Aerodynamic grain cleaner ERA

Aerodynamic grain cleaner ERA-5 is a modern grain cleaning machine designed for cleaning and calibration of grain material, preparation of seed. This machine will become an indispensable element in the system of any agrarian enterprise, where there is grain cleaning production.

The principle of aerodynamic separation, i.e. separation of grain material due to the effect of air flow on it, which is obtained due to the presence of a fan, rectifier and flow shaper in the machine. The separator separates the raw material into seven fractions: coarse (heavy) inclusions, high quality cleaned grain, small seeds and foreign inclusions. Under the influence of the air flow, all of this is transferred into various collectors and thus separates the quality grain from the impurities it contains.

ERA-5

SPECIFICATIONS

- Cleaning capacity, t/h - 5
- Calibration capacity, t/h - 2.5
- Power consumption, kW - 0,2-0,75
- Overall dimensions DxWxH, mm - 2000x500x1750
- Weight, kg - 130

ERA-10

SPECIFICATIONS

- Cleaning capacity, t/h - 10
- Calibration capacity, t/h - 5
- Power consumption, kW - 0,2-1,5
- Overall dimensions DxWxH, mm - 2200x1000x2200
- Weight, kg - 250

Aerodynamic grain cleaner ERA

ERA-40

SPECIFICATIONS

- Cleaning capacity,t/h - 40
- Calibration capacity, t/h - 20
- Power consumption, kW - 6
- Overall dimensions DxWxH, mm - 2350x1210x2400
- Weight, kg - 800

ERA-60

SPECIFICATIONS

- Cleaning capacity,t/h - 60
- Calibration capacity, t/h - 30
- Power consumption, kW - 9
- Overall dimensions DxWxH, mm - 2350x1810x2400
- Weight, kg - 1200

Advantages of the grain cleaner:

- improved air stream former, which improves grain sorting
- high quality in seed preparation
- high quality grain cleaning
- energy saving;
- only reliable, proven components;
- easy and quick adjustment of the separator operation (due to frequency converter)
- included bag holders, wheels, dust bag

Sieve grain cleaner RS

Universal complex air-sieve (flat-sieve) grain cleaning machine RS is designed for: preliminary, primary and secondary cleaning and calibration of grain, leguminous, oilseed and industrial crops, of various degrees of moisture and clogging.

Grain cleaning machine RS consists of: aspirator (air separator), flat sieve separator and control panel.

Additionally it can be equipped with cyclone and air duct.

The principle of operation of the RS separator makes it a multifunctional device!

The grain material passes through the aspiration system. The heaviest impurities that have entered the aspiration chamber are deposited in the sedimentation chamber. After aspiration, the grain is fed to the screen mill.

RS-2

CHARACTERISTICS

- Capacity,
  pre-cleaning, t/h - 2
  calibration, t/h -1
- Sieve size, mm - 790x495
- Overall dimensions DxWxH, mm - 1400x900x1650
- Power consumption, kW - 1,1
- Weight, kg - 120

RS-7

CHARACTERISTICS

- Capacity,
  pre-cleaning, t/h - 7
  calibration, t/h -5
- Sieve size, mm - 790x990
- Overall dimensions DxWxH, mm - 1500x1250x2100
- Power consumption, kW - 3
- Weight, kg - 450

Sieve grain cleaner RS-7

The RS-7 universal complex air-sieve (flat-sieve) grain cleaning machine is designed for: preliminary, primary and secondary cleaning and calibration of cereals, legumes, oilseeds and industrial crops with different degrees of moisture and contamination.

The RS-7 Grain Cleaning Machine consists of an aspirator (air separator), a flat-sieve separator and a control panel.

Additionally, it can be equipped with a cyclone and air duct.

The principle of operation of the RS-7 separator makes it a multifunctional device!

The grain material passes through the aspiration system. The heaviest impurities that get into the aspiration chamber are deposited in the sedimentation chamber. After aspiration, the grain is fed to the sieve mill.

SPECIFICATIONS

- Capacity:
  pre-cleaning, t/h - 7
  calibration, t/h - 5
- Sieve size, mm - 790×990
- Overall dimensions:
  length, mm - 1500
  width, mm - 1250
  height, mm - 2100
- Power consumption, kW - 3
- Weight, kg - 450

Sieve grain cleaner BSH

Separators of grain cleaning mark BSH are designed for cleaning grain (wheat, rye, oats, etc.) from impurities differing from it by geometrical dimensions and aerodynamic properties. Separators are installed as a part of technological schemes at mills, elevators and groat mills.

Grain separators consist of the following units: bed, body with sieve frames, traverse with balancing mechanism, sedimentation chamber, fan, fan drive, pneumatic channel, screws, feeder, outlet trays, and fence. The body is suspended from the bed on flexible hangers.

BSX grain cleaners are available in various configurations, including aspiration chamber, cyclone, pre-cleaner and many other options. This allows our customers to choose the configuration that best suits their needs and production conditions.

SPECIFICATIONS

CHARACTERISTIC	INDICATOR VALUE				
	BSH-12	BSH-25	BSH-40	BSH-50	BSH-80
Productivity is technical (for wheat with a moisture content of up to 15% and a content of clogged impurities up to 3%) - with preliminary cleaning (elevator mode) t/h	12	25	40	50	80
- during final cleaning (mill mode)	3	6	12	16	24
Efficiency of cleaning from clogged impurities, %, not less: (for wheat with a moisture content of up to 15% and a content of clogged impurities up to 3%) - with preliminary cleaning;	20	20	20	20	20
- during final cleaning	80	75	80	75	80
Installed power, kW, no more	1	1	1	1	2
Total air consumption, m3/hour, no more, including:	600	4000	4000	8200	8500
- for pneumatic separation;	-	3400	3400	7000	7300
- for aspiration of the body	600	600	600	1200	1200
Frequency of circular oscillations of the grating body, C-1	5	5	5	5	6
or (rpm)	325	325	325	325	325
Diameter of circular oscillations of the body, mm, no more	18±1	18±1	18±1	18±1	20±1
Overall dimensions of the separator without cyclone, mm, no more:					
- length	1530	1900	2457	1900	2457
- width	1185	1485	1485	2772	2772
- height	1440	2104	2154	2104	2154
Occupied area, m2, no more	1,6	2,5	3,2	4,7	6
Weight kg, no more	590	815	1015	1450	1583
Service life, years	8	8	8	8	8

Drum grain cleaner SB

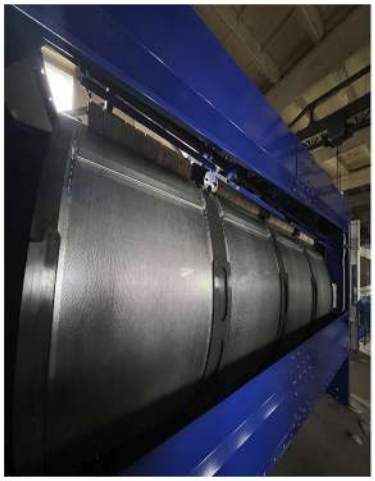
The grain cleaning machine is intended for the forward, primary and secondary cleaning of grains, legumes, cereals, and corn. At the stage of grain processing technology or the development of the machine for the following type of cleaning, the following cleaning is required:

• during preliminary cleaning – parts of straw, stems of plants, stones, spikelets, saws and other houses.

• during the initial purification - the same houses, as well as fragmented, puny, detailed grains of the main crop.

• during the second cleaning - all types of houses reinforced with a wind flow and perforated sheets.

	SB-50	SB-75	SB-100	SB-150
Capacity				
pre-cleaning, tonnes per hour	50	75	100	150
primary cleaning, tonnes per hour	25	40	60	100
calibration, t/h	7,5	11	15	20
Grid area, m2	8,5	12	12	16
Number of drum sections, pcs	3	4	3	4
Drum drive, kW	3	3	4	5,5
Weight, kg	1350	1650	2600	3000
Length, mm	4750	5755	2455	6700
Width, mm	1760	1760	2620	2452
Height, mm	2960	2960	2600	3590



Gravity table WT

The WT gravity table is designed for sorting grain according to its specific weight, and it can be successfully used even for cleaning grain that has started to sprout. - The main applications of this device include:

The main applications of this device include:

- Separation of grains affected by diseases and insects from healthy grains.
- Separation of conditioned sunflower seeds from light, damaged and sclerotia seeds.
- Separation of various grain mixtures such as wheat-barley, wheat-rye, wheat-triticale, maize-sunflower and others.

Our gravity tables are highly reliable in operation and easy to adjust to different types of crops. Moreover, our gravity table can be used to effectively clean grain that has started to sprout due to poor storage or excessive moisture before harvesting.

Vibrating table WT						
	WT 0.3	WT 1.0	WT 1.5	WT 2.5	WT 5.0	WT 10.0
Capacity , t/h	0.3	1	1.5	2.5	5	10
Power, kW	1.12	5.15	5.50	10.3	14.7	20.1
Weight, kg	136	400	740	1060	1510	1800
Length, mm	1000	1900	1700	2150	2600	3100
Width, mm	850	1150	1520	1600	1800	2500
Height, mm	1240	1950	1350	1540	1650	2550

Destoner KM

KM stone separators are used in the flour and food industries to create a variety of cereals, extract kernels from sunflower, pumpkin and other products. In addition to this, stone separators are used for sorting metal particles from plastic waste, separating metal elements from slag from metallurgical slag, and much more.

The principle of operation of stone separators is to separate the product into two fractions taking into account their specific weight. This makes it possible to isolate heavy impurities such as stones, glass, metal particles, etc., from purified products such as cereals, grains, plastic waste, metallurgical slags and so on.

Destoner			
	KM 0.3	KM 1.6	KM 5.0
capacity, t/h	0.3	1	1.5
power, kW	1,87	5,5	9,2
weight, kg	120	500	950
length, mm	1000	2160	2500
width, mm	550	1100	1400
height, mm	1110	1350	1950

Seed treater PN

Innovative new generation seed dresser for pre-sowing treatment of cereal seeds. Ideal for today's agricultural needs. With its mobility, it provides efficient and precise application of the specialised liquid to the seed, ensuring a wide range of application rates. The unique ability to gently agitate the seed allows for even distribution of the seed dressing.

The advantage of the extended auger is increased dressing efficiency with simultaneous uniform coverage of each seed. The choice between manual and mechanised loading demonstrates the flexibility of using the unit under different conditions. And after treatment, the seeds can be discharged into either bags or big bags, providing convenience and ease of transport.

This seed treater not only improves the quality of seed treatment, but also facilitates the seed preparation process through integrated innovative solutions. Bring advanced technology to farming with our mobile seed treater and ensure a bountiful harvest without compromise.

PN-3

CHARACTERISTICS

- Capacity, t/h- 1-3
- Tank capacity, litres - 50
- Feed rate of the metering unit, l/min - 0.160-2
- Power, kW - 0,75
- Weight, kg - 80
- Discharge height, cm - 80
- Dimensions DxWxH, mm - 2000x800x1050

PN-5

CHARACTERISTICS

- Capacity, tonnes/hour - 1-5
- Tank capacity, litres - 50
- Power, kW - 1,1 / 1,5 (380V / 220V)
- Unloading height - 80, 165, 240 (for big bags)
- Weight, kg - 130
- Discharge height, cm - 80-240
- Dimensions DxWxH, mm - 2210x720x1380

Flexible augers PSE

The spiral flexible auger finds its application in the transport of various bulk and granular materials such as grain, flour, pulses and many others. Its versatility is demonstrated by its ability to be used in confined spaces and on difficult paths.

The auger is available in two tube diameters, 90mm and 127mm, and its length ranges from 2 to 12 metres.

The elastic conveyor is capable of functioning in both horizontal and vertical positions, adding flexibility to its application.

The screw conveyor can be supplemented with a frequency converter for additional control of the spiral speed. This will provide the ability to precisely control performance, which promotes more efficient process control. Reliability, versatility and precision are what make our spiral flex screw the ideal choice for your conveying application.

Flexible screw conveyor		
	PSE-90	**PSE-127**
conveyor type	spiral, pulling	spiral, pulling
conveyor length	3000–11000	4000-12000
hose inner diameter	90 (102)	127
outer hose type	polyurethane	polyurethane
spiral outer diameter	69	95
spiral strip size	11,7*4,3	14*5
grain capacity	up to 3	up to 6
Engine	3m - 1,1 kW 4m - 1,1 kW 5m - 1,5 kW 6m - 1,5 kW 7m - 2,2 kW 8m - 2,2 kW 9m - 3,0 kW 10m - 3,0 kW 11m - 3,0 kW	4m - 1,5 kW 5m - 2,2 kW 6m - 2,2 kW 7m - 2,2 kW 8m - 3,0 kW 9m - 3,0 kW 10m - 3,0 kW 11m - 4,0 kW 12m - 4,0 kW
Voltage	380V (220V opitonal)	380V (220V opitonal)
operating temperature	-40°C +90°C	-40°C +90°C
warranty, months.	12	12

Grain loader GL

The GL grain loader is required for unloading and loading work in open pits and grain warehouses.

The GL model is designed for the fastest possible unloading of cereals, oilseeds, pulses, grains and building materials (sawdust, fuel pellets, etc.).

The grain is transported by means of an elevator chain with rubber scrapers.

Advantage:

- does not traumatise the grain (compared to auger loaders)
- longer service life (compared to auger loaders)
- transports wet and very clogged grain (compared to auger loaders).
- The front, intake part is adjustable by means of a swivelling and lifting wheel

GL-40.5

SPECIFICATIONS

- Capacity, tonnes per hour - 60
- Power, kW - 3
- Feeding height, m - up to 3.7

GL-40.7

SPECIFICATIONS

- Capacity, tonnes per hour - 60
- Power, kW - 4
- Feeding height, m - up to 5.5

GL-40.10

SPECIFICATIONS

- Capacity, tonnes per hour - 60
- Power, kW - 4
- Feeding height, m - up to 7

Triers TSO and TSK

TSO 500, 700

The TSO oat separator is designed to clean the grain of the main crop from the length of oat impurities. It is also used to sort the cleaned grain by length. The triage is used at elevators, mills and groats mills to separate oat and kukil seeds from grain mixtures; at groats mills - to separate oats from barley and to separate hulled and non-hulled grains.

TSK 500, 700

The main working body of the triple-corn separator is a cylinder with cells, into which short grain (corn) falls, and long grain (grain) is larger than the cell size and is not captured by the cell. The cellular cylinder rotates and ejects the long fraction grain onto the first tray and the short fraction grain onto the second tray. This is how the mixture is fractionated.

	TSO-500	TSO-700	TSK-500	TSK-700
Capacity , t/h	1900	4000	2500	5300
Power, kW	0,75	1,1	0,75	1,1
Weight, kg	600	900	600	900
Length, mm	2800	4000	2800	4000
Width, mm	1100	1200	1100	1200
Height, mm	1400	1650	1400	1650

Grain dryer ZSK

Reliable, convenient and cost-effective: they ensure uninterrupted, high-quality drying. They are based on the design of a classic mobile dryer. No need for permits, paperwork or foundation construction.

The ZSKs have a high-mounted PLANT BUNKER with level sensors, which allows for even stockpiling and controlled loading. No top auger is needed. The moving mechanisms are based on reliable bearing units.

	ZSK-50	ZSK-00	ZSK-01	ZSK-02	ZSK-03	ZSK-04
Capacity, m3	6	15	20	27	30	37
Thickness of grain columns, mm	300	368	300	300	300	300
Capacity, maize (25-15%), heating + cooling, t/day	-	100	150	200	300	350
Capacity, maize (25-15%), full heating, tonnes/day	-	180	225	275	375	425
Total electrical power of fans, kW	11	22	30	30	45	45
Total electrical power of the dryer, kW	17	30,87	35,1	35,1	50,1	50,1
Capacity of the filling auger, tonnes/hour	50	45	-	-	-	-
Unloading screw capacity, tonnes/hour	50	24	50	50	50	50
Zagalnaja vysota, mm	3050	4800	5250	6450	7270	8480
Screw diameter, mm	5800	64440	5550	5550	5600	5600
Width, mm	1900	2430	2500	2500	2500	2500