



In 1993, Anatoly Kobzarenko started the production of garden carts in his garage, eventually grew into a leading manufacturer of agricultural equipment on the Ukrainian market and opened the way for his company to sell on the global market.



**30+ YEARS
OF EXPERIENCE**



**34 EXPORT
COUNTRIES**



**40.000 M²
PRODUCTION AREA**

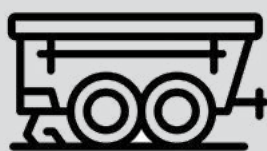


**CERTIFIED
COMPANY**

Today, the Kobzarenko Group of Companies is a family business that is continued by Anatoly's children - Dmytro and Maria. The group of factories has large capacity for production and storage of products that provides agricultural, utility and logistics sectors needs on a daily basis.



**1000+
EMPLOYEES**



**15.000+
SOLD MACHINES**



**60 MIO
TURNOVER**



**EUROPEAN
CONFORMITY**



Zlobnica, Poland



Lypova Dolyna, Ukraine



Romny, Ukraine





Loading grain in to truck



ShRP extension screw for loading seeders



CHASER BINS

PBN are used for:

- grain transportation from the combine and reloading into machines;
- seeder loading;
- loading bigbag.

Principle of operation:

Horizontal feed auger transporting grain to vertical unloading auger what reloads it. Auger spirals are made of special steel produced by Tehnofer (Italy). The spirals are perfectly centered before installing, so grain is not exposed to damage. The augers are powered by the tractor PTO at 540/1000 rpm.

Additional equipment:

- weighing system with printer, GPS, GPRS, Tablet with GPRS (Dinamica Generale Italy);
- awning system;
- PVC sleeve (IPL Italy) Ø 300 mm (400 mm) length 1,2 m for loading seeders machines;
- hydraulic adjustable peak of auger;
- auger extension SHRP-5, Ø 250 mm, length 5 m for loading seeders complexes;
- changeable body of trailer: spreader of mineral fertilizers, tanks for water, dumper trailer on chassis of PBN



NEW!
PBN-50 on tracks

	PBN-9	PBN-16	PBN-20	PBN-20-2	PBN-30 euro	PBN-30	PBN-36	PBN-40	PBN-50	PBN-50 on tracks
Volume, m³	9	16	20	20	28	30	36	40	50	50
Technically permissible total mass, kg	9 830	16 000	19 035	20 500	28 200	29 700	40 000	42 250	50 570	54 500
Empty weight, kg	2 630	4 750	4 885	5 800	6 900	7 200	9 250	9 700	12 570	16 500
Trailer: length, mm	5 140	7 070	7 540	7 585	8 600	8 500	10 520	10 450	11 450	11 450
width, mm	2 450 / 2 650	2 480 / 2 530	2 480 / 2 950	2 480 / 2 700	2 500 / 2 900	2 980 / 3 000	2 500 / 3 000	3 000	3 000	3 765
height, mm	3 220	3 450	3 800	3 800	3 900	3 900	3 900	3 900	4 000	4 110
Axles, pcs.	1	2	1	2	2	2	3	3	4	-
Auger diameter, mm	300	420	420/520	420/520	520	520	520	520	520 / 625	625
Productivity, t/min: - 540 rpm / - 1000 rpm	1.8 -	3 6	3/6 12	3/6 12	6 12	6 12	6 12	6 12	6/12 12/25	12 25
Standart tires	550/60-22,5	425/70-18	650/65-	550/60-22,5	560/60R22,5	560/60R22,5	560/60R22,5	560/60R22,5	560/60R22,5	560/60R22,5
Maximum tires	650/55R26,5	500/60R22,5	30,5	650/55R26,5	850/40R26,5	850/40R26,5	850/40R26,5	850/40R26,5	850/40R26,5	650/50R22,5
Recommended tractor power (hp)	80	120	120-150	120-150	180-220	180-220	220-300	220-300	300-350	350-400



TZIP-39 Atlant

PUSH OFF TRAILER "ATLANT"

Characteristics	TZIP-22	TZIP-27	TZIP-35	TZIP-39	TZIP-46	Body AZP-60 for installation on a container ship	PERSPECTIVE DEVELOPMENTS	
							AZP-68 with chassis	Body AZP-68 for installation on a container ship
Technically permissible total mass, kg	22 500	27 000	27 000	39 830	49 000	-	35 000	-
Empty weight, kg	6 000	8 200	8 600	9 830	12 000	7 150	13 200	8 200
Volume, m ³ with stripes m ³	22 26	30 36	35 41	40 47	46 55	46 55	68	68
Body with board: - length, mm	5 650	7 100	8 100	9 600	10 800	10 800	12 300	12 300
- width, mm	2 300	2 300	2 300	2 300	2 300	2 300	2 300	2 300
- height, mm	1 950	1 950	1 950	1 950	2 000	2 000	2 400	2 400
Standart tires Maximum tires	560/60R22,5 850/40R26,5	560/60R22,5 850/40R26,5	550/60-22,5 850/40R26,5	560/60R22,5 850/40R26,5	560/60R22,5 650/50R22,5	-	385/65 R 22,5	-
Oil needed, liters	≈ 23	≈ 30	≈ 35	≈ 41	≈ 55	≈ 54	≈ 60	≈ 60
Axles, pcs.	2	2 / 3	2 / 3	3	4	-	3	-
Recommended tractor power (hp)	150-200	220-250	220-250	250-300	300-350	-	-	-

Five trailers in one:

- sliding trailer;
- spreader of organic fertilizers;
- chaser bin;
- beet (piler);
- beet reloaer in the car

Principle of operation:

The semi-trailer is unloaded using the offset method. First, the rear side opens and the hydraulic cylinder is turned on, which moves half the bottom together with the front wall - pushes the load back. Having reached the middle, another hydraulic cylinder is turned on, which moves only the front wall to the end of the semi-trailer.

Additional equipment:

- awning system;
- hydraulic suspension;
- stripes 380 mm;
- weight system
- spreader mechanism;
- reloading auger;
- beet piling;
- beet reloaer in car



Spreader of organic fertilizers



Reloading auger



Beetroot reloading mechanism



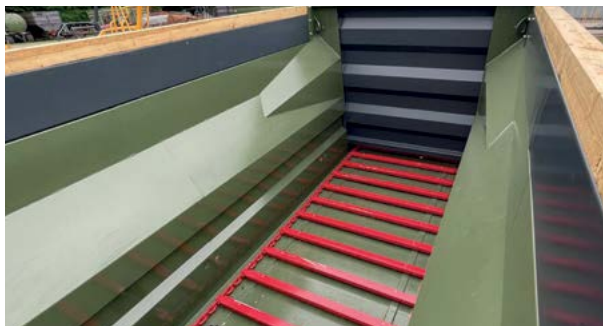
Sliding semi-trailer for trucks AZP-60 Atlant



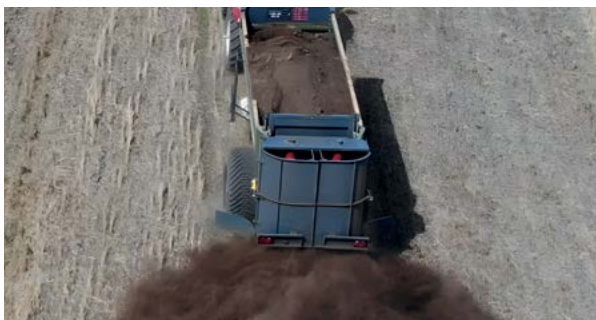
Hydraulic side opening h-400 mm



Rear wall opened hydraulically



1.3 m wide apron conveyor.



Application of organic fertilizers with lower plates - minimum rate



Regulation of the contribution rate



Fertilizer spreader ROD-12



MANURE SPREADER

ROD-12 organic fertilizer spreader semi-trailer with one ADR axle (Italy), two vertical flails and two discs with a diameter of 88 cm, the flails are mounted on a Grazioli reducer, complete with replaceable knives.

The spreader works well with such materials: poultry droppings, compost, manure, peat, lime and other types of solid organic fertilizers. Vertical rammers are designed for farms where it is necessary to distribute the densest mass obtained as a result of the production of dairy or fodder livestock. Compared to machines with horizontal beaters, vertical beaters will spread the mass more evenly and over a large width (7-12 m, depending on the parameters of the applied mass).

The rear wall can be hydraulically adjusted to set the seed rate.

	ROD-12
Volume, m ³	12
Volume with extensions, m ³	15
Technically permissible total mass, kg	20 600
Empty weight, kg	6 600
Body dimensions, mm - length	4 700
- width	2 150
- height	2 000
Semi-trailer dimensions, mm - length	8 150
- width	2 950
- height	3 300
Tires	650/65-30,5
Recommended tractor power (hp)	150-200
Working width, m	7 - 12

Technical data:

- ADR single-axle unit (Italy);
- hydraulic drawbar support;
- air brake system;
- road lighting system installed

Spreader features:

- the conveyor drive by hydraulic;
- fertilizer is supplied by a chain conveyor (16 mm hardened chain) with a width of 1300 mm. In the event of a heavy foreign object hitting the trailer, a sensor is activated to stop the conveyor from moving;
- the sowing dose is adjusted by the operator from the tractor's hydraulic system;
- the height from the ground to the spreading vanes (plates) is 980 mm.

NEW



Semi-trailer TSP-6t



Semi-trailer TSP-16t



Semi-trailer TSP-12b Building



Semi-trailer TSP-40

DUMP TRAILERS



	TSP-3	TSP-6t	TSP-10	TSP-10t	TSP-14	TSP-16	TSP-16t	TSP-20	TSP-30	TSP-40
Sides of unloading	3	3	1	3	1	1	3	1	1	1
Empty weight, kg	800	1 600	2 400	2 300	3 400	4 300	4 600	5 950	6 840	10 000
Technically permissible total mass, kg	3 300	6 000	10 400	10 300	13 400	16 300	16 600	21 950	26 840	40 000
Axles, pcs.	1	1	2	2	2	2	2	2	2	3
Body: length, mm	2 890	4 015	4 450	4 530	5 140	5 140	4 930	5 600	6 500	8 000
width, mm	1 740	2 105	2190/2240	2 200	2175/2235	2230/2310	2 270	2230/2295	2 325	2 325
height, mm	500	500	1 115	500	975	1 540	600	1 540	1 475	1 640
Height stripes, mm	-	-	-	-	600	600	-	600	600	600
The height of the 2nd tier of the sides, mm	500	500	-	500	-	-	800	-	-	-
Volume, m³	2,6	4,2	10,7	10,0	10,7	17,2	-	19,5	21	29
Volume with stripes or 2nd tier, m³	5,2	8,4	-	-	17,5	24	16	27,3	30	40
Standart tires	10.0/75	11,5/80-15,3	11,5/80-15,3	11,5/80-15,5	425/70-18	425/70-18	425/70-18	550/60-22,5	560/60R22,5	560/60R22,5
Maximum tires	-15,3	355/65-16	400/60-15,5	400/60-15,5	500/50-22,5	560/45R22,5	500/50-22,5	650/50R22,5	710/50 R 26,5	710/50 R 26,5
Recommended tractor power (hp)	34	60	80	80	100-110	120	120-150	150-180	220-250	250-300



Three-way unloading trailers can be easily transformed into a conventional platform



Coupling - 2TSP-14 + 2TSP-14



Back wall adopted for reloading auger



Conical body prevents of hanging green mass and fertilizers



DUMP TRAILERS



	2TSP-6	2TSP-8	2TSP-14	2TSP-16	2TSP-21	3TSP-24	4TSP-32
Sides of unloading	3	3	3	3	3	3	3
Empty weight, kg	1 500	2 100	3 600	4 000	5 000	6 000	8 000
Technically permissible total mass, kg	6 000	8 100	13 600	16 000	21 000	24 000	40 000
Axles, pcs.	2	2	2	2	2	3	4
Body: length, mm	4 200	4 050	4 970	4 430	5 400	6 540	8 550
width, mm	2 245	2 105	2 170 / 2215	2 270 / 2310	2 270 / 2 310	2 270 / 2 310	2 490
height, mm	600	500	600	800	800	800	800
The height of the 2nd tier of the sides, mm	600	500	600 (800)	800	800	800	800
Volume with 1 tiers of sides, m³	5	4,2	7	-	-	-	-
Volume with 2 tiers of sides, m³	10	8,4	14 (16,5)	16	21	24	32
Standart tires	11,5/80-15,3	11,5/80-15,3	500/50-17	445/45 R19,5	385/65R22,5	385/65R22,5	385/65R22,5
Maximum tires		355/65-16			445/65R22,5	445/65R22,5	445/65R22,5
Recommended tractor power (hp)	30	80	100-110	120-150	120	from 130	300

- air brake system (one or two contoured), hydraulic;
- axles (ADR Italy);
- disks – Pronar (Poland);
- hydraulic cylinders Di Natale-Bertelli (Italy);
- towing eye Ø 40 mm, 50 mm (Scharmuller - Austria);
- hydraulic drawbar support.

Additional equipment:

- stripes for additional volume;
- awning system;
- lookout platform;
- auger for loading the seeders.



Self-loading bale trailer PT-18

SELF-LOADING BALE TRAILERS

	PT-18	PT-21(E)	PT-24(E)	PT-24(R)	PT-30(E)	PT-30(R)
Quantity of bales pcs.	18	21	24	24	30	30
Diameter/size of bale, m	1.2 - 1.5	1.2 - 1.5	1.2 - 1.5	1.5 - 1.8	1.2 - 1.5	1.5 - 1.8
Capacity ,kg						
- grab	500	1000	1000	1000	1000	1000
- platform (depends on tires)	6000 / 7000	10000/15000	10000 / 15000	10000 / 20000	10000 / 15000	10000 / 20000
Weight, kg - empty (depends on tires)	2500	6050	6250	6600	6700	7000
- Technically permissible total mass, kg	8500 / 9500	16050/21050	16250 / 21250	16600 / 26600	16700 / 21700	17000 / 27000
Dimensions, mm						
- length	10140	11700	12700	15000	15000	15000
- width (depends on tires and bale)	2830 / 3000	2550 / 3000	2550 / 3000	3400 / 3600	2550 / 3000	3400 / 3700
- height (depends on tires and bale)	3920 / 4000	3800 / 4000	3800 / 4000	4000 / 4600	3800 / 4000	4000 / 4600
Axles, pcs.	1	2	2	2	2	2
Tires	425/70-18 500/50-17	425/70-18 600/50R22,5	425/70-18 600/50R22,5	425/70-18 600/50R22,5	425/70-18 600/50R22,5	425/70-18 600/50R22,5
Recommended tractor power (hp)	80	120	120	120-220	120-220	120-220

Note: E - Eurostandard (for bales 1.2-1.5m) R - extended platform (for bales 1.5-1.8m)



The universal hydraulic paw on the go unfolds the roll and loads on the platform



Folding side board



Loading



Transportation



Unloading



Maximum weight of the bale is 750 kg



Self-loading bale trailer TK-12



Unloading the bale semi-trailer on a flat and solid surface takes 30-40 seconds



Unloaded bales in haystack without using of additional equipment



SELF-LOADING BALE TRAILERS

	PT-16 KVADRO	TK-12
Quantity of bales, pieces	14 / 16 / 18	12 / 12 / 14
Dimensions of bales, m	2,4x1,2x0,9 2,4x1,2x0,8 2,4x1,2x0,7	2,4x1,2x0,9 2,4x1,2x0,8 2,4x1,2x0,7
Capacity, kg		
- paw	750	2 000
- platform	10 000	11 340
Weight, kg - empty	8 700	8 350
- Technically permissible total mass	18 700	19 690
Sizes, mm		
- length	8930x2550x3670	8670x3630x3980
- width		
- height		
Axles, pcs.	2	2
Tires	550/60-22,5	550/45-22,5
Recommended tractor power (hp)	200	185

- ADR axes (Italy);
- hydraulic motor WR-250 (Danfos license);
- mechanical support;
- tipper trailer: loading table with hydraulic shift;
- hydraulically driven chain conveyor;
- automatic loading system with manual joystick control

BALE GRIPPERS



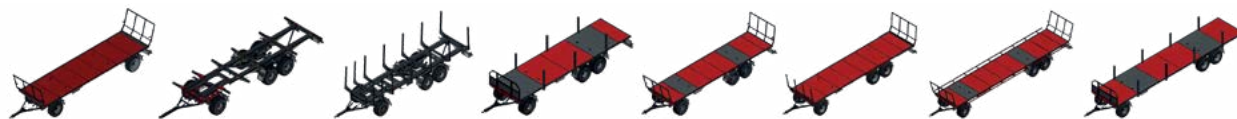
Grab for rectangular bales



Round bale grab



PLATFORM TRAILERS



	PP-9/2	PP-8,5/3 Special	PP-8,5/3 Forestry	PP-9/3 powerful bottom	PP-9,5/3	PP-10,7/3	PP-12/3	PP-12/3 powerful bottom
Technically permissible total mass, kg	13 000	18 800	19 800	20 300	24 000	18 000	21 000	21 300
Empty weight, kg	4 000	2 800	2 800	5 300	4 700	4 000	5 000	5 300
Platform LxW, mm	9010x2390	8500x2600	8500x2550 (2260/2355)	9010x2450 (2165)	9510x2390	9610(+1090)x 2390	12010x2390	12010x2450 (2155)
The sizes of the trailer LxWxH, mm	11595x2550x 2685(1300)	11265x2600x 1275	10965x2550x 2930(1275)	11025x2450x 2390(1360)	11730x2510x 2830(1370)	11830(+1090)x 2500x2800(1365)	14285x2550x 2780(1365)	14265x2450x 2385(1355)
Platform area, m ²	21.5	22	-	22	22.7	23(25,6)	28.7	29.4
Standart tires	425/70-18	425/70-18	425/70-18	425/70-18	500/50-22,5	425/70-18	425/70-18	425/70-18
Maximum tires	500/50-22,5	500/50-22,5	500/50-22,5	500/50-22,5	550/45-22,5	500/50-22,5	500/50-22,5	500/50-22,5
Axles, pcs.	2	3	3	3	3	3	3	3

Specifications:

- air brake system (singlecircuit, dual-circuit), hydraulic, individual approach;
- steering axles ADR (Italy), BPW (Germany);

- Towing eye Ø 40 mm, 50 mm or 90 mm (Scharmueller - Austria);
- wheels - Pronar (Poland);
- winch (AL-KO Germany);
- broadening of platform to 3 m (optional)



PP-9/2



PP-10,7/3



PP-12/3



Winch and broadening of platform to 3 m



Rod conveyor



Belt conveyor



Spreader of mineral fertilizers for work on technological gauge



Sand spreader RP-3



system BRAVO 400 (ARAG)

Stainless steel plates Rauch Germany

FERTILIZER SPREADERS

The belt spreader of RMD mineral fertilizers operates from a hydraulic drive with an electronic system for regulating the application rates and is used for surface application of solid mineral fertilizers, scattering of lime and defecate, as well as the introduction of poultry manure.

The electronic system BRAVO 400 (ARAG) controls the autonomous hydraulic system of the trailer depending on the set rate of application of mineral fertilizers. It consists of a hydraulic pump (drive from the tractor PTO shaft), an oil tank, a hydraulic motor and a gearbox, which drives the conveyor.

	RP-3	RMD-6	RMD-8	RMD-12	RMD-16
Empty weight, kg	1 300	2 200	2 500	4 000	4 300
Technically permissible total mass, kg	5 800	8 200	10 500	16 000	20 000
Dimensions: length, mm	5 100	6 000	6 000	7 500	7 500
width, mm	1 950	2 400	2 400	3 000	3 000
height, mm	2 100	2 100	2 400	2 700	3 100
Volume, m³	3	6	8	12	16
Tires	11,5/80-15,3	550/60-22,5	550/60-22,5	650/65-30,5	650/65-30,5
Axles, pcs.	1	1	1	1	1
Working width, m	up to 4 m	up to 24 m	up to 24 m	up to 24 m	up to 24 m
Spreading efficiency, kg/ha	-	50 - 2 000	50 - 2 000	50 - 2 000	50 - 2 000
Recommended tractor power (hp)	60	80	80-90	120	150

Basic equipment RMD:

- application of granular fertilizers, defecate, gypsum, lime, dry chicken droppings;
- wide tires reduce soil compaction;
- spreading width up to 24 m.;
- application rate of 50-2000 kg / ha.;
- body capacity from 6 to 20 tons.;
- conveyor drive from wheels; brake drum; Tractor PTO via propeller shaft;
- hydraulic drawbar support;
- hydraulic plate drive Rauch Germany;
- air brake system;
- axles ADR Italy;
- trailer ring Scharmuller Austria;
- tractor power from 80 to 200 hp.

Additional equipment:

- stainless steel body
- awning system
- dosing computer



BNP-3 on the loading of the wagon parallel to the wagon



Loading wagons perpendicular to the wagon



Loading barges



Additional front wheels option for transporting grain in hopper of BNP machine

GROUND CHASER BIN BNP «KOVCHEG»

Characteristics	BNP-3	BNP-3/E	BNP-12				BNP-12/E (electric drive)			
Auger diameter, mm	500	500	400	500	400	500	400	500	400	500
Productivity, t/h	250	250	180	300	180	300	180	300	180	300
Height of unloading, m	5,5	5,5	4,3	5,5	4,3	5,5	4,3	5,5	4,3	5,5
Hopper volume, m ³	2,9	2,9	12	12	12	12	12	12	12	12
Hopper: length, mm	3 000	3 000	7 000	7 000	7 000	7 000	7 000	7 000	7 000	7 000
width, mm	2 125	2 125	2 500	2 500	2 500	2 500	2 500	2 500	2 500	2 500
height, mm	860	860	920	920	920	920	920	920	920	920
Unloading from a car	parallel to the wagon		perpendicular to the wagon				perpendicular to the wagon			
Driven from	tractor's cardan shaft (PTO)		Electric motor 37 kW + tractor's cardan shaft				Electric motor (30 kW + 3 kW for hydraulic machine) + tractor's cardan shaft			
Recommended tractor power (hp)	82	82	82	120	82	120	82	120	82	120

Basic equipment:

- three horizontal augers Ø 300 mm;
- vertical auger Ø 400, 500 mm;
- two dosing gate valve;
- hydraulic mechanism that transforming hopper from working to transport stance;
- tires 10,0/75 – 15,3 – 4pcs.;
- hydraulic board with rubber sealant;
- solid rolled spiral of auger (Italy);
- cardan shafts (Bondioli & Pavesi Italy);
- towing eye Ø 40, 50 mm;
- electric motor BNP-12/E:
- 30 kW + 3 kW for hydraulic machine (for auger diameter of 400 mm);
- 55 kW + 3 kW for hydraulic machine (for auger diameter of 500 mm);

Constructed for reloading:

- grain, corn, sunflower, rape flowers, mineral fertilizers



Loading of the wagon



Transport stance



Unloading of the wagon



MOBILE UNLOADER FOR TRAIN WAGON

Characteristics	RVM-180	RVM-180E (electric motor)
Diameter of unloading auger, mm	400	400
Productivity, t/h	180	180
Unloading height, mm	5 300	5 300
Dimensions, LxWxH, mm		
- transport position	7780x2500x3135	7780x2500x3135
- workplace	8575x7780x6590	8575x7780x6590
- receiving tray (hopper)	3000x2100x400	3000x2100x400
Driven by	tractor's cardan shaft (PTO)	Electric motor (30 kW + 3 kW for hydraulic machine) + from tractor's cardan shaft (PTO)
Tires	10/75 -15,3	10/75 -15,3
Recommended tractor power (hp)	80	80

Basic equipment:

- hydraulically adjustable peak of auger;
- driven by 380 V or tractor's cardan shaft (PTO);
- 2 electric motors with capacity 30 kW and 3 kW;
- mechanical drawbar support;
- horizontal augers 8 pcs. Ø 130 -3000 mm;
- feeding auger Ø 300 - 2 100 mm;
- towing eye, Ø 40, 50 mm



Sleeve fastening Ø 2,7 m.



Productivity 180 t/hour

GRAIN BAGGERS

	ZPM-180	ZPM-180P	ZPM(A)-180	ZPM-180pm	ZPM-360
Designed for	grain	grain, oilcake after brewing, bagasse	grain	grain	grain
Productivity, t/h	180	180	180	180	360
Bag diameter, mm	2 700	2 700	2 700	2 700	3 000
Empty weight, kg	1 350	1 200	1 950	1 990	1 800
Working sizes: length, mm	4 000	4 900	5 800	4 830	5 200
width, mm	3 360	3 200	4 250	5 330	2 600
height, mm	3 100	2 600	2 000	2 800	3 300
Sizes of hopper, m	1,5x2,5	1,6x3,1	1,7x2,8	1,5x3,0	1,5x2,3
Recommended tractor power (hp)	80	80	electric motor	100	100

Basic equipment:

- drive from tractor's cardan shaft (PTO) 540 rpm.;
- braking system drum type, separate on left and right wheel, drive is drive mechanical-screw with hydraulic compensator and manometer, wheels – 10,0/75-15,3;
- drawbar with low connection, towing eye Ø 50 mm;
- anchor for additional braking;
- mechanism for lifting and putting on bag.



Using of BNP-12 «Kovcheg»



ZPM (A) -180 with a lowered hopper and an electric motor. Loading from a car.



14

ZPM-180



ZPM-180P
(receiving hopper reduced)



ZPM(A)-180 (automotive)



ZPM-180pm



ZPM-360



Reloading grain in to grain carrier NRU-180



Unloading grain from the bag using the ZRM-180



Additional horizontal auger for corn



Autonomous oil station on ZRM-180.
To increase the flow of oil on the hydraulic motor.



GRAIN UNLOADER

	ZRM-180m	NRU-180
Designed for	Unpacking	Unpacking, work on granary
Productivity, t/h	180	180
Bag diameter, mm	2 700	1 100 – 3 000
Empty weight, kg	2 900	1 950
Working dimensions: length, mm	6 000	6 100
width, mm	6 500	2 100 - 4 200
Height of unloading, mm	4 300	4 200
Recommended tractor power (hp)	80	80



ZRM-180m with bag winding



NRU-180 without bag winding

Basic equipment:

- drive from tractor's cardan shaft (PTO) 540 rpm.;
- drawbar with low connection, towing eye Ø 50 mm;

- additional auger in ZRM-180, driven by hydraulic motor;
- ZRM-180mm -wheels 14/65-16, goes under the bag.



NEW

TOR-20 Capacity	up to 35 tons
Dimensions: - length, mm	8 770
- width, mm	4 450
Height with lowered lift, mm	2 885
Height with jack raised, mm	7 750
Container lifting angle	70 – 90°
Container size	20 feet



independently removes and installs the container directly from the container ship

CONTAINER LOADING TECHNOLOGY TOR-20

Efficient loading and unloading of 20-foot containers - TOR-20

- **Strength and power** - lifting capacity up to 35 t, the whole process is accompanied by 4 powerful hydraulic cylinders
- **Versatility** - lifting angle of the container up to 90°
- **Ease of use** - you can load the load up to 8 meters without much effort
- **Speed of work** - loading a 20-foot container in 15 minutes (together with BNP-12 Kovcheg)
- **Reliable power supply** - the edger works from the 380 Volt power network
- **Filling control** - weighing system is optionally mounted.



Container tipping process



Installation of RZS on the chassis of trucks



Stationary mortar unit RZS-20
with two independent compartments



Refueling of sprayer 5 minutes

MOBILE DISSOLVE-FILLING STATION

Preparation, transportation and filling plant protection products and potassium ammonium mixtures.

RZS (Mobile dissolve-filling station) composed with tank for clear water and section for preparation pesticides and potassium ammonium mixtures.

	RZS-3,3(2)	RZS-6,5(2)	RZS-11(3)	RZS-11(2)	RZS-16(2)	RZS-16(3)	RZS-20(3)	RZS-30(2)	RZS-30(3)
Quantity of bays, Pcs.	2	2	3	2	2	3	3	2	3
Metal thickness, mm	4	4	4	4	4	4	5	6	6
Usage	mother solution	mother solution / working solution	mother solution / working solution	working solution	working solution	working solution	working solution	working solution	working solution
Volume, m³	0,3+3	0,5+6	1+5+5	1+10	1+15	1+7,5+7,5	1+9,5+9,5	2+28	2+14+14
Diameter, mm	1 200	1 400	1600	1 600	1 900	1 900	1 900	2 300	2 300
Axles, pcs.	1	1	2	2	2	2	2	3	3
Tires	400/60-15,5	550/60-22,5	425/70-18	425/70-18	560/60 R22,5	560/60 R22,5	560/60 R22,5	560/60 R22,5	560/60 R22,5

Functions of mobile soluble refueling stations RZS:

- water injection into the compartment through the meter
- chemical injection through a chemical mixer
- agitation (movement) of the working solution
- pumping out working solution through the counter
- dissolving mineral fertilizers
- washing the compartment after downloading the working solution

The main characteristics of soluble refueling stations RZS:

- high chemical resistance stainless steel
- separate working and washing chambers
- chemical mixer 35 l, 100 l.
- electronic counter Arag
- motor pump HYPRO Ø2 "or HONDA Ø3"
- piston diaphragm pump Annovi Reverbery
- hydraulic driven centrifugal pump



VNC-26 with a cultivator

SLURRY TANKERS



	VNC-6	VNC-8	VNC-10/ VNC-10(KAM)	VNC-12	VNC-16/ VNC-16(KAM)	VNC-20/ VNC-20(KAM)	VNC-26	VNC-30	VNC-36
Volume, m³	6	8	10	12	15	20	26	30	36
Technically permissible total mass, kg	8 000	11 000	13 000 / 15 000	15 000	21 000 / 26 000	26 000 / 34 000	35 000	40 000	47 000
Size of tank:									
- diameter, mm	1 400	1 600	1 600	1 700	1 900	1 900	2 200	2 300	2 300
- length, mm	3 900	4 050	5 030	5 820	5 550	7 590	7 290	7 700	9 200
Trailer: length	5 775	6 060	7 160	7 525	7 750	9 500 / 9 750	9 425	9 690	11 480
- width	2 435	2 660	2 455	2 535	2 690	2 600 / 2 690	2 800	2 750	2 955
- height (mm)	2 645	2 960	2 550	2 830	3 400	3 360 / 3 325	3 480	3 400	3 770
Axes, pcs.	1	1	2	2	2	2/3	3	3	4
Suspension	Springless	Springless	spring tandem	spring tandem	spring tandem	Bogie / Springs	Hydraulic / Springs	Hydraulic	Hydraulic
Tires	425/70-18	550/60 -22,5	425/70-18	425/70-18	550/60-22,5 560/60 R22,5	560/60 R22,5 650/55 R26,5	560/60 R22,5 650/55 R26,5	560/60 R22,5 650/55 R26,5	560/60 R22,5
Tractor power (hp)	82	90-110	120-150	120-150	200-250	250-300	250-300	300	350



Hosepipes (sprearer)



Hydro gun for irrigation and surface fertilization, fire fighting



Ejector dispenser on the snow



VNC-20 with a disk cultivator



Tank with a turning circle



Fire barrel PC-6. V - 6 m³

The introduction of fluid gun up to a distance of 30 m
Complete with a pump (works from a tractor) or a
motor pump (works stationary)



Hot dip galvanizing. Galvanizing layer 100-300 microns



Filling tank for diesel fuel



MPK-95 mobile lagoon

MOBILE CONTAINER MPK-95

Mobile container 95 m³ is an ideal solution for storing liquid organic fertilizers. The metal container is equipped with a folding drawbar, which is aggregated with the tractor. Inside, there is an agitator, which works from the hydraulics of the tractor. It is possible to move from place to place in an empty form (without filling). The perimeter of the container is reinforced with metal beams. In the complete set, a signal lamp informs about the filling of the tank.

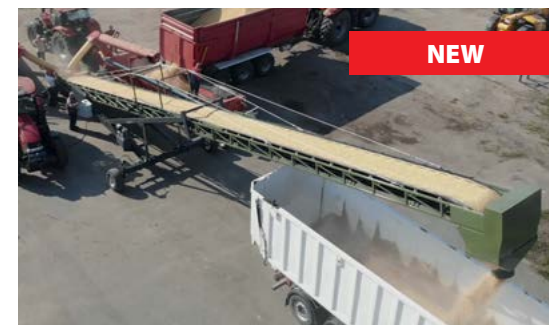




SN-350/22 at a grain loading of 3 t/m²



Turning of wheels



Belt conveyor ST-22



The V-shaped chevron belt 1,200 mm does not damage the seeds

BELT LOADERS

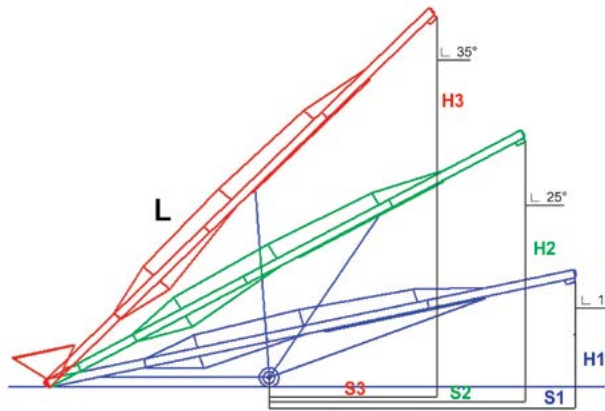
	SN-350/22	SN-350/25	ST-17	ST-22
Diameter, mm	350	350	-	-
Length of loader - L, m	22	25	17	22
Productivity, t/h.	up to 200	up to 200	do 300	do 300
Height of unloading – H, m	min 4,5 max 10,3	min 5,2 max 11,9	min 3,4 max 7,0	min 4,0 max 9,0
Width of belt, mm	500	500	1 200	1 250
Tires turnable by hydraulic (to 90°)	14.0/65-16	14.0/65-16	14.0/65 R16	14.0/65 R16 10.0/75-15,3
Width of wheel base - B, m	4.45	4.45	4.0	4.2
Adoptive bunker, m	1.5x1.5 (3,0 x 1,5)	1.5x1.5 (3,0 x 1,5)	2.0x3.0	1.5x1.2
Driven by	22 kW electric motor	22/37 kW electric motor	11 kW electric motor	11 kW electric motor

Basic equipment:

- towing connections for transporting, working;
- hydraulic mechanism for lifting the auger;
- type of belt - chevron.



Stationary auger SSH-250/12,5 with adoptive bunker



Stationary auger SSH-200/15 takes from piles

STATIONARY AUGERS

Diameter, mm	Length, L	incline angle									Power of electric motor, kW	Auger lifting mechanism	Front tires
		└ 15°			└ 25°			└ 35°					
		H1, m	S1, m	Productivity, t/h	H2, m	S2, m	Productivity, t/h	H3, m	S3, m	Productivity, t/h			
200	7,5	2,1	2,6	40	3,3	2,2	35	4,2	1,6	30	5,5	Winch	175-70 R13
	10	2,7	2,4		4,3	1,8		5,8	1,0		7,5	Hydraulic hand jack rod 40mmh	175-70 R13
	12,5	3,3	4,8		5,4	4,1		7,3	3,0		7,5	Hydraulic hand jack rod 40mm	175-70 R13
	15	5,7	6,1		7,2	5,4		8,2	4,8		11	Hydraulic hand jack rod 35mm	10,0/75-15.3
	18,5	7,1	8,3		8,9	7,5		10,2	6,7		15	Hydraulic station	10,0/75-15.3
	24	6,2	13,6		12	11,2		16,9	7,4		22	Hydraulic station	10,0/75-15.3
250	7,5	2,2	2,5	60	3,2	2,1	50	4,3	1,5	40	7,5	Winch	175-70 R13
	10	2,7	2,3		4,3	1,8		5,8	0,9		11	Hydraulic hand jack rod 40mm	175-70 R13
	12,5	3,3	4,7		5,4	4,0		7,3	2,0		15	Hydraulic hand jack rod 40mm	175-70 R13
	15	5,7	6,0		7,2	5,3		8,2	4,7		18	Hydraulic hand jack rod 35mm	10,0/75-15.3
	18,5	7,0	8,3		9,0	7,3		10,4	6,5		22	Hydraulic station	10,0/75-15.3
	24	6,2	13,6		12	11,2		16,9	7,4		25	Hydraulic station	10,0/75-15.3

Basic equipment:

- auger consist of several sections, the length of each - 2500 (6000) mm;
- screw of transporter if solidmade 4/2 mm;

Additional options:

- winch for adjusting incline angle;
- adoptive bunker 1000x1000.

Additional options:

- auger pipe galvanization;
- adoptive bunker 2700x1200;
- the mechanism of rotation of the support wheels for lateral movement of the auger (for augers 18.5-24 m long).



Grain picking from the piles



Additional option: rear wheels turning mechanism



adoptive bunker



Mounting augers to tractor trailers



Self-loading auger SZSH-250



Hydraulically-folding auger GRSH-300/4,5



Mounted side auger NBSH-250/4

LOADING AUGERS

Designed for loading seeders and mineral fertilizer spreaders

	RSH-200/4,5	RSH-220/4,5 bob	RSH-250/4,5	GRSH-300/4,5	GRSH-350/4,5	NBSH-250/4
Diameter, mm	200	220	250	300	350	250
Length, m	4,5	4,5	4,5	4,5	4,5	4
Spiral thickness:						
- on base close to shaft, mm	4,5	5	4,5	5	8	4
- on the edge, mm	2	2,5	2,5	3	5	2,5
Spiral diameter, mm	180	180	230	280	330	230
Thickness of auger pipe, mm	2	2	2	3	3	2
Volume of hydraulic moto, cm ³	90	90	125	200	250	100
Folding mechanism	mechanical	mechanical	mechanical	hydraulically	hydraulically	hydraulically
Productivity, t/h	12-36	12-36	30-60	90	120	30-60

Basic equipment:

- solid euro tube (Italy);
- powder paint;
- hydraulic motor g-rotor type by license of Danfos (Italy);
- PVC sleeve (IPL - Italy);
- auger spiral solid rolled with special steel (Italy);
- winch (AL-KO Germany) RSH-200(250) / hydraulic cylinders NBSH.



Aluminum Tipper Semi Trailer.
Model 50, 55, 90 m³



Dolly trailers PSP-20



Low profile platform NP-7 with steering wheels



Trailer for transporting special equipment up to 9 tons.



High unloading trailer PS-22

SPECIAL TRAILERS

Dolly trailers PSP-20 are designed for transportation of automobile semi-trailers by tractor on a wet field.

Characteristics	PSP-20
Length, mm	4 900
Width, mm	2 450
Height, mm	1 150
Seat height (adjustable by two hydraulic cylinders), mm	1250 - 1400
Saddle load, kg	20 000
Axles, pcs.	2
Tires	425/65 R22,5

Technical characteristics of PSP trailer trailers:

- frame: steel, coated with anti-corrosion paint
- platform: the all-welded metal structure is equipped with a special saddle for transporting an automobile semi-trailer;
- raising / lowering the platform saddle hydraulic;
- drawbar: welded to the frame rigidly;
- connection ring 40 mm, 50 mm, 90 mm;
- electrical system: 12 (24) V has a 7 pole outlet and taillights;
- hydraulic cylinders for regulation of coupling height
- the trailer is equipped with a pneumatic braking system.

Additional equipment:

- autonomous hydraulic machine with oil tank, drive from tractor PTO.

The PS-22 trailer is unloaded to a height of up to 4.0 m. Designed for harvesting corn in cobs, etc. agricultural crops. Thanks to the sliding drawbar, it is aggregated with tractors and combines.

Characteristics	PS-22
Volume, m ³	22
Empty weight, kg	9500 - 9940
Technically permissible total mass, kg	20 440
Trailer: length, mm	8 660 – 9 860
width, mm	3 465
height, mm	3 315
Axles, pcs.	1
Tires	650/65 R30.5

Technical characteristics of PS-22 trailer trailers:

- unloading speed up to 2 min;
- body roll angle 40°
- centralized system of lubrication of main nodes





Silage roller SLON-3,2

SILAGE EQUIPMENT

Silage roller - SLON tamper increases silage density (up to 30%). Result:

- increasing the capacity of silo pits;
- reducing the air content in the compacted mass;
- ensuring the long-term preservation and quality of the product.

Characteristics	SLON-2,8	SLON-3,2	SLON-4,0	SLON-4,4
Width, mm	2 750	3 250	4 040	4 385
Height, mm	1 645	1 645	1 645	1 645
Length, mm	1 745	1 745	1 745	1 745
Empty weight, kg	3 360	3 850	4 360	5 800
Volume of the box, m ³	1,13	1,13	1,3	1,3
Number of wheels, pcs	9	11	13	15
Wheel diameter, mm	900	900	900	900
Wheel width, mm	130	130	130	130
Tractor power, h.p.	150	200	250	od 250

A simple and effective solution for storing hay and silage in a silage tank.

The RS-2400 silage grader evens out the green mass even in thin layers in the pit/silage ditch (20-30 cm each).

The 2.4m wide deck easily handles the spreading of a large amount of silage in the shortest possible time.

Characteristics	RS-2400
Roll diameter, mm.	900
Shaft diameter with blades, mm.	1 230
Working width, mm	2 410
Tractor power, h.p.	170
Drive	Hydraulic motor or tractor PTO



Silage density increases up to 30%



Box for sand, crushed stone



Silo leveler RS-2400



Rotate 20 degrees right/left



- profile pipe 200x200 ensures rigidity of the system throughout the trailer;
- the balancing front suspension protects the recipe from torsion on a rough surface;
- the variable angle of inclination allows you to adapt to each type of reaper in a matter of minutes;
- additional locking system with 2 straps;
- the design is designed to carry equipment on highways, dirt roads and field;
- retractable rear oversized 1300mm.



Adapt to all header manufacturer.



Header trailer features:

- PG series - ADR axles, without brakes. The rear axle is movable;
- PG-p series - ADR axles, without brakes. The rear tandem is mobile;
- PGA series - ADR axles, without brakes. The front and rear axles are thrusters, not movable.

[illegible]



Mulcher cutter



Household trailer - office



Vacuum cleaner for leaves



Branch grab with 2 upper tusks

AUXILIARY EQUIPMENT

Equipment for road construction, municipal construction, forestry, as well as accessories for tractors of all manufacturers.

The milling machine combines the functions of a mulcher and a rotor and provides grinding of wood up to 50 cm and milling of soil, roots to a depth of 7 cm.

Working width 2.5 m. Tractor 350 - 400 hp.



26 Branch chopper RM-900 powered by tractor PTO or 55 kW electric drive



Tractor jack (co-driver) wheels



Trolley for moving tractor wheels



Weight on the three-point linkage of the tractor



Snow blade for telehandler VS-2400



Snow blade VS-4000 for John Deere VS-4000



Blade ABC-2700 to auto



Equipment for mini tractors



Road brush to tractor with 80 Horse power



Buckets for silo L

Nº	Width, mm	Volume, m ³
1	1 400	1,8
2	1 800	2,2

Buckets for silo XL, XXL

Nº	Model	Width, mm	Volume, m ³
1	XL	1 800	1,9
2		2 200	2,2
3		2 200	2,4
4		2 400	2,6
5	XXL	2 800	3,0
6		1 800	1,6
7		2 800	2,8
8		2 800	3,5

Buckets with cutting grip

Nº	Width, mm	Volume, m ³
1	1990	2.0

Buckets with fork grip

Nº	Width, mm	Volume, m ³
1	2 400	1,8



Grain buckets

Nº	Model	Width, mm	Volume, m ³
1	M	1 520	0,5
2		2 000	1,0
3		2 000	1,5
4		2 000	2,0
5	XL	2 500	2,5
6		2 500	3,0
7	XXL	2 500	3,5
8		2 500	4,0

Buckets for ground

Nº	Width, mm	Volume, m ³
1	2 290	1,5
2	2 420	2,4

Buckets for high unloading

Nº	Width, mm	Volume, m ³
1	2 000	3
2	3 000	6

Model	Tractor/ Horse power needed	Total width, mm	Working width, mm	Height, mm	Thickness of armored rubber, mm	Shovel thickness, mm	Empty weight, kg
VS-1800	mini tractor from 25 hp	1 800	1 480	600	20	3	90
VS-2000		2 000	1 800	600	20	3	110
VS-2100	front and telescopic loaders	2 100	1 970	1 050	30	4	310
VS-2400	80	2 400	2 255	800	30	4	170
VS-2700	120	2 700	2 540	1 050	30	4	350
VS-3000	150	3 000	2 820	1 050	30	5	450
VS-4000	170-200	4 000	3 760	1 120	30	6	660
VS-5000	from 200	5 000	4 680	1 120	30	6	750
AVS-2700	blades for trucks	2 700	2 540	890	30	4	360
AVS-3000		3 000	2 820	890	30	4	390
*AVS-4000		4 000	3 760	890	30	4	490
		(2 sections)					



Extension for a telescopic loader for hilling grain, silage, wood chips, snow



Blade ABC-4000 to a car with a side section (3 + 1 m)



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