



 **ARPO·COIO3**



MACHINERY
for sustainable agriculture

SOYUZ-SPECTEKNICS LLC

ABOUT US



Soyuz-SpecTechnics LLC (part of Agro-Soyuz Holding) is a Hi-Tech machine building enterprise from Ukraine, which manufactures modern agricultural machines and equipment.

Our factory has enough capacity to manufacture high-quality metal products (parts, assemblies, units, metal structures and assembly units).

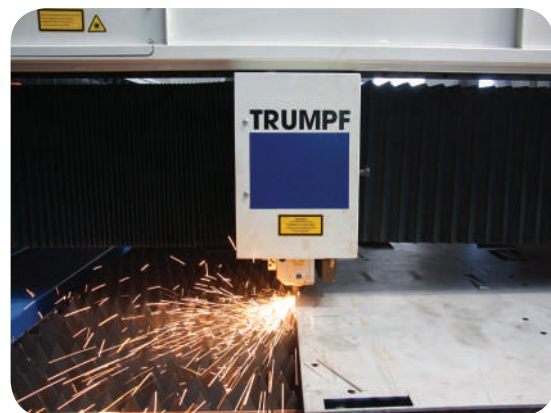
The product range of Soyuz-SpecTechnic's LLC includes innovative agricultural machinery for resource-saving farming technologies. First of all, these are air-drills with a working width ranging from 4 to 18 meters equipped with various types of openers (hoe-, disc and a combination of disc and hoe).

Totally, our enterprise manufactures more than 20 types of products.

Soyuz-SpecTechnics LLC builds the strategy of its development based on adoption of effective metal processing technologies using modern equipment and production management.

Production technologies and equipment:

- The area of manufacturing facility is 9000 m²
- Personnel: 140 workers and engineers
- Innovations. Home-based R&D Department.





When producing our machinery we rely on successful experience of innovative machinery manufacturers and consider the requirements of today's farmers.

The quality and reliability of the company's products is achieved due to availability of modern production shops with sophisticated equipment.

In the course of manufacturing process the following is used:

- accurate nesting on laser cutting and gas cutting work stations;
- bending and assembly on CNC-operated work stations;
- shot blasting on the tunnel-type equipment;
- welding in a medium of shielding gases using semi-automatic welding machines on turning frames (30 welding stations);
- different types of precise machining (turning, milling), welding, thermal treatment;
- application of paint and protection coating in a painting and drying chamber (the life of protection cover is equal to the operational life of a finished product).

The product undergoes hydraulic, electric and pneumatic testing before it is shipped to a customer.

Moreover, all the machines are tested at an agricultural enterprise under real field conditions before commercial production is started.

The service center of Soyuz-SpecTechnics LLC provides timely and high-quality service of agricultural machinery. Mobile service team repair machinery both in workshops and in field conditions. The repair and diagnostic shops are equipped with special equipment and tools to provide broad spectrum of services.

The company runs the inventory of OEM parts for domestic and foreign seeding and soil tillage machinery.

We consider what time dictates, try to satisfy the farmers' needs and strive to improve the quality, efficiency and reliability of our products. We trace the quality of component parts and work with reliable suppliers only.





TURBOSEM

Single-disc drills

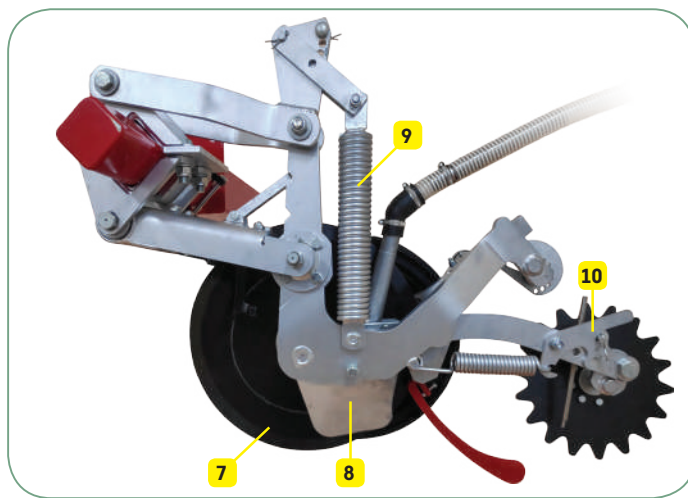
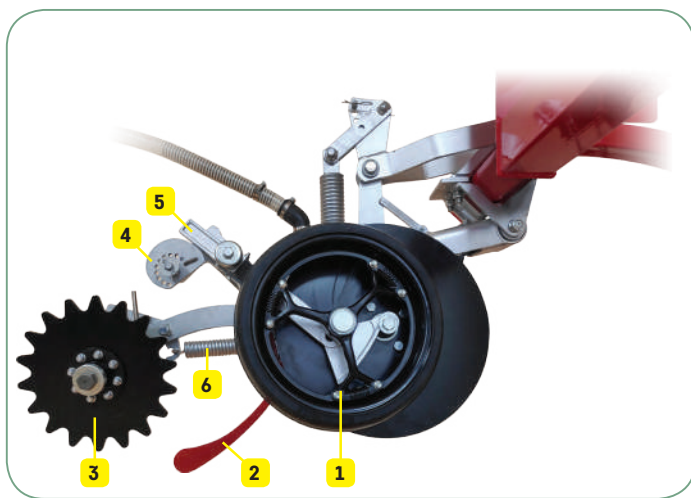
Proper selection of soil tillage technology is one of the major factors influencing yield establishment and profits. Sustainable conservation agriculture allows to obtain high yields today and simultaneously improve soil fertility for successful farming in future.

Wide Turbosem air-drills are improved direct seeding drills.

There are two types of **Turbosem** drills: wide drills **Turbosem II** (11.4 and 9.12 meters wide) and a compact drills **Turbosem** (3, 4.2, 6 and 7.63 meters wide).

ADVANTAGES

- They perform uniform seed placement due to the opener's design, which allows to follow the soil contour.
- The machine can place seeds regardless of previous soil tillage (conventional, mini-till and no-till).
- Suitable for different crops: cereals, small grains, row-crops.
- This machine is capable of applying dry fertilizers together with seeds and separately.
- Features high capacity and cost effectiveness along with simplicity and convenience in maintenance and use.
- Mobile and portable drills **Turbosem 19-16**, **Turbosem 19-22**, **Turbosem 19-32** and **Turbosem 19-40** feature low energy consumption. Thus, they can be pulled by tractors with a horsepower rating starting from as low as 100 h.p. This is an ideal solution for small farms.



THE OPENER

The opener of **Turbosem** drills is represented by a single-disc opener, which creates a V-furrow to place seeds and fertilizer with minimum soil disturbance.

The **open gauge wheel (1)** follows field undulations through parallel linkage. The **disc (7)** and the **hoe (8)** cut the V-furrow in the soil. These are made of high-quality boron steel and feature high wear-resistance. The disc runs at 11° angle to the machine's longitudinal axis. The permanently closed hoe is spring-pressed against the disc. Seeds are pressed into the soil by means of a **firming device (2)**, which is made of polymer material, featuring flexibility and wear-resistance. Finally, the **closing wheel (3)** running behind the disc, closes the seeds with loose soil. The wheel's teeth break compacted wall, which occurs upon cutting the soil by the disc. The down-pressure and the angle of attack of a closing wheel can be adjusted by a **spring (6)** and an **adjusting bar (10)**. The down-pressure can be adjusted by a **spring (9)** from 80 to 200 kg. The gauge wheel rests on the **eccentric cam (4)** via the **arm (5)**. Thus, the seeding depth can be adjusted from 1 cm to 11 cm. The increment of adjustments is 1 cm.

The opener is attached to the toolbar via the parallel linkage. This maintains continuous uprightness in relation to the soil during ground following. The hoe is aligned with a support gauge wheel, which ensures ideal ground following to maintain depth uniformity in the process of seed and fertilizer placement.

OPTIONS



Cast spoke support wheel with maintenance free bearing and metal scraper.

This wheel is intended for seeding depth adjustment; prevents residue plugging between the wheel disc and the cutting disc. The wheel is equipped with a hollow tire to prevent soil sticking.



Spring-loaded support wheel.

This wheel is intended for seeding depth adjustment; prevents residue plugging between the wheel disc and the cutting disc. Instead of rubber tire this wheel uses a coil made of spring steel to prevent soil sticking and residue plugging through vibration.



Closing wheels

◀ For No-Till and Mini-Till



◀ For conventional tillage and Mini-Till



The scraper on the disc acts to remove crop residues during seeding operation. This system allows to work in wet soils, creating favorable conditions for seeding and higher yields.

Even though this machine was initially developed for seeding cereals it can also seed row-crops. This is achieved due to a technological solution – blocking of every other opener and moving the front row of openers for split fertilizer application (sideways and under the seeds).

TECHNICAL AND OPERATIONAL SPECIFICATIONS OF TURBOSEM

	Turbosem 19-16	Turbosem 19-22	Turbosem 19-32	Turbosem 19-40	Turbosem II 19-48	Turbosem II 19-60
Working width, m	3	4,2	6	7.63	9.12	11.4
Number of rows with openers	2					
Number of seeding openers	16	22	32	40	48	60
Distance between openers, m	0.19					
Tank volume, liters	5 700		7 500		10 500	
Tank sections ratio (seeds/fertilizer)	60 / 40					
Type of fertilizer	Dry and fluid					
Transport width, m	3.0	4.2	4.35 (2.23 - wheel track)		5.50 (2.714 - wheel track)	5.50 (3.64 - wheel track)
Transport height, m	3.1		3.96		4.10	5.10
Weight of the machine, kg	3 200	3 600	9 750	10 500	10 330 (w/o the tank)	11 900 (w/o the tank)
Recommended seeding speed, km/h	8-10					
Required tractor power, h.p.	from 100	from 100	150-180	200-220	250-280	310-330



CROSS SLOT®

Disc-hoe drills

The **Cross Slot®** air drill is a machine of new generation, which was specifically designed for zero tillage.

The machine was built as a result of 30-year research of New Zealand researchers (Massey University) under the leadership of Prof. John Baker.

Cross Slot® implements its own unique approach, which is different from all other no-till drills. This machine puts seeds and fertilizer into the soil simultaneously. With that it allows to avoid seedlings' root burns; perform quality seeding even under heavy residues conditions without any surface disturbance.

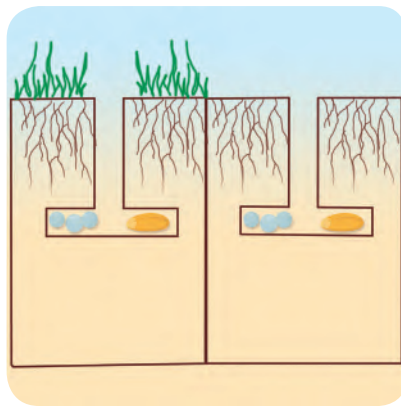
The main objectives of the machine are:

- minimum soil and residues disturbance (influence on soil health and the quality of its self-recovering),
- yield increase.

Unique features of the system are represented by the opener and the furrow shape that it makes. Unlike other drills that make vertical furrows, **Cross Slot®** makes horizontal slots. This creates optimum environment for seeds: the moisture stays in the furrow in the vapor form, especially if the soil surface is covered with crop residues.

Moreover, when the slot is created, the seeds are located under the horizontal wing of the soil and thus, they are constantly covered with the soil.

The **Cross Slot®** disc-hoe opener is unique. It combines all the advantages of both disc and hoe drills. The inverted «T» opener is the only known shape of the drill's opener that creates horizontal furrow with minimum soil disturbance.



The seeds and fertilizer are separated from each other during the seeding operation and fall on the opposite sides of the cutting disc. With that the distance between seeds and fertilizer is 2-3 cm. This results in maximum moisture retention and creates optimum environment for crop development. This allows to maintain the yield even in drought conditions.

The **Cross Slot®** openers enter the soil due to individual hydraulic cylinders. Each opener can be individually adjusted to ensure proper seeding depth.

The bunker for seeds/fertilizer consists of two sections equipped with individual meter, air system with hydraulic drive and an electronic seed flow control system.

Loading of seeds and fertilizer is performed from the top by any convenient means depending on the available loading equipment at the farm. This allows to reduce bunker loading time to 2-3 minutes.

Due to the hydraulic unit, the **Cross Slot®** drill can fold to reduce its size.

ADVANTAGES OF CROSS SLOT®:

- **Versatility.** Usually the direct seeding drills can work under specific agro-climatic conditions on leveled soils. **Cross Slot®** is unique because it is suitable for any soil and any surface. Moreover, the drill can seed all the crops!
- **Direct seeding without prior soil leveling** by tillage tools, which allows **to reduce costs and shift to zero tillage during the first year.**





- **Ability to copy the soil surface**, maintaining the uniform seeding depth. **This ensures accurate seeding depth control.**
- **Simultaneous application of seeds separately from fertilizer.** The opener «with wings» creates spatial barrier between the two walls of the furrow in the soil. This allows to put seeds to the one side, while fertilizer – to the other, ensuring sufficient horizontal separation.
- **The drill is not plugged with crop residues** even with narrow row-spacing and under different conditions: from dry crop stubble to tangled sod with developed roots, as well as in a broad range of soils: from soft and wet to hard and dry.
- **Self-closing of the furrow without over-compaction** that reduces crop emergence.
- **Reliability of operation and convenience of maintenance.** The replacement components are easily replaced in field, whereas durable, wear-resistant materials used in the joints and assemblies ensure highly reliable performance.

MAIN TECHNICAL AND PERFORMANCE SPECIFICATIONS OF CROSS SLOT® DRILLS

	Cross Slot 5 200	Cross Slot 10 200
Working width (m)	5.0	10.0
Bunker capacity (l)	5 000	10 000
Fertilizer to seed ratio in the bunker	60/40	
Weight (kg)	12 100	20 000
Number of seeding openers	25	49
Transport width (m)	2.55	5.55
Transport height (m)	3.36	4.7
Transport length (m)	9.65	9.65
Pulling power required per 1 opener, h.p.	13	



MD 19-40

Single-disc grain planter

Mechanic grain planter **MD 19-40** is a single-disc planter (the system is similar to that implemented in **Turbosem** drills) designed first of all to be used in the No-till system. The machine ensures quick and quality seeding at up to 9 km/h speed.

MD 19-40 is designed to seed cereal and small grain crops with a possibility of simultaneous application of fertilizer.

The machine is transported lengthwise, which improves logistics during seeding campaign due to reduction of external dimensions.

TECHNICAL AND OPERATIONAL SPECIFICATIONS OF MD 19-40

Working width, m	7.60	Transport width, m	4.6
Number of rows with openers	2	Transport length, m	11.00
Number of seeding openers	40	Transport height, m	3.4
Distance between openers, m	0.19	Weight of the machine, kg	10 000
Seed tank volume, liters	1 800 (2*900)	Recommended seeding speed, km/h	8-10
Fertilizer tank volume, liters	1 800 (2*900)	Required tractor power, h.p.	200-220
Small grain tank volume, liters	240 (4*60)		



MD 19-20

Single-disc grain planter

Meet our new product – mechanic No-till drill MD 19-20.

The new model features 3.8 seeding width, it is ideal for small areas and can be pulled by a small tractor (100 h.p. and up).

The drill also features a floating frame and its weight is distributed between three support wheels. This allows to control the drill's weight and adjust the load on openers. At the same time the drill is heavy enough to perform all technological operations under No-Till.

The seeding rate and fertilizer application rate can easily be adjusted via enclosed reducing gearbox.

TECHNICAL AND OPERATIONAL SPECIFICATIONS OF MD 19-20

Working width, m	3.8	Transport width, m	3.8
Number of opener rows	2	Transport length with a drawbar, m	6.2
Number of seeding openers	20	Transport height, m	2.5
Distance between openers, m	0.19	Weight of the drill, kg	6620
Capacity of seed bunker, l	900	Recommended working speed, km/h	8-10
Capacity of fertilizer bunker, l	900	Required tractor power, h.p.	from 100
Capacity of small-grain bunker, l	120 (2*60)		

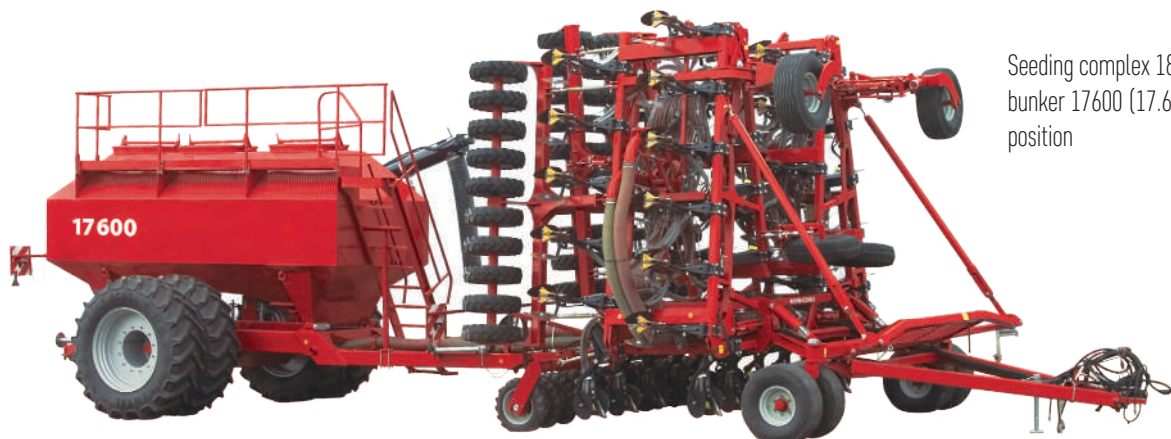


Hoe-opener seeding complexes

A seeding complex means all-purpose resource-saving machinery for conservation agriculture, which allows to obtain high yields, while restoring soil fertility for profitable farming.

The use of a wide-cut seeding complex allows to:

- Reduce seeding window: 3000-5000 ha per 10 days (optimum agronomic window);
- Reduce costs per hectare by 80% (fuel – 30%; fertilizer – 30%; machinery – 90%; labor – 3 times).



Seeding complex 18.35 with a grain bunker 17600 (17.6 m³) in transport position

TYPES OF OPENERS



The seeding complex allows to seed without preliminary soil preparation, apply dry and liquid fertilizer exactly below the seeding horizon and pack in one passage. Fulfillment of these operations in one passage results in reduction of soil compaction, shortening of seeding campaign and saving on fuel and lubricants.

The seeding complex consists of an air-drill with packing wheels and a grain bunker.

The seeding complexes are manufactured and supplied in three different working widths: 9.8 meters (9.35), 11.9 meters (11.35) and 18.2 meters (18.35) with four rows of openers. Each machine can be folded to 5.8 meters transport width by means of a hydraulic unit.

A grain bunker 10.5 m³, 12.1 m³, 17.0 m³ (two sections) or 12.7 m³, 17.5 m³ (three sections) is equipped with a self-loading auger, which allows to load grain into the bunker directly from a truck. The auger's capacity is 1.25 m³/minute.

The drill is equipped with pneumatic packing wheels, which can work under very wet conditions due to pressure adjustment and special tread design that ensures self-cleaning of the wheels.

Each furrow is packed by a corresponding packing wheel; at the same time uniform pressure is exerted on the soil over the whole width of the machine. This creates favorable conditions for germination of seeds.

The twin row opener («Duet») ensures uniform seeding in a 20 cm wide band and can deliver seeds to a depth of up to 7 cm into the soil increasing the area of sprouts nutrition 3-4 times thus increasing the yield in general.

This opener uses a system of simultaneous application of liquid or dry fertilizer. The system applies fertilizer 4-5 centimeters below the seeding horizon thus preventing the chemical burn of seeds. The opener can also apply seeds and dry fertilizers simultaneously thus reducing the costs of an agricultural producer.

The leveling discs installed on air-drill return the soil onto the furrow, which results in improved packing.

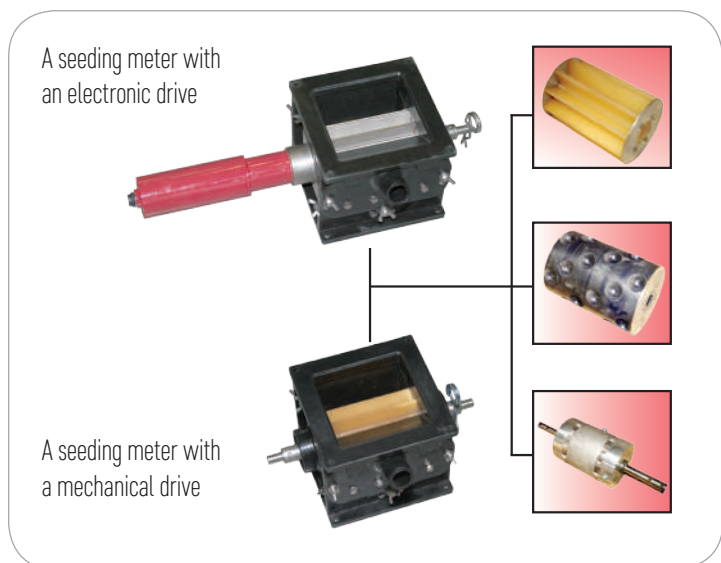
The drill is equipped with shanks which protect openers from breakages.

The body and the spring of the shank do not require servicing and adjustment during the whole period of air-drill use. The force for shanks actuation is 450 kg.

If fields are covered with a heavy layer of crop residues, the air-drills can be equipped with an optional cutting disc. The discs cut through large residues of corn and sunflower, ensuring quality seeding.



▲ An opener with a shank and leveling wheels (left);
A cutting disc (right) - optional



The major elements of a pneumatic seeds metering and distribution system are a meter and a seed flow control system. The housing of the meter is made of wear-resistant plastic. There are different rotors available for different types of seeds, which can be changed easily without tools and within several minutes.

A specially designed delivery channel of the rotor ensures good filling of its cells and accuracy of metering at different speeds of rotor spinning.

The seeding unit is roller fed. It is equipped with several exchangeable reels, which allow to seed different commodities (grain size from 1 to 10 mm) on different soils.

- Cereals (wheat, barley, oats, rye, triticale, sorghum, rice).
- Large seeds (corn, peas, beans, soybeans, sunflowers).
- Small seeds (grass mixtures, clovers, canola and alfalfa).

The metering system is manufactured in two options:

1) With a mechanical drive (from a wheel);

2) With an electronic drive supplemented with a system of electronic control and management, which includes a radar and an electronic dosing device called Drill Manager.

The seeds flow control system controls not only each seed pipe, but also each pneumatic hose for fertilizer application by means of special sensors installed on seed pipes, inside the grain bunker and on seeding meters. Information about plugging of seed pipes or failures of the seeding meter is shown on a display in the tractor cab. This makes diagnostics easier and eliminates empty spots.

The system allows to control the level of commodity in the grain bunker, improving logistics of seeding.



TECHNICAL AND OPERATIONAL SPECIFICATIONS OF HOE-OPENER SEEDING COMPLEXES

	9.35	11.35	18.35
Working width, m	9.8	11.90	18.20
Number of rows with openers	4		
Number of seeding openers	28	34	52
Distance between openers, m	0.35		
Tank volume, liters	10500		17600
Tank sections ratio (fertilizer/seeds)	60/40		40/30/30
Type of fertilizers (basic)	Granules / Liquid		
Size of tires of packing wheels	7.5L-16		
Transport width	5.8		
Transport height, m	4.1	5.1	5.1
Transport length, m	14.30		17.85
Recommended seeding speed, km/h	10–15		
Field efficiency, ha/motor-hour	7.2-11.2	9.5-14.2	14.6-21.8
Required tractor power, h.p.	320-350	410-435	500-535



Grain cart with fertilizer application option

The grain cart equipped with fertilizer application option allows to improve crop nutrition efficiency, while cutting expenses on fertilizer spreading.

This system allows to apply fertilizer to 3 - 28 cm together with main soil tillage (one or two depth layers).

It has practically been proved: According to Westco (USA) data, application of fertilizer together with deep cultivation guarantees fertilizer savings (4 times less).

In addition to cost savings this system results in yield increase! Targeted placement of K and P fertilizers at 12-18 cm depth (in fall) and nitrogen fertilizer at 4-6 cm depth (in spring) proved to be the most efficient for the root system of developing plants!

Agro-Soyuz is experienced in retrofitting tools for fall soil tillage with simultaneous fertilizer application (Gregoire Besson, Horsch Tiger, Vaderstad Top Down, Case Ecolo Tiger and others), which support the concept of targeted placement.

	10500 (2 sections)	12100 (2 sections)	12700 (3 sections)
Capacity (l)	10500	12100	12700
Width of the cart (m)	4.00		
Height (m)	3.70	4.0	
Height of loading port (m)	3.00	3.25	
Total length with hydraulic auger (m)	7.5	8.60	
Type of fertilizers	Dry		
Proportion of sections	60:40		40:30:30
Front section capacity (l)	6300	7300	5100
Rear section capacity (l)	4200	4800	3800
OPTIONS	Loading auger 10" driven by a hydraulic reversing motor		
	Delivery system to one distribution tower (one depth layer)		
	Delivery system to two distribution towers (two depth layers)		
	Seed control system		
	Weighing system DJ Star with a monitor (USA)		



ASC

Cultivators for solid soil tillage

Wide cultivators **ASC** allow to refuse intensive soil tillage and establish a mulch layer of crop residues on its surface. The surface soil tillage at 5-24 cm depth maintains water holding capillary layers, mixes residues with the soil and levels the field surface.

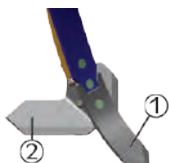
ADVANTAGES:

- High capacity – up to 400 ha per 24 hours;
- Mechanical weed control;
- Tillage depth – 5-24 cm;
- Maintains crop residues on the soil surface.

SELECTION OF CULTIVATOR BLADES



Sweeps are intended for surface soil tillage. The sweeps 370 mm and 410 mm (optional) wide enter the soil at 10-15 degrees angle and ensure full flat cutting (chisel bit effect) restoring the contact between the cut layer and the soil. This blade enters the soil even under very dry soil conditions.



Mulch-Mix blades (optional) are intended for deeper soil tillage. The tip of the blade (1) and its guide plate (2) are intended for soil loosening at the depth of up to 28 cm. They offer improved mixing of crop residues with the soil surface compared to other blades.

FEATURES OF THE SHANK:



- Maintenance-free friction bearings;
- Rotating elements can sustain high loads;
- High resistance to obstacles – up to 450 kg;
- High clearance of the frame – 750 mm;
- Obstacle avoidance – up to 250 mm high

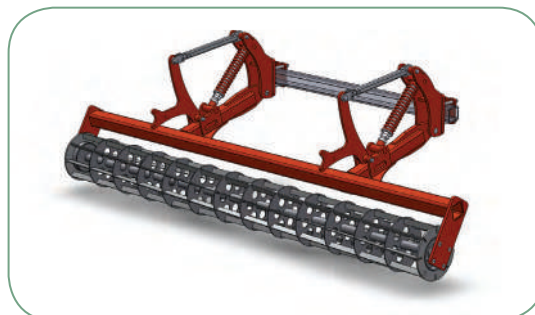


The **4-row mounting scheme** offers 1.2 m distance between the blade rows, maintaining 30 cm distance between the blades.

Shanks and stands prevent the blades from breakages. The force of shank's actuation is 450 kg.

The **3-row spring harrow** levels the soil surface, mixes crop residues and ensures their even distribution.

The cultivator can be equipped with a roller (option) ▶



The light-weight slat-and-rib roller

- breaks large soil clods (soil crumbling)
- levels soil roughness (pre-seeding soil leveling)
- firms and prepares the seedbed for seeds

It can be used in different soil and climatic zones, except for mountainous areas.

The rollers' slats run over the loosened soil, break soil clods and ensure even distribution of the soil across the cultivator's working width. This allows to avoid small furrows and ridges. During the pre-seeding tillage this stimulates soil water accumulation.

The roller's tools are represented by strips with a section of 40x6 mm.

The leverage mechanism on springs controls the downforce of the roller.

TECHNICAL AND OPERATIONAL SPECIFICATIONS

	ASC 5.30	ASC 9.30	ASC 12.30	ASC 18.30
Working width, m	4.8	9.3	11.70	18.30
Number of blade rows	4			
Number of cultivating blades	15	31	39	61
Distance between blades in a row, m	1.2			
Distance between cultivating blades, m	0.3			
Transport width, m	4.8	6.2		
Transport height, m	-	3.5	4.85	
Length, m	8.30			
Required tractor power, h.p.	220 (310*)	280 - 300	300 - 320	400 - 420

*In case of deep tillage (up to 25 cm)



ASC 12.30 equipped with a liquid fertilizers application system



ASCS

Cultivators for surface and medium-depth soil tillage

It is intended for soil tillage at 5-17 cm depth. It is suitable for all types of soils; can work on slopes of up to 20 degrees.

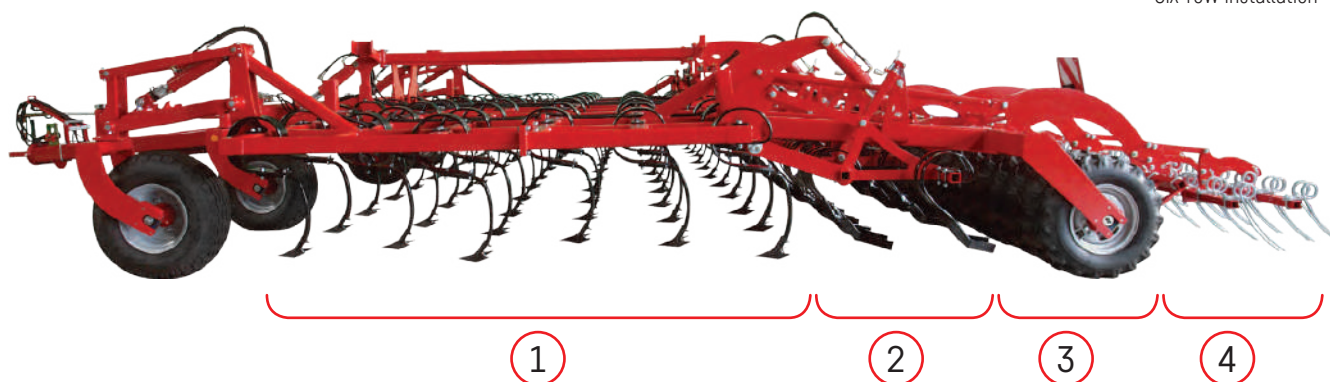
Irreplaceable during transition from conventional tillage to resource-saving technologies.

Its main objective is to level the soil surface.

ADVANTAGES OF ASCS:

- ✓ It performs 4 operations during one pass:
 - soil loosening
 - soil clods breaking
 - packing
 - soil surface leveling.
- ✓ Copes with crop residues:
 - ensures their even mixing and distribution
 - retains more than 80% of crop residues on the soil surface
 - no plugging
- ✓ It is suitable for all types of soils
- ✓ Performs mechanical weeds control





1 Working tools

The spring block “Goliath” can be equipped both with sweeps (180 mm wide) for surface soil tillage (up to 15 cm), and with chisel (55 mm wide) for medium to deep soil tillage (up to 17 cm) (option).

2 Dumpers

The dumpers are installed in two rows behind the working tools of the cultivator. They level the soil before packing. The working depth can be adjusted in a field by means of adjustment screws depending on the working conditions. All the screws should be adjusted to one depth.

3 Soil packers

The rear part of the machine rests on soil packers. The weight re-located to soil packers ensures optimum soil packing, soil clod breaking and surface leveling.

The scrapers are installed between the packer’s wheels. They prevent mud accumulation and protect the wheels from stones.

4 Rear spring harrow

The two-row spring harrow levels the soil behind the soil packer and ensures even distribution of crop residues. The tilt and the height of the harrow are adjustable.

MAIN TECHNICAL AND PERFORMANCE SPECIFICATIONS OF ASCS CULTIVATORS

	ASCS 9.15	ASCS 12.15
Working width (m)	9.15	12.3
Length, m	11.00	
Transport width (m)	5.4	
Transport height (m)	3.95	5.4
Total weight (t)	10.4	12.85
Number of rows	6	
Number of sweeps	61	79
Distance between sweeps in a row (m)	0.9	
Distance between sweeps (m)	0.15	
Minimum tractor power (h.p.)	250	340
Tractor power recommended for deep tillage (h.p.)	330	410



UW 200

Grain bunker-reloader

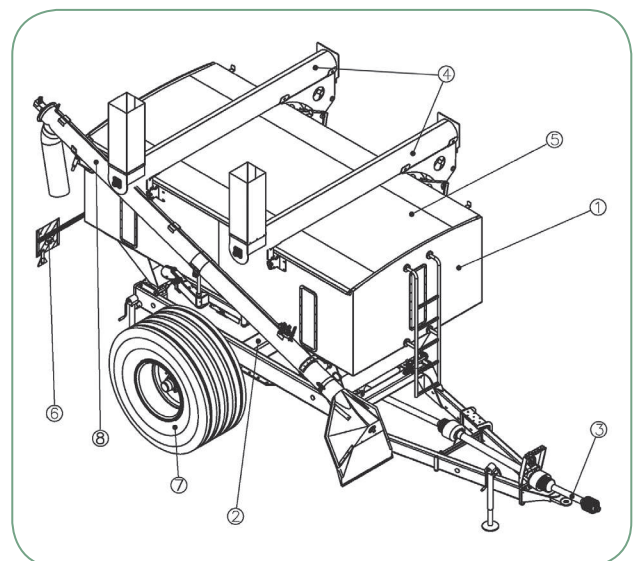
To improve logistics during seeding and harvest campaigns it is necessary that your machinery is fully loaded and all the down time events are avoided, since this results in qualitative and quantitative losses of yields. The grain bunker-reloader helps to solve this problem easily.

CHARACTERISTIC FEATURES OF THE DESIGN

The bunker-reloader **UW 200** is a 2-section trailer pulled by a tractor. It is equipped with high capacity unloading augers.

The design of **UW 200** includes:

1. Frame with a tank
2. Axle
3. Augers' drive
4. Two unloading augers
5. Tarpaulin roof
6. Marker lights
7. Wheels
8. Loading auger



The effect on the soil is one of the most important reasons for using **UW 200** under modern agricultural technologies in combination with capacity increase of air-drills and combines. The pressure of tractor's or bunker's tires on the soil is close to ideal and does not influence the yield of produced crops.

PURPOSE OF UW 200

During seeding: the 2-section tank of **UW 200** can accommodate up to 20 m³ of seeds and dry fertilizer. Large volume of the bunker's tank and high speed of seeds reloading into the air-drill's tank allow to increase productivity of seeding machinery by 20%.



During harvest: following the combine the **UW 200** accepts grain on the go. Then, it reloads it into a truck sitting on the field edge within several minutes.



TECHNICAL AND OPERATIONAL SPECIFICATIONS

Capacity of the tank, m ³ / t	20 / 18,7
Tank sections ratio	40 / 60
Capacity of the front (rear) section, l	8 000 (12 000)
Number of augers	2
Width of the machine, m	4.09
Height, m	4.05
Total length, w/o hydraulic auger (w/hydraulic auger), m	7.92 (9.03)
Axle spacing, m	5.66
Empty weight, kg	5 450
Loaded weight, kg	Up to 20000
Time for full loading of commodity, min	Up to 5
Augers' drive of UW 200	Mechanical from tractor's PTO (6 splineways)
Rotations of PTO, rpm	500
Brake system	Pneumatic
Requirements for the tractor:	
Minimum power, h.p.	190 and more
Minimum weight of tractor, kg	7 000 and more
The required number of hydraulic system outlets, pcs.	3
Availability of compressor on the tractor	Obligatory
Transport speed, km/h	Up to 40



AVZhU 2AC

Liquid fertilizer application unit

AVZhU 2AC is a tool, which applies aqua ammonia and liquid potassium fertilizer

- 2 tanks by 4.5 m³
- Piston pump
- Wheel drive

A SYSTEM OF LIQUID FERTILIZER APPLICATION

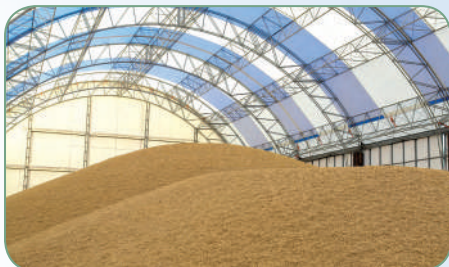
- Piping system (hoses, fittings, adapters, manifolds) with gate valves
- Possibility to change nozzles

TECHNICAL AND OPERATIONAL SPECIFICATIONS OF AVZhU 2AC

Full weight, kg	13900
Empty weight, kg	4900
Tank volume, liters	2 * 4500
Dimensions (Length / Width / Height), m	8.1 / 4.5 / 3.09
Maximum working speed, km/h	15
Maximum speed when empty, km/h	25
Application rate for aqua ammonia, l/ha	20-600
Discharge pressure, not exceeding kPa (kg/cm ²)	180 - 250 (1.8 - 2.5)
Front tires	1300*530-533
Rear tires	30.5R32
Required pulling power, kN (kilogram-force)	30 (3000)

QUICKLY BUILT TENT-COVERED HANGARS

- Livestock farms
- Manufacturing facilities, workshops
- Exhibition halls
- Gyms
- Agricultural and rotation workers' facilities
- Warehouses, storage facilities
- Administrative, office premises
- Service stations, garages, parking lots, sheds, etc.



Quickly built tent-covered hangars represent multi-purpose, mobile and versatile constructions that can substitute any premises. Construction time: from 3 to 30 days. Agro-Soyuz's hangars consist of high-quality metalwork and a very strong Canadian tent.

The structure can sustain any wind and snow loads; the hangar is resistant to UV, mold, it doesn't sustain burning and allows air and light penetration.

The quality and reliability of our hangars are confirmed by their successful use in virtually any climatic conditions of EU, Ukraine and CIS since 2001.

METALWORK OF ANY COMPLEXITY LEVEL

Soyuz-SpecTechnics offers to manufacture metalwork of any complexity level upon request for various industries:



- Machine-building (heavy engineering construction, agricultural machines, aircraft and ship engineering) – metal bodies, parts of machines and equipment;
- Trade and warehousing – retail equipment and its fasteners (racks, shelves, metal furniture).
- Construction of industrial and civil facilities – metal parts;
- Energy sector;
- Unit construction;
- Electronic engineering and instrument engineering – panels and housings.

The factory is equipped with advanced equipment for laser cutting and precision bending. It consists of assembly and welding facility, workshop for parts machining, painting and drying chamber and a facility for assembly and testing of finished products.



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