

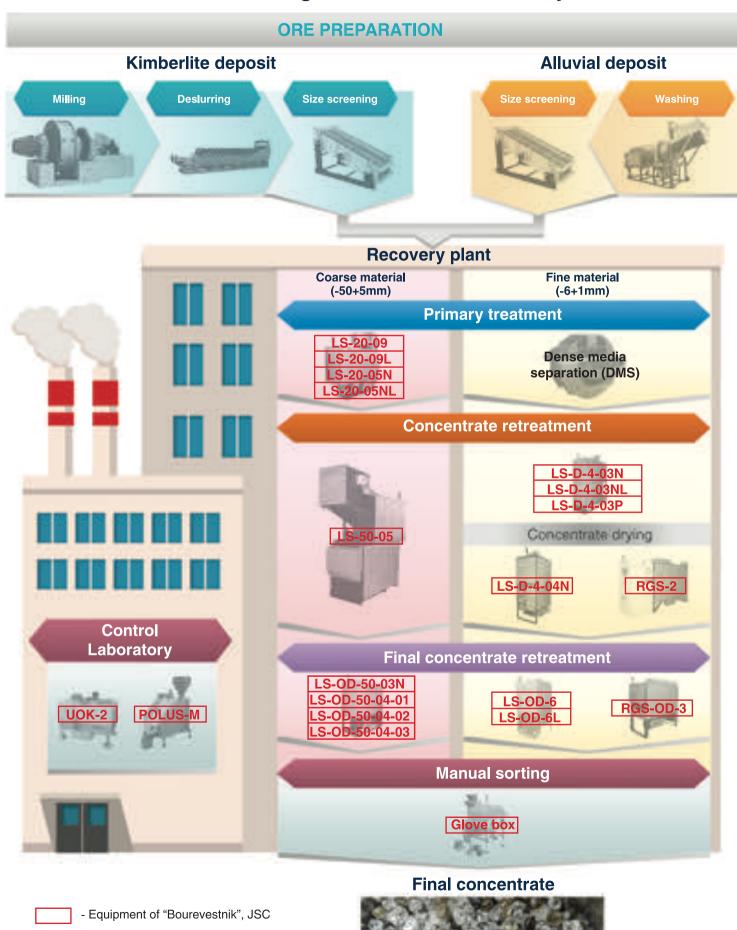


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Process diagram of diamond recovery





X-ray luminescence sorters for diamond recovery





Sorting equipment is widely applied in diamond production industry by making use of sensor-based sorting methods of diamond-bearing ore. X-ray Luminescence Sorters have mostly found use in a wide range of diamond recovery solutions.

Functional principle of X-ray Luminescence Sorters is based on diamonds physical property to luminesce under X-ray irradiation which is inherently different to the gangue minerals present.



Benefits of X-ray Luminescence Sorters at a glance:

- high recovery;
- effective concentration;
- low operational costs;
- low environmental impact.

"Bourevestnik", JSC has a great experience and tradition in the area of design and manufacture of X-ray Luminescence Sorters, starting from supply of the world's first X-ray sorter LS-20 for diamond production industry, back to 1969.

Since then, it has been supplied more than 1900 sorters, where 800 of them are in operation.



LS-20-05N

Primary treatment

-20+5 mm

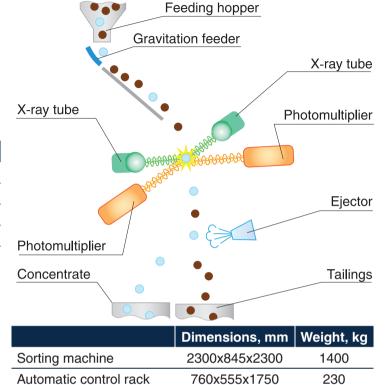
Legacy product

X-ray luminescence sorter LS-20-05N is a diamond recovery machine designed for treatment of WET material with size range -20+5 mm.

Main specification		
Size fraction, mm	-20+10	-10+5
Throughput, t/h	45	25
Yield per one ejection, kg	1	0.5
Recovery rate, %	98	
Type of material	We	et

Material feeding and detection system	
Material feed Gravitation feeder	
Flow	1
X-ray tube 2	
Photomultiplier	6

Sorter's supply		
Power consumption, kVA (single phase, 220V/50Hz) 6		
Technical water consumption, not more than, I/min 30		
Cooling water consumption, not less than, I/min 6		6
Consumption of per 1 ejection, I 0.4		0.48
compressed air	nominal productivity, I/min	30



LS-20-05NL

Primary treatment

-20+5 mm

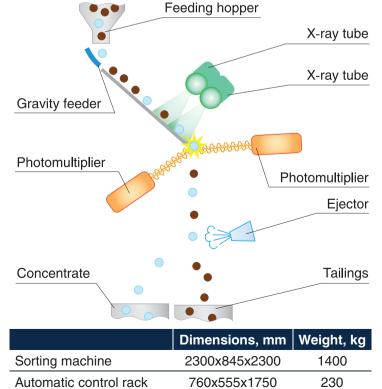
New product

X-ray luminescence sorter LS-20-05NL is a diamond recovery machine designed for treatment of WET material with size range -20+5 mm.

Main specification		
Size fraction, mm	-20+10	-10+5
Throughput, t/h	45	25
Yield per one ejection, kg	1.5	1.0
Recovery rate, %	98.5	
Type of material	We	et

Material feeding and detection system	
Material feed Gravitation feeder	
Flow	1
X-ray tube	2
Photomultiplier	8

Sorter's supply		
Power consumption, kVA (single phase, 220V/50Hz) 6		
Technical water consumption, not more than, I/min 30		
Cooling water consumption, not less than, I/min 6		6
Consumption of per 1 ejection, I 0.48		0.48
compressed air nominal productivity, I/min 30		30





LS-20-09

Primary treatment

-50+5 mm

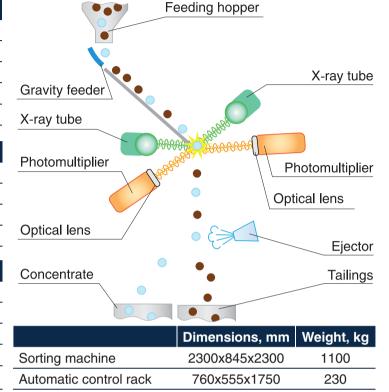
Legacy product

X-ray luminescence sorter LS-20-09 is a diamond recovery machine designed for the treatment of WET material with the size range -50+5 mm.

Main specification			
Size fraction, mm	-50+20	-20+10	-10+5
Throughput, t/h	100	60	30
Yield per one ejection, kg	1	0.65	0.4
Recovery rate, %		98.5	
Type of material		wet	

Material feeding and detection system	
Material feed	Gravitation feeder
Flow	1
X-ray tube	2
Photomultiplier	8

Sorter's supply		
Power consumption, kVA (single phase, 220V/50Hz) 6		
Technical water consumption, not more than, I/min 30		
Cooling water consumption, not less than, I/min 6		
Consumption of per 1 ejection, I 1.15		1.15
compressed air nominal productivity, I/min 30		30



LS-20-09L

Primary treatment

-50+10 mm

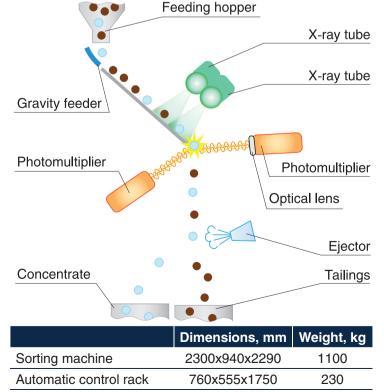
New product

X-ray luminescence sorter LS-20-09L is a diamond recovery machine designed for treatment of WET material with size range -50+10 mm.

Main specification		
Size fraction, mm	-50+20	-20+10
Throughput, t/h	100	60
Yield per one ejection, kg	1	0.65
Recovery rate, %	98.5	
Type of material	wet	

Material feeding and detection system	
Material feed Gravitation	
Flow	1
X-ray tube	2
Photomultiplier	8

Sorter's supply		
Power consumption, kVA (single phase, 220V/50Hz)		
Technical water consumption, not more than, I/min 30		
Cooling water consumption, not less than, I/min		6
Consumption of per 1 ejection, I		1.15
compressed air nominal productivity, I/min		30
Compressed all Hominal productivity, Willin		





LS-50-05

Concentrate retreatment

-50+5 mm

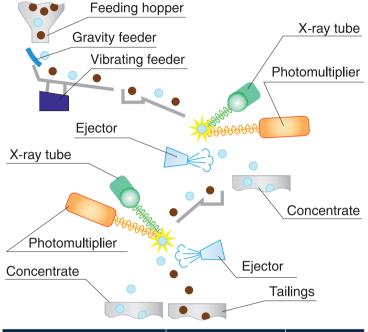
Legacy product

X-ray luminescence sorter LS-50-05 is a diamond recovery machine designed for treatment of WET material with size range -50+5 mm.

Main specification			
Size fraction, mm	-50+20	-20+10	-10+5
Throughput, t/h	30	20	9
Yield per one ejection, kg	0.7	0.3	0.1
Recovery rate, %		98.5	
Type of material		wet	

Material feeding and detection system		
Material feed	Gravitation/Vibrating feeder	
Flow	1, 2, 4	
X-ray tube	2	
Photomultiplier	8	

Sorter's supply		
Power consumption, kVA (single phase, 220V/50Hz)		6
Technical water consumption, not more than, I/min		20
Cooling water consumption, not less than, I/min		6
Consumption of per 1 ejection, I		0.92
compressed air	nominal productivity, I/min	50



	Dimensions, mm	Weight, kg
Sorting machine	2550x870x2580	1800
Automatic control rack	760x555x1750	230



LS-OD-50-03N

Final concentrate retreatment

-50+5 mm

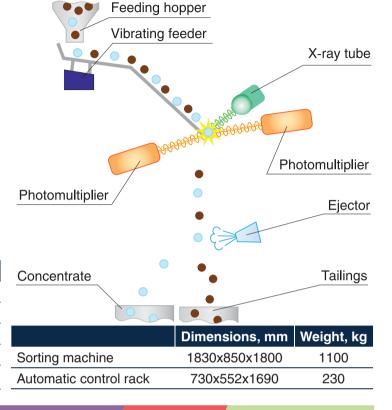
Legacy product

X-ray luminescence sorter LS-OD-50-03N is a diamond recovery machine designed for treatment of WET material with size range -50+5 mm.

Main specification			
Size fraction, mm	-50+20	-20+10	-10+5
Throughput, kg/h	2500	500	125
Yield per 10 ejections, grain	15	18	22
Recovery rate, %		99	
Type of material		wet	

Material feeding and detection system		
Material feed	Vibrating feeder	
Flow	2	
X-ray tube	1	
Photomultiplier	2	

Sorter's supply		
Power consumption, kVA (single phase, 220V/50Hz)		
Technical water consumption, not more than, I/min		30
Cooling water consumption, not less than, I/min		6
Consumption of per 1 ejection, I		0.46
compressed air	nominal productivity, I/min	50



LS-OD-50-04-01

Final concentrate retreatment

-50+10 mm

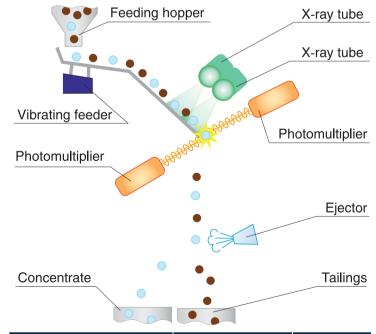
New product

X-ray luminescence sorter LS-OD-50-04-01 is a diamond recovery machine designed for treatment of WET material with size range -50+10 mm.

Main specification		
Size fraction, mm	-50+20	-20+10
Throughput, kg/h	1500	500
Yield per 10 ejections, grain	15	18
Recovery rate, %	98.5	
Type of material	wet	

Material feeding and detection system		
Material feed	Vibrating feeder	
Flow	2	
X-ray tube	2	
Photomultiplier	4	

Sorter's supply		
Power consumption, kVA (single phase, 220V/50Hz) 6		
Technical water consumption, not more than, I/min 30		
Cooling water consumption, not less than, I/min		
Consumption of per 1 ejection, I		
compressed air nominal productivity, I/min		
	onsumption, not more than, I/min sumption, not less than, I/min per 1 ejection, I	



	Dimensions, mm	Weight, kg
Sorting machine	1755x877x1900	1157
Automatic control rack	765x555x1745	230



LS-OD-50-04-02

Final concentrate retreatment

-20+5 mm

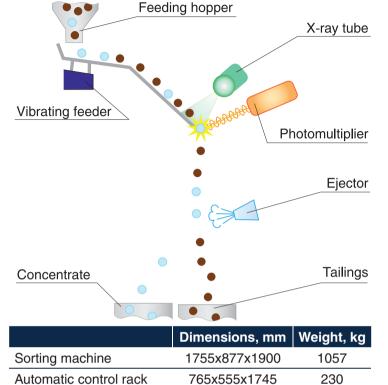
New product

X-ray luminescence sorter LS-OD-50-04-02 is a diamond recovery machine designed for treatment of WET material with size range -20+5 mm.

Main specification		
Size fraction, mm	-20+10	-10+5
Throughput, kg/h	500	250
Yield per 10 ejections, grain	15	18
Recovery rate, %	98.5	
Type of material	W	et

Material feeding and detection system	
Material feed	Vibrating feeder
Flow	4
X-ray tube	1
Photomultiplier	4

Sorter's supply		
Power consumption, kVA (single phase, 220V/50Hz) 6		
Technical water consumption, not more than, I/min 30		
Cooling water consumption, not less than, I/min 3		
Consumption of per 1 ejection, I 0.92		0.92
compressed air nominal productivity, I/min 80		80



LS-OD-50-04-03

Final concentrate retreatment

-20+5 mm

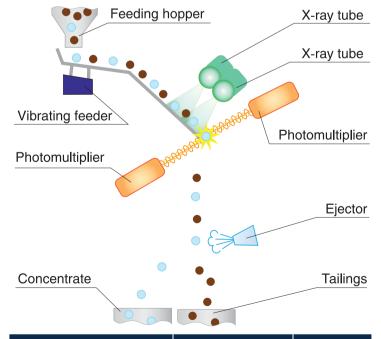
New product

X-ray luminescence sorter LS-OD-50-04-03 is a diamond recovery machine designed for treatment of WET material with size range -20+5 mm.

Main specification		
Size fraction, mm	-20+10	-10+5
Throughput, kg/h	500	250
Yield per 10 ejections, grain	15	18
Recovery rate, %	98.5	
Type of material	W	et

Material feeding and detection system	
Material feed	Vibrating feeder
Flow	4
X-ray tube	2
Photomultiplier	8

Sorter's supply		
Power consumption, kVA (single phase, 220V/50Hz) 6		6
Technical water consumption, not more than, I/min 30		
Cooling water consumption, not less than, I/min 6		6
Consumption of per 1 ejection, I 0.92		0.92
compressed air nominal productivity, I/min 80		80



	Dimensions, mm	Weight, kg
Sorting machine	1755x877x1900	1057
Automatic control rack	765x555x1745	230



LS-D-4-03N

Concentrate retreatment

-6+1 mm

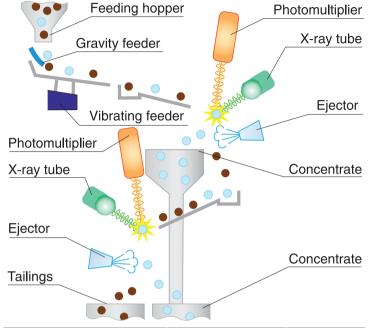
Legacy product

X-ray luminescence sorter LS-D-4-03N is a diamond recovery machine designed for treatment of WET material with size range -6+1 mm.

Main specification		
Size fraction, mm	-6+3	-3+1
Throughput, kg/h	5000	1300
Yield per one ejection, g	40	13
Recovery rate, %	98	95
Type of material	W	et

Material feeding and detection systemMaterial feedGravitation /Vibrating feederFlow4X-ray tube2Photomultiplier8

Sorter's supply		
Power consumption, kVA (single phase, 220V/50Hz) 5		5
Technical water consumption, not more than, I/min 40		40
Cooling water consumption, not less than, I/min 6		6
Consumption of per 1 ejection, I 0.		0.7
compressed air nominal productivity, I/min 50		50



	Dimensions, mm	Weight, kg
Sorting machine	2060x880x2805	1450
Automatic control rack	765x555x1745	230

LS-D-4-03NL

Concentrate retreatment

-6+1 mm

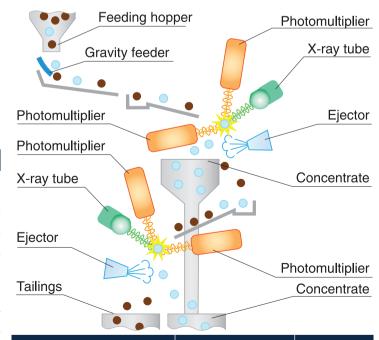
New product

X-ray luminescence sorter LS-D-4-03NL is a diamond recovery machine designed for treatment of WET material with size range -6+1 mm.

Main specification		
Size fraction, mm	-6+3	-3+1
Throughput, kg/h	5000	1300
Yield per one ejection, g	40	13
Recovery rate, %	98	95
Type of material	W	et

Material feeding and detection system	
Material feed	Gravitation feeder
Flow	4
X-ray tube	2
Photomultiplier	16

Sorter's supply		
Power consumption, kVA (single phase, 220V/50Hz)		
Technical water consumption, not more than, I/min		
Cooling water consumption, not less than, I/min		6
Consumption of per 1 ejection, I		0.7
compressed air	nominal productivity, I/min	50



	Dimensions, mm	Weight, kg
Sorting machine	2060x880x2805	1500
Automatic control rack	765x555x1745	230



LS-D-4-03P

Concentrate retreatment

-6+1 mm

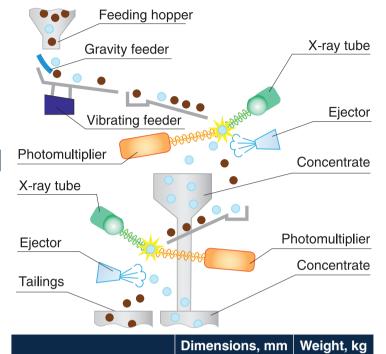
Legacy product

X-ray luminescence sorter LS-D-4-03P is a diamond recovery machine designed for treatment of WET material with size range -6+1 mm.

Main specification		
Size fraction, mm	-6+3	-3+1
Throughput, kg/h	400	170
Yield per one ejection, g	1	0.5
Recovery rate, %	99	95
Type of material	wet	

Material feeding and detection system		
Material feed	Gravitation /Vibrating feeder	
Flow	4	
X-ray tube	2	
Photomultiplier	8	

Sorter's supply		
Power consumption, kVA (single phase, 220V/50Hz)		
Technical water consumption, not more than, I/min		
Cooling water consumption, not less than, I/min		6
Consumption of per 1 ejection, I		0.16
compressed air	nominal productivity, I/min	15



LS-D-4-04N

Concentrate retreatment

-6+1 mm

Legacy product

700

230

1190x790x2485

765x555x1745

X-ray luminescence sorter LS-D-4-04N is a diamond recovery machine designed for treatment of DRY material with size range -6+1 mm.

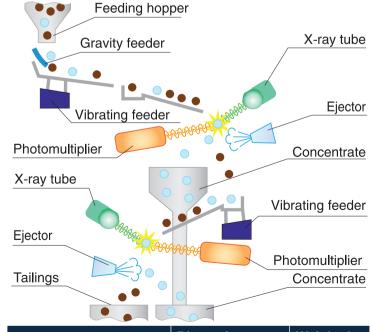
Sorting machine

Automatic control rack

Main specification		
Size fraction, mm	-6+3	-3+1
Throughput, kg/h	600	300
Yield per one ejection, g	2	1
Recovery rate, %	g	98
Type of material	d	ry

Material feeding and detection system		
Material feed Gravitation /Vibrating feeder		
Flow	4	
X-ray tube	2	
Photomultiplier	8	

Sorter's supply		
Power consumption, kVA (single phase, 220V/50Hz)		
Technical water consumption, not more than, I/min		
Cooling water consumption, not less than, I/min		6
Consumption of	per 1 ejection, l	0.16
compressed air	nominal productivity, I/min	15



	Dimensions, mm	Weight, kg
Sorting machine	1000x670x1970	600
Automatic control rack	765x555x1745	230



LS-OD-6

Final concentrate retreatment

-6+0.5 mm

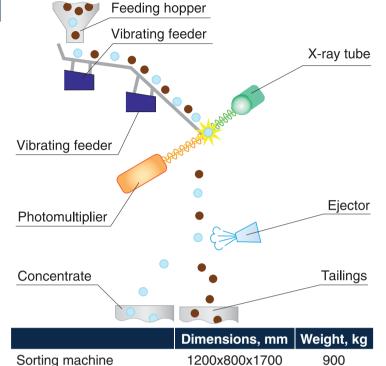
Legacy product

X-ray luminescence sorter LS-OD-6 is a diamond recovery machine designed for treatment of DRY material with size range -6+0.5 mm.

Main specification			
Size fraction, mm	-6+3	-3+1	-1+0.5
Throughput, kg/h	50	12.5	2
Yield per 10 ejections, grain	30	45	45
Recovery rate, %	98	96	90
Type of material		dry	

Material feeding and detection system		
Material feed	Vibrating feeder	
Flow	4	
X-ray tube	1	
Photomultiplier	4	

Sorter's supply		
Power consumption, kVA (single phase, 220V/50Hz)		
Technical water consumption, not more than, I/min		
Cooling water consumption, not less than, I/min		3
Consumption of per 1 ejection, I		0.12
compressed air	nominal productivity, I/min	120



LS-OD-6L

Final concentrate retreatment

-6+0.5 mm

New product

230

765x555x1745

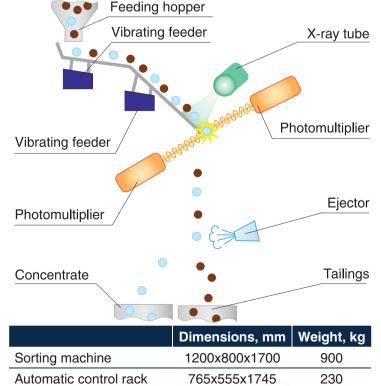
X-ray luminescence sorter LS-OD-6L is a diamond recovery machine designed for treatment of DRY material with size range -6+0.5 mm.

Sorting machine
Automatic control rack

Main specification			
Size fraction, mm	-6+3	-3+1	-1+0.5
Throughput, kg/h	50	12.5	2
Yield per 10 ejections, grain	30	45	45
Recovery rate, %	98	96	90
Type of material		dry	

Material feeding and detection system		
Material feed	Vibrating feeder	
Flow	4	
X-ray tube	1	
Photomultiplier	8	

Sorter's supply		
Power consumption, kVA (single phase, 220V/50Hz) 3		
Technical water consumption, not more than, I/min -		
Cooling water consumption, not less than, I/min		3
Consumption of per 1 ejection, I		0.12
compressed air nominal productivity, I/min 1		120



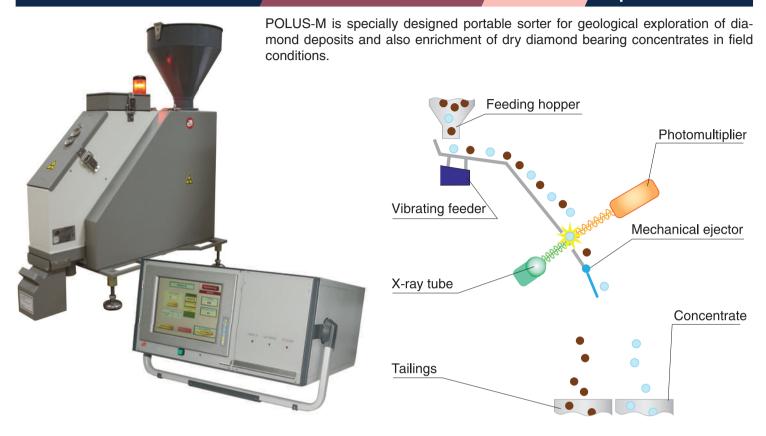


POLUS-M

Portable sorter

-8+0.5 mn

Legacy product



The sorter consists of the sorting machine and the control unit.

The registration unit and the X-ray source are placed on opposite sides of the material flow.

Access to the transport channel is through the removable doors. It allows operation in field conditions. Neither water nor compressed air are required.

Technical specifications

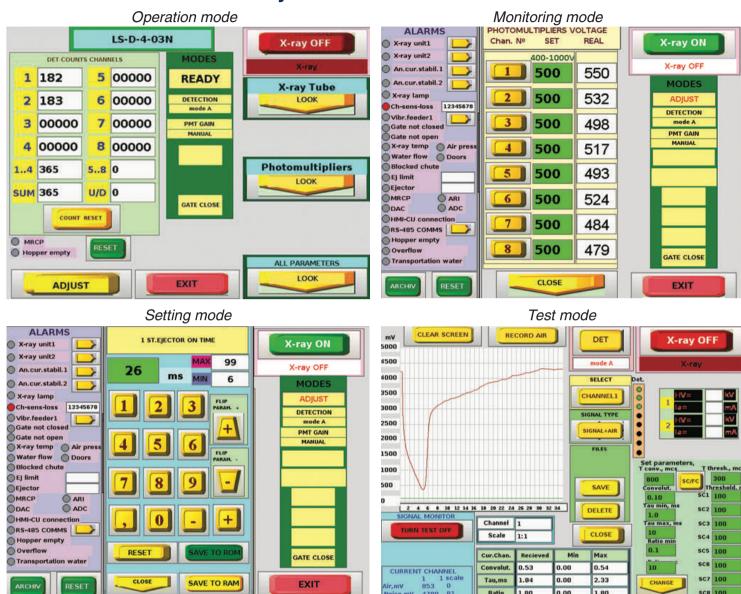
Size fraction, mm	-8+5	-5+2	-2+1	-1+0,5
Throughput, kg/h	100	50	30	15
Yield per one ejection, not more than, g	2.2	1.7	1	0.5
Recovery rate, not less than %		S	98	

	Sorting machine	Control uni
Overall dimensions (LxWxH), mm	635x300x590	490x440x290
Net weight, kg (without packaging)	36.5	15
Power consumption, VA	20	00
(single phase, 220 V/50 Hz)	31	00
Operating temperature range, C°	+5+45 with the relati	ve humidity up to 80%

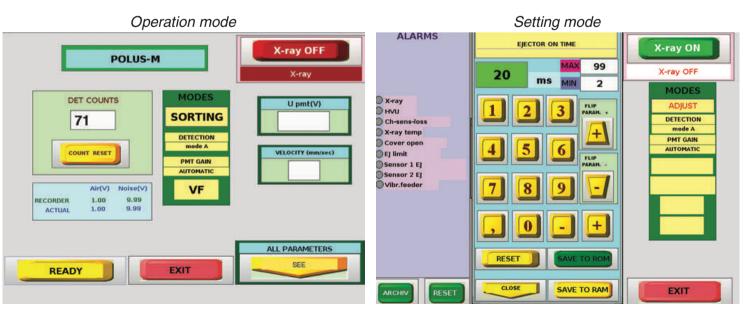
Specially designed construction of the sorter totally protects against the X-ray. Each unit is being tested for safety.



Software interface of X-ray luminescence sorters



Software interface of POLUS-M



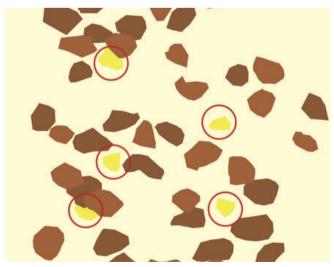


X-ray transmission sorters for diamond recovery



X-ray transmission (XRT) sorters, as well as luminescence sorters, are radiometric sorters used for treatment of diamond-bearing ore.

Principle of operation of X-ray transmission sorters is based on the property of the materials to absorb X-ray radiation. A diamond consisting of carbon, which is light element with atomic number 6, absorbs less X-ray radiation comparing to the ancillary minerals, which contain heavier elements such as silicon, calcium, magnesium, oxygen, iron, etc.



Example of transmission image with rock particles and diamonds (marked with the circle)

In case of X-ray transmission sorters X-ray radiation is being measured by special sensors after it passes through the particle of mineral. Depending on the intensity of the radiation passed through the particle of mineral we can make the conclusion about atomic number of elements contained in the analyzed mineral. Since a diamond consists of light element carbon, the intensity of radiation passed through it will be higher, comparing to the radiation intensity passed through the particle of ancillary mineral (in case of the same thickness of the particles).

In order to avoid the influence of different thicknesses of the particles to the measurements' result, we perform consistent measurements for two different values of X-ray radiation energies.

Currently "Bourevestnik", JSC offers two models of X-ray transmission sorters for the enrichment of dry diamond-bearing material with size fractions -6 +1 mm:

- concentrate retreatment sorter RGS-2;
- final concentrate retreatment RGS-OD-3.



RGS-2

Concentrate retreatmen

-6+3 mm

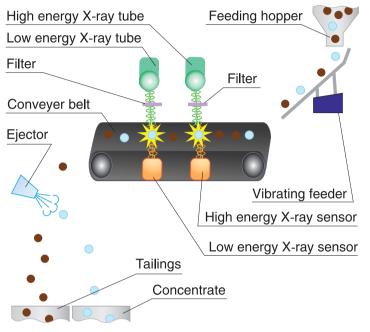
New product

X-ray transmission sorter RGS-2 is a diamond recovery machine designed for concentrate retreatmen of DRY material with size range -6+3 mm.

Main specification	
Size fraction, mm	-6+3
Throughput, kg/h	1200
Yield per one ejection, mg	750
Recovery rate, %	98
Type of material	dry

Material feeding and detection system		
Material feed	Vibrating feeder	
Flow	4	
X-ray tube	2	
Sensor	2	

Sorter's supply	
Power consumption, kVA (single phase, 220V/50Hz)	8
Technical water consumption, not more than, I/min	-
Cooling water consumption, not less than, I/min	12
Consumption of compressed air per 1 ejection, I	0.1



	Dimensions, mm	Weight, kg
Sorting machine	2900x970x2094	1185
Automatic control rack	1125x940x2150	290

RGS-OD-3

Final concentrate retreatment

-3+1 mm

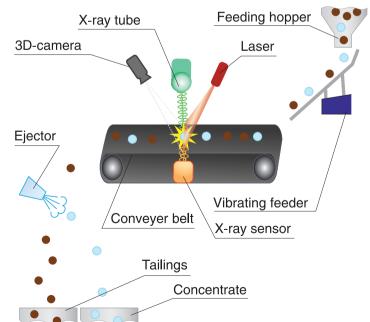
New product

X-ray transmission sorter RGS-OD-3 is a diamond recovery machine designed for final concentrate retreatment of DRY material with size range -3+1 mm.

Main specification	
Size fraction, mm	-3+1
Throughput, kg/h	50
Yield per one ejection, mg	30
Recovery rate, %	99
Type of material	dry

Material feeding and detection system		
Material feed	Vibrating feeder	
Flow	1	
X-ray tube	1	
X-ray sensor	1	
Laser sensor	1	

Sorter's supply	
Power consumption, kVA (single phase, 220V/50Hz)	3.5
Technical water consumption, not more than, I/min	-
Cooling water consumption, not less than, I/min	
Consumption of compressed air per 1 ejection, I	0.01



Difficitions, filling	weight, kg
2270x800x1750	800
1110x805x1700	340



Additional equipment for the diamond mining industry





Apart from the sorters for diamonds recovery, "Bourevestnik", JSC designs and produces a wide range of equipment for diamond mining industry.

One of the Bourevestnik products is analyzer of minerals luminescence kinetics UOK-2, which is designed for analysis of kinetic parameters of luminescence of diamonds and associated minerals. UOK-2 allows to measure and store the data which can be used for:

- Analysis of concentratibility of diamond-bearing materials in different mines and during the recovery process on the particular mine;
- Proper selection and adjustment of the settings used in the Bourevestnik sorters;
- Controlling of operation of Bourevestnik luminescence sorters.

The range of Bourevestnik glove boxes is designed for manual sorting of diamond bearing material at final treatment stages of diamond mining plants and drags.



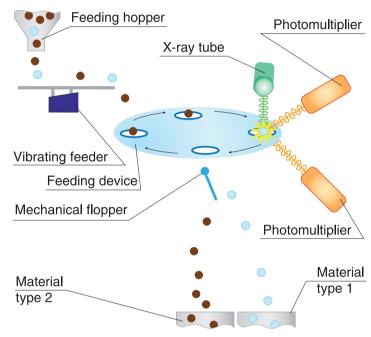
UOK-2 -20+1 mm Legacy product

UOK-2 is specially designed for measuring numerical kinetic parameters of luminescence of diamonds and associated minerals. Obtained data are used for calibration of the Bourevestnik sorters.

UOK-2 is based on property of diamonds to luminesce under the X-ray. Analyzer distinguishes diamonds from other associated luminescent minerals and also can measure characteristics with registration of luminescence of an object from both

sides: irradiation and opposite.



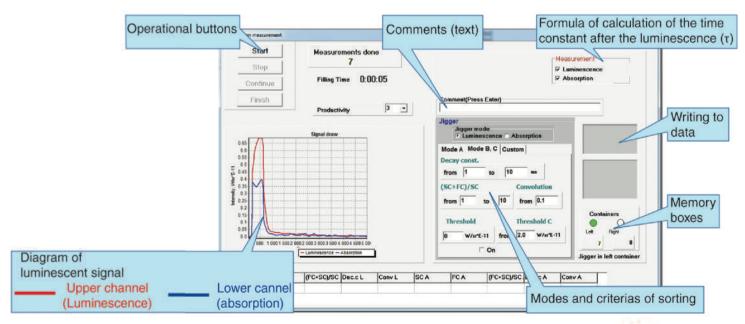


Main specification					
	In automat	In manual feed mode			
Size fraction, mm	-6+3	- 3 + 1	- 20		
Throughput	up to 1200 samples per hour				
Sampling	by particles, measuring by 12 param- eters				
Type of material	dry				

Supply				
Power consumption, VA (single phase, 220 V / 50 Hz)	not more than 200			
Operating temperature range	+10+35°C with the relative humidity up to 80%			
Dir	mansions mm	Woight kg		

	Dimensions, mm	Weight, kg
Sorting machine	510 x 410 x 570	75
Control unit	480 x 500 x 220	30

Software interface





Glove box -50+1 mm Legacy product



The range of Bourevestnik glove boxes is designed for manual sorting of diamond bearing material at final treatment stages of diamond mining plants and drags.

Glove boxes are used:

- to perform manual sorting of dry and watered concentrates;
- to prevent unauthorized access to diamond-bearing raw materials;
- to guarantee safety of the final product by preventing contact with an operator.

We produce 4 versions of glove boxes which differ in dimensions, material handling gear, number of operators' positions, and fineness of raw materials.

	Modification					
	SM-209	SM-212	SM-219	SM-220		
Number of operators' positions	2	1	2	1		
Overall dimensions, not more than, mm	1105x1265x1270	1185x865x1535	1750x1101x1525	1400x855x1535		
Net weight, not more than, kg	135	110	320	175		
Operation surface, mm	900x660	800x530	900x660	800x600		
Material handling gear	Adjustable slide damper	Adjustable slide damper	Vibrating feeder	Damper controlled by stepper motor		
Fineness of raw material, mm	-25 +1	-25 +1	-25 +3	-50 +2		
Possibility of integration		Vaa	Voc	Yes		
into SCADA	No	Yes	Yes			



X-ray sorters questionnaire

Request	date:									
					t to our X-Ray s ask you to fill u					r to ensure
1. Conta	ct Info	ormatic	n:							
Company name	e:									
Contact person:										
Contact phone r	number: _									
2. Inform	ation	of the	planned	purchase	e:					
Expected purch	ase perio	d <u>:</u>								
Purchase purpo	se:			l'm E	nd User		Resale			
Preferable delive	ery terms	(Incoterms):								
Preferable fright	mode:			Airfre	eight er, more expensiv		Sea freig	jht cheaper)		
3 Do vou	ı have	anv e	vnerienc		king with >			. ,		
			•		•	_				
	•	•		ced by other ma		Don't have	any exp	enence		
if you have work	kea with X	-Hay Sorter	s, produced by	otner manutact	urers, please spe	city the brand:				
4. Location Country: 5. What is Type of deposit:	s the t		Closest city:		Nam terial? Alluvial gravel					_
Type of material	: <u> </u>	Run-of-mi	ne material	Retreat	tment of tailings		Retreat	ment of co	oncentrate)
6. What i	mater	ial size	fraction	s are you	going to	process	?			
Fraction 1	Max size, mm	Min size, mm	% of all frac- tions	Throughput, tph		Fraction	Max size, mm	Min size, mm	% of all frac- tions	Through- put, tph
Fraction 2					EVAMBLE	Fraction 1	-50	+20	40%	40 tph
Fraction 3					EXAMPLE	Fraction 2	-20	+10	60%	60 tph
Fraction 4								Total:	100%	100 tph
Fraction 5					1					
		Total:	100%		1					
7. Additio	onal Ir	nforma	tion and	requirem	ents:					



Analytical instruments

Multifunctional X-ray Diffractometers





X-ray diffraction is the dactyloscopy in material science, a reliable non-destructive technique of identification of crystalline matter.

DRON-7 and DRON-8 multifunctional X-ray diffractometers are powerful tools for qualitative and quantitative phase analysis, crystal structure characterization and determination of crystal orientation.

Features:

- High reliability and easy use
- · Automation of adjustment and data collection
- Support of different X-ray optical schemes and measurement techniques
- Flexible configuration and wide range of options.

Specially designed DRON-7M model is released from radiation inspection. There are no specific requirements to installation area and personnel.

Multi-purpose X-ray Fluorescence Analyzer BRA-135F

The analyzer is intended for determination of the chemical elements in the range of ⁹F to ⁹²U in solid, powdery and liquid samples.

The operation of analyzer is based on exciting the fluorescence radiation of the sample atoms by the X-ray tube radiation. Determination of elements concentration is based on the quantity of registered by high performance SDD detector photons with various energies.

The vacuumized measurement chamber provides high analytical characteristics in the range of light elements from ⁹F to ¹⁷Cl. Low limit-of-detection (from 10 ppm) is achieved by high aperture and optimally selected filters of X-ray optical system.

The Analyzer BRA-135F has an excellent combination of low cost-of-ownership with high analytical capabilities for detecting a wide range of elements.



X-ray Fluorescence Sulfur Analyzers ASE-2 and ASW-2



The Energy-Dispersive (EDX) Analyzer ASE-2 and Wavelength-Dispersive (WDX) Analyzer ASW-2 are specially designed for rapid analysis of sulfur concentration in oil products. The high speed of analysis combined with low range of detection (5 ppm) and built-in printer, makes Analyzers ASE-2 and ASW-2 an optimal solution for quality assessment in express laboratories.

Analyzers ASE-2 and ASW-2 complies with the most popular international standards for sulfur measurements.



On-stream X-ray Analyzer AR-35



The Analyzer AR-35 is intended for on-stream XRF analysis of suspension and pulp-products of technological processes of ore processing. AR-35 can simultaneously determine 8 chemical elements in technological product that saves time and reduces the cost of element determination.

The AR-35 is designed to replace labor-intensive and time-consuming laboratory analysis of samples for control of technological process. The high accuracy and possibility of monitoring chemistry up to 15 fluid flows in realtime makes the analyzer AR-35 a central element in the automated control system of technological process on mining processing plants, metallurgy plants and chemical productions.

Special-purpose Wavelength-dispersive Analyzer ARF-7



The Analyzer ARF-7 is intended for high-accuracy measurement of quantities of U, Th, Au, W, Tl, As, Pb, and other elements in ores, rocks and at industrial mining.

To get the best spectral resolution, the analyzer is based on the Cauchois method.



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