



## SCREENING

Saint-Petersburg, 2020



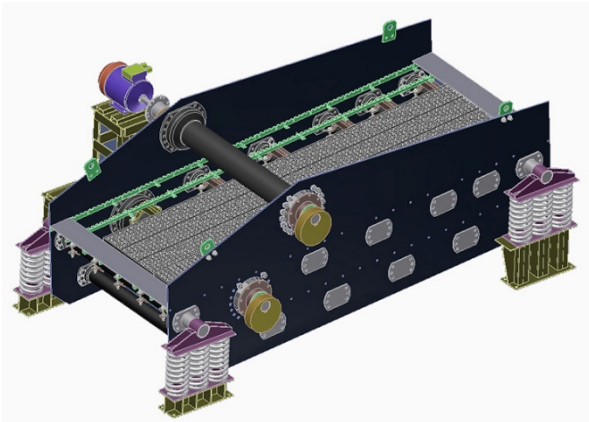
## SCREENS

RIVS produces screens for **dry and wet classification** of rough materials in mining, construction and other industries with a bulk density of materials up to  $2.8 \text{ t/m}^3$ .

To ensure efficient and durable operation of vibrating screens, we use modern **methods of mathematical modeling** using both commercial and proprietary software.

### WE GUARANTEE :

- + high efficiency of materials' size classification;
- + high reliability of units operation;
- + quick replacement of screening surfaces;
- + reduced sound pressure level due to the use of rubber coatings and casings;
- + reduction of vibration loads on ceilings during operation due to the selection of dynamic parameters of operation and stiffness of support springs;
- + possibility of remote adjustment and process control.



Parameter description	1GRS	2GRS	1GRS	2GRS	2GRS	2GRS
	1,25x2,5	1,25x2,5	1,5x3,0	1,5x3,5	1,75x4,0K	1,75x4,5
*Feed rate (adjustable), t/h, max	250	250	400	400	500	500
Size of source material pieces, mm, max	120	120	120	120	120	120
Deck plate dimensions, mm						
B1						
L1	1250	1250	1500	1500	1750	1750
	2800	2500	3000	3000	3500	4000
**Number of sieves, pcs	1	2	1	2	2(1)	2
Incidence angle, degrees, within limits	0...10	0...10	0...10	0...10	2...10	2...10
Vibration amplitude, mm	4...6	4...6	4...6	4...6	4...6	4...6
Drive power, kW	2x5,5	2x5,5	2x7,5	2x7,5	2x11	2x11
Overall dimensions (at angle 0°), mm						
L	2885	2870	3575	3620	4020	4710
B	2475	2335	2750	2800	3195	3195
H	1240	1345	1635	1635	1820	1820
Weight, kg	2500	3000	3500	4600	6100	6750

\* Screening performance is subject to specification of screened material and classification requirements.

\*\* The design of double-deck screens allows their operation in a single-deck design.

## DOUBLE-IMPACT VIBRATING SCREENS

### PURPOSE

Dry and wet classification of bulk materials with a maximum particle size of up to 200 mm.

Screening surface area from 3 to 21 m<sup>2</sup>.

### STRUCTURAL FEATURES

Double-impact screens have a straight or similar vibration trajectory of a box installed horizontally or at a slight angle of inclination, which allows maximizing efficiency of screening.

Parameter description	2GRS 2x5HO	2GRS 2x5H	2GRS 2,5x6,0***	1GRS 3x7
*Feed rate (adjustable), t/h, max	650	650	1000	1500
Size of source material pieces, mm, max	120	120	250	200
Deck plate dimensions, mm				
B1	2000	2000	2500	3000
L1	5000	5000	6000	7000
**Number of sieves, pcs	2(1)	2	2	1
Incidence angle, degrees, within limits	4	4	0...6	4
Vibration amplitude, mm	4...6	4...6	4...6	4...6
Drive power, kW	2x18,5	2x18,5	2x22	2x30
Overall dimensions (at angle 0°), mm				
L	6325	5640	6830	7325
B	3695	3545	4030	4780
H	2340	1985	3050	3040
Weight, kg	11000	11000	17600	15000

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\*\*\* Layout diagram with attachable vibrators

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Parameter description	GRI 0,56x2,0	1GRI 1,25x2,5	GRI 1,5x3,0		GRI 1,75x4,0		GRI 2,0x4,0		GRI 2,5x5,5
Feed rate (depending on the size classification), t/h	60	200	850	270	1750	1000	1940	500	2500
Maximum feed size of piece, mm	200	200	200	150	400	120	200	150	400
Deck plate dimensions, mm									
B1									
L1	560 2000	1250 2250	1500 3000	1500 3000	1750 4000	1750 4000	2000 4000	2000 4000	1500 3000
Number of sieve banks, pcs	1	1	1	2	1	2	1	2	1
Incidence angle, degrees	15	20...25	15...30	15...30	15...25	15...25	30	20	20...25
Vibration amplitude, mm	4...6	4...6	3...6	3...6	7...10	4...6	5...6	5...6	4,5...6
Drive motor power, kW	4,0	11,0	11,0	15,0	18,5	22	30	22	30
Overall dimensions (at angle 15 degees), mm									
L	2180	2315	3580	3840	3840	3820	3690	4115	5840
B	1615	2700	3070	3085	3085	3400	3750	3695	4260
H	1500	1520	2560	3055	3055	2185	3060	2460	3485
Weight, kg	1390	2600	3300	3500	5000	7500	7000	7300	12265

## UNBALANCED-THROW SCREENS

### PURPOSE

Dry and wet classification of bulk materials with a maximum particle size of up to 400 mm.

Screening surface area from 3 to 21 m<sup>2</sup>.

### STRUCTURAL FEATURES

Unbalanced-throw screens have a circular trajectory of vibrations of the box installed at an angle to the horizon. The screen can be made with steam heating of the deck plate.



**THANK YOU FOR YOUR ATTENTION!**

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