



PRODUCTION CATALOGUE 2018





Manure spreader



Beetroot reloading mechanism

UNIVERSAL SLIDING SEMI-TRAILERS "ATLANT"

	TZP-22	TZP-27	TZP-39	TZP-49	AZP-60 with chassis	Body AZP-60 on container transporter	AZP-68 with chassis	Body AZP-68 on container transporter
Full weight, kg	22 500	27 000	39 830	49 000	35 000	-	35 000	-
Self weight, kg	6 000	8 200	9 830	12 000	12 150	7 150	13 200	8 200
Capacity, kg	16 500	18 800	30 000	37 000	22 850	22 850	21 800	21 800
Volume, m³	22	30	42	49	60	60	68	68
Body with board:								
- length, mm	5 650	7 100	9 600	11 100	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	2 000	2 000	2 400	2 400	2 400	2 400
Tires	560/60 R22,5 650/55 R26,5 710/50 R26,5	560/60 R22,5 650/55 R26,5 710/50 R26,5	560/60 R22,5 650/55 R26,5 710/50 R26,5	560/60 R22,5 650/55 R26,5	385/65 R22,5	-	385/65 R22,5	-
Oil needed, liters	≈ 49	≈ 65	≈ 80	66	≈ 130	≈ 130	≈ 150	≈ 150
Tractor power needed, h.p.	150-200	220-250	250-300	300-350	-	-	-	-
Axles, pcs.	2	2	3	4	3	-	3	-

Four trailers in one:

1. Common trailer for transporting.
2. Reloading trailer.
3. Manure spreader.
4. Beetroot reloading trailer.

Basic equipment:

- axles (ADR Italy), BPW (Germany);
- disks – Pronar (Poland);
- hydraulically moving front wall;
- towing eye Ø 40 mm, 50 mm; (Scharmuller – Austria);
- braking system pneumatic (one or two contoured), hydraulic;
- mechanical drawbar support.

Additional equipment:

- awning system;
- hydraulic suspension;
- stripes for additional volume
- 380 mm;
- changeable manure spreading mechanism (changeable back wall);
- changeable reloading auger (changeable back wall);
- Beetroot reloading mechanism (changeable back wall);



Reloading trailer



Sliding semi-trailer for trucks AZP-60 Atlant



Loading grain in to truck



Packing grain in to BigBags



Chaser bins



	PBN-9	PBN-16	PBN-20	PBN-20	PBN-30	PBN-30	PBN-40	PBN-40	PBN-50
Volume, m³	9	16	20	20	30	30	40	40	50
Carrying capacity, kg	7 200	11 250	15 050	14 700	21 300	22 500	30 750	32 550	38 000
Net weight, kg	2 630	4 750	4 950	5 300	6 900	7 200	9 250	9 700	12 000
Trailer: length, mm	5 010	7 100	7 500	7 500	8 500	8 500	10 450	10 450	11 520
width, mm	2 400 / 2 550	2 550	2 550 / 3 000	2 550	2 550 / 3 000	2 550 / 3 000	2 550 / 3 000	2 550 / 3 000	3 000
height, mm	3 240	3 380	3 850	3 850	3 850	3 920	3 900	3 900	4 000
Harvester unloading height, mm	2 840	2 900	3 400	3 400	3 480	3 550	3 480	3 550	3 550
Amount of axles, pcs	1	2	1	2	2	2	3	3	4
Wheel size (makes width larger)	650/55- R26,5	16,5/70-18 500/50-22,5	650/65- 30,5	550/60- 22,5	560/60 R 22,5	650/55 R 26,5	560/60 R 22,5	650/55 R 26,5	560/60 R 22,5
Required tractor power, hp	80	120	120-150	120-150	180-220	180-220	220-300	220-300	300-350
Productivity, t/min:									
- 540 rpm	1.8	3	3/6	3/6	6	6	6	6	6
- 1000 rpm	-	6	12	12	12	12	12	12	12
Auger diameter, mm	320	420	420/520	420/520	520	520	520	520	520

Basic equipment:

- braking system pneumatic (one or two contoured), hydraulic;
- axles (ADR Italy), BPW (Germany);
- reducer (Bondioli & Pavesi Italy);
- cardan shaft (Bondioli & Pavesi Italy);
- Auger spiral (Italy);
- Towing eye Ø 40 mm, 50 mm (Scharmuller - Austria);
- Disks – Pronar (Poland);
- Hydraulic drawbar support.

Additional equipment:

- weighting system with GPS broadcasting (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;



TRACTOR DUMPER SEMI-TRAILERS



	TSP-6t	TSP-10	TSP-10t	TSP-14	TSP-16	TSP-20	TSP-26	TSP-39
Sides of unloading	3	1	3	1	1	1	1	1
Self weight, kg	1 600	2 250	2 300	3 400	4 300	5 950	6 150	8 300
Capacity, kg	4 400	8 000	8 000	10 000	12 000	16 000	20 000	30 000
Quantity of axles	1	2	2	2	2	2	2	3
Body: length, mm	4 050	4 420	4 560	5 100	5 100	5 650	6 500	7 500
width, mm	2 100	2 240	2 200	2 300	2 300	2 300	2 300	2 300
height, mm	540	695	600	960	1 600	1 500	1 560	1 600
Volume, m³	4,6	6,9	6,0	10,7	17,2	19,5	23,3	27,6
Volume with stripes, mm	8,8	11,8	12,0 / 18,0	17,5	23	27,3	32,3	39
Tires	11,5/80-15,3	11,5/80-15,3	11,5/80-15,3	16,5/70-18 500/50-22,5	16,5/70-18 500/50-22,5	550/60-22,5	560/60 R 22,5	560/60 R 22,5
Power of tractor needed, H.P.	60	82	82	100-110	120	120-150	220-250	250-300

- braking system pneumatic (one or two contoured), hydraulic;
- axles (ADR Italy), BPW (Germany);
- 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;
- hydraulic suspension for TSP-39;
- auger for loading seeders.



Semi-trailer TSP-6t



Semi-trailer TSP-10t



Semi-trailer TSP-16



Semi-trailer TSP-39



Trailer 2TSP-8



Coupling - 2TSP-14 + 2TSP-14



Back wall adopted for reloading auger



Conical body prevents jam of green mass and fertilizers



TRACTOR DUMPER TRAILERS



	2TSP-8	2TSP-14	2TSP-21	3TSP-24	3TSP-30
Sides of unloading	3	3	3	3	3
Self weight, kg	2 100	3 600	5 500	6 200	7 500
Capacity, kg	6 000	10 000	15 500	17 800	24 000
Axles, pcs.	2	2	2	3	3
Body: length, mm	4 050	4 950	5 400	6 430	7 800
width, mm	2 100	2 170	2 450	2 450	2 450
height, mm	540	550	1 600	1 600	1 600
Volume, m³	4,6	6,2	21,0	24,0	30,0
Volume with stripes, mm	8,8	13,6	-	-	-
Tires	11,5/80-15,3	500/50-22,5	385/65-22,5	385/65-22,5	385/65-22,5
Tractor power needed h.p.	80	100-110	120	from 130	from 200

- braking system pneumatic (one or two contoured), hydraulic;
- axles (ADR Italy), BPW (Germany);
- 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 semi-trailer PT-24

SELF-LOADING BALE SEMI-TRAILERS

Self-loading bale semi-trailer	PT-12	PT-18	PT-24(E)	PT-24(R)	PT-30(E)	PT-30(R)
Quantity of bales pcs.	12	18	24	24	30	30
Diameter/size of bale, m	1.2	1.2 - 1.5	1.2 - 1.5	1.5 - 1.8	1.2 - 1.5	1.5 - 1.8
Capacity ,kg						
- grab	200	400	1000	1000	1000	1000
- platform (depends on tires)	4 000	6 000	10 000 / 15 000	10 000 / 20 000	10 000 / 15 000	10 000 / 20 000
Weight, kg						
- self (depends on tires)	2 100	2 500	5 700	6 100	6 200	6 700
- full	6 100	8 500	15 700 / 20 700	16 100 / 26 100	16 200 / 21 200	16 700 / 26 700
Dimensions, mm						
- length	9670	10140	12000	12000	15000	15000
- width (depends on tires and bale)	2550	2550 / 3000	2550 / 3000	3400 / 3700	2550 / 3000	3300 / 3700
- height (depends on tires and bale)	3430	3920	3800 / 4000	4000 / 4600	3800 / 4000	4000 / 4600
Axles, pcs.	1	1	2	2	2	2
Tires size	355/65-16 400/60-15,5	16,5/70-18 500/50-17	16,5/70-18 600/50 R22,5	16,5/70-18 600/50 R22,5	16,5/70-18 600/50 R22,5	16,5/70-18 600/50 R22,5
Tractor power, h.p.	50	80	120	120-150	150	150-200

- braking system pneumatic (one or two contoured), hydraulic;
- axles ADR (Italy);
- disks Pronar (Poland);
- hydraulic motor WR-160 (Danfos license);
- mechanical drawbar support;
- removable towing eye Ø 90 mm (PT-24, PT-30) and Ø 50 mm (PT-12, PT-18);
- front wall moves toward with the help of hydraulic motor and chain – makes unloading of bales automatically;
- hydraulic grip for loading the bales.



Platform-trailer PP-12/3



Unloading of self-loading bale semi-trailers PT

Platform-trailers	PP-9/2	PP-12/3
Full weight, kg	13 000	21 000
Self weight, kg	4 000	5 000
capacity, kg	9 000	16 000
Platform size		
length, mm	9 000	12 000
height from ground	1 300	1 300
width, mm	2 450	2 450
Tires	16,5/70-18 500/50-17	16,5/70-18

Quantity of axles, pcs. 2 3

Basic equipment of platform-trailers:

- braking system pneumatic (one or two contoured), hydraulic;
- turntable axle, axles ADR (Italy);
- Towing eye Ø 40 mm, 50 mm (Scharmuller-Austria);
- disks - Pronar (Poland);
- winch (AL-KO - Germany).

Additional options: extending platform up to 3 m.



Rod conveyor



Belt conveyor



MINERAL SPREADER

	RMD-6	RMD-8	RMD-12	RMD-16	RMD-20
Weight: full, kg	8 000	10 000	16 000	20 000	26 000
self, kg	2 000	2 100	4 000	4 300	6 000
Capacity, kg	6 000	8 000	12 000	16 000	20 000
Dimensions: length, mm	5 500	5 500	7 500	7 500	8 800
width, mm	2 530	2 530	2 550	3 000	3 000
height, mm	2 100	2 400	2 600	2 900	3 000
Volume, m³	6	8	12	16	20
Tires	550/60-22,5	550/60-22,5	16,5/70-18 / 750/70 R 26	750/70 R 26	560/60 R 22,5
Quantity of axles, pcs.	1	1	2 / 1	1	2
Working width, m	8 - 24	8 - 24	8 - 24	24 - 36	24 - 36
Spreading efficiency, kg/ha	50 - 4 000	50 - 4 000	50 - 4 000	50 - 4 000	50 - 4 000
Power of tractor needed, H.P.	80	80-90	120	150	200

Basic equipment:

- body with black iron;
- braking system pneumatic (one or two contoured), hydraulic;
- axles ADR (Italy), BPW (Germany);
- disks Pronar (Poland);
- hydraulic motor WR-100 (Danfos license);
- towing eye Ø 40, 50 mm (Scharmüller - Austria);
- reducer (Bondioli&Pavesi Italy);
- stainless spreading plates (Rauch Germany);
- conveyor driven from wheels;
- spreading plates driven by hydraulic.

Additional equipment:

- Body with stainless steel;
- conveyor driven by tractor's cardan shaft (PTO);
- conveyor driven by wheel drum;
- awning system;
- system of accurate insertion (Dinamica Generale Italy);
- GPS navigation;
- mounting changeable body of reloading trailer, tank, dumper trailer on chassis of RMD.



Loading hopper cars and barges



Loading grain carrier



Loading mineral spreader



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

GROUND MOBILE HOPPER BNP-12 «KOVCHEG»

Characteristics	BNP-12		BNP-12/E (electric drive)	
Auger diameter, mm	400	500	400	500
Productivity, t/h	180	300	180	300
Height of unloading, mm	4 300	5 500	4 300	5 500
Hopper volume, m ³	12	12	12	12
Hopper: length, mm	7 000	7 000	7 000	7 000
width, mm	2 500	2 500	2 500	2 500
height, mm	920	920	920	920
Driven from	tractor's cardan shaft (PTO)	tractor's cardan shaft (PTO)	Electric motor (30 kW + 3 kW for hydraulic machine) + tractor's cardan shaft	Electric motor (55 kW + 3 kW for hydraulic machine) + tractor's cardan shaft
Power of tractor needed, H.P.	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 hopper cars



Transport stance



Unloading hopper cars



LOADER / UNLOADER HOPPER CAR

Characteristics	RVM-180	RVM-180E (electric motor)
Dimensions LxWxH, mm	3000x2100x400	3000x2100x400
Diameter of unloading auger, mm	400	400
Unloading height, m	4,6 / 5,3	4,6 / 5,3
Driven by	tractor's cardan shaft (PTO)	Electric motor (30 kW + 3 kW for hydraulic machine) + from tractor's cardan shaft (PTO)
Power of tractor needed, H.P.	80	80
Tires	10/75 -15,3	10/75 -15,3
Productivity, t/h.	180	180

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;
- autonomous hydraulic station for changing machine from working to transport stance



Mounted slurry distributor



Ejection distributor

TANKS FOR LIQUID ORGANIC FERTILISERS, POTASSIUM AMMONIA MIXTURE AND WATER



	VNC-6	VNC-8	VNC-10	VNC-12	VNC-16	VNC-20	VNC-26	VNC-30	VNC-36
Volume, m³	6	8	10	12	16	20	26	30	36
Full weight, kg	8 000	11 000	14 000	15 000	21 000	26 000	36 000	39 000	52 000
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
Dimensional: - Length, mm	5 500	5 900	6 800	7 600	7 500	9 500	9 400	9 400	10 900
- width, mm	2 500	2 800	2 700	2 800	3 200	3 360	3 900	3 940	3 900
- height, mm	2 435	2 660	2 535	2 535	2 660	2 600	2 653	2 855	2 855
Metal thickness, mm	4	5	5	5	6	6	8	8	8
Quantity of axles pcs.	1	1	1/2	2	2	2/3	3	3	4
Suspension	Springs	Springs	Springs	Springs	Springs	Bogie	Hydraulic / Springs	Hydraulic	Hydraulic
Tires	16,5/70-18 500/50-17	550/60 -22,5	560/60 R 22,5 16,5/70-18 500/50-17	16,5/70-18 500/50-17	550/60 -22,5	560/60 R 22,5 650/55 R 26,5	560/60 R 22,5 650/55 R 26,5	650/55 R 26,5	560/60 R 22,5
Tractor power, h.p.	82	90-110	120	120-150	150-180	200-250	250-300	300	350

- braking system pneumatic (one or two contoured), hydraulic
- axles ADR (Italy), BPW (Germany);
- disks - Pronar (Poland);
- cardan shaft Bondioli & Pavesi (Italy);
- hydraulic drawbar support;
- towing eye Ø 40 mm, 50 mm Scharmuller (Austira)
- Mud guards Domar (Italy);

Additional equipment:

- barrel galvanizing or make it from stainless steel;
- mechanical mixer with hydraulic drive;
- hydraulic opened upper hatch;
- cultivator for injection of liquid organic fertilisers and potassium ammonium mixtures;
- mounted slurry injector for injection;
- hydraulic gun for injection;
- hydraulic manipulator of PVC sleeve for pumping;
- electric shield for connecting 5 pairs of hydraulic outs;
- hydraulic suspension.
- centrifugal pump, vacuum pump, engine-driven pump.



Filling sprayer in field for 5 minutes



Preparation of solution under the supervision of a specialist - prevents stealing of solution



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-12(2)	RZS-16(2)	RZS-16(3)	RZS-20(3)	RZS-30(3)
Quantity of bays, Pcs.	2	2	3	2	2	3	3	3
Metal thickness, mm	4	4	4	5	4	4	5	6
Usage	mother solution	mother solution / working solution	mother 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+11	1+15	1+7,5+7,5	2+9.5+9.5	2+14+14
Diameter, mm	1 200	1 400	1600	1 900	1 900	1 900	1 900	2 300
Quantity of axles	1	1	2	2	2	2	2	3
Tires	400/60-15,5	550/60-22,5	16,5/70-18 500/50-22,5	550/60-22,5	560/60 R 22,5	560/60 R 22,5	560/60 R 22,5	560/60 R 22,5

Basic equipment:

- stainless steel with high chemical resistance that don't react with solution;
- braking system - pneumatic (one, two contoured), hydraulic;
- separate working and washing chambers;
- axles ADR (Italy), BPW (Germany);

- disks Pronar (Poland);
- pumps: engine-driven pump Hypro, roller pump (hydraulic drive), membrane-piston pump driven from tractor's cardan shaft (PTO);
- hydraulic drawbar support;
- towing eye 40, 50 mm Scharmüller (Austria);
- mud guards Domar (Italy).



Belt loaders SN-250/10

BELT LOADERS

	SN-250/8	SN-250/10	SN-350/22	SN-350/32
Diameter, mm	250	250	350	350
Length of loader - L, m	8	10	22	32
Productivity, t/h.	100	100	180	180
Height of unloading – H, m	3,5	4,5	12,0	16,0
Width of belt, mm	420	420	500	500
Wheels turnable by hydraulic (to 90°)	10/75-15.3	10/75-15.3	14.0/65-16	14.0/65-16
Width of wheel base - B, m	2.5	2.5	4.85	6.0
Adoptive bunker, m	2.0x1.5	2.0x1.5	1.5x1.5	1.5x1.5
Driven by	Tractor's cardan shaft (PTO)	Electric drive	Electric drive	Electric drive

Basic equipment:

- Cardan shaft (for SN 250/8,5);
- towing connections for transporting;
- hydraulic mechanism for lifting the auger;
- type of belt - chevron.



Belt loader SN-350/32



Turning of wheels



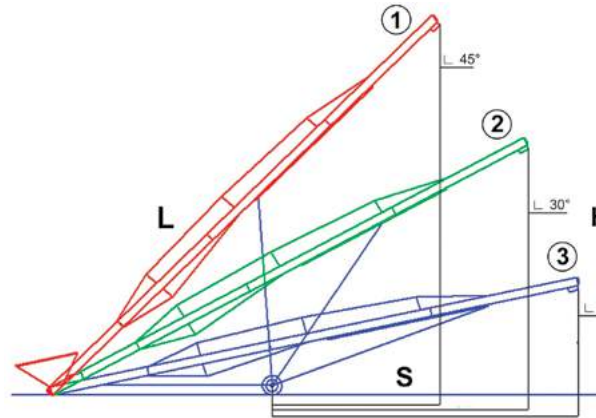
Hydraulic lifting



Chevron belt



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



Stationary auger
SSH-200/18,5

STATIONARY AUGERS

Diameter, mm	Length, L	incline angle									Power of electric motor, kW	Auger lifting mechanism	Front wheels
		└ 15°			└ 30°			└ 45°					
		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	4,3	75	3,7	3,5	60	5,3	2,3	45	5,5	Winch	175-65 R13
	10	2,6	5,7		5	4,7		7,1	3,1		7,5	Winch	175-65 R14
	12,5	3,3	7,1		6,3	5,8		8,8	3,9		7,5	Hydraulic hand jack rod 40mm	175-65 R14
	15	3,9	8,5		7,5	7		10,6	4,6		11	Hydraulic hand jack rod 40mm	10,0-75-15.3
	18,5	4,8	10,4		9,2	8,6		13,1	5,7		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	4,3	110	3,7	3,5	90	5,3	2,3	70	7,5	Winch	175-65 R14
	10	2,6	5,7		5	4,7		7,1	3,1		11	Hydraulic hand jack rod 40mm	175-65 R14
	12,5	3,3	7,1		6,3	5,8		8,8	3,9		15	Hydraulic hand jack rod 40mm	175-65 R14
	15	3,9	8,5		7,5	7		10,6	4,6		18	Hydraulic hand jack rod 35mm	10,0-75-15.3
	18,5	4,8	10,4		9,2	8,6		13,1	5,7		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;

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

Addition options:

- Adoptive bunker 2700x1200



Turning wheels



Grain picking from the heap



Folding auger RSH-250/4,5

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	NBSH-250/4
Diameter, mm	200	220	250	300	250
Length, m	4,5	4,5	4,5	4,5	4
Spiral thickness:					
-on base close to shaft, mm	4,5	5	4,5	5	4
-on the edge, mm	2	2,5	2,5	3	2,5
Spiral diameter, mm	180	180	230	280	230
Thickness of auger pipe, mm	2	2	2	3	2
Volume of hydraulic moto, cm³	70	70	90	160	90
Folding mechanism	mechanical	mechanical	mechanical / hydraulically	hydraulically	hydraulically
Productivity, t/h	12-36	12-36	30-60	80	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.

With help of special fastening auger mounted to the board of truck and used for loading grain; mineral fertilizers; bunkers with mixed feeds.



Folding auger RSH-220/4,5 with etchant



Mounted side auger NBSH-250/4



Hydraulically-folding auger GRSH-300/4,5

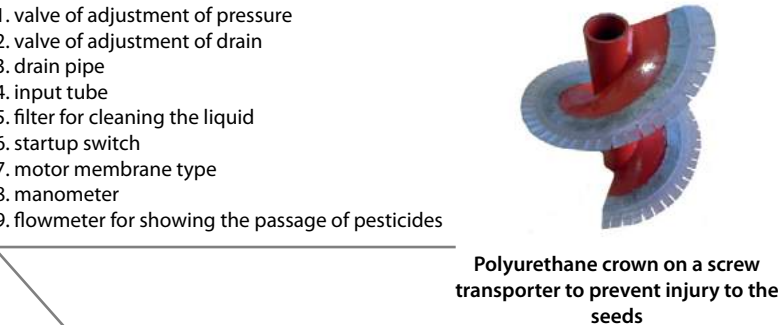


Self-loading auger SZSH-250

SCHEME OF WORK OF ETCHANT



1. valve of adjustment of pressure
2. valve of adjustment of drain
3. drain pipe
4. input tube
5. filter for cleaning the liquid
6. startup switch
7. motor membrane type
8. manometer
9. flowmeter for showing the passage of pesticides

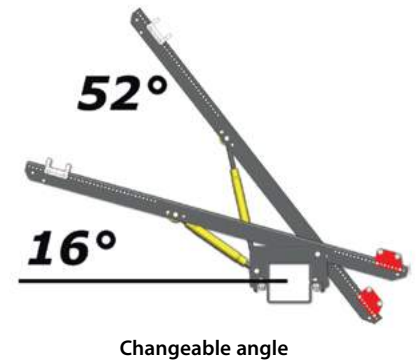


- Work of etchant:**
- It is needed to set productivity of auger transporter with regulator of rotation (from 100 to 300 kg/t);
 - Setting the pressure with the help of regulator with help of manometer from 1 to 3 BAR;
 - With help of *допомогою* measuring glass checking quantity of etchanted mixture that is pumped throught the nozzle for 1 min. While it needed in-crease or decrease the pressure.

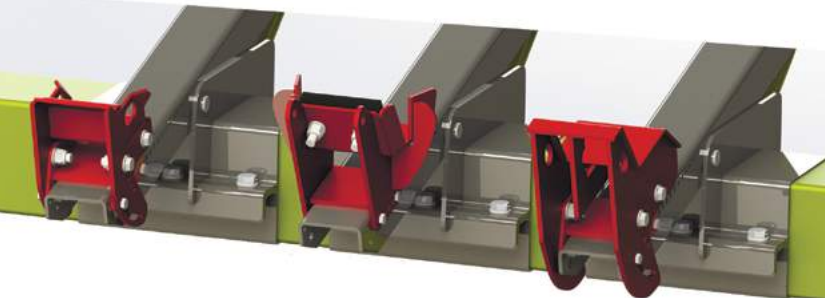


TRAILERS FOR TRANSPORTING THE HEADERS

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.



	PG-6	PG-9
Type of trailer	2 axles	2 axles
Width of gripping of transported header, m	to 6,15	to 10,0
Dimension, mm	10 300	11 800
Self weight, kg	1 500	1 700
Full weight, kg	4 500	4 700
Tires	10.0/75-15.3	10.0/75-15.3
Maximal transported speed, km/h	25	25





Length of bag 60 m with capacity 200 t. of grain



Productivity 350 t./hour

GRAIN PACKING MACHINES

GRAIN PACKING MACHINES	ZPM-180	ZPM-180P
Designed for	grain	grain, oilcake after brewing, bagasse
Productivity, t/h	350	350
Bag diameter, mm	2 700	2 700
Self weight, kg	1 300	1 600
Working sizes: length, mm	4 350	4 780
width, mm	3 360	3 200
height, mm	3 100	2 600
Sizes of hopper, m	1,5x2,5	1,6x3,1
Power of tractor needed, H.P.	80	80



ZPM-180



ZPM-180P
(Low hopper)

Basic equipment:

- drive from tractor's cardan shaft (PTO) 540 rpm.;
- braking system drum type, separate on left and right wheel, drive is привід 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»



Packing grain in to the bag with ZPM-180P



Reloading grain in to grain carrier



Grain packing machine in work



Grain unpacking machine in work



Additional horizontal auger for corn



MACHINES FOR UNPACKING THE GRAIN

GRAIN UNPACKING MACHINES	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
Self 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
Power of tractor needed, H.P.	80	80

Basic equipment:

- drive from tractor's cardan shaft (PTO) 540 rpm.;
- drawbar with low connection, towing eye Ø 50 mm;
- working width of NRU-180 adjusting mechanically to 4,6 m;
- additional auger in ZRM-180, driven by hydraulic motor;
- wheels of NRU-180 - 10,0/75-15,3;
- ZRM-180mm -wheels 14/65-16, goes under the bag.



ZRM-180m



NRU-180



Bucket with adaptation to telehandler Merlo

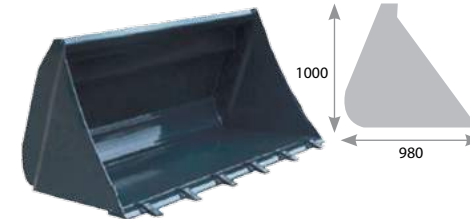
BUCKETS TO ANY TELEHANDLERS AND FRONTAL LIFTERS

Grain buckets



Nº p/p	Width, mm	Volume, m ³
1	1 400	0,8
2	2 200	1,4
3	1 900	1,5
4	2 500	2,0
5	2 500	2,2
6	2 700	2,4
7	3 000	2,75
8	2 500	3,0
9	2 900	3,5

Buckets for ground



Nº p/p	Width, mm	Volume, m ³
1	2 300	1,5
2	2 400	1,85
3	2 500	1,9

Buckets for high unloading



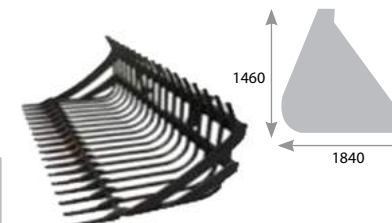
Nº p/p	Width, mm	Volume, m ³
1	2 200	1,8
2	2 500	2,2
3	2 600	2,4

Buckets with cutting grip



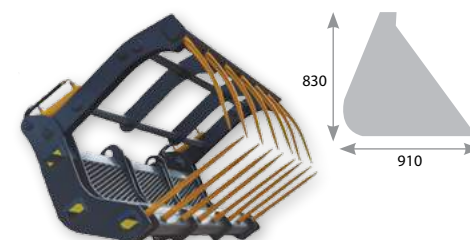
Nº p/p	Width, mm	Volume, m ³
1	2 200	1,6

Buckets for beetroot



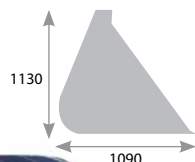
Nº p/p	Width, mm	Volume, m ³
1	2 800	4,0

Buckets with fork grib



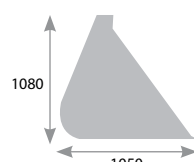
Nº p/p	Width, mm	Volume, m ³
1	2 400	1,8

Buckets for silo XXL



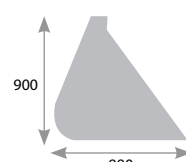
Nº p/p	Width, mm	Volume, m ³
1	1 800	1,6
2	2 400	2,8
3	2 800	3,5

Buckets for silo XL



Nº p/p	Width, mm	Volume, m ³
1	1 800	1,9
2	2 200	2,4
3	2 400	2,6
4	2 800	3,0

Buckets for silo L



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



Snow blade for tractor with 80 Horse Power



Snow blade for telehandler Merlo



Snow blade for tractor with 150 horse power



Road brush to tractor with 80 Horse power



SNOW BLADES FOR ANY TRACTOR AND TELEHENDERS

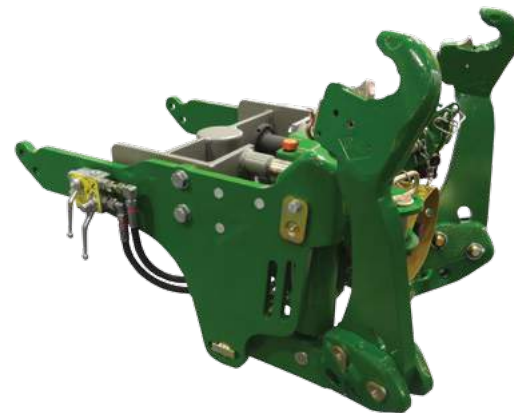
Model	Tractor/ Horse power needed	Total width, mm	Working width, mm	Thickness of armored rubber, mm	Shovel thickness, mm
BC-2400	80 H.P. and more	2 400	2 100	25	4
BC-2700	120 H.P. and more	2 700	2 340	35	4
BC-2700	Foton AE 1254	2 700	2 340	35	6
BC-3000	150 H.P. and more	3 000	2 600	35	6
BC-4000	More then 200 H.P.	4 000	3 600	35	6
BC-4000	Case, Claas, New Holland, John Deere, Fend, Massey Ferguson	4 000	3 600	35	6
BC-5000	more then 200 H.P.	5 000	4 600	35	6
ABC-3000	Snow blade for trucks	2 700	2 340	35	4

Basic equipment:

- maximal attack angle 30 degrees;
- rubber knife armored with wire.

Additional equipment:

- blade for ground;
- front hitch to tractor.



Front hithc to all kind of tractors

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