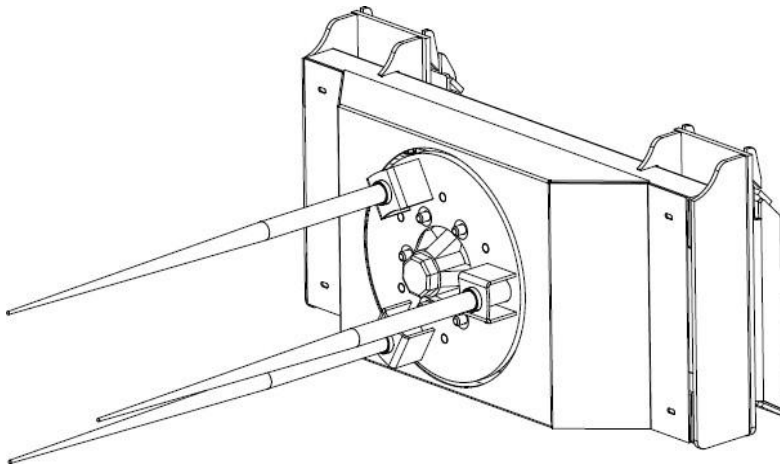




**Manual instruction
RBU Bale Unwinder**



November 2020

Admission

The operating instructions are the basic equipment of the machine. Before using the user, the user must read the contents of this manual and observe all recommendations contained therein. This will guarantee safe operation and ensure trouble-free operation of the machine. The machine was constructed in accordance with applicable standards and current legal regulations.

The manual describes the basic principles of safe use and operation of the machine.

The manufacturer reserves the right to introduce constructional changes in the machines manufactured to facilitate operation and improve the quality of their work without making current changes in this publication.

Work rules and safety

User safety

- The user should read the operating instructions carefully before use. During their operation, all recommendations contained therein must be observed.
- Use and operation of the machine may only be carried out by persons authorized to drive the vehicle and trained in operating the equipment.
- If the information contained in the Operator's Manual is difficult to understand, contact a seller who runs an authorized technical service on behalf of the manufacturer, or contact the manufacturer directly.
- Careless and improper use and operation of the machine, failure to comply with the instructions contained in this manual creates a health hazard.
- Be aware of the existence of a minimal risk of danger, therefore the use of safe handling principles and sound behavior should be the basic principle of using the machine.
- The machine must not be used by persons who are not authorized to drive the vehicle it is mounted on, including children, people under the influence of alcohol or other drugs.
- Non-compliance with the rules of safe use creates a risk to health for the operator and bystanders.
- It is forbidden to use the machine contrary to its purpose. Everyone who uses the machine in a manner inconsistent with its intended use takes full responsibility for all consequences resulting from its use.
- Use of the machine for purposes other than envisaged by the Manufacturer is inconsistent with the purpose of the machine and may void the warranty.
- The machine may only be used when all the safety devices including warning signs are technically sound and correctly positioned. If the safety elements are damaged or lost, they must be replaced with new ones.

Connecting and disconnecting the machine

- It is forbidden to connect the machine to the vehicle if the hydraulic oils used in the machine and the vehicle are of a different type and the mounting system of the machine is not compatible with the mounting system in the loader.
- Check the safety features after connecting the loader. Read the loader operating instructions.
- The loader with which the machine works must be technically sound and must meet the machine manufacturer's requirements.
- Exercise caution when connecting the machine to the loader.
- Nobody must be between the machine and the loader during coupling.
- Take special care when disconnecting accessories.
- The machine disconnected from the loader must be placed on level, sufficiently hard surface in such a way that it can be reconnected.

Plumbing system










- The hydraulic system is under high pressure during operation.
- Regularly check the technical condition of connections and hydraulic conduits. Oil leaks are not allowed.
- In the event of a hydraulic system failure, the machine must be taken out of service until the failure has been rectified.
- When connecting the hydraulic hoses of the loader, make sure that the hydraulic system of the loader and the machine is not under pressure. If necessary, reduce the residual pressure of the system.
- In the event of injuries being caused by pressurized hydraulic oil, contact a doctor immediately. Hydraulic oil can penetrate the skin and cause infection. In the event of contact of oil with eye, rinse with large quantity of water and in the event of the occurrence of irritation consult a doctor. In the event of contact of oil with skin, wash the area of contact with water and soap. Do not use organic solvents (gasoline, kerosene).
- Use oil recommended by the Manufacturer. Never mix two types of oil.

- Used oil or oil which has lost its properties should be stored in original containers or replacement packaging resistant to hydrocarbons. Replacement containers must be accurately described and properly stored.
- It is forbidden to store hydraulic oil in packaging intended for food storage.
- Rubber hydraulic hoses should be replaced every 4 years regardless of their technical condition.
- Repair and replacement of hydraulic system components should be entrusted to appropriately qualified persons.

Transport passage

- The maximum transport speed of 15km / h (i.e. unladen speed) must not be exceeded. Adapt your travel speed to road conditions.
- It is forbidden to transport people and animals in the machine.
- Lock the loader boom for unintentional use during transport.
- All journeys and arrivals during reloading should take place with the machine lowered down so that it does not obstruct the visibility and at the same time do not rub on the ground.
- It is forbidden to drive on public roads

Labels

<i>label</i>	<i>means</i>
	Warning! General warning sign - risk of danger
	Lateral crush warning
	Read the instructions
	Wear protective suit
	Wear protective suit Moving machine parts
	It is forbidden to stay under load
	It is forbidden to transport people on transport devices
	It is forbidden to repair the device in motion
	No lubrication of moving devices

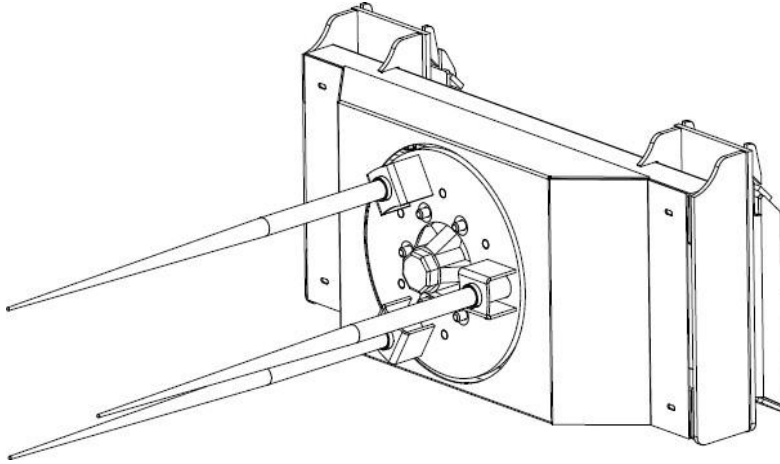
Construction and principle of operation

Technical characteristics

Table. Basic technical data

Name	-	Bale unwinder
Type		OB-01 -
Bale diameter	mm	1200-1500
Height	mm	550
Width	mm	710
Depth	mm	1350
Number of Spears	pcs	3
Weight	kg	180
Power		Hydraulic - 1 pair of quick couplings
Hydraulic system working pressure	MPa	18
The method of attachment		EURO

General construction



Picture . 1 General view

The bale unwinder is equipped with a hydraulic motor adapted to work with a vehicle with a power hydraulics system in the standard of rear and front mounts used in agricultural vehicles.

Basic suspension systems found in the bale unwinder:

- Hitch TUZ I, TUZ II
- EURO hitch - as standard
- Attach the mini loader and telescopic loader

The bale unwinder is made of a main body in which a hydraulic motor, front and rear covers as well as tightened teeth are mounted.

Using the machine

Machine assembly

Due to the need to connect two systems to the vehicle, installation should be carried out in the following order:

- Installation of the vehicle's mechanical system and machine.

Depending on the type of suspension system, original protection must be ensured. Check the wear condition of connecting elements: bolts and pins after each assembly.

- Hydraulic system assembly

The machine is equipped with wires that must be connected to the connectors of the vehicle power supply system. Particular attention should be paid to cable routing and cleanliness of hydraulic connections.

The machine is disassembled in the reverse order, with particular safety when dismantling the mechanical system that separates the device from the vehicle.

The device's hydraulic control system

The machine operation is controlled from the vehicle operator's cab. The machine is equipped with power hydraulic system terminals, which, when connected to the vehicle's hydraulic system, allow smooth control of its operation.

Service and maintenance

All operations related to the operation of the machine can be performed by the operator of the vehicle to which the implement will be mounted, provided that he is authorized to operate this vehicle.

The machine can be operated only after reading its operating instructions.

- **Service after work**

Each time after finishing work, the machine should be cleaned and placed on a flat, hard surface. After these operations, parts and assemblies should be reviewed. Damaged and worn parts should be replaced with new or remanufactured ones. Check all bolted connections and tighten loose connections. Keep all safety signs on the machine clean.

- **After-season service**

It covers all activities listed in the section after work service. In addition, the machine should be stored under a roof on a flat and hard surface. It is recommended to use wooden laths as a primer. Pay attention to the tightness of the varnish coat. In the event of cavities, these areas should be cleaned and the deficiencies filled by applying a fresh layer of protective paint.

- **Lubrication of movable joints**

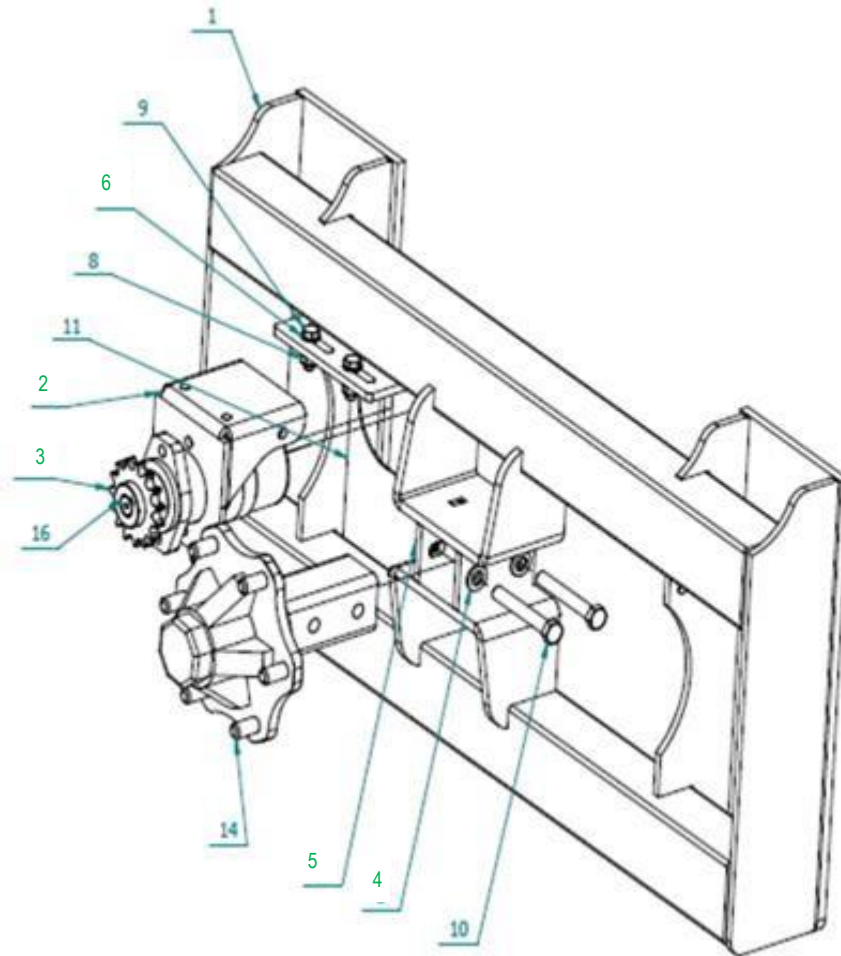
The basic maintenance is to lubricate the moving joints of the machine. All moving parts must be secured once a season with grease. Before lubrication, clean the connections of dirt and old grease. In the event of signs of wear, it is absolutely necessary to replace the worn parts with new ones.

Disposal of the machine

In the event that the machine becomes unusable to a degree that prevents further operation, it must be properly disposed of. This also applies to the replacement, or repair of damaged parts. Upon disposal, the machine must be thoroughly cleaned. Drain the operating oil and dispose of it. Then disassemble the machine by sorting parts according to the type of materials used. Sorted parts should be delivered to a scrap metal collection or disposal point. The machine is a fully environmentally friendly product. The materials used for production are 98% recyclable. Used machine parts must be disposed of in accordance with local environmental regulations. During the entire period of operation, care must be taken to prevent oil leaks that may cause environmental pollution.

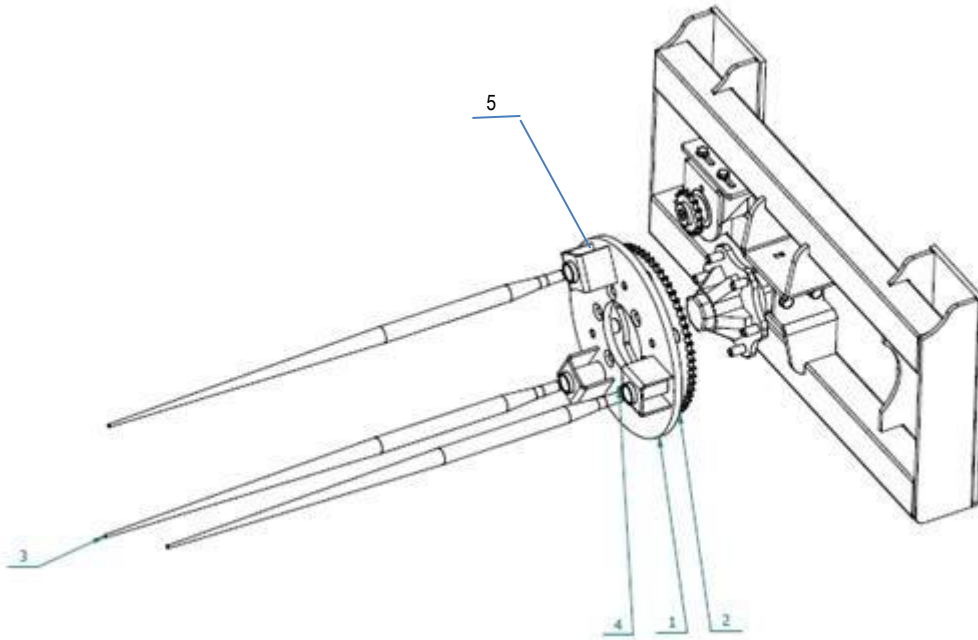
Spare Parts Catalog

Fig. 2. Machine body



No.	Name/Index	Quantity
1	RBUN1001- Frame- D601.01.00.00	1
2	RBU100M- Hydraulic Engine- D601.13	1
3	RBUN1003- Sprocket- D601.03.00.00	1
4	FW16- Flat Washer- M16	4
5	LN162- Self-locking Nut- M16 x 2.0	2
6	LN12175- Self-locking Nut- M12 x 1.75	4
7	LN12175- Self-locking Nut- M12 x 1.75	2
8	BM1217540- Bolt- M12 x 1.75 x 40	2
9	BM1620110- Bolt- M16 x 2.0 x 110	2
10	RBUN1010- Reinforcing Plate- D601.23	1
11	RBUN1011- D601.24	1
12	RBUN1012- Hub- O401.01	1
13	RBUN1013- SMB-160-2-A-D-GP	1

Fig. 3. Turntable with forks



No.	Name/Index	Quantity
1	RBUN2001- Mounting Plate - D601.02.00.00	1
2	RBUN2002- Large Gear- D601.14	1
3	RBUN2003- Bale Spear- Q202 – L-1100 M22x1.5	3
4	RBUN2004- D601.20	6
5	52028- Spear Nut- M22 x 1.5	3
6	RBUN2006- Hydraulic Hose	2

Note: Roller Chain (not shown) #60 x 68 links