

ZLATNIK

NO-TILL SEED DRILL





ZLATNIK

GOLD OF YOUR FIELDS



Today the market of agricultural equipment offers various seeding complexes, and each has particular advantages. Manufacturers of agricultural products are primarily interested in precise seeding, strength, power and versatility of machines.

The ZLATNIK seed drill can be applied both for min-till and no-till technologies due to the seeding unit with reinforced double disc coulters. Fluted discs in front of each coulters enable operation with a lot of stubble remains.

It can be applied for different soil types and crops - small-seeded crops like poppy and rape, as well as soya and bean with no need to change or supplement the unit.

The machine can apply starter fertilizers simultaneously with seeding.

Application:

- seeding of grain and industrial crops (from poppy to bean);
- seeding under min-till and no-till technologies;
- application of starter fertilizers simultaneously with seeding.



Double disc coulters with shift and fluted disc

Heavy double disc coulters with a disc shift and front mounting of the fluted disc ensures precise seeding and fertilization to required depth under various conditions.

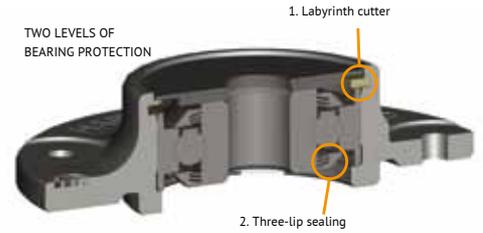
Fluted discs are protected by wrap spring which pressure is up to 250 kg.



Seeding depth adjustment

The depth of coulters disc movement can be adjusted by means of regulation mechanism.

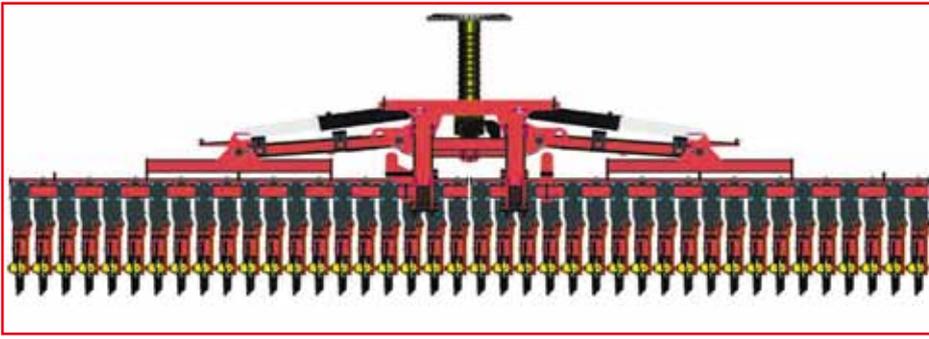
The weight of seeding unit, which is absorbed by one section, is 135 kg and can be increased by the tank's weight.



Unique bearing units

The ZLATNIK fluted discs and coulters discs are assembled with super-reliable maintenance-free HARP AGRO UNIT bearing units with extended service life. Multi-level protection, high-quality grease and massive forged housing provide reliability and durability in any operation conditions.





Uniform distribution of the seeding unit weight

Two semi-frames with working tools are mounted to the seeding unit frame wings by means of the pin joints, which uniformly distributes the seeding unit weight between semi-frames.

Row spacing of 15 cm provides uniform nutrition area.

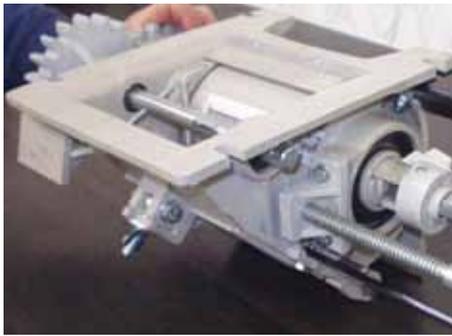
Such design eliminates imbalance of semi-frames from hydraulic cylinders, which is typical for other gang drills.



Seeding control

Seeding control system provides on-line control and immediately signalizes if any of coulters is blocked.





Smooth adjustment of seed rate

Seeding unit with infinitely variable seed rate provides rapid and precise adjustment of seed rate and/or application of fertilizers without timeconsuming changing of the drive sprockets.



Possible seeding of small-seeded crops

Seeding unit has also micro-seeding feature to seed the small-seeded crops (rape, grass etc.) with seed rate from 2,3 kg/ha.



Synchronization of seeding unit with seed drill

Seeding unit driven by the tank transport wheel provides precise synchronizing of the seeding unit rotation speed with the seed drill speed.

The seeding unit parts are made of corrosion-resistance materials, which eliminate loss of their function caused by corrosion.





Fan with enhanced productivity

Fan supplies pressured air to the seeding system. The air flow can be regulated by switching from F (min) to 5N (max).



Careful and fast seeds transportation system

Pneumatic system for distribution of seeds and fertilizers together with central tank allow significantly reducing of ineffective time for filling of separate tanks, eliminating their unequal filling

and, relatively, unequal devastation, as well as reducing time for the tank cleaning after seeding.

There is more time for seeding.





Advantages of modular design

Seed drill has modular design, consisting of the tank and seeding unit. The tank can be used both individually and together with other seeding units or tillage implements, which are equipped with the seeding units. The seeding unit can be matched with other tanks.

On request the tank module can be assembled with sphere-shaped drawbar.



Secure and spacious tank

Tank is made of special polymeric material with high resistance to ultraviolet and chemically aggressive media, thus it is absolutely corrosionresistant.

The tank is divided with volume of 2 and 3 m³, which allows applying seeds and fertilizers in various combinations.

Tanks have mesh filters to prevent penetration of foreign matters.



Simple and quick filling with seeds

The auger conveyor with hydraulic drive makes the filling of tank with seeds and fertilizers much easier.





Reliable marker



Mounting to different tractors



Safe transportation

Basic configuration includes a bout marker to help tractor driver orient in the field. The marker's disc is also mounted on the HARP AGRO UNIT.

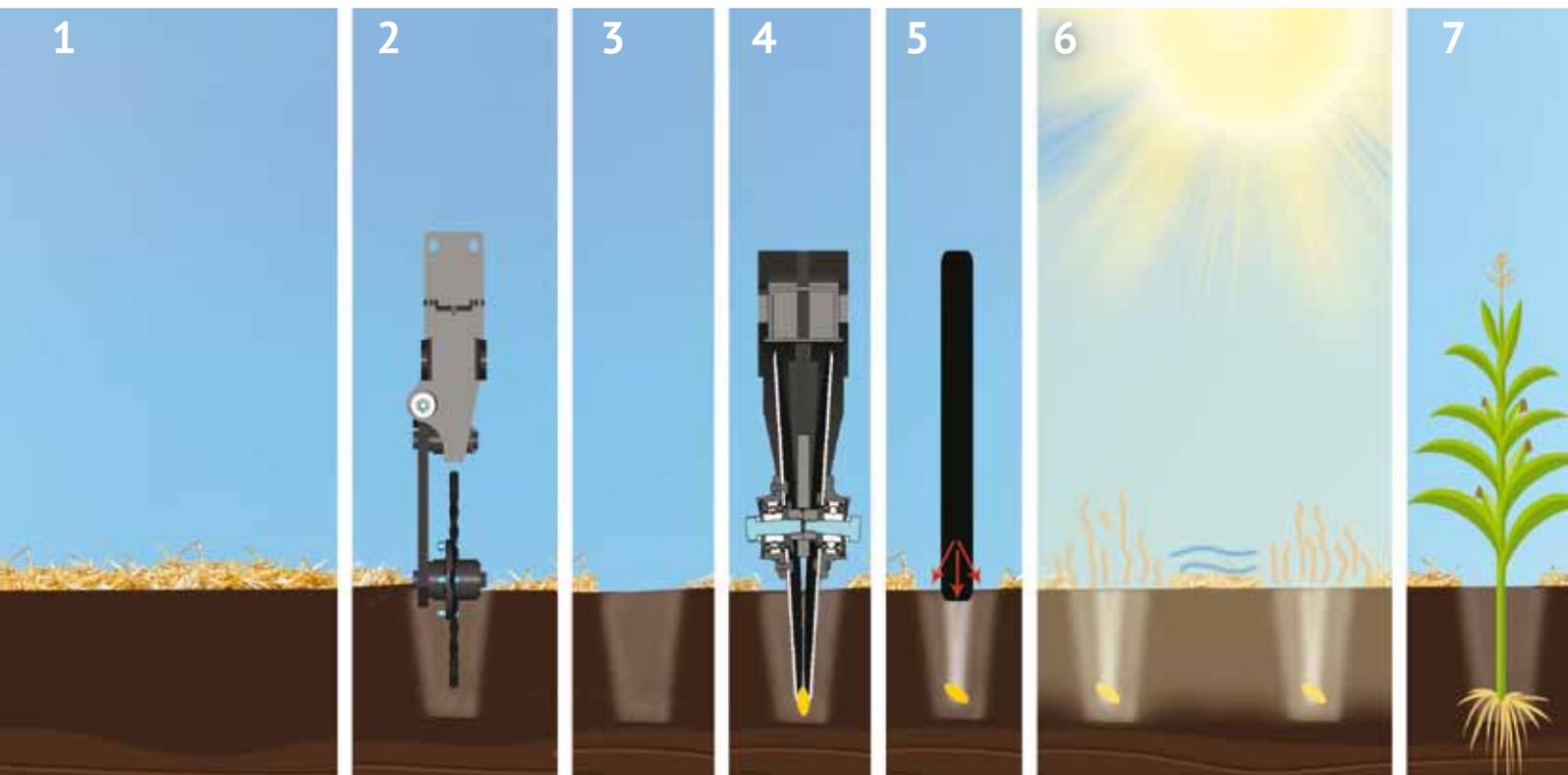
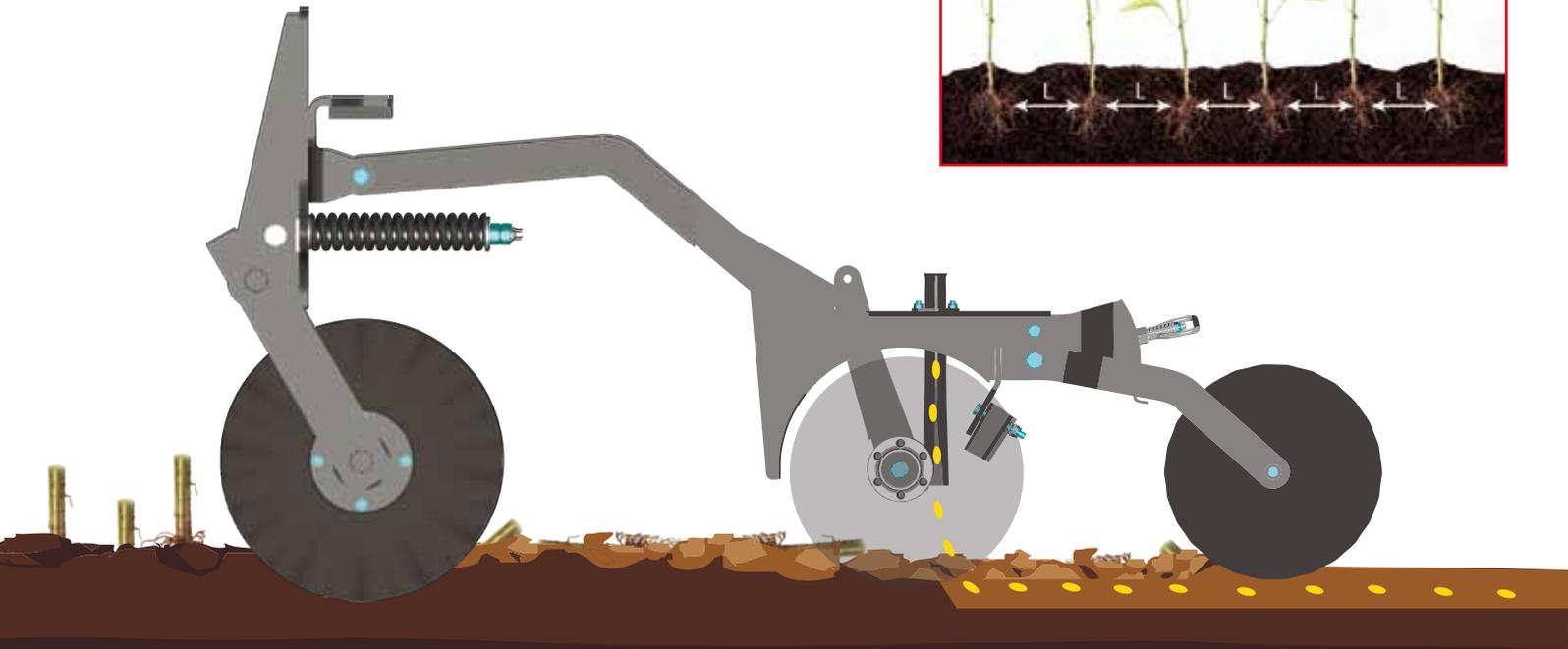
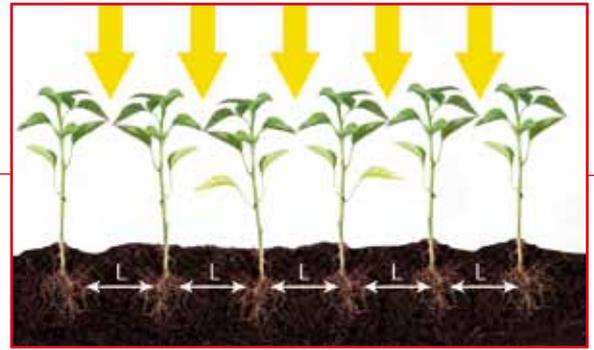
Fan driven by the tractor PTO shaft enables coupling with tractors having no good hydraulic take-off.

Seed drill is equipped with the brake system, mounted on the tank, for safe transportation and prevention of vehicle accidents.

TECHNICAL DATA

	ZLATNIK
Working width, m	6
Tractor power, hp	min. 160
Coupling with tractor	semi-trailed
Basic weight, kg	7080
Number of coulters, pcs.	40
Row spacing, cm	15
Volume of two-section tank, m ³	5 (3/2)
Seed rate, kg/ha	2,3...508
Seeding depth, cm	3...8
Operating speed, km/h	6...12
Efficiency, ha/h	max. 6
Fuel consumption, l/ha	6,0...7,5
Transport dimensions (length x width x height), mm	10570x3355x4055

SCHEMATIC SEEDING PROCESS



1. Prepared seedbed.
2. Cultivation with fluted disc proportionally to the coulters.
3. Soil is cultivated to the width of 2,5-4 cm with cut crop residues.
4. Seeding with double disc coulters.
5. Rolling the furrow.
6. Strip is optimally heated until even sprouts.
7. Created conditions of growth and development ensure high yield.

The main advantage of the ZLATNIK is that it ensures excellent quality of direct seeding and seeding on fields with a lot of crop residues.

When using no-till technology straw and crop residues stay in the upper layer and the seeds can fall not on the soil, but on the straw. In addition, the soil with a lot of plant residues is compacted badly. Therefore, when choosing the seeding equipment, special attention must be paid to the ability to provide high quality of seedbed preparation and seeds rolling.

Powerful seeding units ideally cope with mechanical treatment of soil and stubble. Seeds and fertilizers uniformly lay under the topsoil and lay down on the prepared seedbed. Press wheels provide rolling of seeded strips with any number of plant residues on the field. When rolling only seeded strips the spacing between rows is not rolled, which improves air exchange, reduces evaporation, prevents the weeds and soil crust formation.

As a result of seeding with ZLATNIK the sprouts are strong and even.



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