KOBZARENKO

GRAIN BAGGERS AND GRAIN UNLOADER

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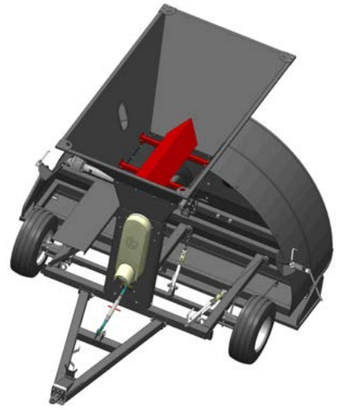
GRAIN BAGGERS

MODEL ZPM-180:
It is used for packing grain in multi-layer plastic sleeves.
Works from 80 hp tractor.
Grain baggers and tractor, under the pressure of the grain loaded into the receiver hopper, move forward, and the stuffed sleeve remains in its place. Grain baggers brakes help regulated sleeve tension.

Methodology of work:
1. Remove the ZPM-180 from the transport position to the working position.
2. Connect the cardan shaft and drawbar to the tractor.
3. Put the bag on the body of the grain bagger, fixing strogly the edge of the bag.
4. Turn on the braking system.
5. Start feeding grain.
6. Finish packing by fixing the edge of the bag.

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.



Slide to reduce pressure on the auger

Brake system pressure adjustment for each wheel separately

Raising/lowering the frame on which the sleeve lies - with a winch

Auger with reinforced edge

Metal plate - anchor

Bag tray regulation

A hand winch for bag lifting

ZPM (A) -180

MODEL ZPM(A)-180:
Grain bagger with electric motor is automobile. Thanks to the low receiving hopper, grain can be loaded from dump trailers and rear-loading vehicles.

Basic equipment:
- the mechanism for lifting and putting on the bag;
- towing ring Ø 40, 50 mm;
- tires size 10/75-15.3, 175-65 R13;
- tray for adjusting bag fixation;
- mechanical-hydraulic braking system to adjust the packing density;
- electric motor 18 kW

MODEL ZPM-180p:
A grain bagger with a lowered receiving hopper for packing grain, pulp, brewery waste and haylage with a lowered receiving hopper 2.7 m high, which allows you to feed pulp and beer waste with a bucket of a telescopic load, and additionally installed rollers prevent the mass from hanging.

Basic equipment:
- chassis: single-axle unit without springs;
- tires 10.0/75-15.3 - 2 pcs;
- anti-corrosion coating with polymer paint;
- the diameter of the feeding screw is 400 mm;
- bottom drawbar, diameter 50 mm, with mechanical support;
- drum brake system, drive mechanical screw;
- cardan shaft included

Rollers for pulp

MODEL ZPM-180PM:
Grain bagger with a lowered receiving hopper and a side-mounted additional hydraulically extendable auger for grain packaging. Grain can be fed using a chaser bin , a bucket with a frontend loader, or any trailer or vehicle with rear unloading.

Basic equipment:
- chassis: Single-axle unit without springs;
- tires 10.0/75-15.3 - 2 pieces;
- corrosion-resistant coating with polymer paint;
- diameter of the feeding auger 400 mm;
- diameter of the side auger 300 mm - height of the receiving hopper 1040 mm;
- drive for the feeding auger - tractor PTO, for the side auger - tractor hydraulic system through a hydraulic motor;
- lower hitch pin with a diameter of 40(50) mm, with mechanical support;
- drum-type brake system with a mechanical screw drive;
- separate wheel braking;
- cardan shaft included in complect

MODEL ZPM-360:
Grain bagger for grain in a 10-foot diameter bag (3000 mm diameter). Moveble with a swivelling hitch and additional wheels for transport using a pickup truck.

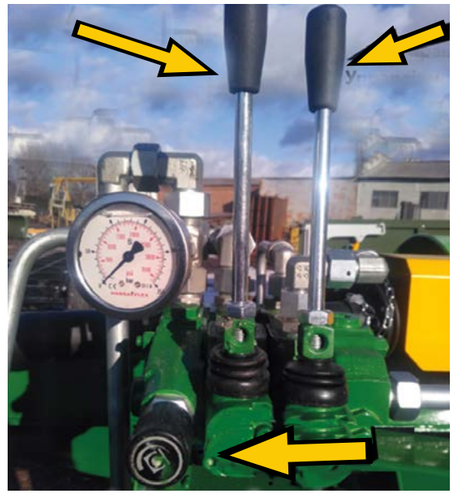
Basic equipment:
- chassis: Single-axle unit without springs;
- tires 10.0/75-15.3 - 4 pieces;
- corrosion-resistant coating with polymer paint;
- diameter of the feeding auger 600 mm;
- lower hitch pin with a diameter of 40(50) mm;
- drum-type brake system with a mechanical screw drive;
- separate wheel braking;
- cardan shaft included in complect.

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

GRAIN UNLOADER

	ZRM-180
Purpose	Unpacking
Productivity, t/h	180
Bag diameter, mm	2 700
Net weight, kg	2 900
External dimensions: length, mm	6 000
width, mm	6 500
height, mm	4 300
Recommended tractor power (hp)	80

auger control **winding control**



winding speed regulator

The height of discharge from the sleeves is 4.3 m.

MODEL ZRM-180:

Unpacking grain from sleeves with automatic winding on the clutch.

The bag winding mechanism consists of a reducer of the RT300 bag winding mechanism (production Italy), hydraulic drive and speed control valve of hydraulic motor There is also a clutch for quick release of the bag after unloading the grain from it.

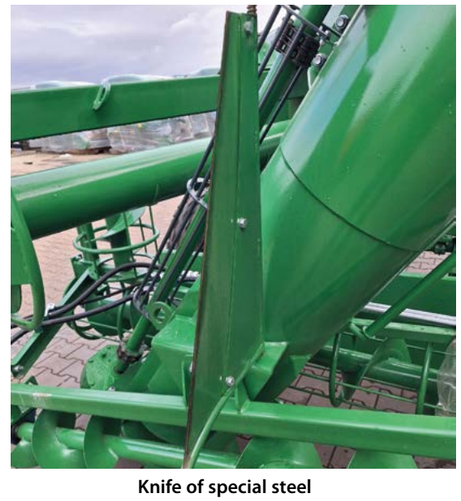
- Screws are driven through two gearboxes.

Methodology of work:

- unfold the machine (auger) in the working position, fix the mechanisms;
- unfold the operator's ladder;
- fixing and connecting the bag winding shaft;
- turn the knife and cut the bag, distribute evenly along the shaft.

Basic equipment:

- drive from tractor PTO 540 rpm;
- tires 14/65-16 go under the bag;
- drawbar of lower connection, towing ring Ø 50 mm;
- autonomous oil station to increase the flow lubricants on the hydraulic motor;
- transformation mechanism – turning the coil (without dismantling the wheels);
- unloading auger with a diameter of 400 mm;
- horizontal auger : diameter 300 mm;
- additional auger: diameter 250 mm. To increase the productivity on low-flowing cereals.



Knife of special steel

Additional horizontal auger for corn

Bag winding and removal mechanism

Additional oil tank with thermometer

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

Protective bump what prevent wheels from hitting on bag

Reloading grain in to grain carrier NRU-180

	NRU-180
Purpose	Unpacking, work on granary
Productivity, t/h	180
Bag diameter, mm	1 100 – 3 000
Net weight, kg	1 950
External dimensions: length, mm	6 100
width, mm	2 100 – 4 200
height, mm	4 200
Recommended tractor power (hp)	80

TECHNIQUE IN WORK

ZPM-180p Packing of grain in the Big Bag

Using the BNP-12 «Kovheg» for supplying of grain in the ZPM-180

Hydraulicaly-folding auger GRSH-300/4,5

Using the PBN-30 for supplying of grain in the ZPM-180

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