



SKESS

ABOUT COMPANY

Sevkavelevatorspestroy Corporation has traced its history since 1946. Actually, Sevkavelevatorspestroy Corporation (SKESS) is the only company in the Russian Federation that performs a full complex of works on installation of facilities for storage and processing grain and, first of all, grain storage elevators without attraction of contracting companies.

The following subdivisions compose the Corporation:

- **Designing Institute;**
- **Construction company and Assembly Department;**
- **Factory on manufacturing silos and equipment for facilities of grain storage and processing;**
- **Mechanization Department;**
- **Piling Cast Department.**

Process equipment of our production for grain storage and silos made of galvanized steel has three undeniable advantages:

- **It is produced on the most advanced equipment;**
- **It has a reliable design that meets the severe requirements of the Russian climate;**
- **The price is much cheaper than imported analogues and we prepare estimates exclusively in Russian rubles without reference to the exchange rate.**

As a result, our facilities are cost less in comparing with the foreign analogues and is highly competitive and as reliable as the foreign analogues.

We build on «turnkey» basis according to individually developed deigns taking into account all the customer's requirements.

Grain storage elevators built by SKESS Corporation are reliable and will be operated for a long time. We provide free warranty services for the facilities for at least 24 months.

The geography of our facilities proves eloquently about the quality and reliability of our equipment. The equipment manufactured by SKESS is used almost in all parts of Russia - from Pskov to Vladivostok. We built harbor grain storage silos in Novorossiysk, Taganrog and Azov, feed mills

in the Stavropol Region, the Republics of Dagestan and North Ossetia, Rostov, Moscow, Belgorod, Lipetsk and Voronezh regions, grain storage silos of galvanized steel in the Southern, Central, Volga, Siberian, Far Eastern and Urals Federal Districts.

Many facilities have been built outside of our country with the participation of our specialists.

You are welcome to cooperate with us and we hope that our experience, knowledge and production capabilities will be useful for you!



Alexander V. Dormostuk
Director General
Sevkavelevatorspestroy
Corporation, LLC



DESIGNING

The design institute division is a member of Self-regulating Organization and has the right to develop the documentation for construction of especially dangerous and technically challenging production facilities. Moreover, it has the right to perform the functions of general designer.

The design institute has its own engineering and technical staff composed by qualified and duly certified 56 employees who have the skills and experience in developing the following sections of designing:

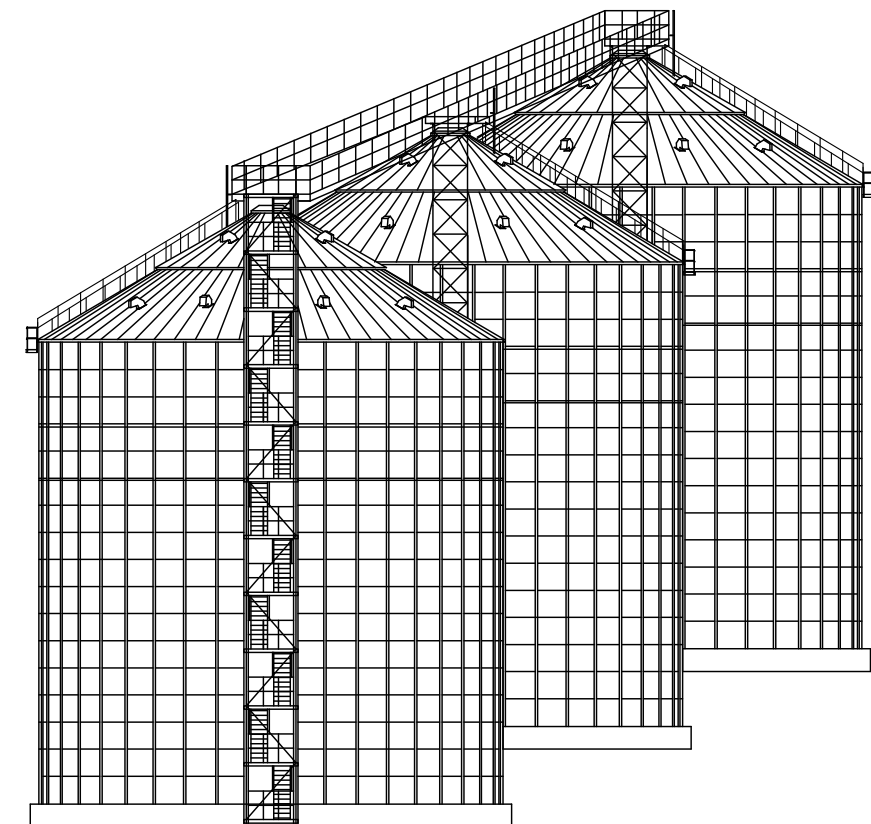
- Land plot layout diagram;
- Architectural and construction concept, reinforced concrete structures, steel structures;
- Production technique, non-standard steel structures;
- Water supply and sewerage;
- Inside electric illumination, power electric equipment, in-site electric power supply networks;
- Instrumentation and controls, Automated Process Control System;
- Estimate documents.

All designs are performed in accordance with the current norms and regulations of the Russian Federation.

Besides the facilities for storage and processing of grain raw materials our design institute is able to develop comprehensive design documentation for any food enterprise and prove and protect it in the expert's assessment authorities.

The design institute is provided with the equipment and licensed software required to perform the declared work.

During the existence of design institute, we have accumulated a huge technical archive and experience on the principle of commissioning the facilities on a turnkey basis.





PRODUCTION

More than 1,000 items of process equipment, including non-standard, building products and structures for grain storage and processing facilities are produced at the Factory of SKESS Corporation.

The production division of SKESS Company includes more than 200 qualified employees with unique skills and exhaustive practices and experience, including:

- production site - 120 employees;
- design department - 15 employees;
- support services - 50 employees;
- Engineering manpower - 20 employees.



SKESS CORPORATION PRODUCES MORE THAN 1000 ITEMS OF EQUIPMENT, THE MAIN ONE INCLUDING:

- Silos of galvanized steel, Flat Bottom Silos (SPD) and Hopper Silos (SKD);
- Silo discharging systems (sweep augers and auger dischargers);
- Conveying systems (chain, belt and screw conveyors; bucket elevators);
- Truck dumper type AVS;
- Grain cleaning equipment (scalperator);
- Gates and valves;
- Aspiration equipment;
- Gravity spout equipment;
- Buckets, chains, spare parts and etc

SKESS Silos are made on the most modern European equipment of galvanized steel.

Silos are designed by the experts of SKESS Corporation with using of licensed calculating software and comply with the standards and norms of the Customs Union, being stricter than European or North American standards.

The automatic line for production of silos allows to make silos of galvanized steel of any capacity, not inferior to the best world analogues.

SKESS bucket elevators are made of galvanized steel, having a self-bearing structure, i.e. they do not transfer a load to steel structures of tower allowing to reduce specific amount of steel and cost of foundations.

Elevator heads and boots as well as bottoms of chain conveyors are lined by wear-resistant material with thickness of 10 mm.

SKESS scraper conveyors are made of galvanized steel and are lined by a polymeric material. Bearings of European or Japanese production are used in process equipment. Imported compact conical-cylindrical gear-motors are used in drives.

Belt conveyors are equipped with multi-operated rollers with possibility to change a dust guard and bearing, and with conveyor belt for food products, drive and tension drums rubbered. Conveyor is supplied in complete set with standard supports. Discharge though is equipped with brush device for cleaning the drum from sticking product.

SKESS equipment is certified for conformity to European standards. That means our equipment complies with EU (European Union) directives.

Moreover, our company obtained ISO 9001 certificates, which guarantees the high quality of our equipment and services.

We guarantee the quality of our equipment by providing free warranty service within 24 months from the date of commissioning.

FLAT BOTTOM SILOS

PURPOSE

Flat Bottom Silos (SPD) are designed for long-term storage of big volumes of free-flowing products: grain, seeds and etc.

DESIGN

Flat Bottom Silos are placed on concrete base (foundation mat with using pile foundations or crushed rack cushion) depending on certain geological conditions. At the customer's request it is possible to use aeration channel device in foundation mat.

Silo is composed by the following components: reinforced galvanized roofing structure skeleton, galvanized steel roofing plates, galvanized steel structures of loading inlet, vent pipes, manhole, ladder with safe rails along silo roof; corrugated galvanized wall panels, including a plate with a silo inlet door, galvanized raw and reinforced posts, galvanized wind cross bars; galvanized service platforms of silo inlet and level sensors.

Several hoppers are provided in a monolithic silo bottom. The product is unloaded through the gates, and then additional cleaning is performed by helps of sweep auger conveying grain from the edges to the central unloading hole.

SPECIFICATION TABLE OF FLAT BOTTOM SILOS (SPD)

"Silo Type (Flat Bottom Silos)"	Diameter, m	Number of rows	Handling capacity		Height, m		
			m ³	t (g=0,75 and 6% of compaction)	Cylinder	Roof	Total
SPD 9/8	8,91	8	585,8	468,6	9,2	2,3	11,5
SPD 10/12	10,70	12	1 267,6	1 014,1	13,8	2,9	16,7
SPD 12/13	12,48	13	1 882,3	1 505,8	14,9	3,5	18,4
SPD 14/13	14,27	13	2 483,4	1 986,7	14,9	4,1	19,0
SPD 16/16	16,04	16	3 861,3	3 089,0	18,4	4,7	23,1
SPD 17/17	17,83	17	5 086,8	4 069,4	19,5	5,2	24,7
SPD 20/17	19,61	17	6 197,2	4 957,8	19,5	5,7	25,2
SPD 21/17	21,39	17	7 424,6	5 939,7	19,5	6,2	25,7
SPD 23/17	23,17	17	8 772,4	7 017,9	19,5	6,7	26,2
SPD 25/17	25,85	17	11 022,7	8 818,2	19,5	7,3	26,8
SPD 27/17	27,63	17	12 679,0	10 143,2	19,5	7,9	27,4
SPD 32/18	32,09	18	18 303,5	14 642,8	20,6	9,2	29,9
SPD 32/25	32,09	25	24 778,5	19 822,8	28,7	9,2	37,9

Silo model	Diameter, m	Number of rows	Silo capacity	
			m ³	tons
SPD 9	8,91	8-16	585,8 - 1 156,5	468,6 - 925,2
SPD 10	10,70	8-16	856,5 - 1 678,7	685,2 - 1 343
SPD 12	12,48	13-18	1 882,3 - 2 581,8	1 505,8 - 2 065,4
SPD 14	14,26	13-18	2 483,4 - 3 397,9	1 986,7 - 2 718,3
SPD 16	16,04	13-18	3 167,5 - 4 323,8	2 534 - 3 459
SPD 17	17,83	17-26	5 086,8 - 7 656,1	4 069,4 - 6 124,9
SPD 18	18,72	17-26	5 629,7 - 8 463,5	4 503,8 - 6 770,8
SPD 20	19,61	11-26	4 124,5 - 9 306,3	3 299,6 - 7 445
SPD 21	21,39	11-26	4 958,1 - 11 124,4	3 966,5 - 8 899,5
SPD 22	22,28	11-26	5 407,1 - 12 098,5	4 325,7 - 9 678,8
SPD 23	23,17	11-26	5 877,5 - 13 114,7	4 702 - 10 491,8
SPD 24	24,06	11-26	6 369,7 - 14 174,1	5 095,8 - 11 339,3
SPD 25	25,85	11-26	7 421,1 - 16 425	5 936,9 - 13 140
SPD 27	27,63	11-26	8 563,5 - 18 852,4	6 850,8 - 15 081,9
SPD 32	32,09	11-26	11 828,4 - 25 703,5	9 462,7 - 20 562,8

ADVANTAGES

Main advantages of silos produced by SKESS Corporation, LLC, are the following:

1. Made on modern European equipment.
2. Made of galvanized steel.
3. The structure of silo are calculated and designed by the specialists of SKESS Corporation, taking into account the snow, wind, and seismic loads in the construction area, and complies with the Customs Union norms.
4. Silos are certified in accordance with the European standards (Directive 2006/42 / EC, EU Regulation 305/2011). The silos are CE and EAC certified.
5. Free warranty service within 24 months from the date of commissioning.





HOPPER SILOS 45°

PURPOSE

Silos with hopper bottom (SKD) are used mostly for storage mealy raw materials (ground oil-cake) at feed mills or for short term storage of small volumes of wet grain at drying complexes. Hopper silos are also applied for long term storage of conditioned grain so such silos are equipped with active aeration system.

DESIGN

Hopper silos are placed on steel supports and have a conical discharge hopper with inclination angles 45° and 60°. Hoppers with inclination angle of 60° are used for non-free-flowing products (ground oil cake, wet grain and etc.).

HOPPER SILO COMPOSITION:

- Roof is made up of: galvanized structures of roof frame, galvanized structures of roof frame, galvanized steel panels for roof coating, loading hole structure, airducts, structures for temperature transmitters, level sensor, manhole, ladder with railing along the silo roof.
- Walls consist of: corrugated galvanized steel wall sheets including a wall sheet with a door for silo inlet, galvanized posts of rows and reinforced, wind girt.
- Hopper consists of: galvanized steel structures of hopper, painted structures of support flange.
- Silo inlet is made up of: galvanized service platforms for silo inlet and level sensor; galvanized ladder with railing along a silo wall (if required).
- Support structures: painted columns, ties and spacers.

HOPPER SILOS (SKD)-45

Silo Type (Hopper Silos)	Diameter, m	Number of rows	Handling capacity "t		Support part	Height, m		
			m3	(g=0,75 and 6% of compaction)"		Cylinder	Roof	Total
SKD 3/3-45	3,57	3	38,5	30,8	3,13	3,48	1,01	7,62
SKD 3/4-45		4	49,9	39,9		4,63		8,77
SKD 3/5-45		5	61,3	49		5,77		9,91
SKD 3/6-45		6	72,7	58,2		6,92		11,06
SKD 3/7-45	4,46	7	84,2	67,4	3,88	8,06	1,20	12,2
SKD 4/3-45		3	63,6	50,9		3,48		8,56
SKD 4/4-45		4	81,5	65,2		4,63		9,71
SKD 4/5-45		5	99,3	79,4		5,77		10,85
SKD 4/6-45	5,35	6	117,2	93,8	4,41	6,92	1,46	12,0
SKD 4/7-45		7	135,1	108,1		8,06		13,14
SKD 5/4-45		4	122,1	97,7		4,63		10,49
SKD 5/5-45		5	147,8	118,2		5,77		11,63
SKD 5/6-45	6,24	6	173,5	138,8	4,75	6,92	1,715	12,78
SKD 5/7-45		7	199,2	159,4		8,06		13,92
SKD 5/8-45		8	224,9	179,9		9,2		15,06
SKD 5/9-45		9	250,7	200,6		10,35		16,21
SKD 6/5-45	7,13	5	207,8	166,2	5,22	5,77	1,98	12,24
SKD 6/6-45		6	242,8	194,2		6,92		13,39
SKD 6/7-45		7	277,8	222,2		8,06		14,53
SKD 6/8-45		8	312,8	250,2		9,2		15,67
SKD 6/9-45	8,02	9	347,7	278,2	5,63	10,35	2,06	16,82
SKD 7/5-45		5	280	224		5,77		12,96
SKD 7/6-45		6	325,6	260,5		6,92		14,11
SKD 7/7-45		7	371,3	297		8,06		15,25
SKD 7/8-45	8,91	8	417	333,6	6,07	9,2	2,32	16,39
SKD 7/9-45		9	462,7	370,2		10,35		17,54
SKD 7/10-45		10	508,3	406,6		11,49		18,68
SKD 7/11-45		11	554	443,2		12,64		19,83
SKD 7/12-45	9,02	12	599,7	479,8	6,07	13,78	2,32	20,97
SKD 8/6-45		6	423,1	338,5		6,92		14,61
SKD 8/7-45		7	480,9	384,7		8,06		15,75
SKD 8/8-45		8	538,7	431		9,2		16,89
SKD 8/9-45	9,02	9	596,4	477,1	6,07	10,35	2,32	18,04
SKD 8/10-45		10	654,2	523,4		11,49		19,18
SKD 8/11-45		11	712	569,6		12,64		20,33
SKD 8/12-45		12	769,8	615,8		13,78		21,47
SKD 8/13-45	9,02	13	827,6	662,1	6,07	14,92	2,32	22,61
SKD 8/14-45		14	885,4	708,3		16,07		23,76
SKD 9/6-45		6	535,8	428,6		6,92		15,31
SKD 9/7-45		7	607,1	485,7		8,06		16,45
SKD 9/8-45	9,02	8	678,4	542,7	6,07	9,2	2,32	17,59
SKD 9/9-45		9	749,8	599,8		10,35		18,74
SKD 9/10-45		10	821,1	656,9		11,49		19,88
SKD 9/11-45		11	892,4	713,9		12,64		21,03
SKD 9/12-45	9,02	12	963,8	771	6,07	13,78	2,32	22,17
SKD 9/13-45		13	1035,1	828,1		14,92		23,31
SKD 9/14-45		14	1106,4	885,1		16,07		24,46
SKD 9/15-45		15	1177,8	942,2		17,21		25,60
SKD 9/16-45	16	1249,1	999,3	18,36	26,75			



HOPPER SILOS 60° SILOS MODEL SKD-60

Silo Type (Hopper Silos)	Diameter, m	Number of rows	Handling capacity		Height, m			
			m3	"t (g=0,75 and 6% of compaction)"	Support part	Cylinder	Roof	Total
SKD 3/3-60	3,57	3	42,9	34,3	4,33	3,48	1,01	8,82
SKD 3/4-60		4	54,3	43,4		4,63		9,97
SKD 3/5-60		5	65,7	52,6		5,77		11,11
SKD 3/6-60		6	77,1	61,7		6,92		12,26
SKD 3/7-60		7	88,6	70,9		8,06		13,4
SKD 4/3-60		3	72,1	57,7		3,48		9,78
SKD 4/4-60	4,46	4	90	72	5,10	4,63	1,20	10,931
SKD 4/5-60		5	107,8	86,2		5,77		12,071
SKD 4/6-60		6	125,7	100,6		6,92		13,2
SKD 4/7-60		7	143,6	114,9		8,06		14,361
SKD 5/4-60		4	136,8	109,4		4,63		11,94
SKD 5/5-60		5	162,5	130		5,77		13,08
SKD 5/6-60	5,35	6	188,2	150,6	5,855	6,92	1,46	14,23
SKD 5/7-60		7	213,9	171,1		8,06		15,37
SKD 5/8-60		8	239,6	191,7		9,2		16,51
SKD 5/9-60		9	265,4	212,3		10,35		17,66
SKD 6/5-60		5	231,1	184,9		5,77		14,11
SKD 6/6-60		6	266,1	212,9		6,92		15,26
SKD 6/7-60	6,24	7	301,1	240,9	6,625	8,06	1,715	16,40
SKD 6/8-60		8	336,1	268,9		9,2		17,54
SKD 6/9-60		9	371	296,8		10,35		18,69
SKD 7/5-60		5	314,8	251,8		5,77		15,15
SKD 7/6-60		6	360,4	288,3		6,92		16,30
SKD 7/7-60		7	406,1	324,9		8,06		17,44
SKD 7/8-60	7,13	8	451,8	361,4	7,40	9,2	1,98	18,58
SKD 7/9-60		9	497,5	398		10,35		19,73
SKD 7/10-60		10	543,1	434,5		11,49		20,87
SKD 7/11-60		11	588,8	471		12,64		22,02
SKD 7/12-60		12	634,5	507,6		13,78		23,16
SKD 8/6-60		6	472,6	378,1		6,92		17,36
SKD 8/7-60	8,02	7	530,4	424,3	8,375	8,06	2,06	18,50
SKD 8/8-60		8	588,2	470,6		9,2		19,64
SKD 8/9-60		9	645,9	516,7		10,35		20,79
SKD 8/10-60		10	703,7	563		11,49		21,93
SKD 8/11-60		11	761,5	609,2		12,64		23,08
SKD 8/12-60		12	819,3	655,4		13,78		24,22
SKD 8/13-60	8,91	13	877,1	701,7	8,94	14,92	2,32	25,36
SKD 8/14-60		14	934,9	747,9		16,07		26,51
SKD 9/6-60		6	603,6	482,9		6,92		18,18
SKD 9/7-60		7	674,9	539,9		8,06		19,32
SKD 9/8-60		8	746,2	597		9,2		20,46
SKD 9/9-60		9	817,6	654,1		10,35		21,61
SKD 9/10-60	8,91	10	888,9	711,1	8,94	11,49	2,32	22,75
SKD 9/11-60		11	960,2	768,2		12,64		23,90
SKD 9/12-60		12	1031,6	825,3		13,78		25,04
SKD 9/13-60		13	1102,9	882,3		14,92		26,18
SKD 9/14-60		14	1174,2	939,4		16,07		27,33
SKD 9/15-60		15	1245,6	996,5		17,21		28,47
SKD 9/16-60	16	1316,9	1053,5	18,36	29,62			

ADVANTAGES

Main advantages of silos produced by SKESS Corporation, LLC, are the following:

1. Made on modern European equipment.
2. Made of galvanized steel.
3. The structure of silo are calculated and designed by the specialists of SKESS Corporation, taking into account the snow, wind, and seismic loads in the construction area, and complies with the Customs Union norms.
4. Silos are certified in accordance with the European standards (Directive 2006/42 / EC, EU Regulation 305/2011). The silos are CE and EAC certified.
5. Free warranty service within 24 months from the date of commissioning.



TRUCK GRAIN LOADING DEVICE (TGLD)

PURPOSE

Truck Grain Loading Device (TGLD) is used for temporary storage of grain batch before shipment to trucks. It allows to arrange several points for loading grain on to the grain elevator.

DESIGN

Truck Grain Loading Device is composed by a hopper silo, set on metal supports with the height allowing a truck to pass. There are two types of TGLD with one or two silos on a single supporting base.

The silo cone angle of TGLD can be 45° or 60°.

TGLD composition: supporting structures with the height allowing a truck to pass, a ladder, a conveyor bridge, a service platform, one or two shipping hopper silo (SKD) of galvanized steel.

TGLD capacity varies from 40 to 400 m³ depending on the type.

ADVANTAGES

Main advantages of silos produced by SKESS Corporation, LLC, are the following:

1. Made on modern European equipment.
2. Made of galvanized steel.
3. The structure of silo is calculated and designed by the specialists of SKESS Corporation designing Department, taking into account the snow, wind, and seismic loads in the construction area, and complies with the Customs Union norms being more strict than European or Northern American ones.
4. Silos are certified in accordance with the European standards (Directive 2006/42 / EC, EU Regulation 305/2011). The silos are CE and EAC certified.
5. Free warranty service within 24 months from the date of commissioning.

AUGER-TYPE DISCHARGER

PURPOSE

Auger-type discharger RSH-1 is used at the grain-producing plants for unloading hard-flowing products from hopper silos. It eliminates arch formation inside the silo and bridging of product.

DESIGN

The discharger is a steel structure composed by an operating section of augers and a general collection screw. The operating section consists of six augers (for RSH 1A – four) of right and left spiraling directly contacting with the product, and conveying it from the edges to the center on to the collection screw.

OPERATING PRINCIPLES

The effect of agitating and mixing the product occurs due to application of augers with different spiraling.

The product is additionally mixed and agitated in the collection auger and then it is conveyed to the discharge branch conduit.

SPECIFICATION

Specification	RSH-1	RSH-1A
Overall dimensions, LxWxH, mm	4006x3352x1000	3160x2792x900
Drive power, kW	24,2	18,3
Capacity, t/hr	50-100	10-60
Meantime between failures, hr	9000	9000
Average useful life, years	20	20

ADVANTAGES

The main advantages of auger-type dischargers manufactured by Sevkavelevatorspestroy Corporation, LLC, against the foreign analogues are the following:

1. Structure reliability.
2. Use of advanced materials and components in production process. Gear-motors are imported.
3. Discharger has EAC certificate (Customs Union).
4. Low price against the foreign analogues.
5. No expenses for customs clearance formalities and transportation.



SWEEP AUGERS

PURPOSE

Sweep auger is used at the grain-producing plants for unloading grain and products of its processing from steel silos with flat bottom.

DESIGN

Sweep auger consists of the following parts:

- auger formed by spiral surface of weldless steel belt welded to a tubular shaft;
- mechanism of auger circle movement;
- mechanism of auger rotation;
- protective shroud;
- casing.

It is equipped with a slipring excluding cable laying inside a silo, torque-limiting clutches ensuring a smooth operation of screw as well excluding a back run of screw. Sweep auger is set in a central part of silo.

OPERATING PRINCIPLES

Sweep augers are involved in operation to unload grain remains after main discharge by means of hoppers in the silo bottom. Moving along the circle inside the silo an auger conveys grain to central hopper. Auger is rotated by motor gear.

Specification	SHZ-9 - SHZ-32
Auger length, mm	4500 - 16000
Drive power, kW	4,0 - 37
Capacity, t/hr	100 - 500
Auger screw diameter, mm	250 - 600

ADVANTAGES

The main advantages of sweep augers manufactured by Sevkavelevatorsptsstroy Corporation, LLC, against the foreign analogues are the following:

1. Reliability of construction. Use of reinforced beam along the total length of sweep auger allows excluding any bending of structure. Availability of two free-wheel units that prevent from back run of sweep auger and provide smooth and steady running of device. Use of slipring excludes wiring inside the silo.
2. Use of advanced materials and components during production. Gear-motors, bearings, free-wheel units and sliprings are imported.
3. Availability of certificates complying with European Standards (Directive 2006/42/EC, EC Regulation 305/2011), CE and EAC certificates.
4. Free warranty period within 24 months from the date of commissioning.
5. Low price against the foreign analogues.
6. No expenses for customs clearance formalities and transportation from abroad.





BUCKET ELEVATOR

APPLICATION

Bucket elevator is designed to operate as a part of process flow diagram with continuous operating mode inside as well as outside. They are used for vertical conveying of grain, products of its processing (flour, groats, bran) and other bulk materials to silos, granaries, ports, mills and bakeries.

CONFIGURATION

In a bucket elevator between two pulleys – upper drive pulley and bottom movable pulley – a chain with buckets is tensioned. The chain is used as a main traction mechanism. Upper pulley is located in an elevator head and bottom pulley – in an elevator boot. Both chain sectors are located in elevator pipes, which together with elevator boot and head compose a casing for an elevator. Elevator pipes are connected by bolts.

Elevator spouts are provided in elevator boot and head to load and unload a product. A screw tension device is set on a boot pulley shaft. Elevator drive consists of an electrical motor and a standard gearbox. A drag brake is mounted on elevator head to prevent from backward belt running.

OPERATION

Product is passed through an intake tip to an elevator boot by conveyor, discharger or gravity spout. There are drive and tension drums in the elevator boot and head. A belt with fixed buckets is tensioned on these drums. The product is conveyed by hoppers by ladling from the boot bottom or filling the product directly into the bucket. It is discharged from the top side (head) of the elevator through discharge sleeve. Thanks to its construction bucket elevators are divided into single-trunk and double, by type of discharge into centrifugal Type II (2.2 – 3.6 m/ sec) and gravity-centrifugal Type I (1.1-1.8 m/sec).

Technical data	I - 10	I - 2x10	I - 20	I - 2x20	II - 50	II - 100	II - 175	II - 200	II - 400	II - 600	II - 800
Capacity, tons/hr (for density 0,75 t/m ³)	10	10+10	20	20+20	50	80/100	175	200	400	600	800
Belt speed, m/sec.	1,4	1,4	2,08	1,4	2,3	2,4/2,8	3,2	3,2	3,8	3,5	3,5
Belt width, mm	150	2x150	175	2x175	200	300	300	330	650	800	1000
Bucket pitch, mm	260	260	240	260	160	180	150	190	166	240	240
Bucket capacity, l	1,2	1,2	1,2	1,5	1,7	3	4,16	5	4,16	8,1	10,56

ADVANTAGES

The main advantages of bucket elevators manufactured by Sevkavelevatorspetsstroy Corporation, LLC, against the domestic and foreign analogues are the following:

1. Availability of certificates complying with European Standards (Directive 2006/42/EC, EC Regulation 305/2011), CE and EAC certificates.
2. Elevator head, boot and pipes are made of galvanized steel.
3. Conical helical geared motor is supplied with hollow shaft and linking along the elevator head without use of belt and chain gears. This type of gear-motor significantly saves space on bridges and takes precedence in 2-2,5 times by resource of operation over worm and helical geared motor, as well as excludes use of additional transmission gears (chain, belt and coupling transmission).
4. The case of bearings with protective sealing is imported.
5. The head is lined by wear-resistant polymer sheets with thickness of 10mm.
6. Buckets may be made of steel or polymer and are seamless.
7. SKESS bucket elevators are designed for continued operation under load without limitations in number of starts and shutoffs and are operated without shutoff in temperature range from -40 to +50° C.

SCRAPER CONVEYORS

APPLICATION

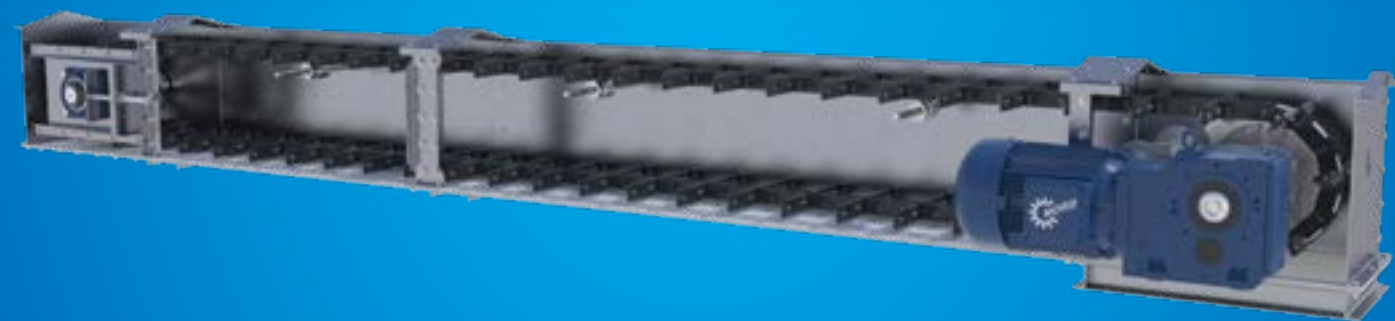
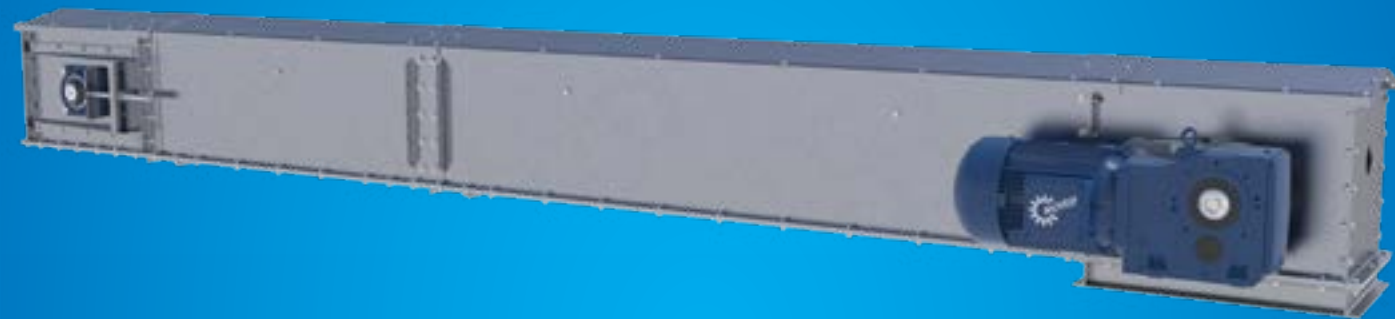
Scraper conveyors are designed for horizontal, flat and inclined, horizontal and inclined conveying of grain and products of its processing. The structure of conveyor allows fast starting and stopping at full loading, locating handling pipes almost in any point. It is automatically and remote controlled.

CONFIGURATION

Conveyor consists of drive and tension stations, drive, loading and unloading spouts, chain traction mechanism with partially rubber-bonded scrapers tensioned between two sprockets in drive and tension stations; product level sensors, chain breakage control sensor and mounting metalware. Conveyor box consists of two types sections – connecting and unloading, compose a conveyor trough. Cross section of trough has a square shape. Connecting sections are mounted from bottom and are bolted to side walls. Bottom chain sector is operating but upper one is free-running. Bottom and upper guide rails support a scraper chain. The bottom guide rail is fixed by screws to the trough bottom and the upper guide rail is fixed on the side walls of casing. In case of more than one unloading spout conveyor could be equipped with brushes for cleaning a pulling mechanism and cleanup ladles.

OPERATION

Operation of conveyor is based on continuous pulling of product by trough by means of chain with scrapers. Thus thanks to the force of internal friction all layers of product are moved: part of product is directly captured by scrapers and chain and top layers of product are captured by whole cross section of trough.



Specification	KS-200	KS-300	KS C-320	KS C-390	KS-400	KS-440
Capacity, tons/hr (for density 0,75 t/m ³)	20-50	50-80	80-100	150-175	250-400	200-250
Traction chain speed, m/sec.	0,4-0,6	0,95	0,85-0,91	0,92	0,6-1,05	0,92
Max. conveying length, m	40	50	50	50	50	50
Chain pitch, mm	100	100	100	100	200	100
Error-free running time, hr	10	10	10	16	10	16

ADVANTAGES

The main advantages of scraper conveyors manufactured by Sevkavelevatorspestroy Corporation, LLC, against the domestic and foreign analogues are the following:

1. Availability of certificates complying with European Standards (Directive 2006/42/EC, EC Regulation 305/2011), CE and EAC certificates.
2. Drive, tension and connecting sections are made of galvanized steel.
3. Conical helical geared motor is supplied with hollow shaft and linking along the elevator head without use of belt and chain gears. This type of gear-motor significantly saves space on bridges and takes precedence in 2-2,5 times by resource of operation over worm and helical geared motor, as well as excludes use of additional transmission gears (chain, belt and coupling transmission).
4. The case of bearings with protective sealing.
5. The conveyor bottom is lined by wear-resistant polymer sheets.
6. Pulling mechanism is a plate harden chain of carbon steel. Every chain scraper is rubbered or coated by polymeric plate.
7. SKESS conveyors are designed for continued operation under load without limitations in number of starts and shutoffs and are operated without shutoff in temperature range from -40 to +50° C.
8. Free warranty period within 24 months from the date of commissioning.

BELT CONVEYOR

APPLICATION

Belt conveyors are designed for horizontal, slightly sloping and inclined, horizontal and inclined conveying of grain and products of its processing. They are used for grain storage silos, grain warehouses, harbors, mills and bread-baking complexes.

CONFIGURATION

Belt conveyor consists of frame, two end drums on drive and tension stations respectively, return pulleys, rotary drum, belt bending these drums, upper trough and straight bottom roller supports mounted on conveyor frame and supporting a belt. Drive drum rotates by means of gearbox. It is possible to use motor-drum. Belt operates as traction and carrying mechanism of conveyor. Conveyor frame consists of three sectors: tension and drive stations and intermediate part for roller supports to be mounted to. Tension station is produced of two types: screw type (at small length of conveying) and cargo type (at long length of conveying). Roller supports withstand a belt along the conveyor and make it a shape of trough in operate part.

OPERATION

Raw material is passed by gravity spout through bulk trough to the conveying belt that is a towing working mechanism of conveyor. Then, under the pulling force transferred to the belt from electrical motor of drive station, and the product is conveyed by work (trough) branch to dropping case.

Specification	LT-150-500	LT-250-650	LT-400-800
Capacity, tons/hr (for density 0,75 t/m ³)	50-150	175-250	350-400
Belt speed, m/sec.	2,7	2,7	2,7
Belt width, mm	500	650	800
Overall length for conveying, m	300	300	300

ADVANTAGES

The main advantages of belt conveyors manufactured by Sevkavelevatorspestroy Corporation, LLC, against the domestic and foreign analogues are the following:

1. Availability of certificates complying with European Standards (Directive 2006/42/EC, EC Regulation 305/2011), CE and EAC certificates.
2. Conical helical geared motor is supplied with hollow shaft and linking along the elevator head without use of belt and chain gears. This type of gear-motor significantly saves space on bridges and takes precedence in 2-2,5 times by resource of operation over worm and helical geared motor, as well as excludes use of additional transmission gears (chain, belt and coupling transmission).
3. The case of bearings with protective sealing.
4. Special Series Rollers are made of pipe using self-alignment bearings.
5. Pulling mechanism is a belt for using in food industry.
6. Conveyor casing is made of galvanized steel.
7. SKESS conveyors are designed for continued operation under load without limitations in number of starts and shutoffs and are operated without shutoff in temperature range from -40 to +50° C.
8. Free warranty period within 24 months from the date of commissioning.



SCREW CONVEYORS (AUGERS)

APPLICATION

Screw conveyors are designed for horizontal and inclined (up to 20dgr.) conveying of grain and products of its processing. They are used as a part of production line for silos, mills, groats mills, feed mills, drying and cleaning towers, threshing and cleaning towers and oil mills.

CONFIGURATION

Screw conveyor consists of the following parts: auger, made of spiral surface, welded to tubular shaft; trough or cylindrical casing with outlet spouts; intermediate (suspended) or end bearing, one of which is thrust; and drive.

OPERATION

Operation concept of screw conveyors is based on continuous conveying grain by rotating auger mounted in fixed trough. In screw conveyors the product is held from turning by gravity and friction on trough. Raw material coming in the working zone of auger slides along the auger from the loading zone to the discharge zone moving by a spiral. The auger is started by a gear-motor.



Specification	U21-BKV-20-20	U21-BKV-25-25	U21-BKV-32-32
Capacity, tons/hr (for density 0,75 t/m3)	10	16	32
Screw diameter, mm	200	250	320
Screw pitch, mm	200	250	320
Screw rotational speed, rpm.	90	90	90
Maximal canting angle, degrees	20	20	20

ADVANTAGES

The main advantages of screw conveyors manufactured by Sevkavelevatorsptsstroy Corporation, LLC, against the domestic and foreign analogues are the following:

1. Availability of certificates complying with European Standards (Directive 2006/42/EC, EC Regulation 305/2011), CE and EAC certificates.
2. Imported gear-motors are used as a drive.
3. SKESS screw conveyors are designed for continued operation under load without limitations in number of starts and shutoffs and are operated without shutoff in temperature range from -40 to +50° C.
4. Free warranty period within 24 months from the date of commissioning.



TRUCK DUMPER AVS

APPLICATION

Truck dumper is designed for unloading grain via lateral side of trucks, truck tractors and road- trains without trailer uncoupling. It is used at silos, granaries, ports, mills and bread-baking complex.

CONFIGURATION

Support left and right frames are welded of flange beams and a channel. Frames are bolted to the foundation. Bearings of platform slope axes, bearings of platform lifting mechanism and drive frame are set on the frames. Truck dumper platform is welded, of flange beams. Platform has a solid floor of corrugated sheet steel with thickness of 5 mm. Platform is set on support frames and from grain unloading side it has three hinted bearings and from another side it is connected to crank mechanism of platform lifting.

OPERATION

The operation concept is based on a slope of truck dumper in cross direction to an angle greater than the angle of repose of grain.

When starting the motor torque is transmitted to the gearbox shaft, the output shaft of which is connected with low-speed shaft of other gear by means of chain coupling. Its low-speed shafts transmit a torque to two shafts of hoisting platform. Each shaft is rigidly connected to the crank mechanism of lifting platform. By turning the crank to 180 degrees the platform is lifted by the greatest angle. The platform is lowered by turning the crank in the initial position.

Specification	AVS-50-16	AVS-50-18	AVS-50-20	AVS-50-22	AVS-50-24
Maximal carrying capacity, t	50	60	70	80	100
Platform length, m	16	18	20	22	24
Maximal angle of slope for platform, degrees	38	38	38	38	38
Weight, kg	10 100	10 900	12 200	18 800	21 500
Error-free running time, hr	9000	9000	9000	9000	9000
Average lifetime, years	13	13	13	13	13

ADVANTAGES

The main advantages of truck dumper produced by SKESS Corporation, LLC, in compare with the analogues produced by foreign manufacturers are the following:

1. Application of advanced materials and components in production: control console, safety devices, parallel-shaft gear-motor with built-in brake and imported bearings.
2. Platform structure is dismountable on high strength bolts (for easy transportation and installation).
3. High lifetime of products. The platform is dismountable by high-strength bearings (for easy transportation and assembly).
4. Truck dumper is certified according EAC.
5. Drive sprockets are made of hardened steel. Platform is set on hinged bearings.
6. Low price against the foreign analogues.
7. No charges on customs clearing formalities or transportation from abroad.
8. Free warranty period within 24 months from the date of commissioning.

SINGLE-WAY TRUCK DUMPER

APPLICATION

Truck dumper is designed for unloading grain, cereals and other free-flowing materials via open lateral side of one-way trucks and road-trains, which full unladen mass does not exceed 80 tons.

CONFIGURATION

The truck dumper consists of two platforms, four lifting devices and a hydraulic station with a hydraulic block.

Each platform is a welded metal structure covered by corrugated steel sheets from the top.

The lifting device consists of a hydraulic cylinder which is hingedly connected to the support sleeve from the bottom and to the frame from the top. The support sleeve in turn is attached to the insertion studs (foundation bolts). The frame is fixed to the platform with a set of fasteners.

The hydraulic station is connected to the hydraulic cylinders by means of a pipe or flexible hydraulic circuit which is a part of the hydraulic system.

OPERATION

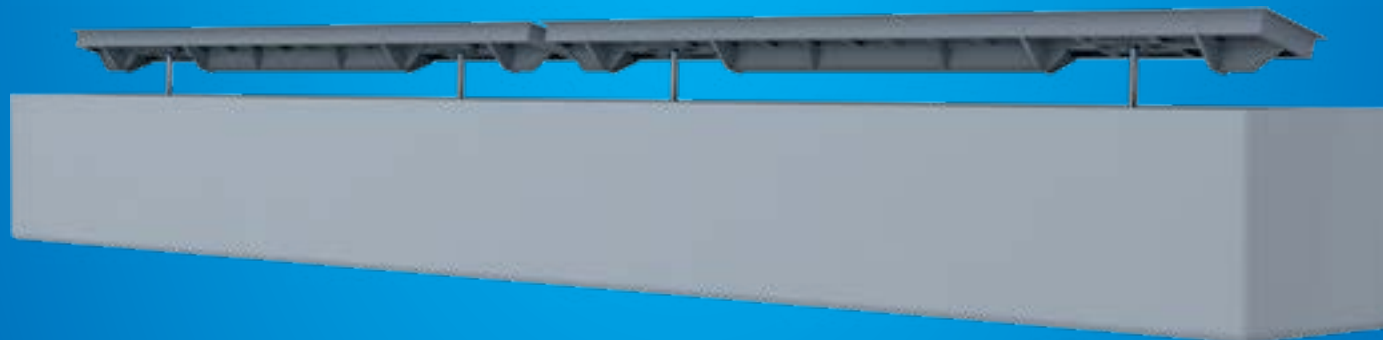
The truck dumper operates as follows: the hydraulic station is activated by pressing the button «Platform Lift» on the control panel, which pumps the pressure of power fluid in the system that activates the hydraulic cylinders. When the rod of hydraulic cylinder is extended, the platforms are raised, on which the truck dumper is standing by one track (way) of the wheels with open sides. Lifting and tilting of the platforms causes the inclination of the truck dumper, as a result of which the product is fully-poured out of the truck.

When the extreme position of the hydraulic cylinder rod is reached, the restriction mechanism (hydraulic fluid bypass) is activated.

The platform with the truck returns to its initial position by pressing the button «Platform Lowering».

SPECIFICATION

Specification	Value	
Full unladen mass for unloaded truck (not more than), t	80	80
Platform total length, m	20	22
Number of platforms, pcs.	2	2
Time for platform lifting (not more than), sec	30	30
Platform inclination angle, degrees	15	15
Number of hydraulic cylinders, pcs.	4	4
Diameter of hydraulic cylinders, mm	140	140
Diameter of hydraulic cylinder rod, mm	90	90
Cylinder travel, mm	920	920
Nominal pressure in hydraulic system, MPa	16	16
Platform dimensions, (not more than), mm	9 980	10 980
	1 080	1 080
Weight, (excluding a hydraulic block), kg	502	502
	6 550	6 984





SCALPERATOR

APPLICATION

Drum scalperator is designed for preliminary grain cleaning from coarse impurities, straws and soil lumps. It is used as a part of production line of silos, mills, groats mill and oil mills. It is usually mounted during the first stage of cleaning before main separating.

CONFIGURATION

Scalperator consists of casing inside which a sieve cylinder is fastened on a shaft with a blade of screw shape for conveying coarse admixture.

Cylinder is rotated by means of motor-reducer.

In upper side of the scalperators an inlet nipple is located and in bottom side – outlet nipple for grain and outlet nipple for coarse admixture. The scalperators can be furnished with additional sieves for cleaning such crops as sun-flower, millet, buckwheat, maize in crop and etc.

OPERATION

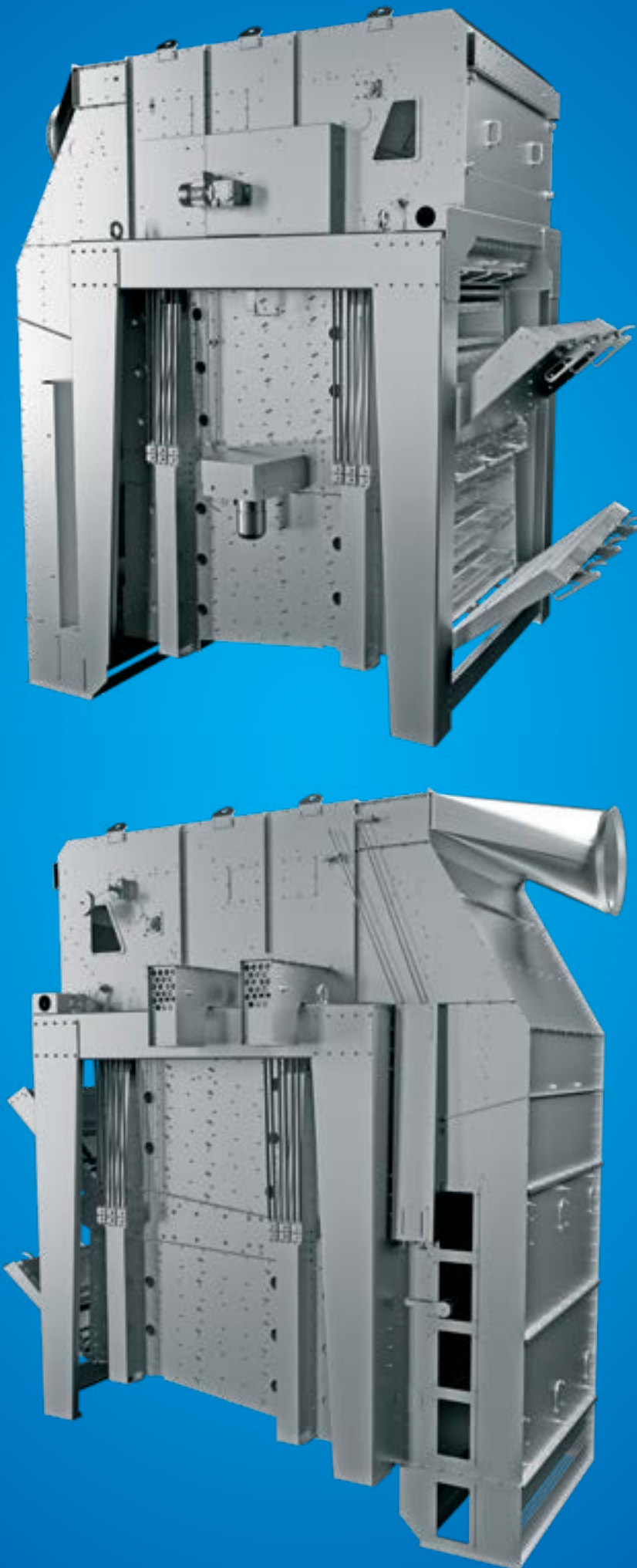
Raw material mix is passed by a gravity spout through the intake branch pipes into the intake section of sieve cylinder, passing free through the holes of cylinder that are greater than grain size, purified grain is cleared from the device by exhaust pipe. Gross and big impurities are slow conveyed over screw-shaped apron to the exhaust pipe for impurities.

Specification	SK - 57	SK-57/1
Capacity, t/hr (for density 0,75 t/m3)	100	175
Grid cylinder length, mm	1075	1570
Grid cylinder diameter, mm	946	1200
Grid cylinder rotational speed, rpm	22	33
Electric motor capacity, kW	1,1	2,2
Weight, kg, not more	420	790

ADVANTAGES

The main advantages of scalperators produced by SKESS Corporation, LLC, in compare with the analogues produced by foreign manufacturers are the following:

1. Reliability of structure.
2. Application of advanced materials and components in production: imported gear-motor.
3. Scalperators are certified according EAC (customs union).
4. Low price against the foreign analogues.
5. No charges on customs clearing formalities or transportation from abroad.
6. Free warranty period within 24 months from the date of commissioning.



SIEVE-TYPE GRAIN CLEANING SEPARATOR

APPLICATION

VELES sieve-type grain cleaning separator performs cleaning function in order to improve the quality and extend the term of reliable steady storage of grain.

OPERATION

The preliminary pass of grain through the distribution device and the aspiration system allows the removal of light impurities in the grain mass. The further passage of grain through the sieve allows it to be cleaned as much as possible from large and small impurities with a high capacity of up to 250 t/h. The distribution of the total flow over all the sieves at the same time makes it possible to obtain a high degree of cleaning. At the outlet from the sieve part of the separator, the grain passes through an aspiration column, where it separates light impurities, dust and other particles from the main grain flow for the second time.

The oscillating motion of sieve body results in uniform grain distribution over the entire sieve surface, which increases cleaning efficiency.

During cold season, the separator can be used to freeze grain, which provides more stable condition for grain when stored.

CONFIGURATION

The design of separator allows to perform maintenance operations quickly and processible. The doors of the upper and lower sieves allow easy access, easy cleaning and, if necessary, replacement.

Free warranty service within 24 months after commissioning.

SPECIFICATION

Specification	Value			
	Incoming material			
Grain	wheat			
Bulk Density, t/m ³	0,75			
Humidity, %	15			
Impurities, %	Up to 5			
	Sieve-type separator			
Model	VELES-110	VELES-250		
Ambient temperature, °C	-25...+40		-25...+40	
Relative humidity, %	60		60	
Capacity (for wheat $\gamma=0,75$ t/m ³), t/hr	110		250	
Total area of sieving, m ²	12		48	
Area of receiving sieves, m ²	2x3=6		6x4=24	
Area of main sieves, m ²	2x3=6		6x4=24	
Width, mm	2650		3 200	
Height, mm	2900		4 360	
Operation width, mm	2000		2 000	
Noise load, dB(A)	80±4		80±4	
Vibration, m/s ²	1,7±0,12		2,5±0,12	
	Aspiration system			
	Dust (sieve case)	Processed air	Dust (sieve case)	Processed air
Consumption, m ³ /min.	75	170	12	390
Recommended diameter for ventilation pipe, mm	300	450	150	650
	Sieve drive			
Drive location	Left side		Left side	
Power, kW	2,2		3	
Frequency, Hz	50		50	
Tension, V	230/400		230/400	
	Drive of inlet door		Drive of unloading auger	
Power, kW	0,75		0,75	
Frequency, Hz	50		50	
Tension, V	230/400		230/400	



DIVERTER VALVES

APPLICATION

Diverter valve is designed to change directions of product flow along gravity spouts. Distributive valve is produced of two types: electrically driven and with a manual drive. It is used at the plant of grain products system as a part of gravity equipment. Valves are produced as one-way and two-way types, with different sections (circular, square), and of different angle of slope.

CONFIGURATION

Main assemblies for distributive valves are a welded casing of sheet steel with a distributive gate and a drive. The drive for manual gate consists of special lever connected with a gate shaft.

Electric drive consists of imported limit switch and motor-reducer.

OPERATION

Operation concept is based on change of direction of product by means of gate with manual or electric drive.

DIVERTER ONE-WAY VERTICAL VALVE WITH ELECTRIC DRIVE

Type	Section dimension, mm	Inclination angle, degree	Weight, kg
KO-1	140x140	36	33,4
KO-2	140x140	45	33,8
KO-3	180x180	45	39,0
KO-4	200x200	54	47,9
KO-5	200x200	36	43,5
KO-6	200x200	45	45,1
KO-7	300x300	54	65,3
KO-8	300x300	36	59,3
KO-9	300x300	45	63,0
KO-10	350x350	36	71,8
KO-11	350x350	45	75,9

DIVERTER ONE-WAY INCLINED VALVE WITH ELECTRIC DRIVE

Type	Section dimension, mm	Inclination angle, degree	Weight, kg
KO-1N	140x140	36	33,4
KO-2N	140x140	45	33,8
KO-3N	180x180	45	39,0
KO-4N	200x200	54	47,9
KO-5N	200x200	36	43,5
KO-6N	200x200	45	45,1
KO-7N	300x300	54	65,3
KO-8N	300x300	36	59,3
KO-9N	300x300	45	63,0
KO-10N	350x350	36	71,8
KO-11N	350x350	45	75,9

DIVERTER TWO-WAY VALVE WITH ELECTRIC DRIVE

Type	Section dimension, mm	Weight, kg
KD-1	140x140	31,6
KD-2	180x180	35,6
KD-3	200x200	39,6
KD-4	300x300	50,0
KD-5	350x350	59,7

DIVERTER ONE-WAY VALVE WITH MANUAL DRIVE

Type	Inner section dimension, mm	Inclination angle, degree	Weight, kg
KOR-1	140x140	54	10,9
KOR-2	140x140	45	11,4
KOR-3	180x180	45	16,5
KOR-4	200x200	36	25,4
KOR-5	200x200	54	21,0
KOR-6	200x200	45	22,5
KOR-7	300x300	36	45,8
KOR-8	300x300	54	36,8
KOR-9	300x300	45	40,4
KOR-10	350x350	54	50,0
KOR-11	350x350	45	53,7

DIVERTER TWO-WAY VALVE WITH MANUAL DRIVE

Type	Section dimension, mm	Weight, kg
KDR-1	140x140	9,1
KDR-2	180x180	13,1
KDR-3	200x200	16,9
KDR-4	300x300	27,6
KDR-5	350x350	37,2

ELECTRICALLY-DRIVEN GATES

APPLICATION

Gate is designed to regulate grain discharge from silos, bins and equipment. It is used at granaries, grain warehouses, harbors, mills and bread baking complex.

CONFIGURATION

Casing of gate mechanism and electric drive are main assemblies. The casing is welded of sheet steel, it has a cut and gate rails in its middle part. Flanges of L-steel are welded to end parts of casing. Gate mechanism includes gate with laths, a shaft of gate drive with pinion and coupling. It is operated by gear-motor made in Italy with power of 0.25 kW.

Gates are produced of two types: Type A – with two openings both having square section, Type B – with one opening having square section and other with round section.

OPERATION

During activating a signal to open or close the valve an electric motor starts and transfers a torque through a reduction gear to the drive shaft gear. When rotating the gear wheels, the racks engaging with them move with the valve by opening or closing the gate. When setting the gate in required position an inductive sensor of triggering off the gates is activated.

ELECTRICALLY-DRIVEN GATES (SQUARE SECTION)

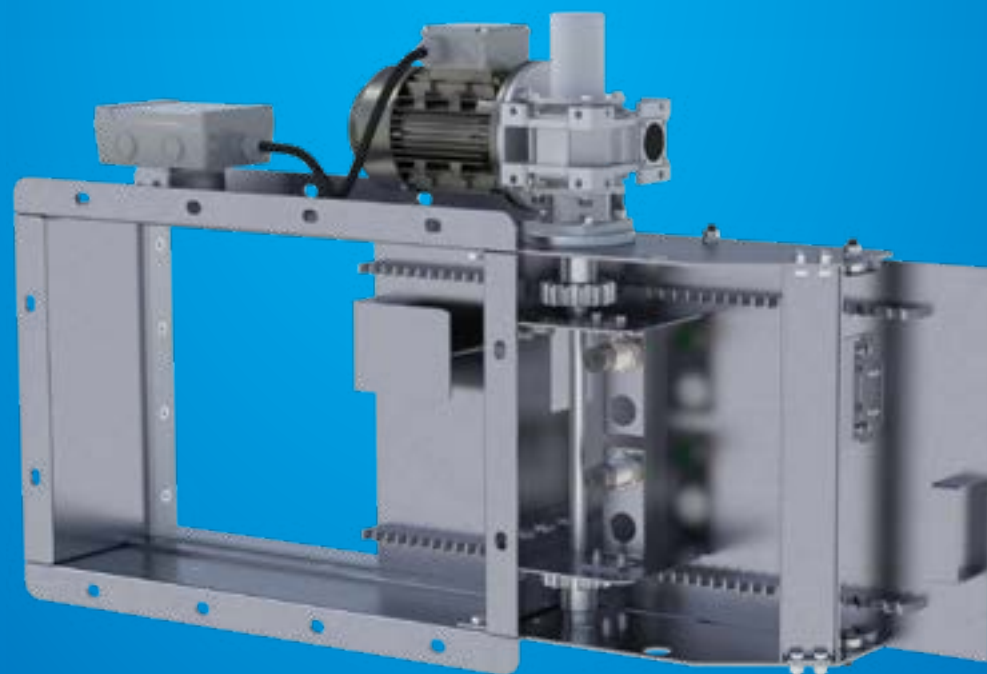
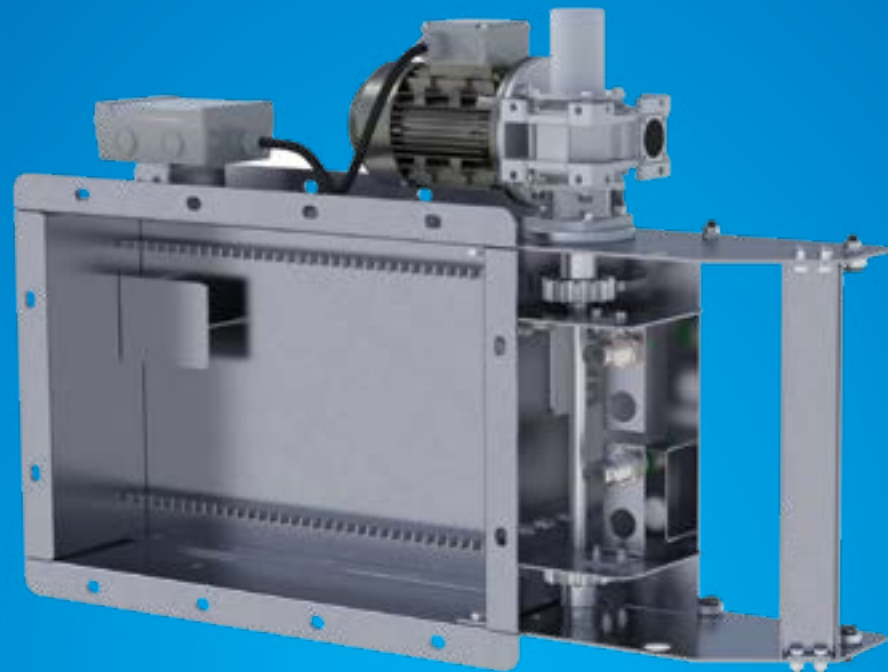
Specification	EZ-200x200	TEA-15	EZ-320x320	U8-TEA-18	EZ-450x450
Opening section, mm	200x200	300x300	320x320	350x350	450x450
Time for gate opening, sec.	6	6	6	6	6
Drive power, kW	0,25	0,25	0,25	0,25	0,25
Weight, kg	23,5	31,5	40,4	38,6	51,3

GATES FOR CONVEYORS

Specification	EZ-250x400	EZ-300x600	EZ-320x570	EZ-320x720	EZ-400x600	EZ-500x900
Opening section, mm	250x400	300x600	320x570	320x720	400x600	500x900
Conveyor Type	KS-200	KS-300	KS-320	KS-320	KS-390	KS-400
Drive power, kW	0,25	0,25	0,25	0,25	0,25	0,25
Weight, kg	54,2	48,1	42	46,9	53	71,9

ADVANTAGES

Advantage of TEA Type gates is to use imported gear-motors, advanced inductive sensors, torque-limiting clutch (preventing the drive from damage in case of gate seizure).





RACK GATES WITH MANUAL DRIVE

APPLICATION

Gate is designed to control grain discharge from silos, bins and equipment. It is used at granaries, grain warehouses, harbors, mills and bread baking complex.

CONFIGURATION

The main parts of manually operated gate are: a galvanized steel casing, a sliding shutter with a rack welded to it, a gear, a steering wheel with an axis. TZR Type casing is a welded box made of galvanized steel with upper and lower flanges. Gates are produced in various modifications: with round and square flanges.

OPERATION

The sliding shutter moves by means of toothed rack and a pinion fixed to the steering wheel axis.

Specification	TZR-200	TZR-300	TZR-350	TZR-450	TZR-400x600
Opening section, mm	200x200	300x300	350x350	450x450	400x600
Dimensions, mm	630x280x120	830x380x120	930x430x120	1130x534x120	1380x480x120
Weight, kg	17,2	24,5	27,7	34,6	39,9



LOCAL FILTER FIL-6000 (FILTERING WALL)

APPLICATION

Local filter is used for highly efficient cleaning of dusty air by dry method, emitted from the product (grain and its products of processing), as well as from mineral dust.

FIL-6000 Local Filter is installed directly in the area where grain is unloaded from trucks and is connected to the high-pressure compressed air line to purge the filter bags.

CONFIGURATION

Local filter consists of the following units:

1. Upper section;
2. Bottom section;
3. Filter bags;
4. Receiver;
5. Distribution box.

Filter type	Max. Filtering surface, m ²	Capacity*, m ³ /hr	Dimensions, mm			Weight, kg, not more
			Height	Length	Width	
FIL-6000	26,4	7 805 - 9 366	3 556	3 000	500	750

LOCAL FILTERS

APPLICATION

Local filters are used for highly efficient cleaning of dusty air by dry method, emitted from the product (grain and its products of processing), as well as from mineral dust.

CONFIGURATION

Taking into consideration the minimal dimensions, definitive energy consumption and high efficiency, local filters could be used in grain elevators, flour and feed mills, groats shops and warehouses.

Local filters are mounted directly on the equipment (bucket elevators, conveyors, bins, etc.) in the loading area and do not require connection to aspiration networks. They are connected only to the high-pressure compressed air line for purging the filter sleeves.

SPECIFICATION

Filter type	Max. Filtering surface, m ²	Capacity*, m ³ /hr		Dimensions, mm			Power el. motor of fan, P(kW) / n (rpm)	Weight, kg
		Mill dust	Mineral dust	Height	Length	Width		
FIL-500G		612	510	1992	765	360	1,5/2880	110
FIL-500V	1,7	612	510	2772	765	360	1,5/2880	125
FIL-700G	2,3	828	690	2492	765	360	1,5/2880	135
FIL-700V	2,3	828	690	3272	765	360	1,5/2880	150
FIL-1000G	3,4	1224	1020	1992	765	500	1,5/2880	140
FIL-1000V	3,4	1224	1020	2772	765	500	1,5/2880	155
FIL-1400G	4,6	1656	1380	2492	765	500	1,5/2880	165
FIL-1400V	4,6	1656	1380	3272	765	500	1,5/2880	180
FIL-2100G	6,9	2448	2040	2492	765	680	2,2/2860	220
FIL-2100V	6,9	2448	2040	3272	765	680	2,2/2860	235



BATTERY CYCLONE DEVICES

APPLICATION

Battery cyclone device is used at the universal plants for rough and medium purifying dusty air. It can be set inside as well as outside the building.

CONFIGURATION

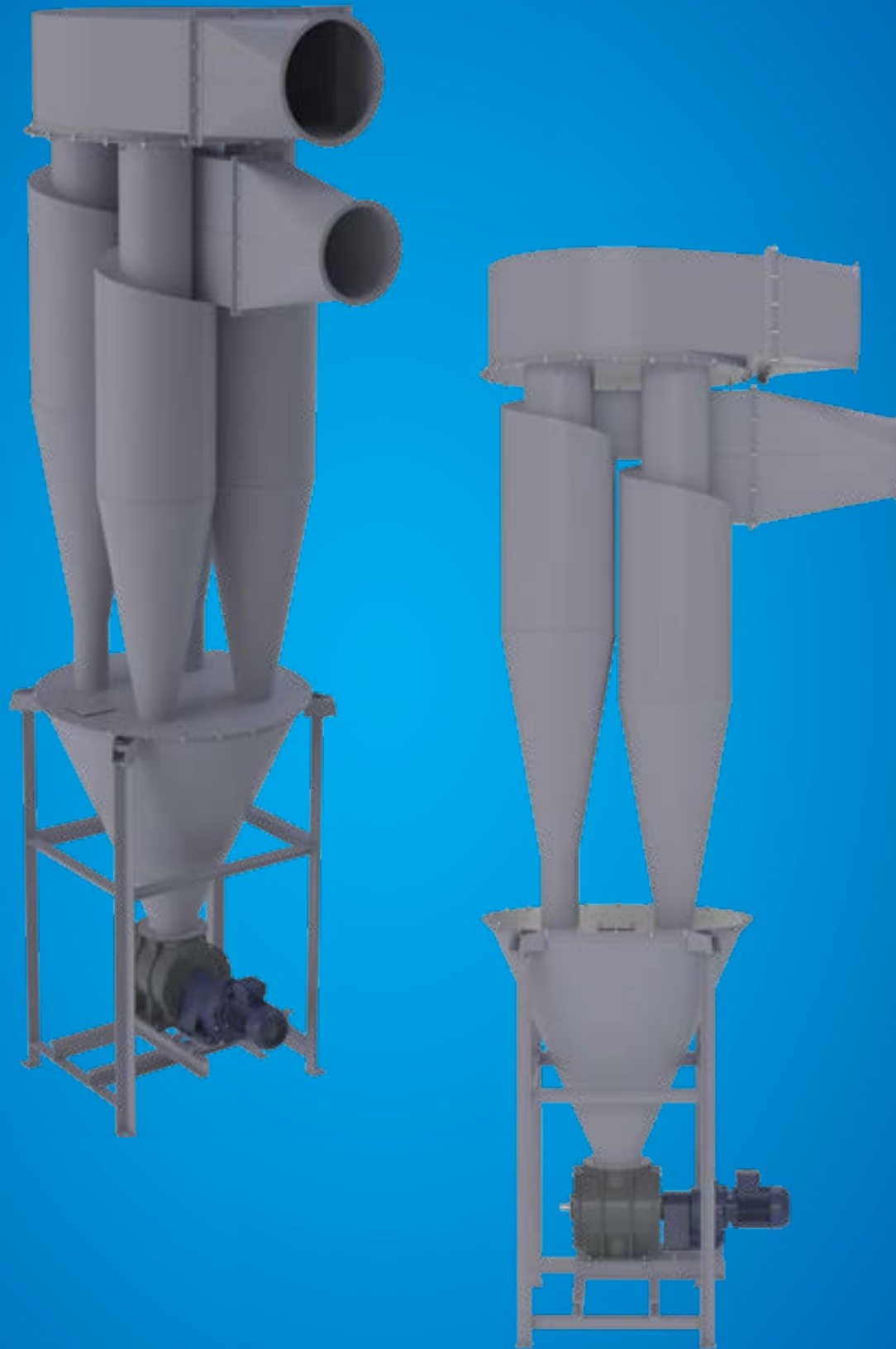
Battery cyclone device consists of four cyclones of conical-and-cylindrical shape. Cylindrical part of cyclone consists of outer and inner cylinders. External cylinder in upper side is cut along the helical curve; a nipple is welded to it. Inner cylinder is inserted into outer cylinder and is open from both ends. A fabricated box is fixed to the cyclones on the top. Conical part is closed with outlet with a flange by means of which four cyclones are fixed to the general conical collecting hopper. The factory manufactures seven types of battery cyclone devices by size: with up or aside exhaust of purified air, with fixing on the overlapping or with rack gate outlet to the ground floor.

OPERATION

Dusty air enters the cyclones through the suction pipe and receives rotary motion. Dust particles are attached to the cyclone walls under centrifugal force and under action of gravity roll into a collecting hopper. The purified air is exhausted from the cyclone through the inner cylinders and the fabricated box.

SPECIFICATION

Specification	U21-BBC-275	U21-BBC-300	U21-BBC-350	U21-BBC-400	U21-BBC-450	U21-BBC-500	U21-BBC-550
Capacity, m3/hr	2030	2420	3220	4240	5390	6680	8100
Air velocity, m/s	16	16	16	16	16	16	16
Efficiency of cleaning, %	98-99	98-99	98-99	98-99	98-99	98-99	98-99
Inner diameter of outdoor cylinder, mm	275	300	350	400	450	500	550
Drive power, kW	1,1	1,1	1,1	1,1	1,1	1,1	1,1
Length, mm	848	923	923	1008	1008	1008	1008
Width, mm	1025	1235	1465	1532	1617	1732	1842
Height, mm	3050	3270	3522	4122	4375	4805	5070
Weight w/o drive, kg	214	279	314	419	453	574	621



GRAVITY FLOWING PIPES

НАЗНАЧЕНИЕ

Gravity flowing pipes of round and square sections are used for conveying easy flowing cargoes. Sectors and elbows are designed to ensure the required angle of inclination for the gravity pipe.

They are produced with the diameter from 140 to 380 mm. The angle between the planes of the upper and lower connecting flanges is accepted from 27 to 54 degrees.

Reducers are made for gravity flowing device to transfer from round section to rectangular section and vice versa. Mostly it is required to connect gravity pipes to bins and equipment. Single, symmetrical and double inlets are used to connect one or two pipes to a gravity-flowing device.

GRAVITY PIPE TYPE ST OF ROUND

Type	Length, mm	Diameter, mm	Weight, kg
ST - 1	2000	150	24,6
ST - 2	2000	220	34,9
ST - 3	2000	300	48,1
ST - 7	2000	380	60,3

GRAVITY PIPE TYPE ST OF SQUARE SECTION

Type	Length, mm	Section, mm	Weight, kg
ST - 4	2020	140 x 140	13,8
ST - 5	2020	200 x 200	28,0
ST - 6	2020	300 x 300	41,7
ST - 8	2020	380 x 380	77,0

FLANGE TYPE 1SF OF ROUND SECTION

Type	Inner diameter, mm	Weight, kg
1SF1	144	0,4
1SF3	224	1,2
1SF4	304	1,5
1SF5	384	1,9

FLANGE TYPE 1SF OF SQUARE SECTION

Type	Inner size, mm	Weight, kg
1SF11	140 x 140	0,8
1SF12	200 x 200	1,4
1SF13	300 x 300	2,0
1SF14	350 x 350	2,4
1SF16	219 x 496	2,6
1SF17	219 x 496	2,6

ELBOWS TYPE SK

Type	Inner size, mm	Inclination angle, degrees	Weight, kg
SK - 1	140x140	54	2,4
SK - 2	140x140	45	2,4
SK - 3	140x140	12	1,8
SK - 4	200x200	54	4,5
SK - 5	200x200	45	4,8
SK - 6	200x200	14	2,4
SK - 7	300x300	54	7,9
SK - 8	300x300	45	9,0
SK - 9	300x300	14	4,7
SK - 11	350x350	54	13,4
SK - 12	350x350	45	14,0

REDUCER TYPE SP FROM SQUARE TO ROUND SECTION

Type	Hole size, mm	Weight, kg
SP - 5	140x140/Ø 140	1,5
SP - 6	200x200/Ø 140	3,6
SP - 40	200x200/Ø 180	6,2
SP - 7	200x200/Ø 220	4,7
SP - 9	300x300/Ø 300	6,9
SP - 26	350x350/Ø 380	8,2
SP - 29	450x450/Ø 300	10,9



SECTOR (LINK) TYPE SS

Type	Inner size, mm	Inclination angle, degrees	Weight, kg
SS - 1	140	27	2,4
SS - 2	140	54	2,6
SS - 3	140	45	2,3
SS - 4	220	27	4,8
SS - 5	220	54	6,2
SS - 6	220	45	6,0
SS - 7	300	27	7,0
SS - 8	300	54	10,4
SS - 9	300	45	8,8
SS - 11	220	36	5,5
SS - 12	300	36	8,5
SS - 13	380	27	11,0
SS - 14	380	54	16,0
SS - 15	380	45	14,0



REDUCER TYPE SP FROM ROUND TO ROUND SECTION

Type	Hole size, mm	Weight, kg
SP - 2	Ø300/Ø 220	3,6
SP - 24	Ø380/Ø 300	6,8
SP - 4	Ø300/Ø 220	5,8
SP - 25	Ø380/Ø 300	6,2



SYMMETRICAL ROUND INLET TYPE SVS

Type	Inner size, mm	Inclination angle, degrees	Weight, kg
SVS - 1	140	36	2,5
SVS - 2	140	45	2,6
SVS - 24	180	36	4,9
SVS - 22	180	45	5,1
SVS - 23	180	54	6,2
SVS - 3	220	36	7,3
SVS - 4	220	45	8,8
SVS - 5	220	54	10,1
SVS - 6	300	36	12,6
SVS - 7	300	45	13,7
SVS - 8	300	54	14,2
SVS - 15	380	36	14,9
SVS - 16	380	45	15,6



ROUND DOUBLE INLET TYPE SVD

Type	Inner size, mm	Inclination angle, degrees	Weight, kg
SVD - 1	140	36	4,6
SVD - 2	140	45	5,2
SVD - 24	140	54	6,2
SVD - 23	180	36	9,8
SVD - 22	180	45	10,4
SVD - 25	180	54	13,5
SVD - 3	220	36	14,2
SVD - 4	220	45	17,2
SVD - 5	220	54	19,6
SVD - 6	300	36	26,6
SVD - 7	300	45	27,2
SVD - 8	300	54	30,3
SVD - 15	380	36	30,9
SVD - 16	380	45	29,5



SYMMETRICAL SQUARE AND RECTANGULAR INLET TYPE SVS

Type	Inner size, mm	Inclination angle, degrees	Weight, kg
SVS - 9	140x140	36	3,9
SVS - 10	140x140	45	4,0
SVS - 11	200x200	36	9,5
SVS - 12	200x200	45	10,6
SVS - 13	300x300	36	14,2
SVS - 14	300x300	45	15,4
SVS - 17	350x350	36	15,7
SVS - 18	350x350	45	16,9
SVS - 19	219x496	36	15,0
SVS - 20	219x496	45	16,6
SVS - 21	296x496	36	17,6



DOUBLE SQUARE AND RECTANGULAR INLETS TYPE SVD

Type	Inner diameter, mm	Inclination angle, degrees	Weight, kg
SVD - 9	140x140	36	5,5
SVD - 10	140x140	45	6,6
SVD - 11	200x200	36	15,5
SVD - 12	200x200	45	17,7
SVD - 13	300x300	36	26,0
SVD - 14	300x300	45	27,3
SVD - 17	350x350	36	31,5
SVD - 18	350x350	45	35,1
SVD - 19	219x496	36	28,0
SVD - 20	219x496	45	30,4
SVD - 21	296x496	36	36,0



SINGLE ROUND INLETS TYPE SVO

Type	Inner diameter, mm	Inclination angle, degrees	Weight, kg
CBO - 1	140	36	3,5
CBO - 2	140	45	3,8
CBO - 22	180	45	8,8
CBO - 23	180	54	11,7
CBO - 3	220	36	11,2
CBO - 4	220	45	12,9
CBO - 5	220	54	14,2
CBO - 6	300	36	17,9
CBO - 7	300	45	20,4
CBO - 8	300	54	22,8
CBO - 15	380	36	25,8
CBO - 16	380	45	26,8



SINGLE SQUARE INLET TYPE SVO

Type	Inner size, mm	Inclination angle, degrees	Weight, kg
SVO - 26	300x300	54	33,6



CONVEYOR LEAF CHAIN

Chain is used in chain conveyors type KS. It is a main traction mechanism for chain conveyor. Chain consists of inner and outer plates connected between each other by pins. In chain of conveyor type KS-400 scrapers are welded to outer connection chain plate and in other chains scrapers are connected with links by pins. To diminish constant of chain friction and conveyor's casing as well as to decrease noise level a food rubber is fastened to each third scraper.

SKESS chains are made of high-strength and alloy steels.

Specification	KS-200	KS-300	KS-320	KS-390	KS-400
Chain pitch, mm	100	100	100	100	150
Width for chain with scrapers, mm	239	286	310	390	480
Weight for 1 running meter of chain, kg	11,8	17,6	14,8	15,2	9,7



ELEVATOR BUCKETS

Bucket is a main conveying part in different types of bucket elevators. It is designed for vertical conveying of grain and products of its processing. Elevator buckets are manufactured of sheet steel with different thickness and are fastened by bolted connections on elevator belt.

Specification	II-100	II-400
Width, mm	286	286
Overhang, mm	163	190
Height, mm	90	130
Volume, l	3,0	4,16
Bucket weight, kg	0,9	1,3





CONSTRUCTION

SKESS Corporation executes a full range of construction works by its own: from excavation to finishing works (pile, excavation, stone, concrete and reinforced concrete, reinforcing, formwork, installation and finishing works), as well as installation of silos and process equipment and electrical work.

COMPOSITION OF CONSTRUCTION MANAGEMENT:

- Engineering and technical personnel – 14 employees;
- Concrete workers – 35 employees;
- Installers for steel structures – 27 employees;
- Installers of process equipment – 31 employees;
- Installers of electrical equipment – 15 employees;
- Piling Division (Piling Station) – 6 employees;
- Tower-cranes and lifting devices managements – 12 employees.

THE MAIN TYPES OF INDUSTRIAL CONSTRUCTION IMPLEMENTED BY THE CORPORATION ARE:

- Grain elevators;
- Mills;
- Feed mills;
- Grain storage harbor elevators;
- Grain receiving stations and etc.

THE ADVANTAGES OF CONSTRUCTION AND INSTALLATION MANAGEMENT OF SKESS CORPORATION ARE THE FOLLOWING:

- application of the latest technologies and materials;
- the shortest construction time;
- strict compliance with building codes, GOST, SNiPs;
- all civil and installation works are performed by our qualified specialists.

Construction and installation division of SKESS Corporation has its own construction equipment: automobile cranes with the lifting capacity from 25 to 50 tons), excavators, tower cranes, mixer trucks, bulldozers, forklifts, pile drivers and dumping trucks.

Moreover SKESS Corporation structure includes a factory for production of concrete and mortar, which allows to reduce the cost of its purchase and delivery.

The construction period, depending on the level of complexity of facility, usually ranges from six months (grain elevator and grain storage facility) to one year (feed mill, terminal, residential complex).

LIST OF MOST IMPORTANT PROJECTS CARRIED OUT BY SKESS CORPORATION, LLC

Customer	Project description	Location	Installation year
Ministry for stocking, RSFSR	Granaries, mills, feed mills and other facilities for grain storage and processing including granaries of Rostov industrial complex and mill w/capacity of 500 to/day	Nothern Caucasus	1946-1994
Yugtransitservis, JSC (Taganrog Ship-Repairing Yard)	Granary in Taganrog, two stages, 15,000 to (1999) and 18,000 to (2002). Construction and installation, manufacture and supply of silos, equipment and steelware.	Taganrog of Rostov region	1999, 2002
Rice silos in Iraq (4x30,000 tonnes)	Under Contract with the Grain Board of Ministry of trade of Iraq, Oil for Food UN Programme. Supply of silos and equipment, construction on turn-key basis.	South of Iraq	2001-2002
Yugtransitservis, JSC (Taganrog Ship-Repairing Yard)	Granary in Azov, 50,000 to -designing and construction on turn-key basis, manufacture and supply of silos, equipment and steelware	Azov of Rostov region	2003 - 11 months
Promexpeditsiya, LLC	Granary, 30,000 to in Azov of Rostov region. Designing and construction on turn-key basis; manufacture and supply of silos, equipment and steelware.	Azov of Rostov region	April – October, 2004
Belgorod Fish Feed Mill	Supply of silos and equipment for granary of 30,000 to (2005), silos and equipment for granary extension (2008), supervision of installation	Belgorod region	2005
Novoborisovskoye Grain Reception Site, JSC	Feed mill, 420 to/day, including Buhler equipment, granary 12,000 to at the territory of Novoborisovskoye Grain Reception Site (KHPP) (2006). Designing, civil and installation works, manufacture and supply of silos, equipment and steelware	Belenkoye village of Belgorod region	2006
	Granary extension for 30,000 tonnes		April-September 2009
	Granary extension for 15,000 tonnes		April - August 2011
Lipetskmyasoprom, LLC	Feed mill with granary of 15,000 tonnes in Lev Tolstoy of Lipetsk region, granary extension on 80,000 tonnes. Designing, civil and installation works (without basements), manufacture and supply of silos, equipment for granary and steelware	Lev Tolstoy village in Lipetsk region	2006-2007
Charoen Pockpand Foods, Ltd, Thailand	Feed mill of 630to/day and granary of 7,500 to. Designing and civil and installation works on turn-key basis, supply of silos, equipment and steelware.	Lukhovitsy village of Moscow region	2007-2008
Terminal, LLC	Harbour granary of 15,000 tonnes. Design was fulfilled.	Starocherkassks of Rostov region	2007
Eysk grain systems, LLC	Granary of 250,000 tonnes. Design was fulfilled.	Eysk	2008
Nikiforovsky granary, LLC	Granary, 25,000 tonnes. Designing, supply and installation of silos, equipment and steelware. Designing of granary's extension.	Dmitrievka village of Tambov region	5 months, 2009
Stroytorg, LLC	Granary of 18,000 tonnes in Ryazan region. Supply of silos and equipment, supervision of installation.	Ryaghsk of Ryazan region	2009-2010
Agro-Invest Nedvighimost, LLC	Granary w/handling capacity of 60,000 to. Designing and construction on turn-key basis; manufacture and supply of silos, equipment and steelware.	Sokolovka village, Kshenskiy district of Kursk region	10 months, 2009-2010

Customer	Project description	Location	Installation year
Prokhorovsky Feed Mill, LLC (Miratorg, JSC)	Granary, 90,000 tonnes (18x5000), granary for solvent cake 3,500 tonnes. Supply and installation of silos.	Prokhorovka village of Belgorod region	September 2009- April 2010
Chelyabinsk Flour Mill, JSC	Designing of granary of 15,000 tonnes and supply of silos	Chelyabinsk	5 months, 2010
Pavlovskiy Oil production, LLC	Granary, 30,000 tonnes. Supply of silos and supervision of installation	Pavlovskaya stanitsa, Krasnodar region	2010 - 4 months
Kurganmuka, LLC	Granary 12,000 tonnes. Designing, manufacture and supply of silos and equipment. Supervision of installation.	Vargashi village of Kurgan region	2010-2011
Stroycomplect, JSC	Grain harbour terminal with loading to ship in Novorossiisk w/turnover of 2,5 mln.tonnes per year. First stage. Civil and installation works, supply of silos and steelware for first stage.	Novorossiisk	2010-2011
Avangard, LLC	Granary, 20,000 tonnes. Supply of silos and supervision of installation	Republic of Mordovia	2011
Irkutskiy maslozhirkombinat, LLC	Soya granary, 30,000 tonnes. Designing, manufacture and supply of silos and equipment, supervision of installation.	Berezovka village of Amursk region	2011 - 6 months
Tambovskiy Bekon, LLC	Elevator with handling capacity of 126 000 t (SPD 20/18 (5275 t) - 24 pcs), Elevator for oil cake - 4 160 t (SKD 7/6-70 (260 t) - 16 pcs). Supply and supervision of installation	Zherdevka of the Tambov Region	2011-2012
Prokhorovskiye kombikorms (feeds), LLC (Miratorg, JSC)	Granary, 96,000 tonnes (16x6000), granary for solvent cake 4,500 tonnes. Supply and supervision of installation of silos.	Prokhorovka village of Belgorod region	June 2011 - February 2012
Bryanskagrostroy, LLC (Miratorg, JSC)	Granary, 96,000 tonnes (16x6000), granary for solvent cake, 4,500 tonnes. Supply and supervision of installation of silos.	Pilchino village of Bryansk region	June 2011 - April 2012
Promexpeditsiya, LLC	Granary w/handling capacity of 75,000 to in Azov. Designing, civil and installation works on turn-key basis, manufacture and supply of silos, equipment and steelware.	Azov of Rostov region	November 2011 - December 2012
Yughny Agroterminal, LLC	Granary w/handling capacity of 21,000 to. Manufacture, supply and installation of silos (3x7000 to) and equipment	Rostov-on-Don	Started in 2012
Orteks, LLC (Reproduct, LLC)	Granary w/handling capacity of 36,000 to. Supply of silos and equipment; supervision of installation.	Bugulma of Tatarstan	2012
Stroytrest, LLC	Granary for solvent cake 12x960m3. Supply of silos and supervision of installation	Sorochinsk of Orenburg region	2012
Mikhailovskiy broyler, LLC	Supply of silos for granary of 12,000 t (4 x 3000 t)	Amur region	2012
Agrosib, LLC	Supply of silos and equipment for granary of 12,000 tons (2x6000tons)	Novossibirsk region	2012
Akoev, IE	Supply of silos and equipment for granary of 10,000 tons (5x2000t; 2x500t)	Vladikavkaz	2012

Customer	Project description	Location	Installation year
Kurganmuka, LLC	Extension of granary, 10,000 tonnes - under designing.	Vargashi village of Kurgan region	2012
Khlebnaya baza (corn depot) No.4	Granary of 20,000 tonnes - under designing.	Kurgan city	2012
Muza, JSC	Supply of silos and equipment for granary of 8,000 tons (4x2000t)	Chelyabinsk region	2013
Agro-Farn+, LLC	Supply of silos and equipment for granary of 16,000 tons (3x5000t; 2x500t)	the Republic of North Ossetia–Alania, Beslan	2013
Irkutskiy maslozhirokombinat, LLC	Granary for soya, 30,000t; design, production and supply of silos and equipment, supervision of installation	Poyarkovo, Amur region	2013
Evropeyskiye biologicheskkiyeologii, LLC	Granary, 77,000 tons (10x6000t; 6x2000t, 5x1000t). Production and supply of silos and process equipment	Samara region	2013
Grain terminal complex	Grain transfer terminal 110,000tons. Second stage. Turn-key basis construction	Taman, Krasnodar region	2014
Volghanin, LLC	Granary w/handling capacity of 36,000tons	Rybinsk, Yaroslav region	2014
Uralskaya myasnaya compania, LLC	Design fulfilled for feed mill of 40t/hr and granary of 90,000 tons	Republic Bashkortostan, Buzdyak	2014
Novokhoperskiy Khleb, LLC	Production and supply of grain storage silos (SPD 16/16 (3000 t) - 3 pcs)	Voronezh Region	2014
AgroEco-Vostok, LLC	Design, supply and construction on turn-key basis of grain storage elevator fulfilled, capacity 60 000 t, feed mill w/ capacity of 40 t/hr and warehouse for soft raw material of 3200 t	vill. Talovaya of the Voronezh Region	2014-2015
TAMAN Grain Terminal Complex	Grain transfer terminal of 110 000 t. The second stage. Construction on turn-key basis	vill. Taman of the Krasnodar Territory	2014-2015
Chelyabinsk Electrometallurgicheskiy Kombinat, JSC	Design fulfilled for granary of 90,000 tons. Supply and assembly of silos (10 x 9000 t) and process equipment	Chelyabinsk Region	2014-2015
Fat-Agro, LLC	Designing and supply of silos and equipment for granary w/ capacity of 5,000 t for storage of brewers maltand maiz	The Republic of Northern Ossetia – Alania, Vladikavkaz	2014 - 2015
AmurAgroHolding, LLC	Supply of silos and process equipment for granary w/capacity of 33,000 t (6 x 5,500 t). Supervision of installation in process.	Amur Region, vill. Ekaterinoslavka	2014 - 2015
PskovAgroInvest, LLC	Supply of silos and process equipment for granary w/ capacity of 8,000t	Pskov Region	2015
Prodeks-Omsk, LLC	Supply of hopper silos for storage of flour materials and husk	Omsk Region	2015

Customer	Project description	Location	Installation year
Chelyabinsk Electrometallurgicheskiy Kombinat, JSC	Design for feed mill w/capacity of 40 t/hr including granary for flout materials w/volume of 10,000m3 and granary for cereals of 170,000 t is completed. Supply of hopper silos for flour materials (70 degree slope), flat silos (8x10,000t) and process equipment or granary. Assembly of silos and equipment.	Chelyabinsk Region	2015-2016
Tatyana, LLC	Production and supply of silos and process equipment for grain elevator, 2 500 t (5x500 t)	vill. Tselina of the Rostov Region	2015-2016
Polymya, LLC	Manufacture ad supply of two flat silos SPD 16/16 (3,000t each) and process equipment	Voronezh Region	2016
Kalmanskiy Kombinat Khleboproduktov, LLC	Supply of hopper silos for storage of buckwheat w/ total volume of 8,350m3	Altay Region	2016
Bolotnoye Khleboprodukt, LLC	Manufacture and supply of silo for the second stage of granary, 4000 t	Novosibirsk Region	2016
Rubikom, LLC	Designing, supply of silos and process equipment for granary w/capacity of 9,200 t	Pavlodar, Kazakhstan	2016
UK TAVROS Ufa, LLC	Manufacture and supply of silos for storage of flour materials (6x213m3)	The Republic of Bashkortostan	2016
Okkskaya Ptitsefabrika, LLC	Grain storage silo w/capacity of 60,000 t in Ryazan Region. Designing, civil and installation works under turn-key basis, production and supply of silos, equipment and steelware.	Denezhnikovo vill., Ryazan Region	2016
Outspan International, LLC	Harbor grain terminal w/capacity of 62,000 t. Designing, civil and installation works under turn-key basis, production and supply of silos, equipment and steelware.	Azov, Rostov Region	2016
Ptitsefabrika Zelenetskaya, JSC	Supply of silos and process equipment for storage of soft raw-materials, 7,326 m3 (18 x407m3)	The Republic of Komi	2016
Muza, JSC	Supply of silos and process equipment for grain storage silos w/capacity of 15,000 tons (5x3000tons).	Kurgan Region	2016
Tatyana, LLC	Production and supply of second stage of silos (hopper silos SKD 9/8-45 - 5 pieces) and process equipment (Q=300 t/hr).	Tselina vill., Rostov Region	2016-2017
Agrotrade, LLC	Production and supply of silos for grain storage (hopper silos SKD 5/13-45 - 5 pieces., 350 m3).	Novosibirsk Region	2016-2017
Barnaul Pivovarenyy Zavod (Beer Factory), OJSC	Production and supply of grain storage silos (SPD 12/13 (1500 t) - 4 pcs.)	Altay Territory	2016-2017
SDS-Agro	Production and supply of grain storage silos (SPD 16/16 (3000 t) - 3 pca)	Kemerovo Region	2017
Novokhoperskiy khleb, LLC	Manufacture and supply of four grain flat bottom silos SPD 16/16	Voronezh Region	2017

Customer	Project description	Location	Installation year
AgroPromKomplektatsiya-Kursk, LLC	Manufacture and supply of grain flat bottom silos (SPD 27/17 - 13 000 m3 - 12 pcs.; SPD 18/17 (5700 m3) - 8 pcs. Hopper silos SKD 9/15-45 (1175 m3) - 4 pcs.)	Kursk Region	2017
Korall, LLC	Manufacture and supply of hopper silos for storage of flour materials (SKD 7/6-60 - 6 pcs., 350 m3)	Tversk Region	2017
PortTransLogistika, LLC	Manufacture and supply of 2 flat bottom silos SPD 20/18 (5275 tons each silo)	Eysk, Krasnodar Region	2017
Davlekanovskiy KHP No.1	Manufacture and supply of hopper silos for storage of flour materials SKD 5/7-60 (6 x 213m3)	Davlekanovo, the Republic of Bashkortostan	2017
Liman, JSC (Group of Companies Belaya Ptitsa)	Manufacture and supply of silos and process equipment for granary with capacity of 20,500 tons (6x3430 tons)	Rostov-on-Don	2017
Talina, LLC	Manufacture and supply of flat bottom silos for grain storage SPD 27/24 (17750 m3, 14,115 tons) - 4 pcs.	Kovylkino, the Republic of Mordovia	2017 - 2018
SKIFAGRO-DV, LLC	Designing, supply of silos and process equipment for granary with capacity of 9000 tons	Khabarovsk District	2017-2018
Rubikom, LLC	Designing and supply of silos and process equipment	Pavlodar, the Republic of Kazakhstan	2017-2018
Znamenskiy SGTs	Designing of feed mill with capacity of 40 t/hr, including granary for flour raw material w/volume of 4300m3. Manufacture and supply of hopper silos for warehouse of flour and grain raw material (SKD 7/6-60, 10 pcs.)	Orlov Region	2018
AgroPromKomplektatsiya-Kursk, LLC	Manufacture and supply of grain flat bottom silos (SPD 20/17 - 6 pcs.; hopper silos SKD 9/9-45 - 2 pcs.)	Tversk Region	2018
Khleborob, LLC	Manufacture and supply of silos for storage of grain (SPD 14/13 2pcs)	Altay District	2018
Irkutskiy maslozhirokombinat, LLC (Refinery)	Manufacture and supply of silos and process equipment for granary of 30,000 tons (flat bottom silos SPD 20/17 - 6 pcs.)	Berezovka, Amur Region	2018-2019
PTF Zelenetskaya, JSC	Feed mill w/capacity of 30 t/hr including granary w/ capacity of 79,500 t (flat bottom silos SPD 20/17 - 14 pcs.; SPD 14/13 - 5 pcs.) Designing, manufacture and supply of silos and process equipment, supervision.	The Republic of Komi	2018-2019
Kovylkinskiy KKZ, LLC	Manufacture and supply of flat bottom silos for storage of grain SPD 27/24 (17750 m3, 14,115 tons) - 6 pcs.	Kovylkino, the Republic of Mordovia	2018 - 2019
Rubikom, LLC	Designing and supply of silos and process equipment (SPD 14/15 - 3 pcs., SKD 9/8-45, SKD 4/7-60)	Pavlodar, the Republic of Kazakhstan	2019
RUSKOM-Agro, LLC	Manufacture and supply of silos for granary (SPD 32/16 - 16 892 m3, 13 429 tons) - 2 pieces and process equipment, supervision of installation	Omsk Region	2019
Yaroslavskiy Broiler, JSC	Manufacture and supply of silos for granary (SPD21/11 - 6 pcs., SKD 8/14-60 - 8 pcs.), designing of steel structures, assembly of silos and process equipment	Yugoslavl Region	2019

Customer	Project description	Location	Installation year
Chelnykhleboprodukt, JSC	Manufacture and supply of silos for granary (SKD 7/7-60 - 4 pcs., SKD 7/8-45 - 1 pcs., OAT 2x3/4-60 - 2 pcs.)	The Republic of Tatarstan	2019
TYULGANSKIY MASLOZAVOD, JSC (oil refinery)	Manufacture and supply of silos for granary (SPD20/17 - 2 pcs., SKD 9/8-45 - 1 pcs., SKD 7/10-45 - 1 pcs.) and process equipment	Orenburg Region	2019
Ptitsefabrika Ostrovnoyaya, JSC	Manufacture and supply of silos for granary (SPD10/12 - 4 pcs., SKD 9/7-60 - 4 pcs.)	Sakhalin Region, Yuzhno-Sakhalinsk	2019
AgroBiyskPererabotka, LLC	Manufacture and supply of silos for granary (SPD14/18 - 3 pcs.) and process equipment	Altay District, Biysk	2019
Kamensk Elevator, LLC	Manufacture and supply of silos for granary (SPD18/16 - 3 pcs., SKD 7/9-45 - 1 шт)	Altay District, Kamen-na-Obi	2019
Rubikom, LLC	Designing and supply of silos and process equipment (SPD 14/15 - 3 pcs.)	Pavlodar, the Republic of Kazakhstan	2019
Gold Grain, LLC (Prikhoperskiy Elevator)	Manufacture and supply of silos for granary (SPD23/17 - 4 pcs.) and process equipment	Saratov Region	2019
Rostovskiy Zernovoy Terminal, LLC (Bunge)	Manufacture and supply of silos for granary (SPD23/14 - 2 pcs.) and process equipment	Rostov Region	2019
AgroPromKomplektatsiya -Kursk, LLC	Manufacture and supply of silos for granary (SPD20/17 - 6 pcs.)	Tver Region	2019
Agro-Invest Nedvigzimost, LLC	Manufacture and supply of silos for granary (SKD 7/13-45 (520 t) - 6 pcs.)	Kursk Region, vill.Bykovo, vill. Generalshino, Lipetsk Region, vill. Gzernovnoye	2020
AgroPromKomplektatsiya -Kursk, LLC	Manufacture and supply of silos for granary (SPD27/17 (13 000 m3) - 12 pcs.; SPD18/17 (5700 m3) - 8 pcs. SKD 9/15-45 (1175 m3) - 4 pcs.)	Ryazan region	2020
Rubikom, LLC	Designing and supply of silos (SPD14/15 (2300 t) - 3 pcs.) and process equipment. Second Stage	Pavlodar, the Republic of Kazakhstan	2020
Kubanoptprodorg, JSC	Manufacture and supply of silos for granary (SPD23/17 (7 100 t) - 1 pcs.; SPD16/17 (3 300 t) - 2 pcs.; OAT 4/6-45	Krasnodar District, st. Starovelichkovskaya	2020
BASHKIR-AGROINVEST, LLC	Manufacture and supply of silos for granary (SKD 7/10-45 (400 t) - 5 pcs.)	The Republic of Bashkortostan, Chishim Region	2020
BEZRK, JSC	Manufacture and supply of silos for granary (SPD20/17 (5000t) - 10 pcs.) and process equipment.	Belgorod Region	2020
PrimaKUS, LLC	Designing of feed mill w/capacity of 20 t/hr and grain storage silo with handling capacity of 50,000 tons	The Republic of Kazakhstan	2020
Novorossiyskiy Zernovoy Terminal, LLC	Designing and civil and installation works for reconstruction of grain storage terminal	Novorossiysk	2020

Customer	Project description	Location	Installation year
ORELMASLO, LLC	Production and supply of process equipment w/ capacity of 175 t/hr	Orlov Region	2020
ALEL AGRO, JSC	Production and supply of silos for grain storage (SPD 16/16 (3100 t) - 4 pcs, SKD7/8-60 (455 m3) - 8 pcs, SKD 6/7-45 (222 t) - 2 pcs.)	the Republic of Kazakhstan, Zhambylskaya Area, Bayzakiy Region	2020
AGRO FIT KAPSHAGAY, LLC	Production and supply of silos for grain storage (SPD 16/14 (3450 m3) - 2 pcs)	the Republic of Kazakhstan, Almatinskaya Region, Kapshagay	2020
KUZBASSKIY BROYLER, LLC	Production and supply of silos for grain storage (SPD 20/17 (5 000t) - 5 pcs; SPD 16/16 (3 000t) - 1 pcs)	Kemerovo Region, Novokuznetsk, vil. Metallurgov	2020-2021
APO AVRORA , JSC	Production and supply of silos for grain storage (SPD 22/14 (5 400 t) - 2 pcs)	Lipetsk Region	2021
Agro-Invest Nedvighimost, LLC	Production and supply of silos for grain storage (SPD 21/14 (5 000 t) - 4 pcs) and process equipment. Supply of grain dryer MEGA TC 120 - 1 pcs	Lipetsk Area, Dolgorukovskiy Region, vil. Zhernovnoye	2021
Agro-Invest Nedvighimost, LLC	Production and supply of silos for grain storage (SPD 21/14 (5 000 t) - 8 pcs) and process equipment. Supply of grain dryer MEGA TC 200 - 1 pcs	Tambov Area, Morshanskiy Region, vil. Raksha	2021
Agro-Invest Nedvighimost, LLC	Production and supply of silos for grain storage (SPD 21/14 (5 000 t) - 6 pcs) and process equipment. Supply of grain dryer MEGA TC 160 - 2 pcs	Lipetsk Area, Dankovskiy Region, vil.Politovo	2021
ISTOKI , LLC	Production and supply of silos for grain storage (SKD 9/12-60 (825 t) - 2 pcs) and truck loading device OAT 2xSKD 5/7-45 - 1 pcs (400 m3)	Orlov Region	2021
KAMENSKIY ELEVATOR, LLC	Production and supply of silos for grain storage (SPD 25/20 (10 250 t) - 3 pcs)	Altai, Kamen-na-Obi	2021
ANGARSKAYA PTITSEFABRIKA, JSC	Designing of elevator. Production and supply of silos for grain storage (SPD 20/17 (5000 t) - 2 pcs) and process equipment.	Irkutsk Region, Angarsk	2021
RUSKONTRAKTOR , LLC	Production and supply of silos for grain storage (SPD 23/18 (7 400 t) - 5 pcs, SKD 7/6-70 (412 m3) - 15 pcs) and process equipment.	Penza Area, Kolyshleyskiy Region, r.vil. Kolyshley	2021
AGROSIB, LLC	Production and supply of silos for grain storage (SPD 23/12 (5 000 t) - 2 pcs)	Novosibirsk Region	2021
APO AVRORA, JSC	Production and supply of silos for grain storage (SPD 30/14 (10 340 t) - 2 pcs)	Orlov Region	2021
BLINOVSKOYE , LLC	Production and supply of silos for grain storage (SPD 16/16 (3 000 t) - 4 pcs)	Altai	2021
GREENAGRO-PRIMORIYE, LLC	Production and supply of silos for grain storage (SPD 27/17 (13 000 m3) - 2 pcs, SPD 22/13 (6 300 m3) - 3 pcs, SKD 7/7-70 (452 m3) - 5 pcs, SKD 9/8-45 (678 m3) - 3 pcs, OAT 2xSKD 3/4-45 (100 m3) - 1 pcs). Supply of grain dryer MEGA TC 120 - 1 pcs	Primorskiy Region	2021-2022

Customer	Project description	Location	Installation year
PMK SPP (EFKO), OJSC	Production and supply of silos for grain storage (SPD 32/16 (13 430 t) - 12 pcs, SKD 9/12-60 (830 t) - 2 pcs, SKD 4/9-45 (135 t) - 4 pcs)	Samara Region, Toliyatti	2021-2022
KAMENSKIY ELEVATOR, LLC	Production and supply of silos for grain storage (SPD 23/17 (7 000 t) - 3 pcs)	Altai, Kamen-na-Obi	2021-2022
MIKHAILOVSKOYE (RUSSKIY DOM), LLC	Production and supply of silos for grain storage (SPD 22/16 (7 600 m3) - 12 pcs, SKD 7/12-60 (630 m3) - 6 pcs)	Kursk Region, Rylsk	2021-2022
Agro-Invest Nedvighimost, LLC	Production and supply of silos for grain storage (SPD 21/14 (5 000 t) - 8 pcs, SKD 9/15-45 (935 t) - 2 pcs) and process equipment.	Tambov Area, Morshanskiy Region, vil. Raksha	2021-2022
AGROSIB, LLC	Production and supply of silos for grain storage (SPD 23/14 (5 950 t) - 1 pcs, SPD 16/16 (3 000 t) - 4 pcs, SKD 7/10-45 (410 t) - 2 pcs).	Novosibirsk Region, vil. Kochenevo	2021-2022
ISTOKI, LLC	Production and supply of silos for grain storage (SKD 9/12-60 (825 t) - 2 pcs) and truck loading device OAT 2xSKD 5/7-45 - 1 pcs (400 m3)	Orlov Region	2021-2022
Kovylkinskiy KKZ, LLC	Production and supply of silos for grain storage (SPD 22/13 (5 000 t) - 8 pcs, SKD 9/14-45 (885 t) - 10 pcs). Supply of grain dryer MEGA TC 420 - 1 pcs	Kovylkino of the Republic of Mordovia	2021-2022
MUZA, JSC	Production and supply of silos for grain storage (SPD 16/16 (3 000 t) - 6 pcs.)	Kurgan Region	2022
UK Avgust-Agro	Production and supply of silos for grain storage (SPD 23/18 (7 400 t) - 4pcs.)	Republic of Tatarstan	2022
Naberezhnochelninskiy elevator, JSC	Production and supply of silos for grain storage (SPD 20/17 (5 000 t) - 10pcs., CKД 8/8-60 (470 t) - 4pcs.) and process equipment.	Republic of Tatarstan	2022
APO Avrora, JSC	Production and supply of silos for grain storage (SPD 30/14 (10 340 t) - 2pcs.)	Orlov region	2022
Kagalnitskiy Elevator, JSC	Production and supply of silos for grain storage (SPD 22/16 (7 600 m3) - 3pcs.)	Rostov region	2022
UK Avgust-Agro	Production and supply of silos for grain storage (SPD 23/18 (7 400 t) - 4pcs.) - 2 stage	Republic of Tatarstan	2022

**GRAIN ELEVATORS FOR RICE IN IRAQ ABUSKHER,
DIWANIYA, SHAMIYA AND KUFA GOVERNORATES**
2002

**Elevators with handling capacity of 15,600 tons
each 78 hopper silos Type SKD 7/8-45 were installed with
handling capacity of 200 tons each silo.**



AGRO-INVEST NEDVIGHIMOST, LLC
VILL.SOKOLOVKA, KURSK REGION
2009-2010

Grain Elevator with handling capacity of 60,000 tons.
12 flat silos Type SPD 23/12 with handling
capacity of 5,000 tons each were installed.



VOLGHANIN, LLC
RYBINSK, YAROSLAVL REGION
2014

Grain elevator with handling capacity of 36,000 tons
12 flat silos Type SPD 16/16 with
capacity of 3,000 tons each were installed.



OKSKAYA PTITSEFABRIKA, LLC
VILL. DENEZHNIKOVO, RYAZAN REGION
2016

Grain elevator with handling capacity of 60,000 tons
10 flat silo type SPD 23/14 with
capacity of 6,000 tons each were installed.



**YUGTRANZITSERVIS, JSC
AZOV, ROSTOV REGION,
2003**

**Harbour grain elevator with the handling capacity of 48,000 tons.
16 flat silos SPD 16/16
with the capacity of 3,000 tons each were installed.**



OUTSPAN INTERNATIONAL, LLC
AZOV, ROSTOV REGION
2016

Extension of port elevator.
New capacity is 110,000 tons.
5 silos type SPD 20 / 26 with the capacity of 7,500 tons each and 4 silos type SPD 17/26 with the capacity of 6,150 tons are installed.
The total capacity of the second stage of silos was 62,000 tons.



**PROMEXPEDITSIYA, LLC (LLC «TD «RIF»)
AZOV, ROSTOV REGION
2004**

**Harbour grain elevator with the handling capacity of 30,000 tons.
10 silos type SPD 16/16 with the
capacity of 3,000 tons each were installed.**



**PROMEXPEDITSIYA, LLC (LLC «TD «RIF»)
AZOV, ROSTOV REGION
2012**

**Extension of the port grain elevator up to 102,000 tons.
12 silos type SPD 20/17 were installed for storage of grain, 5,000 tons each
and 4 extra silos type SPD 16/16 with the volume of 3,000 tons.**



NOVOBORISOVSKOYE GRAIN RECEPTION SITE, JSC
VILL. BELENKOE, BELGOROD REGION
2006-2009

**A feed mill with the capacity of 420 tons / day and grain elevator with the handling capacity of 24,000 tons.
8 silos type SPD 16/16 for storage of grain, 3,000 tons each, were installed.**



LIPETSKMYASOPROM, LLC
VILL. LEV TOLSTOY, LIPETSK REGION
2006 – 2007

A feed mill with the capacity of 600 tons / day and grain elevator with the handling capacity of 95,000 tons.
5 silos type SPD 16/16 for storage of grain 3,000 tons each and 10 silos type SPD 21/24 with the capacity of 8,000 tons were installed.



CHAROEN POCKPAND FOODS, LTD, THAILAND
LUKHOVITSY, MOSCOW REGION
2007-2008

A feed mill with the capacity of 630 tons / day and a grain elevator with the handling capacity of 8,500 tons.
5 flat bottom silos SPD 12/15 with the capacity of 1,700 tons each were installed.



PROKHOROVSKY FEED MILL, LLC (MIRATORG, JSC)
VILL. PROKHOROVKA, BELGOROD REGION
2009 – 2010

A feed mill in complete with the grain elevator for 90,000 tons.
Grain elevator for storage of solvent cake 3500 tons. 18 flat bottom silos Model SPD 20/17 with the capacity of 5,000 tons each were installed.



TAMBOVSKIY BEKON, LLC
ZHERDEVKA, TAMBOV REGION
2011-2012

Feed mill and grain elevator with the capacity of 126,600 tons.
Elevator for storage of solvent cake with a capacity of 4 160 tons. | 24 flat bottom silos Model SPD 20/18,
5 275 tons each, and 16 hopper silos Model SKD 7 / 7-60 with the capacity of 260
tons each, were installed.



AGROECO-VOSTOK LLC
VILL. TALOVAYA, VORONEZH REGION
2014

A feed mill with the capacity of 40 tons / hour and grain elevator with the handling capacity of 60,000 tons, warehouse for soft raw materials of 3,450 tons. 16 hopper silos Model SKD 6 / 8-60 with the capacity of 215 tons each and 12 flat silos Model SPD 20/17 with the capacity of 5,000 tons each were installed.



AGROPROMKOMPLEKTATSIYA-KURSK, LLC
KURSK REGION
2017

Grain elevator with the capacity of 160,000 tons.
12 flat silos Model SPD 27/17 with the capacity of 10,300 tons each, 8 flat silos
Model SPD 18/17 with the capacity of 4,540 tons and 4 hopper silos
Model SKD 9/15-45 with the capacity of 945 tons.



**AGROPROMKOMPLEKTATSIYA-KURSK, LLC
(AGROFIRMA «DMITROVA GORA»), TVER REGION
2018-2019**

**Grain elevator with the handling capacity of 60,000 tons.
12 flat silo Model SPD 20/17
with the capacity of 5,000 tons each were installed.**



TALINA, LLC (KOVYLKINSKIY KKZ, LLC)
KOVYLKINO, THE REPUBLIC OF MORDOVIA
2017-2018-2019

**A feed mill and grain elevator with the handling capacity of 141,150 tons.
10 flat silos Model SPD 27/24 with the capacity of 14 115 tons each were
installed.**



AGROPROMKOMPLEKTATSIYA – KURSK, LLC
RYAZAN REGION
2020

**Manufacture and supply of silos for granary (SPD27/17 (13 000 m³) - 12 pcs.;
SPD18/17 (5700 m³) - 8 pcs.
SKD 9/15-45 (1175 m³) - 4 pcs.).**



BEZRK, JSC
BELGOROD REGION
2020

Grain elevator with the capacity of 50 000 tons.
Manufacture and supply of silos for granary (SPD20/17 (5000t) - 10 pcs.)
and process equipment.





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