





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**



**32 EXPORT
COUNTRIES**



**40.000 M²
PRODUCTION AREA**

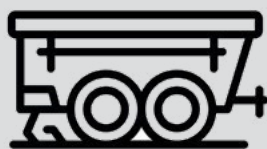


**CERTIFIED
COMPANY**

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**



**17.000+
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



	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:	1.8	3	3/6	3/6	6	6	6	6	6/12	12
- 540 rpm / - 1000 rpm	-	6	12	12	12	12	12	12	12/25	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



TZP-39 Atlant

PUSH OFF TRAILER "ATLANT"

Characteristics	TZP-22	TZP-27	TZP-35	TZP-39	TZP-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	1 950	1 950	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 reloader in car



Spreader of organic fertilizers



Reloading auger



Beetroot reloading mechanism



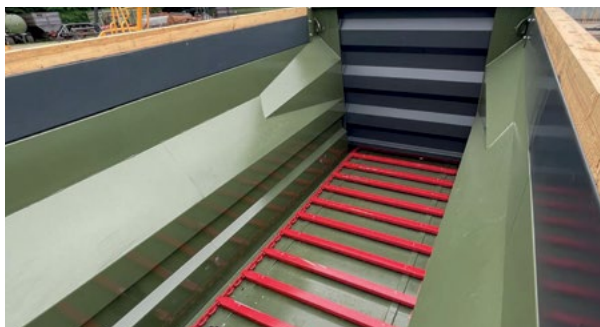
Sliding semi-trailer for trucks AZP-60 Atlant



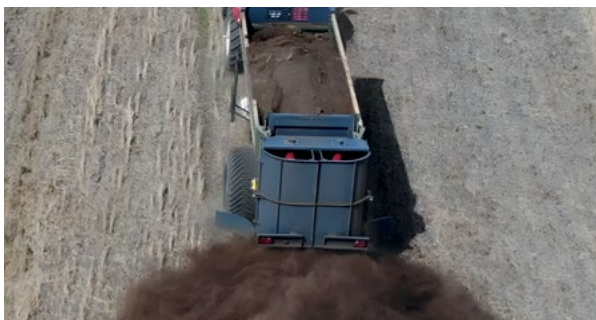
Hydraulic side opening h-400 mm



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.





Semi-trailer TSP-6t



Semi-trailer TSP-10t



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	1(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	4 050	4 450	4 530	5 140	5 140	4 930	5 600	6 500	8 000
width, mm	1 740	2 100	2190/2240	2190/2240	2175/2235	2225/2300	2270/2310	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	11,5/80-15,3	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	500/50-22,5	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



4TSP-32



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	1 650	2 100	3 200	4 200	5 600	6 500	8 000
Technically permissible total mass, kg	6 000	8 100	13 600	16 000	21 000	24 000	32 000
Axles, pcs.	2	2	2	2	2	3	4
Body: length, mm	4 050	4 050	4 970	4 430	5 400	6 380	8 550
width, mm	2 100	2 100	2 190 / 2240	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	10,0/75-15,3	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	500/50-22,5
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	12760	15000	15000
- width (depends on tires and bale)	2830 / 3000	2550 / 3000	2550 / 3000	3400 / 3600	2550 / 3000	3400 / 3600
- 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 1000 kg



Simultaneous lifting of 2 bales



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

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

The PP series platform trailers are a universal solution for transporting various cargoes in different sectors of the economy. Thanks to their reliable metal construction and flexibility of use, this equipment is in demand among farmers in different countries. Their main purpose is to transport square and round bales, as well as loads on pallets or in boxes. They can be aggregated with tractors from all manufacturers.

	PP-9/2	PP-9/3 powerful bottom	PP-12/3	PP-12/3 powerful bottom
Technically permissible total mass, kg	13 000	20 300	21 000	21 300
Empty weight, kg	4 000	5 300	5 000	5 300
Platform LxW, mm	9010x2390	9010x2450 (2165)	12010x2390	12010x2450 (2155)
The sizes of the trailer LxWxH, mm	11595x2550x2685(1300)	11025x2450x2390(1360)	14285x2550x2780(1365)	14265x2450x2385(1355)
Platform area, m ²	21.5	22	28.7	29.4
Standart tires	425/70-18	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
Axles, pcs.	2	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-12/3 loading 36 bales Ø 1.5 m.



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



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:

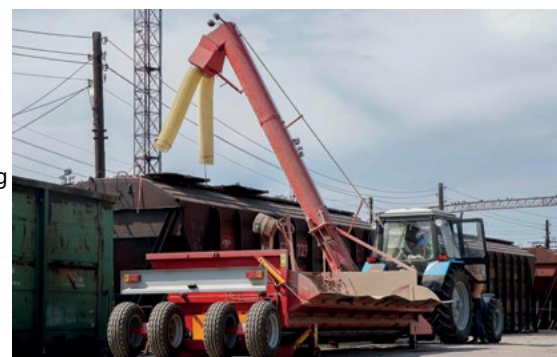
- stainless steel body
- awning system
- dosing computer



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



Loading wagons perpendicular to the wagon



Grain flow divider



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				tractor's cardan shaft (PTO)			
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



Working position



Unloading of the wagon



MOBILE UNLOADER FOR TRAIN WAGON

Characteristics	RVM-180	RVM-180E (electric motor)	RVM-100p
Diameter of unloading auger, mm	400	400	400
Productivity, t/h	180	180	100
Unloading height, mm	5 300	5 300	5 300
Dimensions, LxWxH, mm			
- transport position	7780x2500x3135	7780x2500x3135	7780x2500x3135
- workplace	8575x7780x6590	8575x7780x6590	8575x7780x6590
- receiving tray (hopper)	3000x2100x400	3000x2100x400	3000x2100x285
Driven by	tractor's cardan shaft (PTO)	Electric motor (30 kW + 3 kW for hydraulic machine) + from 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	10/75 -15,3
Recommended tractor power (hp)	80	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	4 950	5 800	4 830	5 200
width, mm	3 400	3 250	4 250	5 330	2 600
height, mm	3 100	2 800	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.



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ZPM-180



ZPM-180P
(receiving hopper reduced)



ZPM(A)-180 (automotive)



ZPM-180pm



ZPM-360



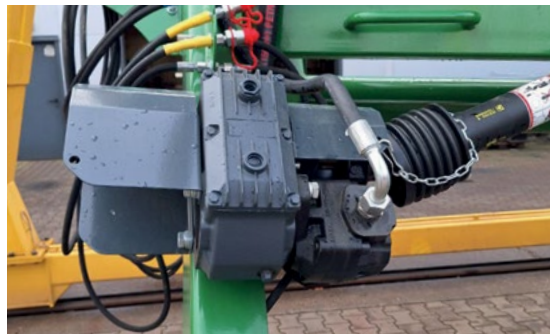
ZRM-180mk for unloading corn with high moisture content



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-180	ZRM-180mk
Designed for	Unpacking	Unpacking
Productivity, t/h	180	120
Bag diameter, mm	2 700	2 700
Empty weight, kg	2 900	3 300
Working dimensions: length, mm	6 000	6 700
width, mm	6 500	5 000
Height of unloading, mm	4 300	4 300
Recommended tractor power (hp)	80	100

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.



ZRM-180mk for wet corn



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	7 460
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-12,5	VNC-16/ VNC-16(KAM)	VNC-20/ VNC-20(KAM)	VNC-26	VNC-30	VNC-36
Volume, m³	6	8	10	12,5	16	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	5 950	7 590	7 290	7 700	9 200
Trailer: length	5 775	6 060	7 160	7 525	8 250	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 (spreader)



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)



Anti-corrosion coating with polymer paints,
hydraulic mixer



VNC-16 stainless steel tank



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.





PPB-50 TITAN

BEET TRANSFERER

Characteristics	PPB-45	PPB-50
Own weight (variation possible), kg*	16 800	17 000
Total weight (variation possible), kg*	48 800	49 000
Load capacity, kg	32 000	32 000
Body volume, m3	Up to 45	Up to 45
Maximum speed, km/h	25	25
Overall dimensions, Length, mm	12 000	11 000
Width, mm	3 000	3 500
Height (on wheels), mm	4 000	4 000
Conveyor dimensions (LxW), mm	3,700 * 2,000	3,700 * 2,000
Unloading height min-max (conveyor height from the ground), m	1.5 – 5.8	1,5 – 5,8
Recommended tractor power, hp	from 400	from 400

Its main purpose is to quickly and efficiently reload sugar beets from the combine and transport them to the edge of the field with subsequent reloading into a car or stacking them in a cart.

- The sophisticated design minimizes beet losses during transportation and reloading.
- The wide 2-meter slatted conveyor unfolds hydraulically (length 3.7 m) and has a high unloading speed - from 5 to 27 tons per minute (depending on the lifting height), thus the PPB-45 ensures efficient reloading of beets into a truck or quick formation of ridges.
- The configuration for right- or left-hand unloading varies on each loader, allowing it to be used with combines from all manufacturers.



Sugar beet reloader



ALPHA suspension and axles (ADR Italy)



Вивантаження буряків на висоту до 5,8 м.



Option - caterpillar track 0,9 x 3,8 m.



Aggregation of the PS-22 trailer with a combine harvester



Dolly trailers PSP-20



Low profile platform NP-7



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:

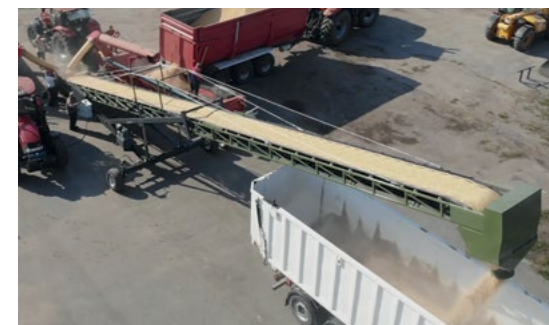
- unloading speed up to 2 min;
- body roll angle 40°
- centralized system of lubrication of main nodes



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-350/25	ST-17 prototype	ST-22
Diameter, mm	350	-	-
Length of loader - L, m	25	17	22
Productivity, t/h.	up to 200	do 300	do 300
Height of unloading – H, m	min 5,2 max 11,9	min 3,4 max 7,0	min 4,0 max 9,0
Width of belt, mm	500	1 200	1 250
Tires turnable by hydraulic (to 90°)	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	4.05	4.05
Adoptive bunker, m	1.5x1.5 (3,0 x 1,5)	2.0x3.0	1.5x1.2
Driven by	22/37 kW electric motor	18 kW drum motor	18 kW drum motor

Basic equipment:

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



Tractor jack (co-driver) wheels



Silage roller SLON



Mulcher cutter

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;

	PG-6	PG-9	PG-9p	PG-12	PG-12p
Trailer type	2-axle	2-axle	3-axle	2-axle	3-axle
Useful length, m	6.0 + 1.3	9.0 + 1.3	9.0 + 1.3	12.0 + 1.3	12.0 + 1.3
Length, m	10.5 (11.8)	13.5 (14.8)	13.5 (14.8)	16.5 (17.8)	16.5 (17.8)
Empty weight, kg	1 010	1 410	1 600	1 790	1 940
Technically permissible total mass, kg	4 010	4 410	7 600	5 790	7 940
Maximal transported speed, km/h	40	40	40	40	40
Fastener for header	2	4	4	6	6
Tires	10,0/75-15,3	10,0/75-15,3	10,0/75-15,3	10,0/75-15,3	10,0/75-15,3



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