done in a "calm" transportation mode as well as in "fluidized bed" mode, which helps to increase the efficiency of the separation process.

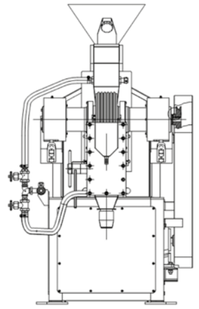
EVS 28/9 and EVS V-28/9
Adjustments can be made to the composition of the separated products in the compartments by selecting the magnetic field intensity in the work zone, roller rotation frequency, and also by turning the tank partitions (gate valves) that form the compartments.

Tank side walls have glass windows to observe the separation process. Additional illumination is also installed inside.

An orifice is installed on one of the side walls for connection with the exhaust system of ventilation during work with dust-forming materials.

A sampler is installed under the outlet orifices of the tank to collect samples of the separated material.





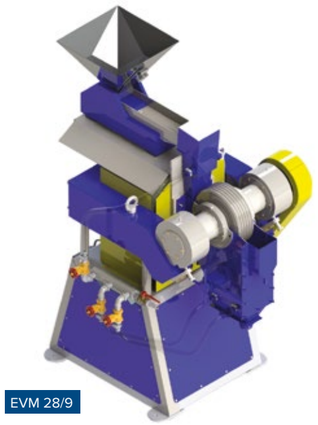
Designed for the wet separation of weakly magnetic ores and materials into magnetic and nonmagnetic components (wet separators).

EVM 28/9
The separator is designed for laboratory and semi-industrial research on the wet upgrading of rough rare metal concentrates, as well as on the beneficiation of oxidated metal ores and other types of weakly magnetic ores and materials.

The separator may be used in moderate and cold climatic regions in enclosed spaces. Climate category "moderately cold" Type "4" (GOST 15150-69).

CHARACTERISTICS

EVM 28/9
Adjustments can be made to the composition of the separated products in the compartments by selecting the magnetic field intensity in the work zone, roller rotation frequency, and also by turning the tank partition (gate valve) that forms the compartments.



EVM 28/9

LEGEND

- Mining industry
- Gold mining industry
- Metallurgy industry
- Powder metallurgy
- Construction materials industry
- Solid waste recycling
- Agriculture
- Chemical and pharmaceutical industry

« CONTENTS PAGE

LOW ENERGY CONSUMPTION

ELECTROSTATIC DRUM SEPARATOR

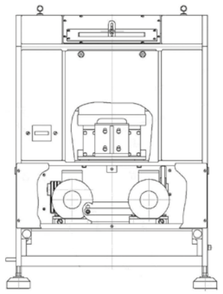
ELCOR-1

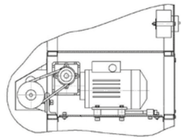
Designed for the dry separation of loose materials by their electrophysical characteristics. Can be used for beneficiation and classification of mineral and man-made raw materials.

CHARACTERISTICS

Concentrate of the desired quality can be obtained while the level of extraction of the useful component remains high.

The electrostatic separator is notable for its low energy consumption. The results of the separation of the raw materials can be optimized by adjusting the electrode geometry and temperature of the material in the feed launder.





TECHNICAL SPECIFICATIONS	Elcor-1
Feed size, **mm**, up to	0,04–5
Processed material temperature, **°C**, up to	125
Collecting electrode size, **mm**	
diameter	240
length	250
Collecting electrode, **rpm**	55÷370
Capacity, **kg/h**, up to*	100
Quantity of derived products	10
Maximum electrode voltage, **kV**	40
Permissible current for high voltage electrodes, **mA**	12
Consumed energy, **kW**, up to	2,5
Part consumed by heating elements	2,1
Overall dimensions, **mm**:	
length	1 032
width	630
height	846
Mass, **kg**	180

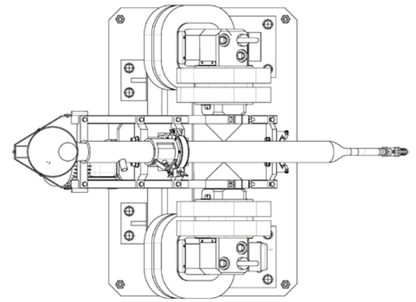
* Value depends on the properties of the processed material and requirements for the concentrate

ELECTROMAGNETIC TUBE ANALYZER

Designed for the wet magnetic analysis of strongly magnetic ores and products of magnetic separation, as well as for determining the strongly magnetic fraction content of various products.

CHARACTERISTICS

An important feature of the machine is the visibility of the magnetic separation of the material.



298SE

TECHNICAL SPECIFICATIONS	298SE
Gap flux density, **T**, no less than	0,2*
Feed size, **mm**, up to	0,5
Tube diameter, **mm**	52
Tube stroke, **mm**	40
Power voltage, **V**	380
Drive power, **kW**	0,18
Overall dimensions, **mm,** length (along the drum axis):	
length	970
width	720
height	770
Mass, **kg**	170

* Flux density indicated with a 5 A energizing current on the electromagnetic system.
Operation with a 6.5 A energizing current in short-time mode is also possible

LEGEND

- Mining industry
- Gold mining industry
- Metallurgy industry
- Powder metallurgy
- Construction materials industry
- Solid waste recycling
- Agriculture
- Chemical and pharmaceutical industry

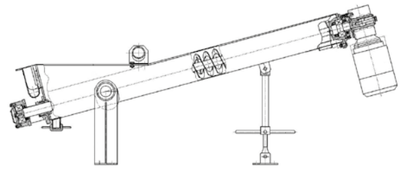
SPIRAL CLASSIFICATORS

71KR

One of the earliest machines for granular material separation by size in water. It classifies ground materials into two fractions primarily in the size range of 0.05–3 mm. Spiral classificators are also used to remove clay impurities from ore. The maximum material size for this process can reach 10–15 mm.

CHARACTERISTICS

Among the advantages of the spiral classificators are their simple design, low energy consumption and the possibility to use them in closed grinding cycles without pumps. This equipment can be effectively employed as part of integrated continuous-action laboratory installations, and in pilot concentrating plants.



TECHNICAL SPECIFICATIONS	71KR	72KR	73KR
Spiral diameter, **mm**	100	150	200
Tank length, **mm**	1 200	1 200	1 200
Number of spiral starts	2	2	2
Helix pitch distance	80	110	150
Spira, **rpm**	18–30	18–30	18–30
Slope angle, **deg**	10–30	10–30	10–30
Drive power, **kW**	0,25	0,25	0,37
Capacity for separation with fineness of 0.15 mm, **kg/h**, no less than:			
overflow capacity	200	260	300
sand raking capacity	300	500	500
Overall dimensions, **mm**:			
length	1 470–1 540	1 460–1 540	1 450–1 530
width	308	320	425
height	540–890	580–870	615–980
Mass, **kg**	52,2	57,3	90

« CONTENTS PAGE

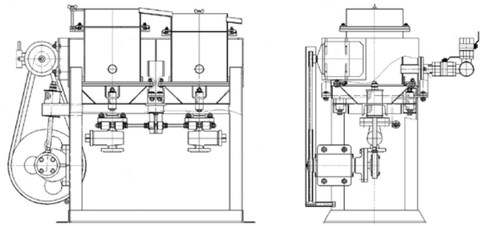
JIG

Designed for the jigging of minerals up to 12 mm in size in laboratories and industrial production in non-aggressive conditions.

CHARACTERISTICS

Laboratory jigs are capable of modeling industrial jigging processes with high precision.

52-OT

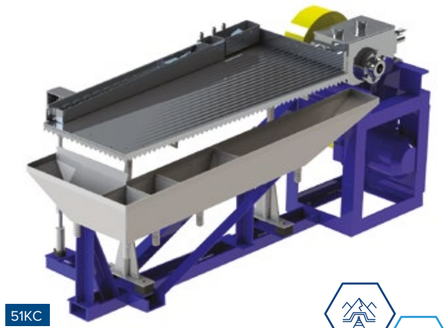


TECHNICAL SPECIFICATIONS	52-OT
Capacity, **kg/h**	200
Screen area, **m²**	0,07
Compartment width, **mm**	220
Compartment length, **mm**	215
Number of compartments	2
Diaphragm stroke, **mm**	0–21
Nominal drive motor power, **kW**, up to	0,25
Power voltage, **V**	380
Pulse number, **per min**	270–370
Overall dimensions, **mm**:	
length	895
width	685
height	935
Mass, **kg**	100

LEGEND

- Mining industry
- Gold mining industry
- Metallurgy industry
- Powder metallurgy
- Construction materials industry
- Solid waste recycling
- Agriculture
- Chemical and pharmaceutical industry

CONCENTRATING TABLE

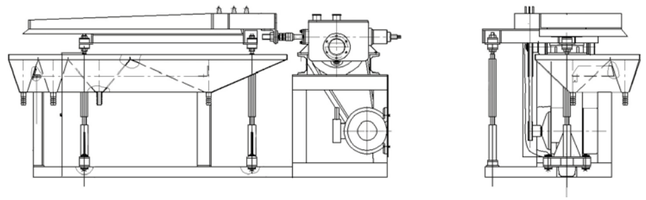


51KC

Designed for the separation of minerals in water by their specific gravity, with material of 0.04–3 mm in size. Used in laboratory research for the beneficiation of various materials.

CHARACTERISTICS

The material fans out across the table and can be separated into any number of parts. For the concentrating table to work efficiently, it is necessary to select the mode for loosening the particle layer created as a result of suspension in the water flow and the reciprocating motion of the deck.



TECHNICAL SPECIFICATIONS	51KC
Capacity, **kg/h**	50
Number of decks	1
Area of one deck, **m²**	0,4
Deck stroke frequency, **per min**, within	250–450
Deck stroke, **mm**, max. dev. +/-	8–15
Deck tilt, **deg**	0–10
Nominal drive motor power, **kW**	1,1
Power voltage, **V**	220
Motor, **rpm**	1 000
Overall dimensions, **mm**:	
length	1 580
width	625
height	685
Mass, **kg**	100

« CONTENTS PAGE

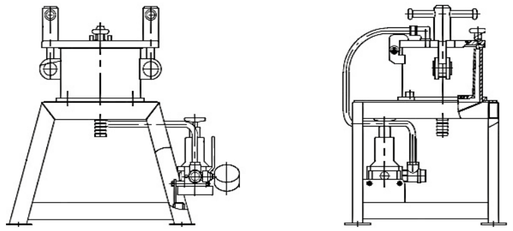
LABORATORY FILTER UNIT

Designed for the filtration of suspensions with a density of up to 5 g/cm³ in laboratories in periodical mode.

CHARACTERISTICS

Traditional highly efficient hyperbaric external pressure filters.

55FT



TECHNICAL SPECIFICATIONS	55FT	56FT	57FT
Maximum air pressure, **kg/cm³**	6	5	6
Number of replaceable filtering cups	3	1	1
Filtering cup volume, **l**	0,5; 1; 2	8	4
Overall dimensions, **mm**:			
length	560	675	695
width	390	435	395
height	530	804	765
Mass, **kg**	26*	53	42

* Indicated mass includes 2-liter cup

LEGEND

- Mining industry
- Gold mining industry
- Metallurgy industry
- Powder metallurgy
- Construction materials industry
- Solid waste recycling
- Agriculture
- Chemical and pharmaceutical industry

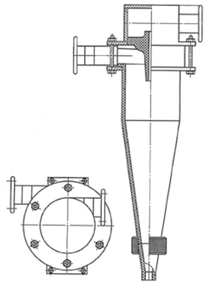
HYDROCYCLONES

HC-150

Used for the beneficiation of highly abrasive materials and their size classification in a liquid medium for the dewatering, thickening and desliming of pulps, as well as for cleansing any liquids from oils and other contaminants.

CHARACTERISTICS

- Optimal geometry of the wetted part.
- High wear resistance of the work surface.
- Able to release even the smallest hard particles into overflow.



TECHNICAL SPECIFICATIONS	HC-35	HC-50	HC-75	HC-150
Diameter, **mm**	35	50	75	150
Cone angle, **deg**	10	10	10	10
Overflow orifice diameter, **mm**	10	13	22	40
Overflow size in 100% optimal mode, **µm**	30	40	40	70
Apex orifice diameter*, **mm**	6, 8, 10	6, 8, 10, 12	10, 12, 17	12, 17, 24
Feed capacity with pressure of 0.1 mPa, **m³/h**	2	2,5	5	15
Overall dimensions, **mm**:				
length	150	150	200	450
width	100	100	220	380
height	430	430	500	1 180
Mass, **kg**	2,4	3	6,5	24

* Diameter and the number of apex nozzle orifices are determined in accordance with the specifics of the order

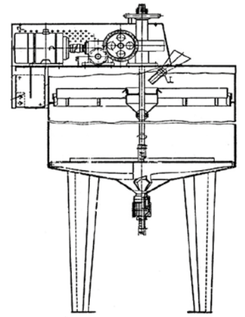
« CONTENTS PAGE

THICKENER

Designed for thickening of suspensions with a density of up to 5 g/cm³ in laboratories.

CHARACTERISTICS

Notable for its simple design and ease of operation. Used for the thickening and clarification of pulps using coagulants and flocculants, or without them.



55SG

TECHNICAL SPECIFICATIONS	55SG
Vat diameter, **mm**	700
Vat height, **mm**	430
Drive power, **kW**	0,18
Rakes, **rpm**	0,28–1
Overall dimensions, **mm**:	
length	825
width	773
height	1 400
Mass, **kg**	90,6

4. AUXILIARY EQUIPMENT

Laboratory equipment that ensures accurate dosing and preparation of loose materials and ore pulps in disintegration and beneficiation operations.

« CONTENTS PAGE

LEGEND

- Mining industry
- Gold mining industry
- Metallurgy industry
- Powder metallurgy
- Construction materials industry
- Solid waste recycling
- Agriculture
- Chemical and pharmaceutical industry

VIBRATING FEEDERS

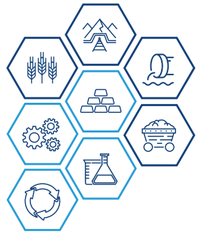
UNRIVALED DOSING ACCURACY

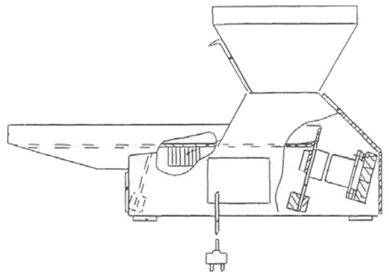
PE-1

Used for uniform variable delivery of loose materials to separators, crushers, sample splitters and screens.

CHARACTERISTICS

Vibrating feeders are notable for their high accuracy of loose material dosing, ease of management and low level of noise pollution.





TECHNICAL SPECIFICATIONS	PT-0.3 (359 PT)	PE-1 (294 PT)	PT-1 (358 PT)
Pan width between sides, **mm**	28	100	100
Pan length, **mm**	200	450	450
Pan oscillation amplitude, **mm**	0,1	0,2	0,2
Feed size, **mm**	0,5...3	0,5...10	0,5...10
Capacity with source material bulk density of 1.5–1.7 t/m³, **kg/h**	0,5–20	50–1 000	50–1 000
Overall dimensions, **mm**:			
length	352	610	660
width	160	370	375
height	251	345	380
Mass, **kg**	6,5	32	35

« CONTENTS PAGE

CHUTE SAMPLE SPLITTERS

ACCURATE SEPARATION

Designed for the splitting of loose material samples into parts of equal mass and contents.

CHARACTERISTICS

Traditional static devices with a simple design. Also known as Jones samplers, they are used for the splitting of loose materials into fractions of equal mass.

934RM

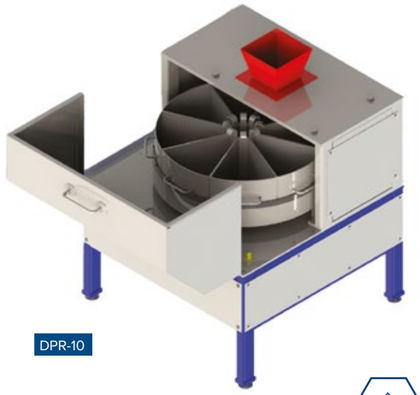
943RM

TECHNICAL SPECIFICATIONS	934RM	943RM
Riffle width, **mm**	10	5
Number of riffles	48	48
Total width of riffle surfaces, **mm**	480	240
Bowl size, **l**	20	4,5
Riffle widths used, **mm**	10, 20, 30, 40, 60, 80	5, 10, 15, 20
Overall dimensions, **mm**:		
length	600	320
width	500	280
height	720	420
Mass, **kg**	40	15

LEGEND

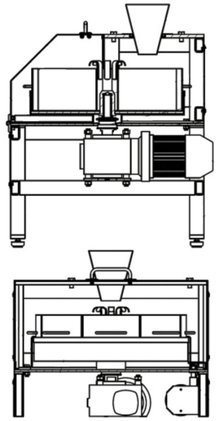
- Mining industry
- Gold mining industry
- Metallurgy industry
- Powder metallurgy
- Construction materials industry
- Solid waste recycling
- Agriculture
- Chemical and pharmaceutical industry

ROTARY SAMPLE SPLITTERS



DPR-10

DPC-100



Designed for the reduction of geological samples of rocks and ores for their preparation for analytic research.

CHARACTERISTICS

Provide for the highly accurate separation of loose material samples into fractions of equal mass and composition.

To ensure uniform delivery of the material, it is recommended to use the splitter with a feeder and a jaw crusher.

TECHNICAL SPECIFICATIONS	DPR-10	DPC-30	DPC-100	DPC-100A
Feed size, **mm**, up to	20	20	20	20
Total volume of receptacles, **dm³**	10	30	100	100
Reduction ratio	1/2...1/8	1/2...1/8	1/2...1/8	1/2...1/12
Drive motor, **kW**	0,18	0,25	0,18	0,18
Overall dimensions, **mm**:				
length	550	550	955	590
width	580	580	955	590
height	680	800	1 100	910
Mass, **kg**	100	110	82	60

« CONTENTS PAGE

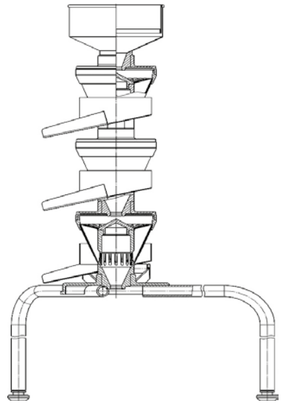
RING RIFFLE 928RM-B

Designed for collection and reduction of suspension samples with a density of up to 5 g/cm³ before assay or chemical analysis as well as for their division into 2, 4 or 8 parts.

CHARACTERISTICS

A machine for the highly accurate separation of suspensions and pulps into small fractions.

928RM-B

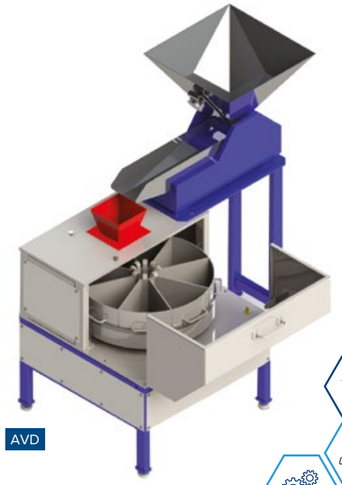


TECHNICAL SPECIFICATIONS	928RM-B
Feed size, **mm**	0–1
Number of compartments	3
Height of riffle stand, **mm**, up to	548
Width of riffle stand, **mm**, up to	500
Sample volume, **l**	10
Capacity, **kg/h**	0,5–5
Accuracy of reduction, **%**	1–2
Overall dimensions, **mm**:	
length	1 030
width	500
height	500
Mass, **kg**	9,4

LEGEND

- Mining industry
- Gold mining industry
- Metallurgy industry
- Powder metallurgy
- Construction materials industry
- Solid waste recycling
- Agriculture
- Chemical and pharmaceutical industry

ROTARY ARC SAMPLE SPLITTER

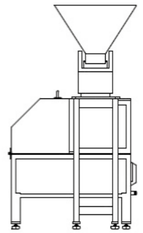


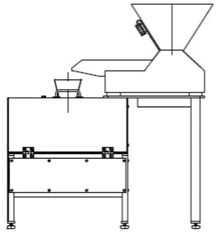
AVD

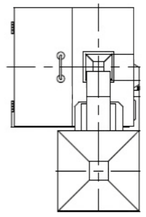
Designed for the reduction of geological samples of rocks and ores for their preparation for analytic research.

CHARACTERISTICS

Ensures the highly accurate separation of loose material samples into small fractions of equal mass and composition, if feed is stable.







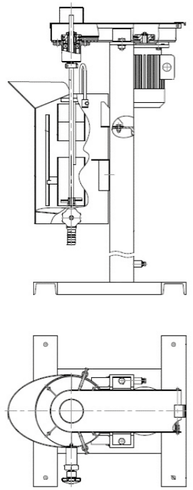
TECHNICAL SPECIFICATIONS	AVD
Feed size, **mm**, up to	20
Total volume of receptacles, **dm³**	12
Reduction ratio	1/2...1/8
Drive power, **kW**	0,18
Overall dimensions, **mm**:	
length	550
width	900
height	1 020
Mass, **kg**	150

AGITATION VAT

Designed for the agitation and conditioning of the pulp of finely ground ore in laboratories.

CHARACTERISTICS

Unrivaled for its efficiency in preparing pulp for flotation research and chemical research.



119MSH

TECHNICAL SPECIFICATIONS	119MSH
Tank volume, **l**	15
Impeller diameter, **mm**	70
Tank diameter, **mm**	240
Tank height, **mm**	340
Impeller, **rpm**	300–1 500
Impeller drive motor, **kW**	0,25
Overall dimensions, **mm**:	
length	585
width	500
height	1 065
Mass, **kg**	51

« CONTENTS PAGE

LEGEND

- Mining industry
- Gold mining industry
- Metallurgy industry
- Powder metallurgy
- Construction materials industry
- Solid waste recycling
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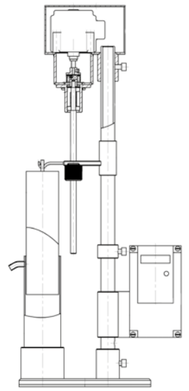
REAGENT FEEDER

159PT

Designed for accurate dosing of liquid reagents.

CHARACTERISTICS

The reagent feeder is used for accurate dosing of flotation reagents during pilot testing or integrated laboratory testing.



TECHNICAL SPECIFICATIONS	159PT
Capacity, **mm³/min**	200–5 000
Drive motor, **kW**	25
Overall dimensions, **mm**:	
length	330
width	300
height	665
Mass, **kg**	11

« CONTENTS PAGE

LABORATORY TABLES

Metal laboratory tables can be used to mount equipment such as vibrating cone crushers, flotation machines, testing sieves, electromagnetic feeders, sample splitters, etc.

CHARACTERISTICS

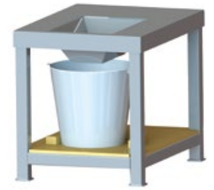
Table legs are fitted with caster wheels with locks, which ensure the steadiness of their position even if the device vibrates.

LABORATORY TABLE 7×10

LABORATORY TABLE 6×12

LABORATORY TABLE 6×6

STAND FOR JC 60×100



STAND FOR JC 100×200 1 001/1 002

TECHNICAL SPECIFICATIONS	Laboratory table 7×10	Laboratory table 6×6	Laboratory table 6×12	STAND FOR JC 60×100 601/602*	STAND FOR JC 100×200 1 001/1 002**
Maximum capacity, **kg**	140	250	250	150	250
Overall dimensions, **mm**:					
length	1 160	600	1 200	450	600
width	700	600	600	350	450
height	749	850	850	500	500
Mass, **kg**	85	51	84	19	28

* 601 version with drawer / 602 version with bucket

** 1001 version with drawer / 1002 version with bucket

Any kinds of laboratory tables and stands can be manufactured taking into account the customer's individual requirements.

MEKHANOBR-TEKHNIKA REC reserves the right
to change the technical specifications of the equipment.

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