KB INTEL

UKRAINE

SCREENING EQUIPMENT

ABOUT US

The Ukrainian research and production company KB INTEL has been present on the market of vibration screening equipment since 1993 and has established itself as a dynamically developing one, focused on finding new solutions in the design of vibration devices for the dimensional classification of dry and low-moisture bulk materials and solid phase of aqueous slurries. Round high-frequency vibrating sieves KB Intel allow to classify materials that are traditionally classified as "difficult to sift": prone to agglomeration, poly- and highly dispersed, sticky, wet.

KB INTEL equipment is used in various industries: mining, processing, food, pharmaceutical, etc. and successfully competes with the equipment of the world's leading manufacturers of vibration sifting devices.

KB INTEL builds relationships with Customers on the principles of mutual benefit and maximum satisfaction of the technical and technological requirements that they place on the ordered equipment.

WE OFFER:

- supply of vibrating screening equipment of our own design for thin and ultra thin screening;
- development and production and manufactures equipment that can be customized in accordance with the client's specifications.;
- testing of the Customer's materials on the available samples of equipment in the test center;
- technical support of the supplied equipment and delivery of components and spare parts.

INDUSTRIES OF APPLICATION:

- Food (sugar, salt, coffee granules, spices, starch, soybeans, powdered milk, chocolate powder, fruit juices, cocoa, chicken blood, fat, tea leaves, garlic powder)
- Construction (carbon black, sand, paint, chalk, plaster)
- Mining industry (coal, sludge, dumps, sand, suspension of ore)
- Chemical (abrasives, metal, iron powder, 3d powder)
- Pharmaceutical (lactose, cellulose, milling pharmaceutical powders)
- Ceramic (bentonite clay, slip, suspension of kaolin)
- Woodworking
- Pulp and paper
- Recycling water supply(Wastewater Clean-Up and Water Pollution Control Efficient recovery of usable solids, and water clean-up and re-use Effluent Streams)
- Waste recycling and athers.

TECHNICAL CHARACTERISTICS AND ADVANTAGES OF KB INTEL ROUND VIBRATING SCREENERS

- Possibility of simultaneous separation of the screened material into several fractions: up to 5 fractions.

KB Intel serially produces multi-deck vibrating screens - up to 4 decks.

- Less clogging of sieves.

In shale screens KB Intel due to high-frequency vibrations of high intensity and the use of special accessories, the clogging rate of the mesh cells is significantly reduced;

• High performance.

Up to 15 t / h, depending on the properties and characteristics of the original product;

• Highest screening efficiency.

System of high-frequency regulation of vibration acceleration;

• Budgetary.

Flexible pricing, low power consumption, highly efficient designs, minimal operating costs;

• Sophisticated design and high quality workmanship. KB INTEL products are used in food, pharmaceutical, chemical industries and meet all the requirements for such equipment

THE MAIN PROBLEMS THAT THE VIBRATING SCREENS WILL SOLVE

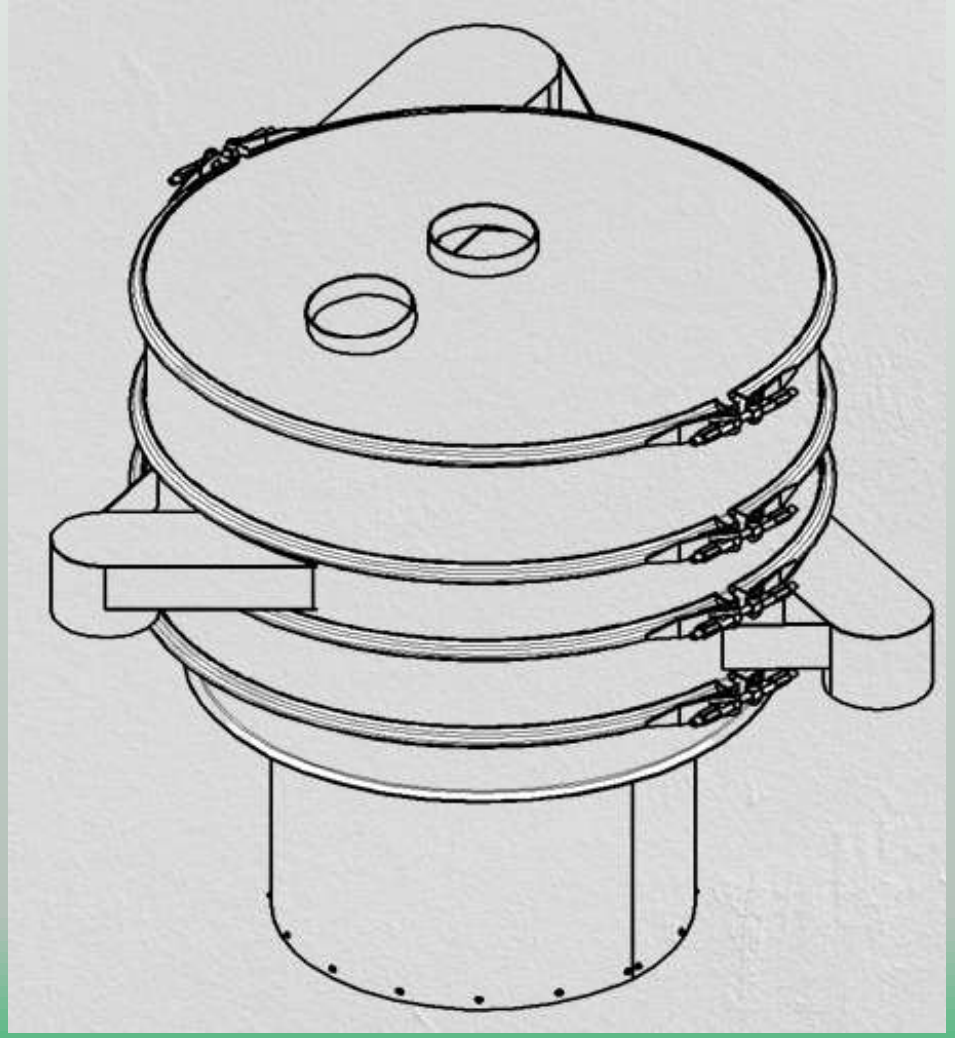
- Control screening of dry and low moisture slightly moist materials (screening of large particles, foreign inclusions) along the separation boundaries up to 20 microns;
- Classification (separation), along the separation boundaries up to 20 microns, dry, low moisture (up to 5%) materials and solid phase of aqueous slurries, including several fractions at the same time;
- Dewatering - separation of liquids from the solid phase of pulps;
- Filtration - cleaning liquids, solutions, oils from solid particles up to 30 microns in size;
- Laboratory sieve analyzes of samples of dry and low moisture materials.

FOOD INDUSTRY

The most common applications for our round vibrating sieve shakers in the food industry are:

- Dispersed powders and granular materials: cocoa, milk powder, flour, coffee, sugar, starch, spices, tea, salt, egg powder, etc;
- Separation of liquid materials: chocolate, juice, various oils, fats, etc. Calibration: crushed nuts, cereals, etc.

VIBRATING SIEVE FOR FRACTIONATION LARGE LEAF TEA AND GROUND COFFEE

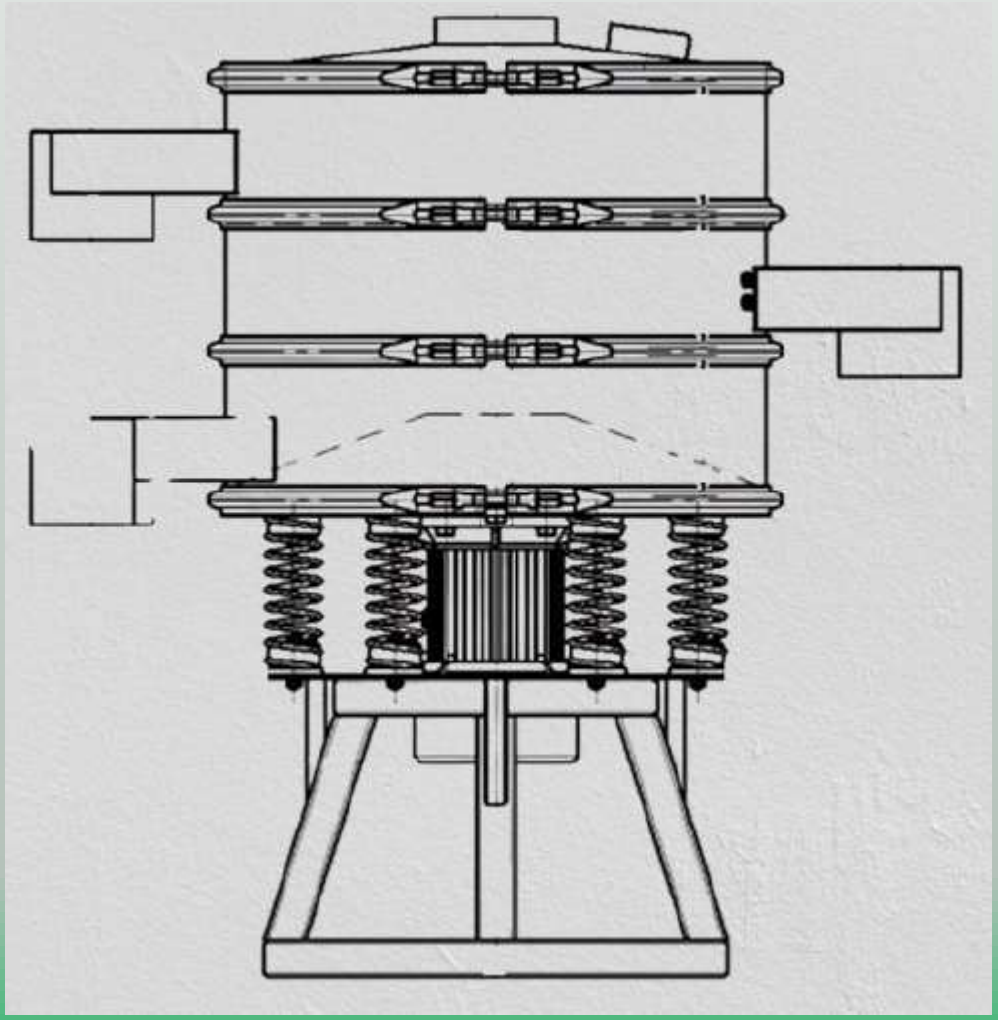


TECHNICAL SPECIFICATIONS VVU1.950.2HF

Name, dimension		Value
Number of decks, pcs		2
Deck area, m²		0,63x2
Mesh surface	Working mesh of mm, 6,0; 2,0; 1,25; 0,8 stainless mesh	1
Engine CM143P2		1
Electric power, kW		1,25
Centrifugal force, %		100
Design input vibrator power frequency, Hz		50
Frequency spectrum of the oscillations of the working mesh, Hz		50
Vertical amplitude of the vibrating screen body, mm		~3,0
Overall dimensions, mm Length x width x height		1405x1035x1310
Weight, kg		300




VIBRATING SIEVE
FOR SIFTING TABLE SALT



TECHNICAL SPECIFICATIONS VVU2.600.1HF

Name, dimension		Value
Number of decks, pcs		2
Deck area, m^2		0,28x2
Mesh surface	Working mesh of mm, 0,2; 0,35; 0,4; 0,63; 1,0; 1,6; 3,0; stainless mesh	1
Engine MVE 1100/15N SL-60AF		1
Electric power, kW		0,65
Centrifugal force, %		100
Design input vibrator power frequency, Hz		25
Frequency spectrum of the oscillations of the working mesh, Hz		25
Overall dimensions, mm Length x width x height		955x800x1000
Weight, kg		100

VIBRATING SCREEN FORSIFTING INSTANT COFFEE

TECHNICAL SPECIFICATIONS VVU2.600.1S

Name, dimension		Value
Number of decks, pcs		1
Deck area, m²		0,28
Mesh surface	Working mesh of mm, 6,0; 4,0; stainless mesh	1
Engine MVE		2
Electric power, kW		0,55
Centrifugal force, %		100
Design input vibrator power frequency, Hz		25
Frequency spectrum of the oscillations of the working mesh, Hz		25
Overall dimensions, mm height		550
Weight, kg		150

VIBRATING SIEVE FOR SIFTING BLOOD MEAL

TECHNICAL SPECIFICATIONS VVU2.800.P

Name, dimension		Value
Number of decks, pcs		1
Deck area, m²		0,5
Mesh surface	Working mesh of mm, 3,0; stainless mesh	1
Engine MVE		2
Electric power, kW		0,55x2
Centrifugal force, %		100
Design input vibrator power frequency, Hz		50
productivity kg/h		700
Overall dimensions, mm height		560
Weight, kg		185

VIBROSIEVE FOR FILTRATION OF CHICKEN FAT

TECHNICAL SPECIFICATIONS VVU2.1200.1HF

Name, dimension		Value
Number of decks, pcs		1
Deck area, m²		1,2
Mesh surface	Working mesh of mm, 1,0; stainless mesh	1
Engine MVE		2
Electric power, kW		1,5x2
Centrifugal force, %		100
Design input vibrator power frequency, Hz		50
Frequency spectrum of the oscillations of the working mesh, Hz		25
Overall dimensions, mm Length x width x height	1200x1540x1367	
Weight, kg		250

VIBRATING SIEVE FOR SIFTING BLOOD MEAL

TECHNICAL SPECIFICATIONS VVU2.800.1S

Name, dimension		Value
Number of decks, pcs		1
Deck area, m²		0,5
Mesh surface	Working mesh of mm, 1,0; stainless mesh	1
Engine MVE		2
Electric power, kW		0,55x2
Centrifugal force, %		100
Frequency spectrum of the oscillations of the working mesh, Hz		25-500
Overall dimensions, mm height		560
Weight, kg		125

VIBRATING SIEVE FOR SEPARATION AND PURIFICATION COCONUT FLAKES

TECHNICAL SPECIFICATIONS VVU1.800.2S

Name, dimension		Value
Number of decks, pcs		2
Deck area, m²		0,7x2
Mesh surface	Working mesh of mm, 0,7; stainless mesh	1
Engine MVE 1100/15N SL-60AF		1
Electric power, kW		0,9
Centrifugal force, %		100
Design input vibrator power frequency, Hz		25
Frequency spectrum of the oscillations of the working mesh, Hz		25
Overall dimensions, mm Length x width x heigh		1150x930x1256
Weight, kg		240

VIBRATING SIEVE FOR CONTROL SIFTING OF MILK POWDER AND BABY FOOD

TECHNICAL SPECIFICATIONS VVU2.1200.1HF

Name, dimension		Value
Number of decks, pcs		1
Deck area, m²		1,2
Mesh surface	Working mesh of mm, 0,5; stainless mesh	1
Engine MVE		2
Electric power, kW		0,75x2
Centrifugal force, %		100
Design input vibrator power frequency, Hz		25
productivity kg/h		2000
Overall dimensions, mm Length x width x height		1676x1475x950
Weight, kg		240

VIBRATING SIEVE FOR CONTROL SIEVING - GARLIC POWDER

TECHNICAL SPECIFICATIONS VVU1.600.1HF

Name, dimension		Value
Number of decks, pcs		1
Deck area, m²		0,6
Mesh surface	Working mesh of 300; stainless mesh	1
Engine MVE		1
Electric power, kW		0,65
Centrifugal force, %		100
Design input vibrator power frequency, Hz		50
productivity kg/h		25
Overall dimensions, mm Length x width x height		955x766x1143
Weight, kg		100

video http://www.kb-intel.com.ua/product/53/

TWIN-MOTOR SINGLE-DECK VIBRATING SIEVE VVU.950.C FOR CONTROL SIFTING GROUND GINGER. WITHOUT COVER. APPLIED STAINLESS MESH 2 MM WITH THE POSSIBILITY OF ITS OWN REPLACEMENT - BANDAGE STRUCTURE.

VIBRATING SIEVE SINGLE-DECK, SINGLE-ENGINE WITHOUT COVER FOR SIFTING ALMOND FLOUR

TECHNICAL SPECIFICATIONS VVU.800.1S

Name, dimension		Value
Number of decks, pcs		1
Deck area, m²		0,5
Mesh surface	Working mesh of mm, 2,0 stainless mesh	1
Engine MVE 1100/15N SL-60AF		1
Electric power, kW		0,9
Centrifugal force, %		12-30
Design input vibrator power frequency, Hz		50-56
Frequency spectrum of the oscillations of the working mesh, Hz		25
Overall dimensions, mm Length x width x height		1240x930x1100
Weight, kg		217

MINING INDUSTRY

Round three-deck single-motor vibrating screen VVu1500.31HF with a diameter of 1500 mm, for separation into four fractions: +6.0; -6.0 +1.5; -1.5 +0.4; -0.4mm crushed bentonite clay.

TECHNICAL SPECIFICATIONS VVU1.1500.3HF

Name, dimension		Value
Number of decks, pcs		3
Deck area, m²		1,77x3
Mesh surface	Working mesh of mm, 6,0; 1,5; 0,4; stainless mesh	1
Engine MTF 15/3810-S02-VRS-Italvibras		1
Electric power, kW		2,2
Centrifugal force, %		100
Design input vibrator power frequency, Hz		45-53
Frequency spectrum of the oscillations of the working mesh, Hz		25
Overall dimensions, mm Length x width x height		1615x2080x1442
Weight, kg		620

ROUND TWIN-ENGINE SINGLE-DECK VIBRATING SCREEN VVU1500.12HF FOR SCREENING KAOLIN SLURRY

TECHNICAL SPECIFICATIONS VVU1500.12HF

Name, dimension		Value
Number of decks, pcs		1
Deck area, m²		1,77x3
Mesh surface	Working mesh of mm, 0,3 stainless mesh	1
Engine MVE1100/1		2
Electric power, kW		0,75x2
Frequency spectrum of the oscillations of the working mesh, Hz		16,7
Overall dimensions, mm Length x width x height		2360x1800x1800
Weight, kg		520

ROUND TWIN-MOTOR SINGLE-DECK VIBRATING SCREEN VVU1200.12 HF WITH A FEEDER FOR SIFTING WATER-ORE SLURRY

NEW! **Single-engine two-deck vibrating screen VVU1500.21 with four outlets of the bottom product, for separation of water-sand slurry in the schemes of extraction of placer gold.**

The area of the useful surface of the deck is 1.5 m²;

Sieve mesh size: 2.0 mm (top deck); 0.8 mm (bottom deck);

Feeding capacity - not less than 150 cubic m³/h

Number of decks, pcs		2
Deck area, m²		1,77
Mesh surface	Working mesh of mm, 2,0;0,8; stainless mesh	1
MTF 15/3810-S02-VRS- Italvibras Зав.номер 171433796		1
Electric power, kW		2,2
Centrifugal force, %		100
Design input vibrator power frequency, Hz		50
Frequency spectrum of the oscillations of the working mesh, Hz		25
Overall dimensions, mm Length x width x height		2100x2080x1515
Weight, kg		615

CHEMICAL INDUSTRY

High-frequency single-deck single-motor screen VVu950.11HF for sieving for a plant producing mining and rescue equipment regenerative product KO2

Name, dimension		Value
Number of decks, pcs		1
Deck area, m²		0,63
Mesh surface	Working mesh of mm, 2,0 stainless mesh	1
Engine Engine MVE 1100/15N SL-60AF		1
Electric power, kW		0,9
Centrifugal force, %		30
Design input vibrator power frequency, Hz		50
Frequency spectrum of the oscillations of the working mesh, Hz		25
Overall dimensions, mm Length x width x height		1390x1080x1140
Weight, kg		180

CONSTRUCTION INDUSTRY

Round twin-motor single-deck vibrating screen VVu2.800S for sieving chalk, sulfate and dry building mixtures

SPECIFICATIONS VVU2.800.S

Name, dimension		Value
Number of decks, pcs		1
Deck area, m²		0,5
Mesh surface	Working mesh of mm, 1,2; stainless mesh	1
Engine Engine MVE		2
Electric power, kW		0,62x2
Design input vibrator power frequency, Hz		50
Overall dimensions, mm Length x width x height	1415x1080x680	
Weight, kg		150

ROUND TWIN-MOTOR SINGLE-DECK VIBRATING SCREEN VVU950.12 WITH CLEANING BUSHINGS FOR SIFTING DRY BUILDING MATERIALS

TECHNICAL SPECIFICATIONS VVU2.950.1S

Name, dimension		Value
Number of decks, pcs		1
Deck area, m²		0,7
Mesh surface	Working mesh of mm, 4,0; stainless mesh	1
Engine Engine MVE		2
Electric power, kW		0,64
Design input vibrator power frequency, Hz		50
Overall dimensions, mm Length x width x height		1600x1230x725
Weight, kg		185

ROUND SINGLE-DECK SINGLE-MOTOR VIBRATING SCREEN VVU950.S WITH CLEANING BUSHINGS FOR SAND DUST REMOVAL

TECHNICAL SPECIFICATIONS VVU1.950.S

Name, dimension		Value
Number of decks, pcs		1
Deck area, m²		0,7
Mesh surface	Working mesh of 100; stainless mesh	1
Engine Engine MVE 1100/15N SL-60AF		1
Electric power, kW		0,9
Centrifugal force, %		100
Design input vibrator power frequency, Hz		50
Frequency spectrum of the oscillations of the working mesh, Hz		25
Overall dimensions, mm Length x width x height		1390x1080x1140
Weight, kg		150

ROUND TWIN-ENGINE SINGLE-DECK VIBRATING SCREEN VVU1500.12HF FOR SIEVING GYPSUM. INCLUDED: CONTROL PANEL, FREQUENCY CONVERTER.

Name, dimension		Value
Number of decks, pcs		1
Deck area, m²		1,6
Mesh surface	Working mesh of mm, 0,5; stainless mesh	1
Engine MVE		2
Electric power, kW		0,55x2
Centrifugal force, %		100
Design input vibrator power frequency, Hz		25
Weight, kg		420

HIGH-FREQUENCY SINGLE-DECK SINGLE-MOTOR VIBRATING SCREEN VVU2.1200.1P FOR CONTROL SCREENING OF KAOLIN PULP BY CLASSES 0.3 ...0.5 MM. THE VIBRATING SCREEN FEEDING CAPACITY IS 90 M³ / H

TECHNICAL SPECIFICATIONS VVU2.1200.1P

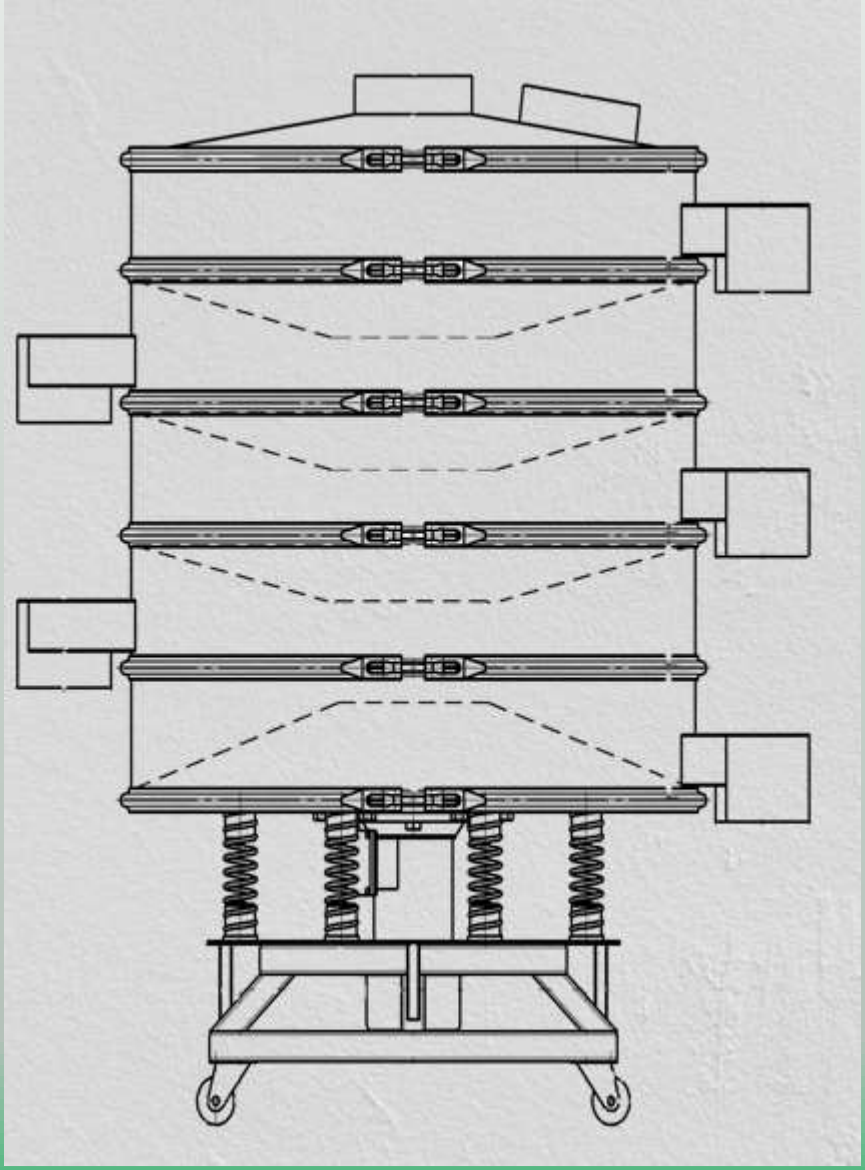
Name, dimension		Value
Number of decks, pcs		1
Deck area, m²		1,13
Mesh surface	Working mesh of mm, 0,3-0,5; stainless mesh	1
Engine MVE		2
Electric power, kW		0,5x2
Design input vibrator power frequency, Hz		50-500
Weight, kg		325

HIGH- FREQUENCY TWIN-MOTOR SINGLE-DECK VIBRATING SCREEN VVU2.1200.1HF FOR CONTROL SCREENING OF CALCIUM PROCESSING PRODUCTS

TECHNICAL SPECIFICATIONS VVU2.1200.1HF

Name, dimension		Value
Number of decks, pcs		1
Deck area, m²		1,13
Mesh surface	Working mesh of mm, 0,1;0,2;0,3; stainless mesh	1
Engine MVE1100/75		2
Electric power, kW		0,74x2
Centrifugal force, %		50
Design input vibrator power frequency, Hz		45-50
Frequency spectrum of the oscillations of the working mesh, Hz		25-150
Overall dimensions, mm Length x width x height	1675x1455x1220	
Weight, kg		240

OIL AND GAS INDUSTRY



Round vibrating sieve (vibration apparatus) AVRK-4 is a new development from KB Intel.

This model is a vibrating four-deck single-motor apparatus with a diameter of 1200 mm for classification catalyst systems into target fractions for reuse.

Name, dimension	Value
Number of decks, pcs	4
Deck area, m^2	1,2
Electric power, kW	2,2
Frequency spectrum of the oscillations of the working mesh, Hz	25
Weight, kg	680

(Vibrating apparatus) AVRK-4 is intended for sieving catalyst systems into target fractions for reuse, with simultaneous selection of dust and crumbs of catalysts. The device can be used for sifting various substances (material classification), for example, sand, bentonite clay, etc.

The principle of operation of this vibrating screen is as follows. An explosion-proof flanged motor-vibrator with an unbalanced shaft rotation frequency of 25 Hz, located in the longitudinal axis of the vibration machine, below its center of mass, generates short force pulses with a radial vector. These pulses provide a discrete movement of the sieved material over the surface of the sieves along an optimal spiral trajectory from the loading point to the place of unloading large particles (oversize product), while simultaneously passing fine particles (undersizing product) through the cells of the sieving surfaces.

The screening surfaces are woven stainless wire meshes and perforated stainless steel plates. Sets of meshes and perforated plates make it possible to form several options for sifting catalyst systems into different fractions. Different mesh sizes can be used depending on the material. The size of the meshes of the main and additional grids is indicated in the delivery set.

The shaker body is made of stainless steel. Therefore, this device has an increased service life. Working mesh material: stainless steel wire or perforated sheet. The working screens of the vibrating sieve have an increased service life and protection against clogging of the cells. Detachable joints of body parts AVRK-4 ensure their reliable and tight coupling, and, at the same time, allow replacement of sieves with a minimum of working time.

The vibrating sieve is equipped with a flange motor-vibrator made in Italy.

AVRK-4 is mounted on a wheel frame to facilitate its movement between technological positions. During operation, for safety reasons and to avoid parasitic vibrations, the frame of the apparatus is fixed on the retractable screw supports.

The operation of the vibration apparatus is controlled using a mobile control panel in an explosion-proof design.

The AVRK-4 model is quickly repaid due to increased productivity and efficiency, as well as accurate fractionation and reduced losses of useful product.

TECHNICAL SPECIFICATIONS ABRK-4

Name, dimension	Value
vibroscreen body parts material	stainless steel
Number of working decks	4
Size limitations, mm, L x W x H	2200x2200x1800
Screening surface	stainless steel perforated plates, mesh of stainless steel
Vibrating sieve design	hermetically sealed with the ability to connect an aspiration system and an inert gas supply; explosion-proof design
Method of feeding material to the vibroscreen	directly from the reactor
dosed supply	According to tests
Special requirements	Mobile version: the ability to fulfillment
Requirements for electric motors	Moisture-proof, explosion-proof, increased class of electrical protection. Operated in an open area, explosion hazard class according to NPAOP 40.1-1.3201 2 (V-1g), category and group of explosive mixtures according to NPAOP 40.1-1.3201 IIAT1, IIAT2, IIAT3, IIBT3.

PHARMACEUTICAL INDUSTRY

In the pharmaceutical industry, vibratory sieves are widely used to obtain the most uniform, in particle size, drug mixtures. At the same time, semi-finished medicinal products, the so-called pharmaceutical substances, are often very expensive material. Therefore, increased requirements are imposed on vibrating screens used in the pharmaceutical industry, both for the quality of the surfaces of body parts in contact with the sifted material (food polished stainless steels, rubber and polymers approved for use in the food industry, etc.), and for the quality of the sifting, in order to avoid the loss of a valuable product. The KB INTEL pharmaceutical series of vibrating screens is made in compliance with sanitary standards and fully meets the high requirements for this type of screening apparatus.

HIGH-FREQUENCY SINGLE-ENGINE TWO-DECK VIBRATING SCREEN VVU.800.1HF FOR CLASSIFICATION DRY PHARMACEUTICAL MIXTURES. EXECUTION: COMPLIANCE WITH THE FDA STANDARD, POLISHED SURFACES, MOBILE

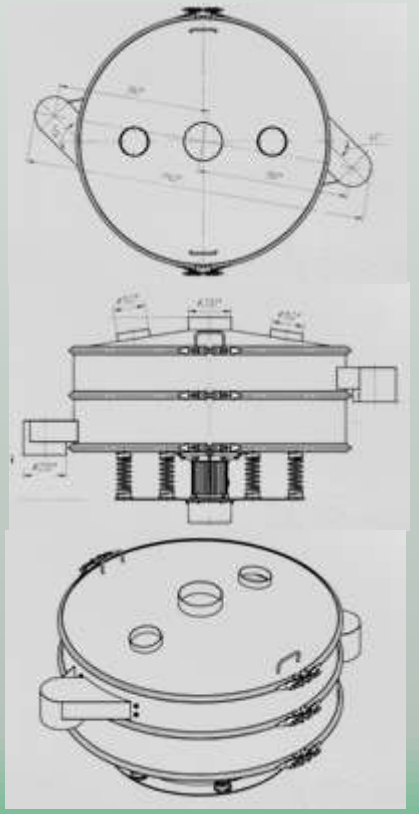
Name, dimension		Value
Number of decks, pcs		2
Deck area, m²		0,5
Mesh surface	Working mesh of mm, 0,25;0,5;0,7;1,0;1,5; stainless mesh	1
Engine MVE 1500/15N SL-60AF		1
Electric power, kW		0,9
Centrifugal force, %		12-30
Design input vibrator power frequency, Hz		50-56
Frequency spectrum of the oscillations of the working mesh, Hz		50
Overall dimensions, mm Length x width x height		1345x930x1200
Weight, kg		320

MOBILE TWO-DECK SINGLE-ENGINE VIBRATING SCREEN VVU600 FOR FRACTIONATION OF DRY PHARMACEUTICAL MIXTURES

FILTRATION. TREATMENT OF CIRCULATING AND WASTE WATER

RECYCLING WATER SUPPLY - AN ECONOMICAL SOLUTION FOR THE USE OF WATER RESOURCES

The recirculated water supply is a closed system that allows you to reuse treated wastewater that has passed the filtration process. Industrial enterprises are large consumers of fresh water, while at the enterprises in the technological processes of which there is the use of soluble and insoluble organic substances and other impurities, there is an urgent need to use filtration systems for circulating water supply and reduce the discharge of wastewater into water bodies.



Vibrating sieves KB INTEL for the purification of industrial circulating water supply allow solving environmental and economic problems of industrial enterprises: significantly reduce water consumption, ensure a continuous operation cycle and safety of equipment and pipelines for pumping and circulating industrial water.

Round one-deck single-engine vibrating screen VVU1200.1S with a sieving surface diameter of 1160 mm (S ≈ 1.05 m²). Designed for rough cleaning and separation of solid components from industrial circulating and waste water. Working mesh - nylon, mesh size 0.5x0.5 mm. Feeding capacity - not less than 40 m³ / hour.

Name, dimension		Value
Number of decks, pcs		1
Deck area, m²		1,05
Mesh surface	Working mesh of mm, 0,5; stainless mesh	1
Engine MVE 1500/15N SL-60AF		1
Electric power, kW		1,25
Design input vibrator power frequency, Hz		25
Frequency spectrum of the oscillations of the working mesh, Hz		50
Overall dimensions, mm Length x width x height	1388x1760x958	
Weight, kg		250

LABORATORY EQUIPMENT

Vibration sieve analyzer (BCA-1) consists of a housing with a working vibrating flange, on which are fitted with round sieve sets with a diameter 200 mm or 300 mm up to 10 pcs.

Sieve sets from one to 10 pcs. fixed on the flange and stand. The length of the racks is adjustable depending on the number of sieve. For wet processes the top sieve and bottom are equipped with a funnel and a fitting. Provided installation on the lid with a spray to ensure the flow of water onto the entire area of the top sieve. The entire set of sieves is installed on stand to ensure free drainage of water from the bottom bottom. Switch avtomatic on / off supplied included.

TECHNICAL SPECIFICATIONS OF THE SIEVE ANALYZER

- sieve diameter 200 mm or 300 mm;
- the number of sieves with a height of 500 mm in a set up to10 pcs;
- the maximum size of the sieved material is 10 mm;
- the minimum size of the holes in the sieve is 45 microns;
- overall dimensions 450 mm x 220 mm (without a set of sieves);
- the installed power of each electric vibrator is 100-200W;
- the number of revolutions 1500/3000 1/min at a current frequency of 50 Hz;
- vibration frequency 25 Hz;
- voltage of three-phase electric current: 220-380 V;
- weight without a set of sieves 45 kg.

OWN TEST CENTER

We invite you to visit our test center, Zheltye Vody, st. Gorkogo, 10, where the company's specialists are testing your materials within the tasks.

Based on the tests carried out, the company's employees give recommendations on selection of screening equipment, drawing up schemes for the dimensional classification of materials Customer for an operating or projected technological line.

The process of sieving your materials on our test equipment demonstrated for free.

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